



**747/767**

# **Powerplant Buildup Manual PW4000**

## **Scandinavian Airlines System**

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**POWERPLANT BUILDUP MANUAL**

Scandinavian Airlines System  
SAS  
Revision No. 74  
Jun 01/2009

To: All holders of this Boeing Document D6-35800-SAS

Attached is the current revision to the Boeing 747/767 PW4000 Powerplant Buildup Manual.

The Powerplant Buildup Manual (PPBU) is furnished either as a printed manual, on microfilm, or digital products, or any combination of the three. This revision replaces all previous microfilm cartridges or digital products. All microfilm and digital products are reissued with all obsolete data deleted and all updated pages added.

For printed manuals, changes are indicated on the List of Effective Pages (LEP). The pages which are revised will be identified on the LEP by an R (Revised), A (Added), O (Overflow, i.e. changes to the document structure and/or page layout), or D (Deleted). The pages that contain customer originated data will be identified on the LEP by a C (COC). Each page in the LEP is identified by Chapter-Section-Subject number, page number and page date.

Pages replaced or made obsolete by this revision should be removed and destroyed.

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## **POWERPLANT BUILDUP MANUAL**

### TEMPORARY REVISIONS

Remove any Temporary Revisions that have a date earlier than the date of this revision.

Do not remove any Temporary Revisions (TRs) that have a date later than the date of this revision. TRs with a later date will be incorporated into the next revision of the manual (unless they are superseded by a subsequent TR).

A TR status report is sent with each TR. The TR status report has a list of all TRs that were sent for this manual during the last two revision cycles. At the top of the list is the date and time that the list was created.

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# **TRANSMITTAL LETTER**

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## POWERPLANT BUILDUP MANUAL

### Location of Change

### Description of Change

FRONTMATTER

Removed the section titled "Delivery of Data in Digital Format".

CHAPTER 71

71-00-02

FIGURE 8-3

Changed the consumable material bulk reference code for the lubricating OIL.

FIGURE 11-1

Changed the consumable material bulk reference code for the lubricating OIL.

71-00-03

FIGURE 1-

Changed the footer title from QEC Systems Tests to QEC Inspection/Check.

# HIGHLIGHTS

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A = Added, R = Revised, O = Overflow, D = Deleted, C = Customer Originated Change

**EFFECTIVE PAGES**













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# POWERPLANT BUILDUP MANUAL

## INTRODUCTION

### 1. General

- A. The 747/767 PW4000 series Powerplant Buildup Manual provides procedures for installing Boeing QEC Kit parts on a PW4000 series engine.
- B. The manual is divided into four major sections: 71-00-00 Introduction and Indexes, 71-00-01 Accessory Assembly, 71-00-02 Powerplant Buildup, and 71-00-03 QEC Inspection/Check.
  - (1) Section 71-00-00 describes major characteristics of the powerplant, use of the manual, a list of special tools and equipment, vendor names and addresses, consumable materials, and a summary of applicable standard practices.
  - (2) Section 71-00-01 contains parts lists and procedures for preassembly of certain QEC components installed as maximum convenience units during buildup.
  - (3) Section 71-00-02 contains parts lists and procedures to build up a basic engine into a demountable powerplant.
  - (4) Section 71-00-03 QEC Inspection/Check contains general inspection/check procedures for QEC components.
- C. Abbreviations and terms used in this manual are defined in the following table:

**Table 1:**

<b>ABBREVIATION</b>	<b>DEFINITION</b>	<b>ABBREVIATION</b>	<b>DEFINITION</b>
ASSY	Assembly	LWR	Lower
BRKT	Bracket	MAX	Maximum
BTWN	Between	MIN	Minimum
CL	Centerline	MNFLD	Manifold
CSK	Countersink	MTG	Mounting
DIFF	Differential	OPT	Optional
DIM	Dimension	OUTBD	Outboard
ECS	Environmental Control System	OVHT	Overheat
ELEC	Electrical	PNEU	Pneumatic
ENG	Engine	PRESS	Pressure
FLG	Flange	PW	Pratt & Whitney
FTG	Fitting	QAD	Quick-Attach-Detach
FURN	Furnish(ed)	QEC	Quick Engine Change
FWD	Forward	QTY	Quantity
GSE	Ground Support Equipment	R/B	Replaced By
HORIZ	Horizontal	REF	Reference
HYD	Hydraulic	SYS	Systems
IDG	Integrated Drive Generator	SW	Switch
		T/W	Together With
		TEMP	Temperature
		UPR	Upper
		VLV	Valve

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ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
INBD	Inboard	W/B	Wire Bundle
INSTL	Installation	XDCR	Transducer
INSTR	Instrument	XMTR	Transmitter

**Table 2:**

TERMS	DEFINITION
Basic Engine	The assembled engine as furnished by the engine manufacturer.
Powerplant	Basic engine with QEC equipment installed.
QEC Equipment	Airframe manufacturer supplied parts installed during powerplant buildup.
Run-On Torque	Torque required to check self-locking features of nuts or nut plates.

**2. Description**

A. PW4000 Series Basic Engine

- (1) The PW4000 series engine is a two-spool, axial flow, high bypass ratio turbofan. A two-stage high pressure turbine drives the 12-stage high pressure compressor. A five-stage low pressure turbine drives the fan and four-stage low pressure compressor. The accessory drive system extracts energy from the high pressure high-speed rotor to drive engine accessories and engine mounted airplane accessories.
- (2) Accessory items pertaining to engine operation such as fuel control unit, fuel pump, oil tank, oil fuel filters, oil pump, and other necessary equipment are supplied and installed by Pratt & Whitney Aircraft. Installation procedures for these items are contained in the Pratt & Whitney PW4000 series Engine Manual.
- (3) Identification of engine flanges is presented in Figure 1 Fig. 1.

B. Demountable Powerplant

- (1) The demountable powerplant consists of the Pratt & Whitney PW4000 series basic engine and Boeing QEC kit parts.
- (2) Principal physical characteristics of the powerplant are approximately:

**Table 3:**

ITEM	WEIGHT	LENGTH	DIAMETER
Basic Engine	9350 lb	150 in.	92 in.
Turbine Exhaust Sleeve	201 lb	58 in.	33 in.*
Turbine Exhaust Plug	46 lb	32 in.	26 in.
Inlet Cowl	665 lb	55 in.	104 in.
Demountable Powerplant	11065 lb	263 in.	104 in.**
* Exit diameter.			
** Maximum diameter.			

(3) QEC Equipment

- (a) Accessory items installed on the engine are supplied by Boeing in the form of a QEC (Quick Engine Change) equipment kit.

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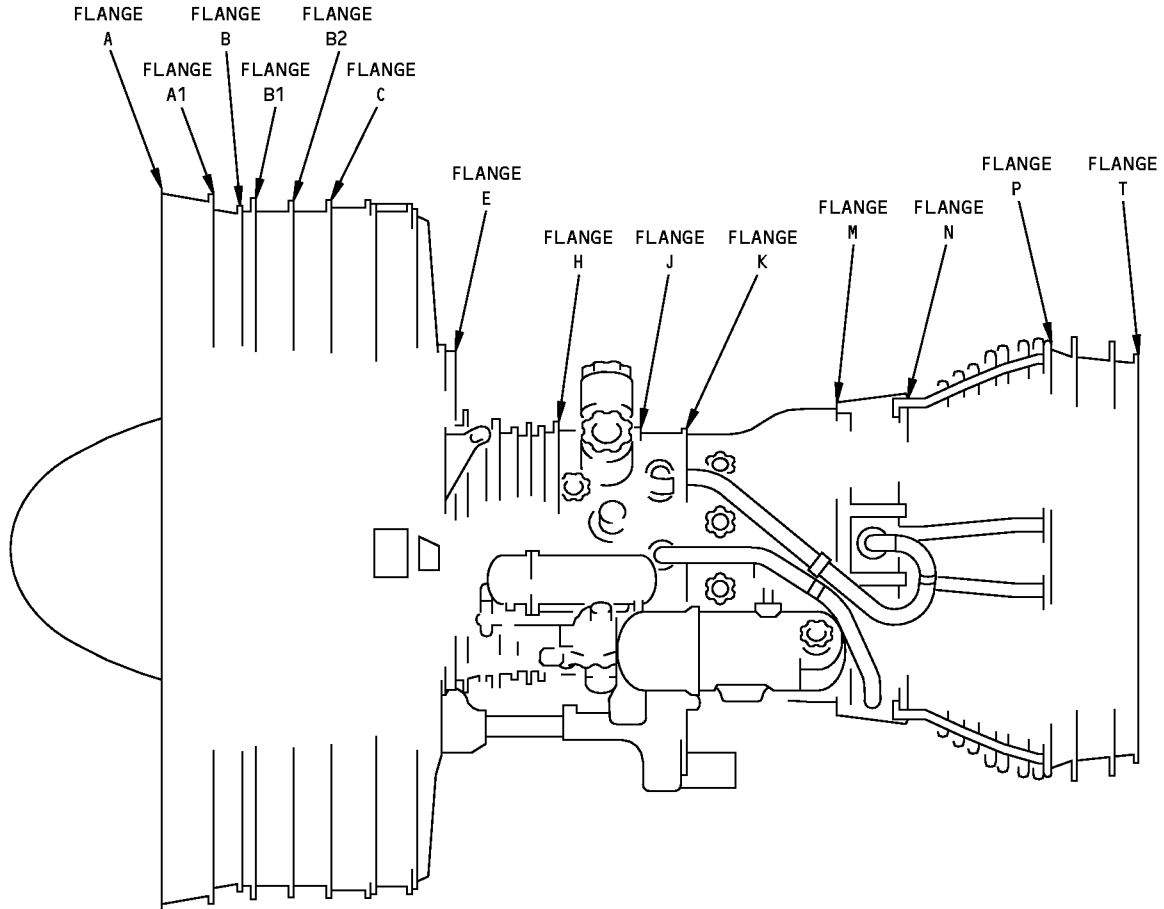
Contact Boeing Customer Services-Spares for the correct kit part/dash number. Procedures for installing this equipment are contained in this manual.

- (b) QEC kit parts are packaged in a series of sub-kits/tasks identified in the Special Spares Breakdown - Powerplant document issued by Customer Support, Spares. These sub-kit/task numbers are reflected in the figure numbers of 71-00-02 (see paragraph 4).
- (c) The following installations comprise the QEC kit:

**Table 4:**

<b>INSTALLATION</b>	<b>DWG NUMBER</b>
ENGINE MOUNT	310T4020
MARKERS	310T4070
CONTROLS	315T3050
ANCHOR V-BAND	315T3207
INTERFACE DUCT - COOLING AIR INLET	332T3261
HYDRAULIC HOSES	332T4110/332T4150
HYDRAULIC PUMP	332T4120
IDG	332T4210
IDG PLUMBING	332T4230/332T4150
ELECTRICAL WIRE HARNESS	332T4240/332T4250
STARTER	332T4310
8TH AND 15TH STAGE MANIFOLD AND DUCT	332T4320
ECS CONTROLLER	332T4340
ACCELEROMETER	332T4420
OIL PRESSURE XMTR; LOW OIL PRESSURE SW	332T4451
OIL QUANTITY XMTR	332T4452
OIL FILTER DELTA P SWITCH	332T4453
FUEL FLOW XMTR	332T4460
FUEL PRESSURE XMTR	332T4461
ACCESSORY COOLING	332T4470/332T4150
FIRE DETECTOR	332T4510/332T4250
LOWER THERMAL RADIATION SHIELD	332T4520
FIRE EXTINGUISHING	332T4530/332T4150
ENGINE OVERBOARD DRAINS	332T4710/332T4150
DRAIN COLLECTOR	332T4712
SURGE BLEED EXHAUST DUCT	332T4719
GEARBOX BREATHER SEAL	332T4730
FUEL HOSE	332T4800/332T4150
BRACKET	332T4920/332T4900
PRIMARY EXHAUST	333T4000
INLET COWL	334T4000

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**Engine Flange Location  
Figure 1**

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### 3. Instructions for Using Manual

#### A. Page Numbering

- (1) Pages are numbered consecutively, starting with 1 in each of the subdivisions of the manual. The subdivision titles appear above the page number of each page.
- (2) Section 71-00-00 is subdivided into Introduction, Procedures Index, and Numerical Index. Section 71-00-01 is subdivided into individual figures of Accessory Assembly procedures. Section 71-00-02 is subdivided into individual figures of Powerplant Buildup procedures.

#### B. Figure and Item Numbers (71-00-01, 71-00-02)

- (1) Figure numbers are assigned to individual segments of buildup in order of accomplishment. Figures in 71-00-02, Powerplant Buildup, utilize a two-part number, the first part of which correlates to the QEC Sub-kit number in which the parts for that figure are supplied.  
Exception is PW4000 SERIES POWERPLANT WITH QEC INSTALLED/Figure 1-1 which is an index figure for 71-00-02.
- (2) Item numbers are assigned to parts, wherever possible, in order of installation. The part listing with item numbers and nomenclature appear on the text pages immediately following the applicable steps for installation of the parts. Each figure is a complete procedure and contain its individual set of item numbers.
- (3) Item numbers preceded by a dash (-) in the FIG. ITEM or ITEM NO. column indicates the item is not illustrated.

#### C. Locating a Part

- (1) If a part number is known and it is required to locate the part, find the part number in the Numerical Index, section 71-00-00, and note the section, figure and item number in which it is used.  
Locate the figure and identify the item number on the text page facing the illustration.
- (2) If the part number is not known, but the system or general area on the engine is known, then it may be possible to locate the applicable figure from the alphabetical listing of installations in the Installation Index, 71-00-00, or from the sequential listing in figure 1-1, 71-00-02.
- (3) BCREF ( ) - (Boeing Company Ref) part number is a reference number assigned to all part numbers that exceed 15 digits.
  - (a) The actual part number is included in parenthesis after the part name in the nomenclature column.
  - (b) When ordering these parts from Boeing, use either the BCREF ( ) part number or the actual part number.

#### D. Use of Assembly Procedures

- (1) Assembly procedures assume engine is supported on floor pedestals, PWA25757 (3) and PWA25758 (1) or overhead sling, A71008.
- (2) Use of alignment jig is recommended to ensure correct alignment of ducts and tubing, and adequate wire bundle lengths prior to installation of engine to strut.
- (3) Each area of work or procedural sequence is illustrated with the instructions and parts list on the facing page. Parts are listed immediately following the procedural step in which they are installed.
- (4) Vendor codes are listed for vendor parts in the parts list nomenclature. A list of vendors, their codes and addresses is provided in paragraph 6.

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- (5) Special torque requirements are specified where applicable. When torque values are not specified, standard torque tables will apply.
- (6) Consumable materials, such as lubricants, sealants and tapes specified in buildup procedures are listed in the 71-00-00 with specification or vendor source and areas where they are used.

### E. Terms Used In Procedure

- (1) AR - Parts with AR (AS REQUIRED) in the QTY (quantity) column can be used as required.
- (2) DEL. - Parts with DEL. (DELETED) in the UC (usage code) column, and a dash in the QTY (quantity) column should not be used or reinstalled.
- (3) OPT - Parts with OPT (OPTIONAL) in the nomenclature column, OPT in the UC (usage code) column, and a dash in the QTY (quantity) column are optional and interchangeable with the same item number listed with a quantity. Part numbers listed with a quantity are preferred, and should be used if available.
- (4) REF - Parts with REF (REFERENCE) in the UC (usage code) column and a dash in the QTY (quantity) column have been previously called out.
- (5) REPLD BY - Parts with REPLD BY (REPLACED BY) in the nomenclature column, LTD (LIMITED) in the UC (usage code) column, and a dash in the QTY (quantity) column have been installed on production engines and supplied with early QEC kits. These parts should no longer be used or ordered for a new QEC kit installation. Parts having the same item number with a quantity are improved versions or are necessary due to basic engine changes and are supplied in later QEC kits.
- (6) VEN - Parts with VEN (VENDOR) in the UC (usage code) column are vendor part numbers.

### 4. Standard Practices

- A. Before starting engine buildup, read applicable sections of this manual to become familiar with items to be installed and procedures to be followed. Also, review Standard Overhaul Practices Manual (D6-51702) for additional information on standard practices, specifically the following:

Table 5:

Standard Overhaul Practices	
Title	Manual Chapter
Repair of electrical terminations and electrical bonding areas	20-11-03
Fluid System Fitting Torque Values	20-50-00
Bolt and Nut Installation	20-50-01
Installation of Safety Devices	20-50-02
Bearing Installation and Retention	20-50-03
Installation of Permanent Drill Passage Pin and Plug	20-50-04
Application of Aluminum Foil and Other Markers	20-50-05
Installation of O-Rings and Teflon Seals	20-50-06
Lubrication	20-50-07
Application of Dry Lubricant	20-50-08
Installation of Protective Grommets	20-50-09
Application of Stencils, Insignia, Silk Screen, Part Numbering and Identification Markings	20-50-10
Application of Aerodynamic Smoothing Sealant	20-50-11

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(Continued)

Standard Overhaul Practices	
Title	Manual Chapter
Application of Adhesives	20-50-12
Application of Weather, Fuel Oil, Solvent and Heat Resistant Protective Coatings	20-50-13
Cleaners	20-60-01
Finishing Materials	20-60-02
Lubricants	20-60-03
Miscellaneous Materials	20-60-04

### B. Lubrication

- (1) Lubricate O-ring packings with petrolatum prior to installation unless specified otherwise.
- (2) Apply grease or anti-seize compound to splines as specified.

### C. Floating Clamps

- (1) Floating clamps are utilized to establish adequate clearance between tubing, hoses, and wire bundles to dampen vibration and prevent chafing.
- (2) Illustrations which show clamping for wire bundles, tubing and hoses show floating clamp installations in approximate clamping locations.
- (3) Actual clamp locations may be adjusted from those illustrated and additional clamps may be used to provide required clearances. A minimum clearance of 0.5 inch is desirable however, 0.2 inch is permissible where 0.5 inch cannot be obtained.

### D. Electrical Harness

- (1) Position electrical harness between connectors to provide equal distribution of support loading on clamps. Maintain sufficient slack at connectors to prevent preloading the connection. No wire ties should be under clamps.
- (2) When using BACC10GU( ) and BACC10HS( ) clamps, do these steps:
  - (a) Wrap wire bundles with tape at each clamping position to provide optimum clamping condition and prevent abrasion of wiring during service.
    - 1) When attaching a wire bundle on the fan case, wrap the bundle under the clamp with Scotch 70 tape as required to prevent slippage.
    - 2) When attaching a wire bundle on the core case, wrap the bundle under the clamp with Permacel P421 tape or optionally P440 tape. Wrap the wire bundle a minimum of 2 times.
    - 3) If the wire bundle diameter is such that the clamp does not firmly grip the wire bundle, wrap the bundle with additional tape to obtain a proper grip.
- (3) When using TA025041-( ) clamps, there is no requirement to wrap tape on the wire bundle under the clamp.
  - (a) If the wire bundle diameter is such that the clamp does not firmly grip the wire bundle, wrap the bundle with tape to obtain a proper grip.
    - 1) Wrap the bundle under the clamp with Permacel P421 tape or optionally P440 tape. Wrap the wire bundle a minimum of 2 times.

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- (4) Electrical connectors are to be tightened hand tight. When specified electrical connectors must be tightened to torque values provided in the buildup procedures.
- (5) Install protective covers for connectors and receptacles not connected. Lockwire all threaded connectors after installation.
- (6) Wire bundles shall have a maximum tie spacing of 2 inches. Tie bundles with lacing tape. Make ties using a clove hitch and square knot or a clove hitch and surgical knot (Figure 2). For addition information on tying requirements refer to Wiring Manual, 20-10-11.

### E. Tubes and Fittings

- (1) Proper alignment must be obtained between fittings and tubing to prevent preloading of lines and assure proper mating of threaded parts.

**Table 6:**

<b>FLUID TUBING MINIMUM CLEARANCE REQUIREMENTS: (UNLESS NOTED OTHERWISE)</b>	
BETWEEN ALL RIGID LINES AND ADJACENT STRUCTURE	
0.50 INCH	- AT NON-SUPPORTED LOCATIONS
0.10 INCH	- AT SUPPORTED LOCATIONS (OR THE THICKNESS OF THE SUPPORTING CLAMPS WHEN THE TUBING IS CLAMPED DIRECTLY TO THE SUPPORTING STRUCTURE)
NEAR ANY POSITION OF AN OPERATING MECHANISM	
0.50 INCH	- AT NON-SUPPORTED LOCATIONS
0.25 INCH	- AT SUPPORTED LOCATIONS WHEN IT IS EVIDENT THAT NO CHAFING OR INTERFERENCE WILL RESULT
BETWEEN TUBES THAT CROSS OR RUN PARALLEL	
0.50 INCH	- OR THE THICKNESS RESULTING FROM BACK-TO-BACK CLAMPING (ADDITIONAL BACK-TO-BACK CLAMPING MAY BE USED TO MEET MINIMUM CLEARANCE REQUIREMENTS)
BETWEEN TUBES AND CONTROL CABLES	
0.625 INCH	- BETWEEN BREAK POINTS OR FAIRLEADS AND CLAMPBLOCK

**NOTE:** Tubing installations shall be considered supported for a distance of 3 inches from a B-nut that attaches a tube to a rigid piece of equipment.

- (2) Allowable preload shall not exceed the following limits at clamp points when end fittings are attached and torqued.

**Table 7:**

Tube Size	Max. Preload
5/8" & Larger	20 lbs.
1/2"	10 lbs.
3/8"	5 lbs.
1/4"	3 lbs.

- (3) Up to three BACS18AF spacers may be used under support clamp to meet preload limitations.
- (4) All tubing 1/2 inch or smaller must be installed with two BACC10GT2-( ) clampshells where loop type clamp is used. Do not use BACC10GT2-( ) clampshells on 1/2 inch tubing when TA027016-08 loop type clamps are installed.

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## F. Safety Devices

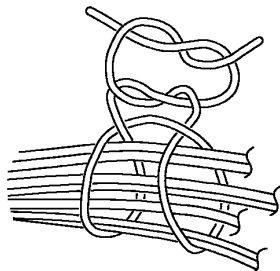
- (1) Perform all lockwiring using double twist method per procedures in 747/767 Standard Overhaul Practices Manual, 20-50-02 and Standard Industry Practice.
- (2) Use of safety cable in place of lockwire is allowed when specified in the applicable installation. Safety cable can only be used with 0.250 inch or smaller bolts which have center drilled heads. Refer to Standard Overhaul Practices Manual 20-50-02 for usage instructions.

**CAUTION:** EXTREME CARE MUST BE TAKEN TO PREVENT CONTAMINATION FROM ENTERING THE PNEUMATIC DUCTS, FLUID LINES, DRAIN LINES AND ENGINE PORTS.

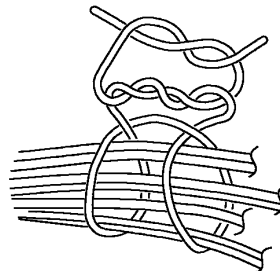
- G. Cap all open ports and lines with shop approved devices if equipment is to be left unattended or disconnected for extended periods.

**CAUTION:** DO NOT STEP ON WIRE BUNDLES, TUBING, DUCTS, AND OTHER ENGINE COMPONENTS. DAMAGE TO EQUIPMENT WILL RESULT.

- H. Use adequate ladders and workstands when installing components.



CLOVE HITCH WITH SQUARE KNOT



CLOVE HITCH WITH SURGICAL KNOT

**Wire Bundle Tying  
Figure 2**

**5. Part Substitution**

- A. Preferred parts are listed first and are applicable to the engine buildup configuration which was installed on the most recent engine configuration to be delivered.
- B. Replaced by parts should not be used on new engines but may be required for buildup of previous engine configurations.
- C. Optional parts are listed immediately below the preferred part and may be used in place of preferred parts.
- D. Optional parts may be ordered if preferred parts are not available.

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E. The following table lists obsolete part numbers for standard parts. These obsolete parts are no longer preferred and should not be ordered.

**Table 8:**

<b>OBSOLETE PART NUMBER</b>	<b>PREFERRED PART NUMBER</b>
AN6289J6	AS5179J06
AN924-10J	AS5178J10
AN924-12J	AS5178J12
AN924-4J	AS5178J04
AN924-6J	AS5178J06
AN924-8J	AS5178J08
AN960-416	NAS1149F0463P
AN960C10	NAS1149C0363R
AN960C10L	NAS1149C0332R
AN960C4	NAS1149CN432R
AN960C416	NAS1149C0463R
AN960C416L	NAS1149C0432R
AN960C516	NAS1149C0563R
AN960C616	NAS1149C0663R
AN960C716	NAS1149C0763R
AN960C916	NAS1149C0963R
AN960C1016	NAS1149C1063R
AN960C1216	NAS1149C1290R
AN960C1416	NAS1149C1490R
AN960C1716	NAS1149C1790R
AN960D10L	NAS1149D0316H
AN960JD10	NAS1149D0363J
AN960JD10L	NAS1149D0332J
AS136-08-0120	AS136-08N0077L
AS136-08-0120	AS136-08N0120L
AS136-08S0080	AS136-08N0080L
AS136-12-0094	AS136-12S0094L
AS136-12-0140	AS136-12S0140L
AS137-08-0063	AS137-08N0063L
AS138-04-0071	AS138-04N0071L
AS138-06-0076	AS138-06N0076L
AS138-06S0065	AS138-06N0065L
AS138-08-0086	AS138-08N0086L
AS138-08-0095	AS138-08N0095L
AS3236-06	BACB30ZF3-06

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<b>OBSOLETE PART NUMBER</b>	<b>PREFERRED PART NUMBER</b>
AS3237-11	BACB30ZF4-11
BACC13AT3A18	AS3510-0218L
BACE21AW0606M	BACE21BT0606JN
BACE21BT0606J	BACE21BT0606JN
BACN10JC3C	BACN10HR3C
BACN10JC4C	BACN10YR4C
BACT16AS121208J	BACT16BL121208J
BACT16AS160612D	BACT16AS160612W
BACT16AS241620D	BACT16AS241620W
BACW10P5C	BACW10P5CC
MS21042L3	BACN11AG3
MS21042L4	BACN11AG4
MS35842-11	BACC10JB022C040
M83248-1-112	AS3209-112
M83248-1-216	AS3209-216
M83248-1-233	AS3209-233
M83248-1-906	AS3208-06
M83248-2-904	AS3581-904
M83248-2-906	AS3581-906
M83248-2-908	AS3581-908
M83248-2-910	AS3581-910
M83248-2-912	AS3581-912
NAS1352N08H10	BACS12HM08AHU10
NAS1611-111	NAS1611-111A
NAS1611-212	NAS1611-212A
NAS1612-16	NAS1612-16A
NAS1612-20	NAS1612-20A
NAS1612-8	NAS1612-8A
NAS1716C12M	BACC10HT12
NAS1716C14M	BACC10HT14
NAS1716C17M	BACC10HT17
NAS1716C28M	BACC10HT28
NAS1716C40M	BACC10HT40
NAS1761J0606	BACE21BR0606JN
NAS1761J1010	BACE21BR1010JN
NAS1761J1212	BACE21BR1212JN
NAS1762J0404	BACE21BT0404JN

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<b>OBSOLETE PART NUMBER</b>	<b>PREFERRED PART NUMBER</b>
NAS1762J0808	BACE21BT0808JN
NAS1762J1010	BACE21BT1010JN
NAS1762J1216	BACE21BT1216JN
NAS1763J060606	BACT16BR060606JN
NAS1764J040404	BACT16BT040404JN
NAS1764J121212	BACT16BT121212JN
NAS1801-3-21	BACS12HN3-21
NAS1801-3-35	BACS12HN3-35
NAS1801-3-9	BACS12HN3-9
NAS1802-04-6	BACS12HN04U6
NAS1802-3-10	BACS12HN3U10
NAS1802-3-16	BACS12HN3U16
NAS1802-3-18	BACS12HN3U16
NAS1802-3-21	BACS12HN3U21
NAS1802-3-5	BACS12HN3U5
NAS1802-3-6	BACS12HN3U6
NAS1802-3-7	BACS12HN3U7
NAS1802-3-8	BACS12HN3U8
NAS1802-3-9	BACS12HN3U9
NAS1802-4-6	BACS12HN4U6
NAS1802-4-7	BACS12HN4U7
NAS1802-4-8	BACS12HN4U8
NAS1802-4D8	BACS12HN4U8D
NAS1804-4	BACN11Z4CD
NAS1805-10	BACN11Z10C
NAS1805-20P	BACN11Z20C
NAS1805-3	BACN11Z3C
NAS1805-3P	BACN11Z3C
NAS1805-4	BACN11Z4C
NAS1805-4L	BACN11Z4CD
NAS1805-4P	BACN11Z4C
NAS1805-6	BACN11Z6C
NAS1805-6P	BACN11Z6C
NAS1922-0050-1	NAS1922-0050-3
NAS6703-12	BACB30LM3-12
NAS6703-16	BACB30LM3-16
NAS6703U1	BACB30LM3U1

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<b>OBSOLETE PART NUMBER</b>	<b>PREFERRED PART NUMBER</b>
NAS6703U2	BACB30LM3U2
NAS6703U3	BACB30LM3U3
NAS6703U4	BACB30LM3U4
NAS6703U5	BACB30LM3U5
NAS6704-1	BACB30LM4-1
NAS6704-10	BACB30LM4-10
NAS6704-11	BACB30LM4-11
NAS6704-16	BACB30LM4-16
NAS6704-4	BACB30LM4-4
NAS6704-5	BACB30LM4-5
NAS6704-6	BACB30LM4-6
NAS6704-8	BACB30LM4-8
NAS6704H4	BACB30LM4H4
NAS6704HU1	BACB30LM4HU1
NAS6704U1	BACB30LM4U1
NAS6704U16	BACB30LM4U16
NAS6704U2	BACB30LM4U2
NAS6704U3	BACB30LM4U3
NAS6704U4	BACB30LM4U4
NAS6704U5	BACB30LM4U5
NAS6705H6	BACB30LM5H6
NAS6705U2	BACB30LM5U2
NAS6706-36	BACB30LM6-36
NAS6706-43	BACB30LM6-43
NAS6706U6	BACB30LM6U6
NAS8703U2	BACB30ZE3U2

### **6. Publication Change Requests**

- A. Communication concerning this publication should be directed to the Boeing Commercial Airplane Group; Attention: Maintenance Engineering Technical Services, M/S 2J-02; P.O. Box 3707; Seattle, WA 98124. To facilitate uniform handling and to provide direct routing of your questions to the proper Boeing organization, use of The Publication Change Request (PCR) form is encouraged. Boeing makes this form available through your publications organization.

### **7. Consumable Material Lists**

The tables that follow list all of the consumable materials used in this manual.

A separate table will be shown for each different material code. The data in the table is then sorted by the bulk reference number.

- The first set of tables contain all the standard consumable materials.
- The second set of tables contain all the engine consumable materials and will include the engine manufacturers reference number.

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**Table 9: Adhesives, Cements, Sealants**

Reference	Description	Specification	Material	Supplier
A00027	Adhesive - Silicone Rubber, 1 Part, RTV	BAC5010, Type 60	RTV 102	71984
A00160	Sealant - Firewall - Hydraulic Fluid Resistant	BMS5-63		
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS 5-95		

**Table 10: Cleaners, Polishes**

Reference	Description	Specification	Material	Supplier
B00074	Solvent - Degreasing	MIL-PRF-680 (Supersedes P-D-680)		
B00148	Solvent - Methyl Ethyl Ketone (MEK)	ASTM D740		
B00571	Coating - Clear Hydraulic Fluid Resistant Topcoat	BAC5710, Type 41		

**Table 11: Finishing Materials**

Reference	Description	Specification	Material	Supplier
C00259	Primer - Chemical And Solvent Resistant Finish, Epoxy Resin	BMS10-11, Type I		

**Table 12: Lubricants (Oils, Greases, Dry Lubes)**

Reference	Description	Specification	Material	Supplier
D00006	Compound - Antiseize Pure Nickel Special - Never-Seez NSBT-8N	MIL-PRF-907F	Never-Seez NSBT-8N	5W425
D00015	Grease - Aircraft Bearing (Use BMS 3-24 until existing stocks are depleted, BMS 3-33 supersedes BMS 3-24)	BMS3-24 (Superseded by BMS 3-33)		
D00054	Fluid - Hydraulic Assembly Lubricant - MCS 352B (Formerly Monsanto MCS 352B)		MCS 352B	1CHP6
D00068	Oil - Aircraft Turbine Engine, Synthetic Base	MIL-PRF-23699F, Class STD (Standard)		
D00109	engine, synthetic base	MIL-L-7808		
D00153	Fluid - Hydraulic, Erosion Arresting, Fire Resistant	BMS3-11 Type IV (interchangeable & intermixable with Type V)		

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Reference	Description	Specification	Material	Supplier
D00254	Compound - Silicone	SAE AS8660 (NATO S-736) (Supercedes MIL-S-8660)	DC-4	71984
D00504	Grease - Petrolatum	VV-P-236		
D50004	Compound - Antiseize	BMS3-28	ARMITE LF-AS 328	81205

**Table 13:** Miscellaneous Materials

Reference	Description	Specification	Material	Supplier
G01048	Lockwire - Corrosion Resistant Steel (0.032 In. Dia.)	NASM20995C32		
G01912	Lockwire - Monel (0.032 In. Dia.)	NASM20995NC32 (QQ-N-281)		
G02437	Cable, Safety Kit	AS3510-01()K		
G02473	Cable, Safety Kit	AS3510-03()K		
G50375	Kit - Safety Cable, 321 CRES - 0.032 Inch (0.81 mm) Diameter, (Contains both Cable and Ferrule)	BACC13AT3K, AMS 5689	BAC~ C13AT3K	70958

**Table 14:** Miscellaneous Materials - Pratt and Whitney

Reference	Engine Mfr Reference	Description	Specification	Material	Supplier
G50003	P05-287	Lockwire - Corrosion-Resistant Steel, 0.020 inch (0.508mm) Diameter	NASM20995~ C20		

**8. Tool Lists**

Refer to the tables below for the complete applicability before you use a tool.

The tables that follow show all of the tools that are referred to in this manual.

There is a table for each type of tool. The data in each table is sorted by the GSE requirement identifier.

- The table for Standard Tools shows the standard tools.
- The table for Commercial Tools shows the tools that are commercially available.
- The table for Special Tools shows the tools that are manufactured for specific requirements.
- When there is a fourth table, it shows the airline-specific tools.

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Table 15: Special Tools

Reference	Description	Part Number	Supplier	A/P Effectivity
SPL-1570	Fixture - Lift, Engine Accessory, 250 Pound Limit	A71015-107	81205	747-400, -400ER, -8, -8F, -ALL
		Opt: G24011-1	81205	747-100, -200B, -200C, -200F, -300, -400, -400ER, -400ERF, -400F, -400LCF, -400SF, -ALL
SPL-7908	Flush Cart - Engine IDG Cooling System, CF6-80C2, PER BOEING SPEC. DRAWING A71040	83707	10000	747-300, -400, -400ER, -400ERF, -400F, -400LCF, -400SF, -8, -8F
		9829-0012	05172	747-300, -400, -400ER, -400ERF, -400F, -400LCF, -400SF, -8, -8F

#### 9. Supplier List

The table that follows lists all of the suppliers that are referenced in this manual.

The table is sorted by the suppliers CAGE code.

#### VENDOR CODES

Code	Name
00624	EATON AEROQUIP INC ENGINEERED SYSTEMS DIV 300 S EAST AVE JACKSON, MICHIGAN 49203-1972 FORMERLY AEROQUIP ELBEE PLANT V99879 OR WESTERN PLANT V70128; FORMERLY AEROQUIP AEROSP DIV JACKSON PLANT; FORMERLY V11328 AEROQUIP LINAIR DIV; LAWRENCE PLANT V26622

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<b>Code</b>	<b>Name</b>
02697	PARKER-HANNIFIN CORP SEAL GROUP O-RING DIV 2360 PALUMBO DRIVE PO BOX 11751 LEXINGTON, KENTUCKY 40509 FORMERLY V17506 IN CLEVELAND, OHIO FORMERLY PARKER SEAL CO OF PARKER-HANNIFIN CORP O-RING DIV
04967	FASTENER SPECIALTY INC 2435 109TH STREET GRAND PRAIRIE, TEXAS 75050
05172	AAI CORPORATION 404 INDUSTRIAL ROAD PHILADELPHIA, MS 39350-4256 Telephone: (360) 477-4698 Facsimile: (360) 477-4699
06710	LAMSON AND SESSIONS CO THE VALLEY-TODECO 12975 BRADLEY AVENUE SYLMAR, CALIFORNIA 91342-3830 FORMERLY VALLEY BOLT CORP VB0097 IN NORTH HOLLYWOOD, CA
08844	NORCO, INCORPORATED 139 ETHAN ALLEN HIGHWAY RIDGEFIELD, CONNECTICUT 06877
09049	CUSTOM CONTROL SENSORS INC 21111 PLUMMER STREET CHATSWORTH, CALIFORNIA 91311-4905 FORMERLY CUSTOM COMPONENT SWITCHES INC
10000	MANEY AIRCRAFT INC 1305 WANAMAKER AVE. (formerly Sprague Systems Engineering) ONTARIO, CA 91761 Telephone: (909) 390-2500 Facsimile: (909) 390-2513
11362	PARKER-HANIFFIN CORP STRATOFLEX DIV 3353 OLD CONEJO ROAD NEWBURY PARK, CALIFORNIA 91320-2162 FORMERLY SYMETRICS INC.

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<b>Code</b>	<b>Name</b>
14242	VOSS INDUSTRIES INC 2168 WEST 25TH STREET CLEVELAND, OHIO 44113-4115
14397	FABER ENTERPRISES, INCORPORATED 6606 VARIEL AVE CANOGA PARK, CALIFORNIA 91303-2808
15284	PERKINELMER INC DBA PERKINELMER FLUID SERVICES 11642 OLD BALTIMORE PIKE BELTSVILLE, MARYLAND 20705-1294 FORMERLY VONYS5; EGG PRESSURE SCIENCE INC
17472	EATON AEROSPACE LLC DIV ELECTRO-MECHANICAL SYSTEMS 3675 PATTERSON SE GRAND RAPIDS, MICHIGAN 49512-4022 FORMERLY CONDUCTRON CORP AND MCDONNELL DOUGLAS ELECT FORMERLY VICKERS ELECTROMECH
1CHP6	SOLUTIA INC. 575 MARYVILLE CENTRE DRIVE SAINT LOUIS, MO 63166-6760 Telephone: 314-674-3651
22599	AMERACE CORP ESNA DIV VAN NUYS, CALIFORNIA 91411-3532 OBSOLETE RECORD - LOCATION UNKNOWN FORMERLY ELASTIC STOP NUT DIV OF AMERACE ESNA CORP
25167	HI-TEMP INSULATION INC 4700 CALLE ALTO CAMARILLO, CALIFORNIA 93010-8509
27624	PB FASTENERS DIV OF BRILES PAUL R 1700 WEST 132ND STREET GARDENA, CALIFORNIA 90249 FORMERLY PAUL R BRILES INC P.B. FASTENER DIV
33068	HTD AEROSPACE INC. DEL 29 INDUSTRIAL PARK ROAD EAST LYME, CONNECTICUT 06333-0219

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<b>Code</b>	<b>Name</b>
34941	HARPER ENGINEERING COMPANY 200 SOUTH TOBIN STREET RENTON, WASHINGTON 98055-1307
51563	ROHR INC FOOT OF H STREET PO BOX 878 CHULA VISTA, CALIFORNIA 92012
58880	VIBRO-METER, INC 10 AMMON DRIVE MANCHESTER, NEW HAMPSHIRE 03103-7406 FORMERLY MCGRAW-EDISON V14140; ARMTEC IND EDISON ELEC; RAGEN DATA SYS V13068; ARMTEC/RAGEN; MEGGIT AVIONICS
59364	HONEYWELL INTERNATIONAL INC DBA ENGINES & SYSTEMS DIV 1300 WEST WARNER ORAD M/S 1207-2W TEMPE, ARIZONA 85285-2986 FORMERLY IN PHOENIX, ARIZONA FORMERLY GARRETT PNEUMATIC SYSTEMS DIV OF GARRETT CORP
5W425	BOSTIK INC 211 BOSTON ST MIDDLETON, MA 0 Telephone: 978-777-0100
61423	KIDDE TECHNOLOGIES WALTER KIDDE AEROSPACE DIV 4200 AIRPORT DRIVE NW WILSON, NORTH CAROLINA 27893-9643 FORMERLY IN BELLEVILLE, NEW JERSEY V33525
62983	EATON AEROSPACE VICKERS FLUID POWER 5353 HIGHLAND DRIVE JACKSON, MISSISSIPPI 39206-3449 FORMERLY V63977; FORMERLY VICKERS INC AEROSP
70628	VESPER CORP ARROWHEAD PRODUCTS 4411 KATELLA AVENUE LOS ALAMITOS, CALIFORNIA 90720-3514 FORMERLY FEDERAL-MOGUL CORP RUBBER AND PLASTICS GROUP AND ARROWHEAD PRODUCTS DIV OF INDIAN BAR CO

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<b>Code</b>	<b>Name</b>
70958	BERGEN CABLE TECHNOLOGIES INC 343 KAPLAN DRIVE FAIRFIELD, NJ 07004-2510 Telephone: 973-276-9596 Facsimile: 973-276-9566
71984	DOW CORNING CORPORATION P.O. BOX 994 2200 WEST SALZBURG ROAD MIDLAND, MI 48686-0994 Telephone: 1-989-496-4400 Facsimile: 1-989-496-6731
72902	Replaced: [V72902] PALMETTO INC SEE GREEN TWEED & CO V5F573 by Code: Name and Address below 5F573: GREENE TWEED AND CO INC 2075 DETWILER RD P.O. BOX 305 KULPSVILLE, PENNSYLVANIA 19443-0305
73030	HAMILTON SUNDSTRAND CORP DIV OF UNITED TECHNOLOGIES ONE HAMILTON ROAD WINDSOR LOCKS, CONNECTICUT 06096-1010 FORMERLY HAMILTON STANDARD DIV UNITED AIRCRAFT; UNITED AIRCRAFT HAMILTON STANDRD DIV; UNITED TECHNOLOGIES CORP HAMILTON STANDARD DIV
78570	TITFLEX CORP SUB OF BUNDY CORP 603 HENDEE STREET PO BOX 90054 SPRINGFIELD, MASSACHUSETTS 01139
81205	THE BOEING COMPANY 17930 INTERNATIONAL BLVD. SOUTH SEATAC, WA 98188-4321 Telephone: 206-662-6650 Facsimile: 206-662-7145
83324	FAIRCHILD IND FASTENER DIV SOUTHBAY OPERATIONS TORRANCE, CA 90505-5103 FORMERLY REXNORD INC ROSAN DIV; IN SANTA ANA, CA

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Code	Name
83533	ESSEX IND INC ESSEX MFG. DIV 6 SUNNEN DR SAINT LOUIS, MISSOURI 63143-3903 FORMERLY FILM-SOL CORP V27340 FORMERLY ESSEX CRYOGENICS IND INC
84971	TA MFG CO TA DIV 28065 W FRANKLIN PKY PO BOX 931 VALENCIA, CALIFORNIA 91380-9031 FORMERLY IN LA, CALIF; SUB OF CRITON CORP, GLENDALE, CALIF
95272	STILLMAN SEL CORP 6020 AVENIDA ENCINAS CARLSBAD, CALIFORNIA 92009-1001 FORMERLY SARGENT IND
97393	SHUR-LOK CORPORATION 2541 WHITE ROAD PO BOX 19584 IRVINE, CALIFORNIA 92713 FORMERLY SHUR LOK CORP VB0060 FORMERLY IN SANTA ANA, CALIFORNIA 92714
97424	AMETEK AEROSPACE PRODUCTS INC 50 FORDHAM ROAD WILMINGTON, MASSACHUSETTS 01887 FORMERLY IN WEST LYNN, MASS; FORMERLY GENERAL ELEC CO AIRCRAFT INSTR; FORMERLY REVERE AEROSPACE IN WILLINGFORD, CONNECTICUT V50625
98159	RUBBER TECK, INC DIV OF RUBBERCRAFT 15627 S BROADWAY GARDENA, CALIFORNIA 90247
99135	FLEXCO INC 6855 SUVA STREET PO BOX 2279 BELL GARDENS, CALIFORNIA 90201-1937 FORMERLY SHERWOOD INDUSTRIES FLEXCO DIV
99167	HAMILTON SUNDSTRAND CORP 4747 HARRISON AVE PO BOX 7002 ROCKFORD, ILLINOIS 61125-7002 FORMERLY SUNDSTRAND DENVER DIV V05237; V50907 & V77200

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<b>Code</b>	<b>Name</b>
99240	CRISSAIR, INCORPORATED 38905 10TH STREET EAST PALMDALE, CALIFORNIA 93550-4000 FORMERLY IN EL SEGUNDO, CALIFORNIA
99321	SHAW AERO DEVICES, INCORPORATED 3580 SHAW BOULEVARD NAPLES, FLORIDA 34117 FORMERLY IN EAST HAMPTON, NEW YORK FORMERLY IN WAINSCOTT, NEW YORK SHAW AERO DEVICES PURCHASED D AND D ENGINEERING

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BRACKET INSTALLATION - LEFT SIDE FAN CASE	71-00-02	3-1
BRACKET INSTALLATION - RIGHT SIDE CORE CASE	71-00-02	3-4
BRACKET INSTALLATION - RIGHT SIDE FAN CASE	71-00-02	3-2
CONTROL INSTALLATION	71-00-02	12-1
DRAIN COLLECTOR INSTALLATION	71-00-02	4-1
ECS CONTROLLER INSTALLATION	71-00-02	12-2
ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE	71-00-02	4-2
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FIRE EXTINGUISHER INSTALLATION	71-00-02	12-5
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HYDRAULIC PUMP PREASSEMBLY	71-00-01	1-1
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		71-00-02	8-1	15	-
		71-00-02	8-1	20	-
		71-00-02	8-1	30	-
		71-00-02	9-1	10	-
		71-00-02	12-3	115	-
		71-00-02	13-2	20	-
AE1010563N0570		71-00-02	11-1	20	1
AE1010743M0607		71-00-02	11-1	35	1
AE1010745M0645		71-00-02	11-1	35	-
AE2463533H0590		71-00-02	11-1	5	1
AE706825-15		71-00-02	11-1	105	-
AE706825-5		71-00-02	11-1	105	-
AE709079-1		71-00-02	7-3	45	-
AE81565N		71-00-02	11-1	32	-
AS136-08N0077L		71-00-02	4-4	-90	-
AS136-08N0080L		71-00-02	4-4	465	1
AS136-08N0120L		71-00-02	4-4	20	-
AS136-12S0094L		71-00-02	4-4	25	1
AS136-12S0094L		71-00-02	4-4	44	-
AS136-12S0140L		71-00-02	4-4	25	-
AS137-08N0063L		71-00-02	4-4	20	-
AS138-04N0071L		71-00-02	7-3	45	-
AS138-06N0065L		71-00-02	4-2	205A	1
AS138-06N0076L		71-00-02	4-3	225	1
AS138-08N0086L		71-00-02	4-4	28	-
AS138-08N0086L		71-00-02	4-4	55	-
AS138-08N0095L		71-00-02	4-4	28	-
AS138-08N0095L		71-00-02	4-4	-90	1
AS139G140S240		71-00-02	4-4	340	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
AS139G140S240		71-00-02	4-4	350	1
AS140G164-230		71-00-02	4-4	325	-
AS140G164-230		71-00-02	4-4	445	1
AS140G172-230		71-00-02	4-4	325	-
AS1503-03D0072		71-00-02	9-3	70	1
AS1503-04D0050		71-00-02	9-3	5	-
AS1503-04D0050		71-00-02	9-3	5	1
AS1505-02D0042		71-00-02	9-3	150	-
AS1634B12H0104		71-00-02	8-2	20	1
AS1635B10H0144		71-00-02	8-2	60	1
AS1895-1E550		71-00-02	12-3	15	2
AS1895-1E550		71-00-02	12-3	35	1
AS1895-1E550		71-00-02	12-3	70	1
AS1895-4-550		71-00-02	12-3	-75	1
AS1895-4-550		71-00-02	12-3	125	1
AS1895-7-400		71-00-02	8-4	5	1
AS1895-7-400		71-00-02	8-4	20	1
AS1895-7-400		71-00-02	8-5	10	2
AS1895-7-400		71-00-02	12-3	106	1
AS1895-7-550		71-00-02	12-3	10	2
AS1895-7-550		71-00-02	12-3	30	1
AS1895-7-550		71-00-02	12-3	65	1
AS1895-7-550		71-00-02	12-3	-76	1
AS1895-7-550		71-00-02	12-3	120	1
AS3208-06		71-00-02	5-2	25	-
AS3208-06		71-00-02	5-2	35	-
AS3209-216		71-00-02	8-3	35	1
AS3209-233		71-00-02	6-2	5	1
AS351-906		71-00-02	4-2	350	1
AS3581-608		71-00-02	7-3	30	-
AS3581-904		71-00-02	4-2	240	1
AS3581-904		71-00-02	5-3	20	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
AS3581-904		71-00-02	5-3	55	1
AS3581-904		71-00-02	5-3	70	1
AS3581-904		71-00-02	7-3	20	-
AS3581-904		71-00-02	7-3	20	1
AS3581-906		71-00-02	4-2	5	1
AS3581-906		71-00-02	4-2	65	-
AS3581-906		71-00-02	4-2	65	2
AS3581-906		71-00-02	4-2	115	-
AS3581-906		71-00-02	4-2	130	-
AS3581-906		71-00-02	4-2	185	-
AS3581-906		71-00-02	4-2	185	1
AS3581-906		71-00-02	4-2	275	1
AS3581-906		71-00-02	4-3	217	1
AS3581-906		71-00-02	4-3	245	1
AS3581-906		71-00-02	4-3	289	1
AS3581-906		71-00-02	7-3	30	1
AS3581-906		71-00-02	8-1	85	1
AS3581-906		71-00-02	8-1	151	1
AS3581-906		71-00-02	8-3	31	1
AS3581-908		71-00-02	4-4	30	-
AS3581-908		71-00-02	8-1	75	1
AS3581-910		71-00-02	8-2	90	1
AS3581-912		71-00-02	8-1	40	1
AS3581-912		71-00-02	8-2	10	1
AS5178J04		71-00-02	5-3	33	1
AS5178J04		71-00-02	5-3	50	-
AS5178J04		71-00-02	5-3	90	1
AS5178J06		71-00-02	4-2	195	-
AS5178J06		71-00-02	4-2	195	1
AS5178J06		71-00-02	4-4	320	-
AS5178J06		71-00-02	4-4	322	1
AS5178J06		71-00-02	4-4	440	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
AS5178J06		71-00-02	8-1	110	1
AS5178J06		71-00-02	12-2	50	1
AS5178J08		71-00-02	4-4	12	-
AS5178J08		71-00-02	8-1	95	1
AS5178J10		71-00-02	12-5	15	1
AS5178J12		71-00-02	4-4	15	-
AS5178J12		71-00-02	4-4	40	-
AS5178J12		71-00-02	8-1	65	1
AS5179J06		71-00-02	4-2	75	-
AS5179J06		71-00-02	4-2	75	1
AS5179J06		71-00-02	4-2	285	1
AS5179J06		71-00-02	4-3	257	1
AS5179J06		71-00-02	4-3	291	1
A00027		71-00-02	3-1	C4	AR
A00027		71-00-02	3-2	C3	AR
A00027		71-00-02	3-3	C3	AR
A00160		71-00-02	3-1	C3	AR
A00160		71-00-02	3-2	C2	AR
A00160		71-00-02	3-3	C4	AR
A00247		71-00-01	2-1	C1	AR
A71015		71-00-02	8-1	T1	-
BACA14AZ16A		71-00-01	1-1	25	-
BACA14AZ8A		71-00-01	1-1	55	1
BACB28AK04-030		71-00-02	8-5	30	1
BACB28AK04-030		71-00-02	8-5	95	1
BACB28AK04-030		71-00-02	8-5	130	1
BACB28AK04-030		71-00-02	12-3	160	2
BACB28AK04-030		71-00-02	12-3	230	2
BACB28AK06-037		71-00-02	3-3	303C	1
BACB28AK06-046		71-00-02	12-3	200	1
BACB28AK06-078		71-00-02	3-3	247	-
BACB30LE10HU17		71-00-02	2-2	10	4

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACB30LE3HU15		71-00-02	12-1	10	-
BACB30LE4HU2		71-00-02	9-2	12	-
BACB30LE4HU2		71-00-02	12-3	80	8
BACB30LE4HU2		71-00-02	12-3	100	-
BACB30LE4HU5		71-00-02	12-3	100	8
BACB30LE4HU7		71-00-02	7-1	20	-
BACB30LE4HU8		71-00-02	7-1	20	4
BACB30LE4HU8		71-00-02	7-1	25	4
BACB30LE4U2		71-00-02	9-2	10	8
BACB30LE5U14		71-00-02	10-2	25	1
BACB30LE6U49		71-00-02	2-1	15	1
BACB30LH3-3		71-00-02	12-4	12	3
BACB30LH3-4		71-00-02	12-4	10	1
BACB30LJ4H4		71-00-02	10-2	10	2
BACB30LJ4U10		71-00-02	6-3	30	3
BACB30LJ4U10		71-00-02	6-3	70	3
BACB30LJ4U11		71-00-02	6-3	35	2
BACB30LJ4U11		71-00-02	6-3	75	1
BACB30LJ4U5		71-00-02	6-2	30	1
BACB30LJ4U6		71-00-02	6-2	25	3
BACB30LJ4U6		71-00-02	6-2	60	1
BACB30LJ4U7		71-00-02	2-1	40	1
BACB30LJ4U7		71-00-02	6-2	62	1
BACB30LJ4U9		71-00-02	6-3	25	3
BACB30LJ4U9		71-00-02	6-3	65	4
BACB30LM3-12		71-00-02	12-1	25	-
BACB30LM3-16		71-00-02	3-1	105	1
BACB30LM3-16		71-00-02	3-2	105	1
BACB30LM3U1		71-00-02	8-1	54	3
BACB30LM3U2		71-00-02	3-3	557A	2
BACB30LM3U2		71-00-02	3-3	558A	1
BACB30LM3U2		71-00-02	3-3	45	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACB30LM3U2		71-00-02	3-3	65	2
BACB30LM3U2		71-00-02	3-3	135	-
BACB30LM3U2		71-00-02	3-3	135	2
BACB30LM3U2		71-00-02	3-3	155	2
BACB30LM3U2		71-00-02	3-3	223	2
BACB30LM3U2		71-00-02	3-3	285	5
BACB30LM3U2		71-00-02	3-3	330	12
BACB30LM3U2		71-00-02	3-3	415	2
BACB30LM3U2		71-00-02	3-3	442	2
BACB30LM3U2		71-00-02	3-3	536	2
BACB30LM3U2		71-00-02	3-3	665	5
BACB30LM3U2		71-00-02	3-4	150	12
BACB30LM3U2		71-00-02	3-4	216	8
BACB30LM3U2		71-00-02	3-4	265	7
BACB30LM3U2		71-00-02	3-4	575	-
BACB30LM3U2		71-00-02	3-4	620	2
BACB30LM3U2		71-00-02	5-1	110	2
BACB30LM3U3		71-00-02	3-3	192	2
BACB30LM3U3		71-00-02	3-3	206	4
BACB30LM3U3		71-00-02	3-3	226	3
BACB30LM3U3		71-00-02	3-3	231	3
BACB30LM3U3		71-00-02	3-3	280	5
BACB30LM3U3		71-00-02	3-3	382	3
BACB30LM3U3		71-00-02	3-3	435	3
BACB30LM3U3		71-00-02	3-3	450	4
BACB30LM3U3		71-00-02	3-3	470	4
BACB30LM3U3		71-00-02	3-3	490	10
BACB30LM3U3		71-00-02	3-3	535	6
BACB30LM3U3		71-00-02	3-4	122A	2
BACB30LM3U3		71-00-02	3-4	20	2
BACB30LM3U3		71-00-02	3-4	195	3
BACB30LM3U3		71-00-02	3-4	225	4

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACB30LM3U3		71-00-02	3-4	325	8
BACB30LM3U3		71-00-02	3-4	355	11
BACB30LM3U3		71-00-02	3-4	390	3
BACB30LM3U3		71-00-02	3-4	447	1
BACB30LM3U4		71-00-02	3-3	505	2
BACB30LM3U4		71-00-02	3-3	667	2
BACB30LM3U4		71-00-02	3-4	450	1
BACB30LM4-1		71-00-02	3-3	400	2
BACB30LM4-1		71-00-02	3-4	300	-
BACB30LM4-1		71-00-02	3-4	300	2
BACB30LM4-1		71-00-02	3-4	605	2
BACB30LM4-10		71-00-02	12-2	83	3
BACB30LM4-11		71-00-02	12-2	85	3
BACB30LM4-11		71-00-02	12-2	85	4
BACB30LM4-16		71-00-02	4-1	10	2
BACB30LM4-4		71-00-02	3-1	60	2
BACB30LM4-4		71-00-02	3-2	65	2
BACB30LM4-5		71-00-02	3-1	35	2
BACB30LM4-5		71-00-02	3-2	162	1
BACB30LM4-6		71-00-02	3-2	160	1
BACB30LM4-8		71-00-02	12-2	75	1
BACB30LM4-8		71-00-02	12-2	75	3
BACB30LM4H4		71-00-02	10-2	10	-
BACB30LM4U1		71-00-02	9-2	10	-
BACB30LM4U2		71-00-02	9-2	10	-
BACB30LM4U3		71-00-02	3-4	35	2
BACB30LM4U4		71-00-02	3-1	10	6
BACB30LM4U4		71-00-02	3-2	35	6
BACB30LM4U4		71-00-02	3-2	35	8
BACB30LM4U5		71-00-02	3-2	40	2
BACB30LM5H6		71-00-02	11-1	115	4
BACB30LM5U2		71-00-02	3-4	60	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACB30LM6-36		71-00-02	12-2	65	5
BACB30LM6-43		71-00-02	12-2	65	6
BACB30LM6U6		71-00-02	8-3	25	-
BACB30LU3-3		71-00-02	4-2	436	2
BACB30LU3-3		71-00-02	4-2	465	-
BACB30PN14-25		71-00-02	2-1	-70	4
BACB30PN14-30		71-00-02	2-1	-70	-
BACB30PN14-30M		71-00-02	2-1	-70	4
BACB30PN20-93		71-00-02	2-1	45	2
BACB30PN4-10		71-00-02	3-4	85	-
BACB30PN4-10		71-00-02	8-5	35	2
BACB30PN4-10		71-00-02	8-5	70	1
BACB30PN4-10		71-00-02	8-5	105	1
BACB30PN4-13		71-00-02	8-5	25	1
BACB30PN4-13		71-00-02	8-5	90	1
BACB30PN4-13		71-00-02	8-5	125	1
BACB30PN4-13		71-00-02	12-3	145	2
BACB30PN4-13		71-00-02	12-3	220	2
BACB30PN4-5		71-00-02	13-1	40	66
BACB30PN4-6		71-00-02	13-1	20	-
BACB30PN4-6		71-00-02	13-1	42	2
BACB30PN4-7		71-00-02	13-1	20	16
BACB30PN4H2		71-00-02	6-1	65	-
BACB30PN4H2		71-00-02	6-1	65	24
BACB30PN4H3		71-00-02	6-1	67	-
BACB30PN6-18		71-00-02	3-3	303A	1
BACB30PN6-20		71-00-02	12-3	185	1
BACB30PN6-5		71-00-02	6-1	15	2
BACB30US14-24		71-00-02	2-2	-40	-
BACB30US14-24M		71-00-02	2-2	-40	2
BACB30US14-59		71-00-02	2-2	-45	-
BACB30US14-59M		71-00-02	2-2	-45	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACB30US14K24M		71-00-02	2-2	-40	-
BACB30US14K59M		71-00-02	2-2	-45	-
BACB30US6K17		71-00-02	13-2	25	60
BACB30UU4-11		71-00-02	3-4	85	3
BACB30VF3K3		71-00-02	4-2	465	2
BACB30ZE3U2		71-00-02	9-2	25	6
BACB30ZF3-06		71-00-02	3-3	605	2
BACB30ZF4-08		71-00-02	3-4	475	2
BACB30ZF4-11		71-00-02	3-3	75	-
BACB30ZF4-11		71-00-02	3-4	475	-
BACC10DW12S		71-00-02	3-3	222	2
BACC10DW12S		71-00-02	3-4	222	3
BACC10GT1-06		71-00-02	4-2	46	
BACC10GT1-06		71-00-02	4-2	173	
BACC10GT1-06		71-00-02	4-2	420	
BACC10GT1-06		71-00-02	4-2	460	
BACC10GT1-06		71-00-02	4-3	325	
BACC10GT1-06		71-00-02	8-1		
BACC10GT1-06		71-00-02	12-2	91	3
BACC10GT1-06		71-00-02	12-2	230	
BACC10GT1-06		71-00-02	12-2	270	
BACC10GT1-08		71-00-02	4-4	60	
BACC10GT1-08		71-00-02	7-2	15	5
BACC10GT1-08		71-00-02	7-2	45	5
BACC10GT1-08		71-00-02	7-2	75	6
BACC10GT1-08		71-00-02	7-2	105	6
BACC10GT2-04		71-00-02	5-2	60	-
BACC10GT2-04		71-00-02	5-3	125	-
BACC10GT2-06		71-00-02	4-2	45	-
BACC10GT2-06		71-00-02	4-2	46	
BACC10GT2-06		71-00-02	4-2	171	-
BACC10GT2-06		71-00-02	4-2	173	

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACC10GT2-06		71-00-02	4-2	220	-
BACC10GT2-06		71-00-02	4-2	305	-
BACC10GT2-06		71-00-02	4-2	420	
BACC10GT2-06		71-00-02	4-2	460	
BACC10GT2-06		71-00-02	4-3	270	-
BACC10GT2-06		71-00-02	4-3	305	-
BACC10GT2-06		71-00-02	4-3	325	
BACC10GT2-06		71-00-02	4-4	365	-
BACC10GT2-06		71-00-02	8-1		
BACC10GT2-06		71-00-02	9-3	60	4
BACC10GT2-06		71-00-02	12-2	91A	6
BACC10GT2-06		71-00-02	12-2	167	8
BACC10GT2-06		71-00-02	12-2	226	8
BACC10GT2-06		71-00-02	12-2	230	
BACC10GT2-06		71-00-02	12-2	270	
BACC10GT2-08		71-00-02	4-4	60	
BACC10GT2-08		71-00-02	7-2	20	6
BACC10GT2-08		71-00-02	7-2	50	6
BACC10GT2-08		71-00-02	7-2	80	8
BACC10GT2-08		71-00-02	7-2	110	8
BACC10GT2-08		71-00-02	12-5	133	2
BACC10GT3-06		71-00-02	4-2	46	1
BACC10GT3-06		71-00-02	4-2	173	1
BACC10GT3-06		71-00-02	4-2	420	4
BACC10GT3-06		71-00-02	4-2	460	2
BACC10GT3-06		71-00-02	4-3	325	2
BACC10GT3-06		71-00-02	8-1	160	2
BACC10GT3-06		71-00-02	12-2	230	7
BACC10GT3-06		71-00-02	12-2	270	8
BACC10GT3-08		71-00-02	4-4	60	-
BACC10GW0450-1E		71-00-02	12-3	320	2
BACC10GW0475-1E		71-00-02	12-3	320	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACC10HS03		71-00-02	12-3	325	2
BACC10HS04		71-00-02	5-2	65	-
BACC10HS04		71-00-02	5-3	120	-
BACC10HS05		71-00-02	12-3	330	1
BACC10HS06		71-00-02	4-2	40	-
BACC10HS06		71-00-02	4-2	169	-
BACC10HS06		71-00-02	4-2	215	-
BACC10HS06		71-00-02	4-2	300	-
BACC10HS06		71-00-02	4-3	265	-
BACC10HS06		71-00-02	4-3	300	-
BACC10HS06		71-00-02	4-4	360	-
BACC10HS06		71-00-02	9-3	55	-
BACC10HS06		71-00-02	11-1	150	1
BACC10HS06		71-00-02	12-2	165	4
BACC10HS06		71-00-02	12-2	225	8
BACC10HS07		71-00-02	12-3	335	1
BACC10HS08		71-00-02	12-3	385	-
BACC10HS08		71-00-02	12-5	105	-
BACC10HS10		71-00-02	8-2	65	-
BACC10HS10		71-00-02	12-5	25	-
BACC10HS10		71-00-02	12-5	55	-
BACC10HS10		71-00-02	12-5	80	-
BACC10HS12		71-00-02	4-4	68	-
BACC10HS12		71-00-02	4-4	70	-
BACC10HS12		71-00-02	4-4	195	-
BACC10HS12		71-00-02	4-4	220	-
BACC10HS12		71-00-02	8-2	25	-
BACC10HS12		71-00-02	8-2	63	-
BACC10HS12		71-00-02	9-3	80	-
BACC10HS16		71-00-02	9-3	35	-
BACC10HS16		71-00-02	9-3	110	-
BACC10HS16		71-00-02	9-3	160	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACC10HS16		71-00-02	9-3	240	-
BACC10HS17		71-00-02	7-3	50	-
BACC10HT08		71-00-02	12-5	130	-
BACC10HT12		71-00-02	3-3	191	1
BACC10HT12		71-00-02	12-2	155	1
BACC10HT14		71-00-02	11-1	55	-
BACC10HT20		71-00-02	9-3	110	-
BACC10HT24		71-00-02	11-1	75	-
BACC10HT28		71-00-02	11-1	60	-
BACC10HT40		71-00-02	11-1	125	-
BACC10JB022C040		71-00-02	9-3	30	2
BACC10JB022C040		71-00-02	9-3	75	2
BACC10JB022C040		71-00-02	9-3	205	4
BACC14AD06J		71-00-02	4-2	35	-
BACC14AD06J		71-00-02	4-2	167	-
BACC14AD06J		71-00-02	4-2	255	-
BACC14AD06J		71-00-02	4-2	365	-
BACC14AD06J		71-00-02	4-3	227	-
BACC14AD06J		71-00-02	4-3	240	-
BACC14AD06JL		71-00-02	4-2	35	2
BACC14AD06JL		71-00-02	4-2	167	2
BACC14AD06JL		71-00-02	4-2	255	1
BACC14AD06JL		71-00-02	4-2	365	1
BACC14AD06JL		71-00-02	4-3	227	2
BACC14AD06JN		71-00-02	4-3	240	-
BACE21AW0606M		71-00-02	9-3	25	-
BACE21AW0606M		71-00-02	12-3	245	-
BACE21AW0808M		71-00-02	11-1	15	-
BACE21AW1216JM		71-00-02	11-1	40	-
BACE21AW1216JN		71-00-02	11-1	40	-
BACE21AW2020M		71-00-02	11-1	30	-
BACE21BL0606J		71-00-02	4-3	200	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACE21BM0606J		71-00-02	4-2	80	-
BACE21BM0606J		71-00-02	4-2	80	1
BACE21BM0606J		71-00-02	4-3	255	1
BACE21BM0606J		71-00-02	4-4	310	-
BACE21BM0608J		71-00-02	4-4	430	1
BACE21BN0606J		71-00-02	4-2	290	1
BACE21BN0606J		71-00-02	4-3	287	1
BACE21BN0608J		71-00-02	4-4	320	1
BACE21BR0606JN		71-00-02	4-2	62	-
BACE21BR0606JN		71-00-02	4-2	125	-
BACE21BR0606JN		71-00-02	4-3	255	-
BACE21BR0808JN		71-00-02	4-4	467	1
BACE21BR1010JN		71-00-02	8-2	45	1
BACE21BR1212JN		71-00-02	4-4	27	-
BACE21BR1212JN		71-00-02	4-4	38	-
BACE21BT0404JN		71-00-02	5-2	55	-
BACE21BT0404JN		71-00-02	5-3	25	-
BACE21BT0404JN		71-00-02	5-3	25	1
BACE21BT0404JN		71-00-02	5-3	63	1
BACE21BT0404JN		71-00-02	5-3	80	1
BACE21BT0404JN		71-00-02	7-3	40	-
BACE21BT0606J		71-00-02	9-3	25	-
BACE21BT0606J		71-00-02	12-3	245	-
BACE21BT0606JN		71-00-02	4-2	145	-
BACE21BT0606JN		71-00-02	4-2	265	1
BACE21BT0606JN		71-00-02	4-4	345	-
BACE21BT0606JN		71-00-02	4-4	355	1
BACE21BT0606JN		71-00-02	7-3	40	-
BACE21BT0606JN		71-00-02	7-3	40	2
BACE21BT0606JN		71-00-02	8-1	120	2
BACE21BT0606JN		71-00-02	9-3	25	-
BACE21BT0606JN		71-00-02	9-3	25	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACE21BT0606JN		71-00-02	12-2	30	2
BACE21BT0606JN		71-00-02	12-3	245	3
BACE21BT0808JN		71-00-02	4-4	24	-
BACE21BT0808JN		71-00-02	4-4	50	-
BACE21BT0808JN		71-00-02	8-1	125	2
BACE21BT0808JN		71-00-02	11-1	15	1
BACE21BT1216JN		71-00-02	11-1	40	1
BACE21BT2020JN		71-00-02	11-1	30	1
BACG10AD32YC		71-00-02	11-1	100	1
BACH5P0115CK-N		71-00-02	12-2	295	-
BACH7C0140KK240		71-00-02	4-4	340	-
BACH7C0140KK240		71-00-02	4-4	350	-
BACH7C0164KT230		71-00-02	4-4	325	-
BACH7C0164KT230		71-00-02	4-4	445	-
BACJ40AD44-18		71-00-02	12-2	87B	-
BACJ40AD44-19		71-00-02	12-2	87B	1
BACJ40AD44-8		71-00-02	8-4	35	1
BACJ40AD45-11		71-00-02	12-3	260	1
BACJ40AD45-12		71-00-02	12-3	265	1
BACJ40AD45-14		71-00-02	12-2	87A	1
BACJ40AD45-8		71-00-02	12-2	87	-
BACJ40AD45-9		71-00-02	12-2	87	1
BACN10DR12J		71-00-02	7-3	10	-
BACN10DR12J		71-00-02	7-3	10	1
BACN10DR12S		71-00-02	5-3	10	1
BACN10DR12S		71-00-02	7-3	10	-
BACN10DR4J		71-00-02	5-3	50	1
BACN10DR6J		71-00-02	6-2	50	1
BACN10HR3C		71-00-02	12-3	310	-
BACN10HR3CS		71-00-02	12-1	50	-
BACN10HR4C		71-00-02	13-1	10	1
BACN10HR4C		71-00-02	13-1	45	66

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACN10HY4A		71-00-02	13-1	45	-
BACN10JC12CM		71-00-02	2-2	35	2
BACN10YR04CM		71-00-02	10-4		-
BACN10YR3C		71-00-02	3-3	557C	2
BACN10YR3C		71-00-02	3-3	55	2
BACN10YR3C		71-00-02	3-3	70	2
BACN10YR3C		71-00-02	3-3	145	-
BACN10YR3C		71-00-02	3-3	145	2
BACN10YR3C		71-00-02	3-3	170	2
BACN10YR3C		71-00-02	3-3	194	2
BACN10YR3C		71-00-02	3-3	208	4
BACN10YR3C		71-00-02	3-3	225	5
BACN10YR3C		71-00-02	3-3	233	3
BACN10YR3C		71-00-02	3-3	295	13
BACN10YR3C		71-00-02	3-3	345	12
BACN10YR3C		71-00-02	3-3	384	3
BACN10YR3C		71-00-02	3-3	425	2
BACN10YR3C		71-00-02	3-3	460	4
BACN10YR3C		71-00-02	3-3	515	-
BACN10YR3C		71-00-02	3-3	545	5
BACN10YR3C		71-00-02	3-3	615	2
BACN10YR3C		71-00-02	3-3	675	7
BACN10YR3C		71-00-02	3-4	122C	2
BACN10YR3C		71-00-02	3-4	30	2
BACN10YR3C		71-00-02	3-4	160	12
BACN10YR3C		71-00-02	3-4	205	3
BACN10YR3C		71-00-02	3-4	234	6
BACN10YR3C		71-00-02	3-4	275	7
BACN10YR3C		71-00-02	3-4	375	8
BACN10YR3C		71-00-02	3-4	405	3
BACN10YR3C		71-00-02	3-4	460	2
BACN10YR3C		71-00-02	3-4	515	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACN10YR3C		71-00-02	3-4	630	2
BACN10YR3C		71-00-02	4-2	60	5
BACN10YR3C		71-00-02	4-2	180	4
BACN10YR3C		71-00-02	4-2	235	-
BACN10YR3C		71-00-02	4-2	235	2
BACN10YR3C		71-00-02	4-2	320	3
BACN10YR3C		71-00-02	4-2	445	4
BACN10YR3C		71-00-02	4-2	475	2
BACN10YR3C		71-00-02	4-3	285	2
BACN10YR3C		71-00-02	4-3	285	3
BACN10YR3C		71-00-02	4-3	285	9
BACN10YR3C		71-00-02	4-3	320	1
BACN10YR3C		71-00-02	4-4	80	-
BACN10YR3C		71-00-02	4-4	80	6
BACN10YR3C		71-00-02	4-4	85	-
BACN10YR3C		71-00-02	4-4	210	-
BACN10YR3C		71-00-02	4-4	210	2
BACN10YR3C		71-00-02	4-4	235	-
BACN10YR3C		71-00-02	4-4	235	1
BACN10YR3C		71-00-02	4-4	260	1
BACN10YR3C		71-00-02	4-4	345	-
BACN10YR3C		71-00-02	4-4	345	3
BACN10YR3C		71-00-02	4-4	380	-
BACN10YR3C		71-00-02	4-4	490	4
BACN10YR3C		71-00-02	4-4	520	2
BACN10YR3C		71-00-02	4-4	585	1
BACN10YR3C		71-00-02	5-1	35	2
BACN10YR3C		71-00-02	5-1	70	2
BACN10YR3C		71-00-02	5-1	90	2
BACN10YR3C		71-00-02	5-1	115	2
BACN10YR3C		71-00-02	5-1	135	4
BACN10YR3C		71-00-02	5-2	20	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACN10YR3C		71-00-02	5-3	140	2
BACN10YR3C		71-00-02	6-2	80	2
BACN10YR3C		71-00-02	7-2	30	5
BACN10YR3C		71-00-02	7-2	60	5
BACN10YR3C		71-00-02	7-2	90	6
BACN10YR3C		71-00-02	7-2	120	6
BACN10YR3C		71-00-02	7-3	65	1
BACN10YR3C		71-00-02	8-1	58	3
BACN10YR3C		71-00-02	8-1	175	2
BACN10YR3C		71-00-02	8-2	40	5
BACN10YR3C		71-00-02	8-2	80	5
BACN10YR3C		71-00-02	8-4	50	2
BACN10YR3C		71-00-02	9-2	35	6
BACN10YR3C		71-00-02	9-3	50	4
BACN10YR3C		71-00-02	9-3	95	2
BACN10YR3C		71-00-02	9-3	125	6
BACN10YR3C		71-00-02	9-3	135	2
BACN10YR3C		71-00-02	9-3	175	2
BACN10YR3C		71-00-02	9-3	225	1
BACN10YR3C		71-00-02	9-3	255	1
BACN10YR3C		71-00-02	10-3		1
BACN10YR3C		71-00-02	10-3		2
BACN10YR3C		71-00-02	10-3		3
BACN10YR3C		71-00-02	10-4		1
BACN10YR3C		71-00-02	10-4		2
BACN10YR3C		71-00-02	10-4		3
BACN10YR3C		71-00-02	11-1	95	18
BACN10YR3C		71-00-02	11-1	140	7
BACN10YR3C		71-00-02	11-2		-
BACN10YR3C		71-00-02	11-2		1
BACN10YR3C		71-00-02	11-2		2
BACN10YR3C		71-00-02	11-2		3

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACN10YR3C		71-00-02	11-2		4
BACN10YR3C		71-00-02	11-2		5
BACN10YR3C		71-00-02	11-2		7
BACN10YR3C		71-00-02	11-2		8
BACN10YR3C		71-00-02	11-2		10
BACN10YR3C		71-00-02	11-2		12
BACN10YR3C		71-00-02	12-2	90	5
BACN10YR3C		71-00-02	12-2	145	2
BACN10YR3C		71-00-02	12-2	180	2
BACN10YR3C		71-00-02	12-2	210	2
BACN10YR3C		71-00-02	12-2	245	9
BACN10YR3C		71-00-02	12-2	290	4
BACN10YR3C		71-00-02	12-3	310	-
BACN10YR3C		71-00-02	12-3	310	6
BACN10YR3C		71-00-02	12-3	340	2
BACN10YR3C		71-00-02	12-3	370	2
BACN10YR3C		71-00-02	12-4	20	4
BACN10YR3C		71-00-02	12-5	35	3
BACN10YR3C		71-00-02	12-5	65	3
BACN10YR3C		71-00-02	12-5	90	3
BACN10YR3C		71-00-02	12-5	140	2
BACN10YR3CM		71-00-02	3-4	610	-
BACN10YR4C		71-00-02	3-4	45	2
BACN10YR4C		71-00-02	3-4	90	3
BACN10YR4C		71-00-02	3-4	585	-
BACN10YR4C		71-00-02	6-2	40	4
BACN10YR4C		71-00-02	6-2	70	2
BACN10YR4C		71-00-02	6-3	40	8
BACN10YR4C		71-00-02	6-3	80	8
BACN10YR4C		71-00-02	12-2	90A	2
BACN10YR4C		71-00-02	12-3	295	2
BACN10YR5C		71-00-02	8-1	50	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACN11Z10C		71-00-02	6-1	40	1
BACN11Z10CK		71-00-02	6-1	40	-
BACN11Z20C		71-00-02	2-1	60	2
BACN11Z20CK		71-00-02	2-1	60	-
BACN11Z3C		71-00-02	3-1	115	1
BACN11Z3C		71-00-02	3-2	115	1
BACN11Z3C		71-00-02	3-3	550	3
BACN11Z3CD		71-00-01	2-1	35	1
BACN11Z3CK		71-00-02	3-1	115	-
BACN11Z3CK		71-00-02	3-2	115	-
BACN11Z3CK		71-00-02	3-3	550	-
BACN11Z4C		71-00-02	3-1	25	6
BACN11Z4C		71-00-02	3-1	50	2
BACN11Z4C		71-00-02	3-1	75	2
BACN11Z4C		71-00-02	3-2	55	8
BACN11Z4C		71-00-02	3-2	55	10
BACN11Z4C		71-00-02	3-2	80	2
BACN11Z4C		71-00-02	3-2	175	2
BACN11Z4C		71-00-02	8-5	50	3
BACN11Z4C		71-00-02	8-5	85	2
BACN11Z4C		71-00-02	8-5	120	2
BACN11Z4C		71-00-02	12-3	170	2
BACN11Z4C		71-00-02	12-3	240	2
BACN11Z4CD		71-00-01	2-1	20	6
BACN11Z4CD		71-00-02	13-2	15	2
BACN11Z4CK		71-00-02	3-1	25	-
BACN11Z4CK		71-00-02	3-1	50	-
BACN11Z4CK		71-00-02	3-1	75	-
BACN11Z4CK		71-00-02	3-2	55	-
BACN11Z4CK		71-00-02	3-2	80	-
BACN11Z4CK		71-00-02	3-2	175	-
BACN11Z4CK		71-00-02	8-5	50	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACN11Z4CK		71-00-02	8-5	85	-
BACN11Z4CK		71-00-02	8-5	120	-
BACN11Z4CK		71-00-02	12-3	170	-
BACN11Z4CK		71-00-02	12-3	240	-
BACN11Z6C		71-00-02	2-1	25	1
BACN11Z6C		71-00-02	3-3	303E	1
BACN11Z6C		71-00-02	6-1	25	2
BACN11Z6C		71-00-02	12-3	210	1
BACN11Z6CK		71-00-02	2-1	25	-
BACN11Z6CK		71-00-02	3-3	303E	-
BACN11Z6CK		71-00-02	6-1	25	-
BACN11Z6CK		71-00-02	12-3	210	-
BACP11K4		71-00-02	12-2	40	1
BACP11K6		71-00-02	12-2	10	2
BACP11K6		71-00-02	12-2	25	2
BACP11K6		71-00-02	12-3	255	3
BACP18BC05A14P		71-00-02	2-2	36	2
BACP20AU6		71-00-02	8-3	32	1
BACR12BM111		71-00-01	1-1	50	1
BACR12BM212		71-00-01	1-1	20	-
BACR12BM212		71-00-01	1-1	20	2
BACR17E6-4		71-00-01	2-1	45	-
BACR17H16-6		71-00-02	9-3	15	1
BACS12HM08AHU10		71-00-02	10-1	10	3
BACS12HN04U6		71-00-02	10-4	50	4
BACS12HN3-21		71-00-02	12-2	215	2
BACS12HN3-35		71-00-02	12-2	135	2
BACS12HN3-9		71-00-01	2-1	25	1
BACS12HN3U10		71-00-02	3-4	243	2
BACS12HN3U10		71-00-02	5-2	10	-
BACS12HN3U10		71-00-02	5-3	40	3
BACS12HN3U10		71-00-02	5-3	130	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACS12HN3U10		71-00-02	11-1	145	2
BACS12HN3U10		71-00-02	12-2	170	2
BACS12HN3U16		71-00-02	5-1	10	2
BACS12HN3U16		71-00-02	5-1	45	2
BACS12HN3U16		71-00-02	5-1	100	4
BACS12HN3U18		71-00-02	5-1	10	-
BACS12HN3U18		71-00-02	5-1	45	-
BACS12HN3U18		71-00-02	5-1	100	-
BACS12HN3U7		71-00-02	3-4	505	2
BACS12HN3U7		71-00-02	5-1	140	1
BACS12HN3U7		71-00-02	6-2	75	2
BACS12HN3U7		71-00-02	7-3	55	1
BACS12HN3U7		71-00-02	8-1	165	2
BACS12HN3U7		71-00-02	8-2	30	5
BACS12HN3U7		71-00-02	8-2	70	5
BACS12HN3U7		71-00-02	8-4	40	2
BACS12HN3U7		71-00-02	12-2	88A	3
BACS12HN3U7		71-00-02	12-2	280	4
BACS12HN3U8		71-00-02	3-3	10	2
BACS12HN3U8		71-00-02	4-2	435	4
BACS12HN3U8		71-00-02	4-3	275	2
BACS12HN3U8		71-00-02	4-3	275	3
BACS12HN3U8		71-00-02	4-3	275	9
BACS12HN3U8		71-00-02	4-3	310	1
BACS12HN3U8		71-00-02	4-4	70	6
BACS12HN3U8		71-00-02	4-4	72	-
BACS12HN3U8		71-00-02	4-4	75	-
BACS12HN3U8		71-00-02	4-4	335	-
BACS12HN3U8		71-00-02	4-4	335	3
BACS12HN3U8		71-00-02	4-4	370	-
BACS12HN3U8		71-00-02	4-4	480	4
BACS12HN3U8		71-00-02	4-4	510	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACS12HN3U8		71-00-02	4-4	575	1
BACS12HN3U8		71-00-02	7-2	10	5
BACS12HN3U8		71-00-02	7-2	40	5
BACS12HN3U8		71-00-02	7-2	70	6
BACS12HN3U8		71-00-02	7-2	100	6
BACS12HN3U8		71-00-02	9-3	40	4
BACS12HN3U8		71-00-02	9-3	85	2
BACS12HN3U8		71-00-02	9-3	115	6
BACS12HN3U8		71-00-02	9-3	131	2
BACS12HN3U8		71-00-02	9-3	165	2
BACS12HN3U8		71-00-02	9-3	215	1
BACS12HN3U8		71-00-02	9-3	245	2
BACS12HN3U8		71-00-02	10-3		1
BACS12HN3U8		71-00-02	10-3		2
BACS12HN3U8		71-00-02	10-3		3
BACS12HN3U8		71-00-02	10-4		1
BACS12HN3U8		71-00-02	10-4		2
BACS12HN3U8		71-00-02	10-4		3
BACS12HN3U8		71-00-02	11-1	130	5
BACS12HN3U8		71-00-02	11-2		-
BACS12HN3U8		71-00-02	11-2		1
BACS12HN3U8		71-00-02	11-2		2
BACS12HN3U8		71-00-02	11-2		3
BACS12HN3U8		71-00-02	11-2		4
BACS12HN3U8		71-00-02	11-2		5
BACS12HN3U8		71-00-02	11-2		7
BACS12HN3U8		71-00-02	11-2		12
BACS12HN3U8		71-00-02	11-2	130	10
BACS12HN3U8		71-00-02	12-2	235	9
BACS12HN3U8		71-00-02	12-3	109	2
BACS12HN3U8		71-00-02	12-3	270	2
BACS12HN3U8		71-00-02	12-5	30	3

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACS12HN3U8		71-00-02	12-5	60	3
BACS12HN3U8		71-00-02	12-5	85	3
BACS12HN3U8		71-00-02	12-5	135	2
BACS12HN3U9		71-00-02	4-2	50	5
BACS12HN3U9		71-00-02	4-2	175	4
BACS12HN3U9		71-00-02	4-2	225	-
BACS12HN3U9		71-00-02	4-2	225	2
BACS12HN3U9		71-00-02	4-2	310	3
BACS12HN3U9		71-00-02	4-2	430	1
BACS12HN3U9		71-00-02	4-4	200	-
BACS12HN3U9		71-00-02	4-4	200	2
BACS12HN3U9		71-00-02	4-4	225	-
BACS12HN3U9		71-00-02	4-4	225	1
BACS12HN3U9		71-00-02	4-4	250	1
BACS12HN3U9		71-00-02	5-1	25	2
BACS12HN3U9		71-00-02	5-1	60	2
BACS12HN3U9		71-00-02	5-1	80	2
BACS12HN4U6		71-00-02	12-2	88	2
BACS12HN4U7		71-00-02	12-3	285	2
BACS18AF1		71-00-02	12-3	350	6
BACS18AF1		71-00-02	12-3	360	2
BACS18AF3		71-00-02	4-2	1	AR
BACS18AF3		71-00-02	4-4	1	-
BACS18AF3		71-00-02	4-4	425	AR
BACS18AF3		71-00-02	7-2	1	AR
BACS18AF3		71-00-02	9-3	1	AR
BACS18AF3		71-00-02	9-3	1	-
BACS18AF4		71-00-02	8-2	1	AR
BACT16AS160612W		71-00-02	9-3	15	-
BACT16AS241620W		71-00-02	9-3	195	1
BACT16BL040404J		71-00-02	5-3	57B	1
BACT16BL060606J		71-00-02	4-2	20	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACT16BL060606J		71-00-02	4-2	100	-
BACT16BL060606J		71-00-02	4-2	165	1
BACT16BL060606J		71-00-02	4-4	335	-
BACT16BL080606J		71-00-02	4-4	320	-
BACT16BL080806J		71-00-02	4-4	320	-
BACT16BL080808J		71-00-02	4-4	455	1
BACT16BL121206J		71-00-02	4-4	56	-
BACT16BL121208J		71-00-02	4-4	213	1
BACT16BL121212J		71-00-02	4-4	36	-
BACT16BN040404J		71-00-02	5-3	85	1
BACT16BN081208J		71-00-02	4-4	4	-
BACT16BN120812J		71-00-02	4-4	5	-
BACT16BN121208J		71-00-02	4-4	30	-
BACT16BR060606JN		71-00-02	4-2	140	-
BACT16BR060606JN		71-00-02	4-3	220	1
BACT16BT040404JN		71-00-02	5-3	30	1
BACT16BT121212JN		71-00-02	4-4	36	-
BACV10CD13		71-00-02	11-1	10	1
BACV10CD3		71-00-02	11-1	10	-
BACW10BN4SC		71-00-02	12-2	80	7
BACW10BN4UC		71-00-02	3-4	580	-
BACW10BN6SC		71-00-02	12-2	70	5
BACW10BN6SC		71-00-02	12-2	70	6
BACW10BP10ACU		71-00-02	2-2	15	4
BACW10BP14ACU		71-00-02	2-1	-65	4
BACW10BP14ACU		71-00-02	2-2	-50	4
BACW10BP16ACU		71-00-02	2-2	25	-
BACW10BP16APU		71-00-02	2-2	25	2
BACW10BP20ACU		71-00-02	2-1	50	-
BACW10BP20APU		71-00-02	2-1	55	2
BACW10BP3ACU		71-00-02	3-3	160	2
BACW10BP3ACU		71-00-02	3-3	335	4

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACW10BP3ACU		71-00-02	3-3	440	3
BACW10BP3ACU		71-00-02	3-3	475	4
BACW10BP3ACU		71-00-02	3-3	495	10
BACW10BP3ACU		71-00-02	3-4	219	6
BACW10BP3ACU		71-00-02	3-4	340	8
BACW10BP3ACU		71-00-02	3-4	370	11
BACW10BP4ACU		71-00-02	2-1	35	1
BACW10BP4ACU		71-00-02	3-1	15	6
BACW10BP4ACU		71-00-02	3-2	45	8
BACW10BP4ACU		71-00-02	3-2	45	10
BACW10BP4ACU		71-00-02	3-3	405	2
BACW10BP4ACU		71-00-02	3-4	95	3
BACW10BP4ACU		71-00-02	3-4	305	-
BACW10BP4ACU		71-00-02	3-4	305	2
BACW10BP4ACU		71-00-02	3-4	610	2
BACW10BP4ACU		71-00-02	6-1	70	24
BACW10BP4ACU		71-00-02	7-1	30	8
BACW10BP4ACU		71-00-02	8-5	40	3
BACW10BP4ACU		71-00-02	8-5	75	2
BACW10BP4ACU		71-00-02	8-5	110	2
BACW10BP4ACU		71-00-02	9-2	15	8
BACW10BP4ACU		71-00-02	12-3	85	8
BACW10BP4ACU		71-00-02	12-3	101	8
BACW10BP4ACU		71-00-02	12-3	150	2
BACW10BP4ACU		71-00-02	12-3	225	2
BACW10BP4CD		71-00-02	3-1	40	2
BACW10BP4CD		71-00-02	3-1	65	2
BACW10BP4CD		71-00-02	3-2	70	2
BACW10BP4CD		71-00-02	3-2	165	2
BACW10BP4DP		71-00-02	3-1	70	2
BACW10BP4DP		71-00-02	3-2	75	2
BACW10BP5ACU		71-00-02	3-4	65	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
BACW10BP5ACU		71-00-02	10-2	30	1
BACW10BP6ACU		71-00-02	3-3	303B	1
BACW10BP6ACU		71-00-02	6-1	20	2
BACW10BP6ACU		71-00-02	8-3	30	6
BACW10BP6ACU		71-00-02	12-3	190	1
BACW10BP6ACU		71-00-02	13-2	30	60
BACW10P5CC		71-00-02	3-4	231	4
BAC27EPP0489		71-00-02	14-1	25	2
BAC27TPPS5712		71-00-02	14-1	20	-
BAC27TPP0024		71-00-02	14-1	5	-
BAC27TPP0024		71-00-02	14-1	10	-
BAC27TPP0024		71-00-02	14-1	15	-
BAC27TPP0568		71-00-02	14-1	23	1
BAC27TPP0573		71-00-02	14-1	5	1
BAC27TPP0573		71-00-02	14-1	10	1
BAC27TPP0573		71-00-02	14-1	15	1
BAC27TPP0613		71-00-02	14-1	10	-
BAC27TPP0613		71-00-02	14-1	15	-
BAC27TTR79		71-00-02	14-1	20	1
BAC27TTTR79		71-00-02	14-1	20	-
BAC27WPP347		71-00-02	14-1	5	-
BAC27WPP347		71-00-02	14-1	10	-
BAC27WPP347		71-00-02	14-1	15	-
BCREFD00021		71-00-02	7-2	5	1
BCREF116854		71-00-02	4-2	260	1
BCREF116854		71-00-02	4-2	360	1
B00074		71-00-02	8-2	C1	AR
B00148		71-00-02	3-1	C2	AR
B00148		71-00-02	3-2	C1	AR
B00148		71-00-02	3-3	C2	AR
B00148		71-00-02	8-4	C1	AR
B00148		71-00-02	14-1	C1	AR

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
B00571		71-00-02	14-1	C2	AR
CA9203		71-00-02	7-1	10	-
C00259		71-00-02	3-1	C1	AR
C00259		71-00-02	3-2	C4	AR
C00259		71-00-02	3-3	C1	AR
C00259		71-00-02	3-4	C2	AR
D00006		71-00-02	2-1	C1	AR
D00006		71-00-02	2-2	C1	AR
D00006		71-00-02	3-4	C1	AR
D00006		71-00-02	5-1	C1	AR
D00006		71-00-02	6-1	C1	AR
D00006		71-00-02	12-2	C1	AR
D00006		71-00-02	12-3	C1	AR
D00006		71-00-02	13-1	C1	AR
D00015		71-00-01	2-1	C2	AR
D00054		71-00-02	11-1	C2	AR
D00068		71-00-02	8-3	C4	AR
D00068		71-00-02	11-1	C2	AR
D00109		71-00-02	4-2	C1	AR
D00109		71-00-02	8-1	C2	AR
D00109		71-00-02	8-3	C3	AR
D00109		71-00-02	9-1	C1	AR
D00109		71-00-02	11-1	C1	AR
D00153		71-00-01	1-1	C1	AR
D00153		71-00-02	11-1	C1	AR
D00254		71-00-02	8-1	C1	AR
D00254		71-00-02	8-3	C2	AR
D00504		71-00-02	7-1	C1	AR
D50004		71-00-02	8-3	C1	AR
E1RP2173C77		71-00-02	12-1	35	-
FS1215-14		71-00-02	10-4		2
G01048		71-00-02	8-1	C3	AR

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
G01048		71-00-02	11-1	C3	AR
G01912		71-00-02	5-3	C2	AR
G01912		71-00-02	7-1	C3	AR
G02437		71-00-02	6-1	C2	AR
G02437		71-00-02	12-3	C2	AR
G02473		71-00-02	7-1	C2	AR
G50003		71-00-02	6-1	C3	AR
G50003		71-00-02	12-3	C3	AR
G50375		71-00-02	3-3	C5	AR
G50375		71-00-02	5-3	C1	AR
H3-1118		71-00-02	7-1	10	2
MS21902-20		71-00-01	1-1	35	1
MS21902J10		71-00-02	8-2	85	1
MS21902J12		71-00-02	8-2	5	1
MS21902J20		71-00-02	9-3	100	1
MS21902J4		71-00-02	5-3	15	-
MS21902J4		71-00-02	5-3	15	1
MS21902J4		71-00-02	5-3	65	1
MS21902J4		71-00-02	7-3	25	-
MS21902J6		71-00-02	4-2	10	1
MS21902J6		71-00-02	4-2	67	-
MS21902J6		71-00-02	4-2	67	1
MS21902J6		71-00-02	4-2	120	-
MS21902J6		71-00-02	4-2	135	-
MS21902J6		71-00-02	4-2	355	1
MS21902J6		71-00-02	4-3	216	1
MS21902J6		71-00-02	4-3	250	-
MS21902J6		71-00-02	5-1	2	1
MS21902J6		71-00-02	6-2	45	1
MS21902J6		71-00-02	7-3	35	-
MS21902J6		71-00-02	8-1	80	1
MS21902J6		71-00-02	8-1	150	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
MS21902J6		71-00-02	12-2	5	2
MS21902J6		71-00-02	12-2	20	1
MS21902J6		71-00-02	12-2	185	-
MS21902J6		71-00-02	12-3	250	3
MS21902J8		71-00-02	4-4	29	-
MS21902J8		71-00-02	8-1	70	1
MS21905J4		71-00-02	5-3	57B	-
MS21906J6		71-00-02	4-3	215	1
MS21916J20-16		71-00-02	9-3	100	-
MS21916J20-16		71-00-02	9-3	129	1
MS21916J20-16		71-00-02	9-3	140	1
MS21916J6-4		71-00-01	2-1	45	-
MS21916J6-4		71-00-02	4-2	245	1
MS21916J6-4		71-00-02	5-2	30	-
MS21916J6-4		71-00-02	5-2	40	-
MS21916J6-4		71-00-02	7-3	25	1
MS21916J6-4		71-00-02	7-3	35	-
MS21916J6-4		71-00-02	12-2	35	1
MS21916W6-4		71-00-01	2-1	45	1
MS21924J12		71-00-02	8-1	35	1
MS21926J4		71-00-02	5-3	23	1
MS21926J4		71-00-02	5-3	45	1
MS21926J6		71-00-02	4-2	200	-
MS21926J6		71-00-02	4-2	200	1
MS21926J6		71-00-02	12-2	45	1
MS24665-443		71-00-02	2-2	36	-
MS28773-06		71-00-02	4-2	70	-
MS28773-06		71-00-02	4-2	70	1
MS28773-06		71-00-02	4-2	280	1
MS28773-06		71-00-02	4-3	250	1
MS28773-06		71-00-02	4-3	293	1
MS28778-4		71-00-01	2-1	40	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
MS9372-083		71-00-02	12-3	90	1
MS9372-083		71-00-02	12-3	102	1
M25988-3-217		71-00-02	7-1	5	2
NAS1057W3-043		71-00-02	12-1	40	-
NAS1149CN416R		71-00-02	10-4		4
NAS1149C0316R		71-00-02	3-3	558B	-
NAS1149C0316R		71-00-02	3-3	140	-
NAS1149C0316R		71-00-02	3-3	165	-
NAS1149C0316R		71-00-02	3-3	207	-
NAS1149C0316R		71-00-02	3-3	224	-
NAS1149C0316R		71-00-02	3-3	232	-
NAS1149C0316R		71-00-02	3-3	455	-
NAS1149C0316R		71-00-02	3-3	540	-
NAS1149C0316R		71-00-02	3-4	246	2
NAS1149C0316R		71-00-02	7-3	60	1
NAS1149C0332R		71-00-02	3-1	110	1
NAS1149C0332R		71-00-02	3-1	120	AR
NAS1149C0332R		71-00-02	3-2	110	1
NAS1149C0332R		71-00-02	3-2	120	AR
NAS1149C0332R		71-00-02	3-3	557B	2
NAS1149C0332R		71-00-02	3-3	558B	-
NAS1149C0332R		71-00-02	3-3	20	2
NAS1149C0332R		71-00-02	3-3	50	2
NAS1149C0332R		71-00-02	3-3	67	2
NAS1149C0332R		71-00-02	3-3	140	-
NAS1149C0332R		71-00-02	3-3	165	-
NAS1149C0332R		71-00-02	3-3	193	2
NAS1149C0332R		71-00-02	3-3	207	-
NAS1149C0332R		71-00-02	3-3	224	-
NAS1149C0332R		71-00-02	3-3	232	-
NAS1149C0332R		71-00-02	3-3	290	13
NAS1149C0332R		71-00-02	3-3	340	8

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
NAS1149C0332R		71-00-02	3-3	383	3
NAS1149C0332R		71-00-02	3-3	420	2
NAS1149C0332R		71-00-02	3-3	443	2
NAS1149C0332R		71-00-02	3-3	455	-
NAS1149C0332R		71-00-02	3-3	510	2
NAS1149C0332R		71-00-02	3-3	540	-
NAS1149C0332R		71-00-02	3-3	541	2
NAS1149C0332R		71-00-02	3-3	610	2
NAS1149C0332R		71-00-02	3-3	670	7
NAS1149C0332R		71-00-02	3-4	155	4
NAS1149C0332R		71-00-02	3-4	228	2
NAS1149C0332R		71-00-02	3-4	270	7
NAS1149C0332R		71-00-02	3-4	400	3
NAS1149C0332R		71-00-02	3-4	455	2
NAS1149C0332R		71-00-02	3-4	510	2
NAS1149C0332R		71-00-02	3-4	605	-
NAS1149C0332R		71-00-02	3-4	625	2
NAS1149C0332R		71-00-02	4-2	55	5
NAS1149C0332R		71-00-02	4-2	177	4
NAS1149C0332R		71-00-02	4-2	230	-
NAS1149C0332R		71-00-02	4-2	230	2
NAS1149C0332R		71-00-02	4-2	315	3
NAS1149C0332R		71-00-02	4-2	440	4
NAS1149C0332R		71-00-02	4-2	470	2
NAS1149C0332R		71-00-02	4-3	280	2
NAS1149C0332R		71-00-02	4-3	280	3
NAS1149C0332R		71-00-02	4-3	280	9
NAS1149C0332R		71-00-02	4-3	315	1
NAS1149C0332R		71-00-02	4-4	75	6
NAS1149C0332R		71-00-02	4-4	76	-
NAS1149C0332R		71-00-02	4-4	80	-
NAS1149C0332R		71-00-02	4-4	205	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
NAS1149C0332R		71-00-02	4-4	205	2
NAS1149C0332R		71-00-02	4-4	230	-
NAS1149C0332R		71-00-02	4-4	230	1
NAS1149C0332R		71-00-02	4-4	255	1
NAS1149C0332R		71-00-02	4-4	340	-
NAS1149C0332R		71-00-02	4-4	340	3
NAS1149C0332R		71-00-02	4-4	375	-
NAS1149C0332R		71-00-02	4-4	485	4
NAS1149C0332R		71-00-02	4-4	515	2
NAS1149C0332R		71-00-02	4-4	580	1
NAS1149C0332R		71-00-02	5-1	15	2
NAS1149C0332R		71-00-02	5-1	50	2
NAS1149C0332R		71-00-02	5-1	105	4
NAS1149C0332R		71-00-02	5-2	15	-
NAS1149C0332R		71-00-02	5-3	135	2
NAS1149C0332R		71-00-02	6-2	77	2
NAS1149C0332R		71-00-02	7-2	25	5
NAS1149C0332R		71-00-02	7-2	55	5
NAS1149C0332R		71-00-02	7-2	85	6
NAS1149C0332R		71-00-02	7-2	115	6
NAS1149C0332R		71-00-02	8-1	170	2
NAS1149C0332R		71-00-02	8-2	35	5
NAS1149C0332R		71-00-02	8-2	75	5
NAS1149C0332R		71-00-02	8-4	45	2
NAS1149C0332R		71-00-02	9-2	30	6
NAS1149C0332R		71-00-02	9-3	45	4
NAS1149C0332R		71-00-02	9-3	90	2
NAS1149C0332R		71-00-02	9-3	120	6
NAS1149C0332R		71-00-02	9-3	133	2
NAS1149C0332R		71-00-02	9-3	170	2
NAS1149C0332R		71-00-02	9-3	220	1
NAS1149C0332R		71-00-02	9-3	250	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
NAS1149C0332R		71-00-02	10-3		1
NAS1149C0332R		71-00-02	10-3		2
NAS1149C0332R		71-00-02	10-3		3
NAS1149C0332R		71-00-02	10-3	16	2
NAS1149C0332R		71-00-02	10-3	50	1
NAS1149C0332R		71-00-02	10-3	70	1
NAS1149C0332R		71-00-02	10-4		1
NAS1149C0332R		71-00-02	10-4		2
NAS1149C0332R		71-00-02	10-4		3
NAS1149C0332R		71-00-02	10-4	115	1
NAS1149C0332R		71-00-02	11-1	90	24
NAS1149C0332R		71-00-02	11-1	135	7
NAS1149C0332R		71-00-02	11-2		-
NAS1149C0332R		71-00-02	11-2		1
NAS1149C0332R		71-00-02	11-2		2
NAS1149C0332R		71-00-02	11-2		3
NAS1149C0332R		71-00-02	11-2		4
NAS1149C0332R		71-00-02	11-2		5
NAS1149C0332R		71-00-02	11-2		7
NAS1149C0332R		71-00-02	11-2		10
NAS1149C0332R		71-00-02	11-2		12
NAS1149C0332R		71-00-02	12-1	45	-
NAS1149C0332R		71-00-02	12-2	89A	4
NAS1149C0332R		71-00-02	12-2	175	2
NAS1149C0332R		71-00-02	12-2	240	9
NAS1149C0332R		71-00-02	12-2	285	4
NAS1149C0332R		71-00-02	12-3	110	2
NAS1149C0332R		71-00-02	12-3	275	2
NAS1149C0332R		71-00-02	12-3	315	-
NAS1149C0332R		71-00-02	12-3	315	12
NAS1149C0332R		71-00-02	12-3	365	2
NAS1149C0332R		71-00-02	12-4	15	4

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
NAS1149C0332R		71-00-02	12-5	40	3
NAS1149C0332R		71-00-02	12-5	70	3
NAS1149C0332R		71-00-02	12-5	95	3
NAS1149C0332R		71-00-02	12-5	145	2
NAS1149C0363R		71-00-02	3-3	558B	1
NAS1149C0363R		71-00-02	3-3	140	2
NAS1149C0363R		71-00-02	3-3	165	2
NAS1149C0363R		71-00-02	3-3	207	4
NAS1149C0363R		71-00-02	3-3	224	5
NAS1149C0363R		71-00-02	3-3	232	3
NAS1149C0363R		71-00-02	3-3	455	4
NAS1149C0363R		71-00-02	3-3	540	6
NAS1149C0363R		71-00-02	3-4	122B	2
NAS1149C0363R		71-00-02	3-4	25	2
NAS1149C0363R		71-00-02	3-4	157	8
NAS1149C0363R		71-00-02	3-4	200	3
NAS1149C0363R		71-00-02	5-1	30	4
NAS1149C0363R		71-00-02	5-1	65	4
NAS1149C0363R		71-00-02	5-1	85	4
NAS1149C0363R		71-00-02	5-1	120	2
NAS1149C0363R		71-00-02	5-1	145	5
NAS1149C0363R		71-00-02	8-1	56	3
NAS1149C0363R		71-00-02	10-4	55	1
NAS1149C0363R		71-00-02	10-4	70	2
NAS1149C0363R		71-00-02	10-4	85	1
NAS1149C0363R		71-00-02	10-4	95	1
NAS1149C0363R		71-00-02	11-2	100	8
NAS1149C0363R		71-00-02	11-2	220	7
NAS1149C0363R		71-00-02	12-2	89	1
NAS1149C0363R		71-00-02	12-3	345	2
NAS1149C0432R		71-00-02	3-3	77	-
NAS1149C0432R		71-00-02	3-4	42	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
NAS1149C0432R		71-00-02	3-4	105	AR
NAS1149C0432R		71-00-02	3-4	480	2
NAS1149C0432R		71-00-02	6-2	35	4
NAS1149C0432R		71-00-02	6-2	65	2
NAS1149C0432R		71-00-02	6-3	45	8
NAS1149C0432R		71-00-02	6-3	85	8
NAS1149C0432R		71-00-02	9-2	15	-
NAS1149C0432R		71-00-02	9-2	17	-
NAS1149C0432R		71-00-02	12-2	89B	2
NAS1149C0432R		71-00-02	12-3	290	2
NAS1149C0463R		71-00-01	2-1	15	6
NAS1149C0463R		71-00-02	3-1	20	6
NAS1149C0463R		71-00-02	3-2	50	8
NAS1149C0463R		71-00-02	3-2	50	10
NAS1149C0463R		71-00-02	3-4	40	-
NAS1149C0463R		71-00-02	3-4	100	AR
NAS1149C0463R		71-00-02	4-1	15	2
NAS1149C0463R		71-00-02	8-5	45	3
NAS1149C0463R		71-00-02	8-5	80	2
NAS1149C0463R		71-00-02	8-5	115	2
NAS1149C0463R		71-00-02	10-2	15	2
NAS1149C0463R		71-00-02	12-3	165	2
NAS1149C0463R		71-00-02	12-3	235	2
NAS1149C0463R		71-00-02	13-2	10	2
NAS1149C0563R		71-00-02	8-1	52	2
NAS1149C0563R		71-00-02	11-1	120	4
NAS1149C0663R		71-00-02	3-3	303D	1
NAS1149C0663R		71-00-02	6-1	24	2
NAS1149C0663R		71-00-02	12-3	205	1
NAS1149C0763R		71-00-02	5-3	95	1
NAS1149C0963R		71-00-02	4-4	315	-
NAS1149C0963R		71-00-02	4-4	321	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
NAS1149C0963R		71-00-02	4-4	435	1
NAS1149C0963R		71-00-02	5-1	4	1
NAS1149C0963R		71-00-02	8-1	115	1
NAS1149C0963R		71-00-02	12-2	190	-
NAS1149C1063R		71-00-02	6-1	35	2
NAS1149C1290R		71-00-02	4-4	8	-
NAS1149C1290R		71-00-02	8-1	100	1
NAS1149C1490R		71-00-02	12-5	10	1
NAS1149C1790R		71-00-02	4-4	10	-
NAS1149C1790R		71-00-02	4-4	35	-
NAS1149C1790R		71-00-02	8-1	60	1
NAS1149D0332J		71-00-02	12-2	150	2
NAS1149D0332J		71-00-02	12-2	221	2
NAS1149D0363J		71-00-01	2-1	30	2
NAS1149F0463P		71-00-02	3-1	45	2
NAS1149F0463P		71-00-02	3-2	170	2
NAS1587-4C		71-00-02	13-1	25	16
NAS1587-4C		71-00-02	13-1	35	66
NAS1611-111A		71-00-01	1-1	45	1
NAS1611-212A		71-00-01	1-1	10	1
NAS1612-16A		71-00-01	1-1	15	1
NAS1612-20A		71-00-01	1-1	30	1
NAS1612-8A		71-00-01	1-1	40	1
NAS1762J1216		71-00-02	11-1	40	-
NAS1922-0050-3		71-00-02	9-3	155	2
NAS43DD3-102FC		71-00-02	12-2	140	2
NAS43DD3-55FC		71-00-02	12-2	220	2
OMP2505-6PS		71-00-02	8-1	145	-
OMP2506-19		71-00-02	8-1	105	-
OMP2506-6PS		71-00-02	8-1	140	-
OMP2592-10		71-00-02	8-1	90	-
PBF1629		71-00-02	8-3	25	6

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
RC2769-1		71-00-02	3-1	100	1
RC2769-1		71-00-02	3-2	100	1
SLR4063		71-00-02	2-2	55	-
SLR414C14		71-00-02	2-2	55	4
SL4077B		71-00-02	2-2	60	-
SL4081C14		71-00-02	2-2	60	4
SL4107C14-5		71-00-02	2-2	60	-
SL4122CA14-36		71-00-02	2-1	-75	2
S210T120-101		71-00-02	12-3	5	-
S210T120-101		71-00-02	12-3	25	-
S210T120-111		71-00-02	12-3	5	-
S210T120-111		71-00-02	12-3	25	-
S210T120-116		71-00-02	12-3	115	-
S210T120-126		71-00-02	12-3	115	1
S210T120-131		71-00-02	12-3	5	-
S210T120-131		71-00-02	12-3	25	-
S210T120-141		71-00-02	12-3	5	1
S210T120-141		71-00-02	12-3	25	1
S210T120-162		71-00-02	12-2	55	-
S210T120-182		71-00-02	12-2	55	-
S210T120-22		71-00-02	12-2	15	-
S210T120-222		71-00-02	12-2	55	1
S210T120-32		71-00-02	12-2	15	-
S210T120-506		71-00-02	12-3	115	-
S210T120-516		71-00-02	12-3	115	-
S210T120-52		71-00-02	12-2	15	1
S210T120-76		71-00-02	12-3	115	-
S210T120-86		71-00-02	12-3	115	-
S270T202-1		71-00-02	11-1	32	1
S270T230-21		71-00-02	11-1	25	1
S270T252-7		71-00-02	11-1	50	1
S281T001-13		71-00-02	8-1	5	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
S315T367-4		71-00-02	12-1	20	-
S315T367-6		71-00-02	12-1	20	-
S332N303-14		71-00-02	8-4	10	1
S332T001-11		71-00-02	8-3	10	1
S332T001-14		71-00-02	8-3	5	-
S332T001-17		71-00-02	8-3	5	1
S332T002-1		71-00-02	8-4	25	-
S332T002-11		71-00-02	8-4	25	-
S332T002-13		71-00-02	8-4	25	1
S332T002-8		71-00-02	8-4	25	-
S332T004-22		71-00-02	5-3	35	-
S332T004-23		71-00-02	5-2	5	-
S332T004-33		71-00-02	5-3	35	-
S332T004-34		71-00-02	5-2	5	-
S332T004-35		71-00-02	5-3	35	1
S332T004-36		71-00-02	5-2	5	-
S332T006-13		71-00-02	6-2	10	1
S332T101-19		71-00-02	7-2	35	-
S332T101-20		71-00-02	7-2	5	-
S332T101-21		71-00-02	7-2	95	1
S332T101-22		71-00-02	7-2	65	1
S332T101-38		71-00-02	7-2	35	1
S332T304-1		71-00-02	10-1	5	1
S332T305-8		71-00-02	5-3	5	1
S332T305-8		71-00-02	7-3	5	-
S332T305-8		71-00-02	7-3	5	1
S332T461-1		71-00-02	7-3	45	1
S332U280-15		71-00-02	11-1	105	1
S332U280-5		71-00-02	11-1	105	-
S347T001-12		71-00-02	7-1	15	1
TA025041-( )		71-00-02	11-2	55	2
TA025041-( )		71-00-02	11-2	75	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
TA025041-( )		71-00-02	11-2	77	2
TA025041-( )		71-00-02	11-2	80	-
TA025041-( )		71-00-02	11-2	80	5
TA025041-( )		71-00-02	11-2	85	1
TA025041-( )		71-00-02	11-2	90	3
TA025041-( )		71-00-02	11-2	95	1
TA025041-( )		71-00-02	11-2	105	2
TA025041-( )		71-00-02	11-2	110	2
TA025041-( )		71-00-02	11-2	115	2
TA025041-( )		71-00-02	11-2	120	3
TA025041-( )		71-00-02	11-2	135	1
TA025041-( )		71-00-02	11-2	140	2
TA025041-( )		71-00-02	11-2	145	2
TA025041-( )		71-00-02	11-2	150	5
TA025041-( )		71-00-02	11-2	155	3
TA025041-( )		71-00-02	11-2	157	2
TA025041-( )		71-00-02	11-2	160	2
TA025041-( )		71-00-02	11-2	165	4
TA025041-( )		71-00-02	11-2	170	2
TA025041-( )		71-00-02	11-2	172	1
TA025041-( )		71-00-02	11-2	180	1
TA025041-( )		71-00-02	11-2	185	3
TA025041-( )		71-00-02	11-2	187	1
TA025041-( )		71-00-02	11-2	190	1
TA025041-( )		71-00-02	11-2	195	7
TA025041-( )		71-00-02	11-2	200	1
TA025041-( )		71-00-02	11-2	205	1
TA025041-( )		71-00-02	11-2	210	1
TA025041-( )		71-00-02	11-2	215	1
TA025041-( )		71-00-02	11-2	225	2
TA025041-( )		71-00-02	11-2	230	5
TA025041-( )		71-00-02	11-2	235	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
TA025041-( )		71-00-02	11-2	245	1
TA025041-( )		71-00-02	11-2	250	2
TA025041-( )		71-00-02	11-2	255	2
TA025041-( )		71-00-02	11-2	257	2
TA025041-( )		71-00-02	11-2	260	2
TA025041-( )		71-00-02	11-2	265	1
TA025041-( )		71-00-02	11-2	270	5
TA025041-( )		71-00-02	11-2	275	-
TA025041-( )		71-00-02	11-2	275	1
TA025041-( )		71-00-02	11-2	280	-
TA025041-( )		71-00-02	11-2	280	2
TA025041-( )		71-00-02	11-2	285	-
TA025041-( )		71-00-02	11-2	290	-
TA025041-( )		71-00-02	11-2	290	3
TA025041-( )		71-00-02	11-2	295	4
TA025041-( )		71-00-02	11-2	300	2
TA025041-( )		71-00-02	10-3		2
TA025041-( )		71-00-02	10-3	15	1
TA025041-( )		71-00-02	10-3	20	3
TA025041-( )		71-00-02	10-3	25	2
TA025041-( )		71-00-02	10-3	30	1
TA025041-( )		71-00-02	10-3	35	2
TA025041-( )		71-00-02	10-3	40	1
TA025041-( )		71-00-02	10-3	45	2
TA025041-( )		71-00-02	10-3	55	1
TA025041-( )		71-00-02	10-3	60	3
TA025041-( )		71-00-02	10-3	65	1
TA025041-( )		71-00-02	10-4	15	1
TA025041-( )		71-00-02	10-4	20	1
TA025041-( )		71-00-02	10-4	25	1
TA025041-( )		71-00-02	10-4	30	2
TA025041-( )		71-00-02	10-4	35	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
TA025041-( )		71-00-02	10-4	40	1
TA025041-( )		71-00-02	10-4	45	1
TA025041-( )		71-00-02	10-4	60	1
TA025041-( )		71-00-02	10-4	65	1
TA025041-( )		71-00-02	10-4	75	3
TA025041-( )		71-00-02	10-4	80	2
TA025041-( )		71-00-02	10-4	90	1
TA025041-( )		71-00-02	10-4	100	1
TA025041-( )		71-00-02	10-4	105	3
TA025041-( )		71-00-02	10-4	110	1
TA025041-( )		71-00-02	12-2	91B	3
TA025041-106		71-00-02	10-4		1
TA027016-04		71-00-02	5-2	65	-
TA027016-04		71-00-02	5-3	120	2
TA027016-06		71-00-02	4-2	40	5
TA027016-06		71-00-02	4-2	169	5
TA027016-06		71-00-02	4-2	215	-
TA027016-06		71-00-02	4-2	215	2
TA027016-06		71-00-02	4-2	300	3
TA027016-06		71-00-02	4-3	265	2
TA027016-06		71-00-02	4-3	265	5
TA027016-06		71-00-02	4-3	265	10
TA027016-06		71-00-02	4-3	300	1
TA027016-06		71-00-02	4-4	245	1
TA027016-06		71-00-02	4-4	332	-
TA027016-06		71-00-02	4-4	360	-
TA027016-06		71-00-02	9-3	55	2
TA027016-06		71-00-02	12-3	108	2
TA027016-06		71-00-02	12-4	25	1
TA027016-08		71-00-02	4-4	330	-
TA027016-08		71-00-02	4-4	330	3
TA027016-08		71-00-02	4-4	470	2

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
TA027016-08		71-00-02	4-4	500	2
TA027016-08		71-00-02	12-5	105	1
TA027016-08		71-00-02	12-5	130	1
TA027016-10		71-00-02	8-2	65	5
TA027016-10		71-00-02	12-5	25	3
TA027016-10		71-00-02	12-5	55	3
TA027016-10		71-00-02	12-5	80	3
TA027016-12		71-00-02	3-3	205	2
TA027016-12		71-00-02	4-4	65	2
TA027016-12		71-00-02	4-4	68	-
TA027016-12		71-00-02	4-4	70	-
TA027016-12		71-00-02	4-4	195	-
TA027016-12		71-00-02	4-4	195	2
TA027016-12		71-00-02	4-4	220	-
TA027016-12		71-00-02	4-4	220	1
TA027016-12		71-00-02	4-4	240	1
TA027016-12		71-00-02	8-2	25	5
TA027016-12		71-00-02	8-2	63	2
TA027016-12		71-00-02	9-3	80	2
TA027016-16		71-00-02	9-3	35	2
TA027016-16		71-00-02	9-3	110	6
TA027016-16		71-00-02	9-3	160	2
TA027016-16		71-00-02	9-3	240	1
TA027016-17		71-00-02	7-3	50	1
TA027016-20		71-00-02	9-3	110	6
TA027016-20		71-00-02	9-3	212	1
TA0310020-12		71-00-02	4-4	570	1
TA0910058-08		71-00-02	4-4	475	1
TA0910058-12		71-00-02	4-4	60	2
TA0910058-14		71-00-02	11-1	55	4
TA0910058-24		71-00-02	11-1	75	4
TA0910058-28		71-00-02	11-1	60	4

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
TA0910058-40		71-00-02	11-1	125	3
TA12800007-01		71-00-02	11-2	125	6
TFE-2X		71-00-02	11-2		1
VAL22019-4		71-00-02	13-1	20	-
VB13025-14		71-00-02	2-1	-75	-
VR1025-400		71-00-02	8-4	15	-
VR1025-400		71-00-02	8-4	30	-
VR1025-400		71-00-02	8-5	15	-
VR1025-400		71-00-02	12-3	107	-
VR1025-550		71-00-02	12-3	-75	-
VR1025-550		71-00-02	12-3	125	-
VR1047-550		71-00-02	12-3	-75	-
VR1047-550		71-00-02	12-3	125	-
106494-10-0120		71-00-02	12-5	45	-
106494-12-0094		71-00-02	4-4	25	-
106494-12-0094		71-00-02	4-4	44	-
106494-12-0140		71-00-02	4-4	25	-
106495-08-0063		71-00-02	4-4	20	-
108062-21		71-00-02	11-1	25	-
144-151-000-101		71-00-02	10-1	5	-
14611-11		71-00-02	8-4	10	-
14611-14		71-00-02	8-4	10	-
14616-14		71-00-02	8-4	10	-
152020-1-20E		71-00-02	11-1	25	-
16135-4		71-00-02	12-2	295	-
2-216V1041-85		71-00-02	9-1	5	-
221-1301-501		71-00-02	9-1	15	-
2320-550		71-00-02	12-3	15	-
2320-550		71-00-02	12-3	35	-
2320-550		71-00-02	12-3	70	-
2703-400		71-00-02	8-4	15	1
2703-400		71-00-02	8-4	30	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
2703-400		71-00-02	8-5	15	2
2703-400		71-00-02	12-3	107	1
2703-550		71-00-02	12-3	-75	-
2703-550		71-00-02	12-3	125	-
286T3502		71-00-02	10-3	5	1
286T3502		71-00-02	10-4	5	1
286T3504		71-00-02	10-3	10	1
286T3504		71-00-02	10-4	10	1
286T3506		71-00-02	11-2	10	1
286T3508		71-00-02	11-2	15	1
286T3510		71-00-02	11-2	20	1
286T3512		71-00-02	11-2	25	1
286T3514		71-00-02	11-2	30	1
286T3516		71-00-02	11-2	35	1
286T3520		71-00-02	11-2	40	1
286T3522		71-00-02	11-2	45	1
286T3538		71-00-02	11-2	50	1
2873-400		71-00-02	8-4	5	-
2873-400		71-00-02	8-4	20	-
2873-400		71-00-02	8-5	10	-
2873-400		71-00-02	12-3	106	-
2873-550		71-00-02	12-3	10	-
2873-550		71-00-02	12-3	30	-
2873-550		71-00-02	12-3	65	-
2873-550		71-00-02	12-3	-76	-
2873-550		71-00-02	12-3	120	-
2873-750		71-00-02	12-3	130	1
3031863-001		71-00-01	1-1	5	-
310T3039-10		71-00-02	2-1	30	1
310T3039-3		71-00-02	2-1	30	-
310T3150-2		71-00-02	2-1	10	1
310T3151-1		71-00-02	2-1	20	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
310T3151-21		71-00-02	2-1	20	-
310T3151-4		71-00-02	2-2	30	2
310T3152-16		71-00-02	2-2	20	2
310T3152-6		71-00-02	2-2	20	-
310T4015-5		71-00-02	3-4	238	1
310T4015-7		71-00-02	3-4	239	1
310T4016-24		71-00-02	3-4	237	1
310T4020-10		71-00-02	2-2	5	-
310T4020-11		71-00-02	2-1	5	-
310T4020-13		71-00-02	2-1	5	-
310T4020-14		71-00-02	2-1	5	-
310T4020-16		71-00-02	2-1	5	-
310T4020-17		71-00-02	2-2	5	-
310T4020-24		71-00-02	2-1	5	1
310T4020-27		71-00-02	2-2	5	1
310T4020-3		71-00-02	2-1	5	-
310T4020-7		71-00-02	2-1	5	-
310T4020-8		71-00-02	2-2	5	-
310T4020-9		71-00-02	2-1	5	-
310T4036-1		71-00-02	2-2	7	-
311A1099-16		71-00-02	2-2	25	-
311A1099-20		71-00-02	2-1	50	2
312T2359-23		71-00-02	8-5	65	1
312T2359-23		71-00-02	12-3	140	1
312T2359-24		71-00-02	3-3	303	1
312T2359-25		71-00-02	8-5	100	1
312T2359-30		71-00-02	8-5	20	1
312T3106-100		71-00-02	12-2	205	-
312T3106-104		71-00-02	12-2	200	2
312T3106-136		71-00-02	12-2	205	1
314T3019-1		71-00-02	13-2	5	2
314T3310-10		71-00-02	13-1	30	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
314T3310-3		71-00-02	13-1	30	-
314T3310-5		71-00-02	13-1	30	-
314T3310-7		71-00-02	13-1	30	-
314T3310-9		71-00-02	13-1	30	-
314T4010-10B		71-00-01	2-1	10	-
314T4010-12B		71-00-01	2-1	10	1
314T4010-6B		71-00-01	2-1	10	-
314T4320-13		71-00-02	13-1	15	-
314T4320-19		71-00-02	13-1	15	1
315T3255-5		71-00-02	10-2	5	1
315T4021-1		71-00-02	10-2	20	1
315T4021-2		71-00-02	10-2	20	-
315T4040-11		71-00-02	12-1	5	-
315T4040-13		71-00-02	12-1	30	-
3202544-1		71-00-02	12-3	115	-
3202544-2		71-00-02	12-3	115	-
3202544-4		71-00-02	12-3	115	-
32465J06-054		71-00-02	7-3	35	1
330N3011-2		71-00-02	13-2	35	60
332T3072-2		71-00-02	6-3	50	1
332T3072-4		71-00-02	6-3	5	1
332T3261-13		71-00-02	9-2	5	1
332T3261-5		71-00-02	9-2	20	1
332T3323-1		71-00-02	8-3	20	-
332T3323-2		71-00-02	8-3	20	1
332T3402-1		71-00-02	9-3	150	1
332T3403-30		71-00-02	9-3	190	-
332T3403-43		71-00-02	9-3	105	-
332T3403-45		71-00-02	9-3	127	-
332T3403-47		71-00-02	9-3	230	1
332T3403-54		71-00-02	9-3	145	-
332T3403-55		71-00-02	9-3	127	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T3403-58		71-00-02	9-3	190	1
332T3403-68		71-00-02	9-3	127	1
332T3403-70		71-00-02	9-3	105	-
332T3403-78		71-00-02	9-3	105	1
332T3403-79		71-00-02	9-3	145	1
332T3405-4		71-00-02	6-2	55	1
332T4210-2		71-00-02	8-1	130	1
332T4210-3		71-00-02	8-1	135	1
332T4211-11		71-00-02	8-1	45	1
332T4211-12		71-00-02	8-1	47	1
332T4211-2		71-00-02	8-1	45	-
332T4211-6		71-00-02	8-1	45	1
332T4230-3		71-00-02	8-2	15	-
332T4230-6		71-00-02	8-2	55	-
332T4230-7		71-00-02	8-2	50	1
332T4230-8		71-00-02	8-2	15	1
332T4230-9		71-00-02	8-2	55	1
332T4240-7		71-00-02	11-2	53	1
332T4313-14		71-00-02	8-5	5	1
332T4315-1		71-00-02	3-4	420	-
332T4315-9		71-00-02	3-4	420	1
332T4320-2		71-00-02	12-3	215	1
332T4320-3		71-00-02	12-3	60	1
332T4321-1		71-00-02	6-1	30	1
332T4322-1		71-00-02	6-1	60	1
332T4323-1		71-00-02	6-1	55	1
332T4324-1		71-00-02	6-1	50	1
332T4325-1		71-00-02	12-3	20	1
332T4326-1		71-00-02	12-3	103	1
332T4327-1		71-00-02	12-3	95	-
332T4327-5		71-00-02	12-3	95	1
332T4334-5		71-00-02	6-1	80	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4334-8		71-00-02	6-1	80	-
332T4334-9		71-00-02	6-1	80	3
332T4340-10		71-00-02	12-2	105	-
332T4340-12		71-00-02	12-2	115	-
332T4340-13		71-00-02	12-2	115	-
332T4340-16		71-00-02	12-2	100	-
332T4340-17		71-00-02	12-2	95	-
332T4340-18		71-00-02	12-2	110	-
332T4340-19		71-00-02	12-2	105	-
332T4340-2		71-00-02	12-2	250	-
332T4340-20		71-00-02	12-2	115	-
332T4340-21		71-00-02	12-2	250	1
332T4340-27		71-00-02	12-2	100	1
332T4340-28		71-00-02	12-2	95	1
332T4340-29		71-00-02	12-2	110	1
332T4340-3		71-00-02	12-2	255	-
332T4340-30		71-00-02	12-2	105	1
332T4340-31		71-00-02	12-2	115	1
332T4340-32		71-00-02	12-2	255	1
332T4340-33		71-00-02	12-2	195	1
332T4340-4		71-00-02	12-2	195	-
332T4340-5		71-00-02	12-2	260	1
332T4340-6		71-00-02	12-2	265	1
332T4340-7		71-00-02	12-2	110	-
332T4340-8		71-00-02	12-2	100	-
332T4340-9		71-00-02	12-2	95	-
332T4341-1		71-00-02	12-2	60	1
332T4341-12		71-00-02	12-2	60	-
332T4341-9		71-00-02	12-2	60	1
332T4362-1		71-00-02	6-1	5	1
332T4362-1		71-00-02	6-1	10	1
332T4364-1		71-00-02	3-4	80	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4364-2		71-00-02	3-4	75	1
332T4364-3		71-00-02	3-4	80	1
332T4365-1		71-00-02	3-3	350	1
332T4451-10		71-00-02	5-3	110	-
332T4451-11		71-00-02	5-3	100	-
332T4451-12		71-00-02	5-3	105	1
332T4451-13		71-00-02	5-3	100	1
332T4451-24		71-00-02	5-3	57	-
332T4451-25		71-00-02	5-3	57A	-
332T4451-26		71-00-02	5-3	60	1
332T4451-28		71-00-02	5-3	110	1
332T4451-32		71-00-02	5-3	57	1
332T4451-33		71-00-02	5-3	60	1
332T4451-34		71-00-02	5-3	57A	1
332T4451-8		71-00-02	5-3	60	-
332T4451-9		71-00-02	5-3	57	-
332T4453-3		71-00-02	5-2	45	-
332T4453-4		71-00-02	5-2	50	-
332T4461-2		71-00-02	7-3	45	-
332T4470-11		71-00-02	9-3	10	-
332T4470-11		71-00-02	9-3	10	1
332T4470-12		71-00-02	9-3	20	-
332T4470-15		71-00-02	9-3	65	1
332T4470-20		71-00-02	9-3	180	-
332T4470-30		71-00-02	9-3	20	1
332T4470-31		71-00-02	9-3	180	1
332T4521-17		71-00-02	5-1	95	-
332T4521-2		71-00-02	5-1	5	-
332T4521-38		71-00-02	3-4	171	-
332T4521-39		71-00-02	3-4	170	1
332T4521-48		71-00-02	5-1	40	-
332T4521-53		71-00-02	5-1	5	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4521-54		71-00-02	5-1	40	1
332T4521-75		71-00-02	5-1	95	1
332T4530-5		71-00-02	12-5	50	1
332T4531-1		71-00-02	12-5	5	1
332T4531-12		71-00-02	12-5	125	1
332T4531-15		71-00-02	12-5	75	1
332T4531-17		71-00-02	12-5	20	-
332T4531-20		71-00-02	12-5	100	-
332T4531-22		71-00-02	12-5	100	1
332T4531-24		71-00-02	12-5	20	1
332T4531-3		71-00-02	12-5	100	-
332T4710-106		71-00-02	4-2	155	-
332T4710-11		71-00-02	4-3	210	1
332T4710-116		71-00-02	4-2	345	1
332T4710-117		71-00-02	4-2	295	1
332T4710-122		71-00-02	4-2	95	1
332T4710-123		71-00-02	4-2	147	1
332T4710-124		71-00-02	4-2	90	1
332T4710-125		71-00-02	4-2	160	1
332T4710-126		71-00-02	4-2	150	1
332T4710-129		71-00-02	4-3	295	1
332T4710-130		71-00-02	4-2	205B	1
332T4710-132		71-00-02	4-2	30	1
332T4710-133		71-00-02	4-2	15	1
332T4710-134		71-00-02	4-2	155	1
332T4710-135		71-00-02	4-3	232	-
332T4710-136		71-00-02	4-3	232	-
332T4710-137		71-00-02	4-3	230	-
332T4710-138		71-00-02	4-4	450	1
332T4710-139		71-00-02	4-4	460	1
332T4710-140		71-00-02	4-4	495	1
332T4710-141		71-00-02	4-4	20	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4710-142		71-00-02	4-4	315	1
332T4710-143		71-00-02	4-4	310	1
332T4710-144		71-00-02	4-4	190	-
332T4710-145		71-00-02	4-4	215	-
332T4710-146		71-00-02	4-3	232	1
332T4710-147		71-00-02	4-3	230	1
332T4710-148		71-00-02	4-4	190	-
332T4710-149		71-00-02	4-4	190	1
332T4710-150		71-00-02	4-4	215	1
332T4710-18		71-00-02	4-4	60	-
332T4710-19		71-00-02	4-4	45	-
332T4710-23		71-00-02	4-2	15	-
332T4710-25		71-00-02	4-2	150	-
332T4710-26		71-00-02	4-2	95	-
332T4710-28		71-00-02	4-2	155	-
332T4710-29		71-00-02	4-2	110	-
332T4710-32		71-00-02	4-2	250	1
332T4710-33		71-00-02	4-4	355	-
332T4710-35		71-00-02	4-2	147	-
332T4710-37		71-00-02	4-2	205	-
332T4710-38		71-00-02	4-4	330	-
332T4710-39		71-00-02	4-4	350	-
332T4710-44		71-00-02	4-2	90	-
332T4710-46		71-00-02	4-3	230	-
332T4710-47		71-00-02	4-3	232	-
332T4710-48		71-00-02	4-2	205	-
332T4710-5		71-00-02	8-1	155	-
332T4710-50		71-00-02	4-4	190	-
332T4710-51		71-00-02	4-4	16	-
332T4710-52		71-00-02	4-4	32	-
332T4710-53		71-00-02	4-4	40	-
332T4710-54		71-00-02	4-4	52	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4710-55		71-00-02	4-2	370	-
332T4710-56		71-00-02	4-2	345	-
332T4710-57		71-00-02	4-3	235	-
332T4710-58		71-00-02	4-3	260	-
332T4710-59		71-00-02	4-2	25	1
332T4710-60		71-00-02	4-2	160	-
332T4710-61		71-00-02	4-2	295	-
332T4710-62		71-00-02	4-2	270	1
332T4710-63		71-00-02	4-4	215	-
332T4710-66		71-00-02	4-4	40	-
332T4710-67		71-00-02	4-2	90	-
332T4710-68		71-00-02	4-4	32	-
332T4710-70		71-00-02	4-3	205	-
332T4710-71		71-00-02	4-3	206	1
332T4710-73		71-00-02	4-2	90	-
332T4710-75		71-00-02	8-1	155	1
332T4710-76		71-00-02	4-2	370	1
332T4710-77		71-00-02	4-3	230	-
332T4710-78		71-00-02	4-3	232	-
332T4710-79		71-00-02	4-2	205	-
332T4710-8		71-00-02	4-3	295	-
332T4710-81		71-00-02	4-2	15	-
332T4710-85		71-00-02	4-3	205	1
332T4710-86		71-00-02	4-4	16	-
332T4710-88		71-00-02	4-4	52	-
332T4710-90		71-00-02	4-4	40	-
332T4710-92		71-00-02	4-4	32	-
332T4710-93		71-00-02	4-3	230	-
332T4710-94		71-00-02	4-3	260	1
332T4711-1		71-00-02	4-4	30	1
332T4711-1		71-00-02	4-4	48	-
332T4712-12		71-00-02	4-1	5	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4712-13		71-00-02	4-1	5	-
332T4712-15		71-00-02	4-1	5	-
332T4712-17		71-00-02	4-1	5	-
332T4712-19		71-00-02	4-1	5	-
332T4712-21		71-00-02	4-1	5	1
332T4723-1		71-00-02	4-4	10	1
332T4723-10		71-00-02	4-4	325	-
332T4723-10		71-00-02	4-4	330	-
332T4723-3		71-00-02	4-4	5	1
332T4723-7		71-00-02	4-4	325	-
332T4730-17		71-00-02	12-4	5	1
332T4730-6		71-00-02	12-4	5	-
332T4921-136		71-00-02	3-4	185	-
332T4921-143		71-00-02	3-3	190	-
332T4921-157		71-00-02	3-3	120	-
332T4921-167		71-00-02	3-3	300	-
332T4921-172		71-00-02	3-4	190	-
332T4921-186		71-00-02	3-3	190	-
332T4921-188		71-00-02	3-4	190	-
332T4921-190		71-00-02	3-4	185	1
332T4921-197		71-00-02	3-3	380	1
332T4921-201		71-00-02	3-3	90	-
332T4921-207		71-00-02	3-4	70	-
332T4921-208		71-00-02	3-4	445	1
332T4921-213		71-00-02	3-3	355	-
332T4921-215		71-00-02	3-4	107	1
332T4921-219		71-00-02	3-3	90	-
332T4921-223		71-00-02	3-3	300	-
332T4921-235		71-00-02	3-3	120	-
332T4921-241		71-00-02	3-3	300	-
332T4921-244		71-00-02	3-3	190	-
332T4921-246		71-00-02	3-3	304	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4921-248		71-00-02	3-3	305	-
332T4921-251		71-00-02	3-3	90	1
332T4921-256		71-00-02	3-3	120	-
332T4921-264		71-00-02	3-4	107	-
332T4921-267		71-00-02	3-3	557	1
332T4921-271		71-00-02	3-3	230	1
332T4921-286		71-00-02	3-3	500	1
332T4921-290		71-00-02	3-3	120	1
332T4921-291		71-00-02	3-4	107	-
332T4921-293		71-00-02	3-4	70	1
332T4921-294		71-00-02	3-3	190	1
332T4921-295		71-00-02	3-3	90	-
332T4921-296		71-00-02	3-4	190	1
332T4921-299		71-00-02	3-4	107	1
332T4921-300		71-00-02	3-3	305	-
332T4921-303		71-00-02	3-3	150	1
332T4921-309		71-00-02	3-3	305	1
332T4921-312		71-00-02	3-4	47	1
332T4921-316		71-00-02	3-3	300	1
332T4921-319		71-00-02	3-3	125A	1
332T4921-325		71-00-02	3-3	600	-
332T4921-327		71-00-02	3-4	115	1
332T4921-334		71-00-02	3-3	73	1
332T4921-338		71-00-02	3-4	470	1
332T4921-340		71-00-02	3-3	600	1
332T4921-45		71-00-02	3-3	305	-
332T4921-48		71-00-02	3-3	304	-
332T4921-54		71-00-02	3-3	395	1
332T4921-94		71-00-02	3-3	304A	-
332T4922-1		71-00-02	3-3	500	-
332T4922-109		71-00-02	3-4	55	-
332T4922-118		71-00-02	3-4	255	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4922-144		71-00-02	3-3	110	1
332T4922-146		71-00-02	3-3	260	-
332T4922-150		71-00-02	3-1	125	-
332T4922-166		71-00-02	3-4	310	1
332T4922-194		71-00-02	3-2	60	1
332T4922-197		71-00-02	3-4	5	-
332T4922-202		71-00-02	3-3	126	-
332T4922-204		71-00-02	3-3	445	1
332T4922-225		71-00-02	3-4	115	1
332T4922-227		71-00-02	3-4	125	-
332T4922-232		71-00-02	3-3	385	-
332T4922-236		71-00-02	3-3	520	1
332T4922-237		71-00-02	3-4	15	-
332T4922-246		71-00-02	3-4	130	-
332T4922-247		71-00-02	3-4	135	-
332T4922-248		71-00-02	3-4	165	1
332T4922-254		71-00-02	3-3	360	1
332T4922-256		71-00-02	3-3	320	-
332T4922-262		71-00-02	3-4	250	-
332T4922-27		71-00-02	3-2	85	-
332T4922-276		71-00-02	3-2	15	1
332T4922-277		71-00-02	3-3	131	-
332T4922-280		71-00-02	3-3	115	-
332T4922-281		71-00-02	3-3	130	-
332T4922-286		71-00-02	3-4	320	-
332T4922-291		71-00-02	3-1	80	1
332T4922-291		71-00-02	3-1	85	1
332T4922-292		71-00-02	6-3	60	1
332T4922-293		71-00-02	6-3	10	-
332T4922-300		71-00-02	3-4	120	1
332T4922-304		71-00-02	3-4	140	-
332T4922-307		71-00-02	11-1	110	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4922-309		71-00-02	3-2	20	1
332T4922-312		71-00-02	3-3	40	1
332T4922-317		71-00-02	3-3	85	-
332T4922-324		71-00-02	3-1	55	-
332T4922-326		71-00-02	3-4	10	-
332T4922-327		71-00-02	3-1	90	-
332T4922-327		71-00-02	3-1	95	-
332T4922-327		71-00-02	3-2	90	-
332T4922-327		71-00-02	3-2	95	-
332T4922-333		71-00-02	3-2	10	1
332T4922-335		71-00-02	3-3	180	-
332T4922-339		71-00-02	3-1	55	1
332T4922-340		71-00-02	3-2	60	1
332T4922-341		71-00-02	3-1	30	-
332T4922-342		71-00-02	6-3	55	1
332T4922-344		71-00-02	3-4	280	1
332T4922-347		71-00-02	3-4	380	1
332T4922-351		71-00-02	3-3	245	-
332T4922-353		71-00-02	3-2	125	-
332T4922-354		71-00-02	3-3	685	1
332T4922-356		71-00-02	3-4	50	-
332T4922-358		71-00-02	3-3	680	1
332T4922-365		71-00-02	3-3	63	1
332T4922-369		71-00-02	3-4	295	1
332T4922-370		71-00-02	3-3	555	-
332T4922-370		71-00-02	3-4	415	-
332T4922-371		71-00-02	3-4	415	-
332T4922-373		71-00-02	6-3	20	1
332T4922-375		71-00-02	3-3	485	-
332T4922-385		71-00-02	3-3	5	1
332T4922-390		71-00-02	3-3	265	-
332T4922-391		71-00-02	3-3	60	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4922-392		71-00-02	3-3	410	-
332T4922-395		71-00-02	3-3	660	1
332T4922-396		71-00-02	3-3	390	1
332T4922-397		71-00-02	3-3	97	1
332T4922-399		71-00-02	3-3	327	1
332T4922-400		71-00-02	3-3	105	-
332T4922-401		71-00-02	3-3	381	-
332T4922-402		71-00-02	3-3	100	1
332T4922-405		71-00-02	3-3	255	-
332T4922-407		71-00-02	3-3	95	-
332T4922-410		71-00-02	3-3	320	1
332T4922-413		71-00-02	3-4	350	1
332T4922-414		71-00-02	3-4	315	-
332T4922-416		71-00-02	3-4	345	1
332T4922-424		71-00-02	3-3	385	1
332T4922-425		71-00-02	6-2	15	1
332T4922-43		71-00-02	3-1	5	3
332T4922-43		71-00-02	3-2	5	2
332T4922-431		71-00-02	3-2	60	-
332T4922-433		71-00-02	3-2	20	-
332T4922-434		71-00-02	3-2	150	1
332T4922-436		71-00-02	3-2	5	2
332T4922-437		71-00-02	3-4	290	-
332T4922-439		71-00-02	3-4	260	1
332T4922-445		71-00-02	3-2	130	-
332T4922-445		71-00-02	3-2	140	-
332T4922-447		71-00-02	3-2	135	-
332T4922-448		71-00-02	3-2	133	-
332T4922-450		71-00-02	3-4	50	-
332T4922-452		71-00-02	6-1	63	-
332T4922-456		71-00-02	3-3	430	1
332T4922-458		71-00-02	3-3	250	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4922-460		71-00-02	3-3	500	-
332T4922-461		71-00-02	3-4	440	1
332T4922-464		71-00-02	3-3	480	-
332T4922-466		71-00-02	3-3	310	-
332T4922-467		71-00-02	3-4	115	1
332T4922-469		71-00-02	3-4	17	1
332T4922-472		71-00-02	3-2	155	1
332T4922-475		71-00-02	3-4	147	AR
332T4922-476		71-00-02	3-4	148	AR
332T4922-478		71-00-02	3-4	600	-
332T4922-479		71-00-02	3-3	95	-
332T4922-485		71-00-02	3-3	485	-
332T4922-487		71-00-02	3-3	125	-
332T4922-494		71-00-02	3-4	5	1
332T4922-495		71-00-02	3-3	255	-
332T4922-496		71-00-02	3-3	265	-
332T4922-499		71-00-02	3-3	115	1
332T4922-54		71-00-02	3-4	110	1
332T4922-55		71-00-02	3-3	530	1
332T4922-601		71-00-02	3-3	250	-
332T4922-602		71-00-02	6-3	10	-
332T4922-604		71-00-02	3-3	95	1
332T4922-606		71-00-02	3-3	410	1
332T4922-610		71-00-02	3-3	555	-
332T4922-610		71-00-02	3-4	415	-
332T4922-616		71-00-02	3-3	250	1
332T4922-618		71-00-02	3-1	125	-
332T4922-621		71-00-02	3-3	265	-
332T4922-623		71-00-02	3-2	130	1
332T4922-623		71-00-02	3-2	140	1
332T4922-625		71-00-02	3-2	133	1
332T4922-626		71-00-02	3-2	135	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4922-629		71-00-02	6-3	10	1
332T4922-630		71-00-02	3-3	555	1
332T4922-630		71-00-02	3-4	415	1
332T4922-632		71-00-02	3-4	320	1
332T4922-637		71-00-02	3-4	120	-
332T4922-639		71-00-02	3-3	255	-
332T4922-640		71-00-02	3-3	220	-
332T4922-641		71-00-02	3-3	221	1
332T4922-642		71-00-02	3-3	255	-
332T4922-644		71-00-02	3-1	30	1
332T4922-646		71-00-02	3-2	85	1
332T4922-647		71-00-02	3-4	122	1
332T4922-652		71-00-02	3-2	60	1
332T4922-653		71-00-02	3-2	20	1
332T4922-657		71-00-02	3-1	125	1
332T4922-658		71-00-02	3-3	255	-
332T4922-659		71-00-02	3-4	285	1
332T4922-660		71-00-02	3-3	255	1
332T4922-661		71-00-02	3-4	140	1
332T4922-663		71-00-02	3-3	125A	-
332T4922-664		71-00-02	3-3	125	-
332T4922-665		71-00-02	3-3	558	-
332T4922-668		71-00-02	3-3	265	-
332T4922-672		71-00-02	3-1	90	-
332T4922-672		71-00-02	3-1	95	-
332T4922-672		71-00-02	3-2	90	-
332T4922-672		71-00-02	3-2	95	-
332T4922-673		71-00-02	3-1	90	-
332T4922-673		71-00-02	3-1	95	-
332T4922-673		71-00-02	3-2	90	-
332T4922-673		71-00-02	3-2	95	-
332T4922-674		71-00-02	3-3	265	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4922-676		71-00-02	3-3	260	1
332T4922-677		71-00-02	3-1	90	1
332T4922-677		71-00-02	3-1	95	1
332T4922-677		71-00-02	3-2	90	1
332T4922-677		71-00-02	3-2	95	1
332T4922-678		71-00-02	3-3	125	-
332T4922-680		71-00-02	4-4	505	1
332T4922-681		71-00-02	3-3	220	-
332T4922-685		71-00-02	12-3	104	1
332T4922-686		71-00-02	12-3	105	1
332T4922-692		71-00-02	3-3	558	1
332T4922-694		71-00-02	3-3	125	1
332T4922-696		71-00-02	3-3	126	1
332T4922-697		71-00-02	3-3	220	1
332T4922-698		71-00-02	3-4	500	1
332T4922-699		71-00-02	3-3	180	-
332T4922-701		71-00-02	3-4	315	1
332T4922-722		71-00-02	3-3	180	1
332T4922-89		71-00-02	6-2	20	1
332T4922-91		71-00-02	3-4	285	-
332T4922-92		71-00-02	3-3	375	1
332T4922-96		71-00-02	3-3	465	1
332T4923-11		71-00-02	3-4	210	1
332T4923-4		71-00-02	3-4	210	-
332T4923-5		71-00-02	3-4	213	-
332T4923-8		71-00-02	3-4	210	-
332T4923-9		71-00-02	3-4	213	1
332T4924-1		71-00-02	3-4	410	1
332T4925-1		71-00-02	3-3	60	-
332T4925-10		71-00-02	3-4	145	1
332T4925-13		71-00-02	3-4	600	-
332T4925-16		71-00-02	3-4	615	1

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
332T4925-18		71-00-02	3-4	570	-
332T4925-20		71-00-02	3-2	125	-
332T4925-24		71-00-02	3-3	310	1
332T4925-25		71-00-02	3-3	381	-
332T4925-27		71-00-02	3-2	125	-
332T4925-29		71-00-02	3-3	500	-
332T4925-3		71-00-02	3-4	50	-
332T4925-31		71-00-02	3-4	255	1
332T4925-32		71-00-02	3-4	50	-
332T4925-4		71-00-02	3-3	105	-
332T4925-40		71-00-02	3-4	600	1
332T4925-44		71-00-02	3-3	381	1
332T4925-51		71-00-02	3-3	60	-
332T4925-52		71-00-02	3-2	125	-
332T4925-59		71-00-02	3-3	480	-
332T4925-61		71-00-02	3-3	481	1
332T4925-77		71-00-02	3-3	480	1
332T4925-90		71-00-02	3-3	60	1
332T4925-91		71-00-02	3-2	125	1
332W3922-254		71-00-02	3-4	250	1
333T4000-2		71-00-02	13-1	50	2
3500080-3		71-00-02	8-3	10	-
3501628-1		71-00-02	8-3	15	-
3505436-6-1		71-00-02	8-3	5	-
3505436-7		71-00-02	8-3	5	-
350880-6		71-00-01	1-1	5	-
40575		71-00-02	7-1	10	-
418-01124		71-00-02	5-3	5	-
418-01124		71-00-02	7-3	5	-
472565		71-00-02	7-2	65	-
472566		71-00-02	7-2	95	-
472567		71-00-02	7-2	5	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
472568		71-00-02	7-2	35	-
472568-1		71-00-02	7-2	35	-
485000-14		71-00-01	1-1	25	1
49M1131-101		71-00-02	5-1	130	-
49M1144-301		71-00-02	5-1	130	1
5238		71-00-02	9-3	200	2
60B00200-12		71-00-01	1-1	5	1
60B00200-5		71-00-01	1-1	5	-
60B40161-18		71-00-02	8-1	25	-
60B40161-22		71-00-02	8-1	25	-
60B40161-26		71-00-02	8-1	25	-
60B40161-30		71-00-02	8-1	25	1
60B40161-5		71-00-02	8-1	25	-
60B90135-4		71-00-02	12-2	295	1
614U51-0038-2		71-00-02	6-1	45	4
624AG5HD		71-00-02	9-1	20	4
6329D0001-01		71-00-02	12-1	20	-
6329F0001-01		71-00-02	12-1	20	-
6354-750		71-00-02	12-3	135	1
65B80254-115		71-00-02	12-2	120	1
65B80254-158		71-00-02	12-2	125	2
65B80254-67		71-00-02	12-2	130	2
69B90018-1		71-00-02	5-1	20	1
69B90018-1		71-00-02	5-1	55	1
69B90018-1		71-00-02	5-1	75	1
69B90191-2		71-00-02	9-1	15	-
69B90191-4		71-00-02	9-1	15	1
69B91183-1		71-00-02	7-3	15	-
69B91183-1		71-00-02	7-3	15	1
69B97200-3		71-00-02	13-1	5	1
730842B		71-00-02	8-1	5	-
745329		71-00-02	8-1	25	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
745329B		71-00-02	8-1	25	-
745329C		71-00-02	8-1	25	-
745329E		71-00-02	8-1	25	-
745329F		71-00-02	8-1	25	-
77-109-13		71-00-02	6-2	10	-
773289-15		71-00-02	12-2	15	-
773289-3		71-00-02	12-2	15	-
773289-7		71-00-02	12-2	15	-
773856-13		71-00-02	12-3	115	-
773856-14		71-00-02	12-3	115	-
773856-15		71-00-02	12-3	115	-
790270-1		71-00-02	12-3	5	-
790270-1		71-00-02	12-3	25	-
790270-2		71-00-02	12-3	5	-
790270-2		71-00-02	12-3	25	-
792755-14		71-00-02	12-2	55	-
792755-16		71-00-02	12-2	55	-
792755-6		71-00-02	12-2	55	-
792755-8		71-00-02	12-2	55	-
8D1370		71-00-02	5-3	35	-
8D1371		71-00-02	5-2	5	-
8D1469		71-00-02	5-2	5	-
8D1473		71-00-02	5-3	35	-
8D1494		71-00-02	5-3	35	-
8D1495		71-00-02	5-2	5	-
8TJ124GGN3		71-00-02	7-1	15	-
802170-1		71-00-02	12-3	5	-
802170-1		71-00-02	12-3	25	-
802170-10		71-00-02	12-3	5	-
802170-10		71-00-02	12-3	25	-
802170-4		71-00-02	12-3	5	-
802170-4		71-00-02	12-3	25	-

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PART NUMBER	AIRLINE PART NUMBER	LOCATION			QTY
		SUBJECT	FIG	ITEM	
802170-6		71-00-02	12-3	5	-
802170-6		71-00-02	12-3	25	-
808556-1		71-00-02	12-3	115	-
83707		71-00-02	8-2	T1	-
86-4101-1		71-00-02	8-1	90	1
86-4101-2		71-00-02	8-1	145	1
86-4102-1		71-00-02	8-1	105	1
86-4102-2		71-00-02	8-1	140	1
887673		71-00-01	1-1	5	-
9R3324		71-00-02	11-1	50	-
9216-797		71-00-02	9-1	5	1
979858-1		71-00-02	8-4	25	-
979858-2		71-00-02	8-4	25	-
979858-3		71-00-02	8-4	25	-
979858-5		71-00-02	8-4	25	-

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**CHAPTER**

**71**

**POWERPLANT  
BUILDUP**

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1 thru 6	Jun 01/2009		4	Dec 03/2007		18	Dec 03/2007	
71-CONTENTS			5	Oct 01/2008		19	Dec 03/2007	
1	Dec 03/2007		6	Dec 03/2007		20	BLANK	
2	Oct 01/2008		7	Feb 01/2008		71-00-02 P/P BUILDUP FIGURE 3-3		
3	Dec 03/2007		8	BLANK		1	Jun 01/2008	
4	BLANK		71-00-02 P/P BUILDUP FIGURE 3-1			2	Dec 03/2007	
71-00-01 P/P BUILDUP FIGURE 1-1			1	Jun 01/2008		3	Dec 03/2007	
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2	Dec 03/2007		3	Feb 01/2008		5	Dec 03/2007	
3	Oct 01/2008		4	Dec 03/2007		6	Dec 03/2007	
4	Dec 03/2007		5	Feb 01/2008		7	Dec 03/2007	
5	Oct 01/2008		6	Dec 03/2007		8	Dec 03/2007	
6	BLANK		7	Feb 01/2008		9	Dec 03/2007	
71-00-01 P/P BUILDUP FIGURE 2-1			8	Dec 03/2007		10	Dec 03/2007	
1	Jun 01/2008		9	Dec 03/2007		11	Dec 03/2007	
2	Dec 03/2007		10	Dec 03/2007		12	Dec 03/2007	
3	Dec 03/2007		11	Dec 03/2007		13	Dec 03/2007	
4	BLANK		12	Dec 03/2007		14	Dec 03/2007	
71-00-02 SUBJECT INDEX FIGURE 1-1			13	Dec 03/2007		15	Dec 03/2007	
1	Dec 03/2007		14	BLANK		16	Dec 03/2007	
2	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 3-2			17	Dec 03/2007	
3	Jun 01/2008		1	Jun 01/2008		18	Dec 03/2007	
4	Jun 01/2008		2	Dec 03/2007		19	Dec 03/2007	
5	Jun 01/2008		3	Dec 03/2007		20	Dec 03/2007	
6	BLANK		4	Dec 03/2007		21	Dec 03/2007	
71-00-02 P/P BUILDUP FIGURE 2-1			5	Dec 03/2007		22	Dec 03/2007	
1	Jun 01/2008		6	Dec 03/2007		23	Feb 01/2008	
2	Dec 03/2007		7	Dec 03/2007		24	Dec 03/2007	
3	Oct 01/2008		8	Dec 03/2007		25	Jun 01/2008	
4	Dec 03/2007		9	Dec 03/2007		26	Dec 03/2007	
5	Dec 03/2007		10	Dec 03/2007		27	Feb 01/2008	
6	Dec 03/2007		11	Dec 03/2007		28	Dec 03/2007	
7	Oct 01/2008		12	Dec 03/2007		29	Dec 03/2007	
8	BLANK		13	Dec 03/2007		30	Dec 03/2007	
71-00-02 P/P BUILDUP FIGURE 2-2			14	Dec 03/2007		31	Feb 01/2008	
1	Jun 01/2008		15	Dec 03/2007		32	Dec 03/2007	
2	Dec 03/2007		16	Dec 03/2007		33	Jun 01/2008	
3	Dec 03/2007		17	Dec 03/2007		34	Dec 03/2007	

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35	Feb 01/2008		73	Feb 01/2008		32	Dec 03/2007	
36	Dec 03/2007		74	Dec 03/2007		33	Dec 03/2007	
37	Dec 03/2007		75	Dec 03/2007		34	Dec 03/2007	
38	Dec 03/2007		76	Dec 03/2007		35	Dec 03/2007	
39	Dec 03/2007		77	Dec 03/2007		36	Dec 03/2007	
40	Dec 03/2007		78	BLANK		37	Dec 03/2007	
41	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 3-4			38	Dec 03/2007	
42	Dec 03/2007		1	Jun 01/2008		39	Dec 03/2007	
43	Dec 03/2007		2	Dec 03/2007		40	Dec 03/2007	
44	Dec 03/2007		3	Dec 03/2007		41	Oct 01/2008	
45	Dec 03/2007		4	Dec 03/2007		42	Dec 03/2007	
46	Dec 03/2007		5	Dec 03/2007		43	Dec 03/2007	
47	Oct 01/2008		6	Dec 03/2007		44	Dec 03/2007	
48	Dec 03/2007		7	Dec 03/2007		45	Dec 03/2007	
49	Dec 03/2007		8	Dec 03/2007		46	Dec 03/2007	
50	Dec 03/2007		9	Dec 03/2007		47	Dec 03/2007	
51	Dec 03/2007		10	Dec 03/2007		48	Dec 03/2007	
52	Dec 03/2007		11	Dec 03/2007		49	Dec 03/2007	
53	Dec 03/2007		12	Dec 03/2007		50	BLANK	
54	Dec 03/2007		13	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 4-1		
55	Jun 01/2008		14	Dec 03/2007		1	Jun 01/2008	
56	Dec 03/2007		15	Dec 03/2007		2	Dec 03/2007	
57	Dec 03/2007		16	Dec 03/2007		3	Dec 03/2007	
58	Dec 03/2007		17	Dec 03/2007		4	BLANK	
59	Dec 03/2007		18	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 4-2		
60	Dec 03/2007		19	Dec 03/2007		1	Jun 01/2008	
61	Dec 03/2007		20	Dec 03/2007		2	Dec 03/2007	
62	Dec 03/2007		21	Feb 01/2008		3	Dec 03/2007	
63	Dec 03/2007		22	Dec 03/2007		4	Dec 03/2007	
64	Dec 03/2007		23	Dec 03/2007		5	Dec 03/2007	
65	Dec 03/2007		24	Dec 03/2007		6	Dec 03/2007	
66	Dec 03/2007		25	Dec 03/2007		7	Dec 03/2007	
67	Feb 01/2008		26	Dec 03/2007		8	Dec 03/2007	
68	Dec 03/2007		27	Oct 01/2008		9	Dec 03/2007	
69	Dec 03/2007		28	Dec 03/2007		10	Dec 03/2007	
70	Dec 03/2007		29	Dec 03/2007		11	Dec 03/2007	
71	Dec 03/2007		30	Dec 03/2007		12	Dec 03/2007	
72	Dec 03/2007		31	Dec 03/2007		13	Dec 03/2007	

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14	Dec 03/2007		8	Dec 03/2007		3	Dec 03/2007	
15	Dec 03/2007		9	Dec 03/2007		4	Dec 03/2007	
16	Dec 03/2007		10	Dec 03/2007		5	Dec 03/2007	
17	Dec 03/2007		11	Dec 03/2007		6	Dec 03/2007	
18	Dec 03/2007		12	Dec 03/2007		7	Dec 03/2007	
19	Dec 03/2007		13	Dec 03/2007		8	BLANK	
20	Dec 03/2007		14	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 6-1		
21	Dec 03/2007		15	Dec 03/2007		1	Jun 01/2008	
22	Dec 03/2007		16	Dec 03/2007		2	Dec 03/2007	
23	Dec 03/2007		17	Dec 03/2007		3	Oct 01/2008	
24	BLANK		18	Dec 03/2007		4	Dec 03/2007	
71-00-02 P/P BUILDUP FIGURE 4-3			19	Dec 03/2007		5	Oct 01/2008	
1	Jun 01/2008		20	Dec 03/2007		6	Dec 03/2007	
2	Dec 03/2007		21	Dec 03/2007		7	Oct 01/2008	
3	Dec 03/2007		22	Dec 03/2007		8	BLANK	
4	Dec 03/2007		23	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 6-2		
5	Dec 03/2007		24	BLANK		1	Jun 01/2008	
6	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 5-1			2	Dec 03/2007	
7	Dec 03/2007		1	Jun 01/2008		3	Dec 03/2007	
8	Dec 03/2007		2	Dec 03/2007		4	BLANK	
9	Dec 03/2007		3	Oct 01/2008		71-00-02 P/P BUILDUP FIGURE 6-3		
10	Dec 03/2007		4	Dec 03/2007		1	Jun 01/2008	
11	Dec 03/2007		5	Dec 03/2007		2	Dec 03/2007	
12	Dec 03/2007		6	Dec 03/2007		3	Dec 03/2007	
13	Dec 03/2007		7	Dec 03/2007		4	BLANK	
14	Dec 03/2007		8	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 7-1		
15	Dec 03/2007		9	Dec 03/2007		1	Jun 01/2008	
16	Dec 03/2007		10	Dec 03/2007		2	Dec 03/2007	
17	Dec 03/2007		11	Dec 03/2007		3	Oct 01/2008	
18	BLANK		12	BLANK		4	BLANK	
71-00-02 P/P BUILDUP FIGURE 4-4			71-00-02 P/P BUILDUP FIGURE 5-2			71-00-02 P/P BUILDUP FIGURE 7-2		
1	Jun 01/2008		1	Jun 01/2008		1	Jun 01/2008	
2	Dec 03/2007		2	Dec 03/2007		2	Dec 03/2007	
3	Dec 03/2007		3	Dec 03/2007		3	Dec 03/2007	
4	Dec 03/2007		4	BLANK		4	Feb 01/2008	
5	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 5-3			5	Dec 03/2007	
6	Dec 03/2007		1	Jun 01/2008		6	Dec 03/2007	
7	Dec 03/2007		2	Dec 03/2007		7	Dec 03/2007	

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8	Dec 03/2007		1	Jun 01/2008		9	Dec 03/2007	
9	Dec 03/2007		2	Dec 03/2007		10	Dec 03/2007	
10	Dec 03/2007		3	Dec 03/2007		11	Dec 03/2007	
11	Dec 03/2007		4	Dec 03/2007		12	Dec 03/2007	
12	BLANK		R 5	Jun 01/2009		13	Dec 03/2007	
71-00-02 P/P BUILDUP FIGURE 7-3			6	BLANK		14	Dec 03/2007	
1	Jun 01/2008		71-00-02 P/P BUILDUP FIGURE 8-4			15	Dec 03/2007	
2	Dec 03/2007		1	Jun 01/2008		16	Dec 03/2007	
3	Dec 03/2007		2	Dec 03/2007		17	Dec 03/2007	
4	Dec 03/2007		3	Dec 03/2007		18	BLANK	
5	Dec 03/2007		4	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 10-1		
6	Dec 03/2007		5	Dec 03/2007		1	Jun 01/2008	
7	Dec 03/2007		6	BLANK		2	Dec 03/2007	
8	BLANK		71-00-02 P/P BUILDUP FIGURE 8-5			3	Dec 03/2007	
71-00-02 P/P BUILDUP FIGURE 8-1			1	Jun 01/2008		4	BLANK	
1	Jun 01/2008		2	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 10-2		
2	Dec 03/2007		3	Dec 03/2007		1	Jun 01/2008	
3	Oct 01/2008		4	Dec 03/2007		2	Dec 03/2007	
4	Dec 03/2007		5	Dec 03/2007		3	Dec 03/2007	
5	Dec 03/2007		6	BLANK		4	BLANK	
6	Feb 01/2008		71-00-02 P/P BUILDUP FIGURE 9-1			71-00-02 P/P BUILDUP FIGURE 10-3		
7	Dec 03/2007		1	Jun 01/2008		1	Jun 01/2008	
8	Dec 03/2007		2	Dec 03/2007		2	Dec 03/2007	
9	Dec 03/2007		3	Dec 03/2007		3	Dec 03/2007	
10	Dec 03/2007		4	BLANK		4	Dec 03/2007	
11	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 9-2			5	Dec 03/2007	
12	Dec 03/2007		1	Jun 01/2008		6	Dec 03/2007	
13	Dec 03/2007		2	Dec 03/2007		7	Dec 03/2007	
14	BLANK		3	Dec 03/2007		8	Dec 03/2007	
71-00-02 P/P BUILDUP FIGURE 8-2			4	BLANK		9	Dec 03/2007	
1	Jun 01/2008		71-00-02 P/P BUILDUP FIGURE 9-3			10	Dec 03/2007	
2	Dec 03/2007		1	Jun 01/2008		11	Dec 03/2007	
3	Feb 01/2008		2	Dec 03/2007		12	BLANK	
4	Dec 03/2007		3	Dec 03/2007		71-00-02 P/P BUILDUP FIGURE 10-4		
5	Dec 03/2007		4	Dec 03/2007		1	Jun 01/2008	
6	Dec 03/2007		5	Dec 03/2007		2	Dec 03/2007	
7	Oct 01/2008		6	Dec 03/2007		3	Dec 03/2007	
8	BLANK		7	Dec 03/2007		4	Dec 03/2007	
			8	Dec 03/2007				

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5	Dec 03/2007		9	Oct 01/2008		47	Oct 01/2008	
6	Dec 03/2007		10	Oct 01/2008		48	BLANK	
7	Dec 03/2007		11	Oct 01/2008		71-00-02 P/P BUILDUP FIGURE 12-1		
8	Dec 03/2007		12	Oct 01/2008		1	Jun 01/2008	
9	Dec 03/2007		13	Oct 01/2008		2	Dec 03/2007	
10	Dec 03/2007		14	Oct 01/2008		3	Dec 03/2007	
11	Dec 03/2007		15	Oct 01/2008		4	BLANK	
12	Dec 03/2007		16	Oct 01/2008		71-00-02 P/P BUILDUP FIGURE 12-2		
13	Dec 03/2007		17	Oct 01/2008		1	Jun 01/2008	
14	Dec 03/2007		18	Oct 01/2008		2	Dec 03/2007	
15	Dec 03/2007		19	Oct 01/2008		3	Dec 03/2007	
16	Dec 03/2007		20	Oct 01/2008		4	Dec 03/2007	
17	Dec 03/2007		21	Oct 01/2008		5	Dec 03/2007	
18	BLANK		22	Oct 01/2008		6	Dec 03/2007	
71-00-02 P/P BUILDUP FIGURE 11-1			23	Oct 01/2008		7	Oct 01/2008	
1	Jun 01/2008		24	Oct 01/2008		8	Dec 03/2007	
2	Dec 03/2007		25	Oct 01/2008		9	Dec 03/2007	
3	Oct 01/2008		26	Oct 01/2008		10	Dec 03/2007	
4	Dec 03/2007		27	Oct 01/2008		11	Dec 03/2007	
5	Oct 01/2008		28	Oct 01/2008		12	Dec 03/2007	
6	Dec 03/2007		29	Oct 01/2008		13	Dec 03/2007	
7	Dec 03/2007		30	Oct 01/2008		14	Dec 03/2007	
8	Dec 03/2007		31	Oct 01/2008		15	Dec 03/2007	
9	Dec 03/2007		32	Oct 01/2008		16	Dec 03/2007	
10	Dec 03/2007		33	Oct 01/2008		17	Dec 03/2007	
11	Dec 03/2007		34	Oct 01/2008		18	BLANK	
12	Dec 03/2007		35	Oct 01/2008		71-00-02 P/P BUILDUP FIGURE 12-3		
R 13	Jun 01/2009		36	Oct 01/2008		1	Jun 01/2008	
14	BLANK		37	Oct 01/2008		2	Dec 03/2007	
71-00-02 P/P BUILDUP FIGURE 11-2			38	Oct 01/2008		3	Dec 03/2007	
1	Oct 01/2008		39	Oct 01/2008		4	Dec 03/2007	
2	Oct 01/2008		40	Oct 01/2008		5	Dec 03/2007	
3	Oct 01/2008		41	Oct 01/2008		6	Dec 03/2007	
4	Oct 01/2008		42	Oct 01/2008		7	Oct 01/2008	
5	Oct 01/2008		43	Oct 01/2008		8	Dec 03/2007	
6	Oct 01/2008		44	Oct 01/2008		9	Oct 01/2008	
7	Oct 01/2008		45	Oct 01/2008		10	Dec 03/2007	
8	Oct 01/2008		46	Oct 01/2008		11	Dec 03/2007	

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13	Dec 03/2007		6	Dec 03/2007				
14	Dec 03/2007		7	Dec 03/2007				
15	Dec 03/2007		8	Dec 03/2007				
16	Dec 03/2007		9	Dec 03/2007				
17	Feb 01/2008		10	Dec 03/2007				
18	Dec 03/2007		11	Dec 03/2007				
19	Dec 03/2007		12	Dec 03/2007				
20	Dec 03/2007		13	Dec 03/2007				
21	Dec 03/2007		14	BLANK				
22	BLANK		71-00-03 FIGURE 1					
71-00-02 P/P BUILDUP FIGURE 12-4			O 1	Jun 01/2009				
1	Jun 01/2008		O 2	Jun 01/2009				
2	Dec 03/2007							
3	Dec 03/2007							
4	BLANK							
71-00-02 P/P BUILDUP FIGURE 12-5								
1	Jun 01/2008							
2	Dec 03/2007							
3	Dec 03/2007							
4	Dec 03/2007							
5	Dec 03/2007							
6	BLANK							
71-00-02 P/P BUILDUP FIGURE 13-1								
1	Jun 01/2008							
2	Feb 01/2008							
3	Oct 01/2008							
4	BLANK							
71-00-02 P/P BUILDUP FIGURE 13-2								
1	Jun 01/2008							
2	Dec 03/2007							
3	Dec 03/2007							
4	BLANK							
71-00-02 P/P BUILDUP FIGURE 14-1								
1	Jun 01/2008							
2	Dec 03/2007							
3	Dec 03/2007							
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## CHAPTER 71

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**FIGURE 1-1**

**HYDRAULIC PUMP PREASSEMBLY**

**REF QEC TASK NO.: 9**

**REF DWG: 332T4120**

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

FOR INSTALLATION SEE 71-00-02, HYDRAULIC PUMP INSTALLATION/Figure 9-1

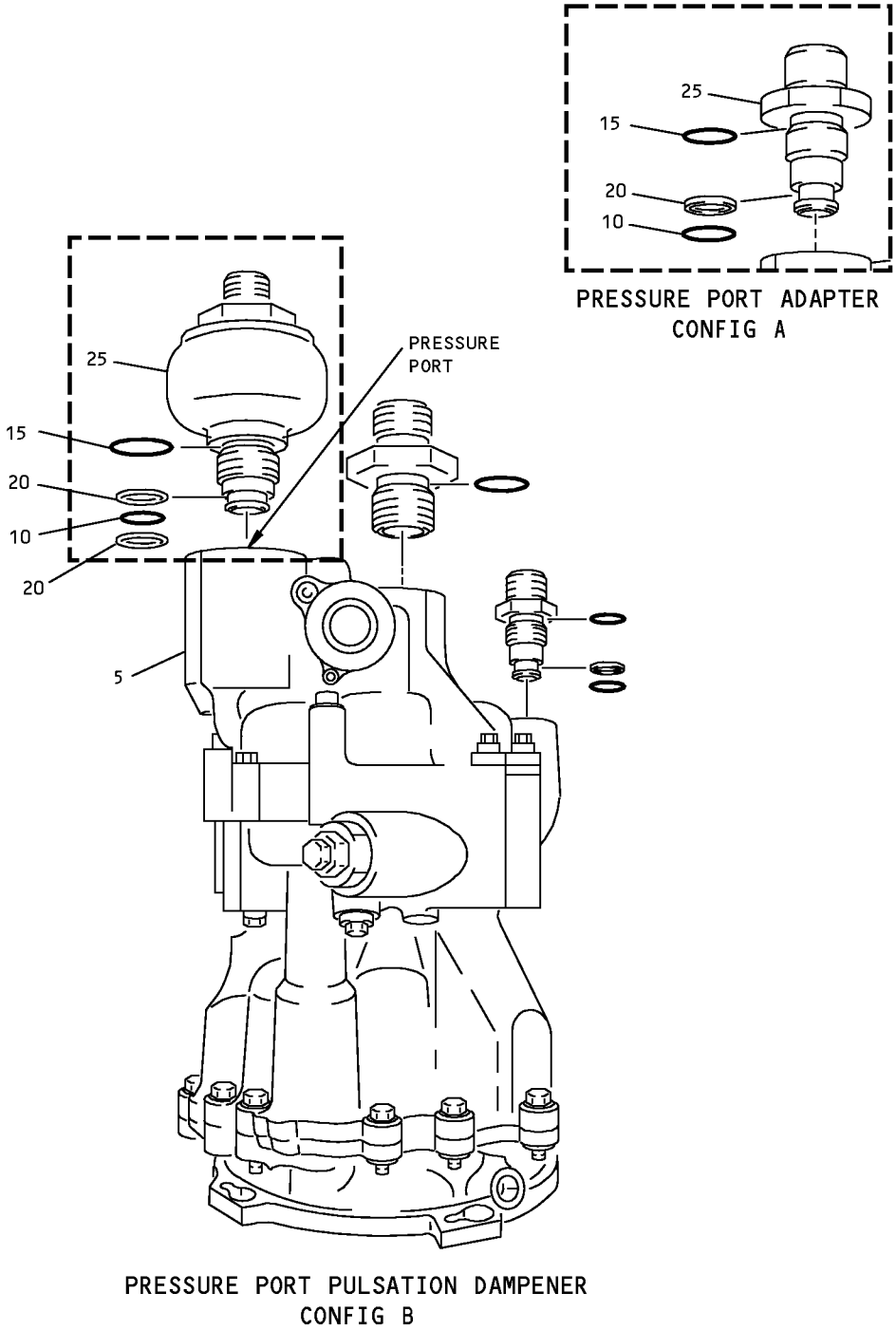
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P/P BUILDUP FIGURE 1-1

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**Hydraulic Pump Preassembly  
Figure 1-1 (Sheet 1)**

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ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
1-1		<b>HYDRAULIC PUMP PREASSEMBLY (FIGURE 1-1, SHEET 1)</b>  <b>NOTE:</b> LUBRICATE ALL PACKINGS WITH BMS 3-11 HYDRAULIC FLUID PRIOR TO INSTALLATION.  LUBRICATE WITH fluid, D00153 (C1) AND INSTALL PACKINGS (10, 15) AND BACKUP RING (20) ON ADAPTER/PULSATION DAMPENER (25). INSTALL ADAPTER/PULSATION DAMPENER (25) IN PRESSURE OUTLET PORT ON HYDRAULIC PUMP (5). TIGHTEN ADAPTER/PULSATION DAMPENER (25) TO 713-787 LB-IN.		
5	3031863-001	. PUMP, HYD (V62983) (BOEING 60B00200-12)	VEN	-
5	887673	. PUMP, HYD (V62983) (REPLACED BY 3031863-001)	LTD	-
5	60B00200-12	. PUMP, HYD		1
5	350880-6	. PUMP, HYD (V62983) (BOEING 60B00200-5)	VEN	-
5	60B00200-5	. PUMP, HYD (REPLACED BY 60B00200-12)	LTD	-
10	NAS1611-212A	. O-RING		1
15	NAS1612-16A	. O-RING		1
20	BACR12BM212	. BACKUP RING <sup>[B]</sup>		2
20	BACR12BM212	. BACKUP RING (QTY 1) <sup>[A]</sup>	LTD	-
25	485000-14	. PULSATION DAMPENER (V83533) <sup>[B]</sup>	VEN	1
25	BACA14AZ16A	. ADAPTER (QTY 1) <sup>[A]</sup>	LTD	-
C1	D00153	. FLUID	CON	AR

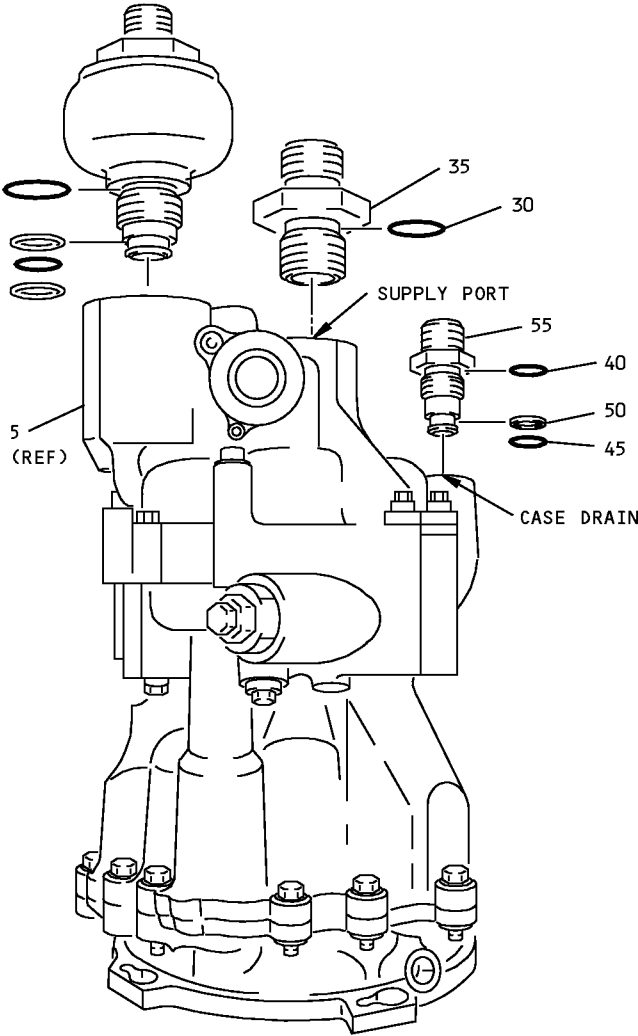
**71-00-01**

P/P BUILDUP FIGURE 1-1

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POWERPLANT BUILDUP MANUAL**



**Hydraulic Pump Preassembly  
Figure 1-1 (Sheet 2)**

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
1-1		<p><b>HYDRAULIC PUMP PREASSEMBLY</b>  <b>(FIGURE 1-1, SHEET 2)</b></p> <p>LUBRICATE WITH fluid, D00153 (C1) AND INSTALL PACKING (30) ON UNION (35). INSTALL UNION (35) IN SUPPLY PORT ON HYDRAULIC PUMP (5). TIGHTEN UNION (35) TO 855-945 LB-IN.</p> <p>. O-RING</p> <p>. UNION</p> <p>. FLUID</p> <p>LUBRICATE WITH fluid, D00153 (C1) AND INSTALL PACKINGS (40, 45) AND BACKUP RING (50) ON ADAPTER (55). INSTALL ADAPTER (55) IN CASE DRAIN PORT ON HYDRAULIC PUMP (5). TIGHTEN ADAPTER (55) TO 266-294 LB-IN.</p> <p>. O-RING</p> <p>. O-RING</p> <p>. BACKUP RING</p> <p>. ADAPTER</p> <p>. FLUID</p>	CON	<p>1</p> <p>1</p> <p>AR</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>AR</p>
30	NAS1612-20A			1
35	MS21902-20			1
C1	D00153		CON	AR
40	NAS1612-8A			1
45	NAS1611-111A			1
50	BACR12BM111			1
55	BACA14AZ8A			1
C1	D00153		CON	AR

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P/P BUILDUP FIGURE 1-1

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**FIGURE 2-1**

**INLET PREASSEMBLY**

**REF QEC TASK NO.: 13**

**REF DWG: 334T4000**

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

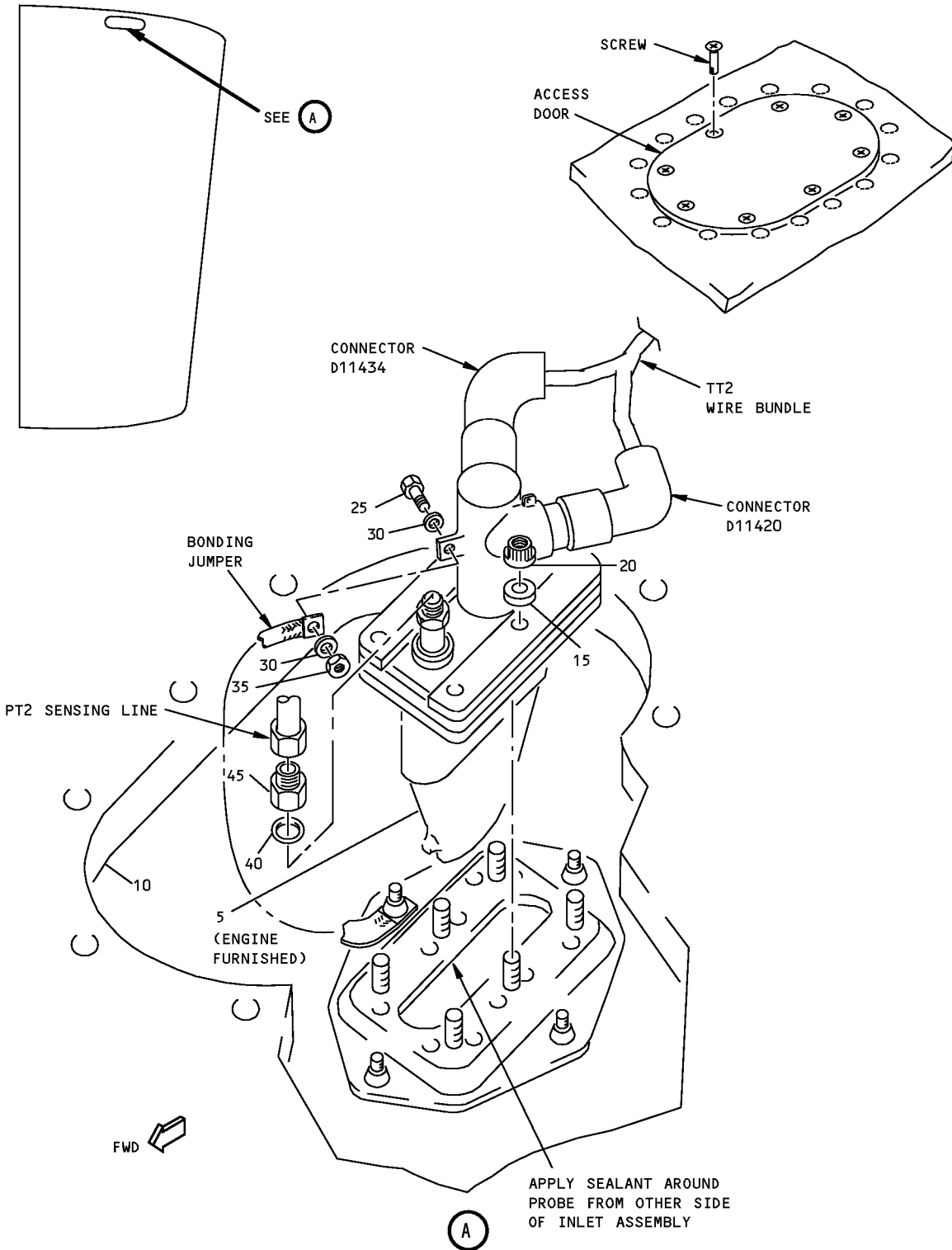
FOR INSTALLATION SEE 71-00-02, INLET COWL INSTALLATION/Figure 13-2

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**Inlet Preassembly  
Figure 2-1 (Sheet 1)**

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P/P BUILDUP FIGURE 2-1

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ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
2-1		<b>INLET PREASSEMBLY (FIGURE 2-1, SHEET 1)</b>		
		INSTALL PROBE (5) IN INLET ASSY (10) AND SECURE WITH ITEMS (15, 20).		
5		. PROBE, PT2,TT2 (SUPPLIED WITH ENG)		1
10	314T4010-12B	. INLET ASSY		1
10	314T4010-10B	. INLET ASSY (REPLACED BY 314T4010-12B)	LTD	-
10	314T4010-6B	. INLET ASSY (REPLACED BY 314T4010-10B)	LTD	-
15	NAS1149C0463R	. WASHER		6
20	BACN11Z4CD	. NUT		6
		SECURE BONDING JUMPER TO PROBE (5) WITH ITEMS (25 THRU 35).		
25	BACS12HN3-9	. SCREW		1
30	NAS1149D0363J	. WASHER		2
35	BACN11Z3CD	. NUT		1
		SECURE TT2 WIRE BUNDLE TO TT2. INSTALL PT2 SENSING LINE TO PT2 WITH ITEMS (40, 45).		
40	MS28778-4	. PACKING		1
45	MS21916W6-4	. REDUCER		1
45	MS21916J6-4	. REDUCER	OPT	-
45	BACR17E6-4	. REDUCER	OPT	-
		INJECT sealant, A00247 (C1) TO A MINIMUM DEPTH OF 0.25 INCH IN GAP AROUND PROBE ON ID SURFACE OF INLET ASSY (10). ALIGN ACCESS DOOR ON INLET ASSY (10). LUBRICATE SCREWS WITH grease, D00015 (C2) AND INSTALL.		
C1	A00247	. SEALANT	CON	AR
C2	D00015	. GREASE	CON	AR

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P/P BUILDUP FIGURE 2-1

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FIGURE 1-1

**PW4000 SERIES POWERPLANT WITH QEC  
INSTALLED**

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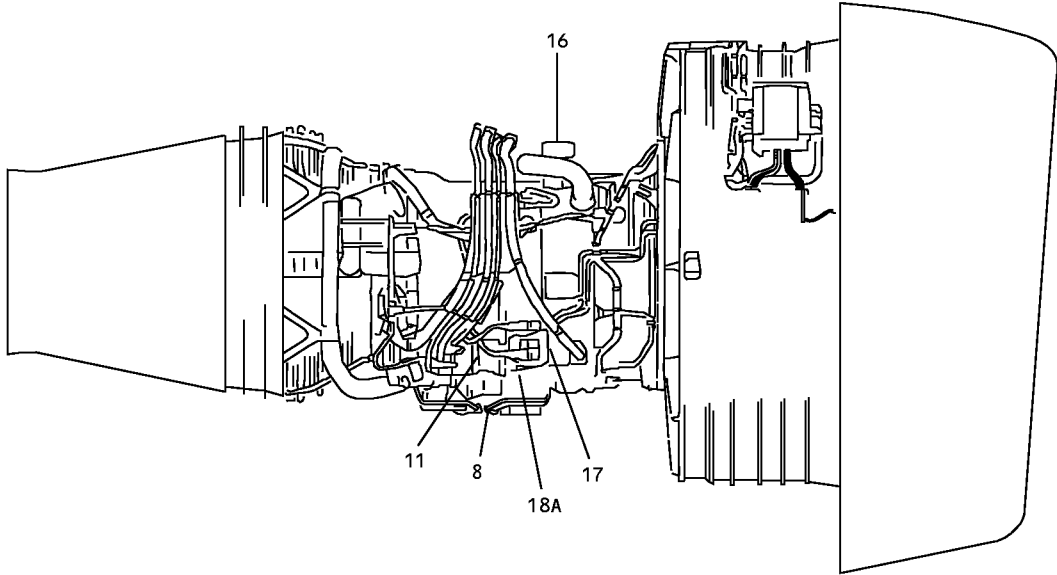
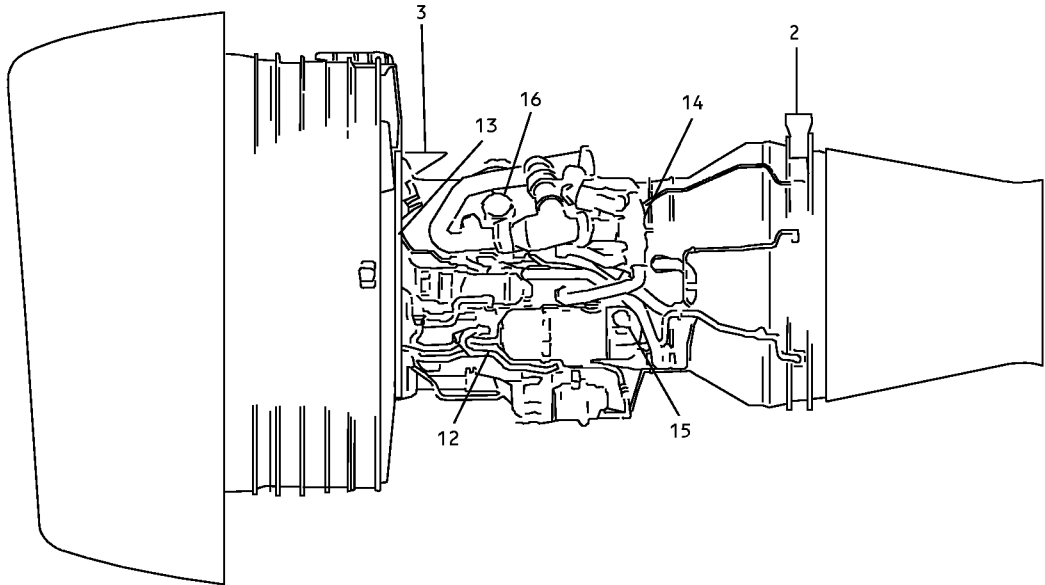
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POWERPLANT BUILDUP MANUAL**



**PW4000 Series Powerplant with QEC Installed  
Figure 1-1 (Sheet 1)**

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**POWERPLANT BUILDUP MANUAL**

<b>ITEM NO.</b>	<b>FIGURE TITLE</b>	<b>FIGURE</b>
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15	OIL QUANTITY TRANSMITTER INSTALLATION	6-2
16	SURGE BLEED EXHAUST DUCT INSTALLATION	6-3
17	FUEL FLOW TRANSMITTER INSTALLATION	7-1
18	FIRE/OVERHEAT DETECTOR INSTALLATION	7-2
18A	FUEL PRESSURE TRANSMITTER INSTALLATION	7-3

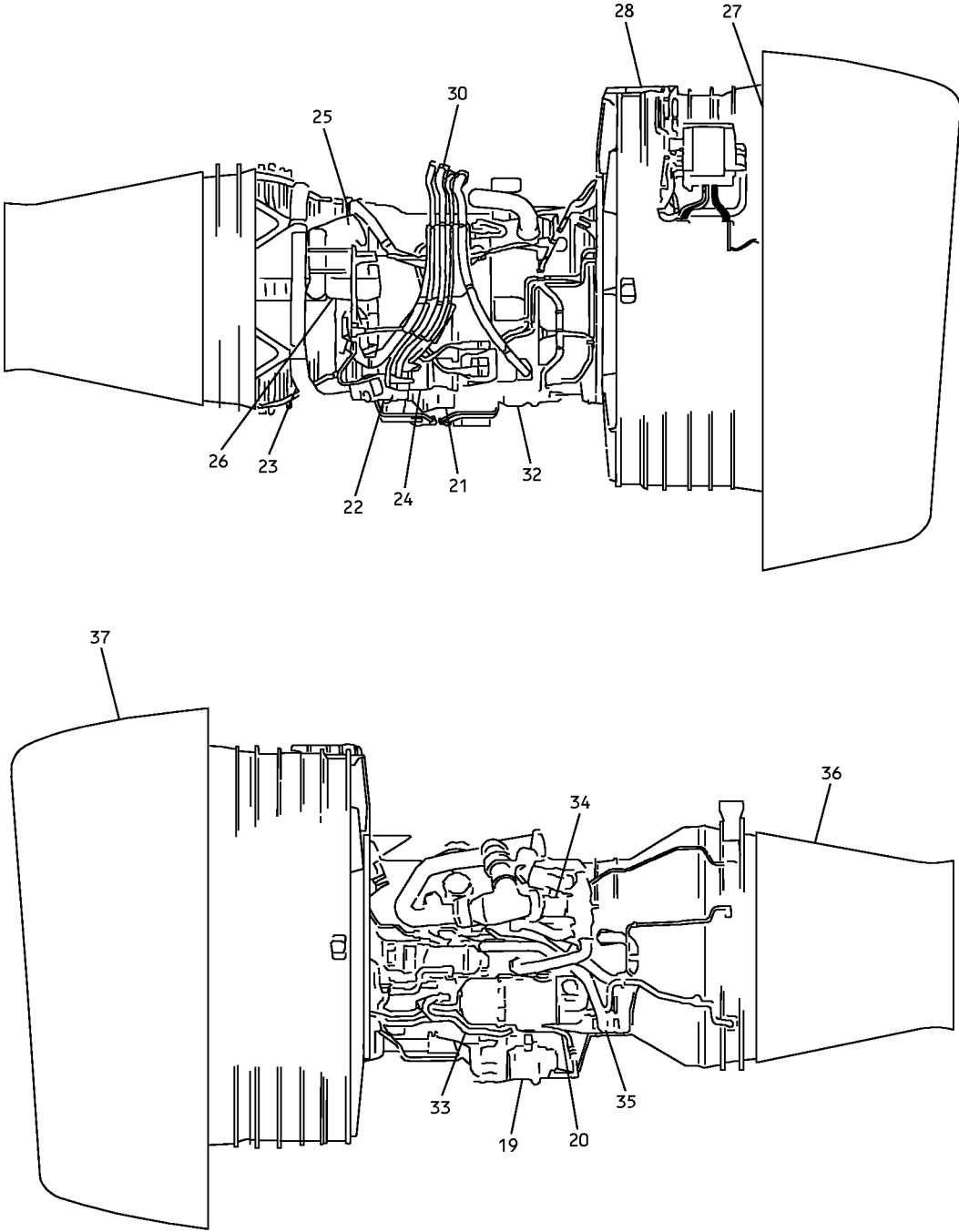
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PW4000 Series Powerplant with QEC Installed  
Figure 1-1 (Sheet 2)

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	FIGURE TITLE	FIGURE
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20	IDGS OIL SYSTEM PLUMBING INSTALLATION	8-2
21	STARTER INSTALLATION	8-3
22	STARTER VALVE INSTALLATION	8-4
23	STARTER DUCT INSTALLATION	8-5
24	HYDRAULIC PUMP INSTALLATION	9-1
25	INTERFACE DUCT INSTALLATION - COOLING AIR INLET	9-2
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28	V-BAND ANCHOR INSTALLATION	10-2
29	WIRE HARNESS INSTALLATION - FAN CASE (WITHOUT SCU)	10-3
29	WIRE HARNESS INSTALLATION - FAN CASE (WITH SCU)	10-4
30	HYDRAULIC PLUMBING AND FUEL HOSE INSTALLATION	11-1
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32	CONTROL INSTALLATION	12-1
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35	GEARBOX BREATHER SEAL INSTALLATION	12-4
35A	FIRE EXTINGUISHER INSTALLATION	12-5
36	PRIMARY EXHAUST INSTALLATION	13-1
37	INLET COWL INSTALLATION	13-2
38	MARKER INSTALLATION	14-1

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FIGURE 2-1

# AFT ENGINE MOUNT INSTALLATION

REF QEC TASK NO.: 2

REF DWG: 310T4020

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

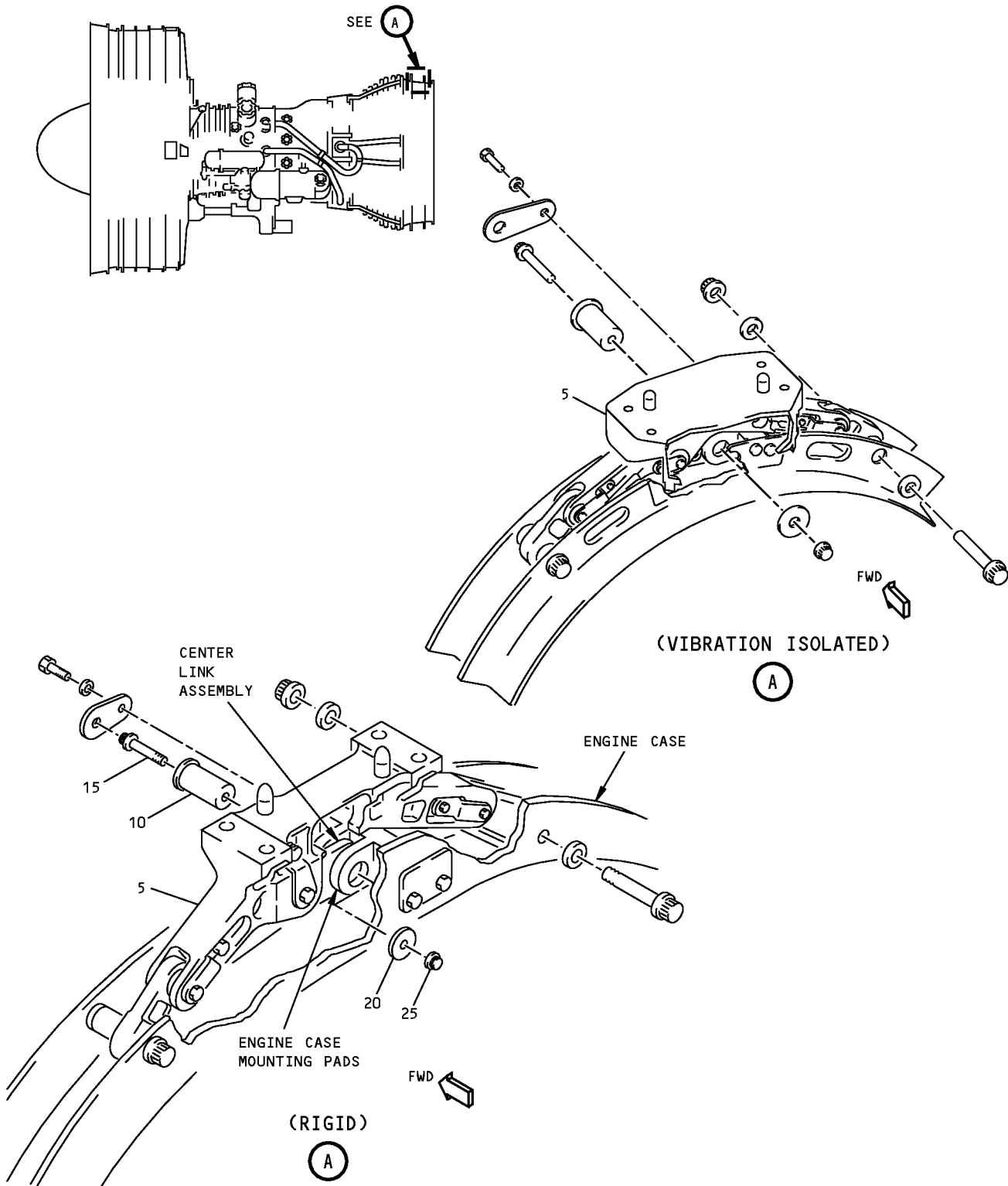
**71-00-02**

P/P BUILDUP FIGURE 2-1

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**POWERPLANT BUILDUP MANUAL**



**Aft Engine Mount Installation  
Figure 2-1 (Sheet 1)**

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P/P BUILDUP FIGURE 2-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
2-1		<p><b>AFT ENGINE MOUNT INSTALLATION</b> (FIGURE 2-1, SHEET 1)</p> <p><b>CAUTION:</b> USE CARE TO PREVENT DAMAGE TO EXTERNAL COATING ON ENGINE MOUNT. IF DAMAGE OCCURS REFER TO 747/767 COMPONENT MAINTENANCE MANUAL, 71-21-16, PW4000 ENGINE MOUNT ASSY, FOR APPROVED REPAIR.</p> <p>APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO THE EXTERIOR SURFACES AND THE BORES OF MOUNT ASSY (5) BEARINGS (6 PLACES), FAY SURFACE OF PIN (10) AND THREADS OF BOLT (15).</p> <p>POSITION MOUNT ASSY (5) ON ENGINE AND ALIGN MOUNTING HOLES. ALIGN BEARING IN CENTER LINK ASSY BETWEEN MTG PADS ON ENGINE CASE. INSTALL LINK PIVOT PIN (10) INTO ENGINE CASE AND CENTER LINK ASSY. SECURE WITH ITEMS (15 THRU 25). TIGHTEN NUT (25) TO 220-410 LB-IN.</p>		
5	310T4020-24	. MOUNT ASSY (RIGID)		1
5	310T4020-16	. MOUNT ASSY (REPLACED BY 310T4020-24) (RIGID)	LTD	-
5	310T4020-14	. MOUNT ASSY (REPLACED BY 310T4020-16) (ISOLATED)	LTD	-
5	310T4020-11	. MOUNT ASSY (REPLACED BY 310T4020-14) (ISOLATED)	LTD	-
5	310T4020-13	. MOUNT ASSY (REPLACED BY 310T4020-14) (ISOLATED)	LTD	-
5	310T4020-9	. MOUNT ASSY (REPLACED BY 310T4020-14) (ISOLATED)	LTD	-
5	310T4020-7	. MOUNT ASSY (REPLACED BY 310T4020-11) (ISOLATED)	LTD	-
5	310T4020-3	. MOUNT ASSY (REPLACED BY 310T4020-7) (RIGID)	LTD	-
10	310T3150-2	. PIN, LINK PIVOT		1
15	BACB30LE6U49	. BOLT		1
20	310T3151-1	. WASHER, SPECIAL (RIGID)		1
20	310T3151-21	. WASHER, SPECIAL (ISOLATED)	LTD	-
25	BACN11Z6C	. NUT		1
25	BACN11Z6CK	. NUT (OPTIONAL TO BACN11Z6C)	OPT	-
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND	CON	AR

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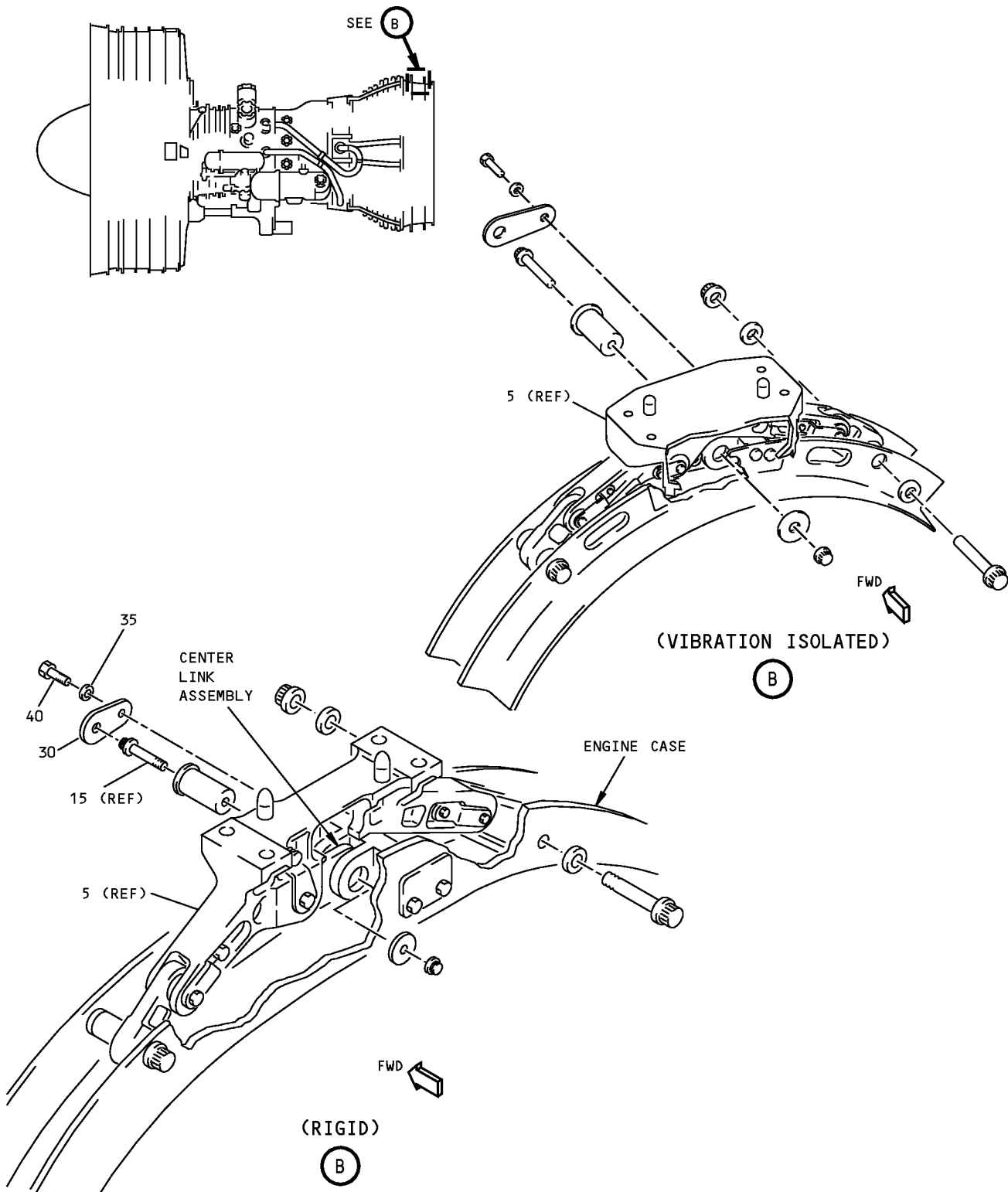
P/P BUILDUP FIGURE 2-1

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**POWERPLANT BUILDUP MANUAL**



**Aft Engine Mount Installation  
Figure 2-1 (Sheet 2)**

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P/P BUILDUP FIGURE 2-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
2-1		<b>AFT ENGINE MOUNT INSTALLATION (FIGURE 2-1, SHEET 2)</b>  INSTALL BOLT RETAINER ASSY (30) OVER BOLT (15) AND SECURE RETAINER ASSY (30) TO ENGINE CASE WITH ITEMS (35, 40).		
30	310T3039-10	. RETAINER ASSY, BOLT		1
30	310T3039-3	. RETAINER ASSY, BOLT (REPLACED BY 310T3039-10)	LTD	-
35	BACW10BP4ACU	. WASHER		1
40	BACB30LJ4U7	. BOLT		1

**71-00-02**

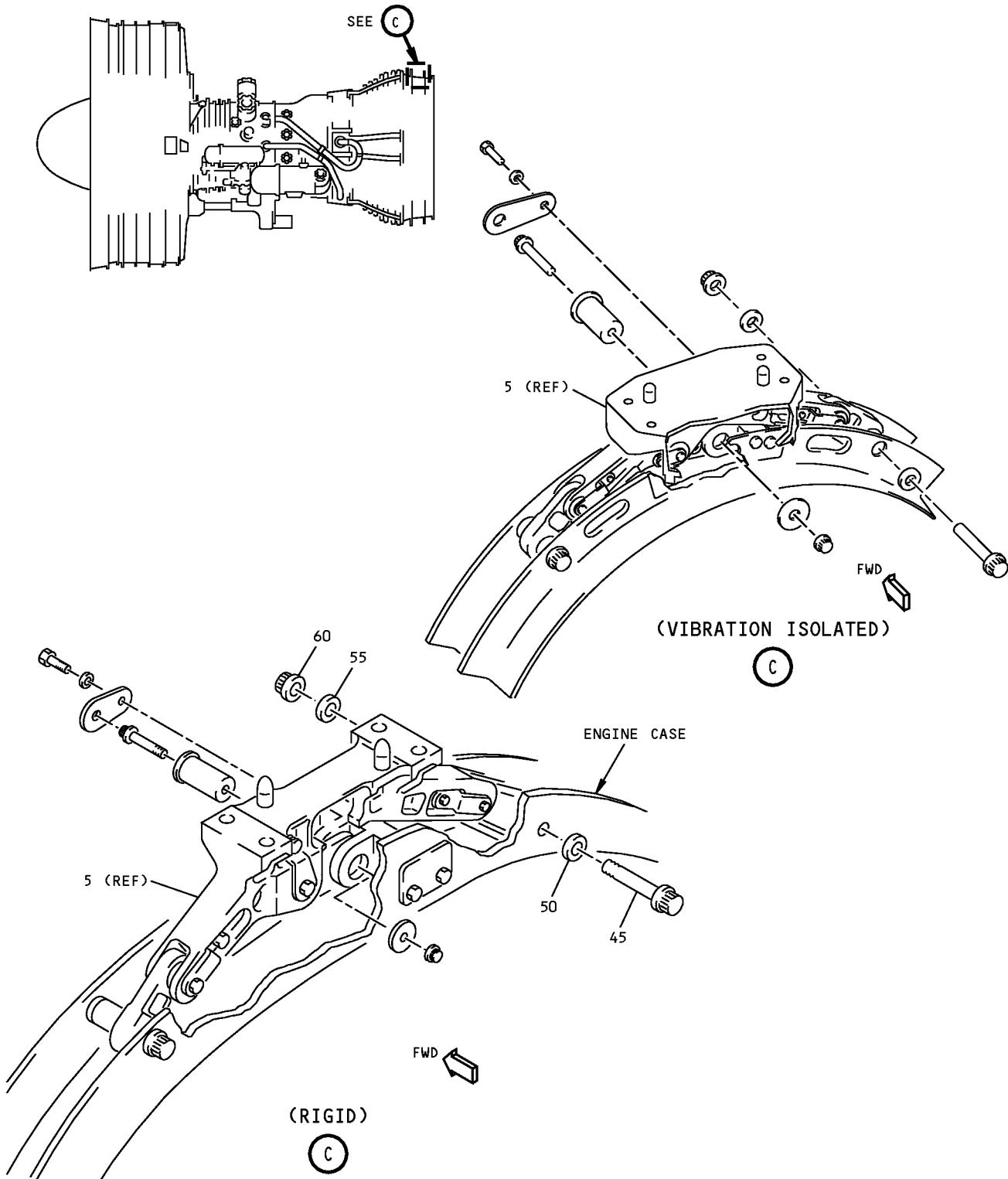
P/P BUILDUP FIGURE 2-1

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**Aft Engine Mount Installation  
Figure 2-1 (Sheet 3)**

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P/P BUILDUP FIGURE 2-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
2-1		<b>AFT ENGINE MOUNT INSTALLATION (FIGURE 2-1, SHEET 3)</b>  APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO SHANKS AND THREADS OF BOLTS (45). INSTALL WASHERS (50) ON BOLTS (45) AND INSTALL BOLTS FROM AFT SIDE OF ENGINE CASE THROUGH ENGINE CASE AND MOUNT ASSY (5). SECURE WITH ITEMS (55, 60). TIGHTEN NUTS (60) TO 7500-9700 LB-IN OR 625-808 LB-FT.		
45	BACB30PN20-93	. BOLT		2
50	311A1099-20	. WASHER		2
50	BACW10BP20ACU	. WASHER (REPLACED BY 311A1099-20)	LTD	-
55	BACW10BP20APU	. WASHER		2
60	BACN11Z20C	. NUT		2
60	BACN11Z20CK	. NUT (OPTIONAL TO BACN11Z20C)	OPT	-
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND	CON	AR
		PLACE ITEMS (-65 THRU -75) IN A BAG AND SECURE TO MOUNT (5).		
		<b>NOTE:</b> ITEMS (-65 THRU -75, NOT ILLUSTRATED) ARE INSTALLED WHEN THE POWERPLANT IS ATTACHED TO THE STRUT (AMM 71-00-02/401).		
-65	BACW10BP14ACU	. WASHER		4
-70	BACB30PN14-30M	. BOLT <sup>[D]</sup>		4
-70	BACB30PN14-30	. BOLT (REPLACED BY BACB30PN14-30M) <sup>[D]</sup>	LTD	-
-70	BACB30PN14-25	. BOLT <sup>[C]</sup>		4
-75	SL4122CA14-36	. BARREL NUT, TANDEM (V97393)	VEN	2
-75	VB13025-14	. BARREL NUT (V22599) (OPTIONAL TO SL4122CA14-36)	OPT	-
		*[C] USED WITH ISOLATED MOUNT ASSY		
		*[D] USED WITH RIGID MOUNT ASSY		

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P/P BUILDUP FIGURE 2-1

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FIGURE 2-2

# FORWARD ENGINE MOUNT INSTALLATION

REF QEC TASK NO.: 2

REF DWG: 310T4020

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

**71-00-02**

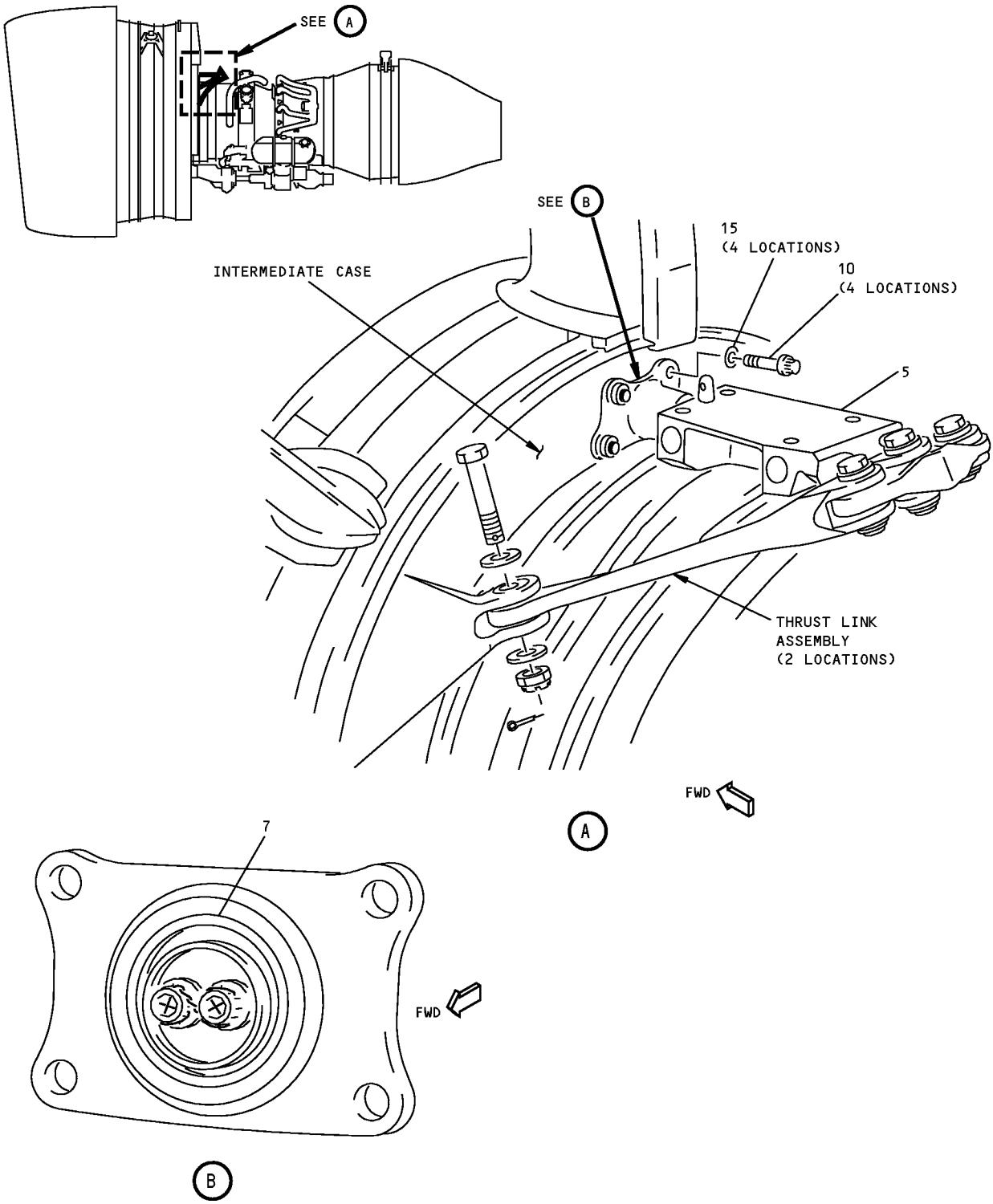
P/P BUILDUP FIGURE 2-2

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**POWERPLANT BUILDUP MANUAL**



**Forward Engine Mount Installation**  
**Figure 2-2 (Sheet 1)**

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P/P BUILDUP FIGURE 2-2

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ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
2-2		<p><b>FORWARD ENGINE MOUNT INSTALLATION</b> (FIGURE 2-2, SHEET 1)</p> <p><b>CAUTION:</b> USE CARE TO PREVENT DAMAGE TO EXTERNAL COATING ON ENGINE MOUNT. IF DAMAGE OCCURS, REFER TO 747/767 COMPONENT MAINTENANCE MANUAL, 71-21-16, PW4000 ENGINE MOUNT ASSY, FOR APPROVED REPAIR.</p> <p><b>CAUTION:</b> MAKE SURE THAT SPACER (7) IS IN PLACE BEFORE YOU POSITION ENGINE MOUNT ASSY (5) ON THE ENGINE. IF SPACER (7) IS MISSING, DAMAGE TO THE ENGINE MOUNT ASSY (5) CAN OCCUR.</p> <p>POSITION MOUNT (5) ON ENGINE. ALIGN SHEAR PIN FITTING WITH ENG CASE AND SECURE WITH ITEMS (10, 15). TIGHTEN BOLTS 1710-2090 LB-IN. AND LOCKWIRE.</p>		
5	310T4020-27	. ENGINE MOUNT ASSY		1
5	310T4020-17	. ENGINE MOUNT ASSY (REPLACED BY 310T4020-27)	LTD	-
5	310T4020-10	. ENGINE MOUNT ASSY (REPLACED BY 310T4020-17)	LTD	-
5	310T4020-8	. ENGINE MOUNT ASSY (REPLACED BY 310T4020-10)	LTD	-
7	310T4036-1	. . SPACER (1 SUPPLIED WITH ENGINE MOUNT)	REF	-
10	BACB30LE10HU17	. BOLT		4
15	BACW10BP10ACU	. WASHER		4

71-00-02

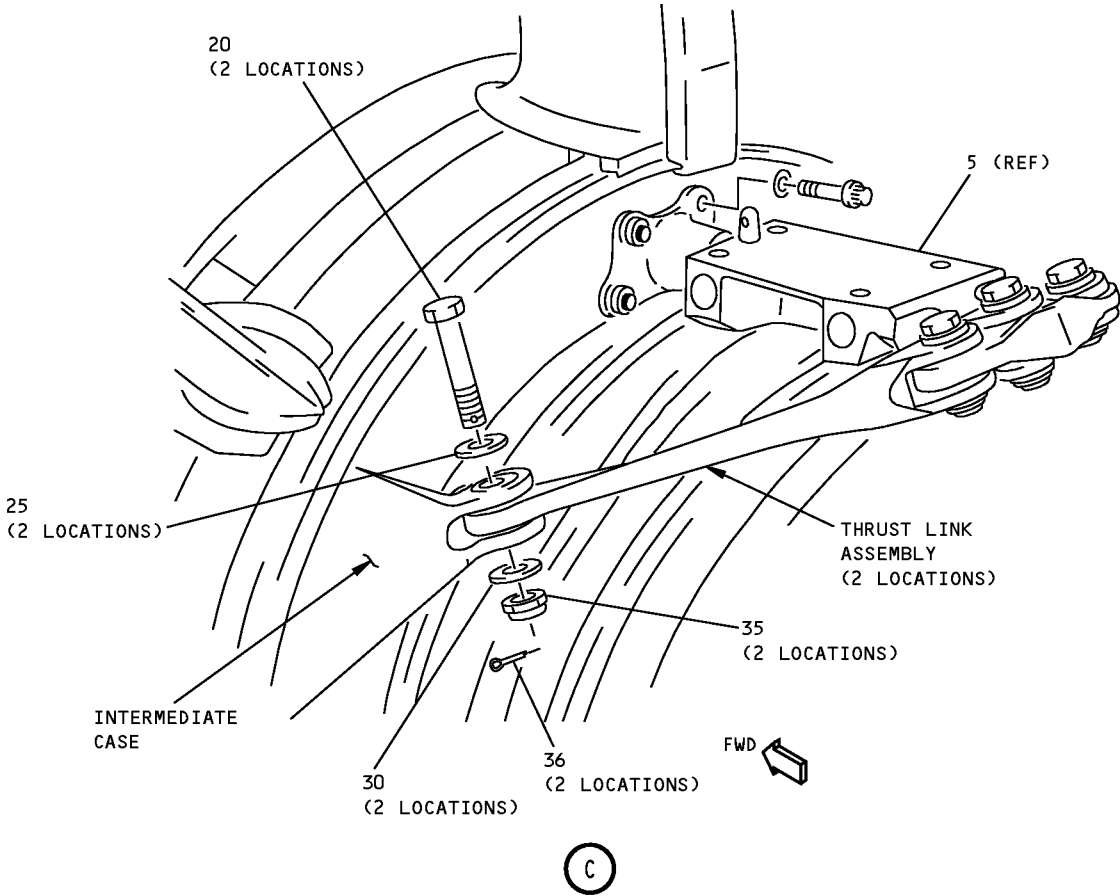
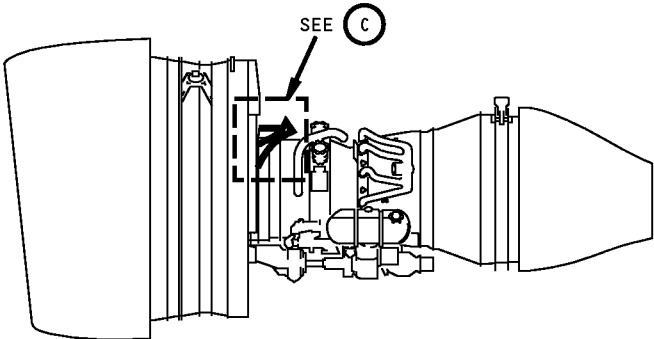
P/P BUILDUP FIGURE 2-2

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**POWERPLANT BUILDUP MANUAL**



**Forward Engine Mount Installation**  
**Figure 2-2 (Sheet 2)**

**71-00-02**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
2-2		<p><b>FORWARD ENGINE MOUNT INSTALLATION</b> (FIGURE 2-2, SHEET 2)</p> <p><b>WARNING:</b> RUN-ON TORQUE RANGE OF NUTS MUST BE MET. IN-FLIGHT FAILURE COULD OCCUR.</p> <p>APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO FAY SURFACE AND THREADS OF BOLTS (20).</p> <p>ALIGN THRUST LINK ASSYS BETWEEN MOUNTING HOLES IN ENGINE CASE. INSTALL ITEMS (20 THRU 35).</p> <p>CHECK THAT RUN-ON TORQUE OF NUTS (35) IS WITHIN 50-400 LB-IN. NUTS THAT DO NOT MEET THIS REQUIREMENT MUST BE REPLACED. IF NUTS (35) ARE REPLACED AND BOLTS (20) STILL DO NOT MEET THIS REQUIREMENT, THEN REPLACE BOLTS (20). INSTALL BOLTS (20) AND NUTS (35) AS MATCHED SETS.</p> <p>TIGHTEN NUTS (35) TO 650-750 LB-IN.</p>		
20	310T3152-16	. BOLT, SHOULDER		2
20	310T3152-6	. BOLT, SHOULDER (OPT)	OPT	-
25	BACW10BP16APU	. WASHER		2
25	311A1099-16	. WASHER	OPT	-
25	BACW10BP16ACU	. WASHER	OPT	-
30	310T3151-4	. WASHER, SPECIAL		2
35	BACN10JC12CM	. NUT		2
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND	CON	AR
		INSTALL COTTER PIN (36).		
36	BACP18BC05A14P	. COTTER PIN		2
36	MS24665-443	. COTTER PIN (REPLACED BY BACP18BC05A14P)	LTD	-

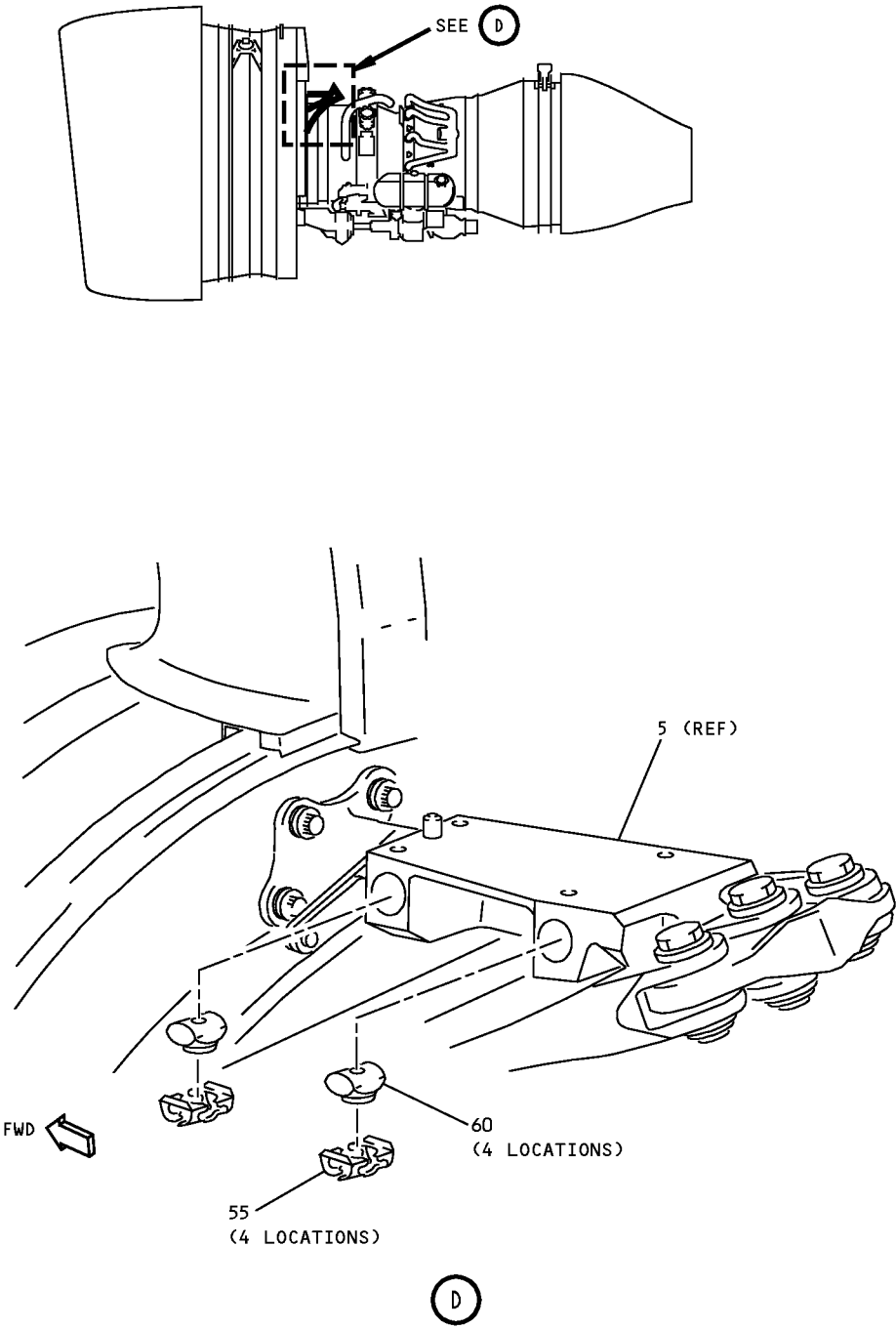
71-00-02

P/P BUILDUP FIGURE 2-2

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POWERPLANT BUILDUP MANUAL**



**Forward Engine Mount Installation  
Figure 2-2 (Sheet 3)**

**71-00-02**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
2-2		<b>FORWARD ENGINE MOUNT INSTALLATION (FIGURE 2-2, SHEET 3)</b> INSTALL NUT RETAINERS (55) AND BARREL NUTS (60) TO MOUNT (5). PLACE ITEMS (-40 THRU -50, NOT ILLUSTRATED) IN A BAG AND SECURE TO MOUNT (5).		
-40	BACB30US14-24M	. BOLT		2
-40	BACB30US14K24M	. BOLT	OPT	-
-40	BACB30US14-24	. BOLT (REPLACED BY BACB30US14-24M)	LTD	-
-45	BACB30US14-59M	. BOLT		2
-45	BACB30US14K59M	. BOLT	OPT	-
-45	BACB30US14-59	. BOLT (REPLACED BY BACB30US14-59M)	LTD	-
-50	BACW10BP14ACU	. WASHER		4
55	SLR414C14	. NUT RETAINER (V97393)	VEN	4
55	SLR4063	. NUT RETAINER (V97393)	OPT	-
60	SL4081C14	. BARREL NUT (V97393)	VEN	4
60	SL4077B	. BARREL NUT (V97393)	OPT	-
60	SL4107C14-5	. BARREL NUT (V97393)	OPT	-

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P/P BUILDUP FIGURE 2-2

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FIGURE 3-1

**BRACKET INSTALLATION - LEFT SIDE FAN  
CASE**

REF QEC TASK NO.: 3

REF DWG: 332T4920  
332T4900

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

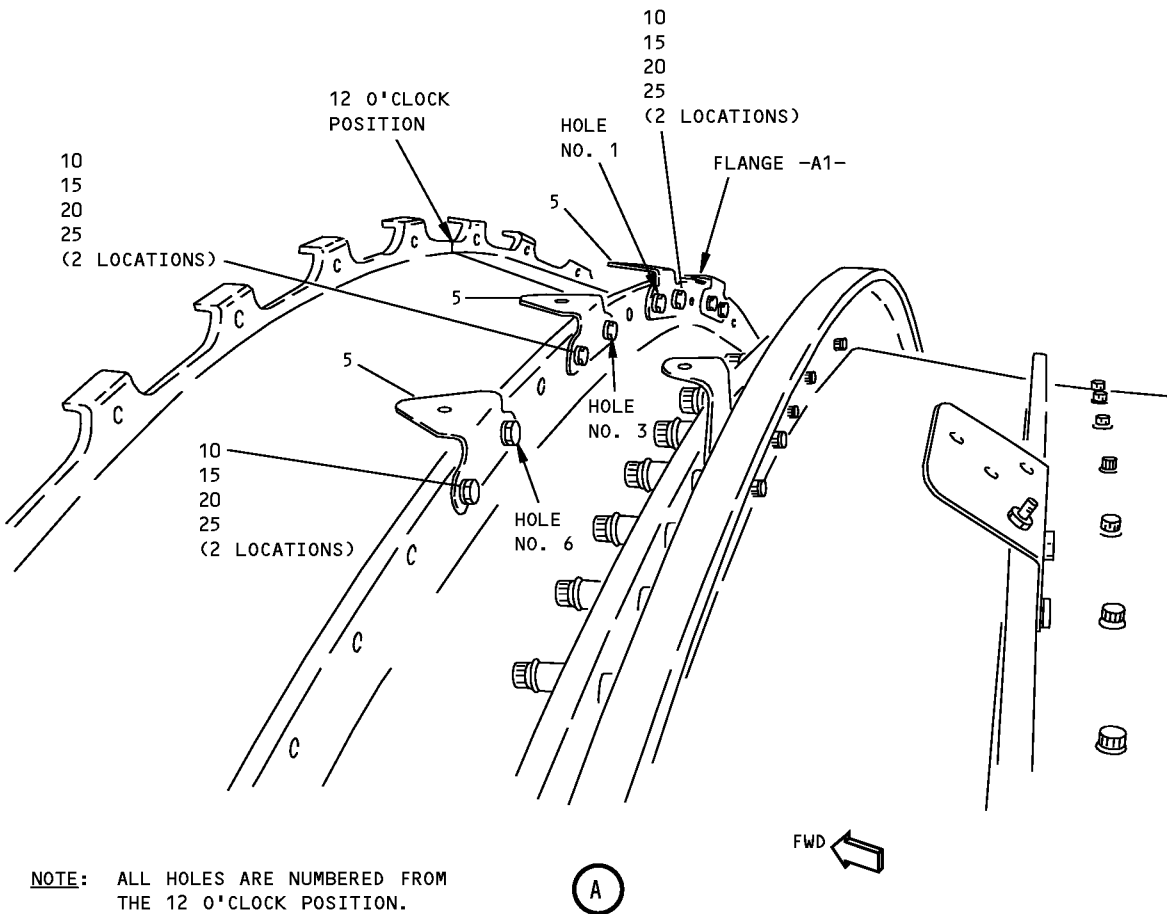
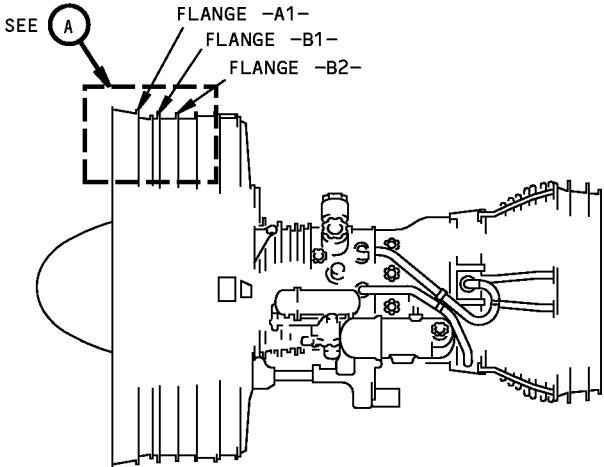
**71-00-02**

P/P BUILDUP FIGURE 3-1

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**POWERPLANT BUILDUP MANUAL**



**NOTE:** ALL HOLES ARE NUMBERED FROM THE 12 O'CLOCK POSITION.

**Bracket Installation - Left Side Fan Case  
Figure 3-1 (Sheet 1)**

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P/P BUILDUP FIGURE 3-1

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-1		<b>BRACKET INSTALLATION - LEFT SIDE FAN CASE</b> <b>(FIGURE 3-1, SHEET 1)</b>  ATTACH BRACKETS (5) TO ENGINE FLANGE A1 AT 11:00 THRU 12:00 POSITION USING FASTENERS (10 THRU 25).				
5	332T4922-43	. BRACKET	AFT	FWD		3
10	BACB30LM4U4	. BOLT				6
15	BACW10BP4ACU	. WASHER (CSK TOWARDS BOLT HEAD)				6
20	NAS1149C0463R	. WASHER				6
25	BACN11Z4C	. NUT				6
25	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)			OPT	-

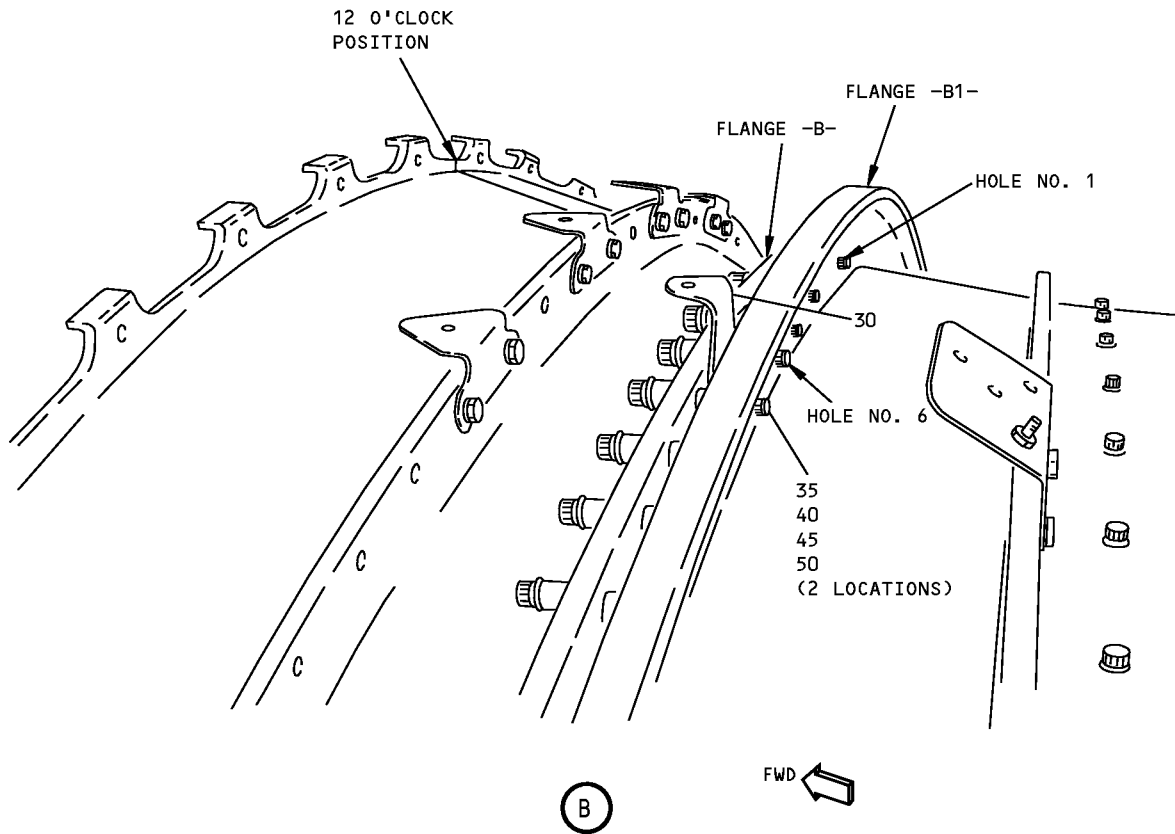
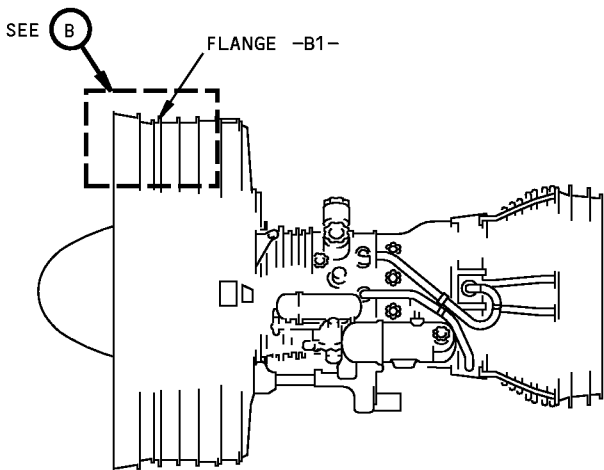
**71-00-02**

P/P BUILDUP FIGURE 3-1

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**POWERPLANT BUILDUP MANUAL**



**NOTE:** ALL HOLES ARE NUMBERED FROM THE 12 O'CLOCK POSITION.

**Bracket Installation - Left Side Fan Case**  
**Figure 3-1 (Sheet 2)**

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P/P BUILDUP FIGURE 3-1  
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POWERPLANT BUILDUP MANUAL

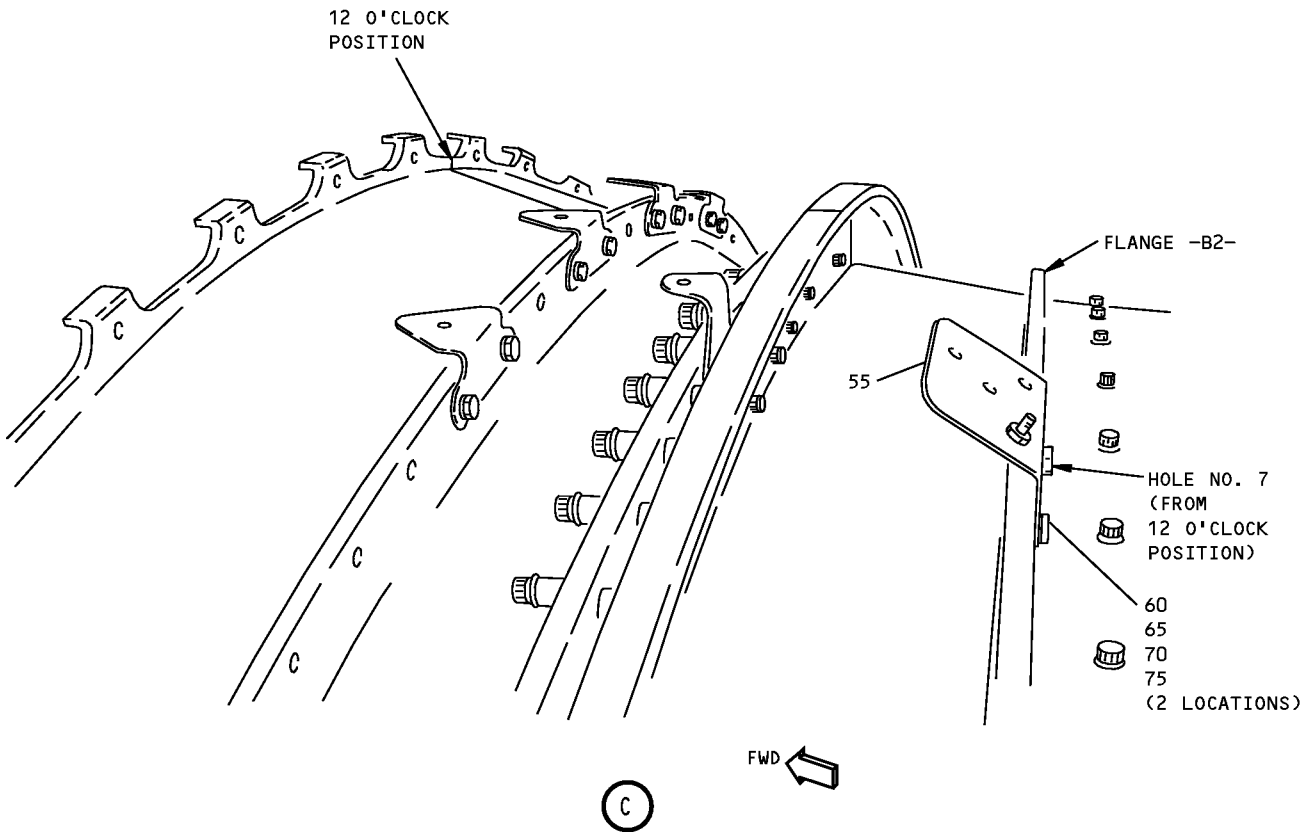
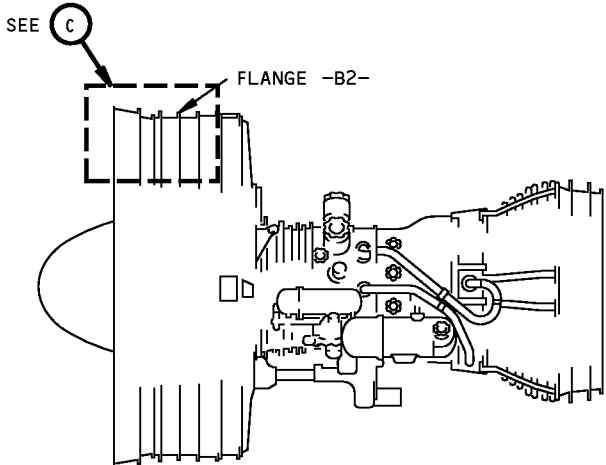
ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-1		<b>BRACKET INSTALLATION - LEFT SIDE FAN CASE</b> <b>(FIGURE 3-1, SHEET 2)</b>  ATTACH BRACKET (30) TO ENGINE FLANGE B1 AT 11:30 POSITION USING FASTENERS (35 THRU 50). USE WET primer, C00259 (C1) ON FAYING SURFACES BETWEEN BRACKET AND FLANGE B1 .				
30	332T4922-644	. BRACKET	FWD	FWD		1
30	332T4922-341	. BRACKET (REPLACED BY 332T4922-644)	FWD	FWD		-
35	BACB30LM4-5	. BOLT				2
40	BACW10BP4CD	. WASHER (CSK TOWARDS BOLT HEAD)				2
45	NAS1149F0463P	. WASHER				2
50	BACN11Z4C	. NUT				2
50	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)			OPT	-
C1	C00259	. PRIMER			CON	AR

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P/P BUILDUP FIGURE 3-1

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NOTE: ALL HOLES ARE NUMBERED FROM THE 12 O'CLOCK POSITION.

Bracket Installation - Left Side Fan Case  
Figure 3-1 (Sheet 3)

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-1		<b>BRACKET INSTALLATION - LEFT SIDE FAN CASE</b> <b>(FIGURE 3-1, SHEET 3)</b>  CLEAN MATING SURFACES BETWEEN BRACKET (55) AND ENGINE FLANGE B2 WITH solvent, B00148 (C2). ATTACH BRACKET (55) TO ENGINE FLANGE B2 AT 11:00 POSITION USING FASTENERS (60 THRU 75). CHECK BONDING RESISTANCE (MAX 0.005 OHM) BETWEEN BRACKET AND BASIC STRUCTURE. APPLY FILLET SEAL AROUND BRACKET USING sealant, A00160 (C3) OR adhesive, A00027 (C4).				
55	332T4922-339	. GROUND BRACKET	AFT	FWD		1
55	332T4922-324	. GROUND BRACKET (OPT)				-
60	BACB30LM4-4	. BOLT				2
65	BACW10BP4CD	. WASHER (CSK TOWARDS BOLT HEAD)				2
70	BACW10BP4DP	. WASHER				2
75	BACN11Z4C	. NUT				2
75	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)			OPT	-
C2	B00148	. SOLVENT			CON	AR
C3	A00160	. SEALANT			CON	AR
C4	A00027	. ADHESIVE			CON	AR

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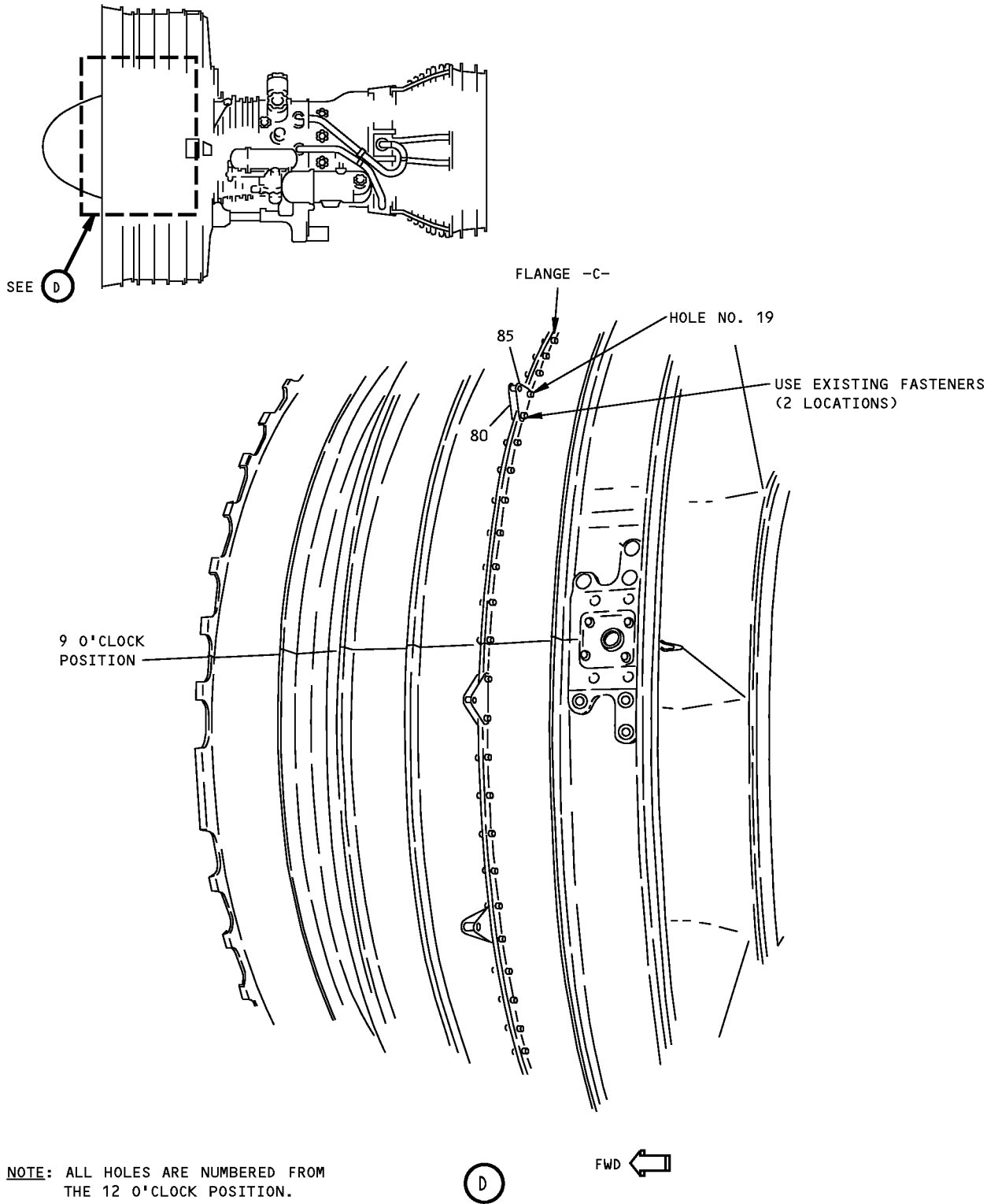
P/P BUILDUP FIGURE 3-1

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**POWERPLANT BUILDUP MANUAL**



**NOTE:** ALL HOLES ARE NUMBERED FROM THE 12 O'CLOCK POSITION.

**Bracket Installation - Left Side Fan Case  
Figure 3-1 (Sheet 4)**

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P/P BUILDUP FIGURE 3-1

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-1		<b>BRACKET INSTALLATION - LEFT SIDE FAN CASE</b> <b>(FIGURE 3-1, SHEET 4)</b>  ATTACH BRACKETS (80, 85) TO ENGINE FLANGE C AT 7:00 POSITION USING EXISTING FASTENERS. USE WET primer, C00259 (C1) ON FAYING SURFACES BETWEEN BRACKET AND FLANGE C . TIGHTEN TO 85-95 LB-IN.				
80	332T4922-291	. BRACKET	FWD	FWD		1
85	332T4922-291	. BRACKET	AFT	AFT		1
C1	C00259	. PRIMER			CON	AR

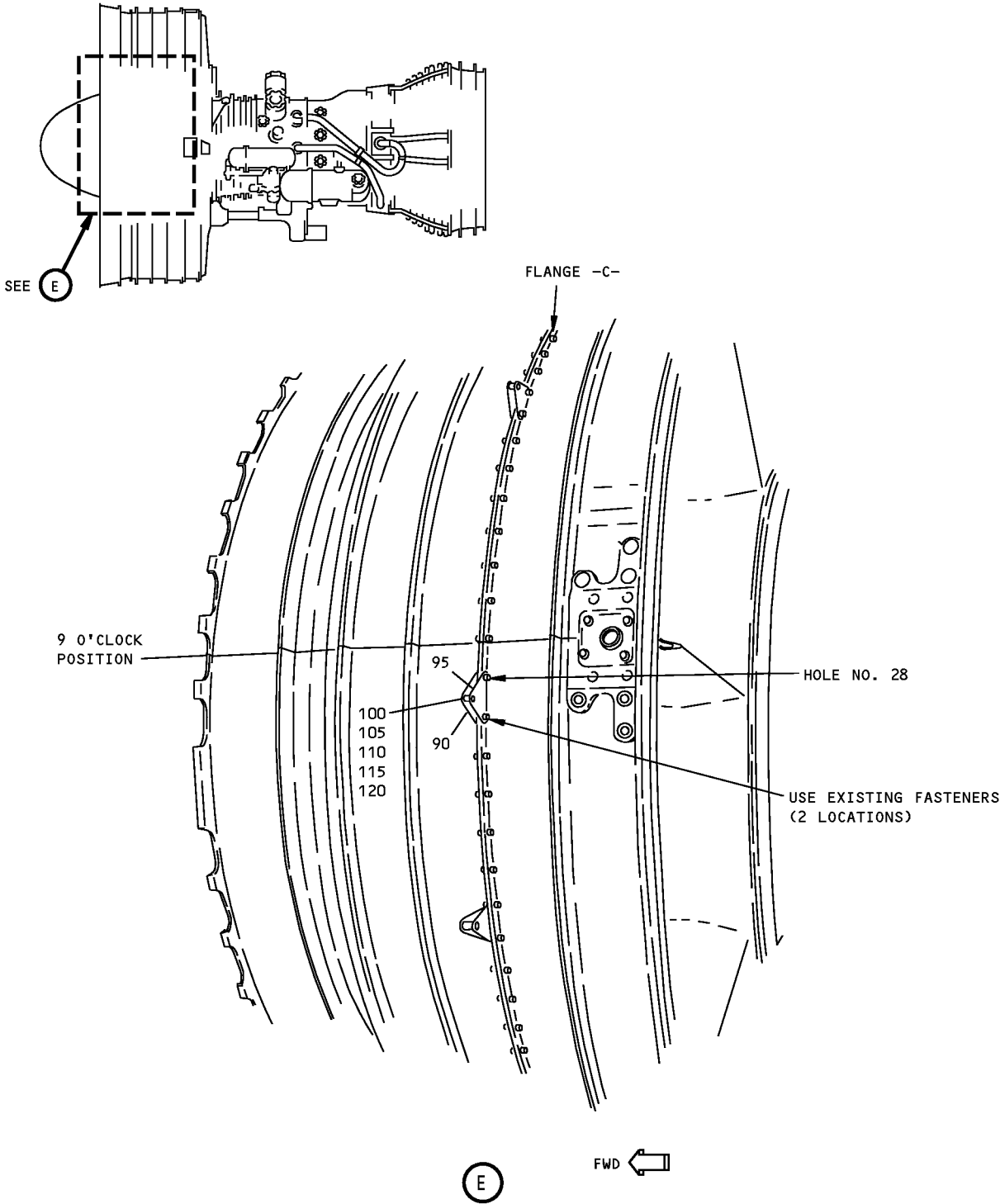
**71-00-02**

P/P BUILDUP FIGURE 3-1

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**POWERPLANT BUILDUP MANUAL**



**NOTE:** ALL HOLES ARE NUMBERED FROM THE 12 0'CLOCK POSITION.

**Bracket Installation - Left Side Fan Case  
Figure 3-1 (Sheet 5)**

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P/P BUILDUP FIGURE 3-1  
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## POWERPLANT BUILDUP MANUAL

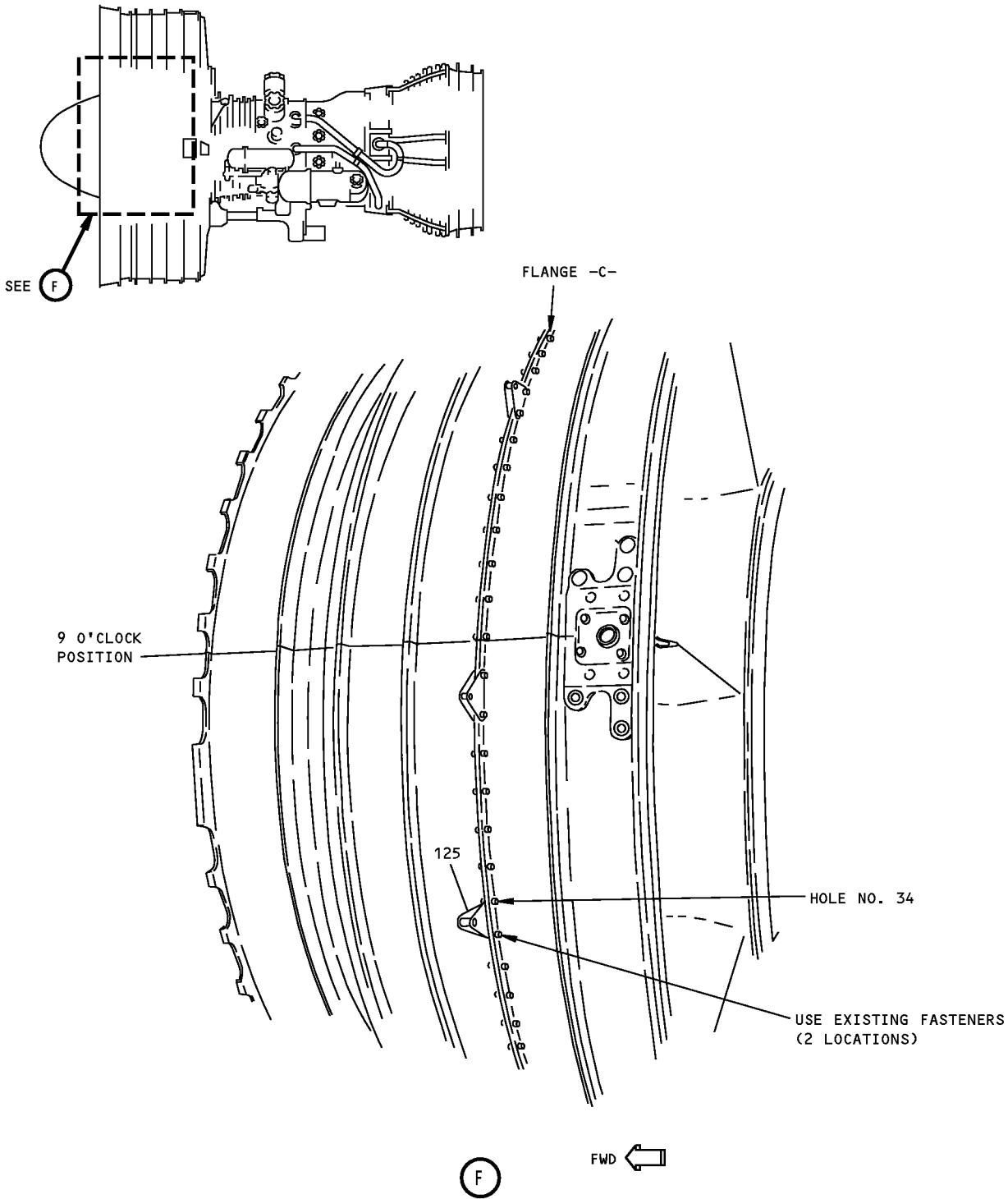
ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-1		<b>BRACKET INSTALLATION - LEFT SIDE FAN CASE</b> <b>(FIGURE 3-1, SHEET 5)</b>  ATTACH BRACKETS (90, 95) TO ENGINE, FLANGE C AT 8:00 AND 9:00 POSITIONS USING EXISTING FASTENERS. DISCARD YELLOW SPACERS. USE WET primer, C00259 (C1) ON FAYING SURFACES. TIGHTEN TO 85-95 LB-IN. SECURE SPOOL (100) BETWEEN BRACKETS (90,95) WITH FASTENERS (105 THRU 115). USE ADDITIONAL WASHERS (120) BETWEEN SPOOL (100) AND BRACKETS (90,95), AS REQUIRED, TO OBTAIN PROPER FIT.				
90	332T4922-677	. BRACKET	FWD	FWD		1
90	332T4922-673	. BRACKET (REPLACED BY 332T4922-677)	FWD	FWD		-
90	332T4922-672	. BRACKET (REPLACED BY 332T4922-673)	FWD	FWD		-
90	332T4922-327	. BRACKET (REPLACED BY 332T4922-672)	FWD	FWD		-
95	332T4922-677	. BRACKET	AFT	AFT		1
95	332T4922-673	. BRACKET (REPLACED BY 332T4922-677)	AFT	AFT		-
95	332T4922-672	. BRACKET (REPLACED BY 332T4922-673)	AFT	AFT		-
95	332T4922-327	. BRACKET (REPLACED BY 332T4922-672)	AFT	AFT		-
100	RC2769-1	. SPOOL (V08844)				1
105	BACB30LM3-16	. BOLT				1
110	NAS1149C0332R	. WASHER				1
115	BACN11Z3C	. NUT				1
115	BACN11Z3CK	. NUT (OPTIONAL TO BACN11Z3C)			OPT	-
120	NAS1149C0332R	. WASHER				AR
C1	C00259	. PRIMER			CON	AR

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P/P BUILDUP FIGURE 3-1

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**NOTE:** ALL HOLES ARE NUMBERED FROM THE 12 O'CLOCK POSITION.

**Bracket Installation - Left Side Fan Case  
Figure 3-1 (Sheet 6)**

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P/P BUILDUP FIGURE 3-1

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-1		<b>BRACKET INSTALLATION - LEFT SIDE FAN CASE</b> <b>(FIGURE 3-1, SHEET 6)</b>  ATTACH BRACKET (125) TO ENGINE FLANGE C AT 8:00 POSITION USING EXISTING FASTENERS. DISCARD YELLOW SPACERS. USE WET primer, C00259 (C1) ON FAYING SURFACES. TIGHTEN TO 85-95 LB-IN.				
125	332T4922-657	. BRACKET	FWD	FWD		1
125	332T4922-618	. BRACKET (REPLACED BY 332T4922-657)	FWD	FWD		-
125	332T4922-150	. BRACKET (REPLACED BY 332T4922-618)	FWD	FWD		-
C1	C00259	. PRIMER			CON	AR

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P/P BUILDUP FIGURE 3-1

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FIGURE 3-2

**BRACKET INSTALLATION - RIGHT SIDE FAN  
CASE**

REF QEC TASK NO.: 3

REF DWG: 332T4920  
332T4900

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

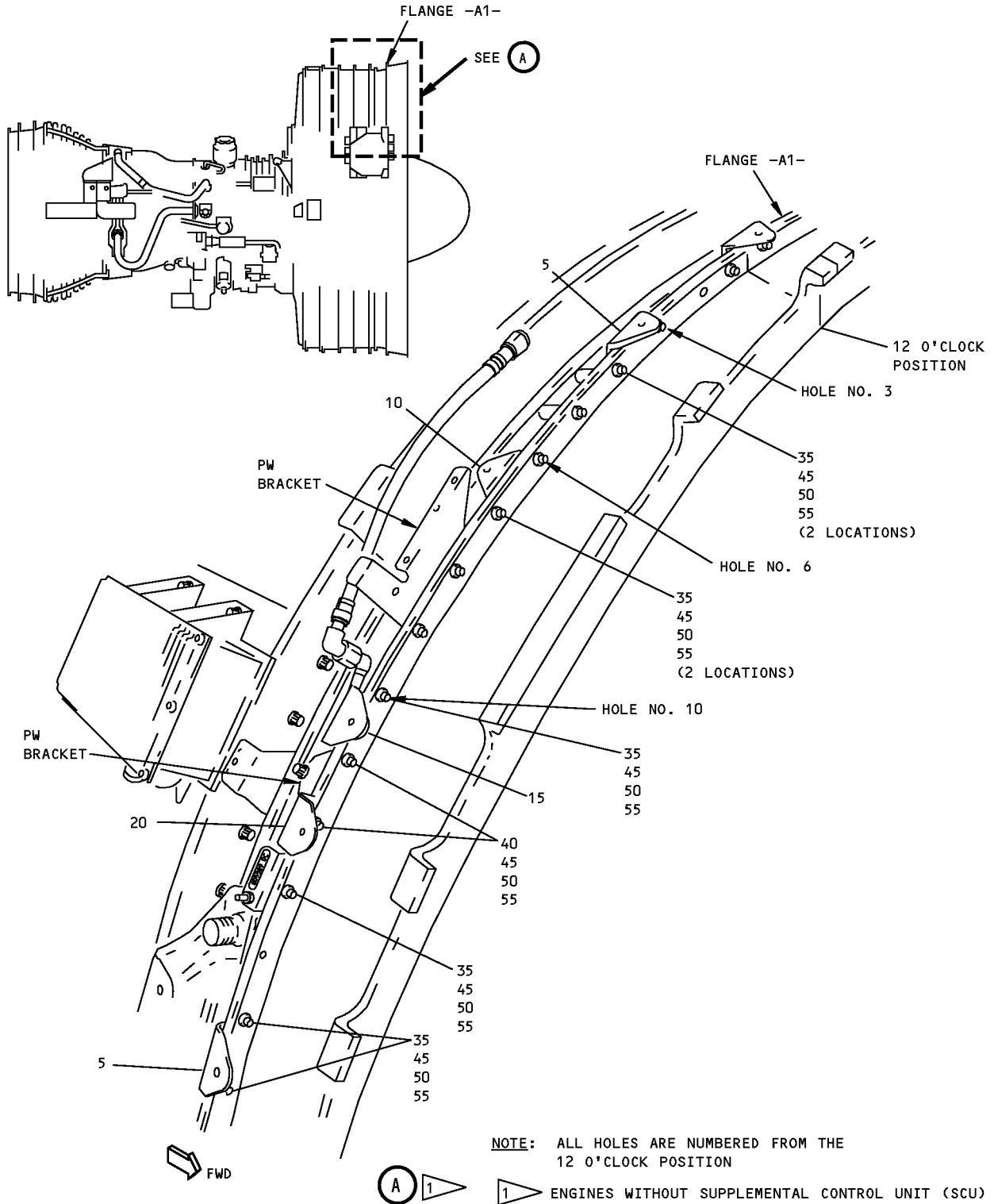
**71-00-02**

P/P BUILDUP FIGURE 3-2

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Fan Case  
Figure 3-2 (Sheet 1)**

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P/P BUILDUP FIGURE 3-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-2		<b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 3-2, SHEET 1)</b>  CLEAN MATING SURFACES BETWEEN BRACKET (20) AND ENGINE FLANGE A1 WITH solvent, B00148 (C1). ATTACH BRACKETS (5 THRU 20) TO ENGINE FLANGE A1 AT 12:00 THRU 1:30 POSITIONS USING FASTENERS (35 THRU 55). INSTALL BRACKETS (15, 20) BENEATH PW BRACKETS. DISCARD PW FASTENERS. CHECK BONDING RESISTANCE (MAX 0.005 OHM) BETWEEN BRACKET (20) AND BASIC STRUCTURE. APPLY FILLET SEAL AROUND BRACKET (20) USING sealant, A00160 (C2) OR adhesive, A00027 (C3).				
5	332T4922-43	. BRACKET	AFT	FWD		2
10	332T4922-333	. BRACKET	AFT	AFT		1
15	332T4922-276	. BRACKET	AFT	FWD		1
20	332T4922-309	. GROUND BRACKET	AFT	FWD		1
35	BACB30LM4U4	. BOLT				8
40	BACB30LM4U5	. BOLT				2
45	BACW10BP4ACU	. WASHER (CSK TOWARDS BOLT HEAD)				10
50	NAS1149C0463R	. WASHER				10
55	BACN11Z4C	. NUT				10
55	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)			OPT	-
C1	B00148	. SOLVENT			CON	AR
C2	A00160	. SEALANT			CON	AR
C3	A00027	. ADHESIVE			CON	AR

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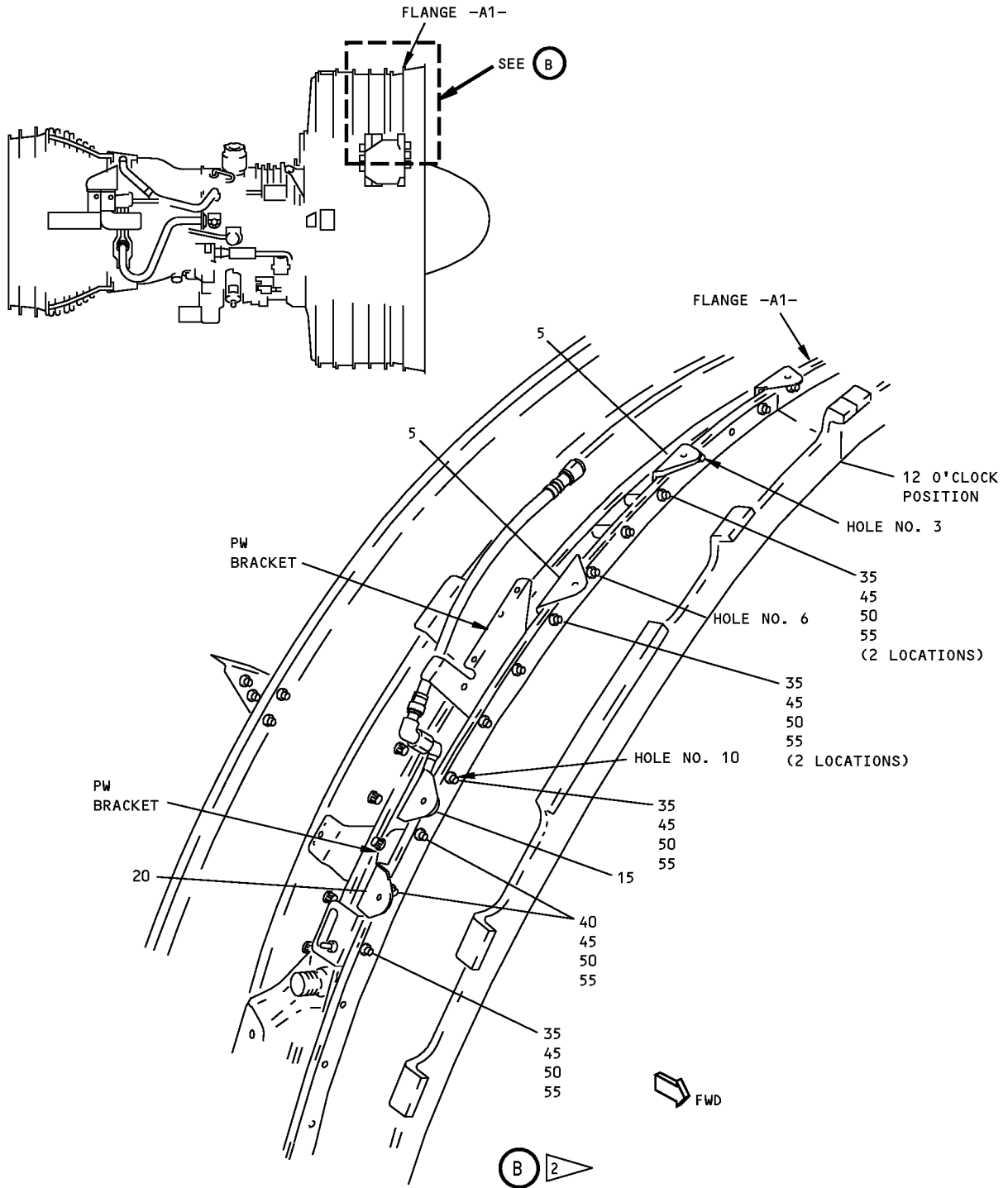
P/P BUILDUP FIGURE 3-2

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**POWERPLANT BUILDUP MANUAL**



**NOTE:** ALL HOLES ARE NUMBERED FROM THE 12 O'CLOCK POSITION.

**2** ENGINES WITH SUPPLEMENTAL CONTROL UNIT (SCU)

**Bracket Installation - Right Side Fan Case  
Figure 3-2 (Sheet 2)**

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P/P BUILDUP FIGURE 3-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-2		<b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 3-2, SHEET 2)</b>  CLEAN MATING SURFACES BETWEEN BRACKET (20) AND ENGINE FLANGE A1 WITH solvent, B00148 (C1). ATTACH BRACKETS (5 THRU 20) TO ENGINE FLANGE A1 AT 12:00 THRU 1:30 POSITIONS USING FASTENERS (35 THRU 55). INSTALL BRACKETS (15, 20) BENEATH PW BRACKETS. DISCARD PW FASTENERS. CHECK BONDING RESISTANCE (MAX 0.005 OHM) BETWEEN BRACKET (20) AND BASIC STRUCTURE. APPLY FILLET SEAL AROUND BRACKET (20) USING sealant, A00160 (C2) OR adhesive, A00027 (C3).				
5	332T4922-436	. BRACKET	AFT	FWD		2
15	332T4922-276	. BRACKET	AFT	FWD		1
20	332T4922-653	. GROUND BRACKET	AFT	FWD		1
20	332T4922-433	. GND BRKT (REPLACED BY 332T4922-653)	AFT	FWD		-
35	BACB30LM4U4	. BOLT				6
40	BACB30LM4U5	. BOLT				2
45	BACW10BP4ACU	. WASHER (CSK TOWARDS BOLT HEAD)				8
50	NAS1149C0463R	. WASHER				8
55	BACN11Z4C	. NUT				8
55	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)			OPT	-
C1	B00148	. SOLVENT			CON	AR
C2	A00160	. SEALANT			CON	AR
C3	A00027	. ADHESIVE			CON	AR

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P/P BUILDUP FIGURE 3-2

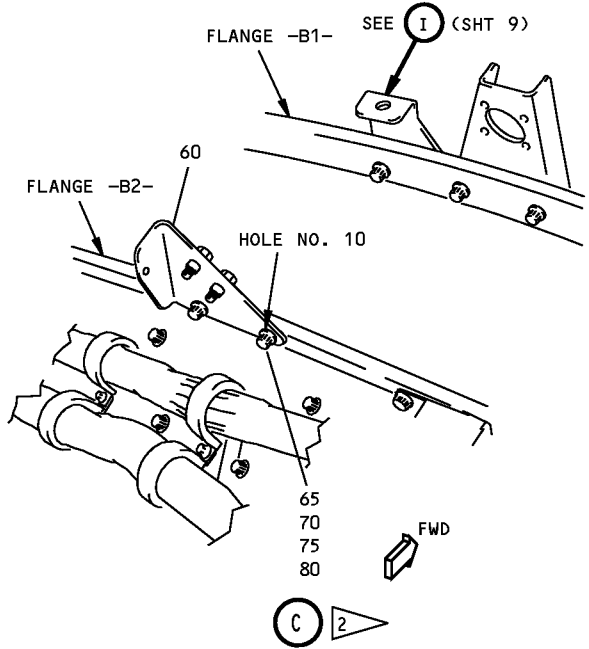
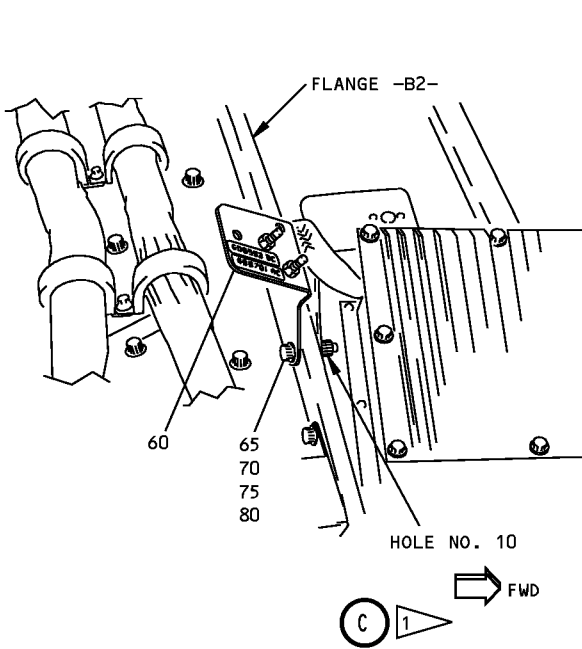
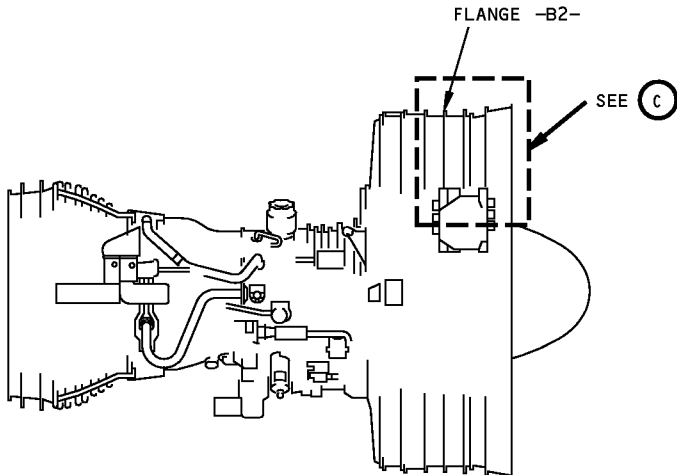
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POWERPLANT BUILDUP MANUAL**



- 1 ENGINES WITHOUT SUPPLEMENTAL CONTROL UNIT (SCU)
- 2 ENGINES WITH SUPPLEMENTAL CONTROL UNIT (SCU)

**Bracket Installation - Right Side Fan Case  
Figure 3-2 (Sheet 3)**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-2		<b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE</b> <b>(FIGURE 3-2, SHEET 3)</b>  CLEAN MATING SURFACES BETWEEN BRACKET (60) AND ENGINE FLANGE B2 WITH solvent, B00148 (C1). ATTACH BRACKET (60) TO ENGINE FLANGE B2 AT 11:30 POSITION USING FASTENERS (65 THRU 80). CHECK BONDING RESISTANCE (MAX 0.005 OHM) BETWEEN BRACKET AND BASIC STRUCTURE. APPLY FILLET SEAL AROUND BRACKET USING sealant, A00160 (C2) OR adhesive, A00027 (C3).				
60	332T4922-652	. GROUND BRACKET <sup>[2]</sup>	AFT	AFT		1
60	332T4922-431	. BRKT (REPLACED BY 332T4922-652) <sup>[2]</sup>	AFT	AFT		-
60	332T4922-340	. GROUND BRACKET <sup>[1]</sup>	AFT	AFT		1
60	332T4922-194	. GROUND BRACKET (OPT) <sup>[1]</sup>	AFT	AFT		1
65	BACB30LM4-4	. BOLT				2
70	BACW10BP4CD	. WASHER (CSK TOWARDS BOLT HEAD)				2
75	BACW10BP4DP	. WASHER				2
80	BACN11Z4C	. NUT				2
80	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)			OPT	-
C1	B00148	. SOLVENT			CON	AR
C2	A00160	. SEALANT			CON	AR
C3	A00027	. ADHESIVE			CON	AR
		*[1] ENGINES WITHOUT SCU				
		*[2] ENGINES WITH SCU				

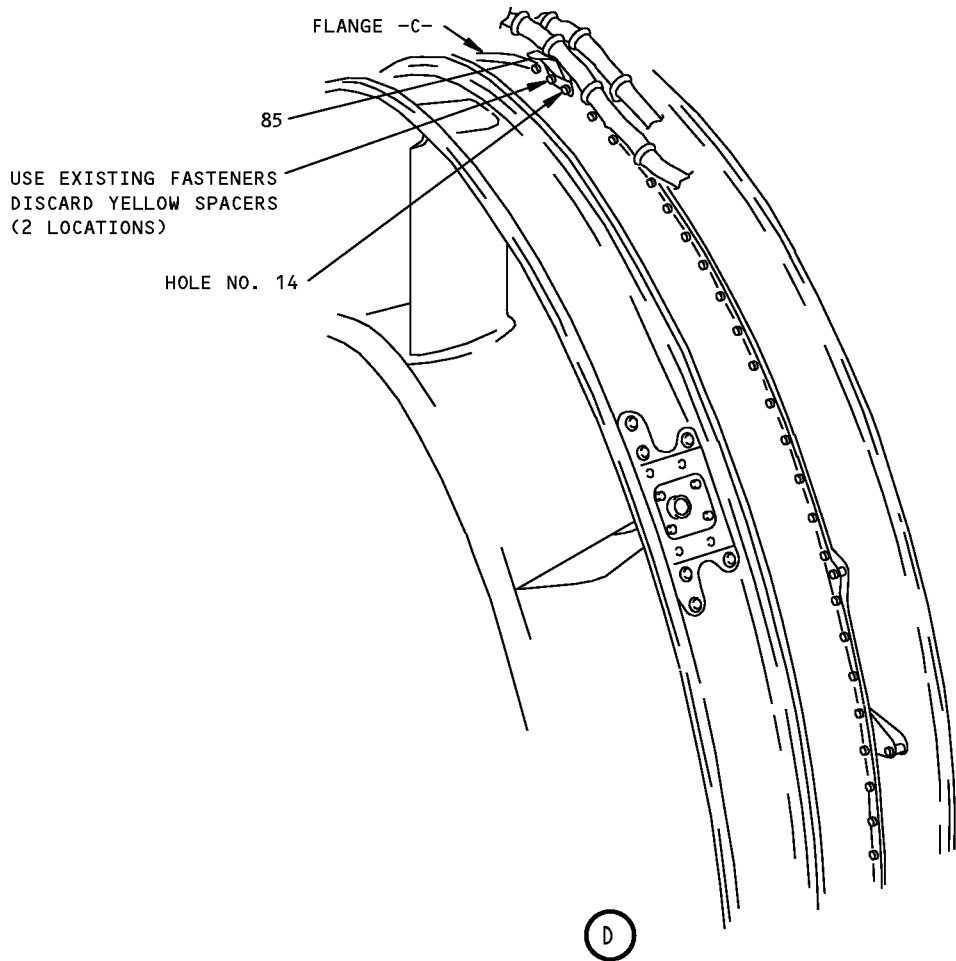
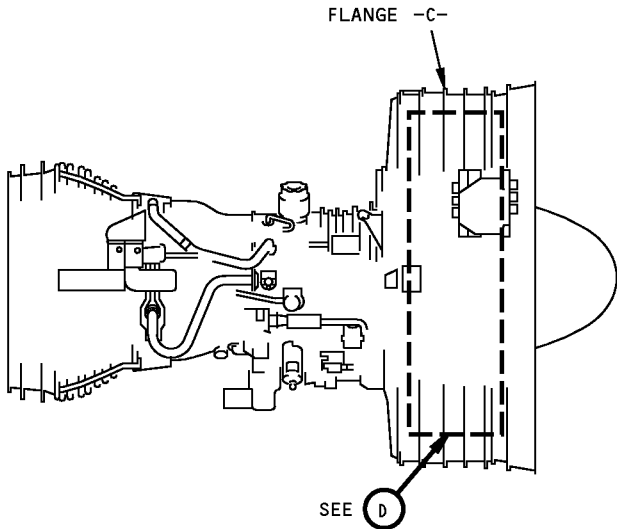
71-00-02

P/P BUILDUP FIGURE 3-2

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POWERPLANT BUILDUP MANUAL



Bracket Installation - Right Side Fan Case  
Figure 3-2 (Sheet 4)

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P/P BUILDUP FIGURE 3-2

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-2		<p><b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE</b>  <b>(FIGURE 3-2, SHEET 4)</b></p> <p>ATTACH BRACKET (85) OVER PW BRACKET ON FLANGE C AT 1:30 POSITION USING EXISTING FASTENERS. DISCARD YELLOW SPACERS. USE WET primer, C00259 (C4) ON FAYING SURFACES. TIGHTEN TO 85-95 LB-IN.</p>				
85	332T4922-646	. BRACKET	AFT	AFT		1
85	332T4922-27	. BRACKET (REPLACED BY 332T4922-646)	AFT	AFT		-
C4	C00259	. PRIMER			CON	AR

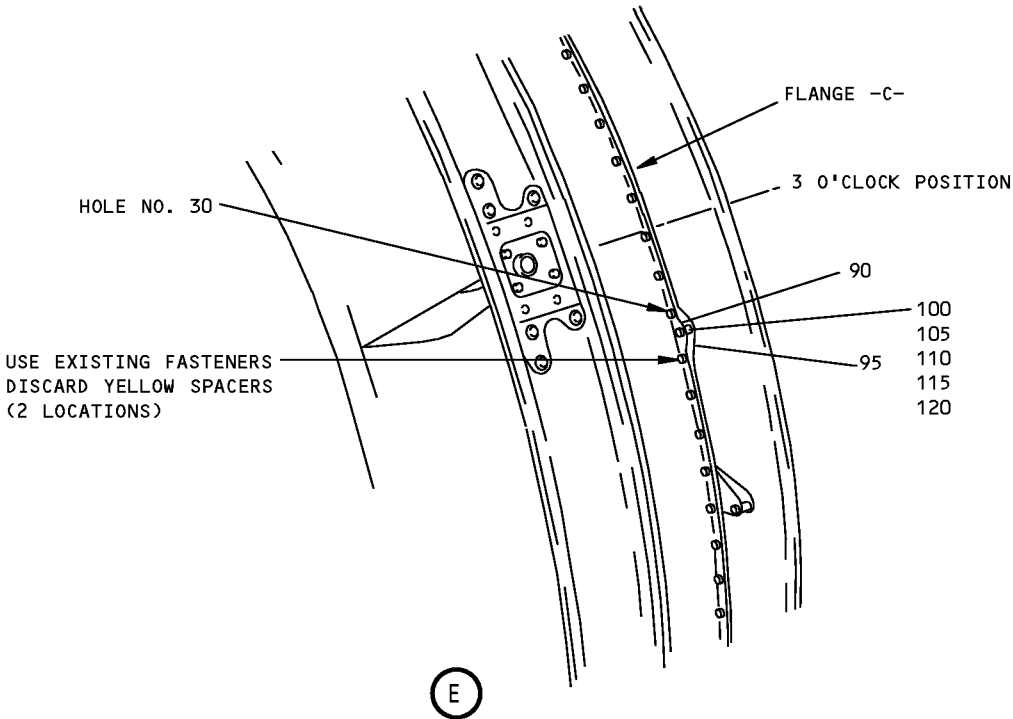
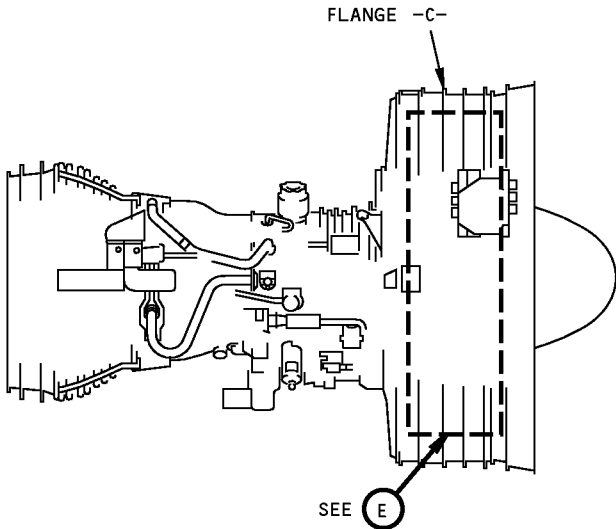
**71-00-02**

P/P BUILDUP FIGURE 3-2

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Fan Case  
Figure 3-2 (Sheet 5)**

**71-00-02**

P/P BUILDUP FIGURE 3-2  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-2		<b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE</b> <b>(FIGURE 3-2, SHEET 5)</b>  ATTACH BRACKETS (90, 95) TO ENGINE FLANGE C AT 3:00 THRU 4:00 POSITIONS USING EXISTING FASTENERS. DISCARD YELLOW SPACERS USE WET primer, C00259 (C4) ON FAYING SURFACES. TIGHTEN TO 85-95 LB-IN. SECURE SPOOL (100) BETWEEN BRACKETS (90, 95) WITH FASTENERS (105 THRU 115) USE ADDITIONAL WASHERS (120) BETWEEN SPOOL (100) AND BRACKETS (90, 95) AS REQUIRED TO OBTAIN PROPER FIT.				
90	332T4922-677	. BRACKET	FWD	FWD		1
90	332T4922-673	. BRACKET (REPLACED BY 332T4922-677)	FWD	FWD		-
90	332T4922-672	. BRACKET (REPLACED BY 332T4922-673)	FWD	FWD		-
90	332T4922-327	. BRACKET (REPLACED BY 332T4922-672)	FWD	FWD		-
95	332T4922-677	. BRACKET	AFT	FWD		1
95	332T4922-673	. BRACKET (REPLACED BY 332T4922-677)	AFT	FWD		-
95	332T4922-672	. BRACKET (REPLACED BY 332T4922-673)	AFT	FWD		-
95	332T4922-327	. BRACKET (REPLACED BY 332T4922-672)	AFT	FWD		-
100	RC2769-1	. SPOOL (V08844)				1
105	BACB30LM3-16	. BOLT				1
110	NAS1149C0332R	. WASHER				1
115	BACN11Z3C	. NUT				1
115	BACN11Z3CK	. NUT (OPTIONAL TO BACN11Z3C)			OPT	-
120	NAS1149C0332R	. WASHER				AR
C4	C00259	. PRIMER			CON	AR

71-00-02

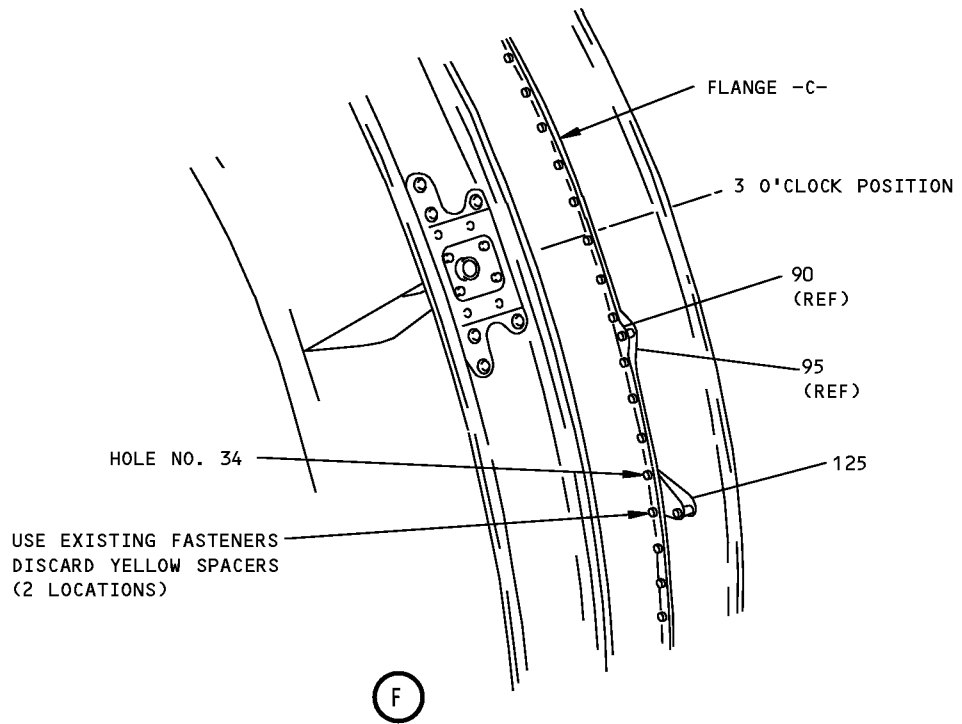
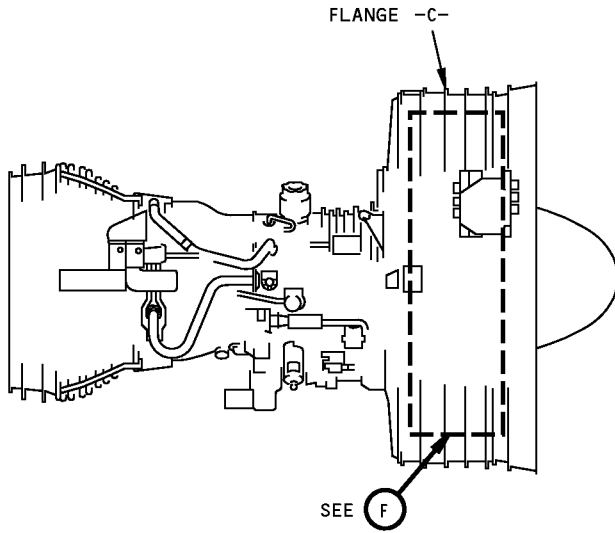
P/P BUILDUP FIGURE 3-2

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Fan Case**  
**Figure 3-2 (Sheet 6)**

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P/P BUILDUP FIGURE 3-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-2		<b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 3-2, SHEET 6)</b>  <b>CAUTION:</b> BRACKET MUST BE INSTALLED ON FORWARD SIDE OF FAN CASE FLANGE. IF BRACKET IS INCORRECTLY INSTALLED, DAMAGE CAN OCCUR WHEN FAN COWL PANEL IS CLOSED AFTER ENGINE INSTALLATION TO STRUT.  ATTACH BRACKET (125) TO ENGINE FLANGE C AT 3:30 POSITION USING EXISTING FASTENERS. DISCARD YELLOW SPACERS. USE WET primer, C00259 (C4) ON FAYING SURFACES. TIGHTEN TO 85-95 LB-IN.				
125	332T4925-91	. BRACKET	FWD	FWD		1
125	332T4925-52	. BRACKET (REPLACED BY 332T4925-91)	FWD	FWD	LTD	-
125	332T4925-27	. BRACKET (REPLACED BY 332T4925-52)	FWD	FWD	LTD	-
125	332T4925-20	. BRACKET (REPLACED BY 332T4925-27)	FWD	FWD	LTD	-
125	332T4922-353	. BRACKET (REPLACED BY 332T4925-20)	FWD	FWD	LTD	-
C4	C00259	. PRIMER			CON	AR

**71-00-02**

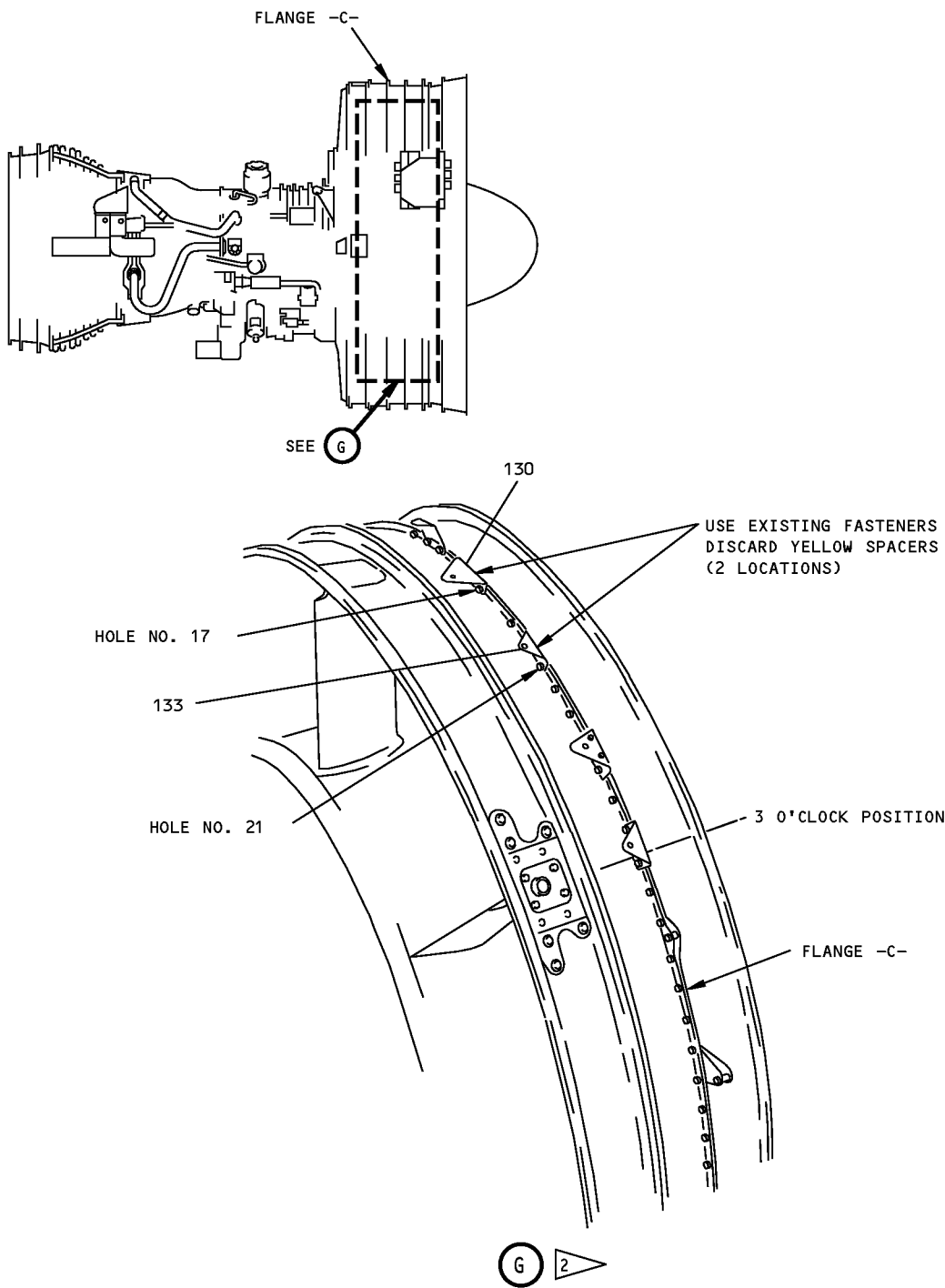
P/P BUILDUP FIGURE 3-2

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**POWERPLANT BUILDUP MANUAL**



2 ENGINES WITH SUPPLEMENTAL CONTROL UNIT (SCU)

**Bracket Installation - Right Side Fan Case  
Figure 3-2 (Sheet 7)**

**71-00-02**

P/P BUILDUP FIGURE 3-2

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-2		<b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE</b> <b>(FIGURE 3-2, SHEET 7)</b>  ATTACH BRACKETS (130, 133) TO ENGINE FLANGE C AT 2:00 POSITION USING EXISTING FASTENERS. DISCARD YELLOW SPACERS. USE WET primer, C00259 (C4) ON FAYING SURFACES, TIGHTEN TO 85-95 LB-IN.				
130	332T4922-623	. BRACKET	AFT	AFT		1
130	332T4922-445	. BRACKET (REPLACED BY 332T4922-623)	AFT	AFT		-
133	332T4922-625	. BRACKET	AFT	AFT		1
133	332T4922-448	. BRACKET (REPLACED BY 332T4922-625)	AFT	AFT		-
C4	C00259	. PRIMER			CON	AR

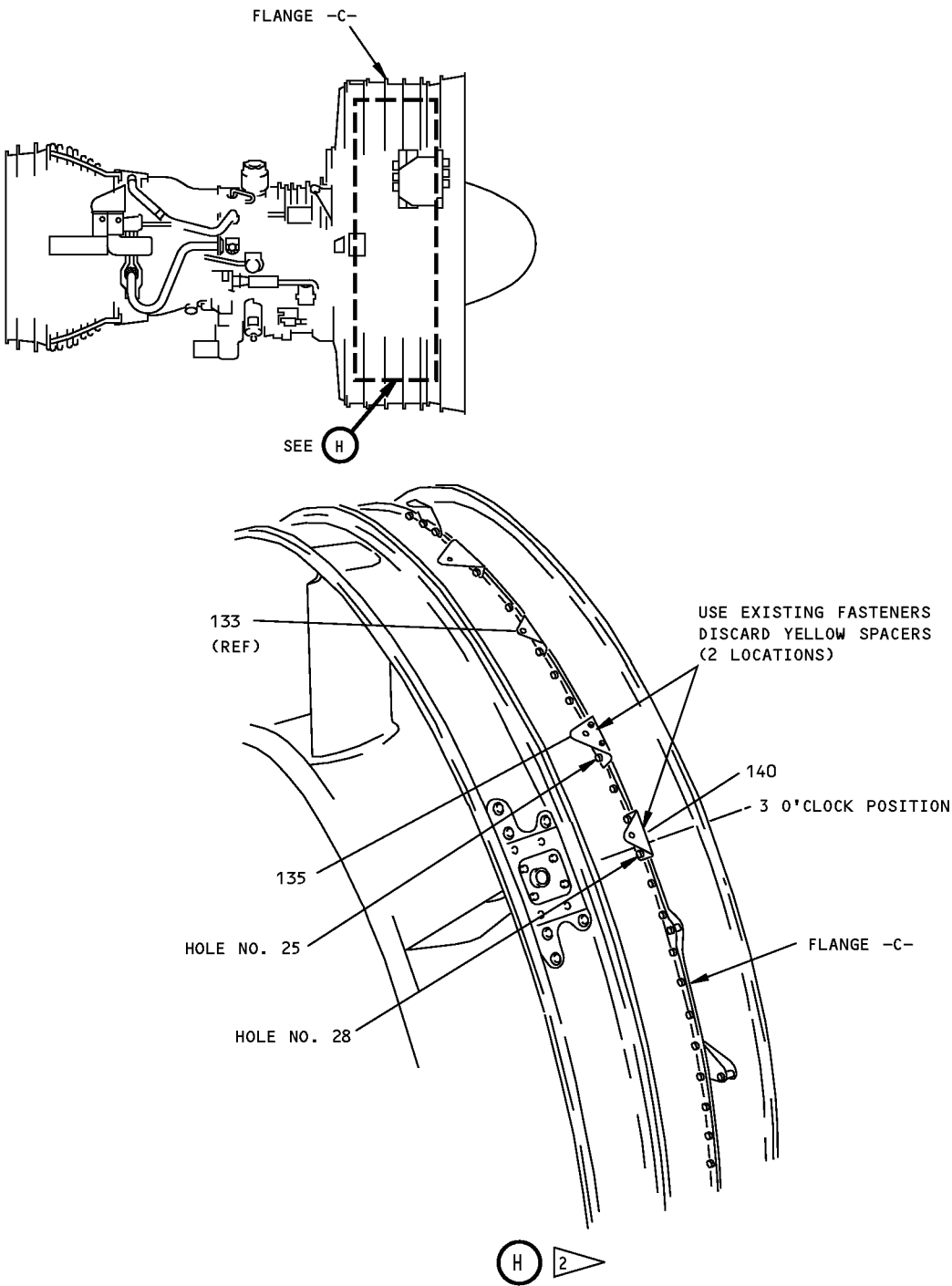
**71-00-02**

P/P BUILDUP FIGURE 3-2

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**POWERPLANT BUILDUP MANUAL**



2 ENGINES WITH SUPPLEMENTAL CONTROL UNIT (SCU)

**Bracket Installation - Right Side Fan Case  
Figure 3-2 (Sheet 8)**

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P/P BUILDUP FIGURE 3-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-2		<b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE</b> <b>(FIGURE 3-2, SHEET 8)</b>  CLEAN MATING SURFACES BETWEEN BRACKET (135) AND ENGINE FLANGE C WITH A WIRE BONDING BRUSH THEN FINAL CLEAN WITH solvent, B00148 (C1) ATTACH BRACKET (135) TO ENGINE FLANGE C AT 2:30 POSITION USING EXISTING FASTENERS. DISCARD YELLOW SPACERS. TIGHTEN TO 85-95 LB-IN. CHECK BONDING RESISTANCE (MAX 0.005 OHM) BETWEEN BRACKET (135) AND BASIC STRUCTURE. APPLY FILLET SEAL AROUND BRACKET (135) USING sealant, A00160 (C2) OR adhesive, A00027 (C3).				
135	332T4922-626	. GND BRKT	AFT	AFT		1
135	332T4922-447	. GND BRKT (REPLACED BY 332T4922-626)	AFT	AFT		-
C1	B00148	. SOLVENT			CON	AR
C2	A00160	. SEALANT			CON	AR
C3	A00027	. ADHESIVE			CON	AR
		ATTACH BRACKET (140) TO ENGINE FLANGE C AT 3:00 POSITION USING EXISTING FASTENERS. DISCARD YELLOW SPACERS. USE WET primer, C00259 (C4) ON FAYING SURFACES, TIGHTEN TO 85-95 LB-IN.				
140	332T4922-623	. BRACKET	AFT	AFT		1
140	332T4922-445	. BRACKET (REPLACED BY 332T4922-623)	AFT	AFT		-
C4	C00259	. PRIMER			CON	AR

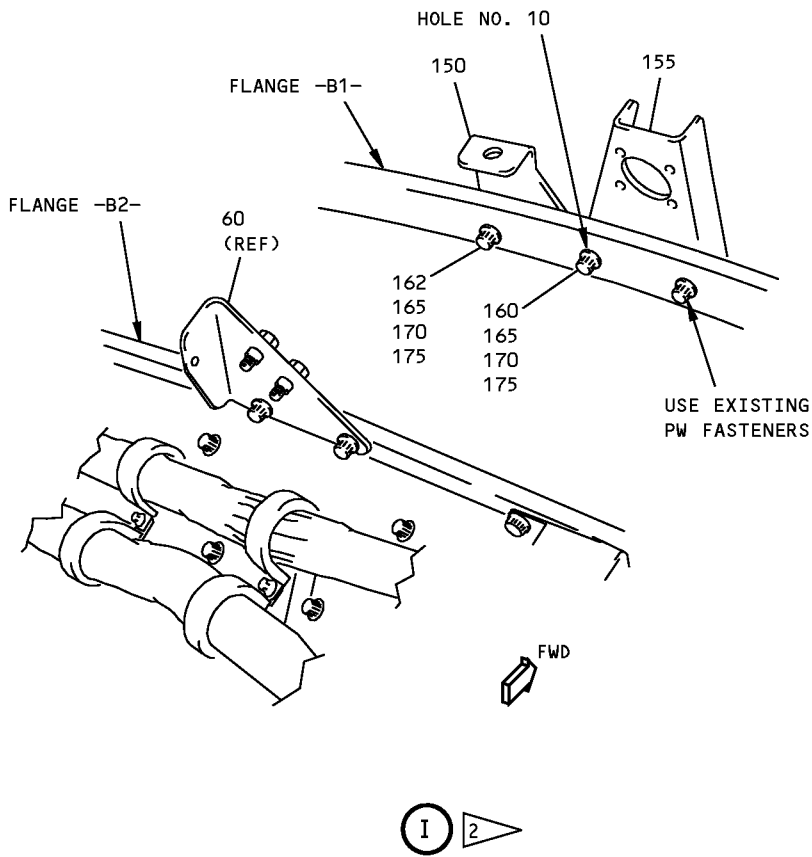
71-00-02

P/P BUILDUP FIGURE 3-2

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POWERPLANT BUILDUP MANUAL



2 ENGINES WITH SUPPLEMENTAL CONTROL UNIT (SCU)

Bracket Installation - Right Side Fan Case  
Figure 3-2 (Sheet 9)

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P/P BUILDUP FIGURE 3-2  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-2		<b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE</b> <b>(FIGURE 3-2, SHEET 9)</b>  CLEAN MATING SURFACES BETWEEN BRACKET (155) AND ENGINE FLANGE B1 WITH A WIRE BONDING BRUSH THEN FINAL CLEAN WITH solvent, B00148 (C1). ATTACH BRACKETS (150, 155) TO ENGINE FLANGE B1 AT 1:00 POSITION USING FASTENERS (160 THRU 175) AND EXISTING FASTENERS. DISCARD YELLOW SPACERS. CHECK BONDING RESISTANCE (MAX 0.005 OHM) BETWEEN BRACKET (155) AND BASIC STRUCTURE. APPLY FILLET SEAL AROUND BRACKET (155) USING sealant, A00160 (C2) OR adhesive, A00027 (C3).				
150	332T4922-434	. BRACKET	FWD	AFT		1
155	332T4922-472	. BRACKET	FWD	FWD		1
160	BACB30LM4-6	. BOLT				1
162	BACB30LM4-5	. BOLT				1
165	BACW10BP4CD	. WASHER (CSK TOWARDS BOLTHEAD)				2
170	NAS1149F0463P	. WASHER				2
175	BACN11Z4C	. NUT				2
175	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)			OPT	-
C1	B00148	. SOLVENT			CON	AR
C2	A00160	. SEALANT			CON	AR
C3	A00027	. ADHESIVE			CON	AR

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P/P BUILDUP FIGURE 3-2

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**FIGURE 3-3**

**BRACKET INSTALLATION - LEFT SIDE CORE  
CASE**

**REF QEC TASK NO.: 3**

**REF DWG: 332T4920  
332T4900**

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

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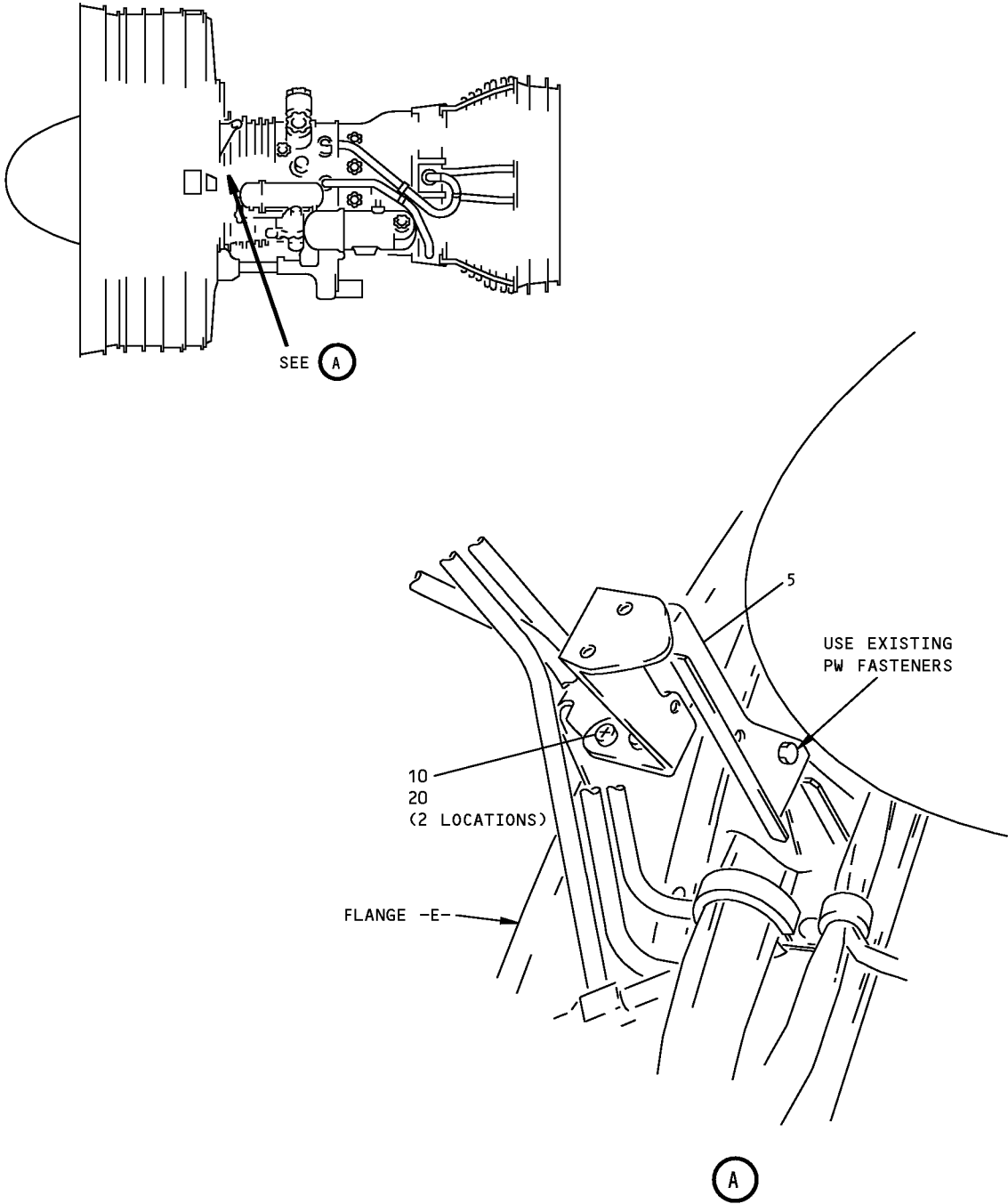
P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 1)**

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P/P BUILDUP FIGURE 3-3  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 1)</b>  ATTACH BRACKET (5) TO PW BRACKETS USING FASTENERS (10 THRU 20) AND EXISTING PW FASTENERS.				
5	332T4922-385	. BRACKET				1
10	BACS12HN3U8	. BOLT				2
20	NAS1149C0332R	. WASHER				2

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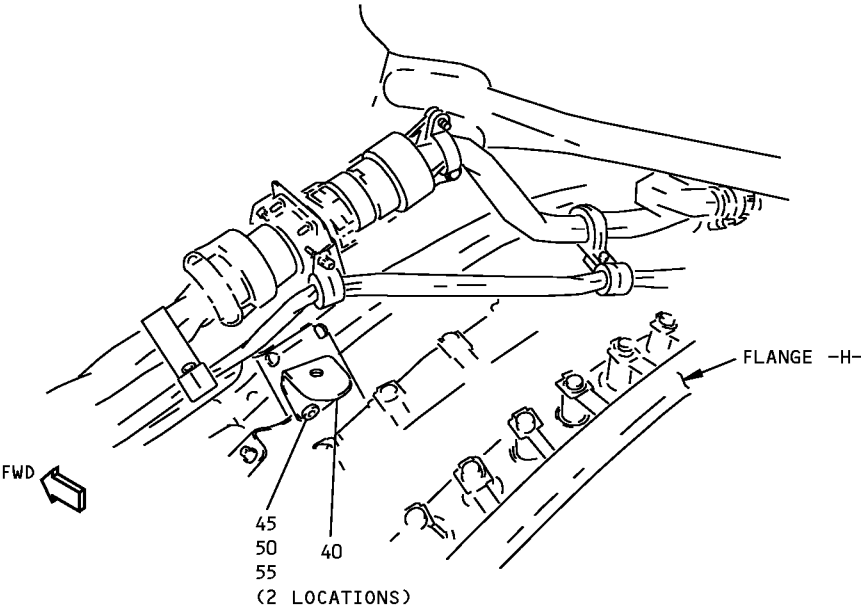
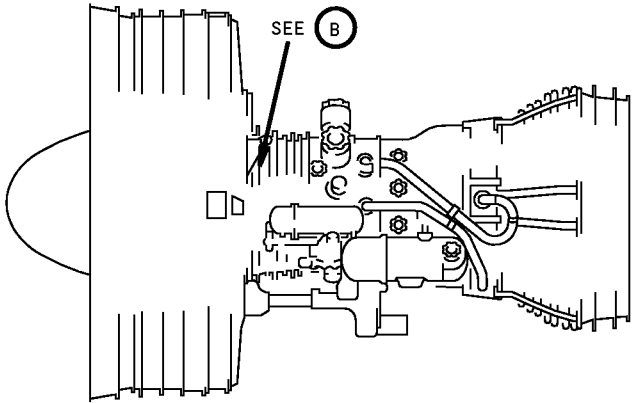
P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL**



**B**

**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 2)**

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 2)</b> ATTACH BRACKET (40) TO PW BRACKET USING FASTENERS (45 THRU 55).				
40	332T4922-312	. BRACKET	AFT	AFT		1
45	BACB30LM3U2	. BOLT				2
50	NAS1149C0332R	. WASHER				2
55	BACN10YR3C	. NUT				2

**71-00-02**

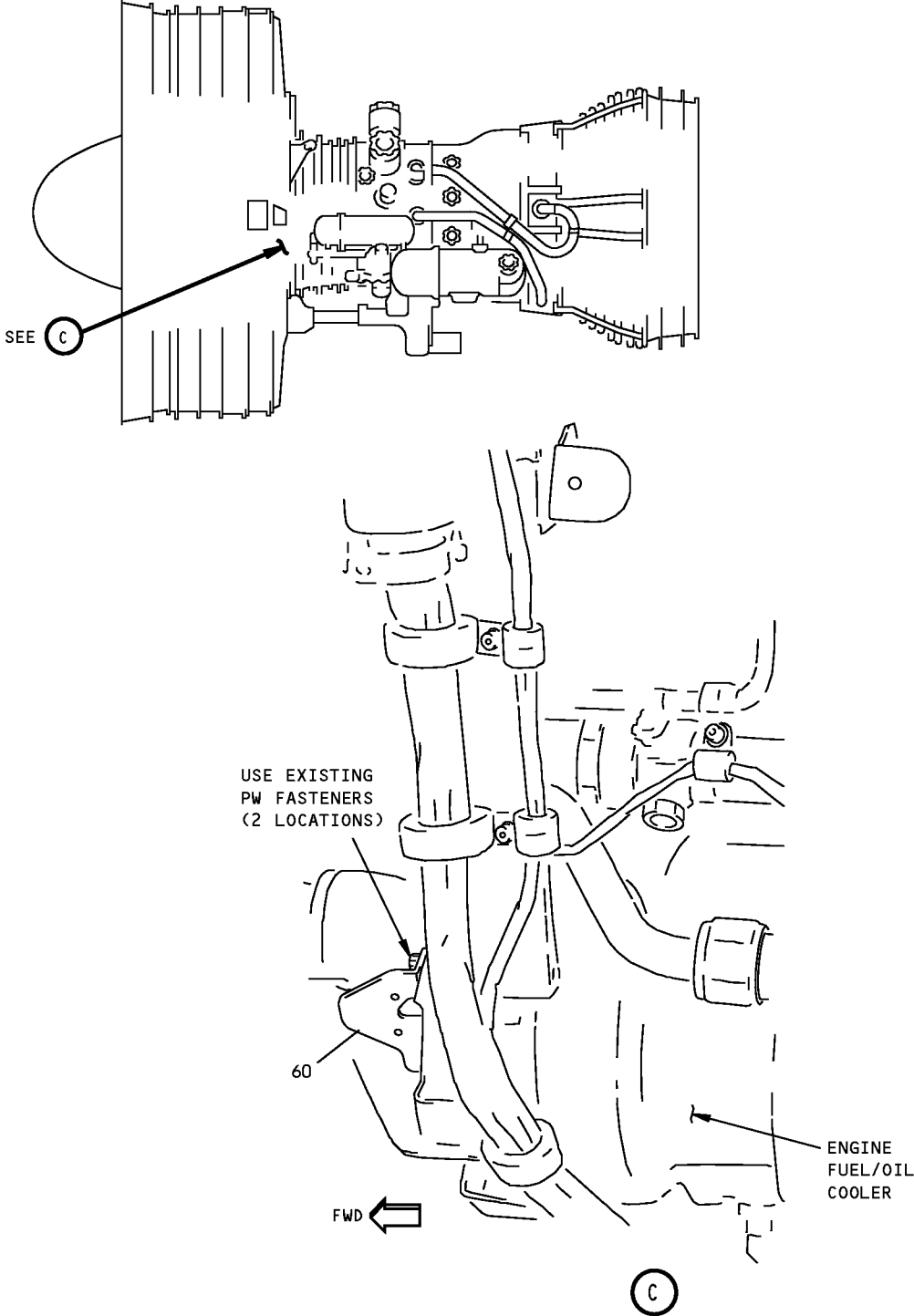
P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case**  
**Figure 3-3 (Sheet 3)**

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P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 3)</b>  ATTACH BRACKET (60) TO PW BRACKET USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 85-95 LB-IN.				
60	332T4925-90	. BRACKET				1
60	332T4925-51	. BRKT (REPLACED BY 332T4925-90)			LTD	-
60	332T4925-1	. BRKT (REPLACED BY 332T4925-51)			LTD	-
60	332T4922-391	. BRKT (REPLACED BY 332T4925-1)			LTD	-

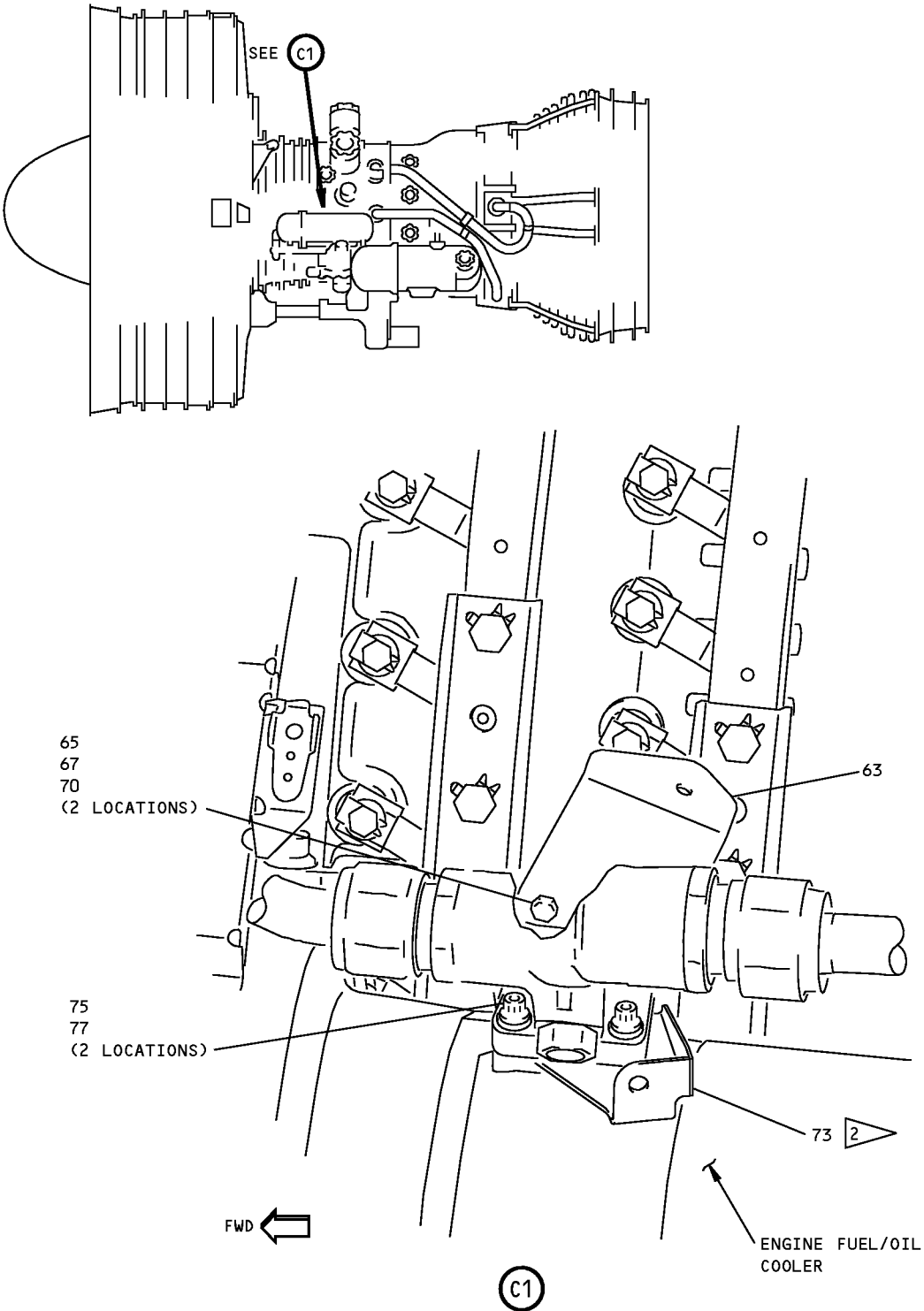
**71-00-02**

P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



2 USE WITH FIG. 4-4, CONFIG D

**Bracket Installation - Left Side Core Case**  
**Figure 3-3 (Sheet 4)**

**71-00-02**

P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 3-3, SHEET 4)</b> ATTACH BRACKET (63) TO ENGINE FUEL OIL COOLER USING FASTENERS (65 THRU 70). . BRACKET . BOLT . WASHER . NUT  <u>ENGINES POST-SB 747-71-2303/ 767-71-0104;</u>  ATTACH BRACKET (73) TO ENGINE FUEL OIL COOLER USING PW FASTENERS OR FASTENERS (75 THRU 77). TIGHTEN BOLTS TO 85-95 LB-IN. . BRACKET <sup>[1]</sup> . BOLT (2 REQD) . WASHER (2 REQD)  *[1] USE WITH OVERBOARD STRUT DRAIN INSTALLATION/Figure 4-4, CONFIG D (POST-SB 747-71-2303/ 767-71-0104)				
63	332T4922-365	. BRACKET				1
65	BACB30LM3U2	. BOLT				2
67	NAS1149C0332R	. WASHER				2
70	BACN10YR3C	. NUT				2
73	332T4921-334	. BRACKET <sup>[1]</sup>			LTD	1
75	BACB30ZF4-11	. BOLT (2 REQD)			LTD	-
77	NAS1149C0432R	. WASHER (2 REQD)			LTD	-

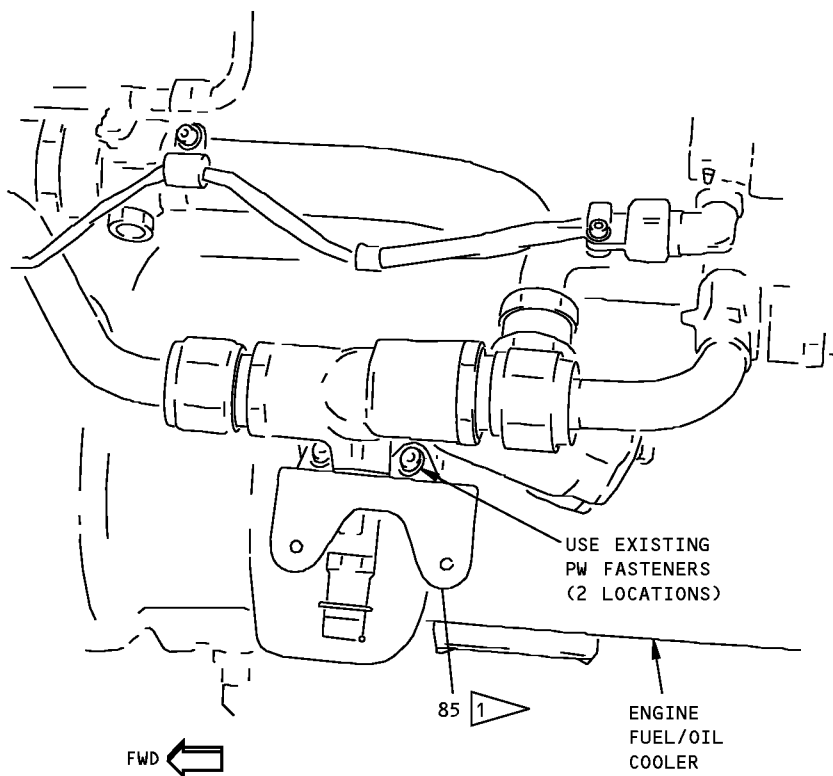
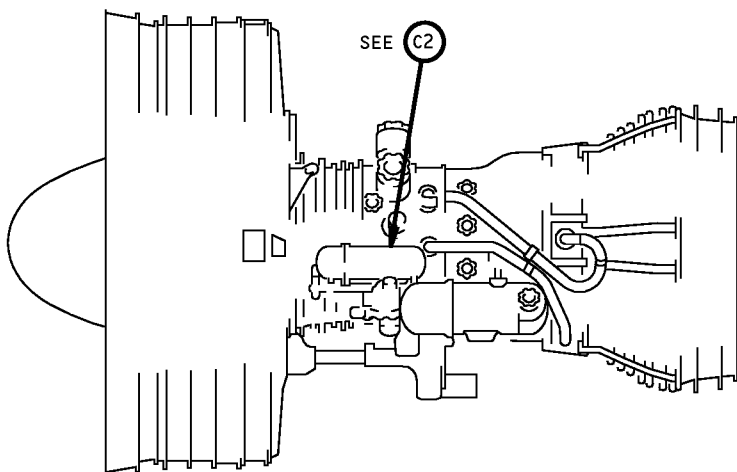
**71-00-02**

P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



1 USE WITH FIG. 9-3,  
ALL EXCEPT PHASE 3 ENGINES

**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 5)**



## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 5)</b>  ATTACH BRACKET (85) TO ENGINE FUEL OIL COOLER USING EXISTING PW FASTENERS. USE WET primer, C00259 (C1) ON FAYING SURFACES BETWEEN BRACKET (85) AND FUEL OIL COOLER. TIGHTEN PW FASTENERS TO 85-95 LB-IN.				
85	332T4922-317	. BRKT (1 REQD) (ALL EXCEPT PHASE 3 ENGINES)			LTD	-
C1	C00259	. PRIMER			CON	AR

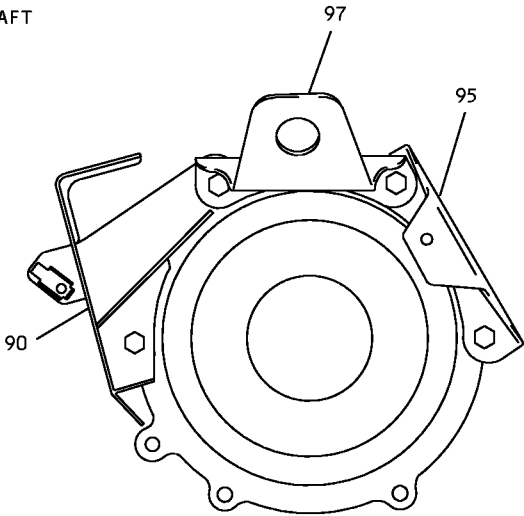
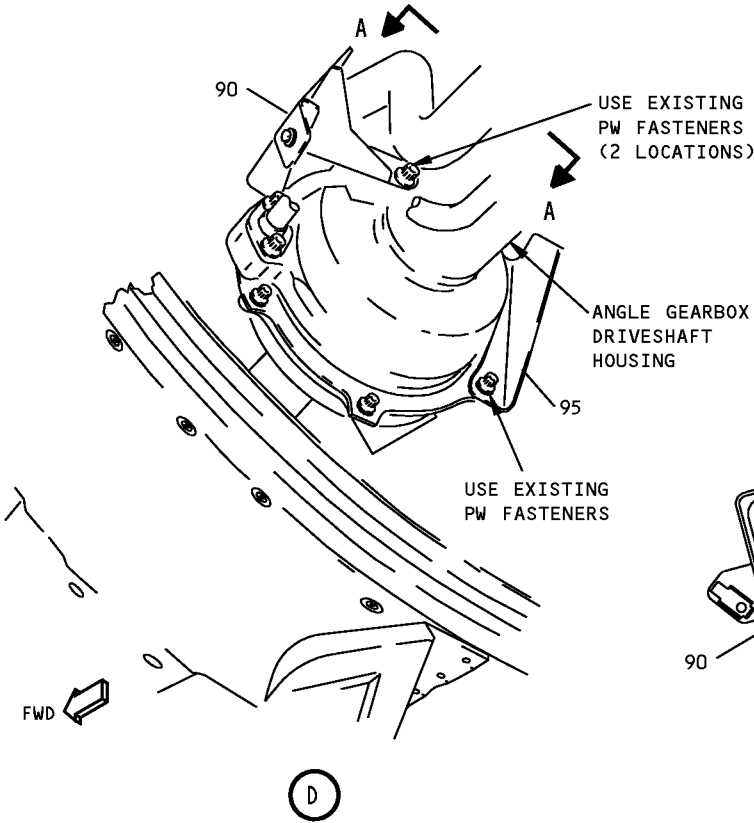
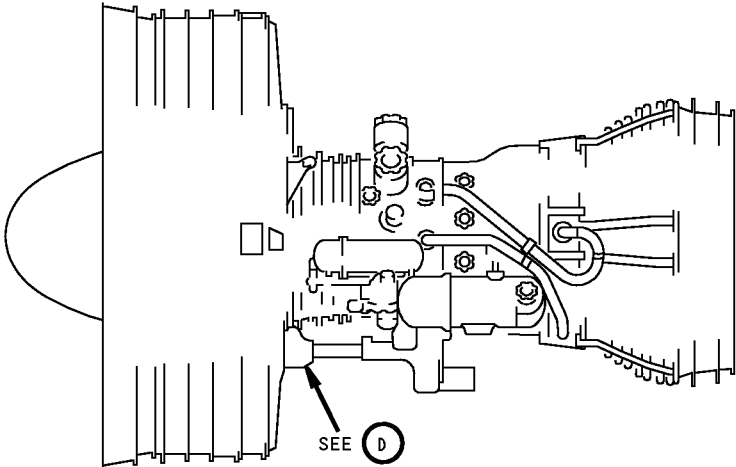
**71-00-02**

P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



ANGLE GEARBOX DRIVESHAFT HOUSING  
(VIEW IN THE FORWARD DIRECTION)  
A-A

**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 6)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 6)</b>  CLEAN MATING SURFACES BETWEEN BRACKET (90) AND HOUSING WITH solvent, B00148 (C2). ATTACH BRACKETS (90, 95, 97) TO AFT SIDE OF GEARBOX DRIVE SHAFT HOUSING USING EXISTING PW FASTENERS. DISCARD YELLOW SPACERS. USE WET primer, C00259 (C1) ON FAYING SURFACES BETWEEN BRACKET AND GEARBOX DRIVESHAFT HOUSING. TIGHTEN TO 85-95 LB-IN.				
90	332T4921-251	. BRACKET	AFT	AFT		1
90	332T4921-295	. BRKT (REPLACED BY 332T4921-251) <sup>[1]</sup>	AFT	AFT	LTD	-
90	332T4921-219	. BRKT (REPLACED BY 332T4921-295)	AFT	AFT	LTD	-
90	332T4921-201	. BRKT (REPLACED BY 332T4921-219)	AFT	AFT	LTD	-
95	332T4922-604	. BRACKET	AFT	AFT		1
95	332T4922-479	. BRKT (REPLACED BY 332T4922-604)	AFT	AFT	LTD	-
95	332T4922-407	. BRKT (REPLACED BY 332T4922-479)	AFT	AFT	LTD	-
97	332T4922-397	. BRACKET				1
C1	C00259	. PRIMER			CON	AR
C2	B00148	. SOLVENT			CON	AR
		*[1] REMOVE ALL FINISH FROM BRACKET FAYING SURFACES TO PROVIDE GOOD ELECTRICAL BOND.				

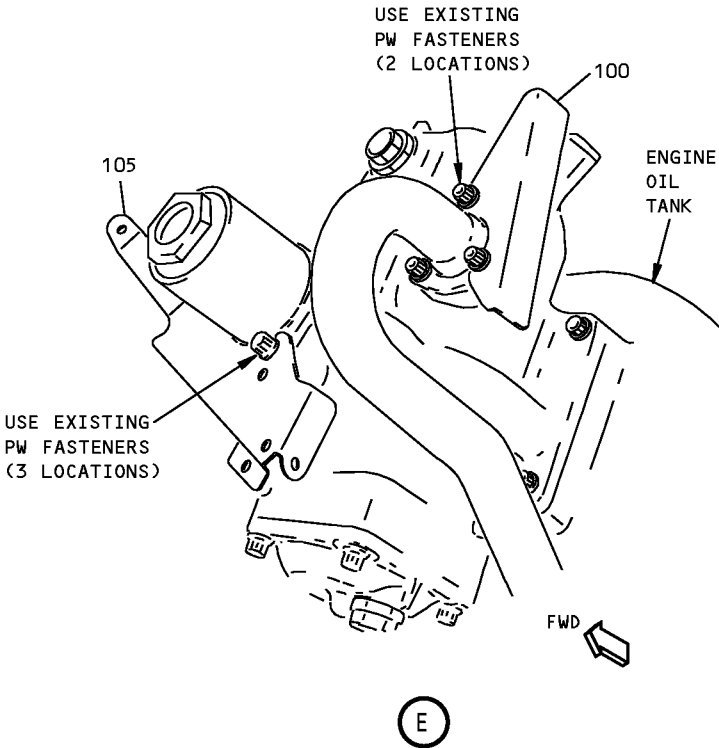
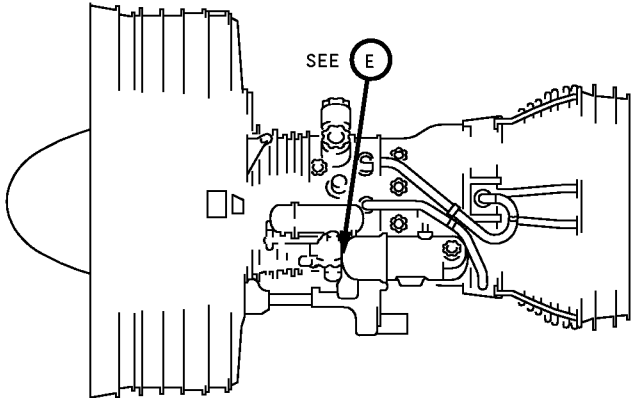
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P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 7)**

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<p><b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b>  <b>(FIGURE 3-3, SHEET 7)</b></p> <p>ATTACH BRACKET (100) TO ENGINE FLANGE AT FORWARD SIDE OF ENGINE OIL TANK USING EXISTING PW FASTENERS. USE WET primer, C00259 (C1) ON FAYING SURFACES BETWEEN BRACKET (100) AND FLANGE. TIGHTEN TO 85-95 LB-IN.</p>				
100 C1	332T4922-402 C00259	<p>. BRACKET                  . PRIMER</p> <p><u>ENGINES WITH BOEING SUPPLIED BRKT;</u></p>		AFT	CON	1 AR
105 105 C1	332T4925-4 332T4922-400 C00259	<p>ATTACH BRACKET (105) TO FORWARD SIDE OF ENGINE OIL TANK USING EXISTING PW FASTENERS. USE WET primer, C00259 (C1) ON FAYING SURFACES BETWEEN BRACKET AND MOUNTING SURFACES. TIGHTEN PW FASTENERS TO 125-140 LB-IN.</p> <p>. BRACKET (1 REQD)<sup>[1]</sup>                  . BRKT (REPLACED BY 332T4925-4)                  . PRIMER</p> <p>*[1] REPLD BY PW BRKT ON LATER ENGINES</p>			LTD LTD CON	- - AR

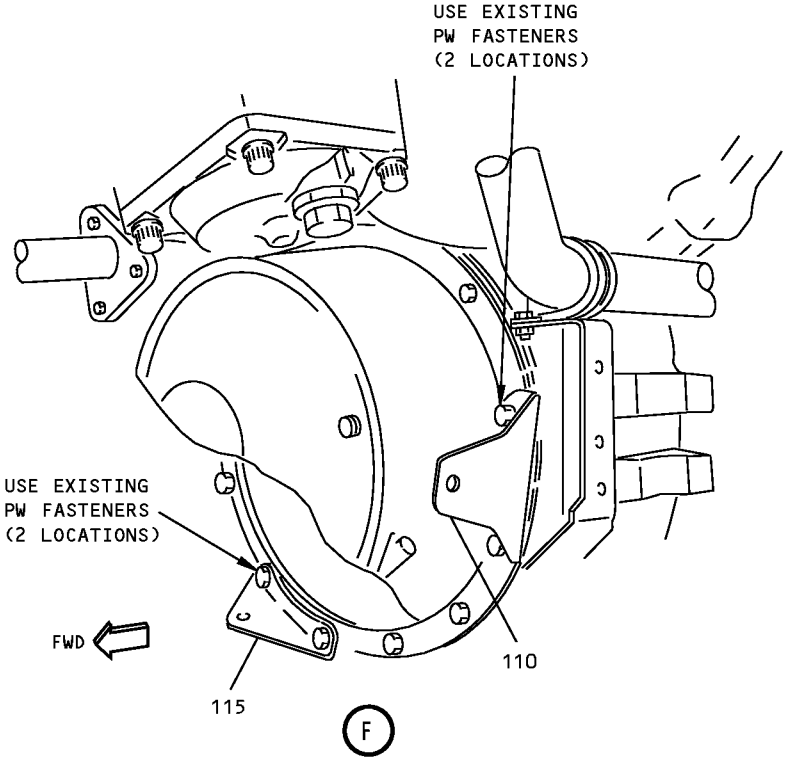
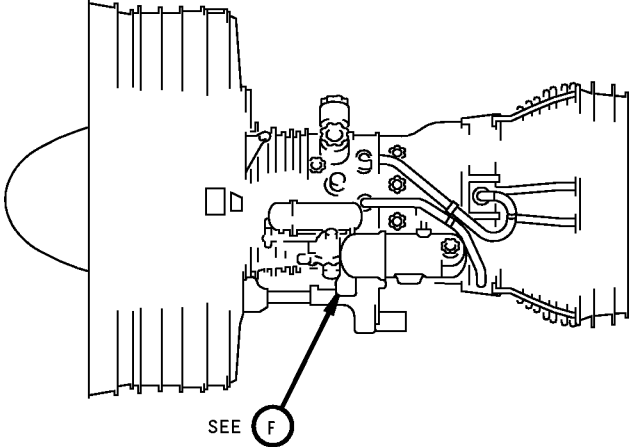
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P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 8)**

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P/P BUILDUP FIGURE 3-3  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 8)</b>  ATTACH BRACKETS (110 THRU 115) TO MAIN GEARBOX USING EXISTING PW FASTENERS. USE WET primer, C00259 (C1) ON FAYING SURFACES BETWEEN BRACKETS AND MOUNTING SURFACES. TIGHTEN PW FASTENERS TO 125-140 LB-IN.				
110	332T4922-144	. BRACKET				1
115	332T4922-499	. BRACKET				1
115	332T4922-280	. BRACKET			OPT	-
C1	C00259	. PRIMER			CON	AR

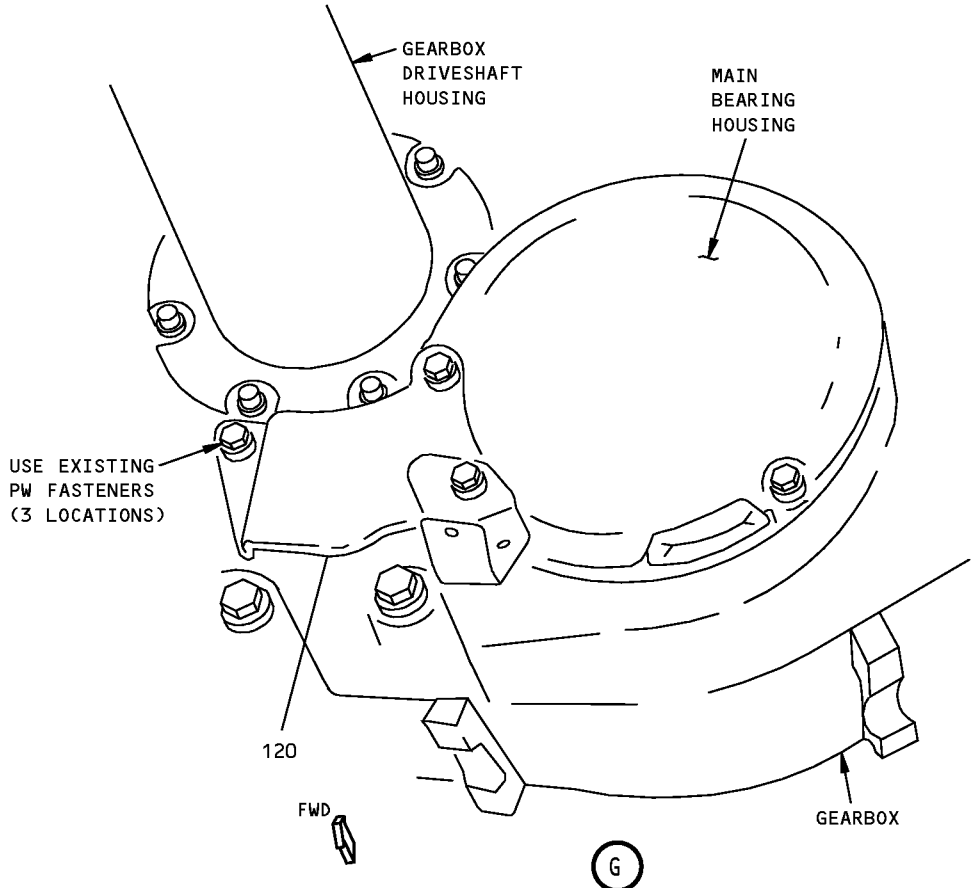
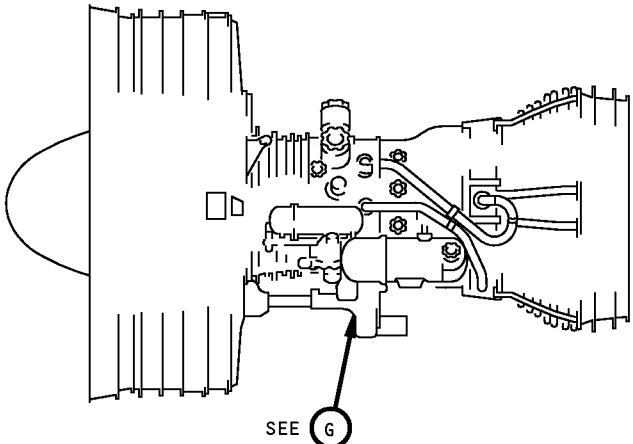
**71-00-02**

P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case**  
**Figure 3-3 (Sheet 9)**

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 9)</b>  CLEAN MATING SURFACES BETWEEN BRACKET (120) AND MAIN BEARING HOUSING WITH A WIRE BONDING BRUSH THEN FINAL CLEAN WITH solvent, B00148 (C2). ATTACH BRACKET (120) TO MAIN BEARING HOUSING USING EXISTING PW FASTENERS. TIGHTEN TWO PW FASTENERS TO 225-250 LB-IN. TIGHTEN OTHER PW FASTENER TO 125-140 LB-IN.				
120	332T4921-290	. BRACKET				1
120	332T4921-256	. BRKT (REPLACED BY 332T4921-290)			LTD	-
120	332T4921-235	. BRKT (REPLACED BY 332T4921-256)			LTD	-
120	332T4921-157	. BRKT (REPLACED BY 332T4921-235)			LTD	-
C2	B00148	. SOLVENT			CON	AR

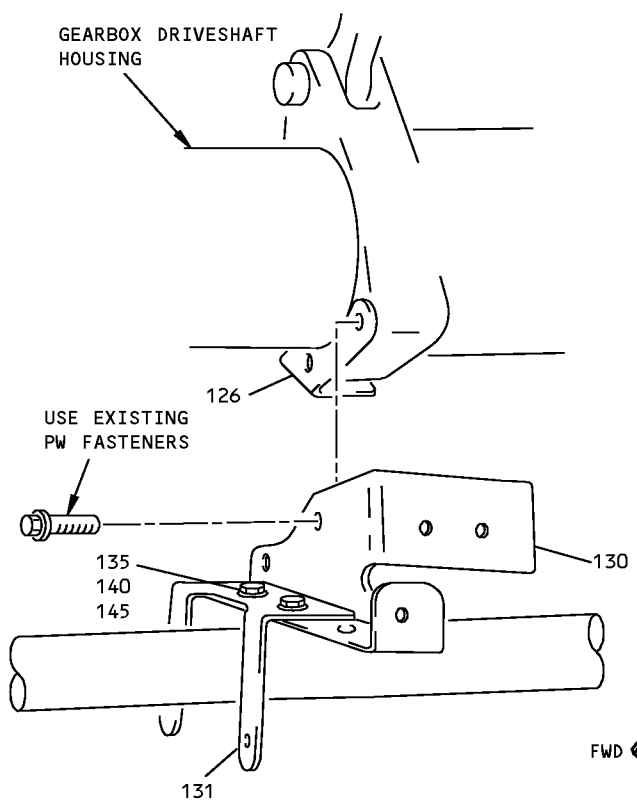
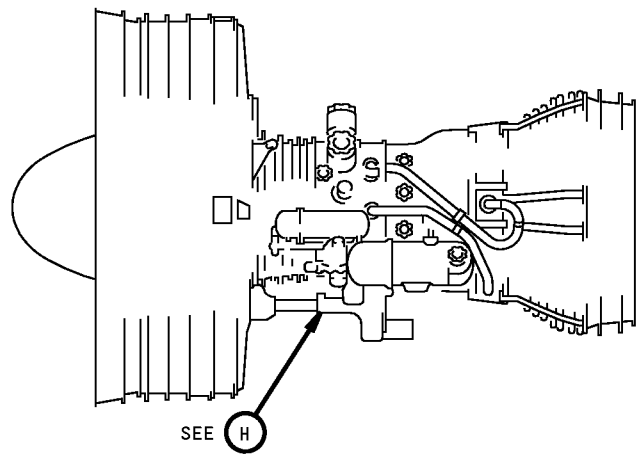
**71-00-02**

P/P BUILDUP FIGURE 3-3

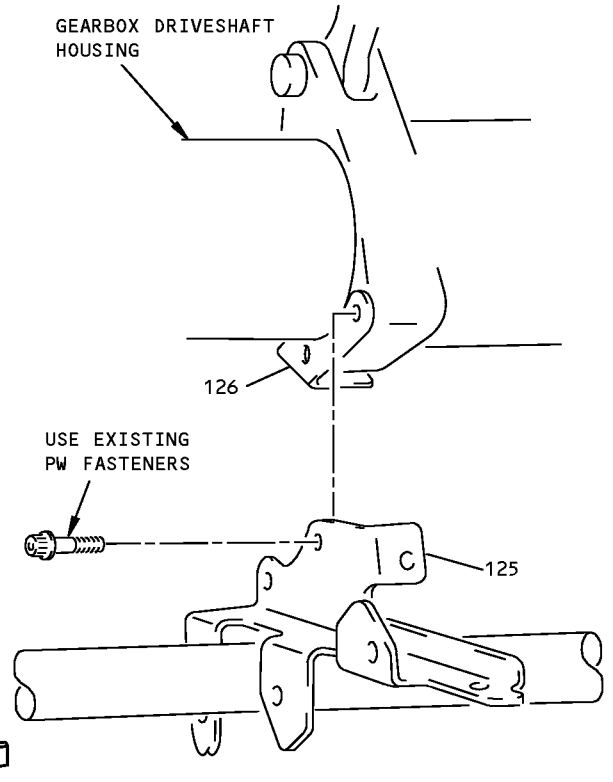
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**POWERPLANT BUILDUP MANUAL**



CONFIGURATION A  
H



CONFIGURATION B  
H

**Bracket Installation - Left Side Core Case**  
**Figure 3-3 (Sheet 10)**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 10)</b>  <u>CONFIGURATION B;</u> <u>(PRE-SB 747-71-2303/767-71-0104)</u>  POSITION BRACKETS (125, 126) OVER PW BRACKET AND SECURE WITH EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN PW FASTENERS TO 85-95 LB-IN.				
125	332T4922-487	. BRACKET (1 REQD) <sup>[B]</sup>			LTD	-
126	332T4922-202	. BRACKET (1 REQD) <sup>[B]</sup>			LTD	-
		<u>CONFIGURATION A;</u>  POSITION BRACKETS (126, 130) OVER PW BRACKET AND SECURE WITH EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN PW FASTENERS TO 85-95 LB-IN. ATTACH BRACKET (131) TO BRACKET (130) USING FASTENERS (135 THRU 145).				
126	332T4922-202	. BRACKET (1 REQD) <sup>[A]</sup>			LTD	-
130	332T4922-281	. BRACKET (1 REQD) <sup>[A]</sup>			LTD	-
131	332T4922-277	. BRACKET (1 REQD) <sup>[A]</sup>			LTD	-
135	BACB30LM3U2	. BOLT (2 REQD) <sup>[A]</sup>			LTD	-
140	NAS1149C0332R	. WASHER (2 REQD) <sup>[A]</sup>			LTD	-
145	BACN10YR3C	. NUT (2 REQD) <sup>[A]</sup>			LTD	-

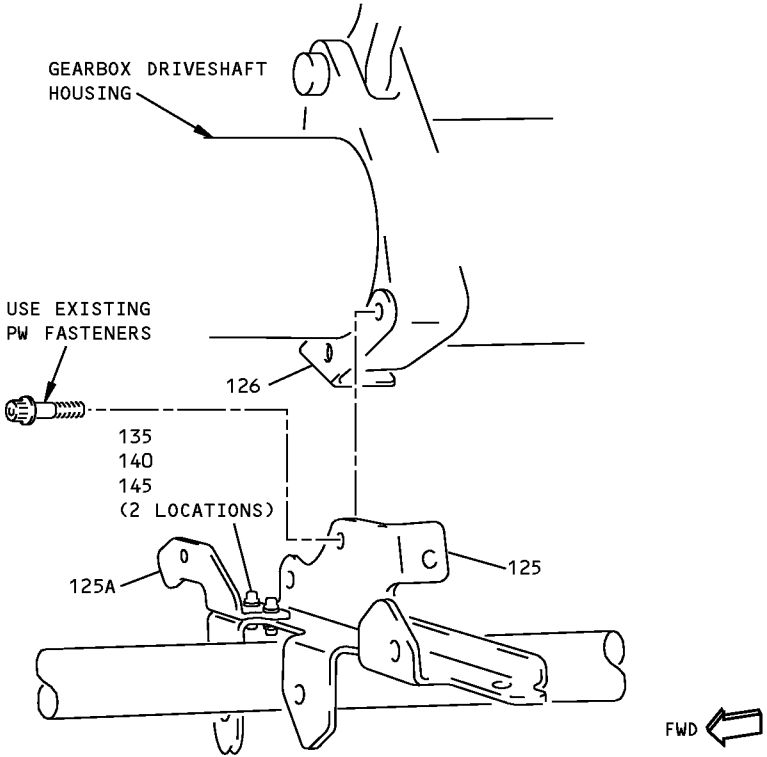
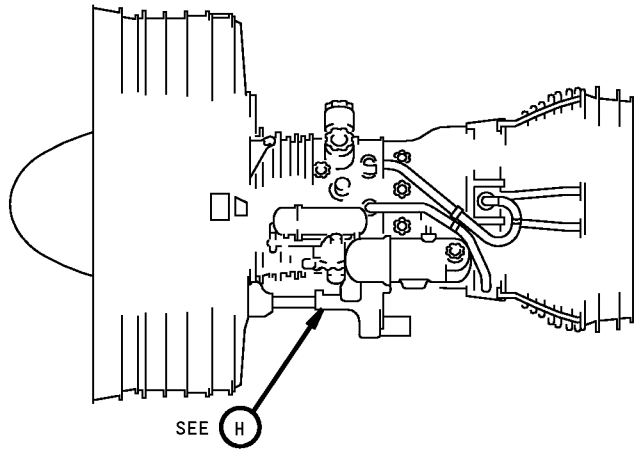
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P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL**



CONFIGURATION C

H

**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 11)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 11)</b>  <u>CONFIGURATION C</u> <u>(POST-SB 747-71-2303/767-71-0104)</u>  POSITION BRACKETS (125, 126) OVER PW BRACKET AND SECURE WITH EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN PW FASTENERS TO 85-95 LB-IN. ATTACH BRACKET (125A) TO BRACKET (125) USING FASTENERS (135 THRU 145).				
125	332T4922-694	. BRACKET				1
125	332T4922-678	. BRKT (REPLACED BY 332T4922-694)			LTD	-
125	332T4922-664	. BRKT (REPLACED BY 332T4922-678)			LTD	-
125A	332T4921-319	. BRACKET				1
125A	332T4922-663	. BRKT (REPLACED BY 332T4921-319)			LTD	-
126	332T4922-696	. BRACKET				1
126	332T4922-202	. BRKT (REPLACED BY 332T4922-696)			LTD	-
135	BACB30LM3U2	. BOLT				2
140	NAS1149C0363R	. WASHER				2
140	NAS1149C0316R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
140	NAS1149C0332R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
145	BACN10YR3C	. NUT				2

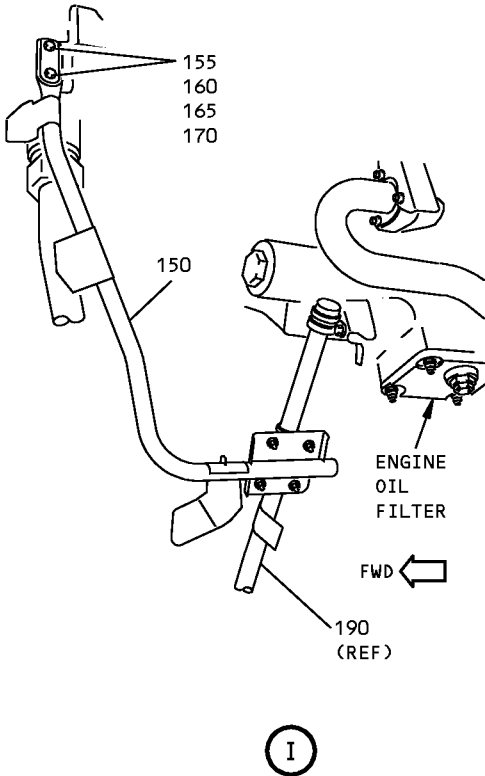
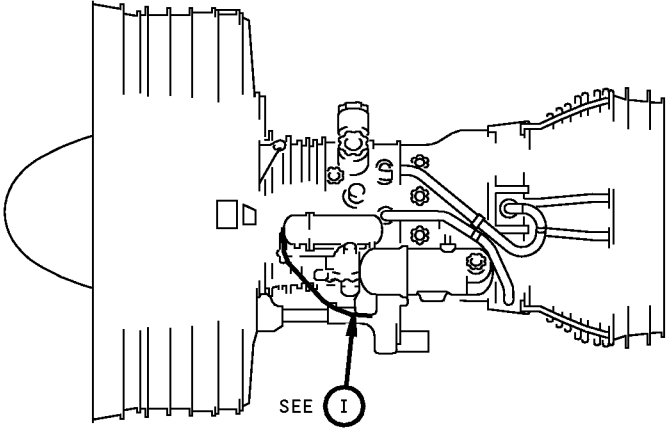
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P/P BUILDUP FIGURE 3-3

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Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 12)

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 12)</b>  ATTACH SUPPORT TUBE (150) TO PW BRACKETS USING FASTENERS (155 THRU 170).				
150	332T4921-303	. SUPPORT TUBE				1
155	BACB30LM3U2	. BOLT				2
160	BACW10BP3ACU	. WASHER (CSK TOWARDS BOLT HEAD)				2
165	NAS1149C0363R	. WASHER				2
165	NAS1149C0316R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
165	NAS1149C0332R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
170	BACN10YR3C	. NUT				2

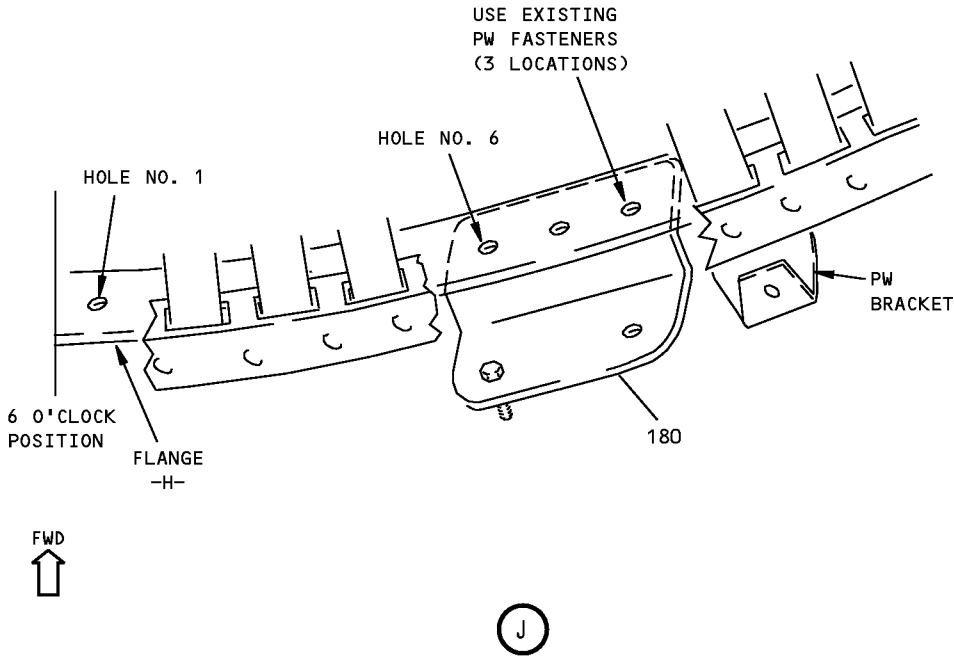
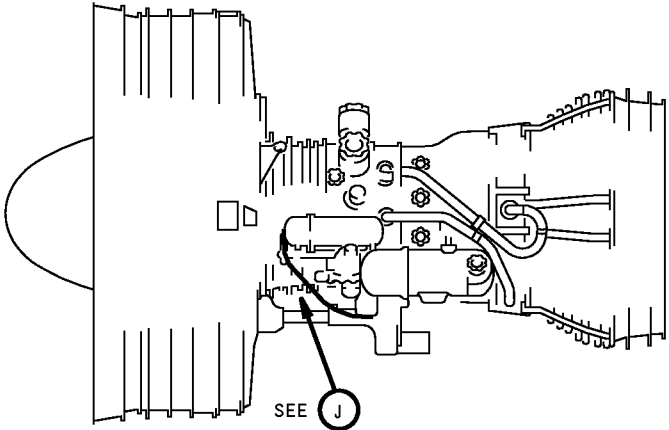
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P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 13)**

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P/P BUILDUP FIGURE 3-3  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<p><b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b>  <b>(FIGURE 3-3, SHEET 13)</b></p> <p>CLEAN MATING SURFACES BETWEEN BRACKET (180) AND ENGINE FLANGE H WITH solvent, B00148 (C2). ATTACH BRACKET (180) TO ENGINE FLANGE H AT 6:00 POSITION USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN FASTENERS 180-200 LB-IN. CHECK BONDING RESISTANCE (MAX 0.005 OHM) BETWEEN BRACKET (180) AND BASIC STRUCTURE. APPLY FILLET SEAL AROUND BRACKET (180) USING adhesive, A00027 (C3) OR sealant, A00160 (C4).</p>				
180	332T4922-722	. BRACKET	AFT	AFT		1
180	332T4922-699	. BRACKET (REPLACED BY 332T4922-722)	AFT	AFT	LTD	-
180	332T4922-335	. BRACKET (OPTIONAL TO 332T4922-699)	AFT	AFT	OPT	-
C2	B00148	. SOLVENT			CON	AR
C3	A00027	. ADHESIVE			CON	AR
C4	A00160	. SEALANT			CON	AR

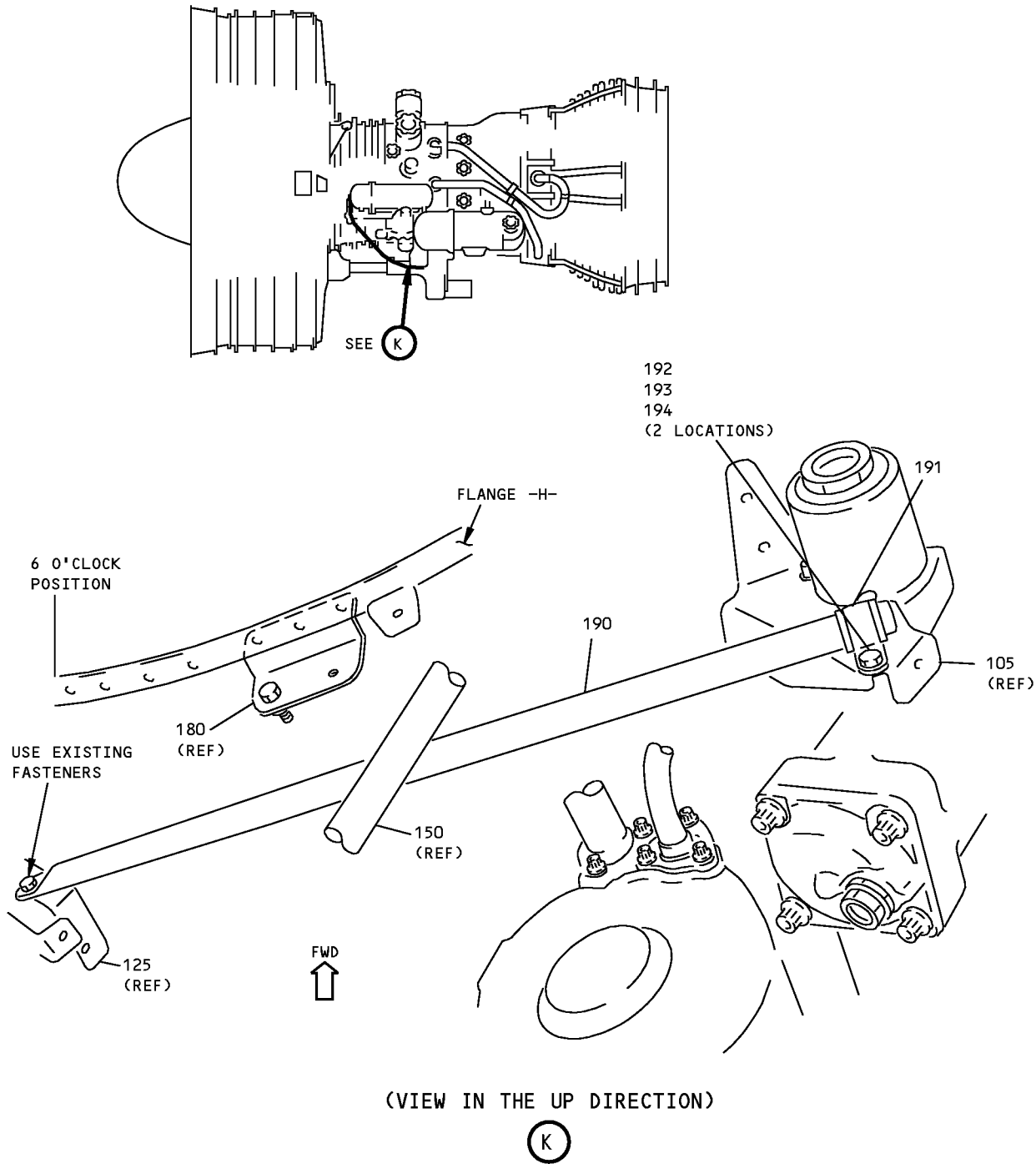
**71-00-02**

P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case**  
**Figure 3-3 (Sheet 14)**

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P/P BUILDUP FIGURE 3-3  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 3-3, SHEET 14)</b>  POSITION SUPPORT TUBE (190) BETWEEN BRACKETS AND SECURE WITH FASTENERS (191 THRU 194) AND EXISTING FASTENER.				
190	332T4921-294	. SUPPORT TUBE				1
190	332T4921-244	. TUBE (REPLACED BY 332T4921-294)			LTD	-
190	332T4921-186	. TUBE (REPLACED BY 332T4921-294)			LTD	-
190	332T4921-143	. TUBE (REPLACED BY 332T4921-294)			LTD	-
191	BACC10HT12	. CLAMP				1
192	BACB30LM3U3	. BOLT				2
193	NAS1149C0332R	. WASHER				2
194	BACN10YR3C	. NUT				2

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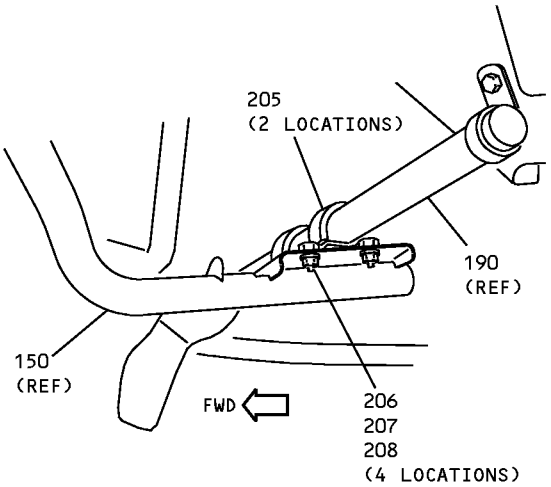
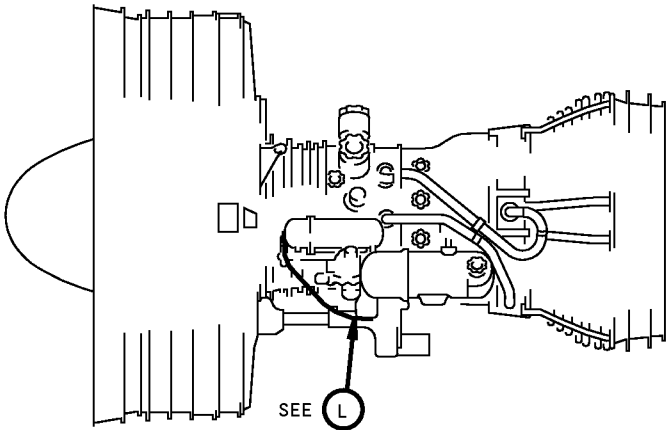
P/P BUILDUP FIGURE 3-3

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Figure 3-3 (Sheet 15)

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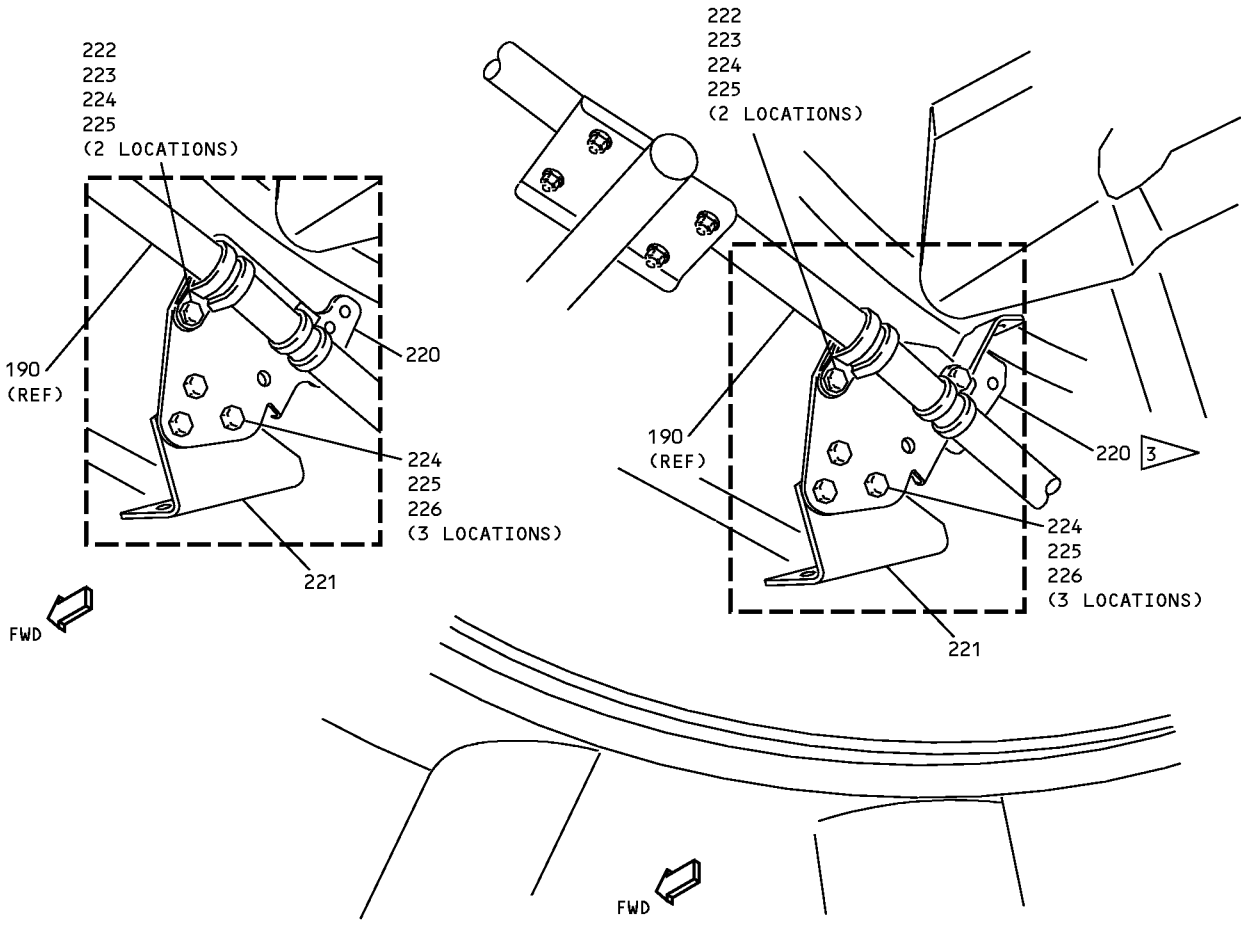
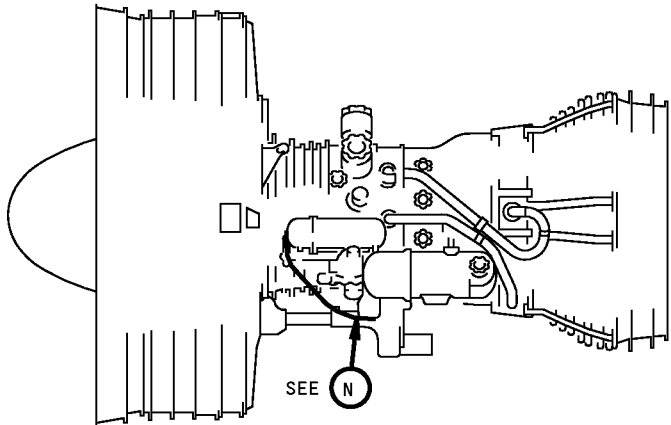
ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 15)</b> ATTACH SUPPORT TUBES (150, 190) WITH FASTENERS (205 THRU 208).				
205	TA027016-12	. CLAMP				2
206	BACB30LM3U3	. BOLT				4
207	NAS1149C0363R	. WASHER				4
207	NAS1149C0316R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
207	NAS1149C0332R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
208	BACN10YR3C	. NUT				4

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P/P BUILDUP FIGURE 3-3

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N

3 USE WITH FIG. 4-4, CONFIG D

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P/P BUILDUP FIGURE 3-3

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ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 16)</b>  ATTACH BRACKETS (220, 221) TO SUPPORT TUBE (190) USING FASTENERS (222 THRU 226).				
220	332T4922-697	. BRACKET*[1]				1
220	332T4922-681	. BRACKET (REPLACED BY 332T4922-697)			LTD	-
220	332T4922-640	. BRKT (REPLACED BY 332T4922-681)			LTD	-
221	332T4922-641	. BRACKET				1
222	BACC10DW12S	. CLAMP				2
223	BACB30LM3U2	. BOLT				2
224	NAS1149C0363R	. WASHER				5
224	NAS1149C0316R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
224	NAS1149C0332R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
225	BACN10YR3C	. NUT				5
226	BACB30LM3U3	. BOLT				3
		*[1] USE WITH OVERBOARD STRUT DRAIN INSTALLATION/Figure 4-4, CONFIG D (POST-SB 747-71-2303/767-71-0104)				

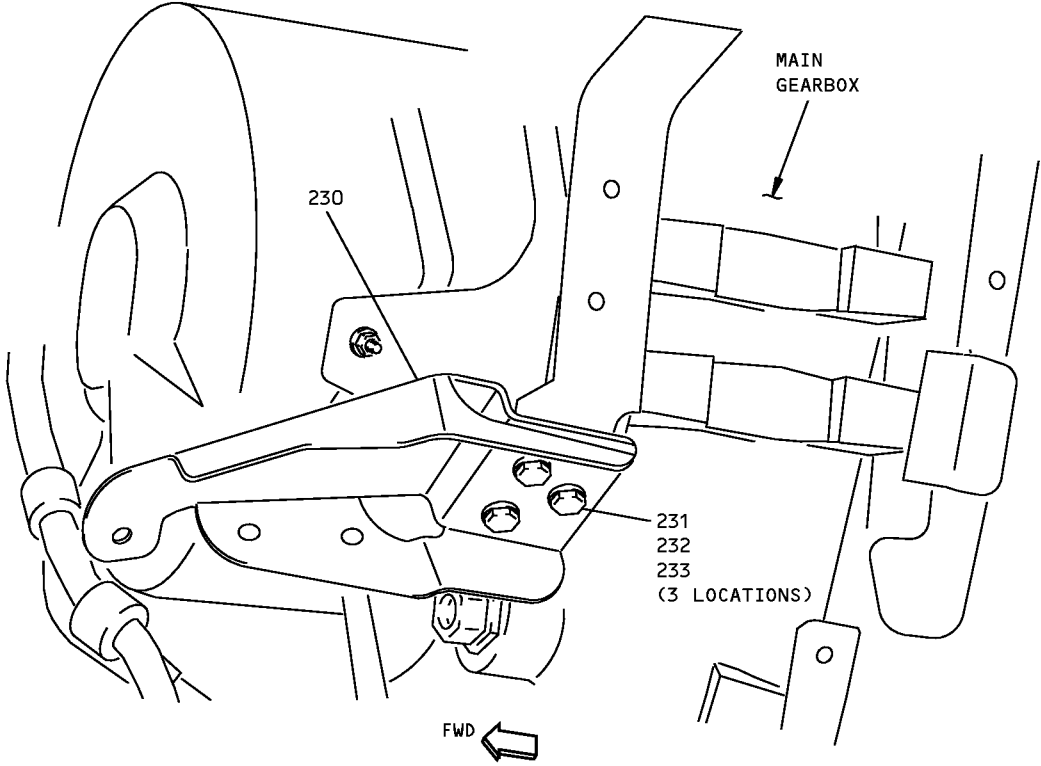
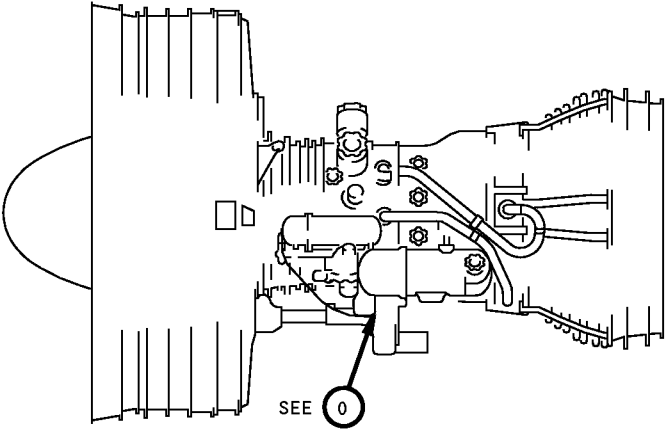
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P/P BUILDUP FIGURE 3-3

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**Figure 3-3 (Sheet 17)**

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ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 17)</b>  ATTACH BRACKET ASSY (230) TO MAIN GEARBOX WITH FASTENERS (231 THRU 233). . BRACKET ASSY . BOLT . WASHER . WASHER (OPTIONAL TO NAS1149C0363R) . WASHER (OPTIONAL TO NAS1149C0363R) . NUT				
230	332T4921-271					1
231	BACB30LM3U3					3
232	NAS1149C0363R					3
232	NAS1149C0316R				OPT	-
232	NAS1149C0332R				OPT	-
233	BACN10YR3C					3

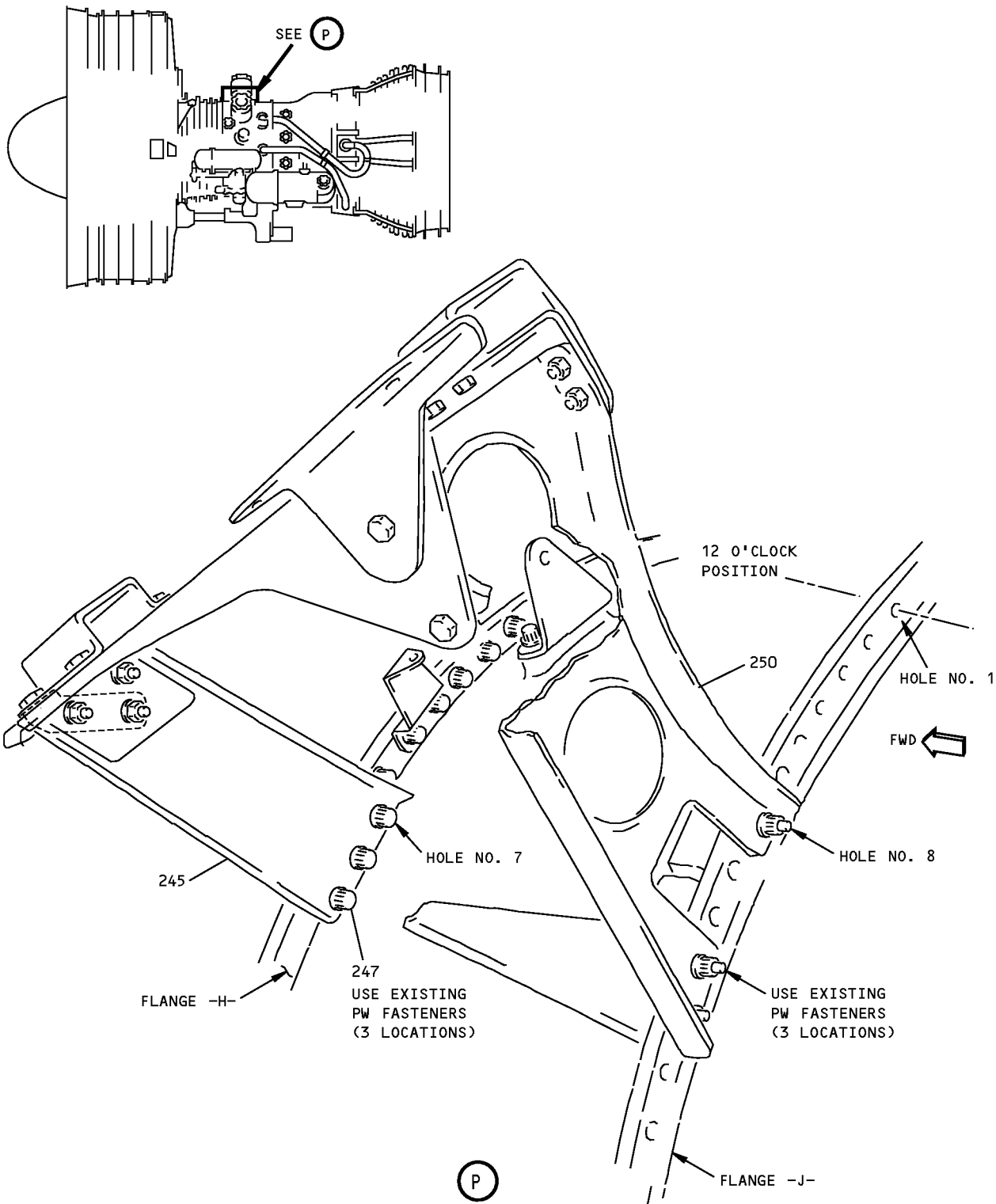
**71-00-02**

P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 18)**

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P/P BUILDUP FIGURE 3-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 18)</b> <u>ENGINES WITH BOEING BRACKET;</u>  ATTACH BRACKET (245) WITH BUSHING (247) TO ENGINE FLANGE H AT 11:00 POSITION USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN PW FASTENERS TO 180-200 LB-IN.  . BRACKET (1 REQD) <sup>*[1]</sup>  . BUSHING (3 REQD) (INSTALL BETWEEN FLANGE & BRACKET)  ATTACH BRACKET (250) TO ENGINE FLANGE J AT 11:00 POSITION USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN PW FASTENERS TO 85-95 LB-IN.  . BRACKET  . BRKT (REPLACED BY 332T4922-616)  . BRKT (REPLACED BY 332T4922-601)  *[1] REPLD BY PW BRKT ON LATER ENGINES				
245	332T4922-351		AFT		LTD	-
247	BACB28AK06-078				LTD	-
250	332T4922-616		AFT	AFT		1
250	332T4922-601		AFT	AFT	LTD	-
250	332T4922-458		AFT	AFT	LTD	-

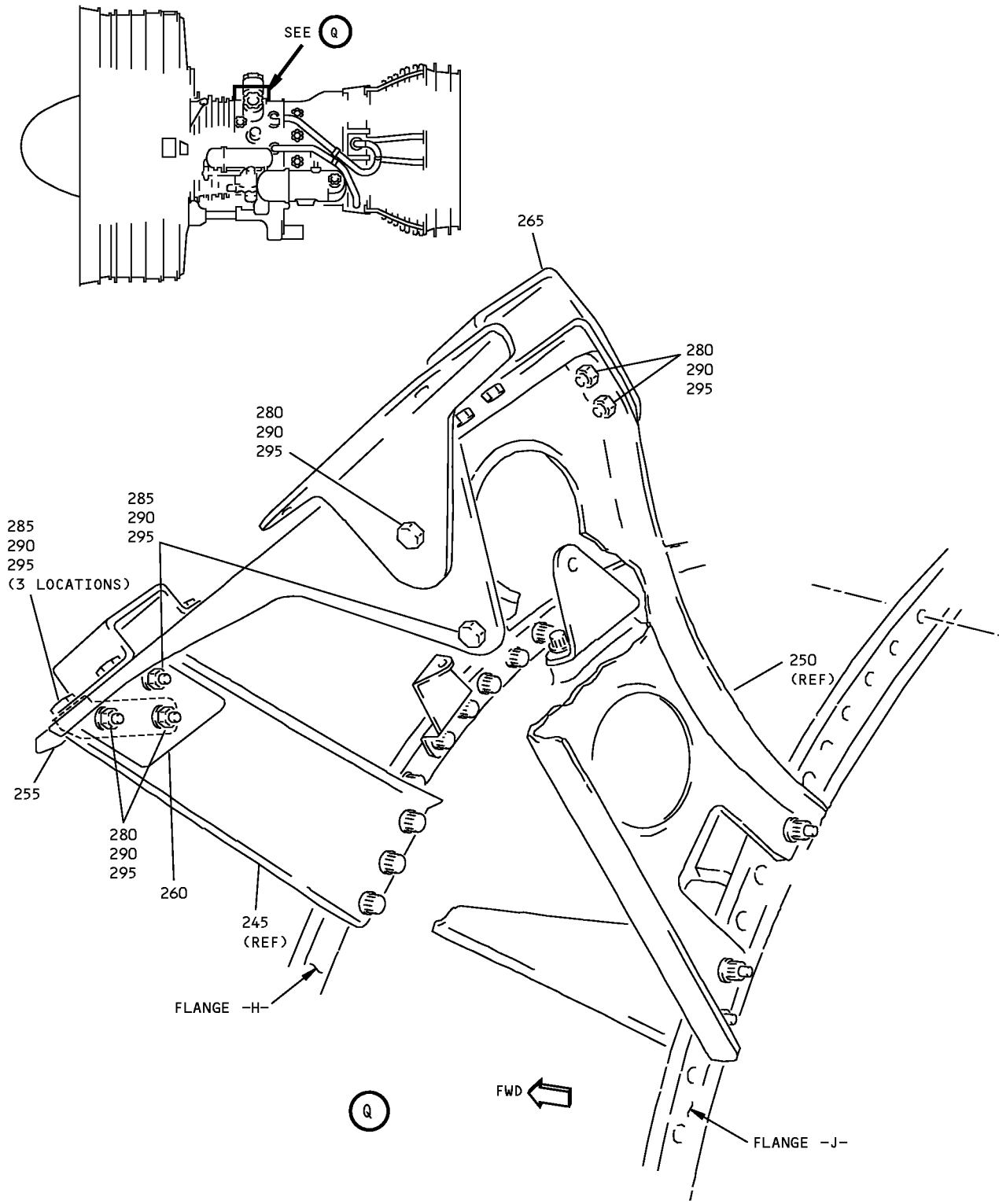
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P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case**  
**Figure 3-3 (Sheet 19)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 3-3, SHEET 19)</b>  SECURE BRACKETS (255 THRU 265) BETWEEN BRACKETS (245, 250) USING FASTENERS (280 THRU 295).				
255	332T4922-660	. BRACKET	FWD	FWD		1
255	332T4922-658	. BRKT (REPLACED BY 332T4922-660)	FWD	FWD	LTD	-
255	332T4922-642	. BRKT (REPLACED BY 332T4922-658)	FWD	FWD	LTD	-
255	332T4922-639	. BRKT (REPLACED BY 332T4922-642)	FWD	FWD	LTD	-
255	332T4922-495	. BRKT (REPLACED BY 332T4922-639)	FWD	FWD	LTD	-
255	332T4922-405	. BRKT (REPLACED BY 332T4922-495)	FWD	FWD	LTD	-
260	332T4922-676	. BRACKET				1
260	332T4922-146	. BRKT (REPLACED BY 332T4922-676)			LTD	-
265	332T4922-674	. BRACKET				1
265	332T4922-668	. BRKT (REPLACED BY 332T4922-674)			LTD	-
265	332T4922-621	. BRKT (REPLACED BY 332T4922-668)			LTD	-
265	332T4922-496	. BRKT (REPLACED BY 332T4922-621)			LTD	-
265	332T4922-390	. BRKT (REPLACED BY 332T4922-496)			LTD	-
280	BACB30LM3U3	. BOLT				5
285	BACB30LM3U2	. BOLT				5
290	NAS1149C0332R	. WASHER				13
295	BACN10YR3C	. NUT				13

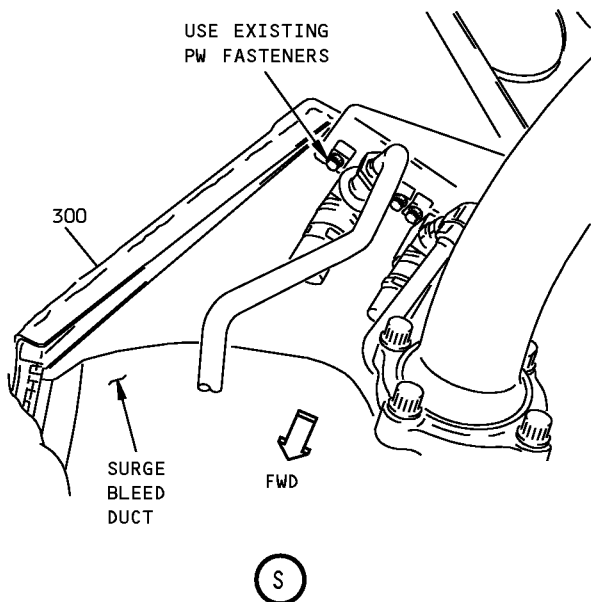
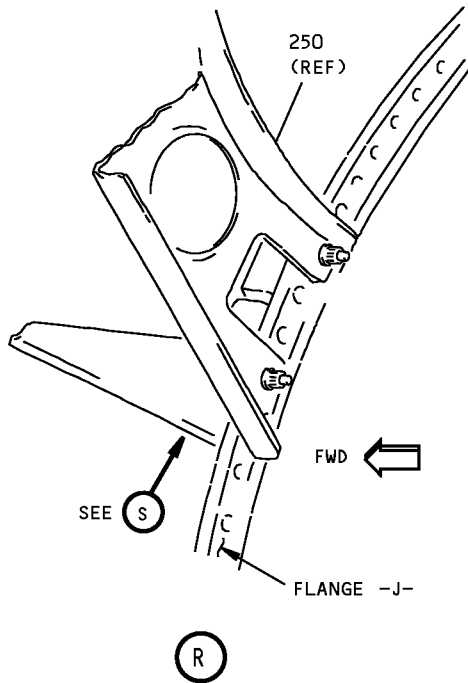
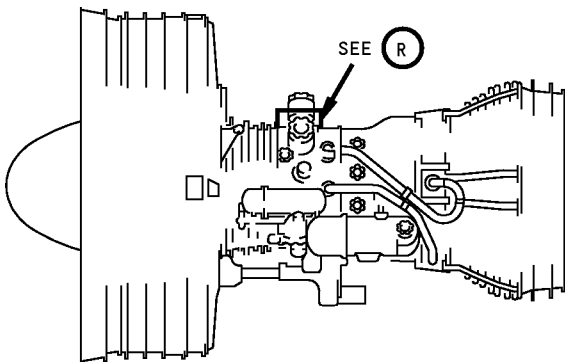
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P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 20)**

POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 20)</b>  POSITION BRACKET (300) BETWEEN ENGINE BRACKET AND SURGE BLEED DUCT USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 36-40 LB-IN.				
300	332T4921-316	. BRACKET				1
300	332T4921-241	. BRACKET (REPLACED BY 332T4921-316)			LTD	-
300	332T4921-223	. BRACKET (OPTIONAL TO 332T4921-241)			OPT	-
300	332T4921-167	. BRACKET (REPLACED BY 332T4921-241)			LTD	-

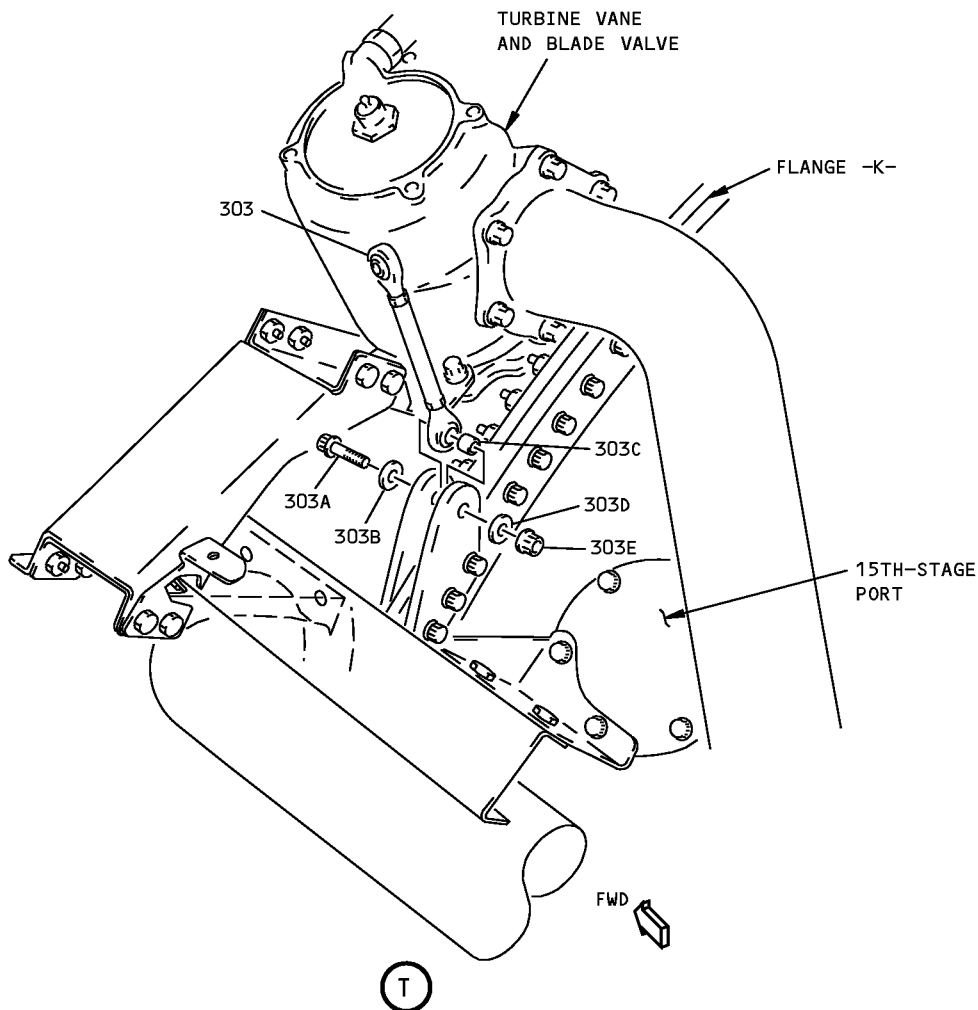
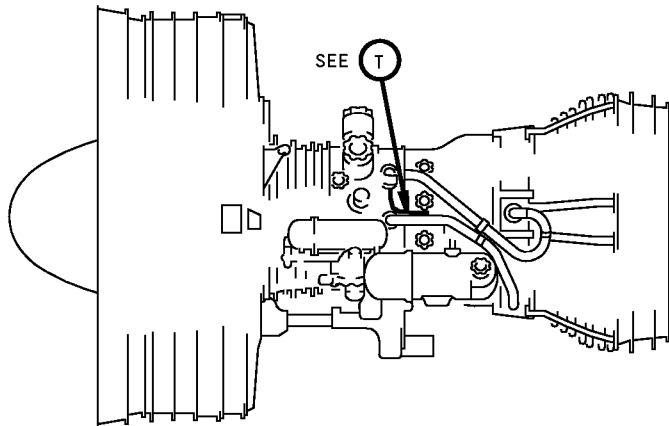
**71-00-02**

P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



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**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 21)**

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P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<p><b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b>  <b>(FIGURE 3-3, SHEET 21)</b></p> <p>ADJUST LINK ASSY (303) TO CENTER-TO-CENTER DIMENSION OF 7.05 INCHES, AND PUT ROD ENDS 90° TO EACH OTHER.</p> <p>ATTACH LINK (303) TO ENGINE FLANGE AT 9:30 POSITION USING ITEMS (303A THRU 303E).</p>				
303	312T2359-24	. LINK ASSY				1
303A	BACB30PN6-18	. BOLT				1
303B	BACW10BP6ACU	. WASHER (CSK TOWARDS BOLT HEAD)				1
303C	BACB28AK06-037	. BUSHING				1
303D	NAS1149C0663R	. WASHER				1
303E	BACN11Z6C	. NUT				1
303E	BACN11Z6CK	. NUT (OPTIONAL TO BACN11Z6C)			OPT	-

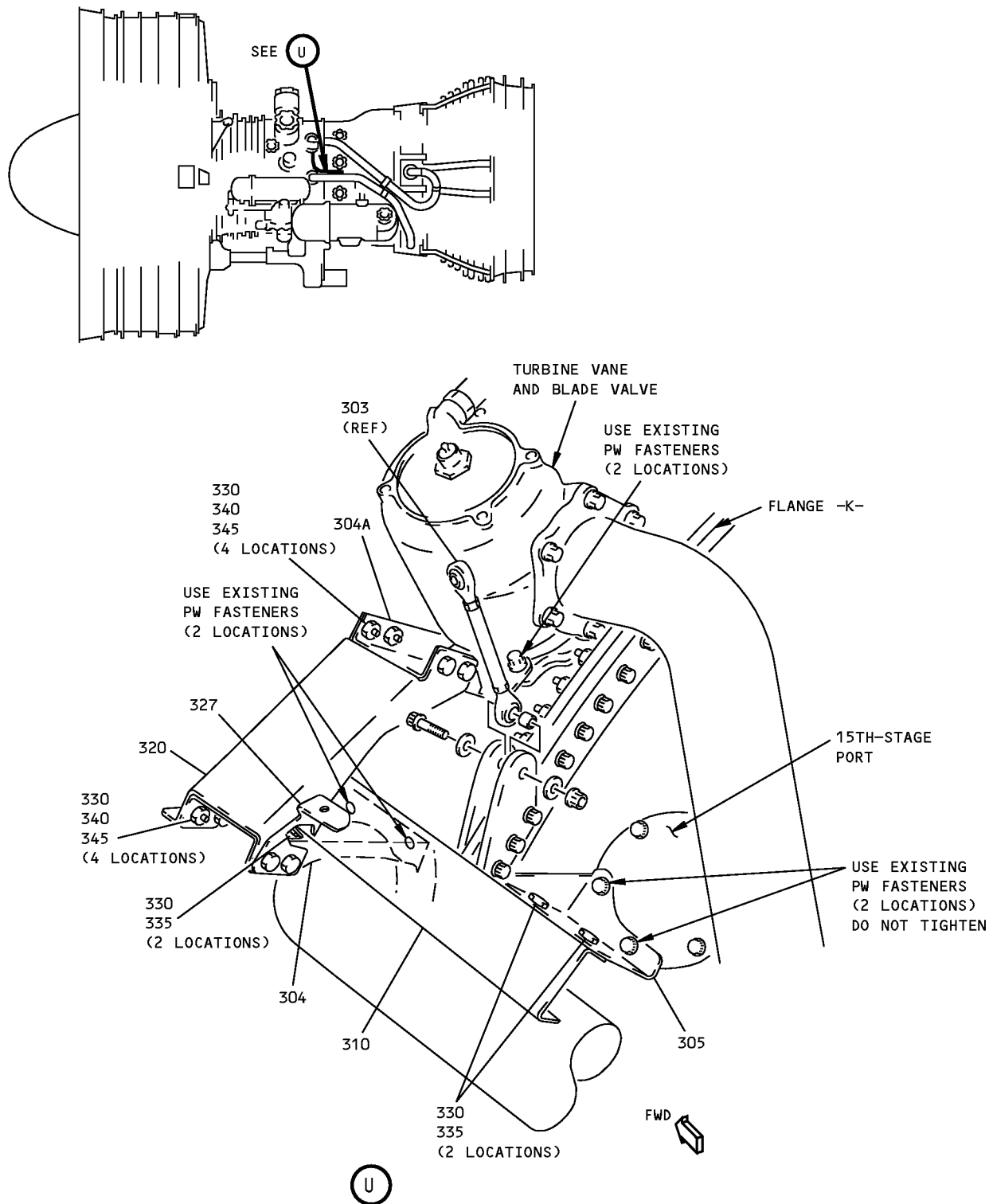
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P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL



Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 22)

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P/P BUILDUP FIGURE 3-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 22)</b>  <u>ENGINES WITH BOEING BRACKETS:</u>  ATTACH BRACKETS (304 THRU 304A) ON ENGINE AND SECURE USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN PW FASTENERS TO 85-95 LB-IN. safety cable kit, G50375 (C5) PW BOLTS HOLDING BRACKET (304) TO ENGINE.  . BRACKET (1 REQD) <sup>*[1]</sup> . BRACKET (REPLACED BY 332T4921-246) . BRACKET (1 REQD) <sup>*[1]</sup> . SAFETY CABLE KIT  ATTACH BRACKETS (305 THRU 327) ON ENGINE AND SECURE USING FASTENERS (330 THRU 345) AND EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN PW FASTENERS TO 85-95 LB-IN.  . BRACKET . BRACKET (REPLACED BY 332T4921-309) . BRACKET (REPLACED BY 332T4921-300) . BRACKET (REPLACED BY 332T4921-248) . BRACKET (REPLACED BY 332T4921-45) . BRACKET . BRACKET (REPLACED BY 332T4925-24) . BRACKET . BRACKET . BRACKET . BRACKET . BOLT . WASHER (CSK TOWARDS BOLT HEAD) . WASHER . NUT  *[1] REPLD BY PW BRKT ON LATER ENGINES				
304	332T4921-246				LTD	-
304	332T4921-48				LTD	-
304A	332T4921-94				LTD	-
C5	G50375				CON	AR
305	332T4921-309					1
305	332T4921-300				LTD	-
305	332T4921-248				LTD	-
305	332T4921-45				LTD	-
310	332T4925-24					1
310	332T4922-466				LTD	-
320	332T4922-410					1
320	332T4922-256				OPT	-
327	332T4922-399					1
330	BACB30LM3U2					12
335	BACW10BP3ACU					4
340	NAS1149C0332R					8
345	BACN10YR3C					12

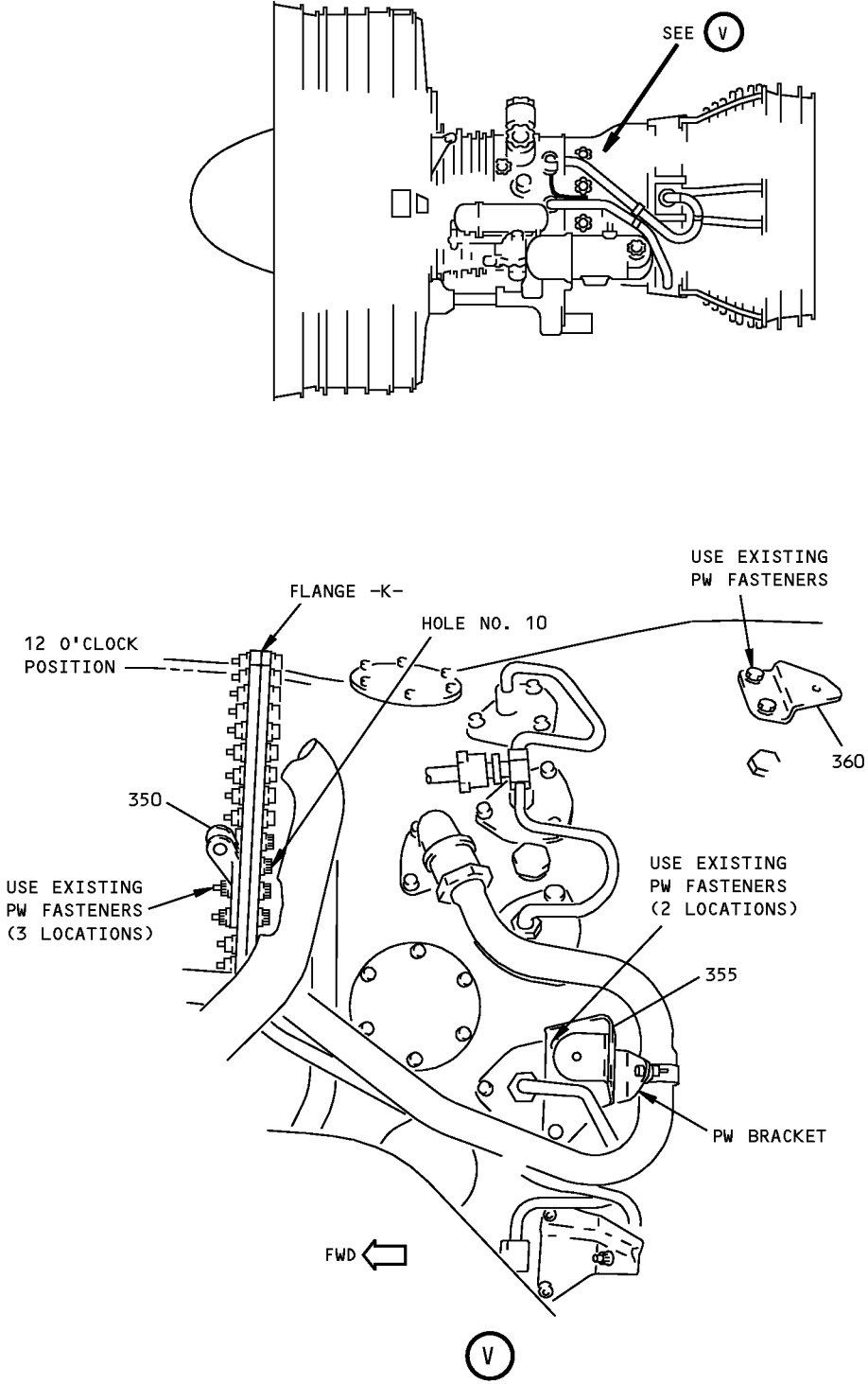
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P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case**  
**Figure 3-3 (Sheet 23)**

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P/P BUILDUP FIGURE 3-3

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## POWERPLANT BUILDUP MANUAL

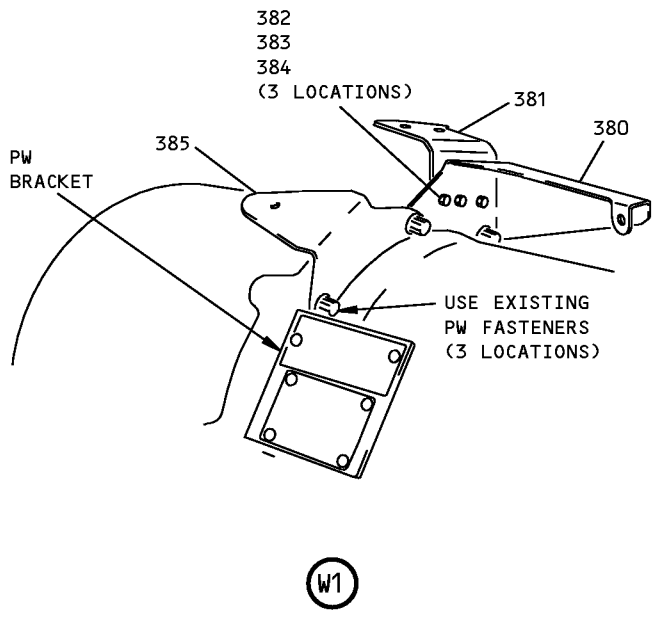
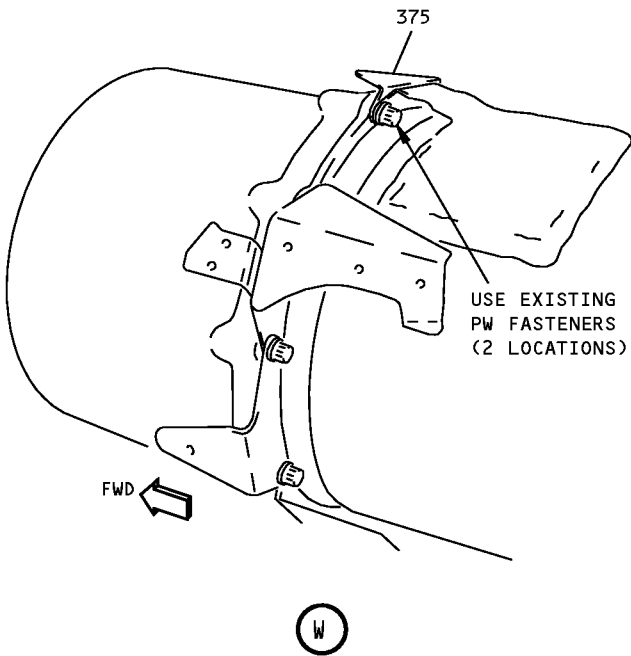
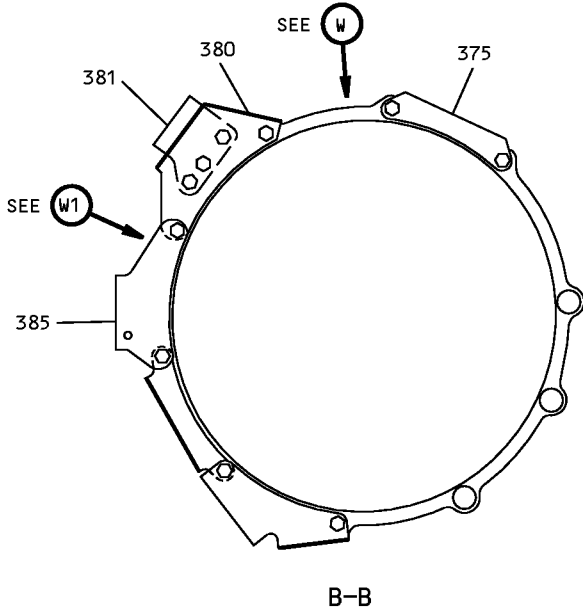
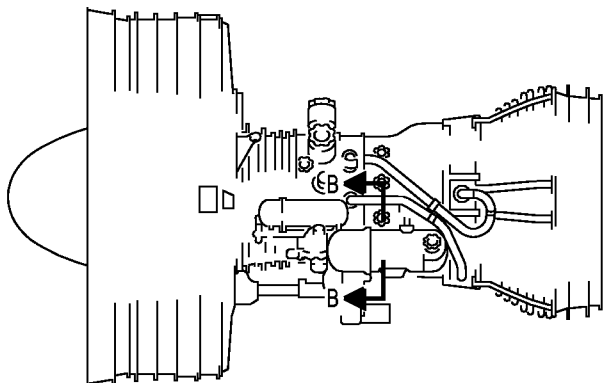
ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 3-3, SHEET 23)</b>				
350	332T4365-1	ATTACH BRACKET (350) TO ENGINE FLANGE K AT 11:00 POSITION USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 180-200 LB-IN. . BRACKET <u>ENGINES WITH BOEING BRACKET;</u>	FWD			1
355	332T4921-213	CLEAN MATING SURFACES BETWEEN BRACKET (355) AND ENGINE BOSS WITH solvent, B00148 (C2). ATTACH BRACKET (355) OVER PW BRACKET USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 85-95 LB-IN. CHECK BONDING RESISTANCE (MAX 0.005 OHM) BETWEEN BRACKET (355) AND BASIC STRUCTURE. APPLY FILLET SEAL AROUND BRACKET (355) USING adhesive, A00027 (C3) OR sealant, A00160 (C4). . BRACKET (1 REQD) <sup>*[1]</sup>			LTD	-
C2	B00148	. SOLVENT			CON	AR
C3	A00027	. ADHESIVE			CON	AR
C4	A00160	. SEALANT			CON	AR
360	332T4922-254	ATTACH BRACKET (360) TO ENGINE CASE USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. APPLY ANTI-SEIZE TO PW BOLT THREADS PRIOR TO INSTALLATION. TIGHTEN TO 90-110 LB-IN AND safety cable kit, G50375 (C5). . BRACKET		AFT		1
C5	G50375	. SAFETY CABLE KIT			CON	AR
		*[1] REPLD BY PW BRKT ON LATER ENGINES				

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P/P BUILDUP FIGURE 3-3

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Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 24)

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P/P BUILDUP FIGURE 3-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 24)</b>  ATTACH BRACKETS (375 THRU 385) TO ENGINE OIL TANK USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. USE WET primer, C00259 (C1) ON FAYING SURFACES BETWEEN BRACKET AND OIL TANK. TIGHTEN PW FASTENERS TO 180-200 LB-IN. ATTACH BRACKET (381) TO BRACKET (380) USING ITEMS (382 THRU 384).				
375	332T4922-92	. BRACKET		FWD		1
380	332T4921-197	. BRACKET		AFT		1
381	332T4925-44	. BRACKET		FWD		1
381	332T4925-25	. BRACKET (REPLACED BY 332T4925-44)		FWD	LTD	-
381	332T4922-401	. BRACKET (REPLACED BY 332T4925-25)		FWD	LTD	-
382	BACB30LM3U3	. BOLT				3
383	NAS1149C0332R	. WASHER				3
384	BACN10YR3C	. NUT				3
385	332T4922-424	. BRACKET		FWD		1
385	332T4922-232	. BRACKET (REPLACED BY 332T4922-424)		FWD	LTD	-
C1	C00259	. PRIMER			CON	AR

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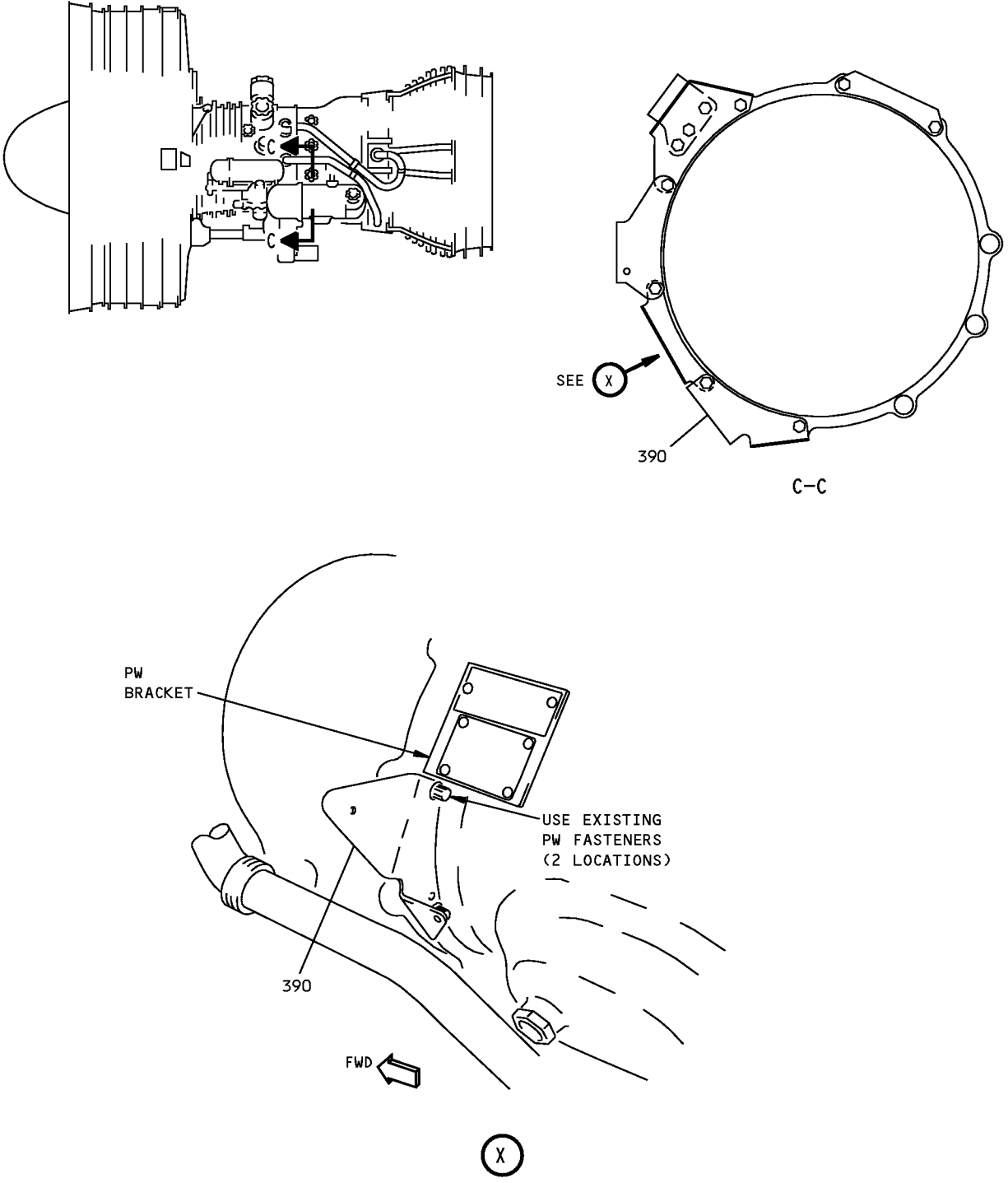
P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case**  
**Figure 3-3 (Sheet 25)**

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P/P BUILDUP FIGURE 3-3  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<p><b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b>  <b>(FIGURE 3-3, SHEET 25)</b></p> <p>ATTACH BRACKET (390) TO ENGINE OIL TANK USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. USE WET primer, C00259 (C1) ON FAYING SURFACES BETWEEN BRACKET AND OIL TANK. TIGHTEN PW FASTENERS TO 180-200 LB-IN.</p>				
390	332T4922-396	. BRACKET		FWD		1
C1	C00259	. PRIMER			CON	AR

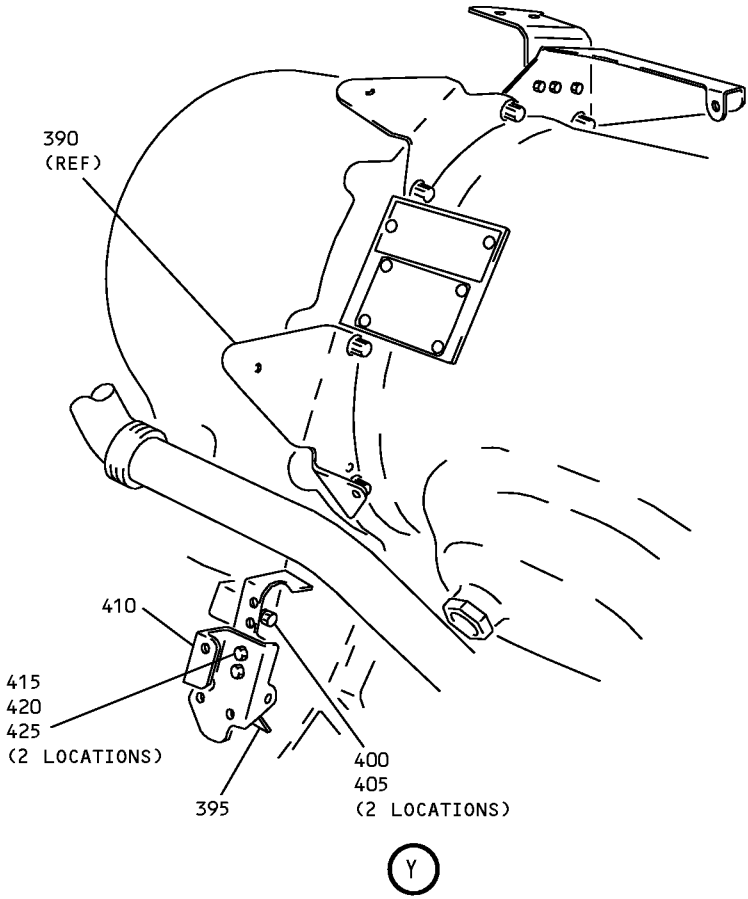
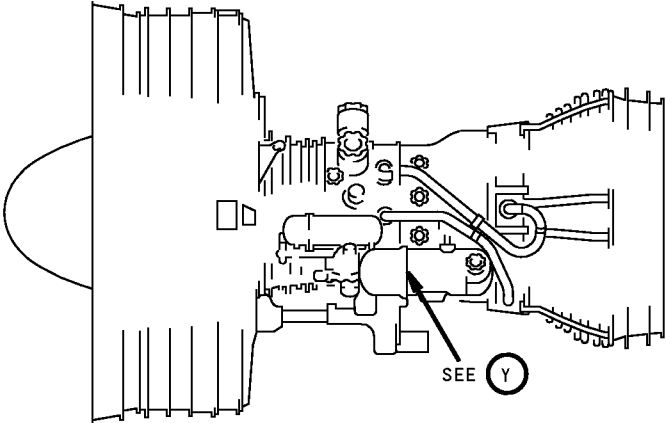
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P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL



Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 26)

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P/P BUILDUP FIGURE 3-3  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 26)</b>  ATTACH BRACKET (395) TO MAIN GEARBOX USING FASTENERS (400, 405). USE WET primer, C00259 (C1) ON FAYING SURFACES BETWEEN BRACKET AND MAIN GEARBOX.				
395	332T4921-54	. BRACKET				1
400	BACB30LM4-1	. BOLT				2
405	BACW10BP4ACU	. WASHER (CSK TOWARDS BOLT HEAD)				2
C1	C00259	. PRIMER			CON	AR
		ATTACH BRACKET (410) TO BRACKET (395) USING FASTENERS (415 THRU 425).				
410	332T4922-606	. BRACKET		AFT		1
410	332T4922-392	. BRACKET (REPLACED BY 332T4922-606)		AFT	LTD	-
415	BACB30LM3U2	. BOLT				2
420	NAS1149C0332R	. WASHER				2
425	BACN10YR3C	. NUT				2

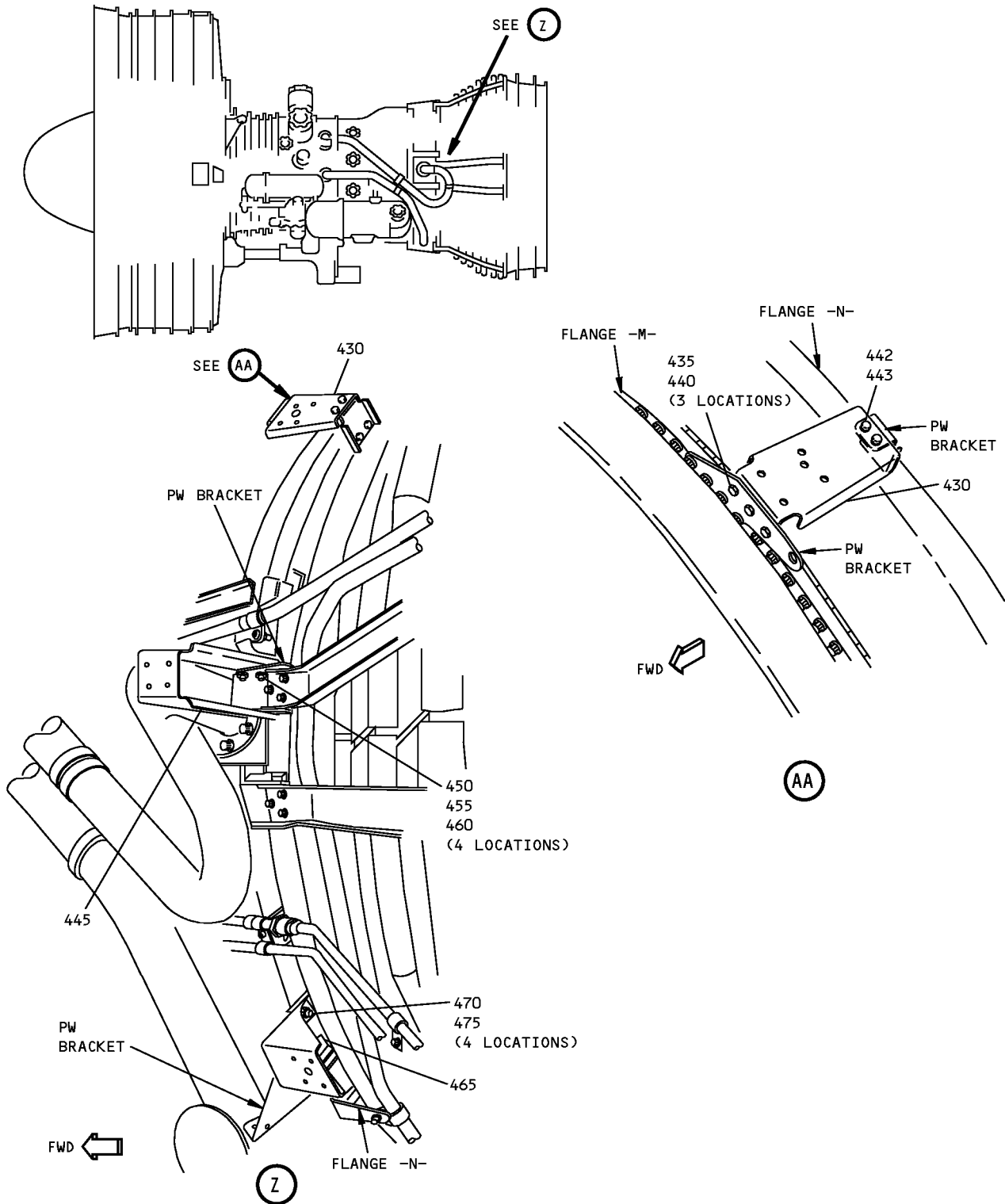
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P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 27)**

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P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 27)</b>  ATTACH BRACKET (430) TO PW BRACKETS AT 10:30 POSITION USING FASTENERS (435 THRU 443).  ATTACH BRACKET (445) TO PW BRACKET AT 9:00 POSITION USING FASTENERS (450 THRU 460).  ATTACH BRACKET (465) TO PW BRACKET AT 8:00 POSITION USING FASTENERS (470, 475).				
430	332T4922-456	. BRACKET	AFT	AFT		1
435	BACB30LM3U3	. BOLT				3
440	BACW10BP3ACU	. WASHER (CSK TOWARDS BOLT HEAD)				3
442	BACB30LM3U2	. BOLT				2
443	NAS1149C0332R	. WASHER				2
445	332T4922-204	. BRACKET				1
450	BACB30LM3U3	. BOLT				4
455	NAS1149C0363R	. WASHER				4
455	NAS1149C0316R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
455	NAS1149C0332R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
460	BACN10YR3C	. NUT				4
465	332T4922-96	. BRACKET				1
470	BACB30LM3U3	. BOLT				4
475	BACW10BP3ACU	. WASHER (CSK TOWARDS BOLT HEAD)				4

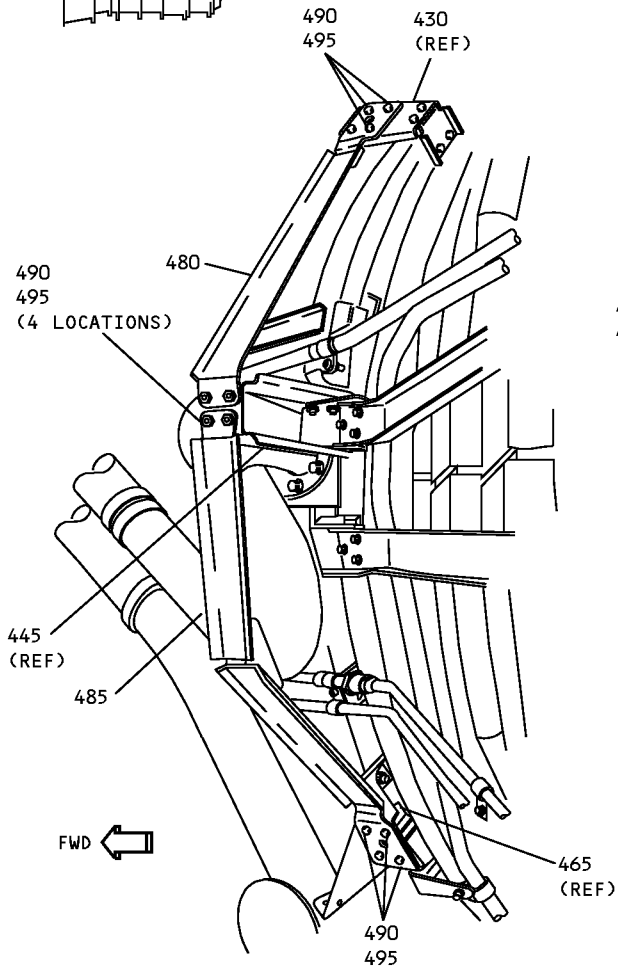
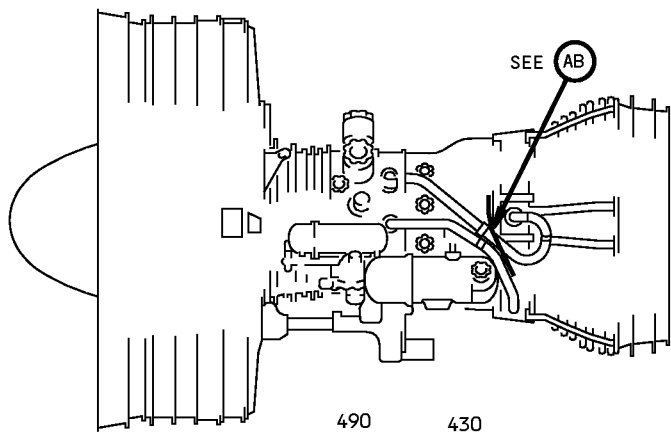
**71-00-02**

P/P BUILDUP FIGURE 3-3

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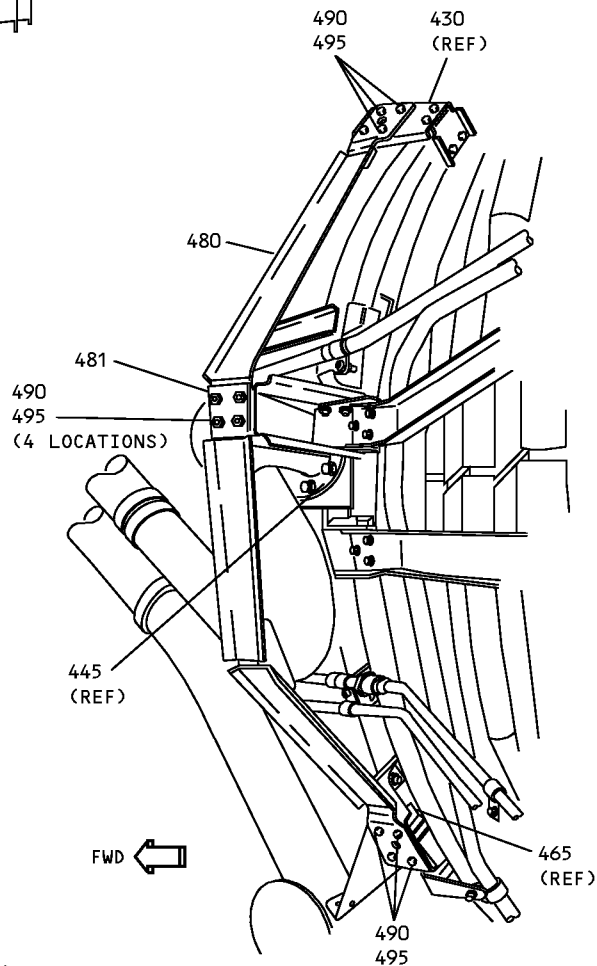
Jun 01/2008

**POWERPLANT BUILDUP MANUAL**



CONFIGURATION A

(AB)



CONFIGURATION B

(AB)

**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 28)**

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P/P BUILDUP FIGURE 3-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 28)</b>  <u>CONFIGURATION B;</u>  POSITION BRACKET (480) BETWEEN BRACKETS (430, 445, 465) AND PLATE (481) OVER BRACKET (480). SECURE BRACKET (480) AND PLATE (481) WITH FASTENERS (490, 495).  <u>CONFIGURATION A;</u>  POSITION BRACKET (480) AND HEAT SHIELD (485) BETWEEN BRACKETS (430, 445, 465) AND SECURE WITH FASTENERS (490, 495).				
480	332T4925-77	. BRACKET <sup>[B]</sup>				1
480	332T4925-59	. BRACKET (REPLACED BY 332T4925-77)			LTD	-
480	332T4922-464	. BRACKET (1 REQD) <sup>[A]</sup>			LTD	-
481	332T4925-61	. PLATE <sup>[B]</sup>				1
485	332T4922-485	. HEAT SHIELD (1 REQD) <sup>[A]</sup>			LTD	-
485	332T4922-375	. SHIELD (REPLACED BY 332T4922-485)			LTD	-
490	BACB30LM3U3	. BOLT				10
495	BACW10BP3ACU	. WASHER (CSK TOWARDS BOLT HEAD)				10

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P/P BUILDUP FIGURE 3-3

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THIS SHEET NOT USED

**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 29)**

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P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
3-3		BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 3-3, SHEET 29)  THIS SHEET NOT USED		

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P/P BUILDUP FIGURE 3-3

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**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 30)**

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P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
3-3		BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 3-3, SHEET 30)  THIS SHEET NOT USED		

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P/P BUILDUP FIGURE 3-3

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THIS SHEET NOT USED

**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 31)**

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P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
3-3		BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 3-3, SHEET 31)  THIS SHEET NOT USED		

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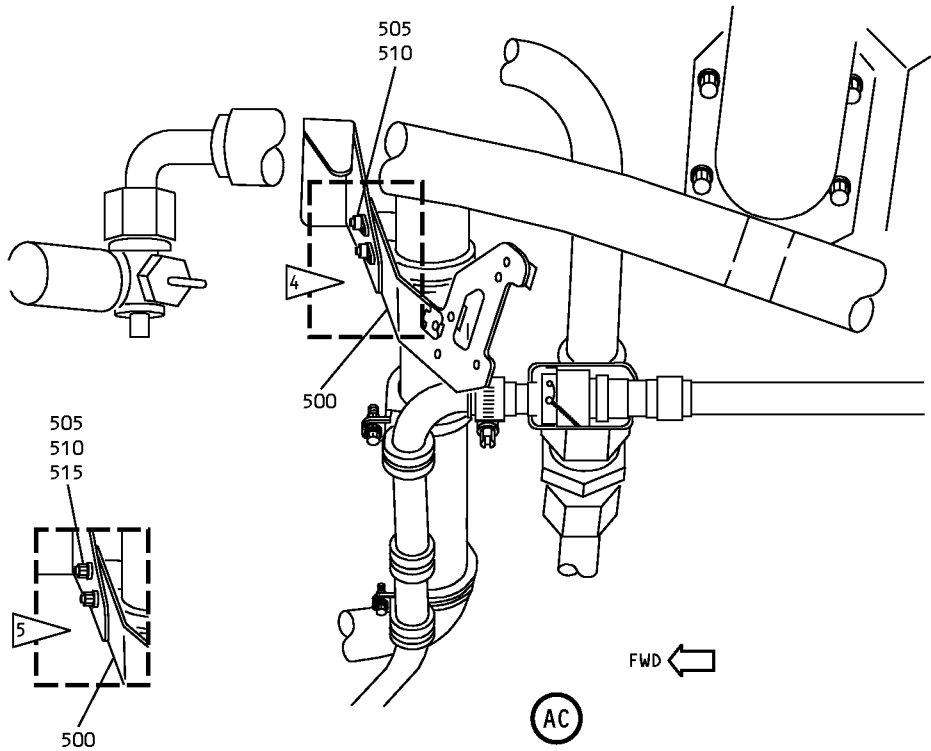
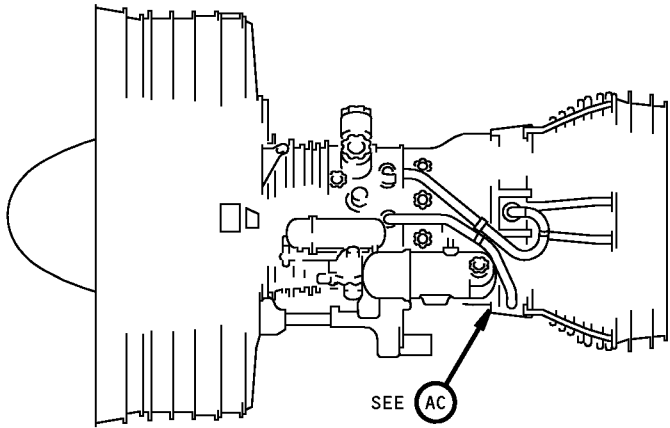
P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL



- 4 ENGINES WITH P&W BRACKET NUTPLATES
- 5 ENGINES WITHOUT P&W BRACKET NUTPLATES

Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 32)

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P/P BUILDUP FIGURE 3-3  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 32)</b>  ATTACH BRACKET (500) TO P&W BRACKET USING FASTENERS (505 AND 510).  IF P&W BRACKET IS WITHOUT NUTPLATES USE NUT (515).  . BRACKET <sup>[2]</sup> . BRKT (REPLACED BY 332T4921-286) (1 REQD) <sup>[1]</sup> . BRKT (REPLACED BY 332T4925-29) (1 REQD) <sup>[1]</sup> . BRKT (REPLACED BY 332T4922-460) (1 REQD) <sup>[1]</sup> . BOLT . WASHER . NUT (2 REQD) <sup>[1]*[2]*[3]</sup>  *[1] WITHOUT OIL PUMP PULSE DAMPENER *[2] WITH OIL PUMP PULSE DAMPENER *[3] INSTALLED ON ENGINE BRACKETS WITHOUT NUTPLATES				1
500	332T4921-286	. BRACKET <sup>[2]</sup>				1
500	332T4925-29	. BRKT (REPLACED BY 332T4921-286) (1 REQD) <sup>[1]</sup>			LTD	-
500	332T4922-460	. BRKT (REPLACED BY 332T4925-29) (1 REQD) <sup>[1]</sup>			LTD	-
500	332T4922-1	. BRKT (REPLACED BY 332T4922-460) (1 REQD) <sup>[1]</sup>			LTD	-
505	BACB30LM3U4	. BOLT				2
510	NAS1149C0332R	. WASHER				2
515	BACN10YR3C	. NUT (2 REQD) <sup>[1]*[2]*[3]</sup>			LTD	-

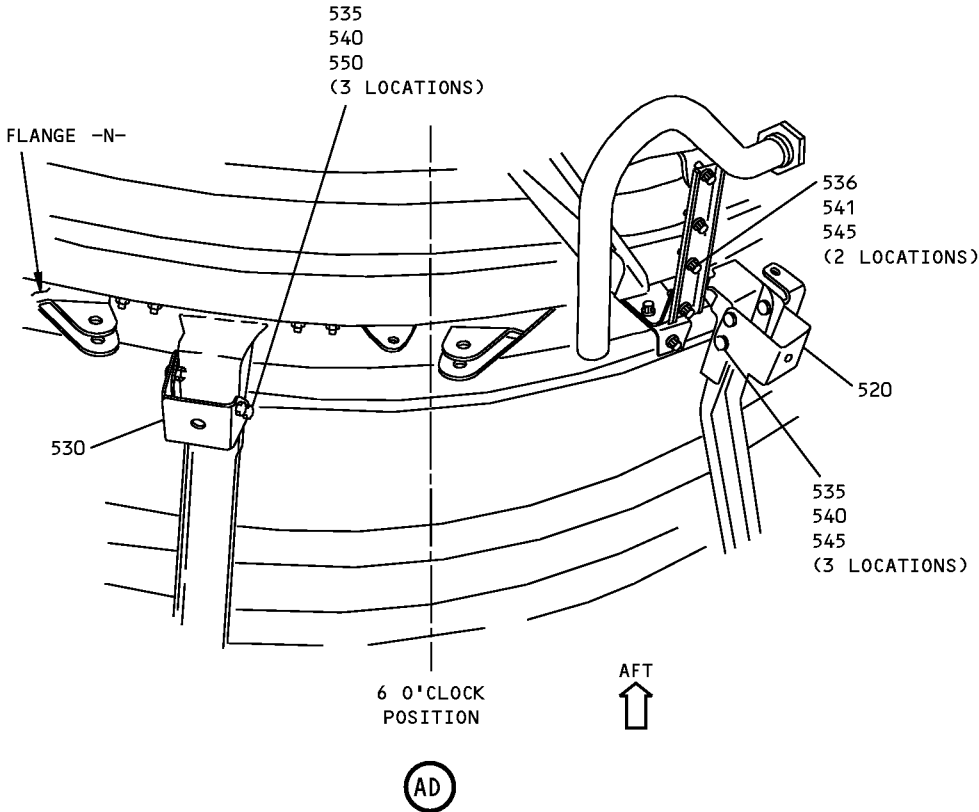
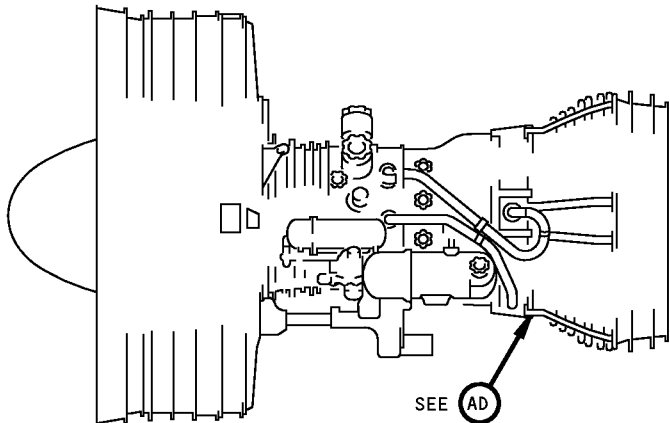
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P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 33)**

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P/P BUILDUP FIGURE 3-3  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 33)</b>  ATTACH BRACKETS (520, 530) TO FLANGE N BRACKETS BETWEEN 5:00 AND 7:00 POSITIONS USING FASTENERS (535 THRU 550) AND EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN PW FASTENERS TO 62-72 LB-IN.				
520	332T4922-236	. BRACKET				1
530	332T4922-55	. BRACKET				1
535	BACB30LM3U3	. BOLT				6
536	BACB30LM3U2	. BOLT				2
540	NAS1149C0363R	. WASHER				6
540	NAS1149C0316R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
540	NAS1149C0332R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
541	NAS1149C0332R	. WASHER				2
545	BACN10YR3C	. NUT				5
550	BACN11Z3C	. NUT <sup>[1]</sup>				3
550	BACN11Z3CK	. NUT (OPTIONAL TO BACN11Z3C)			OPT	-
		*[1] NOT REQD IF PW BRACKET HAS NUTPLATES				

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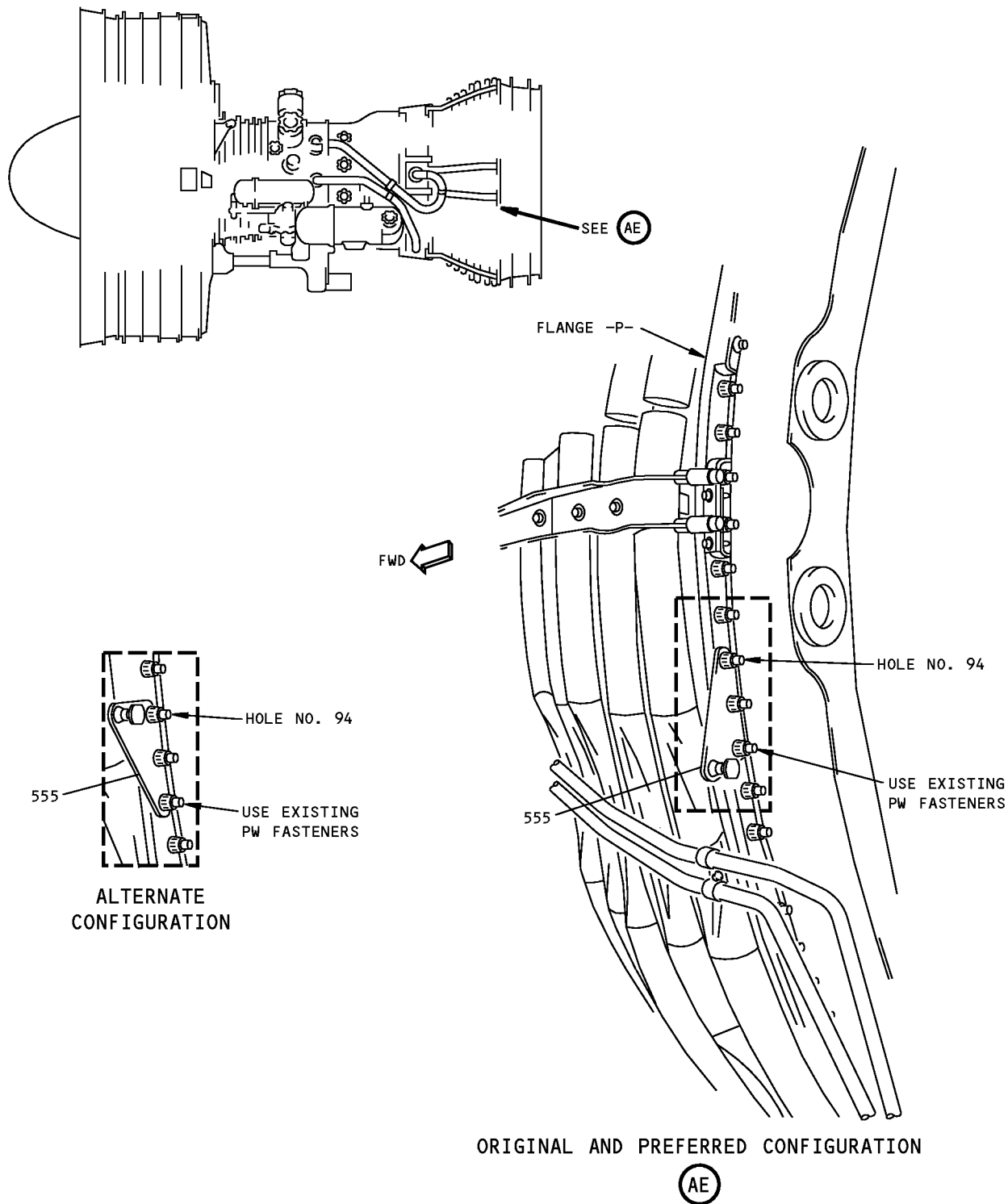
P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 34)**

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P/P BUILDUP FIGURE 3-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 34)</b>  ATTACH BRACKET (555) TO ENGINE FLANGE P AT 8:30 POSITION USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 180-200 LB-IN.				
555	332T4922-630	. BRACKET (LUG DOWN)	AFT	AFT		1
555	332T4922-610	. BRACKET (LUG UP) (REPLACED BY 332T4922-630)	AFT	AFT	LTD	-
555	332T4922-370	. BRACKET (LUG DOWN) (REPLACED BY 332T4922-610)	AFT	AFT	LTD	-

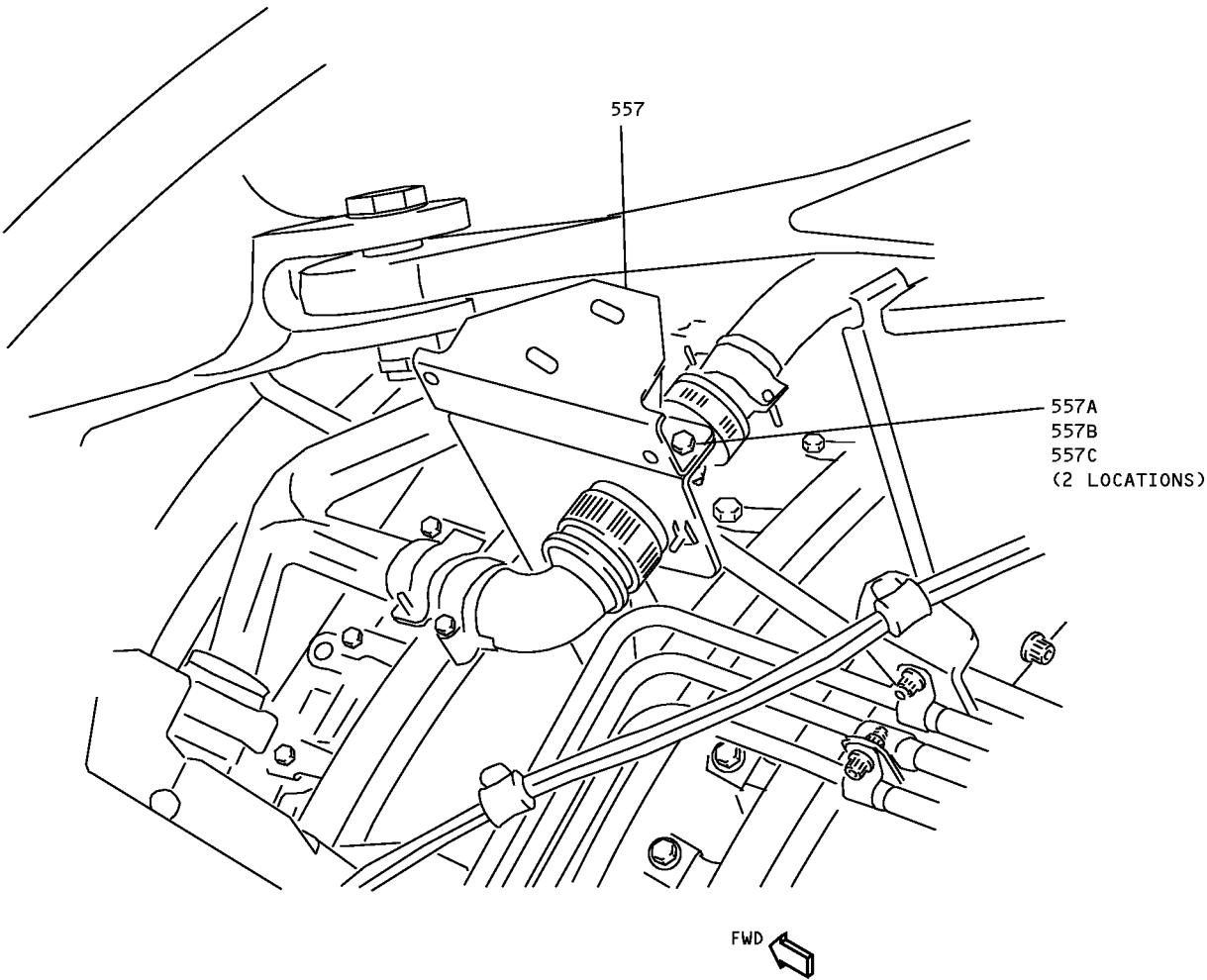
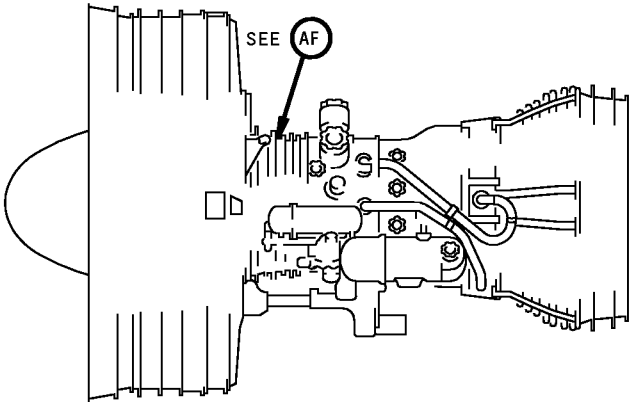
**71-00-02**

P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



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**Bracket Installation - Left Side Core Case**  
**Figure 3-3 (Sheet 35)**

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P/P BUILDUP FIGURE 3-3  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 35)</b>  ATTACH BRACKET ASSY (557) TO PW BRACKET USING FASTENERS (557A THRU 557C).  . BRACKET ASSY . BOLT . WASHER . NUT <sup>[1]</sup>  *[1] NOT REQD IF PW BRACKET HAS NUTPLATES				1 2 2 2
557	332T4921-267					
557A	BACB30LM3U2					
557B	NAS1149C0332R					
557C	BACN10YR3C					

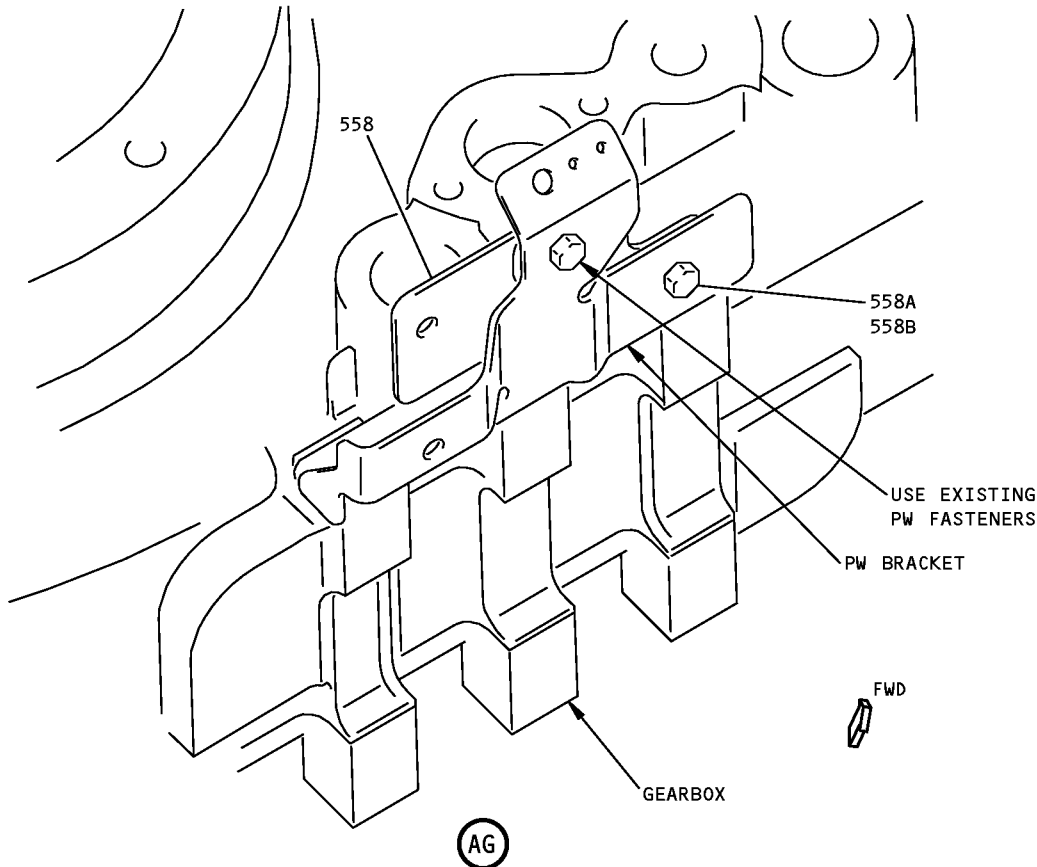
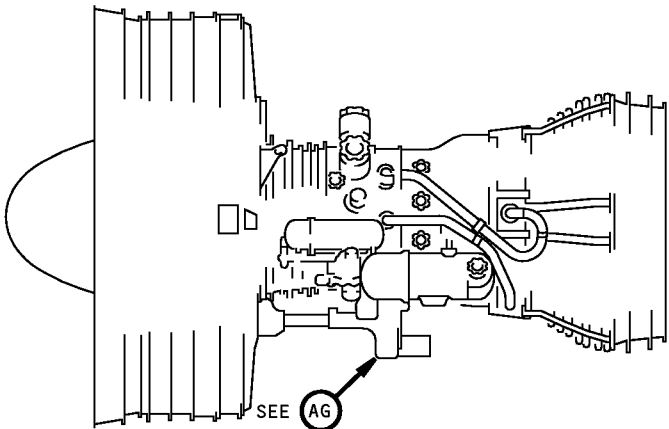
**71-00-02**

P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL



Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 36)

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P/P BUILDUP FIGURE 3-3  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 36)</b>  ATTACH BRACKET ASSY (558) TO UPPER SIDE OF PW BRACKET LOCATED ON MAIN GEARBOX AT 6:30 O'CLOCK POSITION USING ITEMS (558A, 558B) AND EXISTING PW FASTENERS.				
558	332T4922-692	. BRACKET ASSY				1
558	332T4922-665	. BRKT (REPLACED BY 332T4922-692) <sup>[1]</sup>			LTD	-
558A	BACB30LM3U2	. BOLT				1
558B	NAS1149C0363R	. WASHER				1
558B	NAS1149C0316R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
558B	NAS1149C0332R	. WASHER (OPTIONAL TO NAS1149C0363R)			OPT	-
		*[1] NOT INSTALLED ON EARLIER ENGINES				

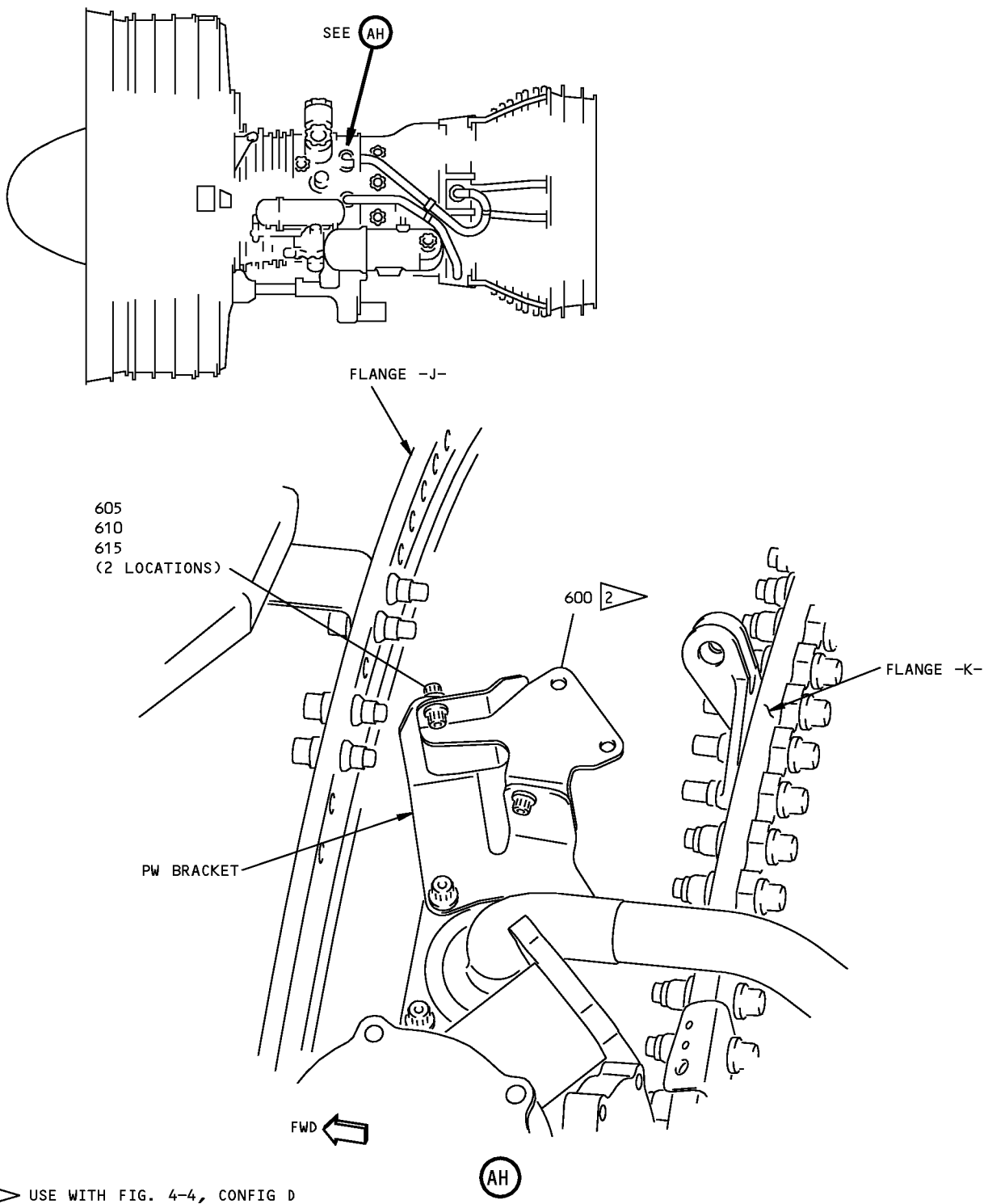
**71-00-02**

P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case  
Figure 3-3 (Sheet 37)**

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P/P BUILDUP FIGURE 3-3

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<p><b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b>  <b>(FIGURE 3-3, SHEET 37)</b></p> <p><u>ENGINES POST-SB 747-71-2303/ 767-71-0104;</u></p> <p>ATTACH BRACKET ASSY (600) TO PW BRACKET USING ITEMS (605 THRU 615).</p> <p>. BRACKET ASSY<sup>[1]</sup></p> <p>. BRACKET (REPLACED BY 332T4921-340)</p> <p>. BOLT</p> <p>. WASHER</p> <p>. NUT</p> <p><u>(POST-SB 747-71-2303/ 767-71-0104)</u></p> <p>*[1] USE WITH OVERBOARD STRUT DRAIN INSTALLATION/Figure 4-4, CONFIG D</p>				
600	332T4921-340				LTD	1
600	332T4921-325					-
605	BACB30ZF3-06					2
610	NAS1149C0332R					2
615	BACN10YR3C					2

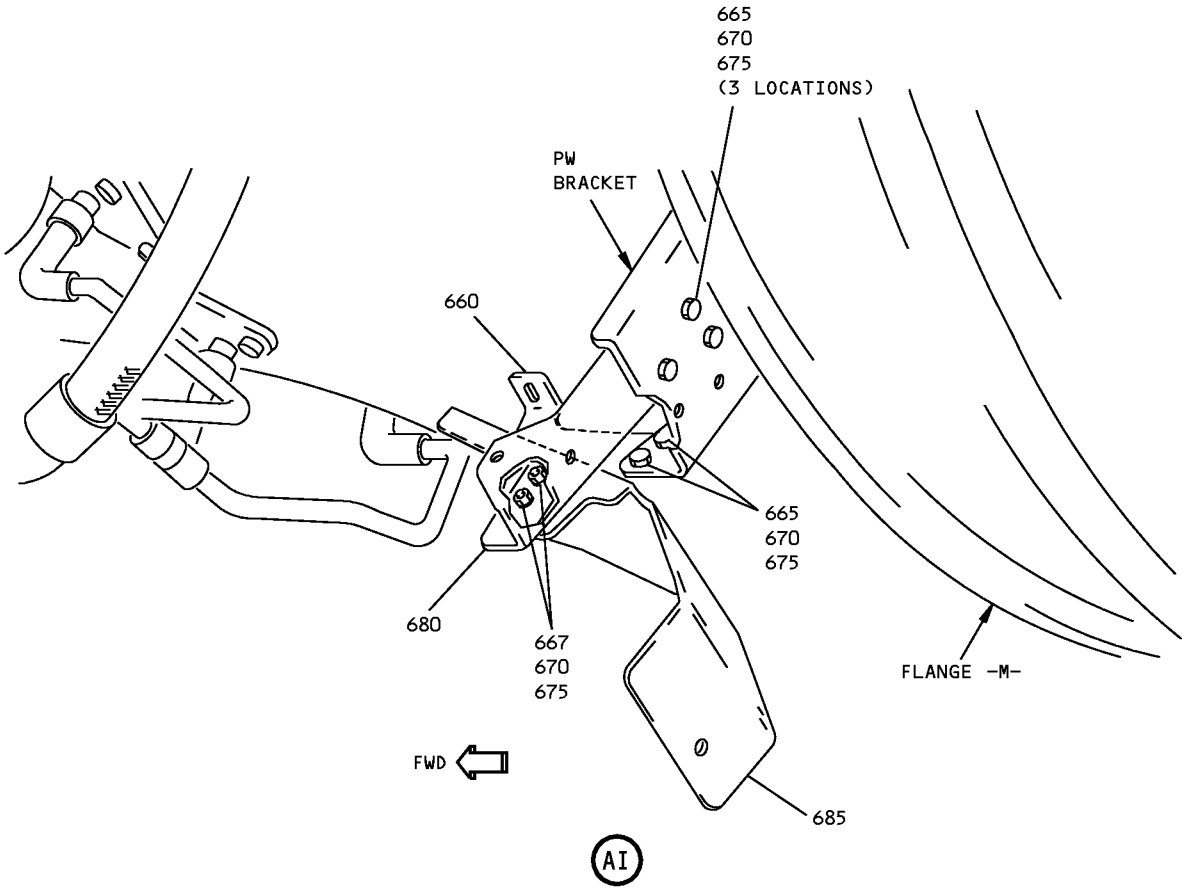
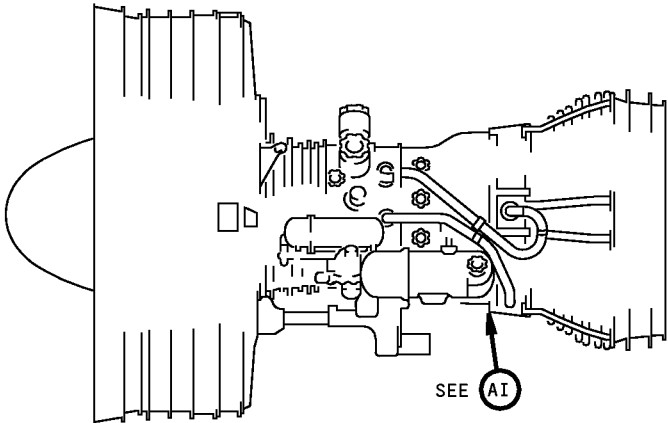
**71-00-02**

P/P BUILDUP FIGURE 3-3

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Left Side Core Case**  
**Figure 3-3 (Sheet 38)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-3		<b>BRACKET INSTALLATION - LEFT SIDE CORE CASE</b> <b>(FIGURE 3-3, SHEET 38)</b>  SECURE BRACKET (660) TO RIGHT SIDE OF PW INSTALLED BRACKET (AFT LOOKING FWD) AT 6 O'CLOCK POSITION, ON FLANGE M, WITH ITEMS (665, 670, AND 675). SECURE BRACKET (680) TO FORWARD SIDE OF PW INSTALLED BRACKET AT 6 O'CLOCK POSITION WITH ITEMS (665, 670, AND 675). POSITION HEAT SHIELD (685) ON RIGHT SIDE OF BRACKET (680) AND SECURE WITH ITEMS (667, 670, AND 675).				
660	332T4922-395	. BRACKET				1
665	BACB30LM3U2	. BOLT				5
667	BACB30LM3U4	. BOLT				2
670	NAS1149C0332R	. WASHER				7
675	BACN10YR3C	. NUT				7
680	332T4922-358	. BRACKET				1
685	332T4922-354	. HEAT SHIELD				1

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P/P BUILDUP FIGURE 3-3

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FIGURE 3-4

# BRACKET INSTALLATION - RIGHT SIDE CORE CASE

REF QEC TASK NO.: 3

REF DWG: 332T4920  
332T4900

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

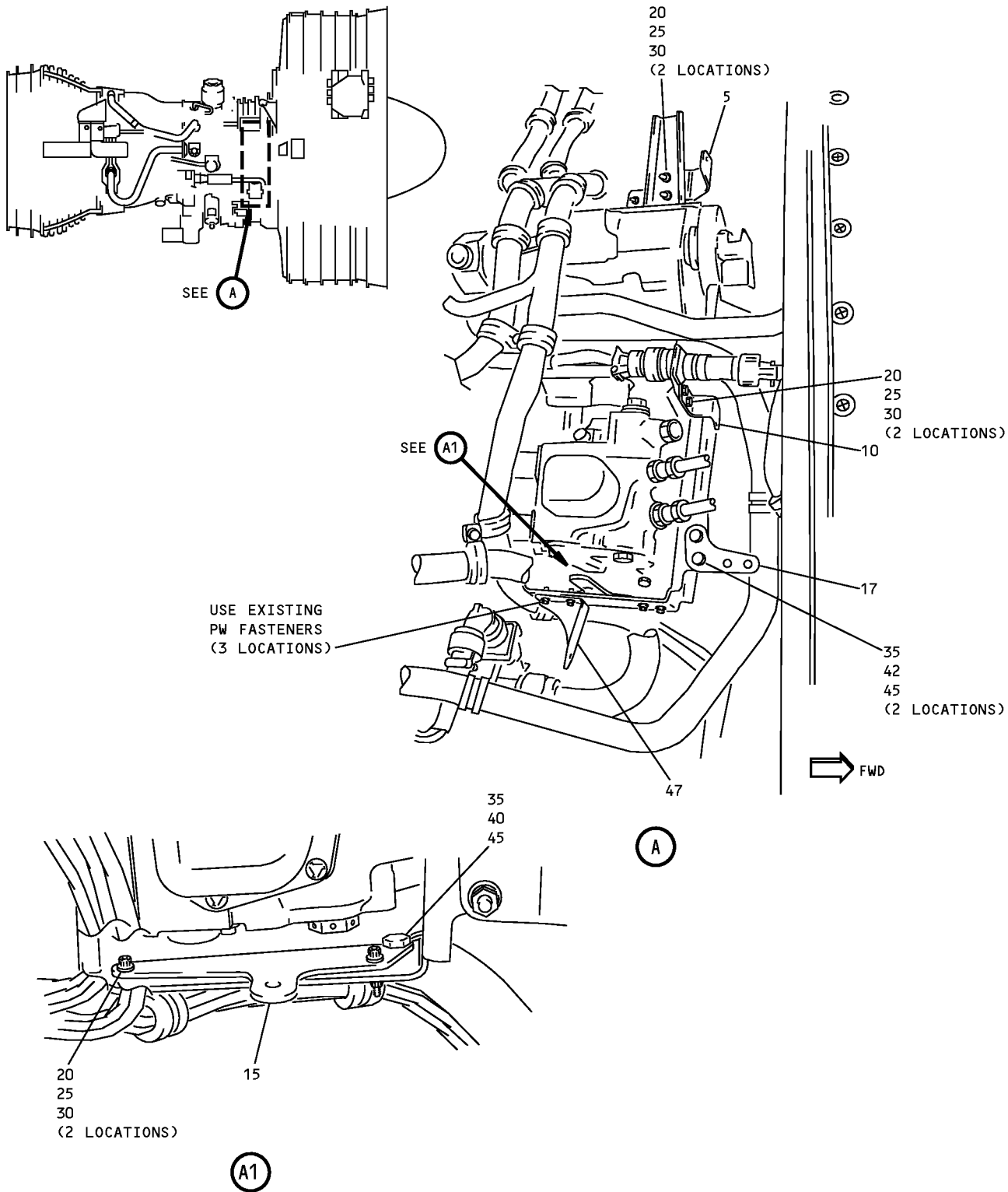
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P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL



Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 1)

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P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 1)</b>  ATTACH BRACKETS (5 THRU 17) TO ENGINE AT 3:00 THRU 5:00 POSITIONS USING FASTENERS (20 THRU 45).				
5	332T4922-494	. BRACKET				1
5	332T4922-197	. BRACKET (REPLACED BY 332T4922-494)			LTD	-
10	332T4922-326	. BRACKET (1 REQD) <sup>[1]</sup>			LTD	-
15	332T4922-237	. BRACKET (1 REQD) <sup>[1]</sup>			LTD	-
17	332T4922-469	. BRACKET				1
20	BACB30LM3U3	. BOLT (6 REQD WITH BOEING BRKTS)				2
25	NAS1149C0363R	. WASHER (6 REQD W/BOEING BRKTS)				2
30	BACN10YR3C	. NUT (6 REQD WITH BOEING BRKTS)				2
35	BACB30LM4U3	. BOLT (3 REQD WITH BOEING BRKT)				2
40	NAS1149C0463R	. WASHER (1 REQD WITH BOEING BRKT)			LTD	-
42	NAS1149C0432R	. WASHER				2
45	BACN10YR4C	. NUT (3 REQD WITH BOEING BRKT)				2
47	332T4921-312	ATTACH BRACKET ASSY (47) TO ENGINE AT 5:00 POSITION USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. . BRACKET ASSY  *[1] REPLD BY PW BRKT ON LATER ENGINES				1

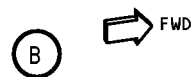
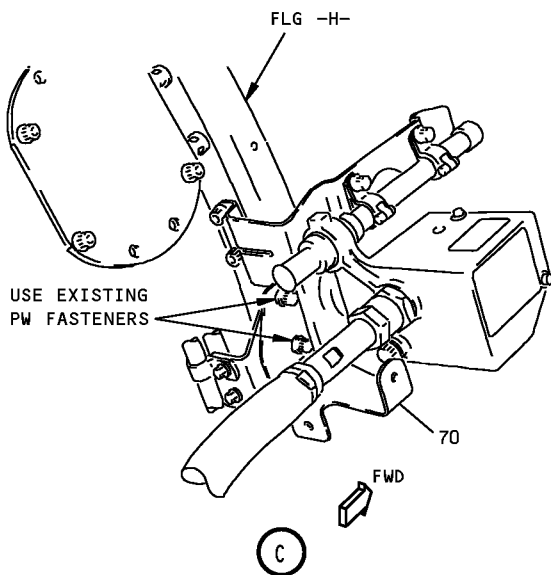
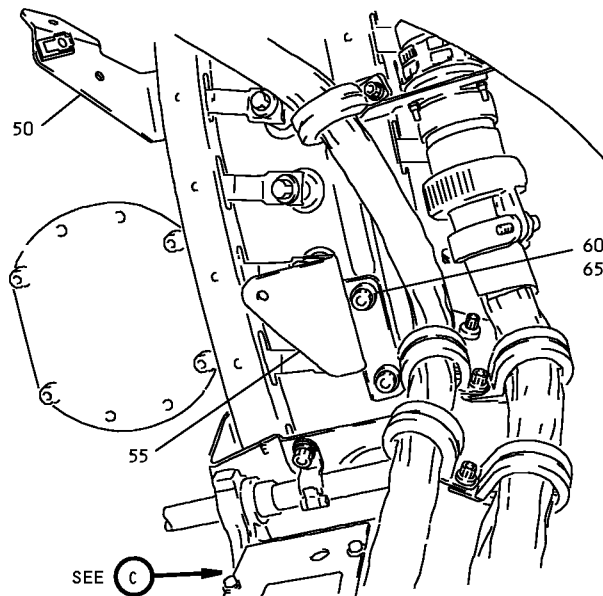
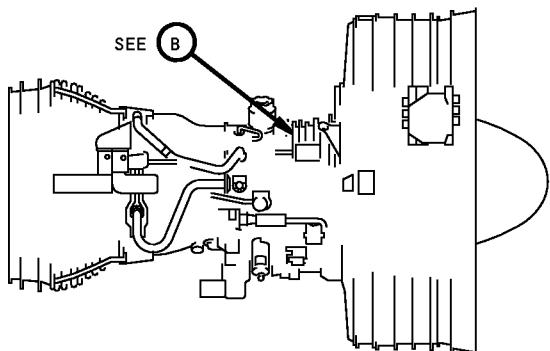
**71-00-02**

P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 2)**

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P/P BUILDUP FIGURE 3-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 2)</b>  <u>ENGINES WITH BOEING BRACKET;</u>  ATTACH BRACKET (50) TO ENGINE FLANGE H AT 1:00 POSITION USING PW FASTENERS AFTER DISCARDING YELLOW SPACERS TIGHTEN TO 180-200 LB-IN.  . BRACKET (1 REQD) <sup>*[1]</sup> . BRACKET (REPLACED BY 332T4925-32) . BRACKET (REPLACED BY 332T4925-3) . BRACKET (REPLACED BY 332T4922-450)  <u>ENGINES WITH BOEING BRACKET;</u>  ATTACH BRACKET (55) TO ENGINE BOSSES AT 1:00 POSITION USING FASTENERS (60, 65). . BRACKET (1 REQD) <sup>*[1]</sup> . BOLT (2 REQD) . WASHER (2 REQD) (CSK TOWARDS BOLT HEAD)  ATTACH BRACKET (70) TO ENGINE FLANGE H AT 2:00 POSITION USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. INSTALL OVER PW BRACKET AND TIGHTEN TO 180-200 LB-IN. . BRACKET . BRACKET (REPLACED BY 332T4921-293)  *[1] REPLD BY PW BRKT ON LATER ENGINES				
50	332T4925-32	. BRACKET (1 REQD) <sup>*[1]</sup>	AFT	AFT	LTD	-
50	332T4925-3	. BRACKET (REPLACED BY 332T4925-32)	AFT	AFT	LTD	-
50	332T4922-450	. BRACKET (REPLACED BY 332T4925-3)	AFT	AFT	LTD	-
50	332T4922-356	. BRACKET (REPLACED BY 332T4922-450)	AFT	AFT	LTD	-
55	332T4922-109	. BRACKET (1 REQD) <sup>*[1]</sup>			LTD	-
60	BACB30LM5U2	. BOLT (2 REQD)			LTD	-
65	BACW10BP5ACU	. WASHER (2 REQD) (CSK TOWARDS BOLT HEAD)			LTD	-
70	332T4921-293	. BRACKET				1
70	332T4921-207	. BRACKET (REPLACED BY 332T4921-293)			LTD	-

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P/P BUILDUP FIGURE 3-4

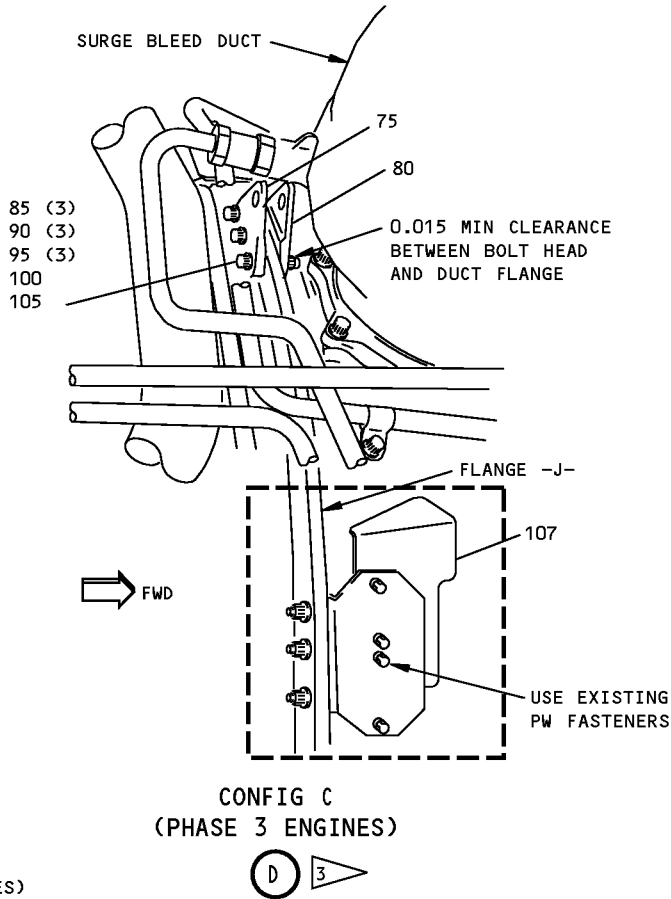
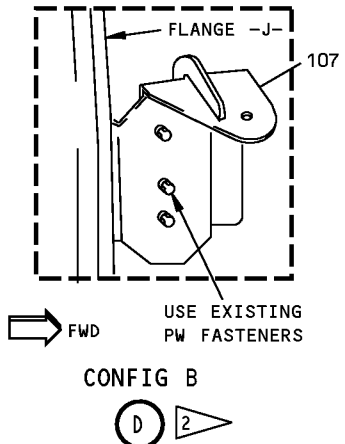
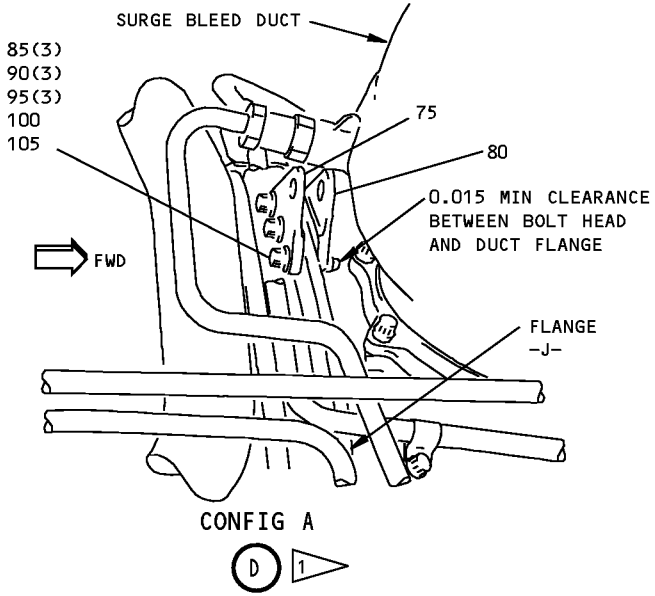
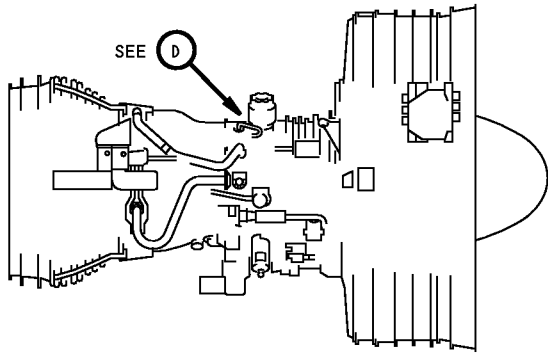
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**POWERPLANT BUILDUP MANUAL**



- 1 USE WITH FIG. 4-3, CONFIG A
- 2 USE WITH FIG. 4-3, CONFIG B
- 3 USE WITH FIG. 4-3, CONFIG C (PHASE 3 ENGINES)

**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 3)**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 3)</b>  ATTACH BRACKETS (75, 80) TO ENGINE FLANGE J AT 12:30 POSITION USING FASTENERS (85 THRU 95). ADD WASHERS (100, 105) AS REQUIRED BETWEEN WASHER (95) AND BRACKET (75) TO OBTAIN .015 MINIMUM CLEARANCE BETWEEN BOLT AND ENGINE CASE BOSS. THREADS IN BEARING ARE PERMISSIBLE.				
75	332T4364-2	. BRACKET	AFT			1
80	332T4364-3	. BRACKET	FWD			1
80	332T4364-1	. BRACKET (REPLACED BY 332T4364-3)	FWD		LTD	-
85	BACB30UU4-11	. BOLT				3
85	BACB30PN4-10	. BOLT			OPT	-
90	BACN10YR4C	. NUT				3
95	BACW10BP4ACU	. WASHER (CSK TOWARDS BOLT HEAD)				3
100	NAS1149C0463R	. WASHER				AR
105	NAS1149C0432R	. WASHER				AR
		ATTACH BRACKET (107) TO PW BRACKET AT FLANGE J USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS.				
107	332T4921-299	. BRACKET <sup>[2]</sup>	FWD			1
107	332T4921-291	. BRKT (REPLACED BY 332T4921-299) (QTY 1) <sup>[2]</sup>	FWD		LTD	-
107	332T4921-264	. BRKT (REPLACED BY 332T4921-291) (QTY 1) <sup>[2]</sup>	FWD		LTD	-
107	332T4921-215	. BRKT <sup>[1]</sup>	FWD		LTD	1
		*[2] ON PHASE 3 ENGINES				
		*[1] ALL EXCEPT PHASE 3 ENGINES				

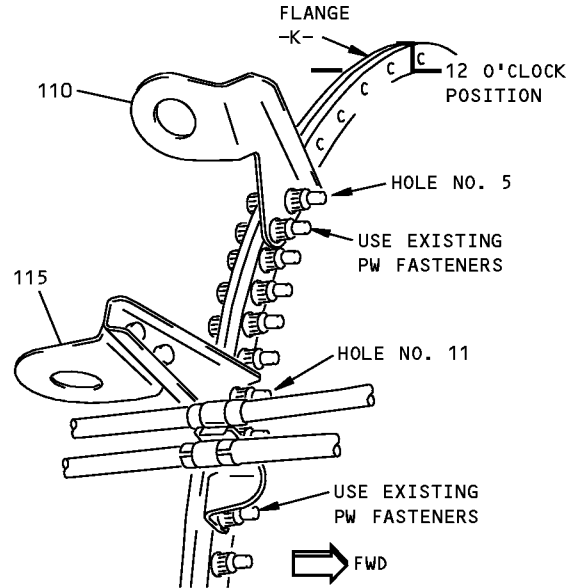
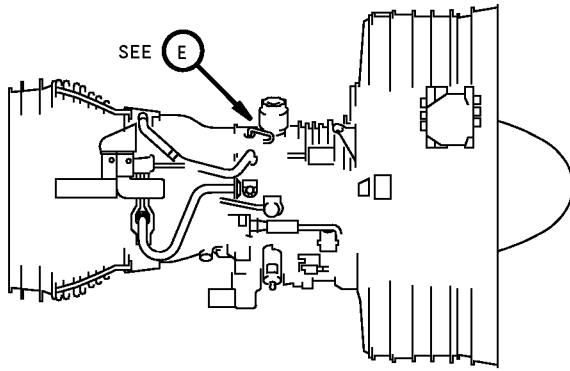
71-00-02

P/P BUILDUP FIGURE 3-4

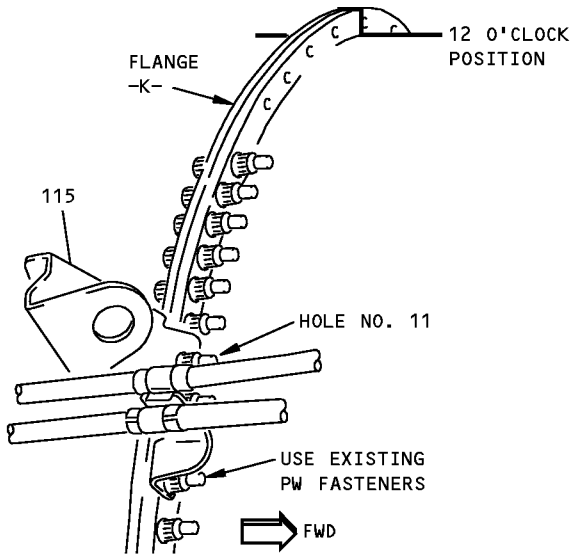
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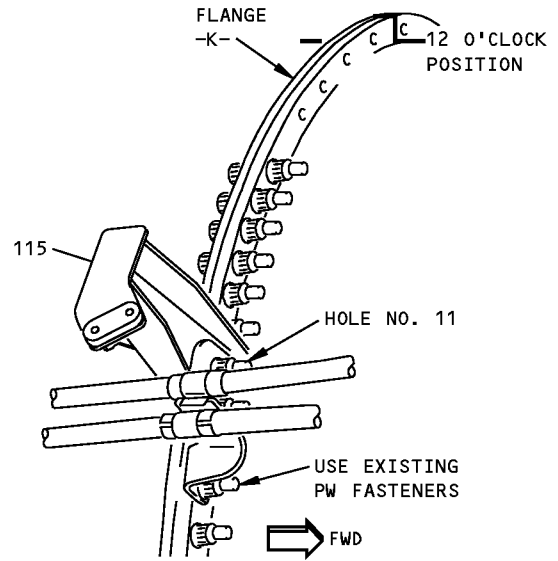
**POWERPLANT BUILDUP MANUAL**



**ORIGINAL CONFIGURATION**



**ALTERNATE CONFIGURATION**



**PREFERRED CONFIGURATION**



- 1 USE WITH FIG. 4-4, CONFIG A
- 2 USE WITH FIG. 4-4, CONFIG B AND CONFIG C
- 3 USE WITH FIG. 4-4, CONFIG D

**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 4)**

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P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE (FIGURE 3-4, SHEET 4)</b>				
110	332T4922-54	ATTACH BRACKET (110) TO ENGINE FLANGE K AT 12:30 POSITION USING EXISTING P&W FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 180-200 LB-IN. . BRACKET <sup>[1]</sup>	FWD			1
115	332T4921-327	ATTACH BRACKET (115) TO ENGINE FLANGE K AT 12:30 POSITION USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 180-200 LB-IN. . BRACKET <sup>[2]</sup>	FWD			1
115	332T4922-467	. BRACKET <sup>[3]</sup>	FWD			1
115	332T4922-225	. BRACKET <sup>[1]</sup>	FWD			1
		*[3] ALTERNATE CONFIGURATION *[2] PREFERRED CONFIGURATION *[1] ORIGINAL CONFIGURATION				

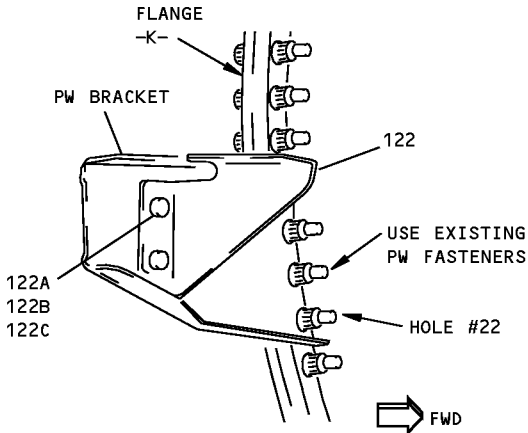
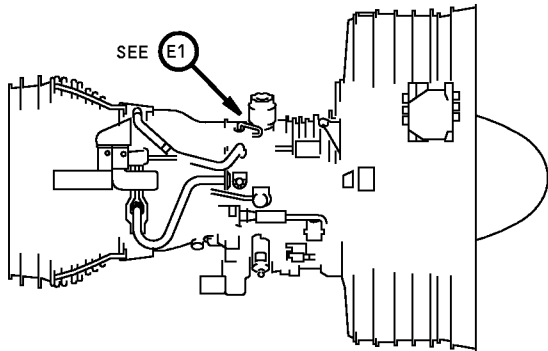
**71-00-02**

P/P BUILDUP FIGURE 3-4

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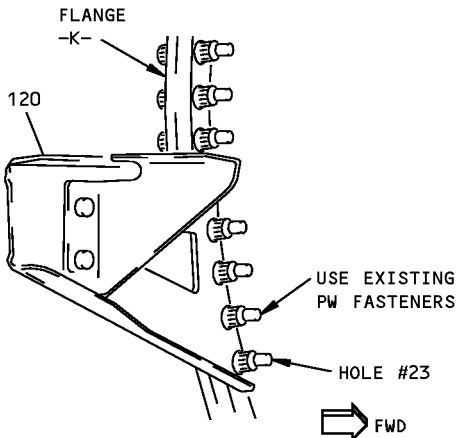
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**POWERPLANT BUILDUP MANUAL**



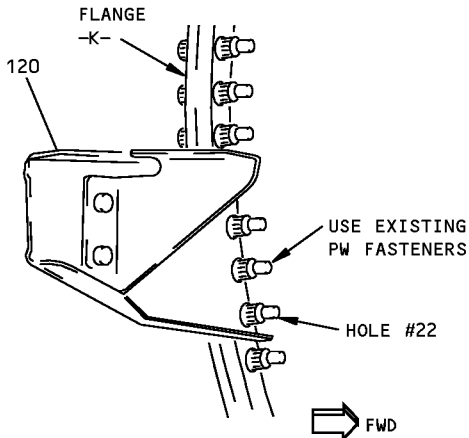
**PREFERRED CONFIGURATION**

**E1** 2



**ORIGINAL CONFIGURATION**

**E1** 1



**ALTERNATE CONFIGURATION**

**E1** 2

- 1 ALL EXCEPT PHASE 3 ENGINES
- 2 PHASE 3 ENGINES

**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 5)**

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P/P BUILDUP FIGURE 3-4

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ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<p><b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b>  <b>(FIGURE 3-4, SHEET 5)</b></p> <p><u>PREFERRED CONFIG</u></p> <p>ATTACH BRACKET (122) TO PW BRACKET USING FASTENERS (122A THRU 122C).</p> <p>. BRACKET                      . BOLT                      . WASHER                      . NUT</p> <p><u>ALTERNATE AND ORIGINAL CONFIG</u></p> <p>ATTACH BRACKET (120) TO ENGINE FLANGE K AT 2:00 POSITION USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 180-200 LB-IN.</p> <p>. BRKT (1 REQD) (PHASE 3 ENG)<sup>[1]</sup>                      . BRKT (ALL EXCEPT PHASE 3 ENGINES)</p> <p>*[1] REPLD BY PW BRKT ON LATER ENGINES</p>				
122	332T4922-647	. BRACKET				1
122A	BACB30LM3U3	. BOLT				2
122B	NAS1149C0363R	. WASHER				2
122C	BACN10YR3C	. NUT				2
120	332T4922-637	. BRKT (1 REQD) (PHASE 3 ENG) <sup>[1]</sup>	FWD		LTD	-
120	332T4922-300	. BRKT (ALL EXCEPT PHASE 3 ENGINES)	FWD			1

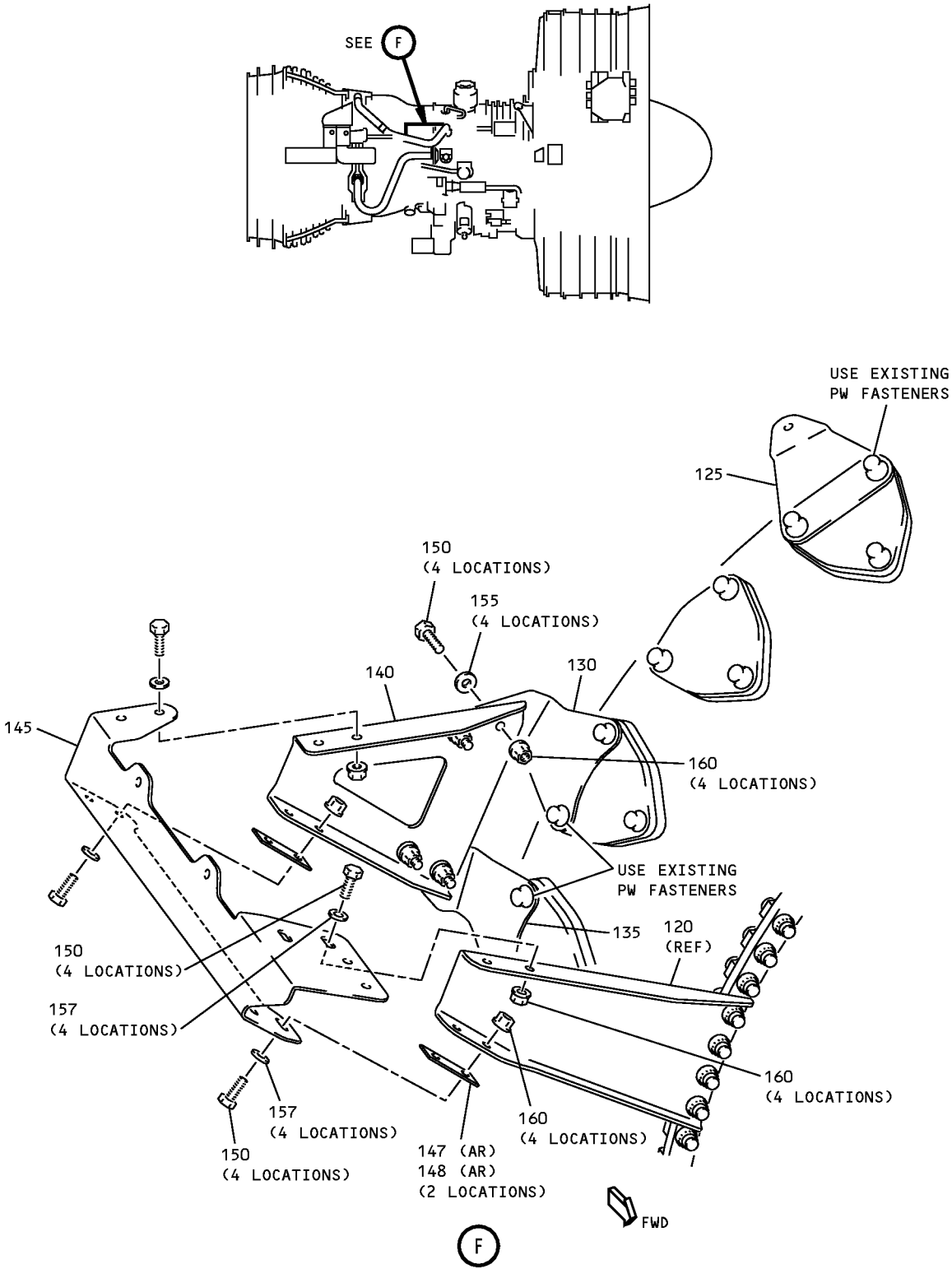
**71-00-02**

P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 6)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 6)</b> <u>ENGINES WITH BOEING BRACKETS:</u>  ATTACH BRACKETS (125 THRU 135) TO ENGINE CASE AT 1:00 THRU 2:00 POSITION USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. INSTALL BRACKET (135) BENEATH PW BRACKET. TIGHTEN TO 85-95 LB-IN.  POSITION BRACKETS (140, 145) BETWEEN BRACKETS (120, 130, 135) AND SHIM (147, 148) AS REQUIRED TO PROVIDE 0.020 IN. MAX GAP. SECURE WITH FASTENERS (150 THRU 160).				
125	332T4922-227	. BRACKET (1 REQD) <sup>*[3]</sup>			LTD	-
130	332T4922-246	. BRACKET (1 REQD) <sup>*[3]</sup>			LTD	-
135	332T4922-247	. BRACKET (1 REQD) <sup>*[3]</sup>			LTD	-
140	332T4922-661	. BRACKET			LTD	1
140	332T4922-304	. BRACKET (REPLACED BY 332T4922-661)				-
145	332T4925-10	. BRACKET ASSY				1
147	332T4922-475	. SHIM (0.032 IN)				AR
148	332T4922-476	. SHIM (0.050 IN)				AR
150	BACB30LM3U2	. BOLT				12
155	NAS1149C0332R	. WASHER				4
157	NAS1149C0363R	. WASHER				8
160	BACN10YR3C	. NUT				12
		*[3] REPLD BY PW BRKT ON LATER ENGINES				

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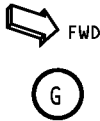
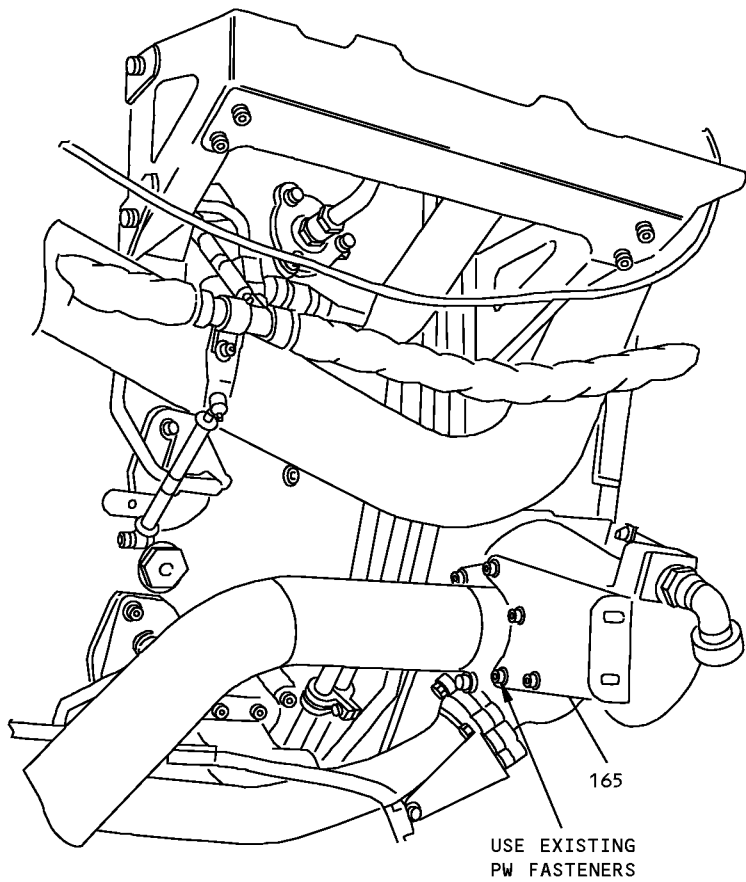
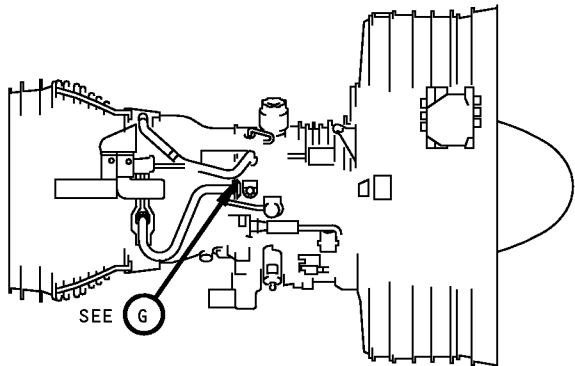
P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 7)**

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P/P BUILDUP FIGURE 3-4  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<p><b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b>  <b>(FIGURE 3-4, SHEET 7)</b></p> <p>ATTACH BRACKET (165) TO DUCT FLANGE USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 62-72 LB-IN.</p>				
165	332T4922-248	. BRACKET				1

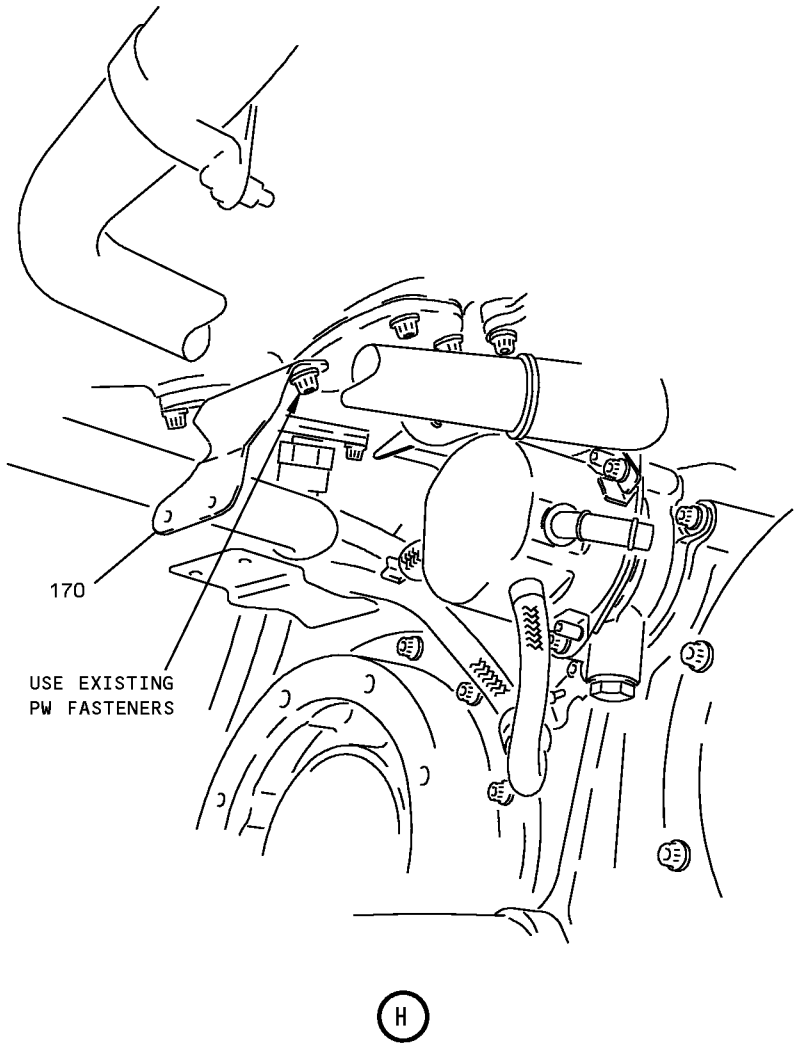
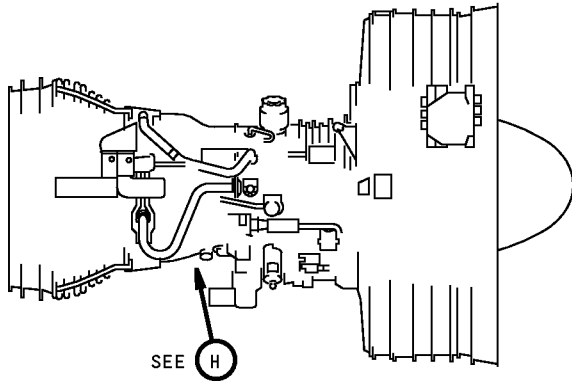
**71-00-02**

P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL



Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 8)

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P/P BUILDUP FIGURE 3-4  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<p><b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b>  <b>(FIGURE 3-4, SHEET 8)</b></p> <p>ATTACH BRACKET (170) TO ENGINE CASE USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 85-95 LB-IN.</p> <p>. BRACKET<sup>[1]</sup></p> <p>*[1] WITHOUT OIL PUMP PULSE DAMPENER</p>				1
170	332T4521-39					

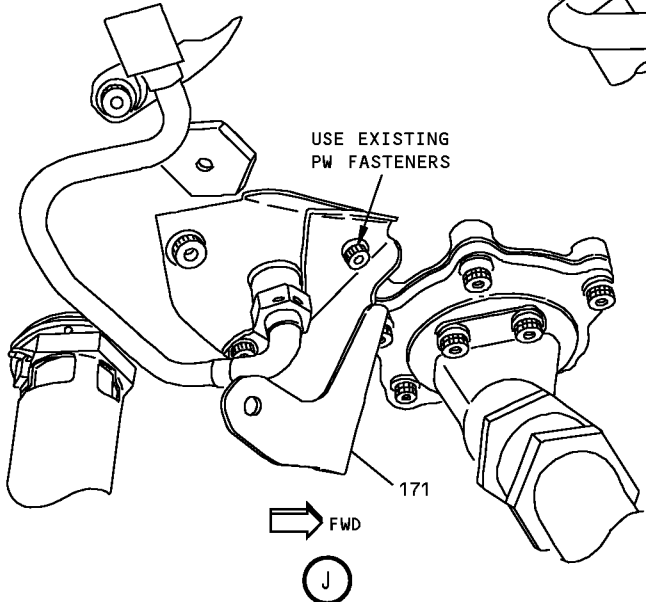
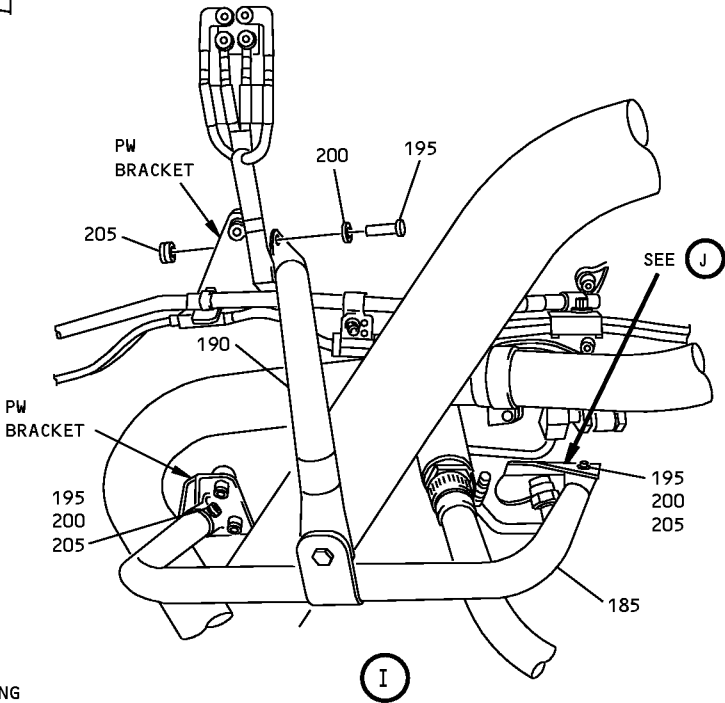
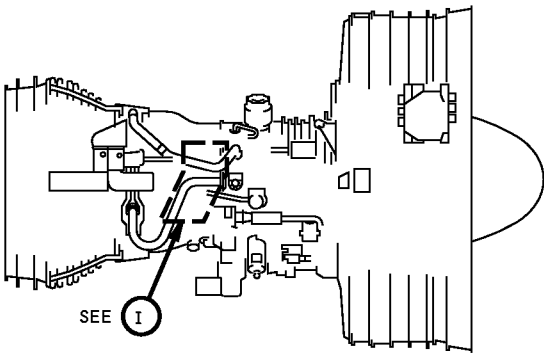
**71-00-02**

P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL



Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 9)

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P/P BUILDUP FIGURE 3-4  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 9)</b>  <u>ENGINES WITH BOEING BRACKET;</u>  ATTACH BRACKET (171) TO ENGINE CASE USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 85-95 LB-IN.  . BRACKET (1 REQD) <sup>*[1]</sup>  POSITION SUPPORT TUBE (185, 190) AND ATTACH TO BRACKETS USING FASTENERS (195 THRU 205).  . SUPPORT TUBE . SUPPORT TUBE . SUPPORT TUBE . TUBE (REPLACED BY 332T4921-296) . TUBE (REPLACED BY 332T4921-296) . BOLT . WASHER . NUT  *[1] REPLD BY PW BRKT ON LATER ENGINES				
171	332T4521-38				LTD	-
185	332T4921-190					1
185	332T4921-136				OPT	-
190	332T4921-296					1
190	332T4921-188				LTD	-
190	332T4921-172				LTD	-
195	BACB30LM3U3					3
200	NAS1149C0363R					3
205	BACN10YR3C					3

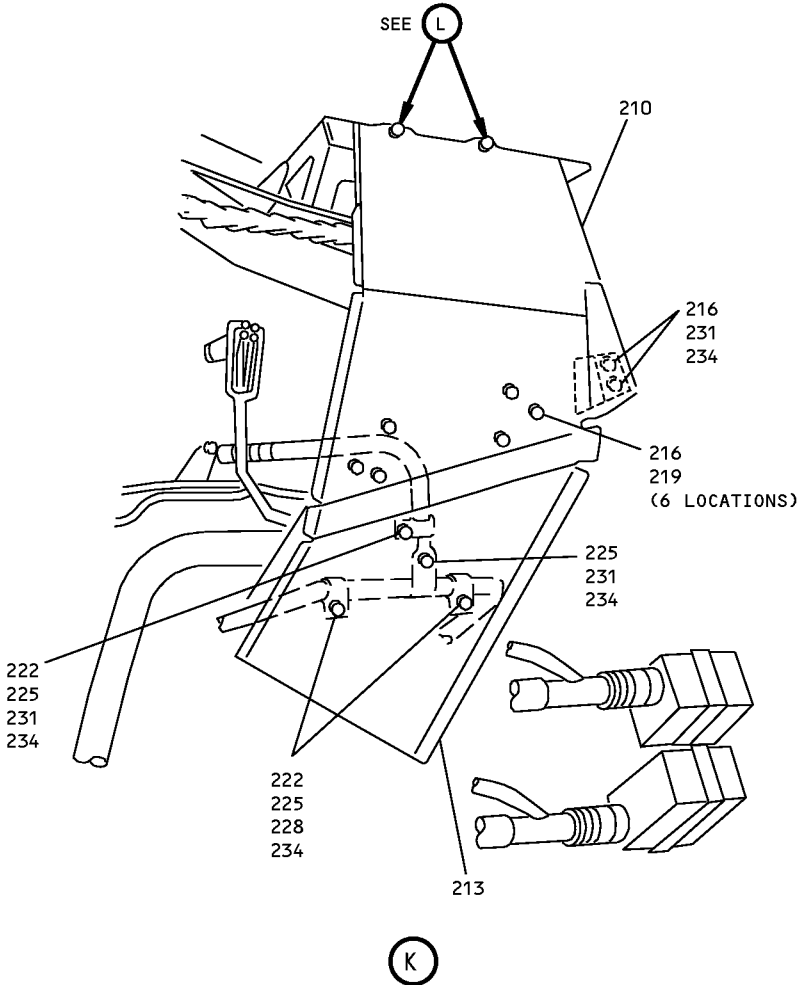
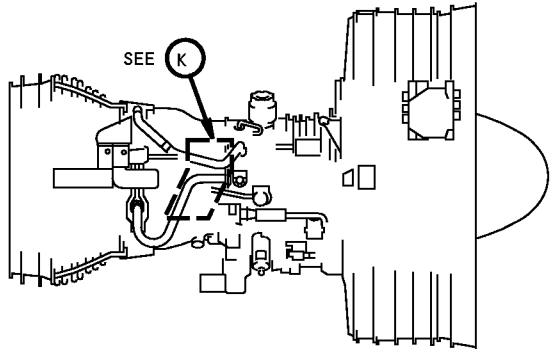
**71-00-02**

P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case**  
**Figure 3-4 (Sheet 10)**

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE (FIGURE 3-4, SHEET 10)</b>  POSITION SHIELDS (210, 213) ON ENGINE USING FASTENERS (216 THRU 234).				
210	332T4923-11	. SHIELD				1
210	332T4923-8	. SHIELD (REPLACED BY 332T4923-11)			LTD	-
210	332T4923-4	. SHIELD (REPLACED BY 332T4923-8)			LTD	-
213	332T4923-9	. SHIELD				1
213	332T4923-5	. SHIELD (REPLACED BY 332T4923-9)			LTD	-
216	BACB30LM3U2	. BOLT				8
219	BACW10BP3ACU	. WASHER (CSK TOWARDS BOLT HEAD)				6
222	BACC10DW12S	. CLAMP				3
225	BACB30LM3U3	. BOLT				4
228	NAS1149C0332R	. WASHER				2
231	BACW10P5CC	. WASHER				4
234	BACN10YR3C	. NUT				6

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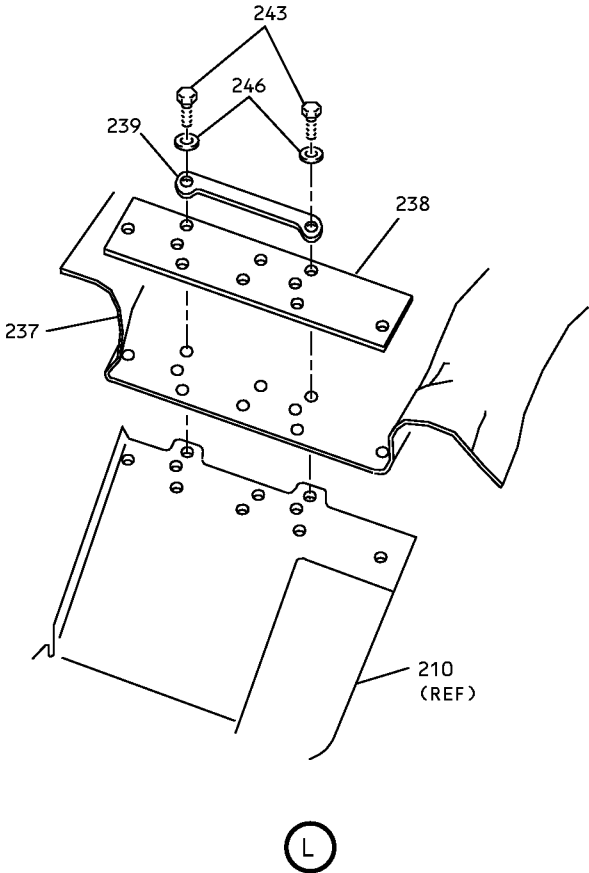
P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case**  
**Figure 3-4 (Sheet 11)**

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P/P BUILDUP FIGURE 3-4  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 11)</b> POSITION BLANKET (237) ON SHIELD (210) AND SECURE USING ITEMS (238 THRU 246).				
237	310T4016-24	. BLANKET				1
238	310T4015-5	. PAD				1
239	310T4015-7	. SPACER				1
243	BACS12HN3U10	. SCREW				2
246	NAS1149C0316R	. WASHER				2

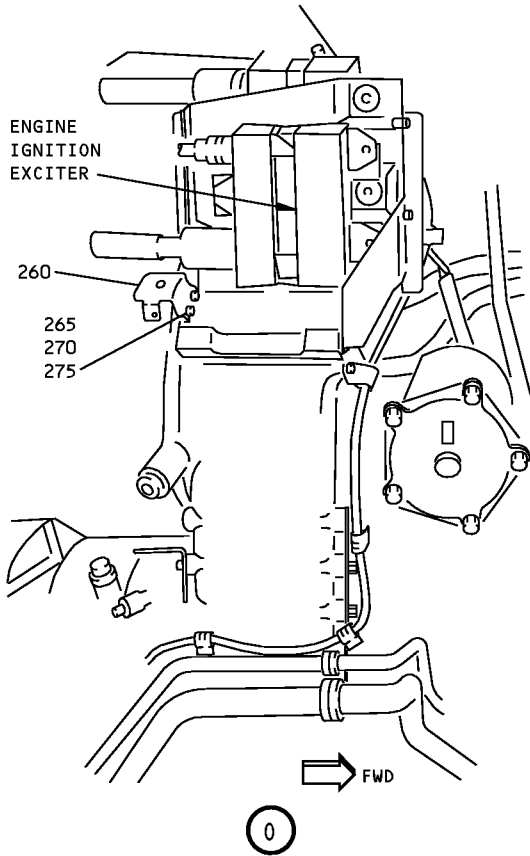
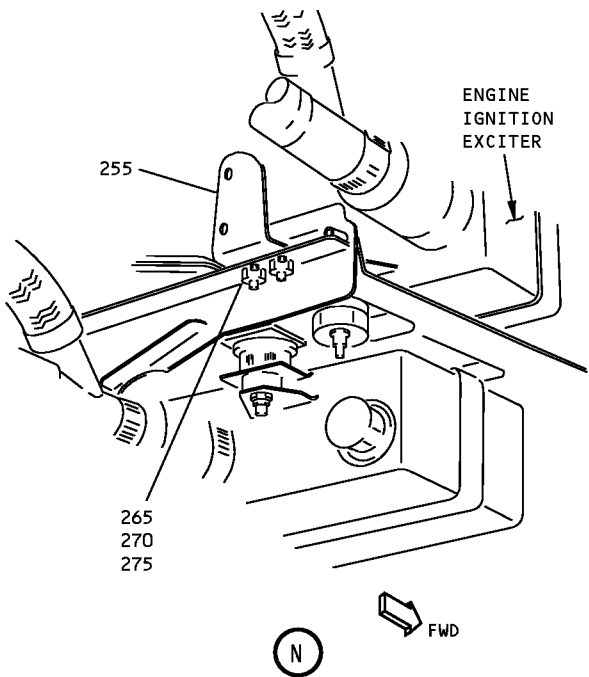
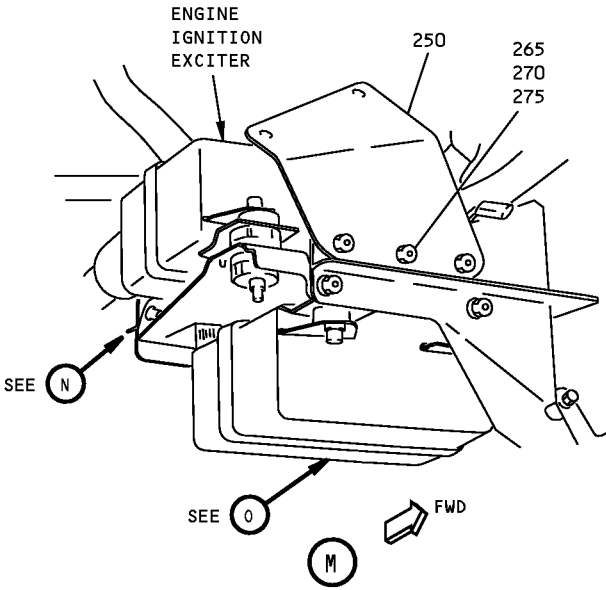
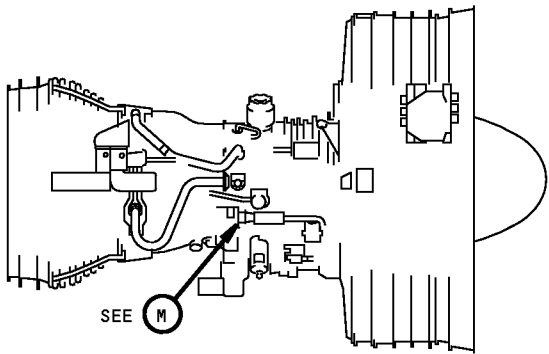
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P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL



Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 12)

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE (FIGURE 3-4, SHEET 12)</b>  ATTACH BRACKETS (250 THRU 260) TO ENGINE IGNITION EXCITER BRACKET USING FASTENERS (265 THRU 275).				
250	332W3922-254	. BRACKET				1
250	332T4922-262	. BRACKET (REPLACED BY 332W3922-254)			LTD	-
255	332T4925-31	. BRACKET		AFT		1
255	332T4922-118	. BRACKET (REPLACED BY 332T4925-31)		AFT	LTD	-
260	332T4922-439	. BRACKET		AFT		1
265	BACB30LM3U2	. BOLT				7
270	NAS1149C0332R	. WASHER				7
275	BACN10YR3C	. NUT				7

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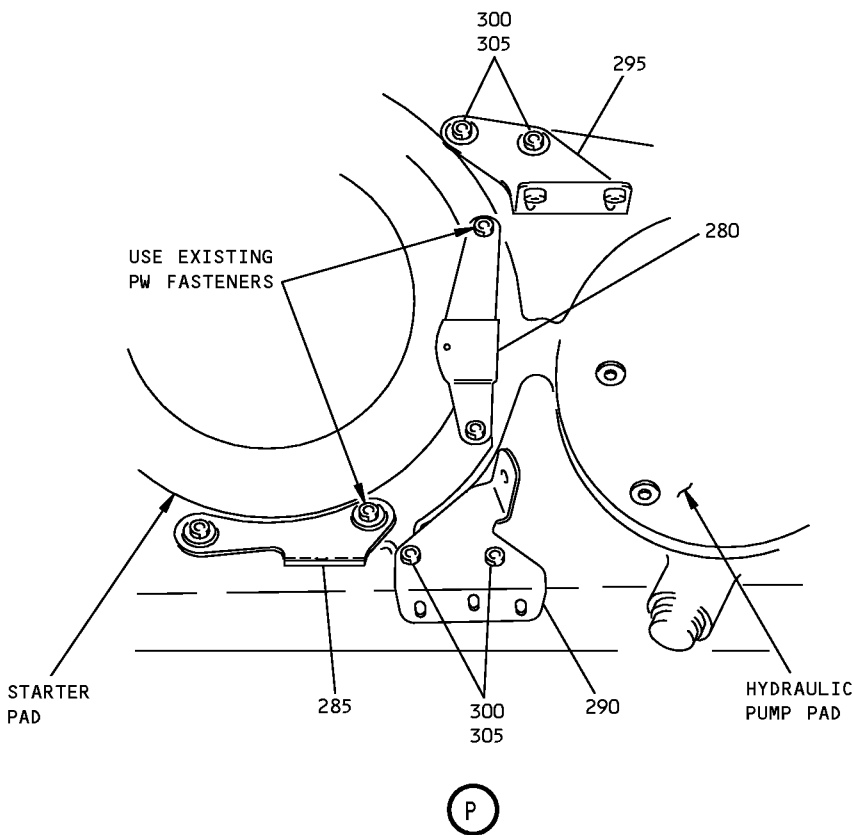
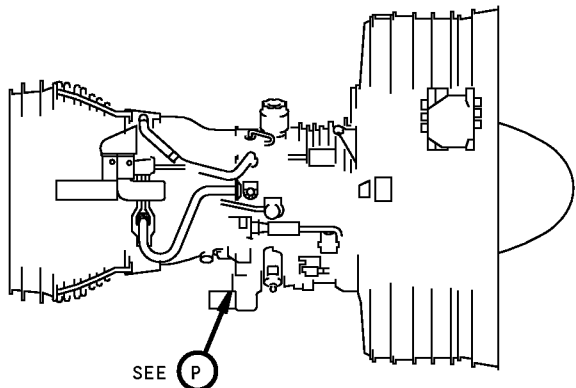
P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 13)**

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P/P BUILDUP FIGURE 3-4  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 13)</b>  ATTACH BRACKETS (280 THRU 285) TO STARTER PAD ON AFT SIDE OF GEARBOX USING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO PW BOLT THREADS PRIOR TO INSTALLATION. USE WET primer, C00259 (C2) ON FAYING SURFACES BETWEEN BRACKETS AND STARTER PAD. TIGHTEN TO 160-175 LB-IN.				
280	332T4922-344	. BRACKET				1
285	332T4922-659	. BRACKET				1
285	332T4922-91	. BRACKET (REPLACED BY 332T4922-659)			LTD	-
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND			CON	AR
C2	C00259	. PRIMER			CON	AR
		APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO BOLTS (300) THREADS. ATTACH BRACKETS (290, 295) TO AFT SIDE OF GEARBOX USING FASTENERS (300, 305).				
290	332T4922-437	. BRACKET (1 REQD) <sup>[1]</sup>			LTD	-
295	332T4922-369	. BRACKET				1
300	BACB30LM4-1	. BOLT <sup>[2]</sup>				2
300	BACB30LM4-1	. BOLT (4 REQD) <sup>[1]</sup>			LTD	-
305	BACW10BP4ACU	. WASHER (POSITION COUNTERSINK TOWARDS BOLT HEAD) <sup>[2]</sup>				2
305	BACW10BP4ACU	. WASHER (4 REQD) (POSITION CSK TOWARDS BOLT HEAD) <sup>[1]</sup>			LTD	-
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND			CON	AR
		*[1] ON ENGINES WITHOUT FUEL PRESSURE XMTR HOSE SUPPORT CLAMP (PRE-SB 767-73-0032)				
		*[2] ON ENGINES WITH FUEL PRESSURE XMTR HOSE SUPPORT CLAMP (POST-SB 767-73-0032)				

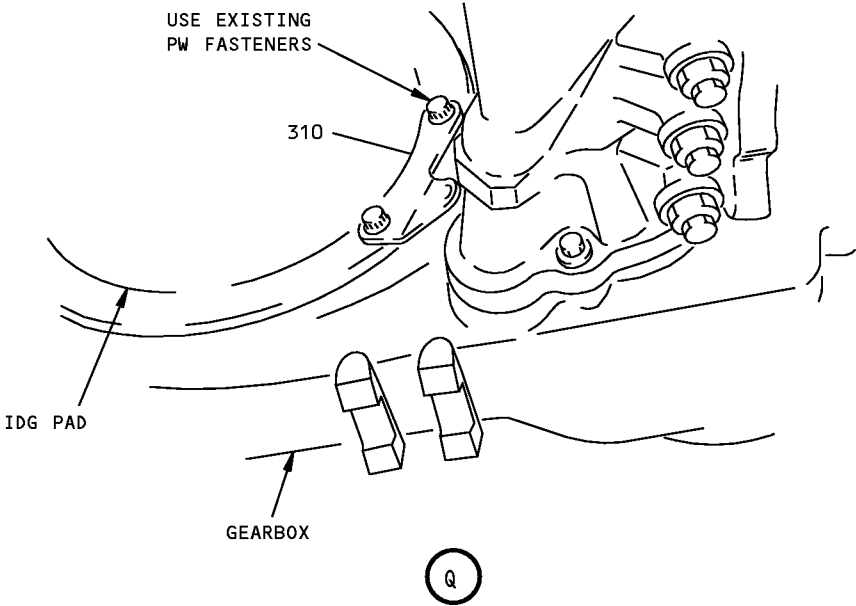
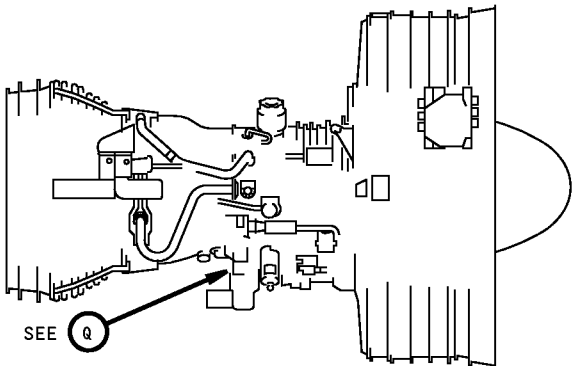
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P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL



Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 14)

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<p><b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b>  <b>(FIGURE 3-4, SHEET 14)</b></p> <p>ATTACH BRACKET (310) TO IDG PAD ON AFT SIDE OF GEARBOX USING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. USE WET primer, C00259 (C2) ON FAYING SURFACES BETWEEN BRACKET AND IDG PAD. TIGHTEN TO 125-140 LB-IN.</p>				
310	332T4922-166	. BRACKET			CON	1
C2	C00259	. PRIMER				AR

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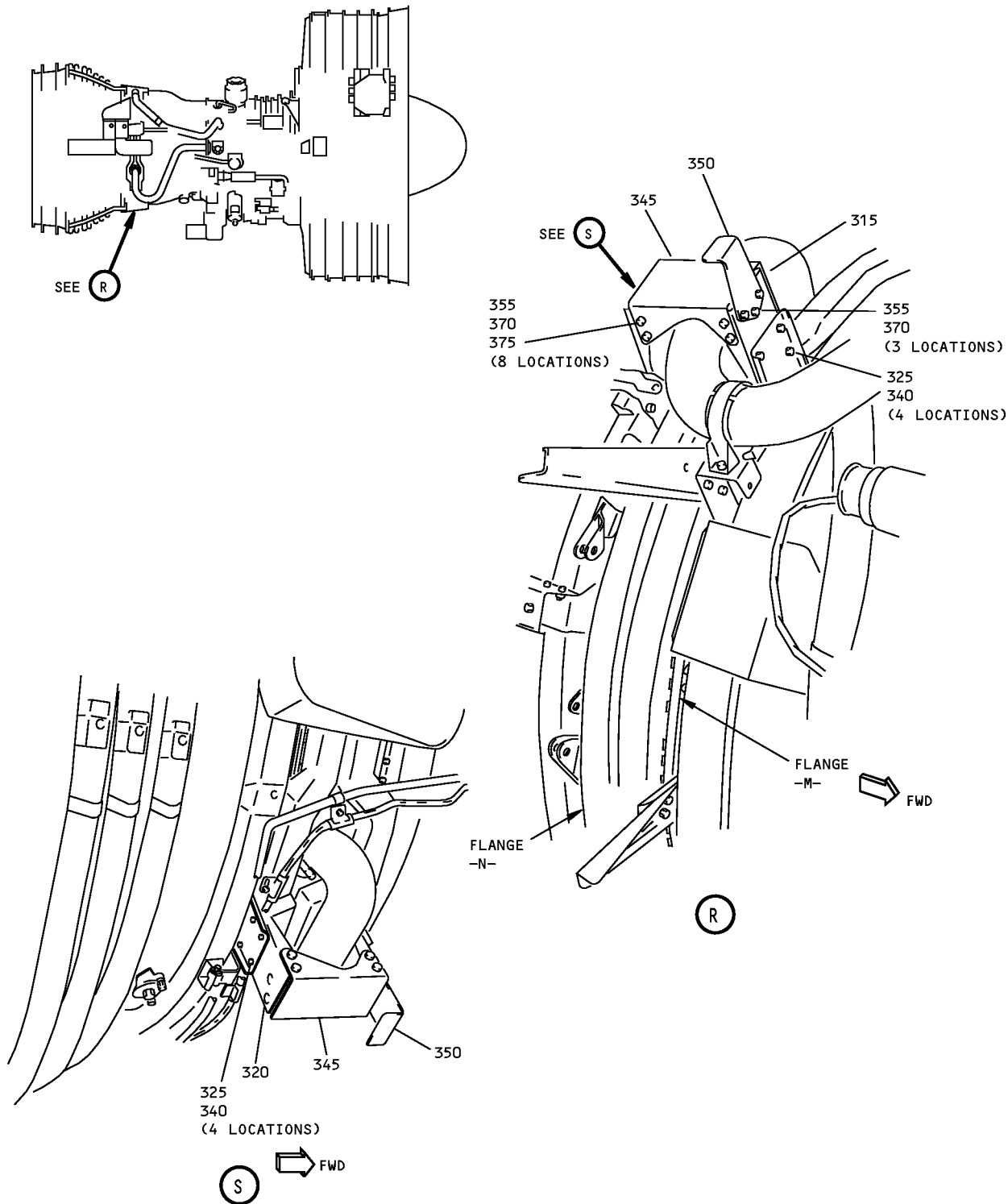
P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 15)**

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P/P BUILDUP FIGURE 3-4  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE (FIGURE 3-4, SHEET 15)</b>  ATTACH BRACKETS (315, 320) TO ENGINE BRACKET FLANGES M & N AT 4:00 POSITION USING FASTENERS (325 THRU 340).  SECURE BRACKETS (345, 350) TO BRACKETS (315, 320) USING FASTENERS (355 THRU 375).				
315	332T4922-701	. BRACKET	AFT	AFT		1
315	332T4922-414	. BRACKET (REPLACED BY 332T4922-701)	AFT	AFT	LTD	-
320	332T4922-632	. BRACKET	FWD	FWD		1
320	332T4922-286	. BRACKET (REPLACED BY 332T4922-632)	FWD	FWD	LTD	-
325	BACB30LM3U3	. BOLT				8
340	BACW10BP3ACU	. WASHER (CSK TOWARDS BOLT HEAD)				8
345	332T4922-416	. BRACKET				1
350	332T4922-413	. BRACKET				1
355	BACB30LM3U3	. BOLT				11
370	BACW10BP3ACU	. WASHER (CSK TOWARDS BOLT HEAD)				11
375	BACN10YR3C	. NUT				8

**71-00-02**

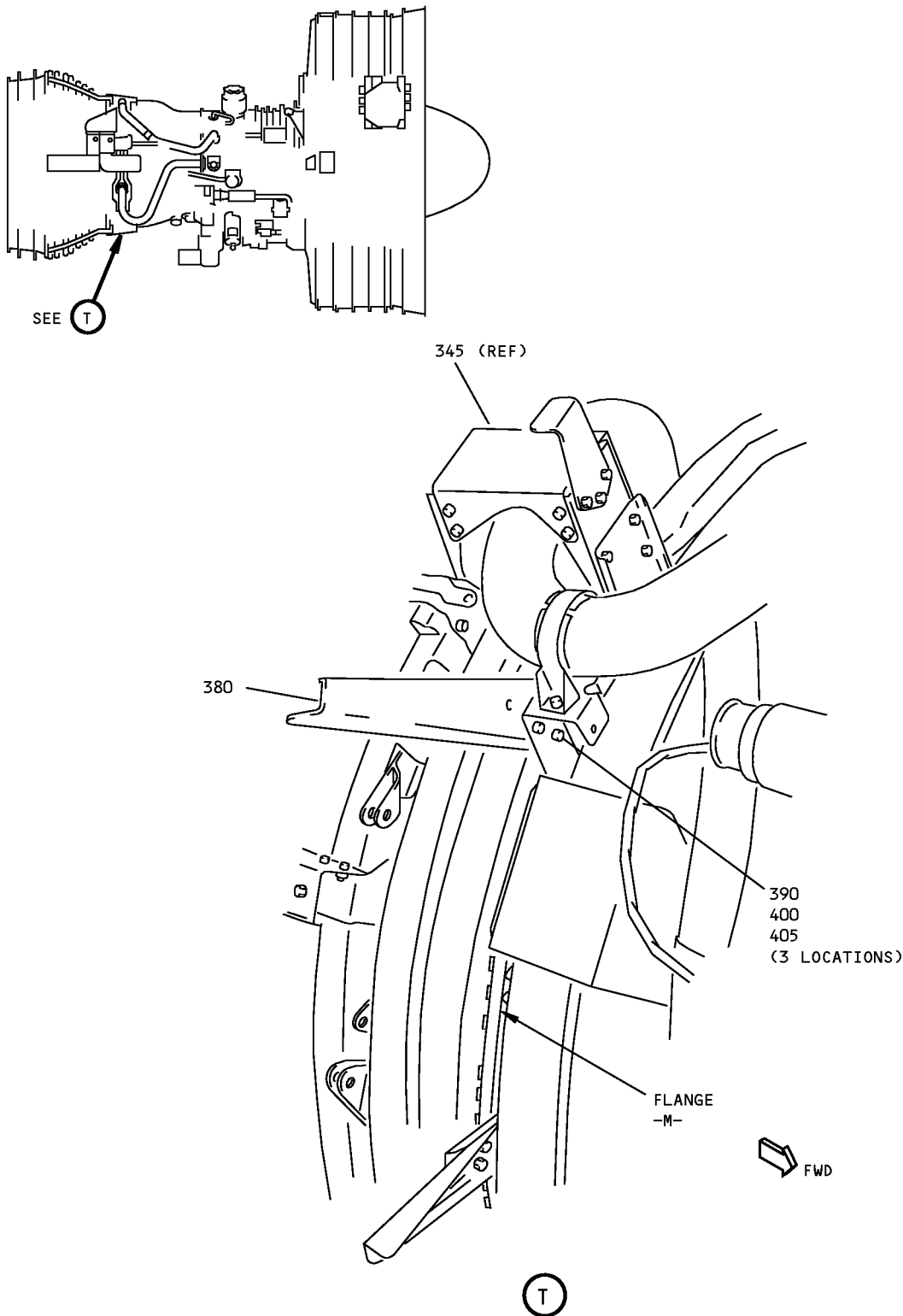
P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL



Bracket Installation - Right Side Core Case  
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P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 16)</b>  ATTACH BRACKET (380) TO ENGINE BRACKET ON FLANGE M AT 4:30 POSITION USING FASTENERS (390 THRU 405).				
380	332T4922-347	. BRACKET	AFT			1
390	BACB30LM3U3	. BOLT				3
400	NAS1149C0332R	. WASHER				3
405	BACN10YR3C	. NUT				3

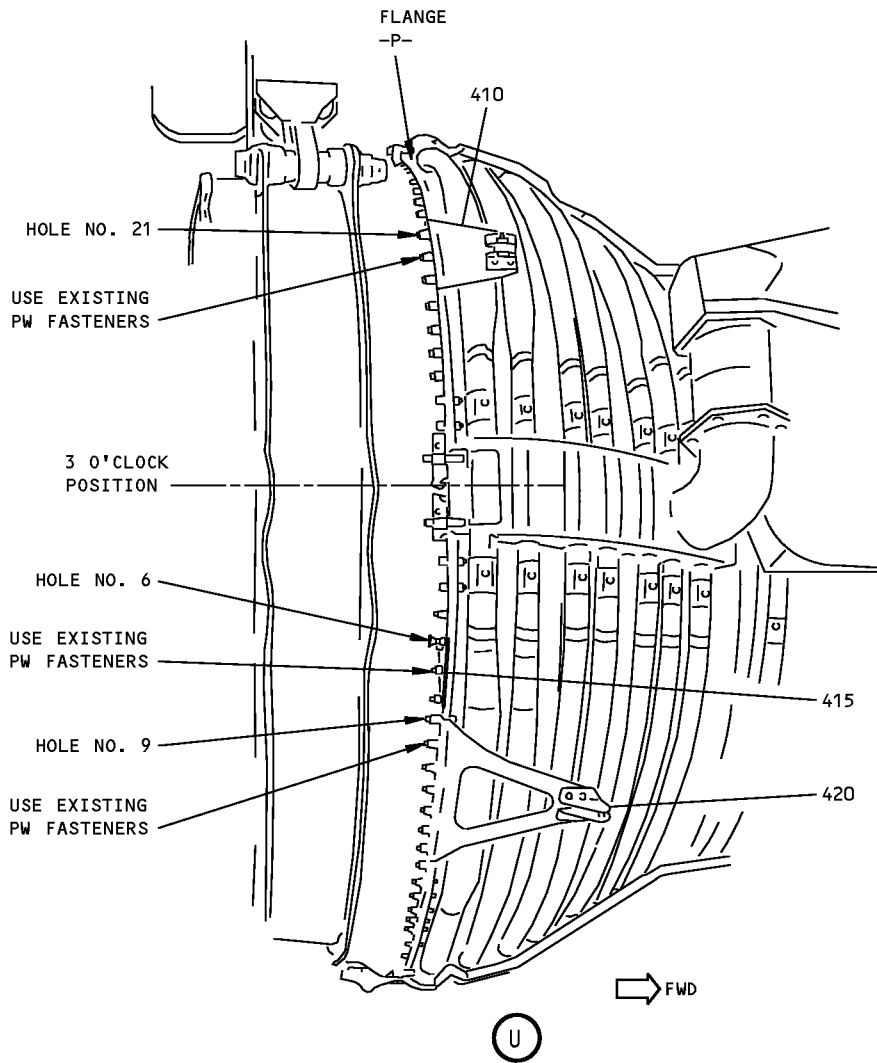
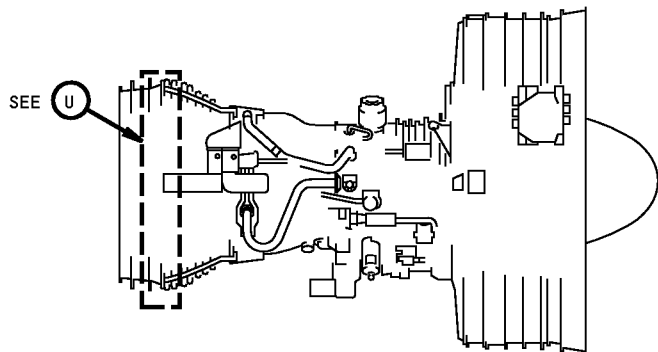
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P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 17)**

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P/P BUILDUP FIGURE 3-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE (FIGURE 3-4, SHEET 17)</b>  ATTACH BRACKETS (410, 415, 420) TO ENGINE FLANGE P AT 2:00 THRU 4:30 POSITION USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO (180-200 LB-IN).				
410	332T4924-1	. BRACKET	AFT	FWD		1
415	332T4922-630	. BRACKET	AFT	AFT		1
415	332T4922-610	. BRACKET (REPLACED BY 332T4922-630)	AFT	AFT	LTD	-
415	332T4922-370	. BRACKET (REPLACED BY 332T4922-610)	AFT	AFT	LTD	-
415	332T4922-371	. BRACKET (REPLACED BY 332T4922-370)	AFT	AFT	LTD	-
420	332T4315-9	. BRACKET	AFT	FWD		1
420	332T4315-1	. BRACKET (REPLACED BY 332T4315-9)	AFT	FWD	LTD	-

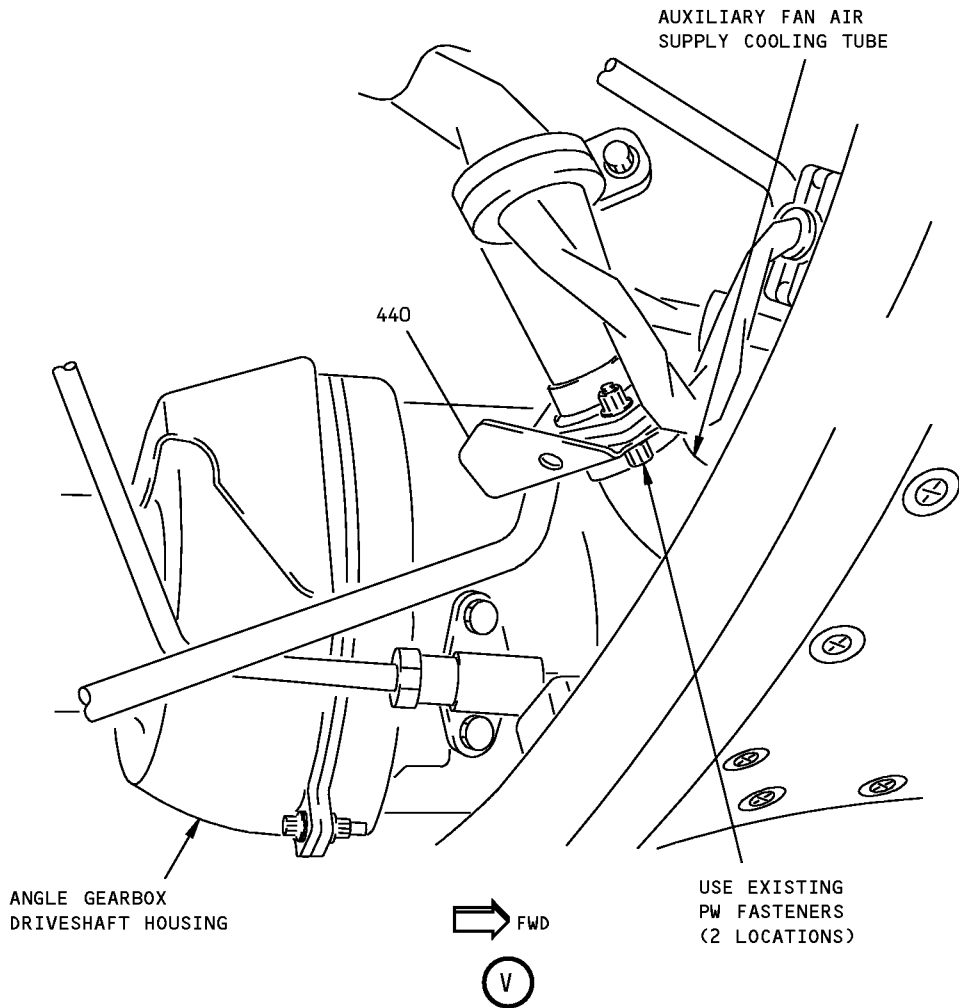
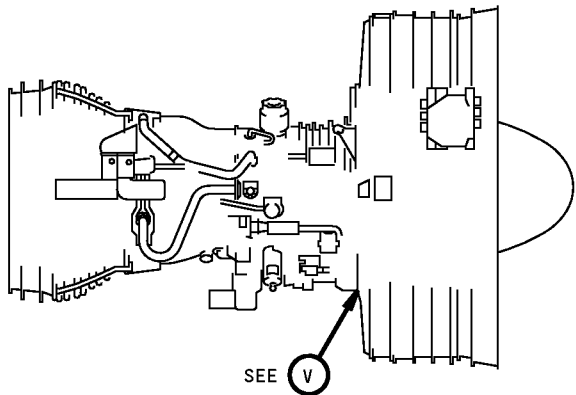
**71-00-02**

P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 18)**

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P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<p><b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b>  <b>(FIGURE 3-4, SHEET 18)</b></p> <p>ATTACH BRACKET (440) TO UNDERSIDE OF AUXILIARY FAN AIR SUPPLY COOLING TUBE FLANGE USING EXISTING PW FASTENERS AFTER DISCARDING YELLOW SPACERS. TIGHTEN TO 85-95 LB-IN.</p>				
440	332T4922-461	. BRACKET				1

**71-00-02**

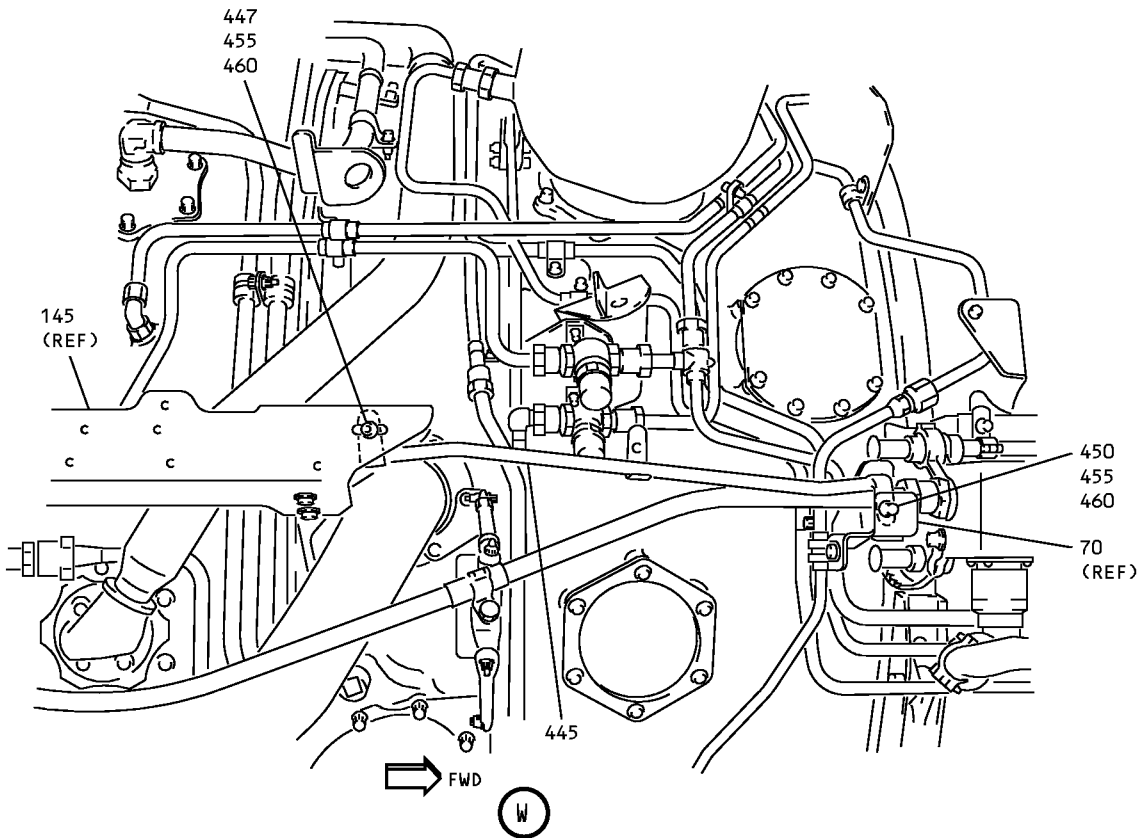
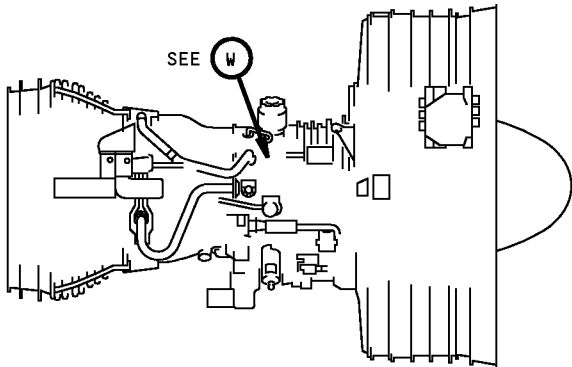
P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case**  
**Figure 3-4 (Sheet 19)**

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P/P BUILDUP FIGURE 3-4  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 19)</b>  ATTACH BRACKET (445) BETWEEN BRACKETS (70, 145) USING FASTENERS (447 THRU 460).				
445	332T4921-208	. TUBE, SUPPORT				1
447	BACB30LM3U3	. BOLT				1
450	BACB30LM3U4	. BOLT				1
455	NAS1149C0332R	. WASHER				2
460	BACN10YR3C	. NUT				2

**71-00-02**

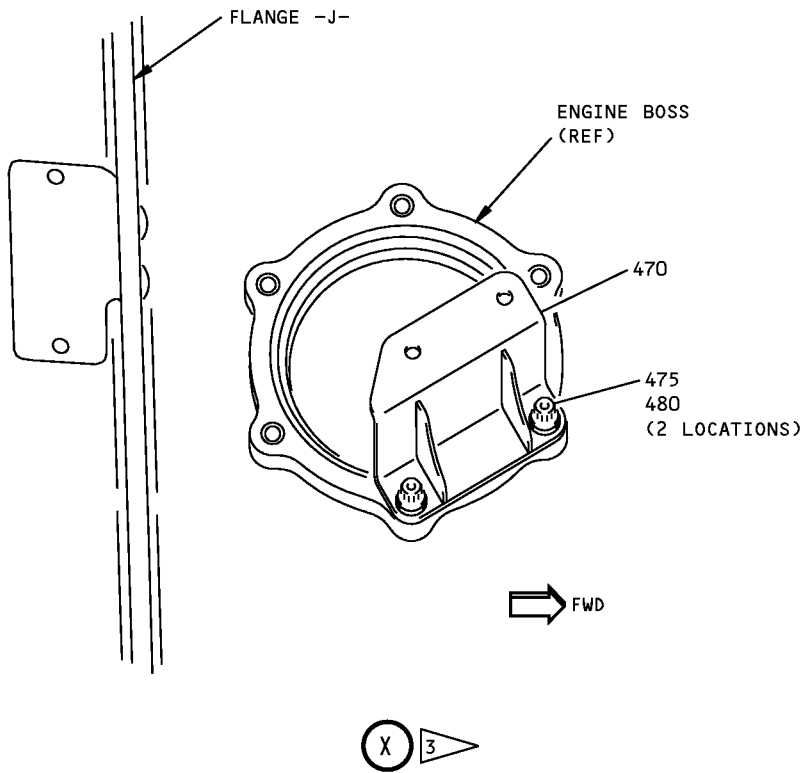
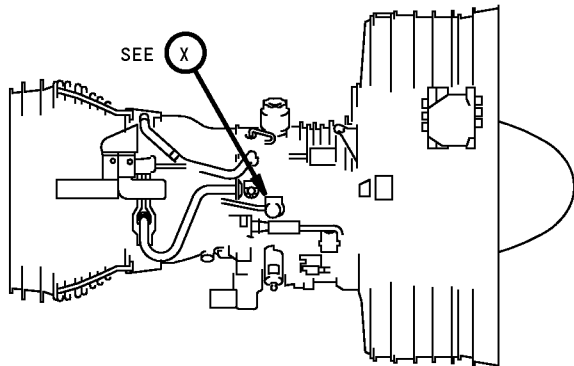
P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



3 USE WITH FIG. 4-4, CONFIG D

**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 20)**

POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 20)</b>  APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO BOLTS (475) THREADS. ATTACH BRACKET (470) TO ENGINE BOSS USING BOLTS (475) AND WASHERS (480). TIGHTEN BOLTS TO 85-95 LB-IN.				
470	332T4921-338	. BRACKET <sup>[1]</sup>				1
475	BACB30ZF4-08	. BOLT <sup>[1]</sup>				2
475	BACB30ZF4-11	. BOLT (REPLACED BY BACB30ZF4-08)			LTD	-
480	NAS1149C0432R	. WASHER <sup>[1]</sup>				2
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND			CON	AR
		*[1] PREFERRED STRUT DRAIN CONFIG				

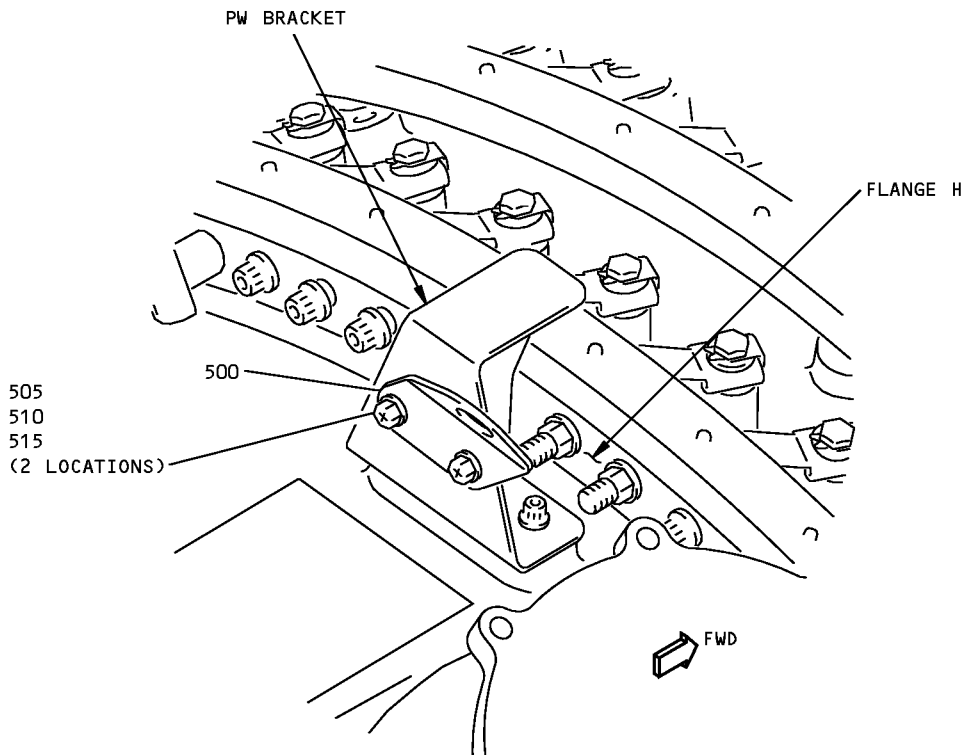
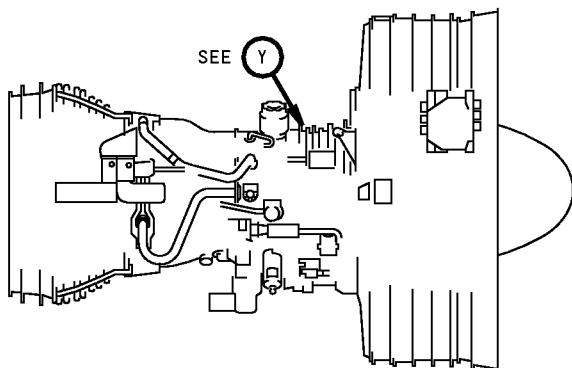
**71-00-02**

P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



ENGINES WITH FIG. 4-4, ITEM 320 ELBOW INSTALLED



**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 21)**

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P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<p><b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE (FIGURE 3-4, SHEET 21)</b></p> <p><u>ENGINES WITH FIGURE 4-4, ITEM 320 ELBOW INSTALLED</u></p> <p>ATTACH BRACKET (500) TO PW BRACKET ON ENGINE FLANGE H AT 12:00 POSITION USING SCREWS (505), WASHERS (510) AND NUTS (515). TIGHTEN TO 25-35 LB-IN.</p>				
500	332T4922-698	. BRACKET	AFT	AFT		1
505	BACS12HN3U7	. SCREW				2
510	NAS1149C0332R	. WASHER				2
515	BACN10YR3C	. NUT				2

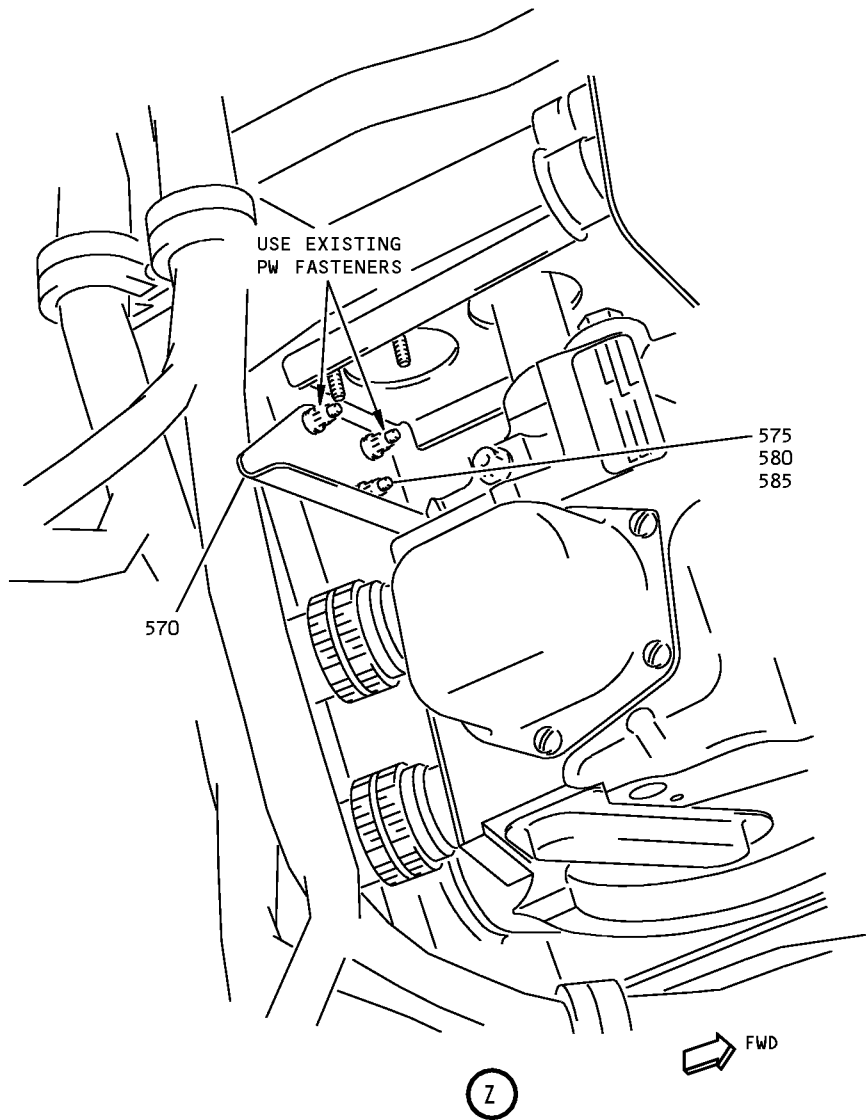
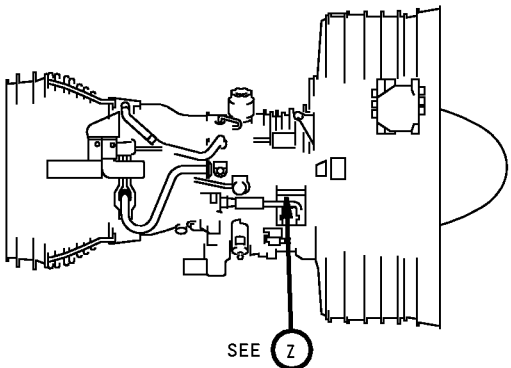
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P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case**  
**Figure 3-4 (Sheet 22)**

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P/P BUILDUP FIGURE 3-4

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 22)</b> <u>ENGINES WITH BOEING BRACKET:</u>  ATTACH BRACKET (570) TO PW SUPPORT BRACKET ASSY USING FASTENERS (575 THRU 585) AND EXISTING PW FASTENERS. TIGHTEN NUT (585) TO 65-100 LB-IN. TIGHTEN PW FASTENERS TO 125-140 LB-IN. . BRACKET (1 REQD) <sup>*[1]</sup> . BOLT (1 REQD) . WASHER (1 REQD) . NUT (1 REQD)  *[1] REPLD BY PW BRKT ON LATER ENGINES				
570	332T4925-18				LTD	-
575	BACB30LM3U2				LTD	-
580	BACW10BN4UC				LTD	-
585	BACN10YR4C				LTD	-

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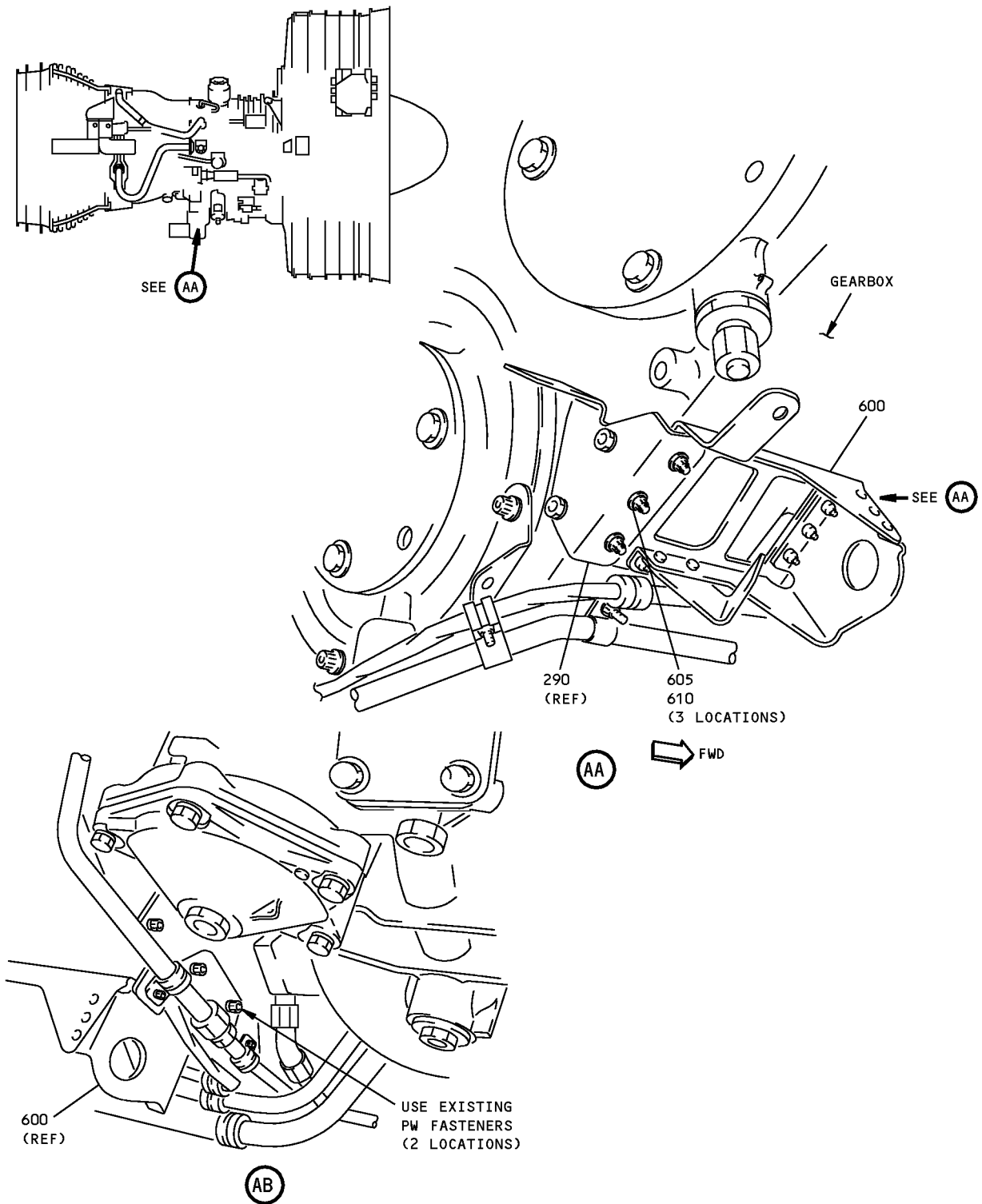
P/P BUILDUP FIGURE 3-4

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**POWERPLANT BUILDUP MANUAL**



**Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 23)**

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POWERPLANT BUILDUP MANUAL

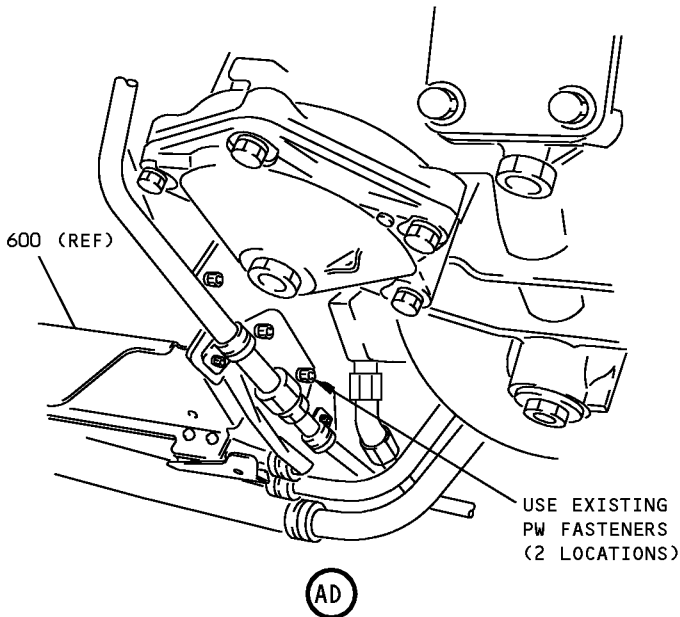
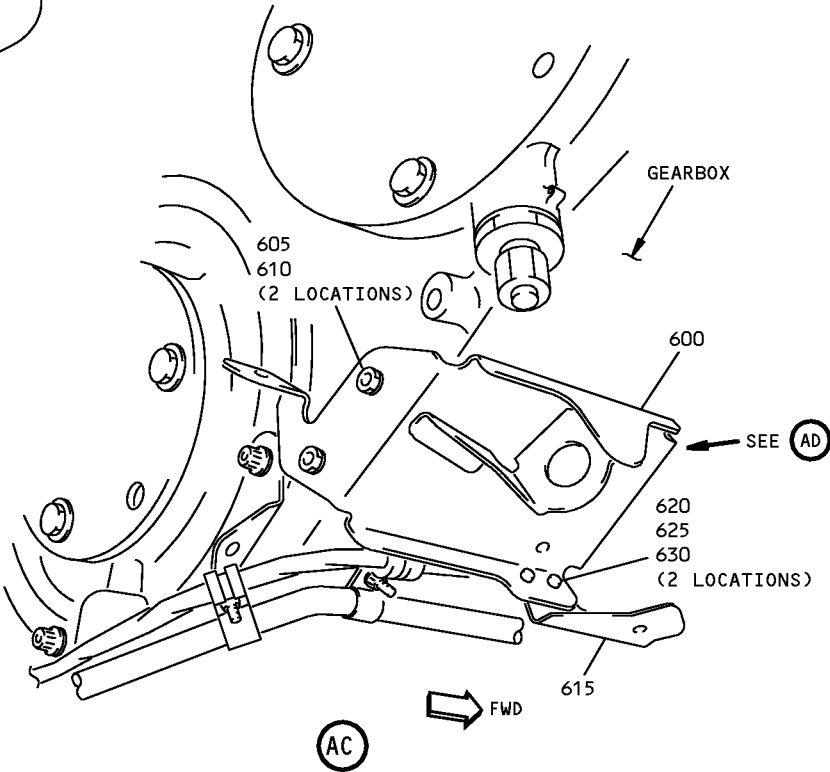
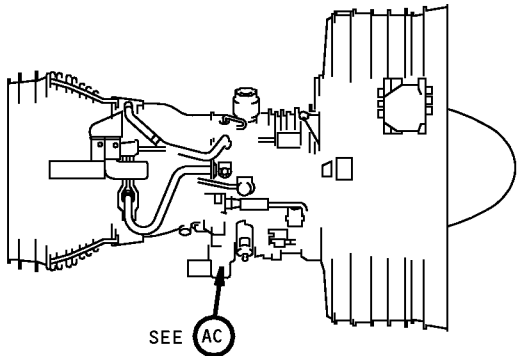
ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 23)</b>  ATTACH BRACKET (600) TO BRACKET (290) USING FASTENERS (605 THRU 610). INSTALL BRACKET (600) ON MAIN GEARBOX USING EXISTING PW FASTENERS. TIGHTEN PW FASTENERS TO 85-95 LB-IN.  . BRACKET ASSY (1 REQD) <sup>[1]</sup> . WASHER (3 REQD) <sup>[1]</sup> . NUT (3 REQD) <sup>[1]</sup>  *[1] ON ENGINES WITHOUT FUEL PRESSURE XMTR HOSE SUPPORT CLAMP (PRE-SB 767-73-0032)				
600	332T4922-478				LTD	-
605	NAS1149C0332R				LTD	-
610	BACN10YR3CM				LTD	-

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P/P BUILDUP FIGURE 3-4

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Bracket Installation - Right Side Core Case  
Figure 3-4 (Sheet 24)

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	BRACKET LOCATION AND ORIENTATION			QTY
			BRKT OR FLG SIDE	ANGLE FACES	UC	
3-4		<b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE</b> <b>(FIGURE 3-4, SHEET 24)</b>  ATTACH BRACKET (600) ON MAIN GEARBOX USING FASTENERS (605 THRU 610) AND EXISTING PW FASTENERS. TIGHTEN PW FASTENERS TO 85-95 LB-IN.  . BRACKET <sup>[2]</sup> . BRKT (REPLACED BY 332T4925-40) <sup>[2]</sup> . BOLT <sup>[2]</sup> . WASHER <sup>[2]</sup>  ATTACH BRACKET (615) TO BRACKET (600) USING FASTENERS (620 THRU 630). . BRACKET <sup>[2]</sup> . BOLT <sup>[2]</sup> . WASHER <sup>[2]</sup> . NUT <sup>[2]</sup>  *[2] ON ENGINES WITH FUEL PRESSURE XMTR HOSE SUPPORT CLAMP (POST-SB 767-73-0032)			LTD	1 - 2 2  1 2 2 2
600	332T4925-40	. BRACKET <sup>[2]</sup>				1
600	332T4925-13	. BRKT (REPLACED BY 332T4925-40) <sup>[2]</sup>				-
605	BACB30LM4-1	. BOLT <sup>[2]</sup>				2
610	BACW10BP4ACU	. WASHER <sup>[2]</sup>				2
615	332T4925-16	. BRACKET <sup>[2]</sup>				1
620	BACB30LM3U2	. BOLT <sup>[2]</sup>				2
625	NAS1149C0332R	. WASHER <sup>[2]</sup>				2
630	BACN10YR3C	. NUT <sup>[2]</sup>				2

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P/P BUILDUP FIGURE 3-4

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FIGURE 4-1

# DRAIN COLLECTOR INSTALLATION

REF QEC TASK NO.: 4

REF DWG: 332T4712

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC SUBKIT NO. 110.

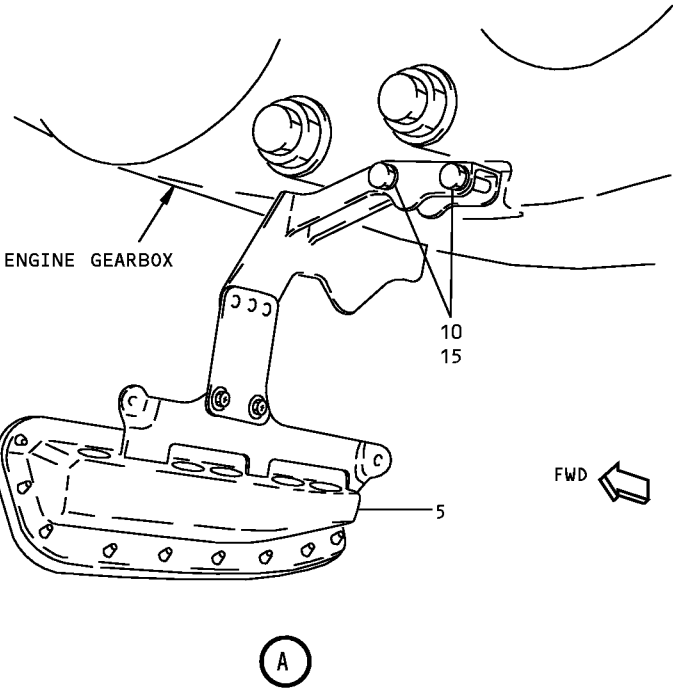
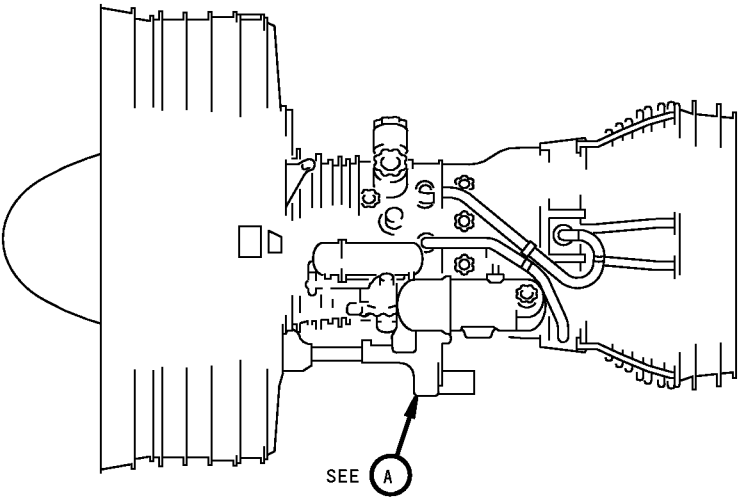
**71-00-02**

P/P BUILDUP FIGURE 4-1

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POWERPLANT BUILDUP MANUAL**



**Drain Collector Installation  
Figure 4-1 (Sheet 1)**

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P/P BUILDUP FIGURE 4-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-1		<b>DRAIN COLLECTOR INSTALLATION (FIGURE 4-1, SHEET 1)</b>  INSTALL DRAIN COLLECTOR (5) ON FORWARD SIDE OF MAIN GEARBOX USING BOLTS (10) AND WASHERS (15).		
5	332T4712-21	. COLLECTOR ASSY		1
5	332T4712-19	. COLLECTOR ASSY (REPLACED BY 332T4712-21)	LTD	-
5	332T4712-17	. COLLECTOR ASSY (REPLACED BY 332T4712-19)	LTD	-
5	332T4712-15	. COLLECTOR ASSY (REPLACED BY 332T4712-17)	LTD	-
5	332T4712-13	. COLLECTOR ASSY (REPLACED BY 332T4712-15)	LTD	-
5	332T4712-12	. COLLECTOR ASSY (REPLACED BY 332T4712-13)	LTD	-
10	BACB30LM4-16	. BOLT		2
15	NAS1149C0463R	. WASHER		2

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P/P BUILDUP FIGURE 4-1

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FIGURE 4-2

**ENGINE OVERBOARD DRAIN INSTALLATION -  
LEFT SIDE**

REF QEC TASK NO.: 4

REF DWG: 332T4710  
332T4150

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

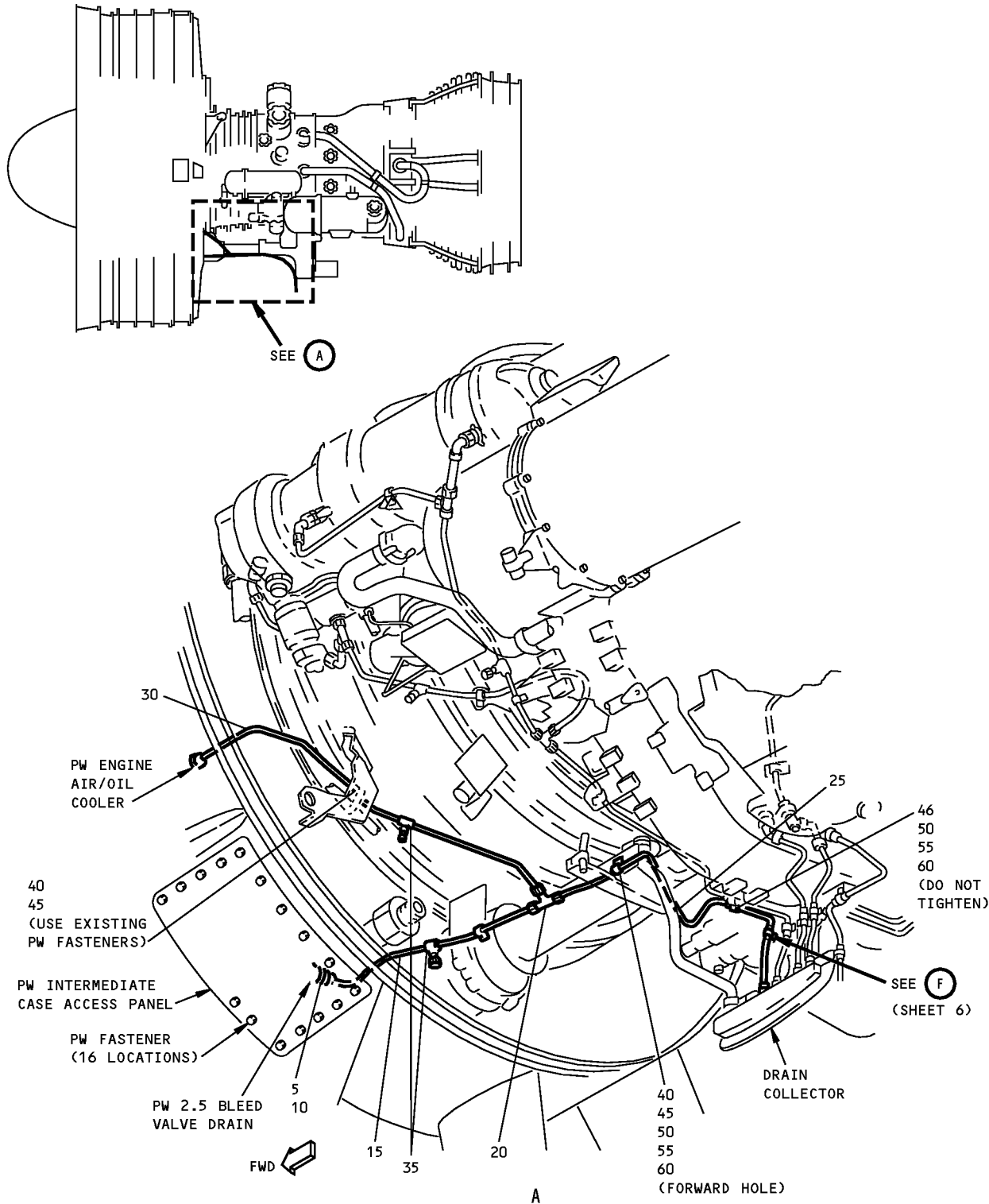
**71-00-02**

P/P BUILDUP FIGURE 4-2

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**Engine Overboard Drain Installation - Left Side  
Figure 4-2 (Sheet 1)**

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P/P BUILDUP FIGURE 4-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-2		<b>ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE (FIGURE 4-2, SHEET 1)</b>		
		REMOVE PW INTERMEDIATE CASE ACCESS PANEL. INSTALL PACKING (5) AND UNION (10) ON PW 2.5 BLEED VALVE. POSITION TUBES (15, 25, 30) AND TEE (20) BETWEEN PW ENGINE AIR/OIL COOLER, 2.5 BLEED VALVE, AND DRAIN COLLECTOR. TIGHTEN TUBE (30) ON PW AIR/OIL COOLER TO 75-80 LB-IN. INSTALL PANEL BY LUBRICATING PW FASTENER THREADS WITH oil, D00109 (C1). TIGHTEN PW FASTENERS TO 32-36 LB-IN.		
1	BACS18AF3	. SPACER (REF STANDARD PRACTICES)		AR
5	AS3581-906	. PACKING		1
10	MS21902J6	. UNION		1
15	332T4710-133	. TUBE ASSY <sup>[2]</sup>		1
15	332T4710-81	. TUBE ASSY (REPLACED BY 332T4710-133) (1 REQD) <sup>[2]</sup>	LTD	-
15	332T4710-23	. TUBE ASSY (REPLACED BY 332T4710-81) (1 REQD) <sup>[1]</sup>	LTD	-
20	BACT16BL060606J	. TEE		1
25	332T4710-59	. TUBE ASSY		1
30	332T4710-132	. TUBE ASSY		1
C1	D00109	. OIL	CON	AR
		INSTALL CAPS (35) ON TUBES (15, 30) AND SECURE TUBES (15, 25, 30) USING ITEMS (40 THRU 60) AND EXISTING PW FASTENERS.		
35	BACC14AD06JL	. CAP		2
35	BACC14AD06J	. CAP (OPTIONAL TO BACC14AD06JL)	OPT	-
40	TA027016-06	. CLAMP		5
40	BACC10HS06	. CLAMP (REPLACED BY TA027016-06)	LTD	-
45	BACC10GT2-06	. CLAMPSHELL (USED WITH BACC10HS06) (10 REQD)	LTD	-
46	BACC10GT3-06	. CLAMP ASSY		1
46	BACC10GT1-06	. . CLAMP (QTY 1)		
46	BACC10GT2-06	. . CLAMPSHELL (QTY 2)		
50	BACS12HN3U9	. SCREW		5
55	NAS1149C0332R	. WASHER		5
60	BACN10YR3C	. NUT		5
		*[2] PMA WITH 2 COOLING PORTS		
		*[1] PMA WITH 1 COOLING PORT		

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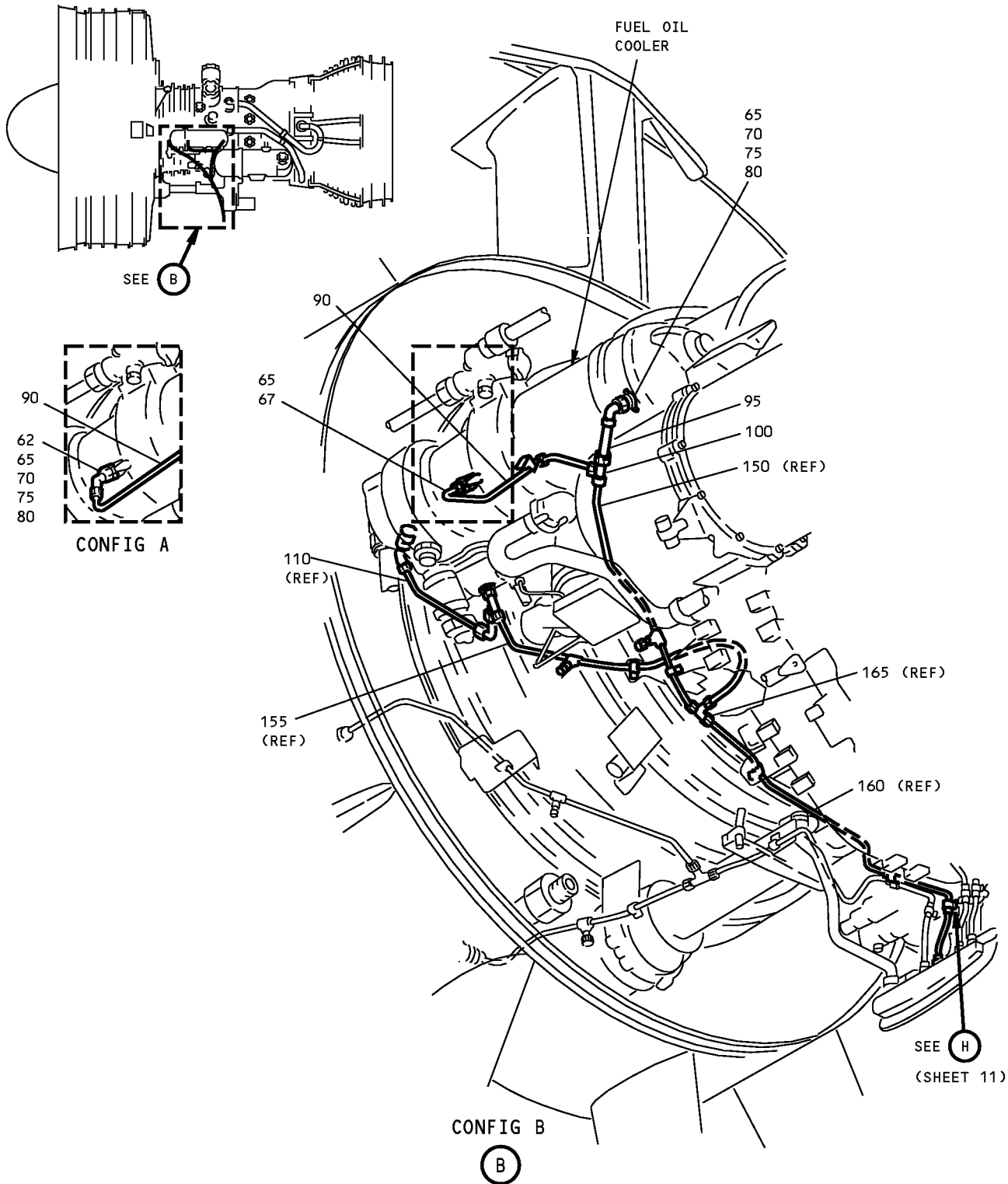
P/P BUILDUP FIGURE 4-2

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**POWERPLANT BUILDUP MANUAL**



**Engine Overboard Drain Installation - Left Side  
Figure 4-2 (Sheet 2)**

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P/P BUILDUP FIGURE 4-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-2		<b>ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE (FIGURE 4-2, SHEET 2)</b>		
		<u>CONFIG B;</u>		
		INSTALL ITEMS (65 THRU 80) ON FUEL/OIL COOLER.		
65	AS3581-906	. PACKING (2 REQD)	LTD	-
67	MS21902J6	. UNION (1 REQD)	LTD	-
70	MS28773-06	. RETAINER (1 REQD)	LTD	-
75	AS5179J06	. JAMNUT (1 REQD)	LTD	-
80	BACE21BM0606J	. ELBOW (1 REQD)	LTD	-
		<u>CONFIG A;</u>		
		INSTALL ITEMS (62 THRU 80) ON FUEL/OIL COOLER.		
62	BACE21BR0606JN	. ELBOW (1 REQD)	LTD	-
65	AS3581-906	. PACKING (2 REQD)	LTD	-
70	MS28773-06	. RETAINER (2 REQD)	LTD	-
75	AS5179J06	. JAMNUT (2 REQD)	LTD	-
80	BACE21BM0606J	. ELBOW (2 REQD)	LTD	-
		<u>CONFIG A, B;</u>		
		POSITION TUBE ASSYS (90, 95) AND TEE (100) ON FUEL/OIL COOLER.		
90	332T4710-73	. TUBE ASSY (1 REQD) <sup>[B]</sup>	LTD	-
90	332T4710-67	. TUBE ASSY (OPTIONAL TO 332T4710-73) <sup>[B]</sup>	LTD	-
90	332T4710-44	. TUBE ASSY (1 REQD) <sup>[A]</sup>	LTD	-
95	332T4710-26	. TUBE ASSY (1 REQD) <sup>[A][B]</sup>	LTD	-
100	BACT16BL060606J	. TEE (1 REQD) <sup>[A][B]</sup>	LTD	-
		<b>NOTE:</b> CONFIG A OPTIONAL TO CONFIG B.		

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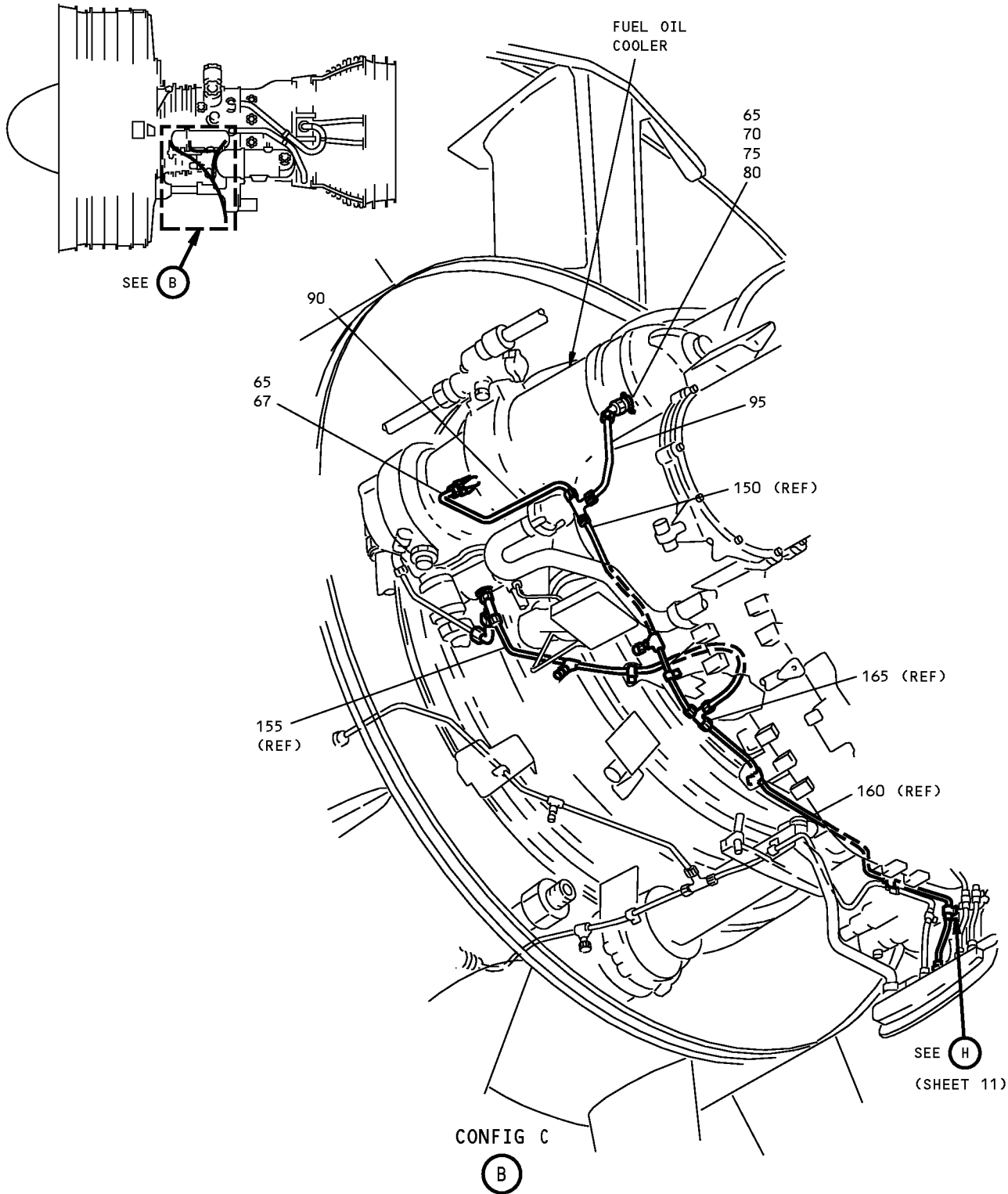
P/P BUILDUP FIGURE 4-2

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**POWERPLANT BUILDUP MANUAL**



**Engine Overboard Drain Installation - Left Side  
Figure 4-2 (Sheet 3)**

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P/P BUILDUP FIGURE 4-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-2		<b>ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE (FIGURE 4-2, SHEET 3)</b> <u>CONFIG C</u> INSTALL ITEMS (65 THRU 80) ON FUEL/OIL COOLER.		
65	AS3581-906	. PACKING		2
67	MS21902J6	. UNION		1
70	MS28773-06	. RETAINER		1
75	AS5179J06	. JAMNUT		1
80	BACE21BM0606J	. ELBOW		1
		POSITION TUBE ASSYS (90, 95) ON FUEL/OIL COOLER		
90	332T4710-124	. TUBE ASSY		1
95	332T4710-122	. TUBE ASSY		1

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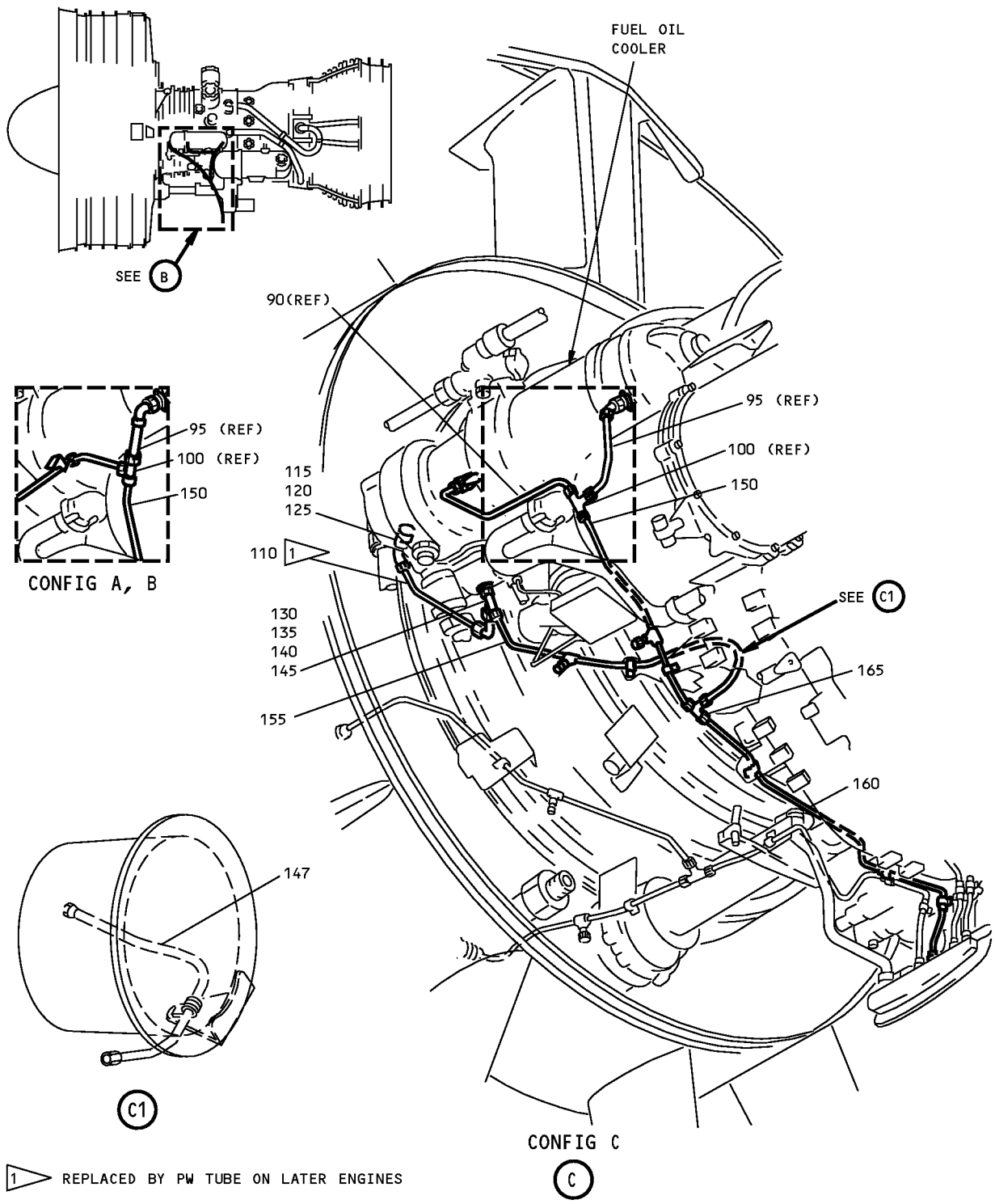
P/P BUILDUP FIGURE 4-2

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**POWERPLANT BUILDUP MANUAL**



**Engine Overboard Drain Installation - Left Side  
Figure 4-2 (Sheet 4)**

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P/P BUILDUP FIGURE 4-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-2		<b>ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE (FIGURE 4-2, SHEET 4)</b> <u>ENGINES WITH BOEING SUPPLIED TUBE ASSY;</u>  INSTALL TUBE ASSY (110) ON FUEL/OIL COOLER USING ITEMS (115 THRU 145).  POSITION TUBE ASSYS (147 THRU 160) AND TEE (165) BETWEEN FUEL/OIL COOLER AND DRAIN COLLECTOR.		
110	332T4710-29	. TUBE ASSY (1 REQD) <sup>[1]</sup>	LTD	-
115	AS3581-906	. PACKING (1 REQD)	LTD	-
120	MS21902J6	. UNION (1 REQD)	LTD	-
125	BACE21BR0606JN	. ELBOW (1 REQD)	LTD	-
130	AS3581-906	. PACKING (1 REQD)	LTD	-
135	MS21902J6	. UNION (1 REQD)	LTD	-
140	BACT16BR060606JN	. TEE (1 REQD)	LTD	-
145	BACE21BT0606JN	. ELBOW (1 REQD)	LTD	-
147	332T4710-123	. TUBE ASSY		1
147	332T4710-35	. TUBE ASSY (REPLACED BY 332T4710-123)	LTD	-
150	332T4710-126	. TUBE ASSY <sup>[C]</sup>		1
150	332T4710-25	. TUBE ASSY (1 REQD) <sup>[A][B]</sup>	LTD	-
155	332T4710-134	. TUBE ASSY		1
155	332T4710-106	. TUBE ASSY (REPLACED BY 332T4710-134)	LTD	-
155	332T4710-28	. TUBE ASSY (REPLACED BY 332T4710-106)	LTD	-
160	332T4710-125	. TUBE ASSY <sup>[2]</sup>		1
160	332T4710-60	. TUBE ASSY (REPLACED BY 332T4710-125) <sup>[2]</sup>	LTD	-
165	BACT16BL060606J	. TEE		1
		*[1] REPLD BY PW TUBE ON LATER ENGINES		
		*[2] IF BRACKET ASSY (REFERENCED IN BRACKET INSTALLATION - LEFT SIDE CORE CASE/Figure 3-3 , ITEM 558) IS NOT INSTALLED, USE 332T4710-60 TUBE ASSY.		

**71-00-02**

P/P BUILDUP FIGURE 4-2

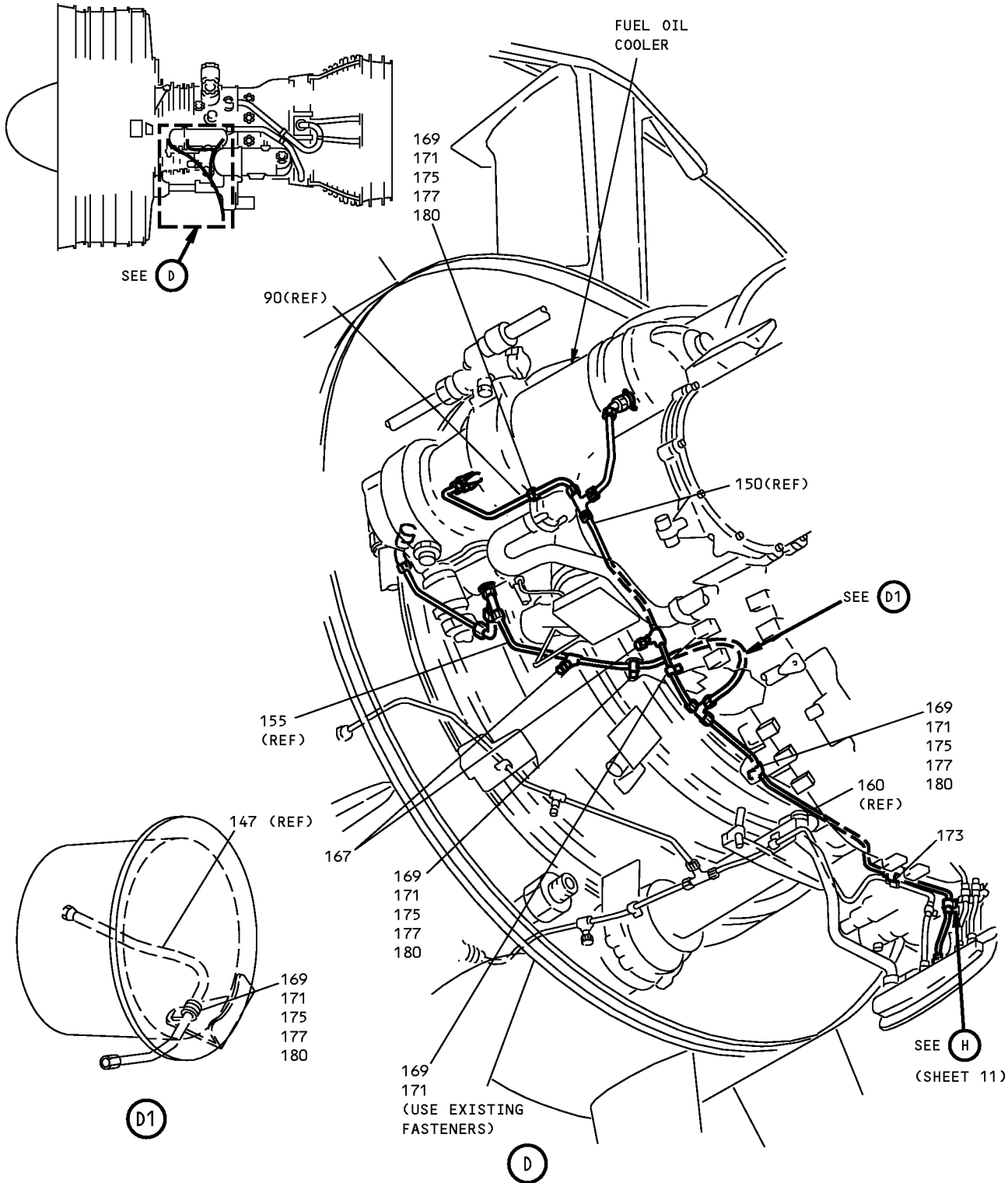
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**POWERPLANT BUILDUP MANUAL**



**Engine Overboard Drain Installation - Left Side  
Figure 4-2 (Sheet 5)**

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P/P BUILDUP FIGURE 4-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-2		<b>ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE (FIGURE 4-2, SHEET 5)</b>		
		INSTALL CAPS (167) ON TUBES (150, 155). SECURE TUBES (90, 147, 150, 155, 160) USING ITEMS (169 THRU 180).		
167	BACC14AD06JL	. CAP		2
167	BACC14AD06J	. CAP (OPTIONAL TO BACC14AD06JL)	OPT	-
169	TA027016-06	. CLAMP		5
169	BACC10HS06	. CLAMP (REPLACED BY TA027016-06)	LTD	-
171	BACC10GT2-06	. CLAMPSHELL (USED WITH BACC10HS06) (10 REQD)	LTD	-
173	BACC10GT3-06	. CLAMP ASSY		1
173	BACC10GT1-06	. . CLAMP (QTY 1)		
173	BACC10GT2-06	. . CLAMPSHELL (QTY 2)		
175	BACS12HN3U9	. SCREW		4
177	NAS1149C0332R	. WASHER		4
180	BACN10YR3C	. NUT		4

**71-00-02**

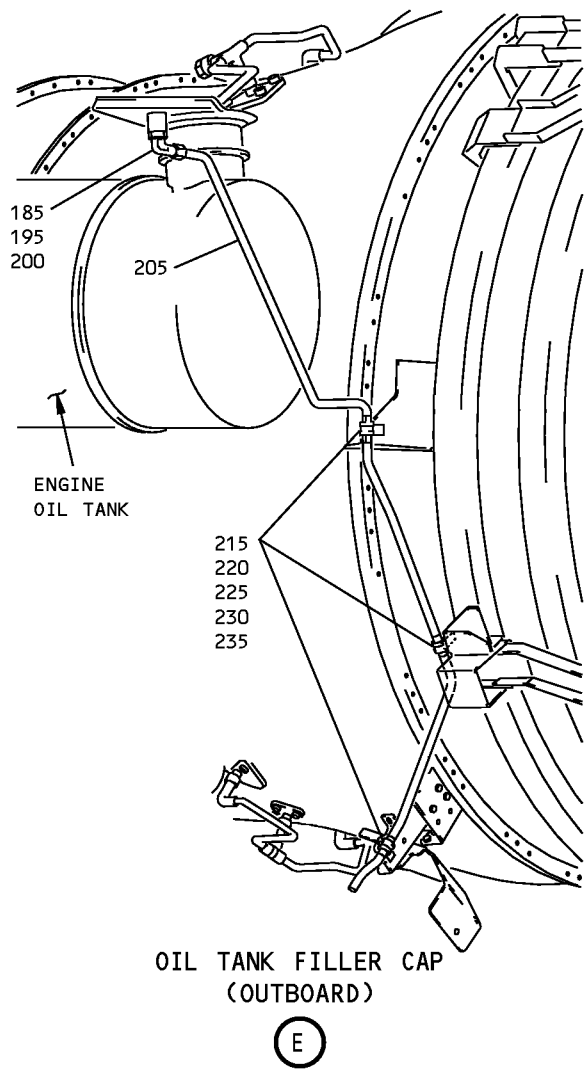
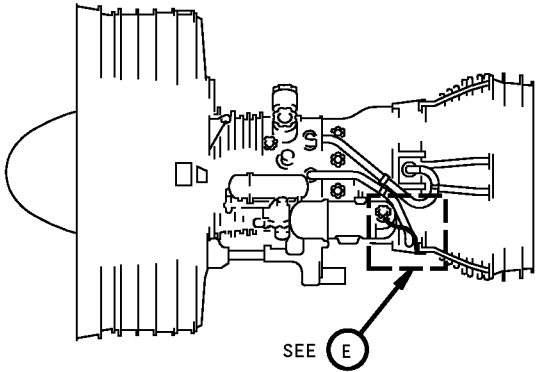
P/P BUILDUP FIGURE 4-2

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**POWERPLANT BUILDUP MANUAL**



**Engine Overboard Drain Installation - Left Side  
Figure 4-2 (Sheet 6)**

## POWERPLANT BUILDUP MANUAL

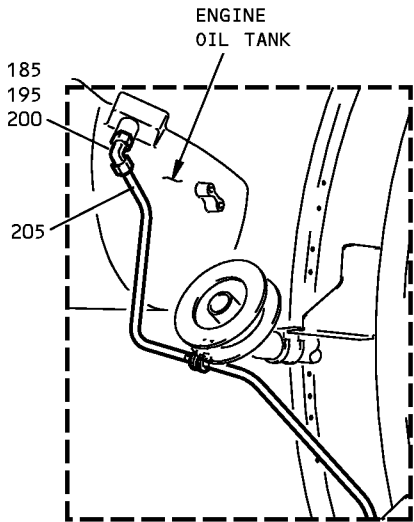
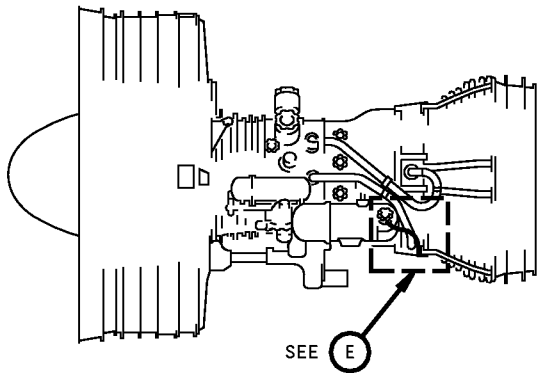
ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-2		<b>ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE (FIGURE 4-2, SHEET 6)</b>  OIL TANK FILLER CAP (OUTBOARD) <u>CONFIG B - WITHOUT OIL TANK FILLER NECK EXTENSION</u> <u>CONFIG A - WITH OIL TANK FILLER NECK EXTENSION</u>  INSTALL ITEMS (185 THRU 200) INTO THE OIL FILLER PORT OF THE OIL TANK. POSITION TUBE (205).		
185	AS3581-906	. PACKING (1 REQD)	LTD	-
195	AS5178J06	. JAMNUT (1 REQD)	LTD	-
200	MS21926J6	. ELBOW (1 REQD)	LTD	-
205	332T4710-48	. TUBE ASSY (1 REQD) <sup>[B]</sup>	LTD	-
205	332T4710-37	. TUBE ASSY (1 REQD) <sup>[A]</sup>	LTD	-
		SECURE TUBE ASSY (205) USING ITEMS (215 THRU 235).		
215	TA027016-06	. CLAMP (3 REQD)	LTD	-
215	BACC10HS06	. CLAMP (REPLACED BY TA027016-06)	LTD	-
220	BACC10GT2-06	. CLAMPSHELL (USED WITH BACC10HS06) (6 REQD)	LTD	-
225	BACS12HN3U9	. SCREW (4 REQD)	LTD	-
230	NAS1149C0332R	. WASHER (4 REQD)	LTD	-
235	BACN10YR3C	. NUT (4 REQD)	LTD	-

**71-00-02**

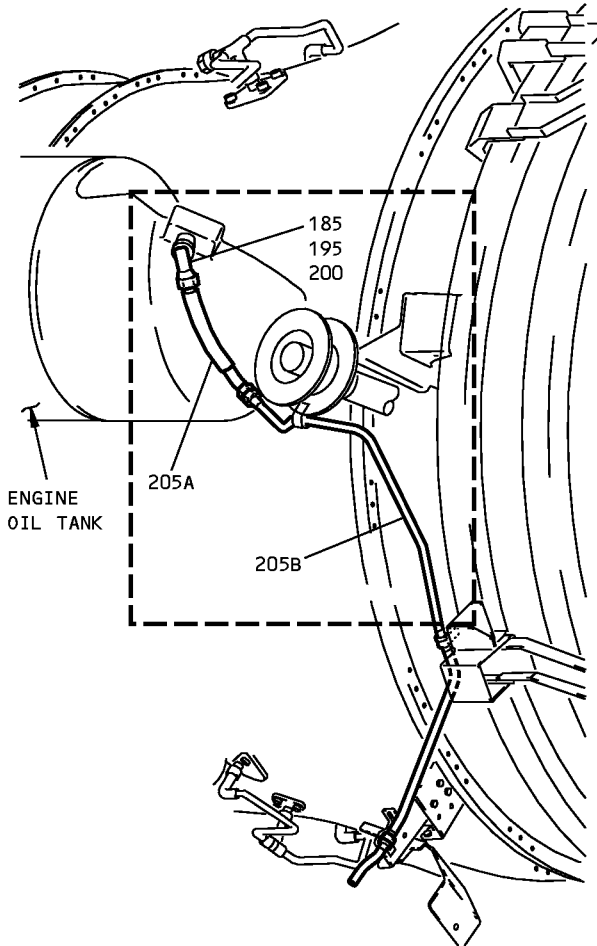
P/P BUILDUP FIGURE 4-2

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CONFIG A



OIL TANK FILLER CAP  
CONFIG B  
(INBOARD)



Engine Overboard Drain Installation - Left Side  
Figure 4-2 (Sheet 7)

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P/P BUILDUP FIGURE 4-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-2		<b>ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE (FIGURE 4-2, SHEET 7)</b> <u>OIL TANK FILLER CAP (INBOARD)</u>  INSTALL ITEMS (185 THRU 200) INTO THE OIL FILLER PORT OF THE OIL TANK.		
185	AS3581-906	. PACKING		1
195	AS5178J06	. JAMNUT		1
200	MS21926J6	. ELBOW		1
		<u>CONFIG B;</u>  ATTACH HOSE ASSY (205A) TO TUBE ASSY (205B). POSITION ATTACHED HOSE/TUBE ASSY AND ATTACH TO ELBOW (200).		
205A	AS138-06N0065L	. HOSE ASSY		1
205B	332T4710-130	. TUBE ASSY		1
		<u>CONFIG A;</u>  POSITION TUBE ASSY (205) AND ATTACH TO ELBOW (200).		
205	332T4710-79	. TUBE ASSY (1 REQD)	LTD	-

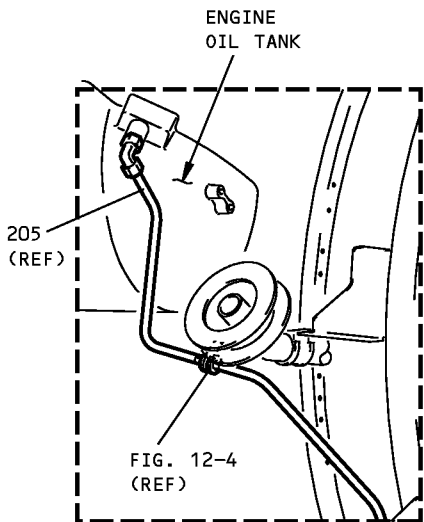
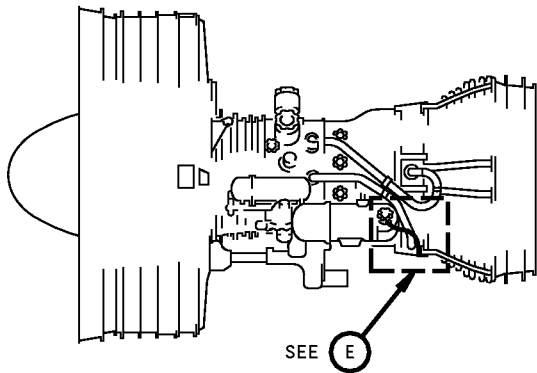
**71-00-02**

P/P BUILDUP FIGURE 4-2

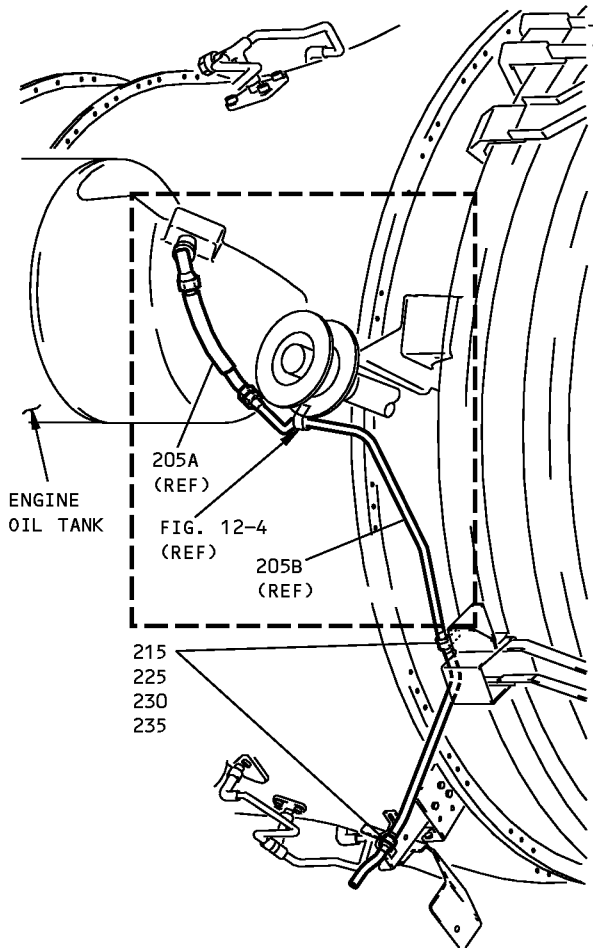
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**POWERPLANT BUILDUP MANUAL**



CONFIG A



OIL TANK FILLER CAP  
CONFIG B  
(INBOARD)

E

Engine Overboard Drain Installation - Left Side  
Figure 4-2 (Sheet 8)

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P/P BUILDUP FIGURE 4-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-2		<b>ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE (FIGURE 4-2, SHEET 8)</b>  <u>OIL TANK FILLER CAP (INBOARD)</u> <u>CONFIG B;</u>  SECURE HOSE ASSY (205A) AND TUBE ASSY (205B) USING ITEMS (215 THRU 235).  <u>CONFIG A;</u>  SECURE TUBE ASSY (205) USING ITEMS (215 THRU 235).		
215	TA027016-06	. CLAMP (V84971)	VEN	2
225	BACS12HN3U9	. SCREW		2
230	NAS1149C0332R	. WASHER		2
235	BACN10YR3C	. NUT		2

**71-00-02**

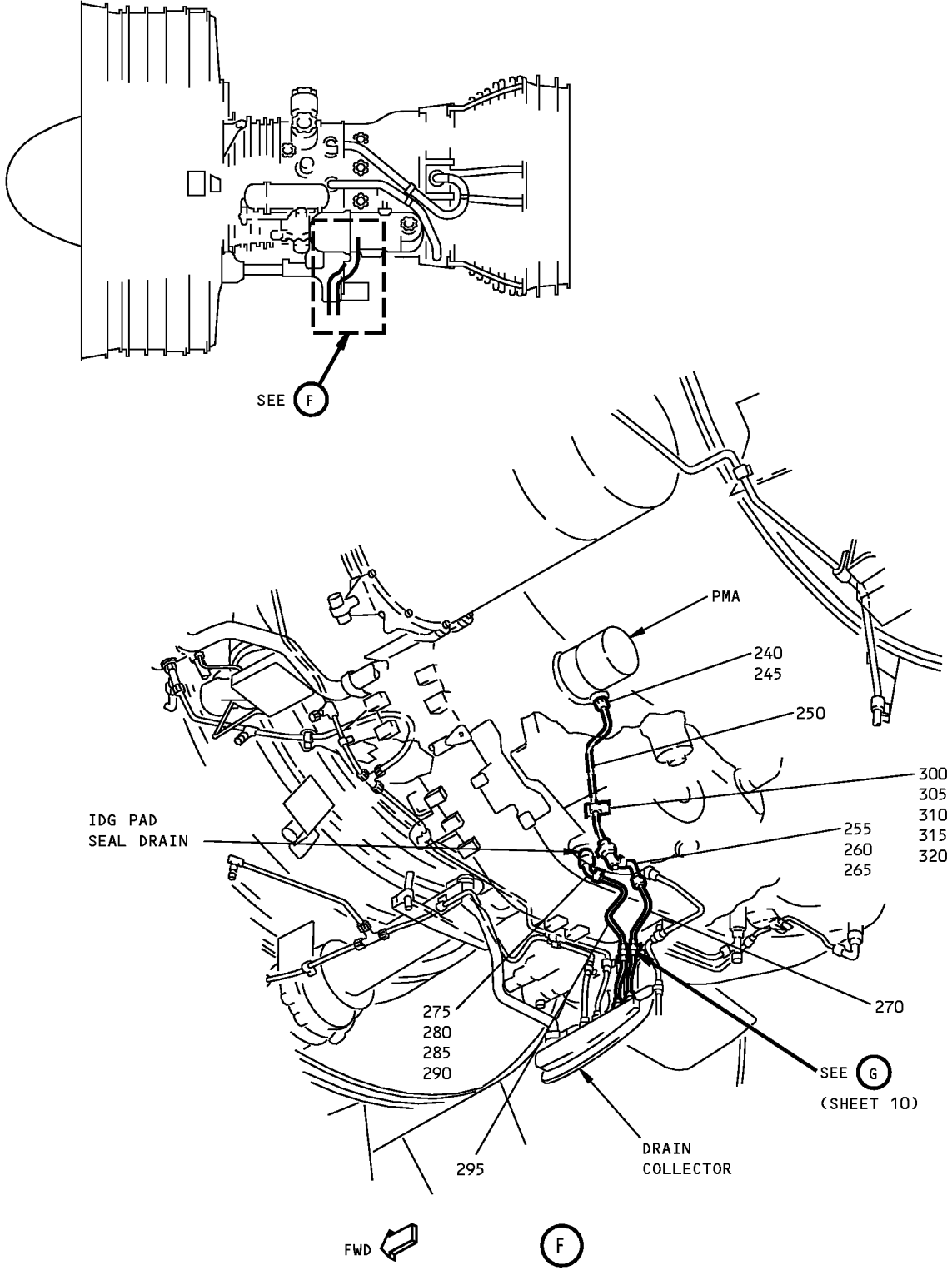
P/P BUILDUP FIGURE 4-2

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**POWERPLANT BUILDUP MANUAL**



**Engine Overboard Drain Installation - Left Side  
Figure 4-2 (Sheet 9)**

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P/P BUILDUP FIGURE 4-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-2		<b>ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE (FIGURE 4-2, SHEET 9)</b>		
		INSTALL PACKING (240) AND REDUCER (245) INTO PMA. ATTACH TUBE ASSY (250) TO REDUCER (245). POSITION TEE (260), ELBOW (265), AND CAP (255) ON TUBE ASSY (250). POSITION TUBE ASSY (270) BETWEEN ELBOW (265) AND DRAIN COLLECTOR.		
240	AS3581-904	. PACKING		1
245	MS21916J6-4	. REDUCER		1
250	332T4710-32	. TUBE ASSY		1
255	BACC14AD06JL	. CAP		1
255	BACC14AD06J	. CAP (OPTIONAL TO BACC14AD06JL)	OPT	-
260	BCREF116854	. TEE (OVER LENGTH P/N BACT16BR060606JN)		1
265	BACE21BT0606JN	. ELBOW		1
270	332T4710-62	. TUBE ASSY		1
		INSTALL ITEMS (275 THRU 290) INTO IDG PAD. POSITION TUBE ASSY (295) BETWEEN ELBOW (290) AND DRAIN COLLECTOR.		
275	AS3581-906	. PACKING		1
280	MS28773-06	. RETAINER		1
285	AS5179J06	. JAMNUT		1
290	BACE21BN0606J	. ELBOW		1
295	332T4710-117	. TUBE ASSY		1
295	332T4710-61	. TUBE ASSY (REPLACED BY 332T4710-117)	LTD	-
		SECURE TUBES (250, 270, 295) WITH ITEMS (300 THRU 320).		
300	TA027016-06	. CLAMP		3
300	BACC10HS06	. CLAMP (REPLACED BY TA027016-06)	LTD	-
305	BACC10GT2-06	. CLAMPSHELLS (USED WITH BACC10HS06) (6 REQD)	LTD	-
310	BACS12HN3U9	. SCREW		3
315	NAS1149C0332R	. WASHER		3
320	BACN10YR3C	. NUT		3

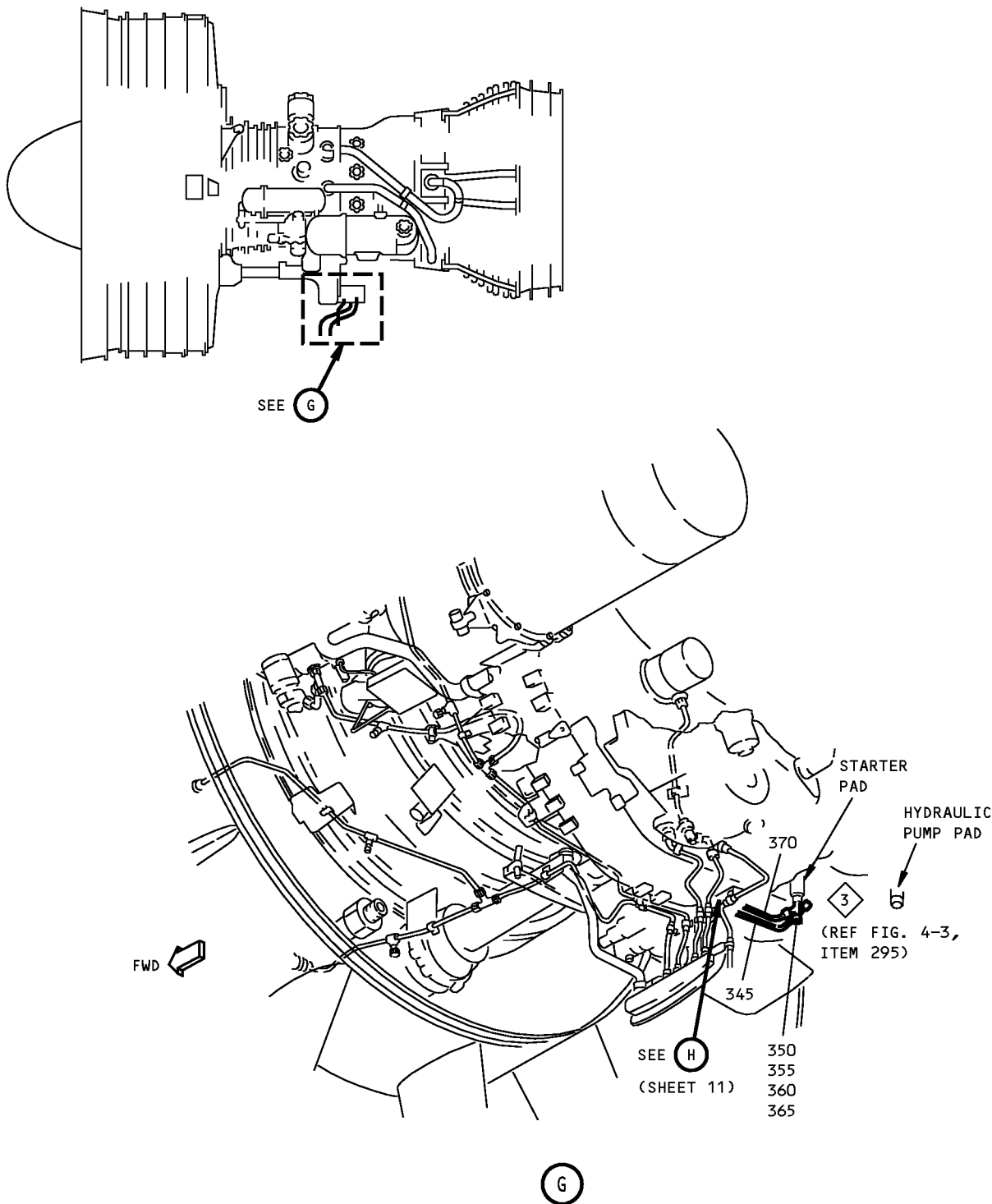
**71-00-02**

P/P BUILDUP FIGURE 4-2

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**POWERPLANT BUILDUP MANUAL**



**Engine Overboard Drain Installation - Left Side  
Figure 4-2 (Sheet 10)**

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P/P BUILDUP FIGURE 4-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-2		<b>ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE (FIGURE 4-2, SHEET 10)</b>		
		POSITION TUBE (345) INTO DRAIN COLLECTOR, AND RETAIN IN PLACE FOR ATTACHMENT TO TUBE (REF:ENGINE OVERBOARD DRAIN INSTALLATION - RIGHT SIDE/Figure 4-3 , ITEM 295).		
345	332T4710-116	. TUBE ASSY		1
345	332T4710-56	. TUBE ASSY (REPLACED BY 332T4710-116)	LTD	-
		INSTALL PACKING (350) AND UNION (355) INTO BOTTOM OF STARTER PAD. ATTACH TEE (360), CAP (365), AND TUBE ASSY (370) BETWEEN UNION (355) AND DRAIN COLLECTOR.		
350	AS351-906	. PACKING		1
355	MS21902J6	. UNION		1
360	BCREF116854	. TEE (OVER LENGTH P/N BACT16BR060606JN)		1
365	BACC14AD06JL	. CAP		1
365	BACC14AD06J	. CAP (OPTIONAL TO BACC14AD06JL)	OPT	-
370	332T4710-76	. TUBE ASSY		1
370	332T4710-55	. TUBE ASSY (REPLACED BY 332T4710-76)	LTD	-

**71-00-02**

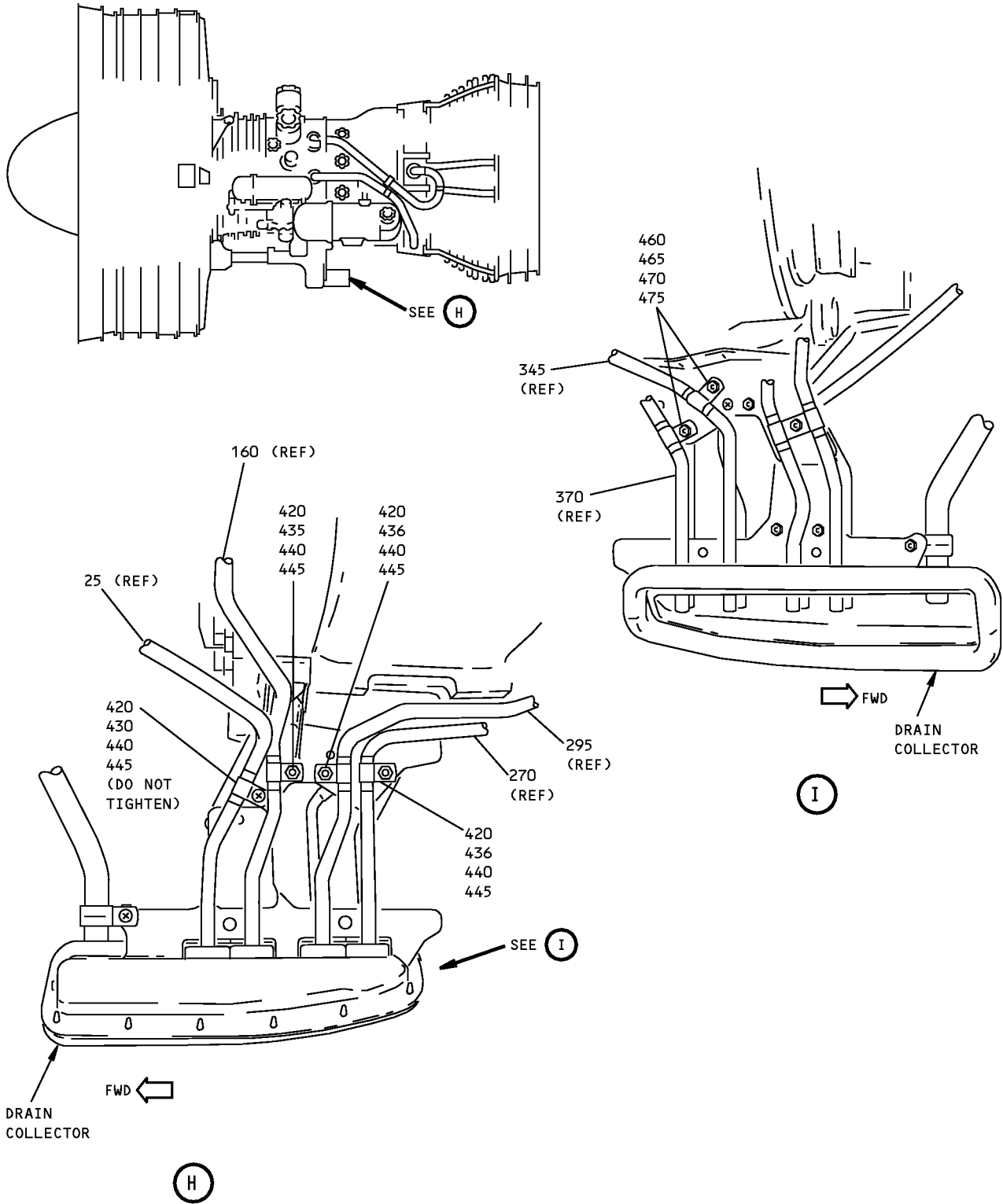
P/P BUILDUP FIGURE 4-2

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POWERPLANT BUILDUP MANUAL



Engine Overboard Drain Installation - Left Side  
Figure 4-2 (Sheet 11)

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P/P BUILDUP FIGURE 4-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-2		<b>ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE (FIGURE 4-2, SHEET 11)</b>		
		ADJUST DRAIN TUBE ENDS TO EXTEND BEYOND COLLECTOR BY 0.3 INCH.		
		SECURE TUBES (25, 160, 270, 295) TO DRAIN COLLECTOR USING ITEMS (420 THRU 445).		
420	BACC10GT3-06	. CLAMP ASSY		4
420	BACC10GT1-06	. . CLAMP (QTY 1)		
420	BACC10GT2-06	. . CLAMPSHELL (QTY 2)		
430	BACS12HN3U9	. SCREW		1
435	BACS12HN3U8	. SCREW		4
436	BACB30LU3-3	. SCREW		2
440	NAS1149C0332R	. WASHER		4
445	BACN10YR3C	. NUT		4
		SECURE TUBES (345, 370) TO DRAIN COLLECTOR USING ITEMS (460 THRU 475).		
460	BACC10GT3-06	. CLAMP ASSY		2
460	BACC10GT1-06	. . CLAMP (QTY 1)		
460	BACC10GT2-06	. . CLAMPSHELL (QTY 2)		
465	BACB30VF3K3	. BOLT		2
465	BACB30LU3-3	. BOLT (REPLACED BY BACB30VF3K3)	LTD	-
470	NAS1149C0332R	. WASHER		2
475	BACN10YR3C	. NUT		2

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P/P BUILDUP FIGURE 4-2

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FIGURE 4-3

# ENGINE OVERBOARD DRAIN INSTALLATION - RIGHT SIDE

REF QEC TASK NO.: 4

REF DWG: 332T4710  
332T4150

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

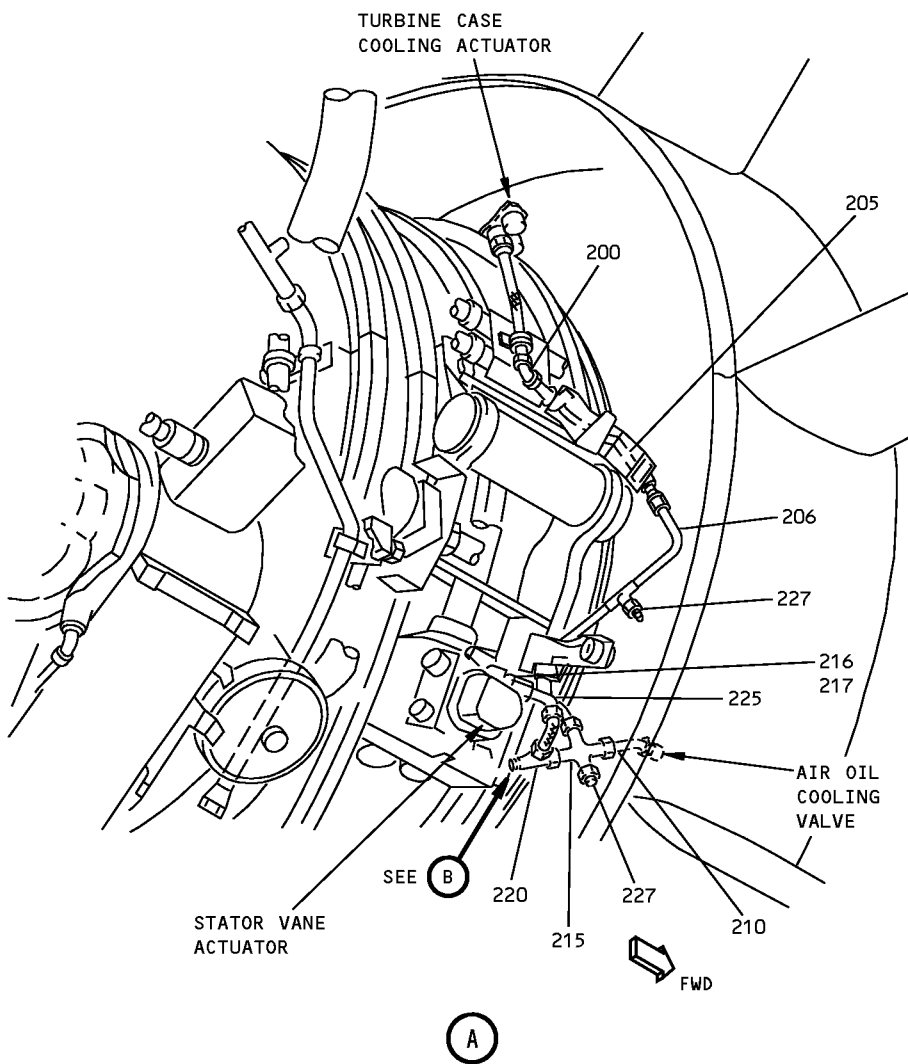
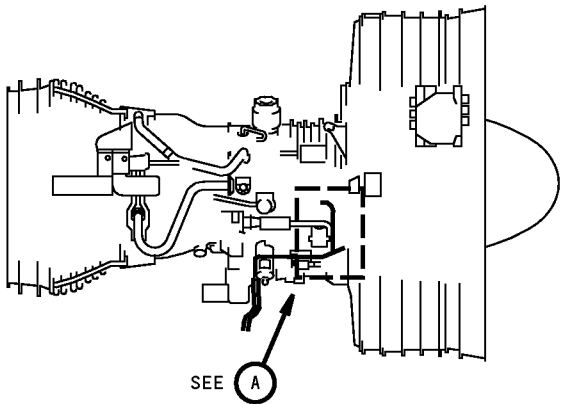
**71-00-02**

P/P BUILDUP FIGURE 4-3

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**POWERPLANT BUILDUP MANUAL**



**Engine Overboard Drain Installation - Right Side**  
**Figure 4-3 (Sheet 1)**

**71-00-02**



## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-3		<b>ENGINE OVERBOARD DRAIN INSTALLATION - RIGHT SIDE (FIGURE 4-3, SHEET 1)</b>		
		POSITION ELBOW (200), TUBE ASSYS (205,206,210), TEE (207), AND CROSS (215) BETWEEN TURBINE CASE COOLING ACTUATOR TUBE AND AIR/OIL COOLING VALVE. POSITION TEE (207) OUTBOARD. TIGHTEN TUBE (210) ON AIR/OIL COOLING VALVE TO 75-80 LB-IN.		
200	BACE21BL0606J	. ELBOW		1
205	332T4710-85	. TUBE ASSY		1
205	332T4710-70	. TUBE ASSY (REPLACED BY 332T4710-85)	LTD	-
206	332T4710-71	. TUBE ASSY		1
210	332T4710-11	. TUBE ASSY		1
215	MS21906J6	. CROSS		1
		INSTALL UNION (216) AND PACKING (217) INTO STATOR VANE ACTUATOR. POSITION TEE (220) AND HOSE ASSY (225) BETWEEN UNION (216) AND CROSS (215).		
216	MS21902J6	. UNION		1
217	AS3581-906	. PACKING		1
220	BACT16BR060606JN	. TEE		1
225	AS138-06N0076L	. HOSE ASSY		1
		ATTACH CAPS (227) TO TUBE ASSY (206) AND CROSS (215).		
227	BACC14AD06JL	. CAP		2
227	BACC14AD06J	. CAP (OPTIONAL TO BACC14AD06JL)	OPT	-

**71-00-02**

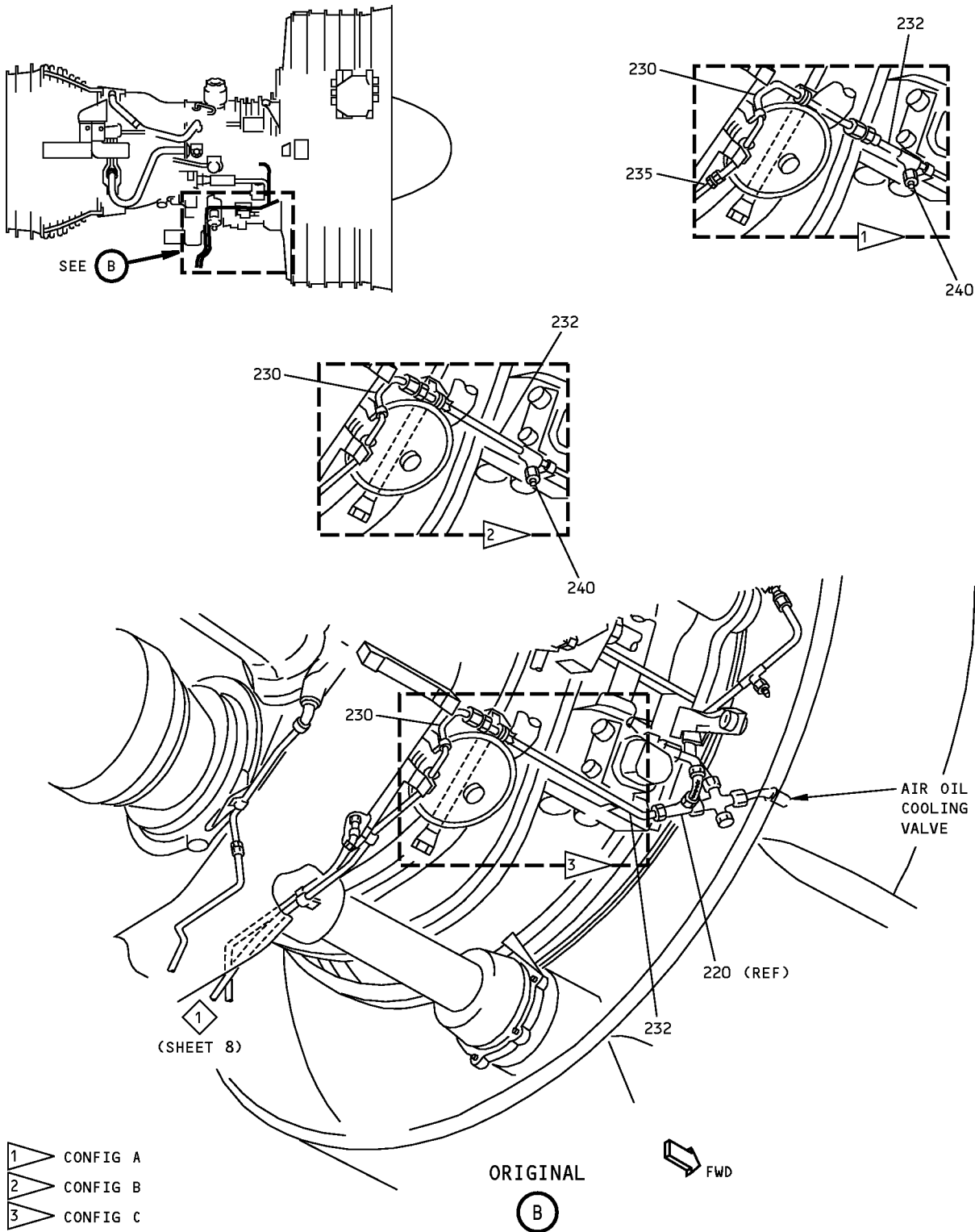
P/P BUILDUP FIGURE 4-3

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**POWERPLANT BUILDUP MANUAL**



**Engine Overboard Drain Installation - Right Side  
Figure 4-3 (Sheet 2)**

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P/P BUILDUP FIGURE 4-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-3		<b>ENGINE OVERBOARD DRAIN INSTALLATION - RIGHT SIDE (FIGURE 4-3, SHEET 2)</b>  <u>ORIGINAL</u>  ATTACH TUBE ASSY (232) TO TEE (220). ATTACH TUBE ASSY (230) TO TUBE ASSY (232). ATTACH TUBE ASSY (235) TO TUBE ASSY (230) FOR CONFIG A. ATTACH CAP (240) TO TUBE ASSY (232) FOR CONFIG A AND B.		
230	332T4710-137	. TUBE ASSY (1 REQD) <sup>[C]</sup>	LTD	-
230	332T4710-93	. TUBE ASSY (REPLACED BY 332T4710-137) (1 REQD) <sup>[B][C]</sup>	LTD	-
230	332T4710-77	. TUBE ASSY (REPLACED BY 332T4710-93) (1 REQD) <sup>[B]</sup>	LTD	-
230	332T4710-46	. TUBE ASSY (REPLACED BY 332T4710-77) (1 REQD) <sup>[A][1]</sup>	LTD	-
232	332T4710-136	. TUBE ASSY (1 REQD) <sup>[C]</sup>	LTD	-
232	332T4710-135	. TUBE ASSY (REPLACED BY 332T4710-136) (1 REQD) <sup>[C]</sup>	LTD	-
232	332T4710-78	. TUBE ASSY (REPLACED BY 332T4710-135) (1 REQD) <sup>[B]</sup>	LTD	-
232	332T4710-47	. TUBE ASSY (REPLACED BY 332T4710-78) (1 REQD) <sup>[A]</sup>	LTD	-
235	332T4710-57	. TUBE ASSY (REPLACED BY 332T4710-77) <sup>[A][1]</sup>	LTD	-
240	BACC14AD06JN	. CAP (1 REQD) <sup>[B]</sup>	LTD	-
240	BACC14AD06J	. CAP (OPTIONAL TO BACC14AD06JN) (1 REQD) <sup>[B]</sup>	LTD	-
		*[1] 332T4710-46 T/W 332T4710-57 REPLD BY 332T4710-77		

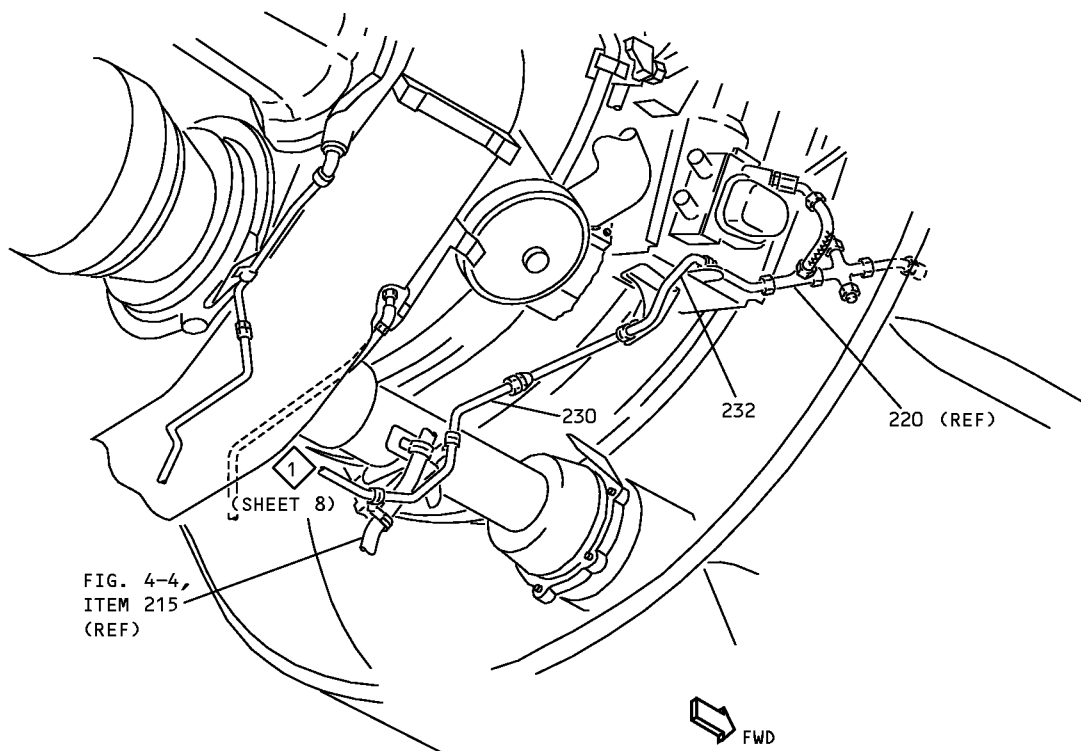
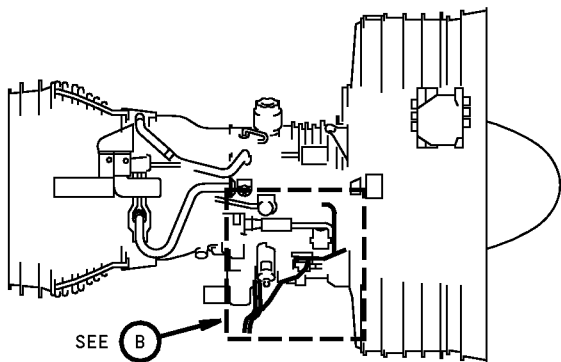
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P/P BUILDUP FIGURE 4-3

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PREFERRED  
CONFIG D

(B)

Engine Overboard Drain Installation - Right Side  
Figure 4-3 (Sheet 3)

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P/P BUILDUP FIGURE 4-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-3		<b>ENGINE OVERBOARD DRAIN INSTALLATION - RIGHT SIDE (FIGURE 4-3, SHEET 3)</b>  <u>PREFERRED</u>  ATTACH TUBE ASSY (232) TO TEE (220). ATTACH TUBE ASSY (230) TO TUBE ASSY (232).		
230	332T4710-147	. TUBE ASSY		1
232	332T4710-146	. TUBE ASSY		1

**71-00-02**

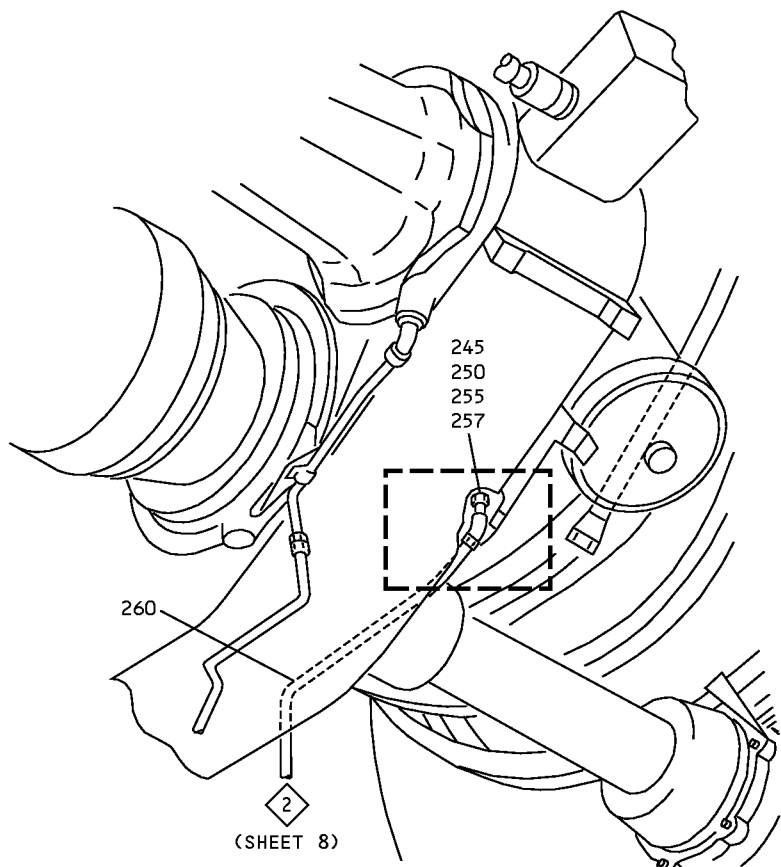
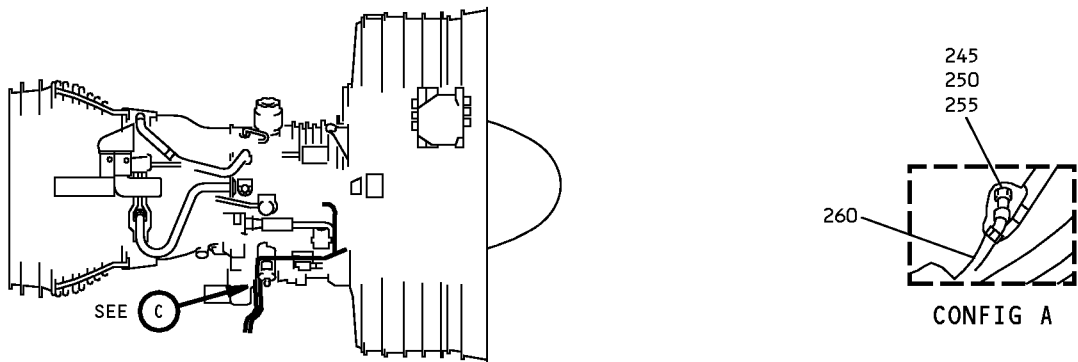
P/P BUILDUP FIGURE 4-3

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**POWERPLANT BUILDUP MANUAL**



FWD

CONFIG B

C

**Engine Overboard Drain Installation - Right Side  
Figure 4-3 (Sheet 4)**

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P/P BUILDUP FIGURE 4-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-3		<b>ENGINE OVERBOARD DRAIN INSTALLATION - RIGHT SIDE (FIGURE 4-3, SHEET 4)</b>  INSTALL PACKING (245) AND UNION (250) INTO FUEL CONTROL DRAIN. ATTACH ELBOW (255) TO UNION (250). ATTACH TUBE (260) TO ELBOW (255).		
245	AS3581-906	. PACKING		1
250	MS28773-06	. RETAINER (1 REQD) <sup>[B]</sup>		1
250	MS21902J6	. UNION (1 REQD) <sup>[A]</sup>	LTD	-
255	BACE21BM0606J	. ELBOW <sup>[B]</sup>		1
255	BACE21BR0606JN	. ELBOW (REPLACED BY BACE21BM0606J) (1 REQD) <sup>[A]</sup>	LTD	-
257	AS5179J06	. NUT <sup>[B]</sup>		1
260	332T4710-94	. TUBE ASSY (1 REQD) <sup>[B]</sup>		1
260	332T4710-58	. TUBE ASSY (REPLACED BY 332T4710-94) (1 REQD) <sup>[A]</sup>	LTD	-

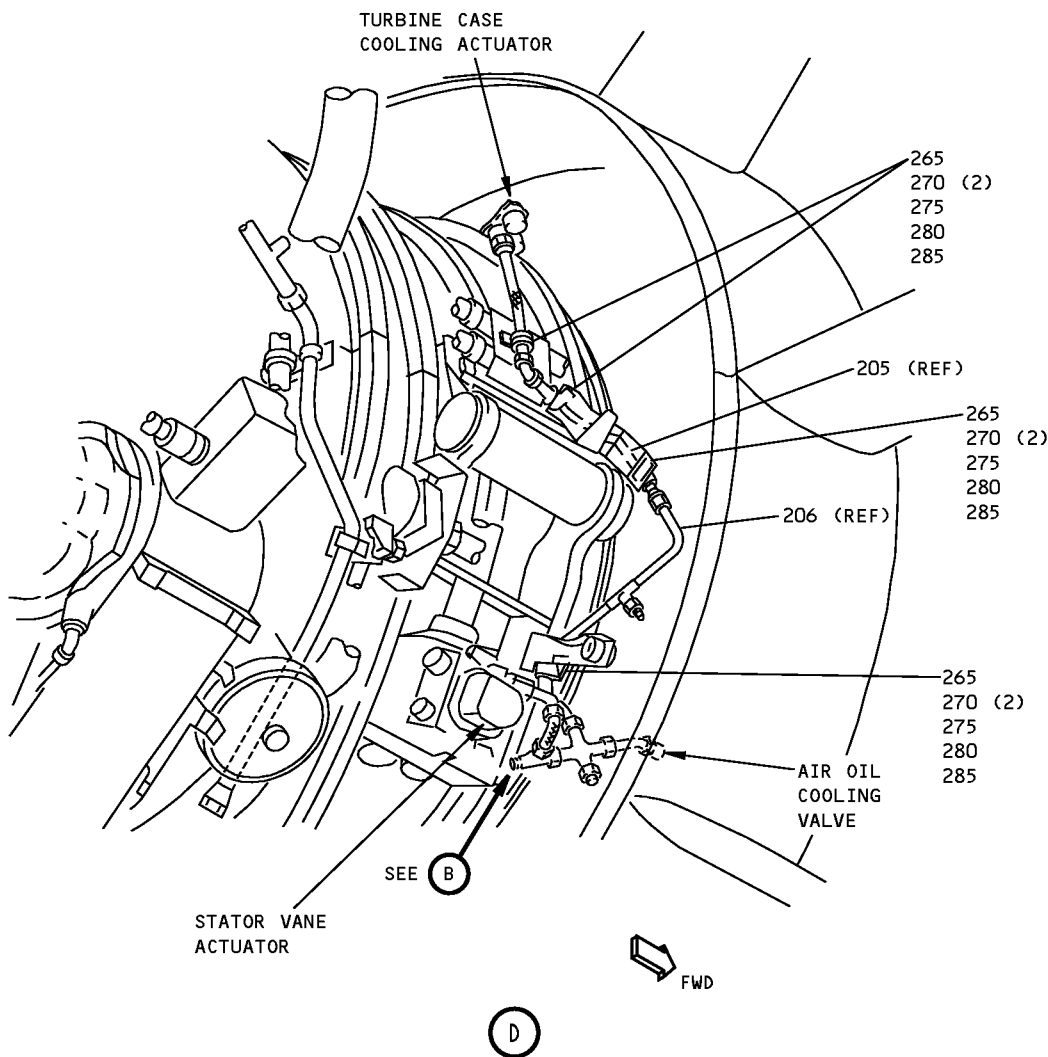
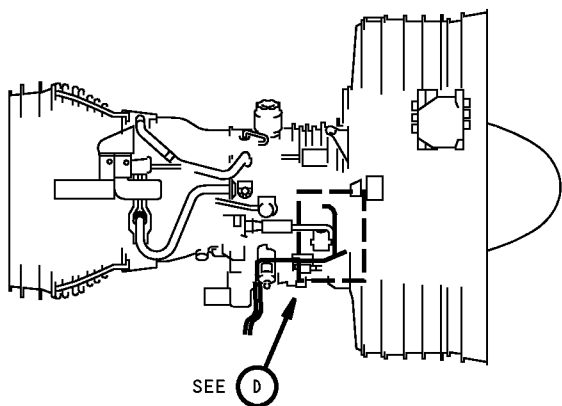
**71-00-02**

P/P BUILDUP FIGURE 4-3

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**POWERPLANT BUILDUP MANUAL**



**Engine Overboard Drain Installation - Right Side  
Figure 4-3 (Sheet 5)**

**71-00-02**

P/P BUILDUP FIGURE 4-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-3		<b>ENGINE OVERBOARD DRAIN INSTALLATION - RIGHT SIDE (FIGURE 4-3, SHEET 5)</b> SECURE TUBES (205, 206, 230, 232, 235, 260) WITH ITEMS (265 THRU 285).		
265	TA027016-06	. CLAMP (V84971)	VEN	10
265	BACC10HS06	. CLAMP (REPLACED BY TA027016-06)	LTD	-
270	BACC10GT2-06	. CLAMPSHELL (USED WITH BACC10HS06) (20 REQD)	LTD	-
275	BACS12HN3U8	. SCREW		9
280	NAS1149C0332R	. WASHER		9
285	BACN10YR3C	. NUT		9

**71-00-02**

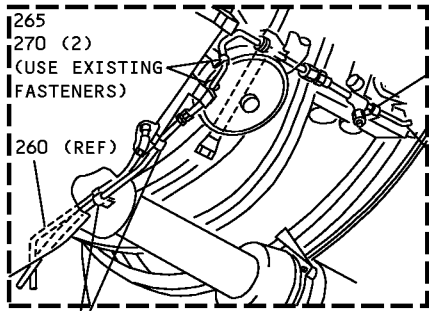
P/P BUILDUP FIGURE 4-3

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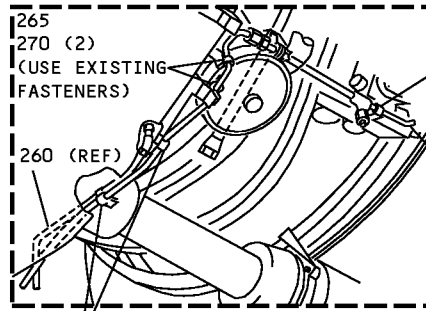
D6-35800-SAS

POWERPLANT BUILDUP MANUAL



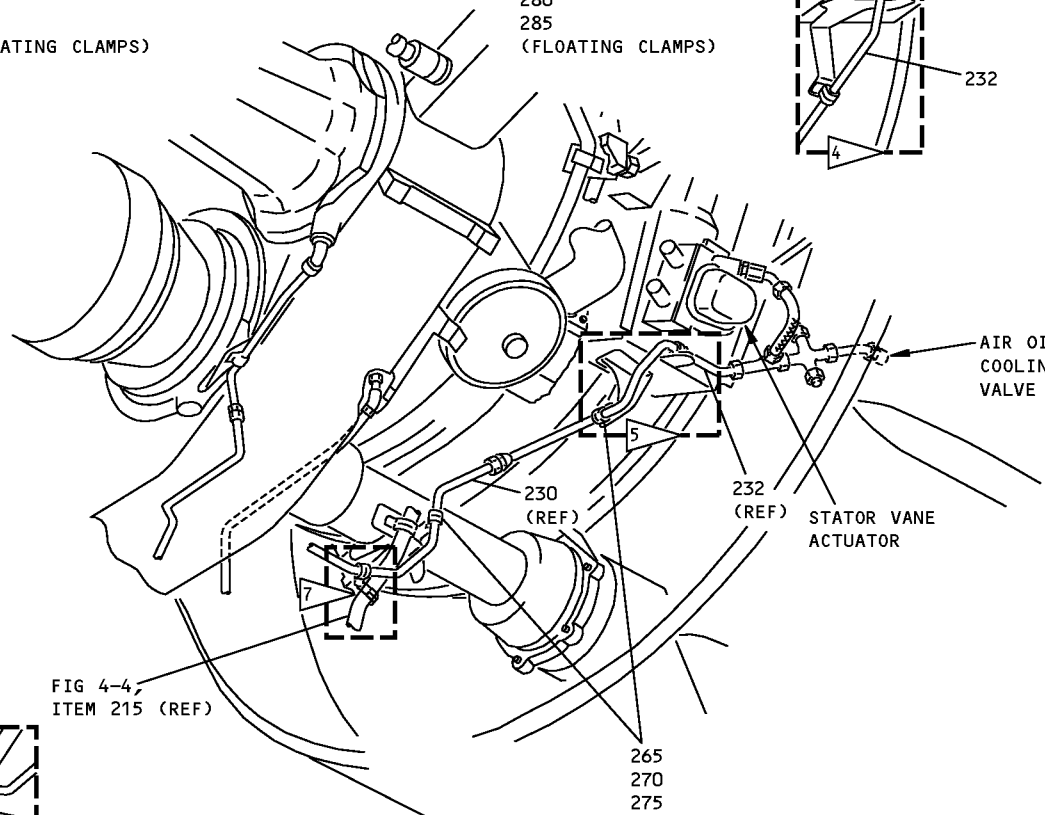
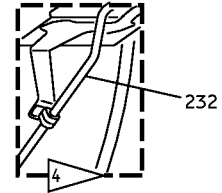
CONFIG A

- 265 (2)
- 270 (4)
- 275
- 280
- 285
- (FLOATING CLAMPS)



CONFIG B,C

- 265 (2)
- 270 (4)
- 275
- 280
- 285
- (FLOATING CLAMPS)



CONFIG D

(D)

FIG 4-4, ITEM 215 (REF)

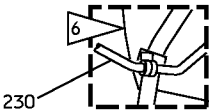


FIG. 4-4, ITEM 215 (REF)



- 4 ORIGINAL BRACKET
- 5 PREFERRED BRACKET
- 6 ORIGINAL CLAMPING
- 7 PREFERRED CLAMPING

Engine Overboard Drain Installation - Right Side  
Figure 4-3 (Sheet 6)

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P/P BUILDUP FIGURE 4-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-3		<b>ENGINE OVERBOARD DRAIN INSTALLATION - RIGHT SIDE (FIGURE 4-3, SHEET 6)</b>		
		SECURE TUBES (230, 232, 260) WITH ITEMS (265 THRU 285).		
265	TA027016-06	. CLAMP <sup>*[2]</sup> (V84971)	VEN	2
265	TA027016-06	. CLAMP <sup>*[1]</sup> (V84971)	VEN	5
265	BACC10HS06	. CLAMP (REPLACED BY TA027016-06) (5 REQD) <sup>*[1]</sup>	LTD	-
270	BACC10GT2-06	. CLAMPSHELL (USED WITH BACC10HS06) (4 REQD) <sup>*[2]</sup>	LTD	-
270	BACC10GT2-06	. CLAMPSHELL (USED WITH BACC10HS06) (10 REQD) <sup>*[1]</sup>	LTD	-
275	BACS12HN3U8	. SCREW <sup>*[2]</sup>		2
275	BACS12HN3U8	. SCREW <sup>*[1]</sup>		3
280	NAS1149C0332R	. WASHER <sup>*[2]</sup>		2
280	NAS1149C0332R	. WASHER <sup>*[1]</sup>		3
285	BACN10YR3C	. NUT <sup>*[2]</sup>		2
285	BACN10YR3C	. NUT <sup>*[1]</sup>		3
		*[1] CONFIGS A, B AND C		
		*[2] CONFIG D		

**71-00-02**

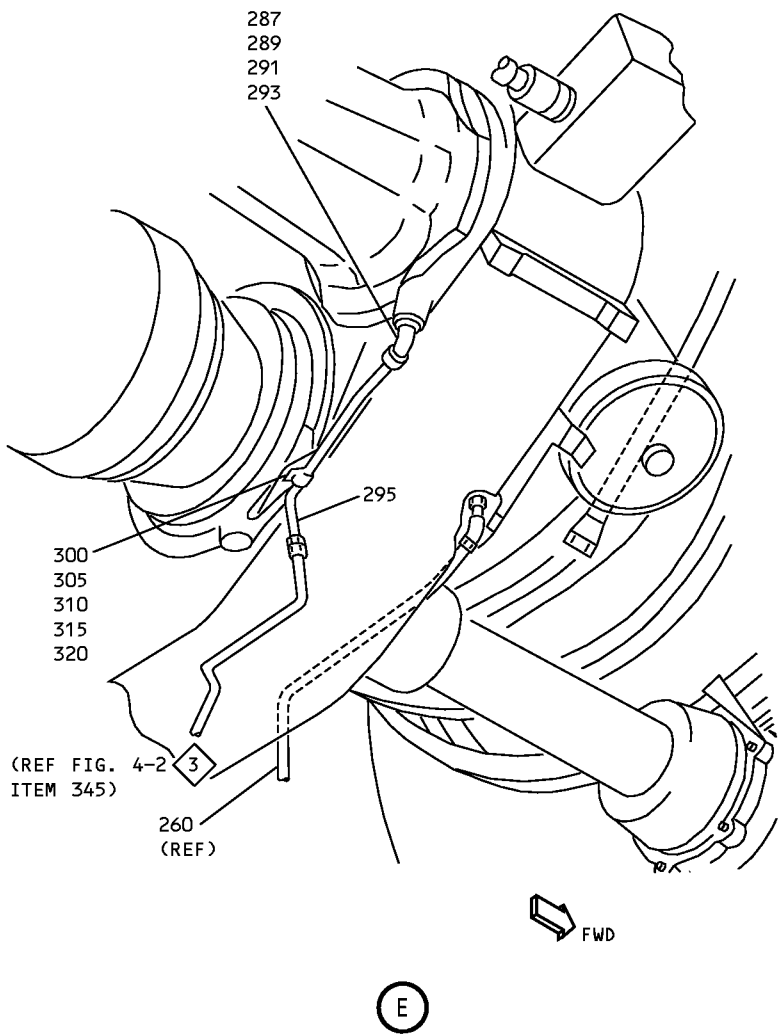
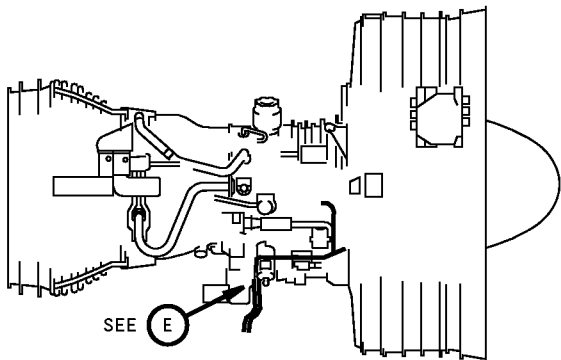
P/P BUILDUP FIGURE 4-3

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**POWERPLANT BUILDUP MANUAL**



**Engine Overboard Drain Installation - Right Side**  
**Figure 4-3 (Sheet 7)**

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P/P BUILDUP FIGURE 4-3  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-3		<b>ENGINE OVERBOARD DRAIN INSTALLATION - RIGHT SIDE (FIGURE 4-3, SHEET 7)</b>  INSTALL ITEMS (287 THRU 293) ON HYDRAULIC PUMP PAD AND INSTALL TUBE ASSY (295). ATTACH TUBE ASSY (295) TO TUBE ASSY (REF: ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE/Figure 4-2 , ITEM 345) WITH TUBE NUT.		
287	BACE21BN0606J	. ELBOW		1
289	AS3581-906	. PACKING		1
291	AS5179J06	. JAMNUT		1
293	MS28773-06	. RETAINER		1
295	332T4710-129	. TUBE ASSY		1
295	332T4710-8	. TUBE ASSY (REPLACED BY 332T4710-129)	LTD	-
		SECURE TUBE ASSY (295) WITH ITEMS (300 THRU 320).		
300	TA027016-06	. CLAMP (V84971)	VEN	1
300	BACC10HS06	. CLAMP (REPLACED BY TA027016-06)	LTD	-
305	BACC10GT2-06	. CLAMPSHELL (USED WITH BACC10HS06) (2 REQD)	LTD	-
310	BACS12HN3U8	. SCREW		1
315	NAS1149C0332R	. WASHER		1
320	BACN10YR3C	. NUT		1

**71-00-02**

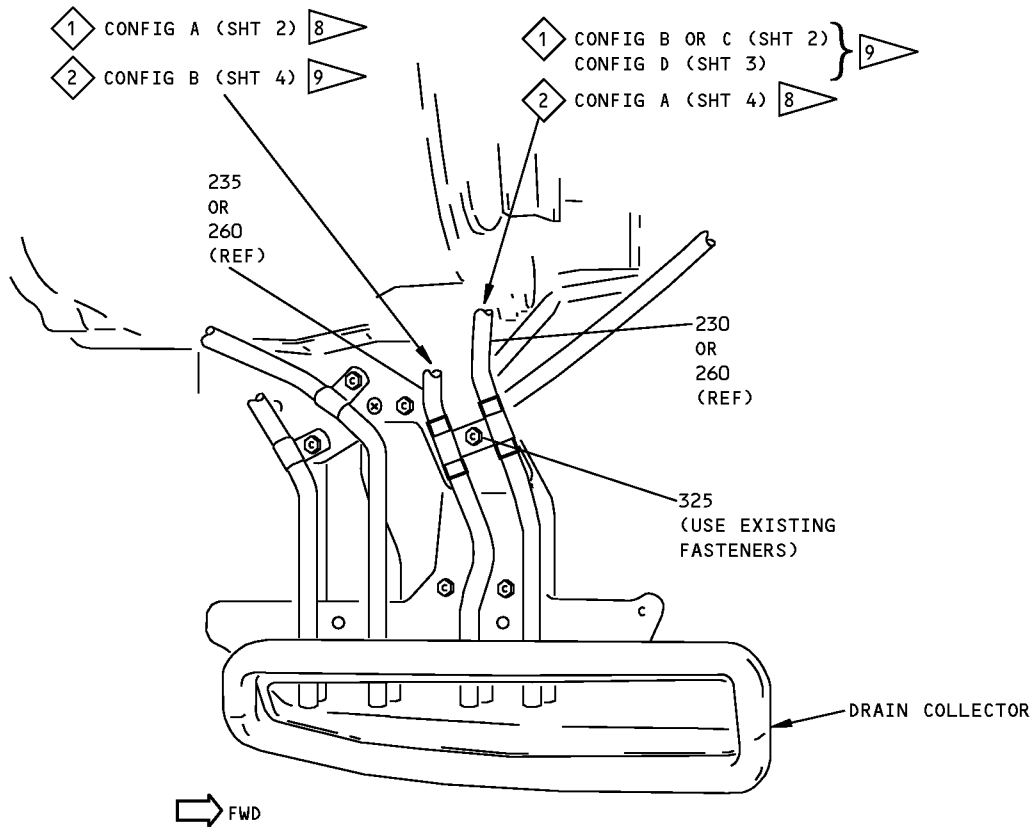
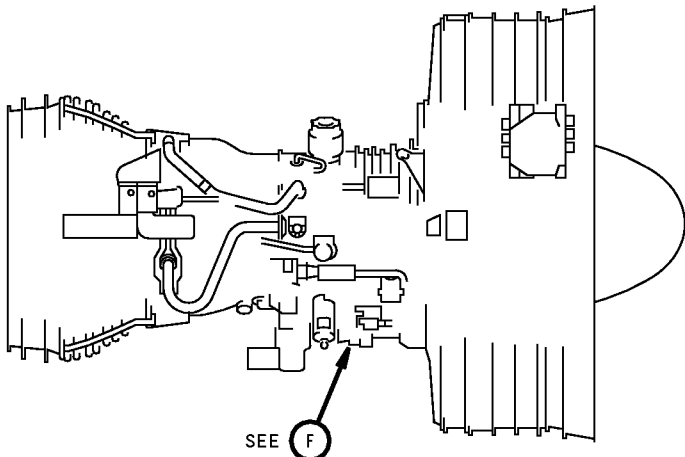
P/P BUILDUP FIGURE 4-3



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**POWERPLANT BUILDUP MANUAL**



 EARLIER CONFIGURATION  
 LATER CONFIGURATION

**F**

**Engine Overboard Drain Installation - Right Side  
Figure 4-3 (Sheet 8)**

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P/P BUILDUP FIGURE 4-3

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**POWERPLANT BUILDUP MANUAL**

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-3		<b>ENGINE OVERBOARD DRAIN INSTALLATION - RIGHT SIDE (FIGURE 4-3, SHEET 8)</b>  ADJUST DRAIN TUBE ENDS TO EXTEND BEYOND COLLECTOR BY 0.3 INCH.  SECURE TUBES (230, 235, OR 260) TO DRAIN COLLECTOR USING ITEM (325) AND EXISTING FASTENERS.		
325	BACC10GT3-06	. CLAMP ASSY		2
325	BACC10GT1-06	. . CLAMP (QTY 1)		
325	BACC10GT2-06	. . CLAMPSHELL (QTY 2)		

**71-00-02**

P/P BUILDUP FIGURE 4-3

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FIGURE 4-4

# OVERBOARD STRUT DRAIN INSTALLATION

REF QEC TASK NO.: 4

REF DWG: 332T4710  
332T4150

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

**71-00-02**

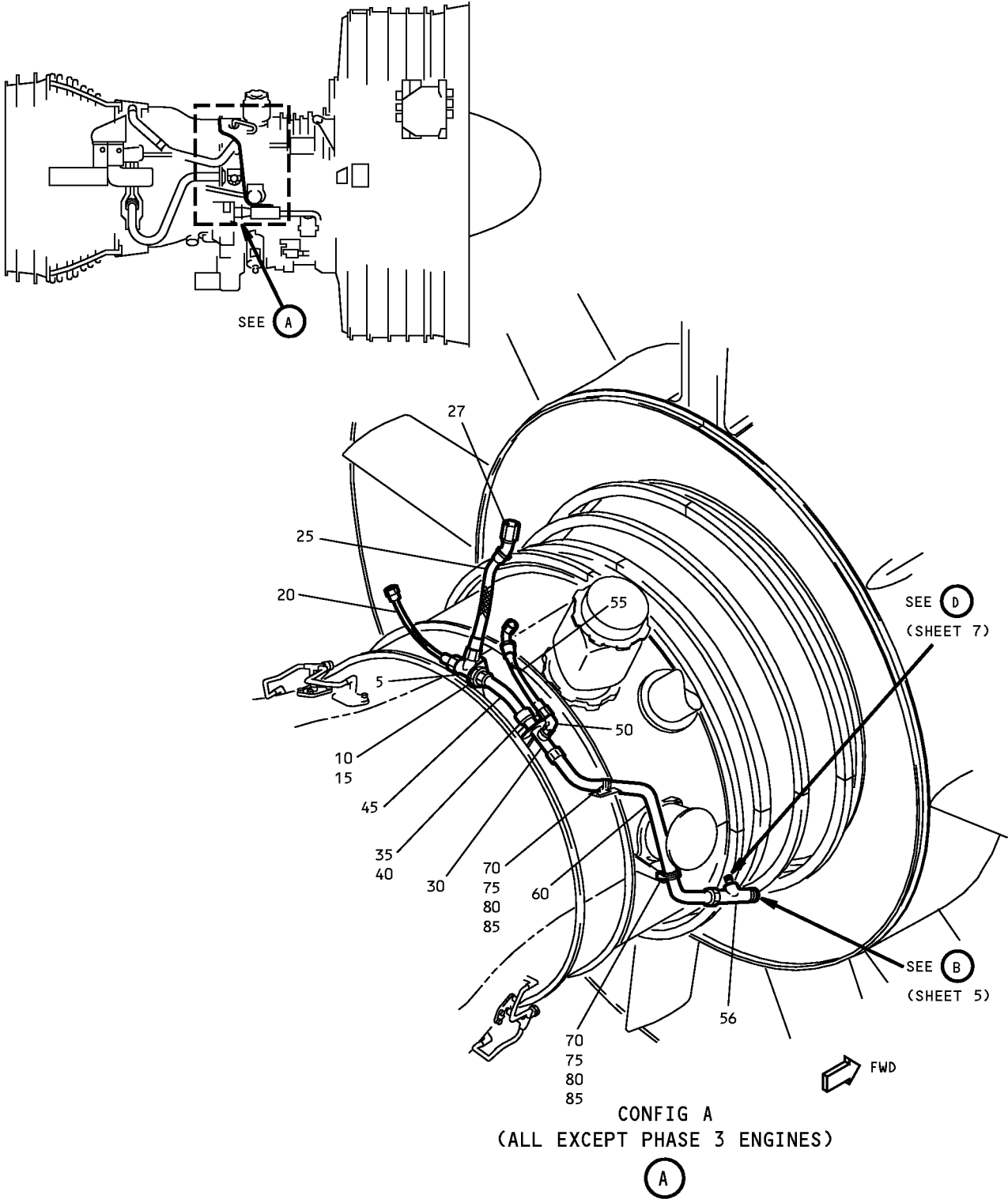
P/P BUILDUP FIGURE 4-4

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Jun 01/2008



**747/767  
POWERPLANT BUILDUP MANUAL**



**Overboard Strut Drain Installation  
Figure 4-4 (Sheet 1)**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-4		<b>OVERBOARD STRUT DRAIN INSTALLATION (FIGURE 4-4, SHEET 1)</b> <u>CONFIGURATION A</u>		
		ATTACH TEE (5) TO ENGINE BRACKET USING ITEMS (10, 15). ATTACH HOSES (20, 25) TO TEE (5). ATTACH ELBOW (27) TO HOSE ASSY (25). . SPACER (REF STANDARD PRACTICES)	LTD	-
1	BACS18AF3			
5	BACT16BN120812J	. TEE (1 REQD)	LTD	-
10	NAS1149C1790R	. WASHER (LOCATE UNDER TEE) (1 REQD)	LTD	-
15	AS5178J12	. NUT (1 REQD)	LTD	-
20	AS136-08N0120L	. HOSE ASSY (1 REQD)	LTD	-
25	AS136-12S0140L	. HOSE ASSY (1 REQD)	LTD	-
25	106494-12-0140	. HOSE ASSY (OPT)	LTD	-
27	BACE21BR1212JN	. ELBOW (1 REQD)	LTD	-
		ATTACH TEE (30) TO ENGINE BRACKET USING ITEMS (35, 40). POSITION TUBE (45) BETWEEN TEES (5, 30).		
30	BACT16BN121208J	. TEE (1 REQD)	LTD	-
35	NAS1149C1790R	. WASHER (LOCATE UNDER TEE) (1 REQD)	LTD	-
40	AS5178J12	. NUT (1 REQD)	LTD	-
45	332T4710-19	. TUBE ASSY (1 REQD)	LTD	-
		POSITION ITEMS (50 THRU 56). SECURE TUBE (60) WITH ITEMS (70 THRU 85).		
50	BACE21BT0808JN	. ELBOW (1 REQD)	LTD	-
55	AS138-08N0086L	. HOSE ASSY (1 REQD)	LTD	-
56	BACT16BL121206J	. TEE (1 REQD)	LTD	-
60	332T4710-18	. TUBE (1 REQD)	LTD	-
70	TA027016-12	. CLAMP (2 REQD)	LTD	-
70	BACC10HS12	. CLAMP (REPLACED BY TA027016-12)	LTD	-
75	BACS12HN3U8	. SCREW (2 REQD)	LTD	-
80	NAS1149C0332R	. WASHER (2 REQD)	LTD	-
85	BACN10YR3C	. NUT (2 REQD)	LTD	-

**71-00-02**

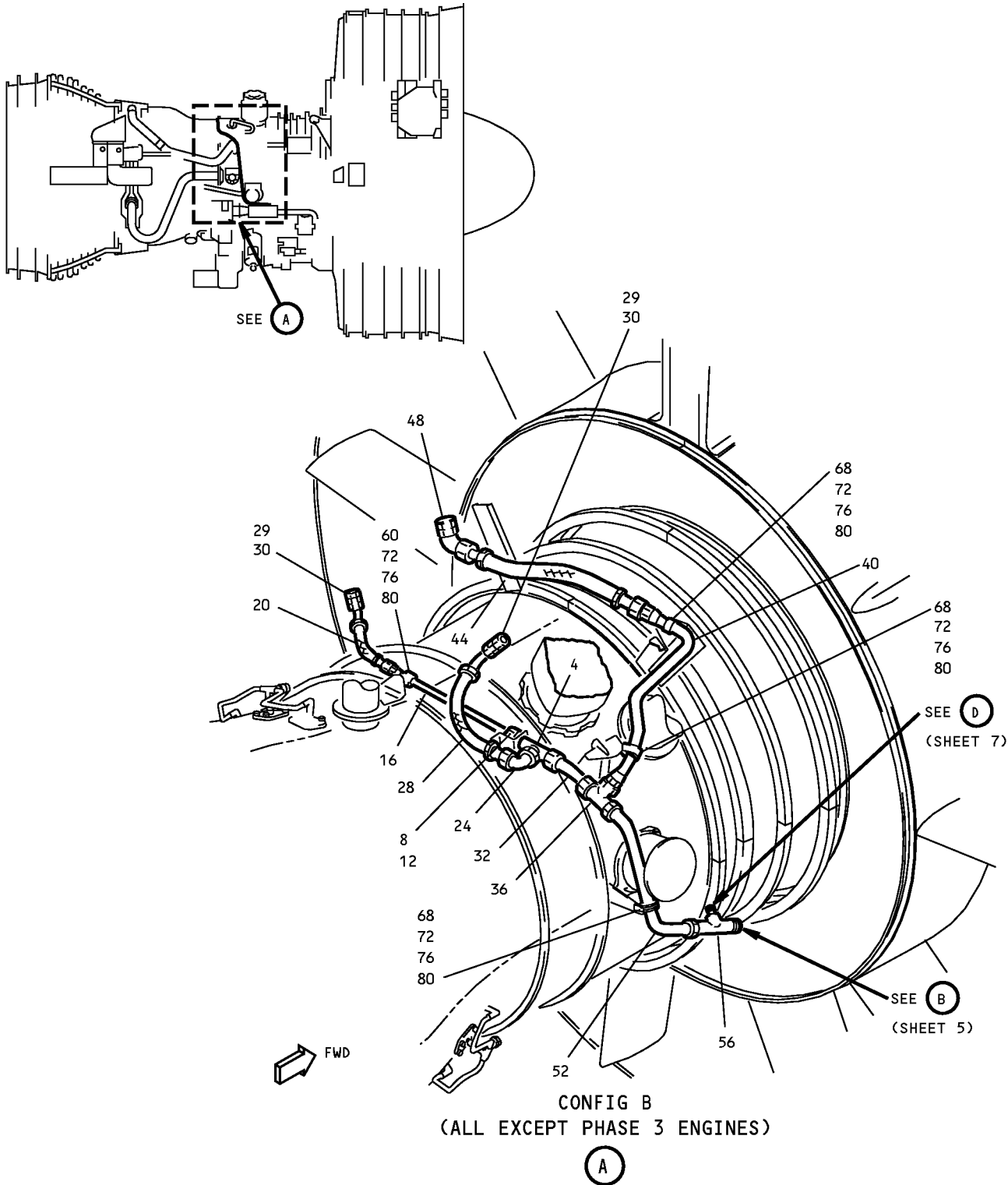
P/P BUILDUP FIGURE 4-4

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**POWERPLANT BUILDUP MANUAL**



**Overboard Strut Drain Installation  
Figure 4-4 (Sheet 2)**

**71-00-02**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-4		<b>OVERBOARD STRUT DRAIN INSTALLATION (FIGURE 4-4, SHEET 2)</b> <u>CONFIGURATION B</u>		
		ATTACH TEE (4) TO ENGINE BRACKET USING ITEMS (8, 12). ATTACH ITEMS (16 THRU 32) TO TEE (4).		
1	BACS18AF3	. SPACER (REF STANDARD PRACTICES)	LTD	-
4	BACT16BN081208J	. TEE (1 REQD)	LTD	-
8	NAS1149C1290R	. WASHER (LOCATE UNDER TEE) (1 REQD)	LTD	-
12	AS5178J08	. NUT (1 REQD)	LTD	-
16	332T4710-86	. TUBE (1 REQD)	LTD	-
16	332T4710-51	. TUBE (REPLACED BY 332T4710-86)	LTD	-
20	AS137-08N0063L	. HOSE (1 REQD)	LTD	-
20	106495-08-0063	. HOSE (OPT)	LTD	-
24	BACE21BT0808JN	. ELBOW (1 REQD)	LTD	-
28	AS138-08N0095L	. HOSE (1 REQD)	LTD	-
28	AS138-08N0086L	. HOSE	LTD	-
29	MS21902J8	. UNION (2 REQD)	LTD	-
30	AS3581-908	. PACKING (2 REQD)	LTD	-
32	332T4710-68	. TUBE (1 REQD)	LTD	-
32	332T4710-52	. TUBE (REPLACED BY 332T4710-68)	LTD	-
		ATTACH ITEMS (36 THRU 56). SECURE TUBES (16, 40, 52) WITH ITEMS (60 THRU 80).		
36	BACT16BT121212JN	. TEE (1 REQD)	LTD	-
40	332T4710-66	. TUBE (1 REQD)	LTD	-
40	332T4710-53	. TUBE (REPLACED BY 332T4710-66)	LTD	-
44	AS136-12S0094L	. HOSE (1 REQD)	LTD	-
44	106494-12-0094	. HOSE (OPT)	LTD	-
48	332T4711-1	. ELBOW (1 REQD)	LTD	-
52	332T4710-54	. TUBE (1 REQD)	LTD	-
56	BACT16BL121206J	. TEE (1 REQD)	LTD	-
60	BACC10GT3-08	. CLAMP ASSY (1 REQD)	LTD	-
60	BACC10GT1-08	. . CLAMP (QTY 1)		
60	BACC10GT2-08	. . CLAMPSHELL (QTY 2)		
68	TA027016-12	. CLAMP (3 REQD)	LTD	-
68	BACC10HS12	. CLAMP (REPLACED BY TA027016-12)	LTD	-
72	BACS12HN3U8	. SCREW (4 REQD)	LTD	-
76	NAS1149C0332R	. WASHER (4 REQD)	LTD	-
80	BACN10YR3C	. NUT (4 REQD)	LTD	-

**71-00-02**

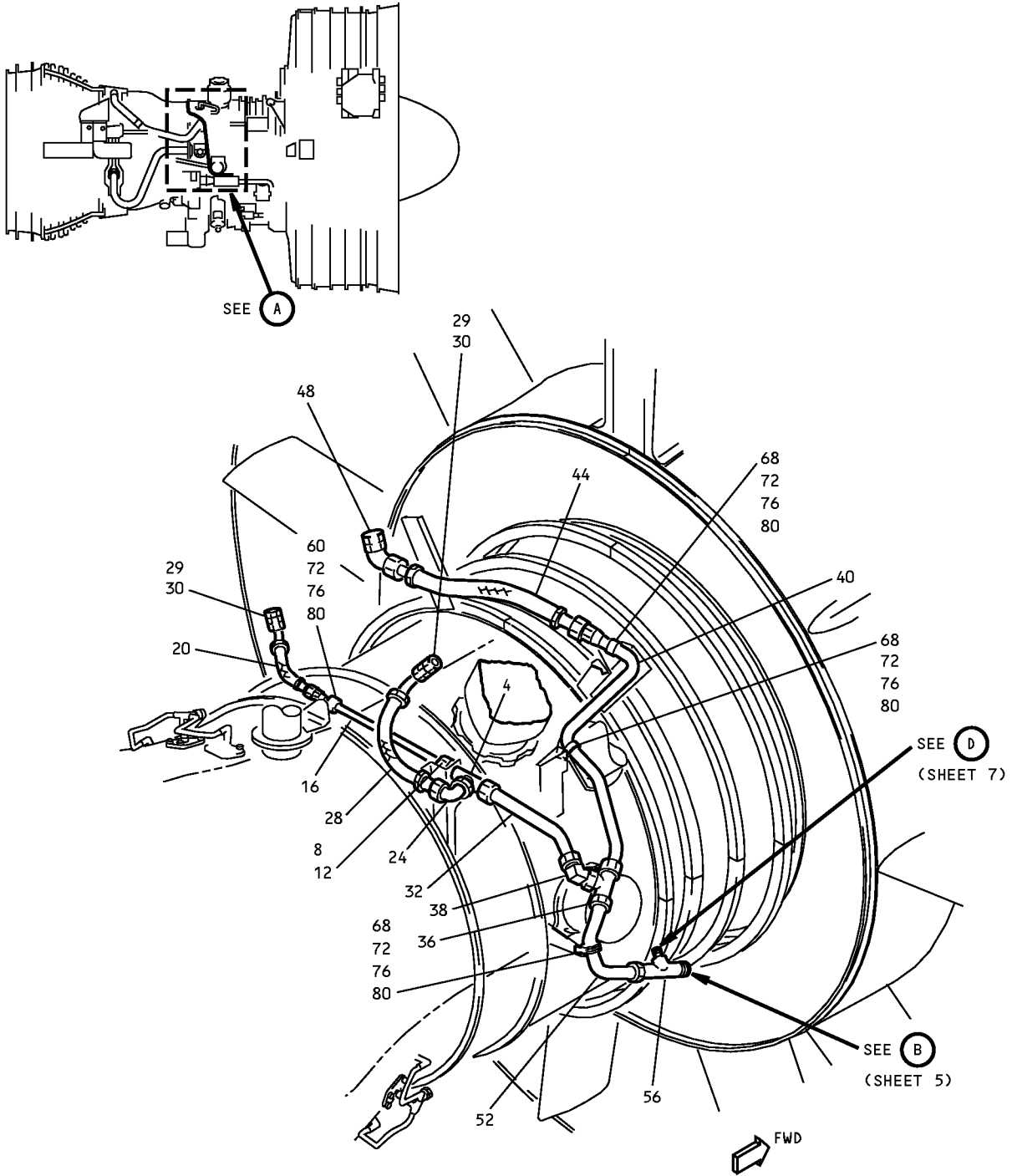
P/P BUILDUP FIGURE 4-4

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**POWERPLANT BUILDUP MANUAL**



CONFIG C  
(ON PHASE 3 ENGINES)

(A)

**Overboard Strut Drain Installation  
Figure 4-4 (Sheet 3)**

**71-00-02**

P/P BUILDUP FIGURE 4-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-4		<b>OVERBOARD STRUT DRAIN INSTALLATION (FIGURE 4-4, SHEET 3)</b> <u>CONFIGURATION C</u>		
		ATTACH TEE (4) TO ENGINE BRACKET USING ITEMS (8, 12). ATTACH ITEMS (16 THRU 32) TO TEE (4).		
1	BACS18AF3	. SPACER (REF STANDARD PRACTICES)	LTD	-
4	BACT16BN081208J	. TEE (1 REQD)	LTD	-
8	NAS1149C1290R	. WASHER (LOCATE UNDER TEE) (1 REQD)	LTD	-
12	AS5178J08	. NUT (1 REQD)	LTD	-
16	332T4710-86	. TUBE (1 REQD)	LTD	-
20	AS137-08N0063L	. HOSE (1 REQD)	LTD	-
20	106495-08-0063	. HOSE (OPT)	LTD	-
24	BACE21BT0808JN	. ELBOW (1 REQD)	LTD	-
28	AS138-08N0095L	. HOSE (1 REQD)	LTD	-
29	MS21902J8	. UNION (2 REQD)	LTD	-
30	AS3581-908	. PACKING (2 REQD)	LTD	-
32	332T4710-92	. TUBE (1 REQD)	LTD	-
		ATTACH ITEMS (36 THRU 56). SECURE TUBES (16, 40, 52) WITH ITEMS (60 THRU 80).		
36	BACT16BL121212J	. TEE (1 REQD)	LTD	-
38	BACE21BR1212JN	. ELBOW (1 REQD)	LTD	-
40	332T4710-90	. TUBE (1 REQD)	LTD	-
44	AS136-12S0094L	. HOSE (1 REQD)	LTD	-
44	106494-12-0094	. HOSE (OPT)	LTD	-
48	332T4711-1	. ELBOW (1 REQD)	LTD	-
52	332T4710-88	. TUBE (1 REQD)	LTD	-
56	BACT16BL121206J	. TEE (1 REQD)	LTD	-
60	BACC10GT3-08	. CLAMP ASSY (1 REQD)	LTD	-
60	BACC10GT1-08	. . CLAMP (QTY 1)		
60	BACC10GT2-08	. . CLAMPSHELL (QTY 2)		
68	TA027016-12	. CLAMP (3 REQD)	LTD	-
72	BACS12HN3U8	. SCREW (4 REQD)	LTD	-
76	NAS1149C0332R	. WASHER (4 REQD)	LTD	-
80	BACN10YR3C	. NUT (4 REQD)	LTD	-

**71-00-02**

P/P BUILDUP FIGURE 4-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-4		<b>OVERBOARD STRUT DRAIN INSTALLATION (FIGURE 4-4, SHEET 4)</b> <u>CONFIGURATION D</u> POSITION ITEMS (5 THRU 30) ON ENGINE BRACKETS.		
5	332T4723-3	. TUBE ASSY		1
10	332T4723-1	. TUBE ASSY		1
20	332T4710-141	. TUBE ASSY		1
25	AS136-12S0094L	. HOSE ASSY		1
25	106494-12-0094	. HOSE ASSY (V78570) (OPT)	VEN	-
30	332T4711-1	. ELBOW		1
		SECURE TUBE ASSYS (5, 10, 20) WITH ITEMS (60 THRU 80).		
60	TA0910058-12	. CLAMP (V84971)	VEN	2
65	TA027016-12	. CLAMP (V84971)	VEN	2
70	BACS12HN3U8	. SCREW		6
75	NAS1149C0332R	. WASHER		6
80	BACN10YR3C	. NUT		6
		PLACE ITEM (-90, NOT ILLUSTRATED) IN A BAG AND SECURE TO TUBE ASSY (10).		
		<b>NOTE:</b> ITEM (-90) IS INSTALLED WHEN POWERPLANT IS ATTACHED TO STRUT (AMM 71-00-02/401).		
-90	AS138-08N0095L	. HOSE (POST-SB 747-71-2303/767-71-0104) <sup>*[1]</sup>		1
-90	AS136-08N0077L	. HOSE (PRE-SB 747-71-2303/767-71-0104) <sup>*[1]</sup>	LTD	-
		*[1] USAGE IS DEPENDANT ON STRUT RACEWAY DRAIN FITTING. REFER TO SB 747-54-2215 OR SB 747-71-2302/767-71-0102 FOR DETAILED INFORMATION.		

**71-00-02**

P/P BUILDUP FIGURE 4-4

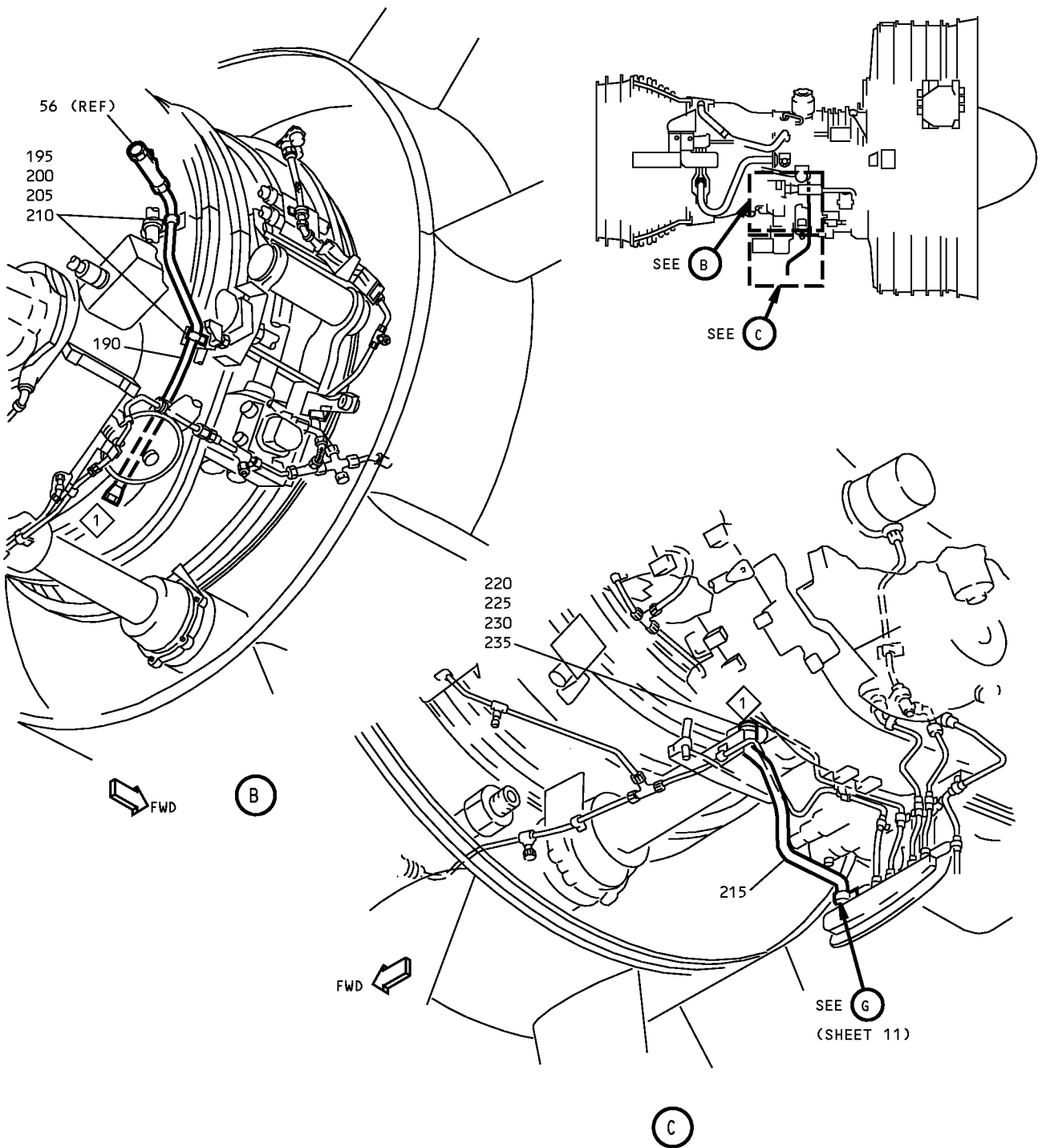
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**POWERPLANT BUILDUP MANUAL**



CONFIG A, OR B, OR C

**Overboard Strut Drain Installation**  
**Figure 4-4 (Sheet 5)**

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P/P BUILDUP FIGURE 4-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-4		<b>OVERBOARD STRUT DRAIN INSTALLATION (FIGURE 4-4, SHEET 5)</b> <u>CONFIGURATION A, OR B, OR C</u> <u>(PRE-SB 747-71-2303/767-71-0104)</u>		
		ATTACH TUBE ASSY (190) TO TEE (56) AND SECURE WITH ITEMS (195 THRU 210).		
190	332T4710-50	. TUBE ASSY (1 REQD)	LTD	-
195	TA027016-12	. CLAMP (2 REQD)	LTD	-
195	BACC10HS12	. CLAMP (REPLACED BY TA027016-12)	LTD	-
200	BACS12HN3U9	. SCREW (2 REQD)	LTD	-
205	NAS1149C0332R	. WASHER (2 REQD)	LTD	-
210	BACN10YR3C	. NUT (2 REQD)	LTD	-
		ATTACH TUBE ASSY (215) TO TUBE ASSY (190) AND SECURE WITH ITEMS (220 THRU 235).		
215	332T4710-63	. TUBE ASSY (1 REQD)	LTD	-
220	TA027016-12	. CLAMP (1 REQD)	LTD	-
220	BACC10HS12	. CLAMP (REPLACED BY TA027016-12)	LTD	-
225	BACS12HN3U9	. SCREW (1 REQD)	LTD	-
230	NAS1149C0332R	. WASHER (1 REQD)	LTD	-
235	BACN10YR3C	. NUT (1 REQD)	LTD	-

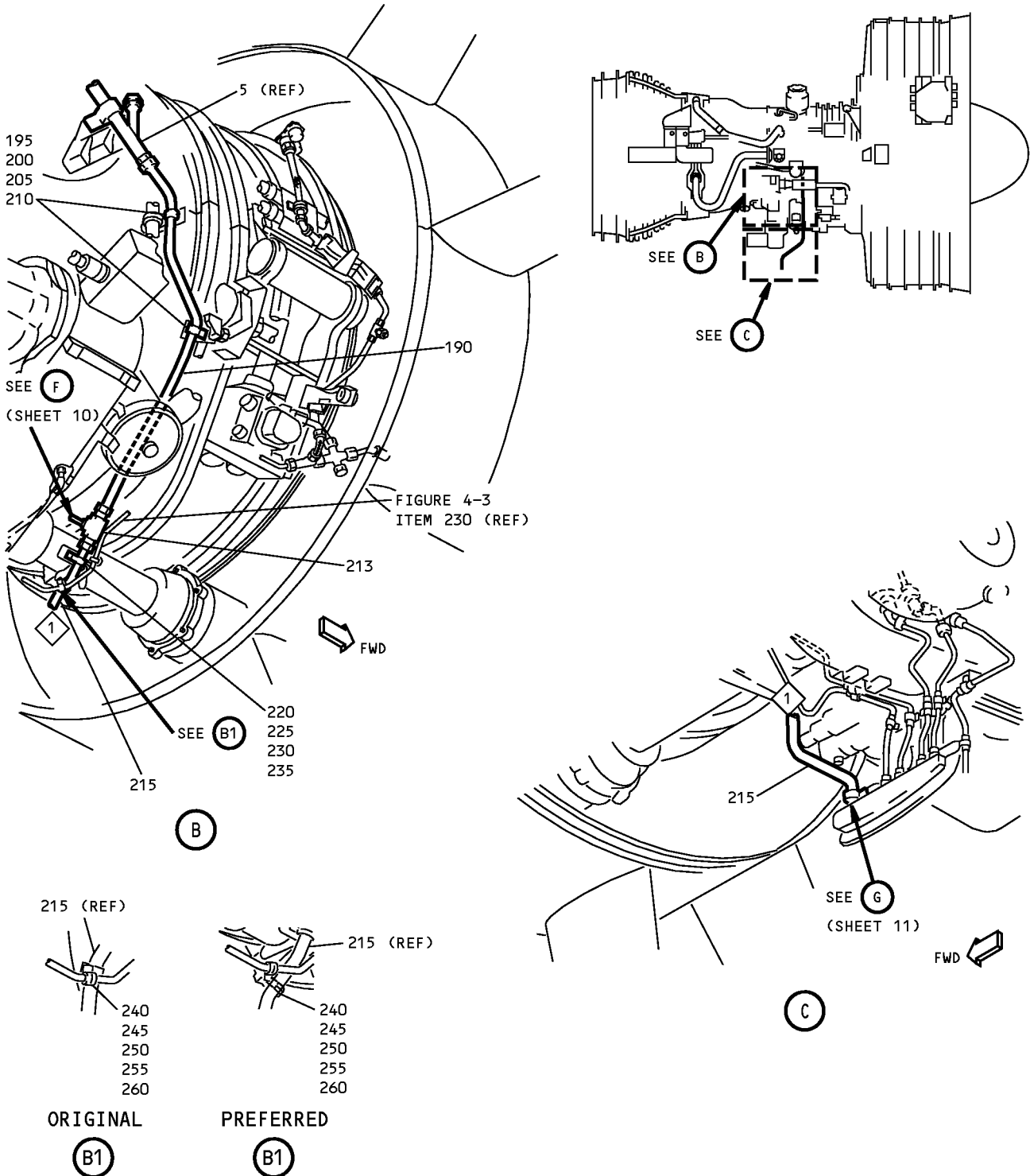
**71-00-02**

P/P BUILDUP FIGURE 4-4

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**CONFIG D  
(ON PHASE 3 ENGINES)**

**Overboard Strut Drain Installation  
Figure 4-4 (Sheet 6)**

**71-00-02**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-4		<b>OVERBOARD STRUT DRAIN INSTALLATION (FIGURE 4-4, SHEET 6)</b>  CONFIGURATION D <u>(POST-SB 747-71-2303/767-71-0104)</u>  ATTACH TUBE ASSY (190) TO TUBE ASSY (5) AND SECURE WITH ITEMS (195 THRU 210).		
190	332T4710-149	. TUBE ASSY		1
190	332T4710-148	. TUBE ASSY (REPLACED BY 332T4710-149)	LTD	-
190	332T4710-144	. TUBE ASSY (REPLACED BY 332T4710-149)	LTD	-
195	TA027016-12	. CLAMP (V84971)	VEN	2
200	BACS12HN3U9	. SCREW		2
205	NAS1149C0332R	. WASHER		2
210	BACN10YR3C	. NUT		2
		ATTACH TEE (213) AND TUBE ASSY (215) TO TUBE ASSY (190). SECURE TUBE ASSY (215) WITH ITEMS (220 THRU 235).		
213	BACT16BL121208J	. TEE		1
215	332T4710-150	. TUBE ASSY		1
215	332T4710-145	. TUBE ASSY (REPLACED BY 332T4710-150)	LTD	-
220	TA027016-12	. CLAMP (V84971)	VEN	1
225	BACS12HN3U9	. SCREW		1
230	NAS1149C0332R	. WASHER		1
235	BACN10YR3C	. NUT		1
		SECURE TUBE ASSY (REF: ENGINE OVERBOARD DRAIN INSTALLATION - RIGHT SIDE/Figure 4-3, ITEM 230) TO TUBE ASSY (215) WITH ITEMS (240 THRU 260).		
240	TA027016-12	. CLAMP (V84971)	VEN	1
245	TA027016-06	. CLAMP (V84971)	VEN	1
250	BACS12HN3U9	. SCREW		1
255	NAS1149C0332R	. WASHER		1
260	BACN10YR3C	. NUT		1

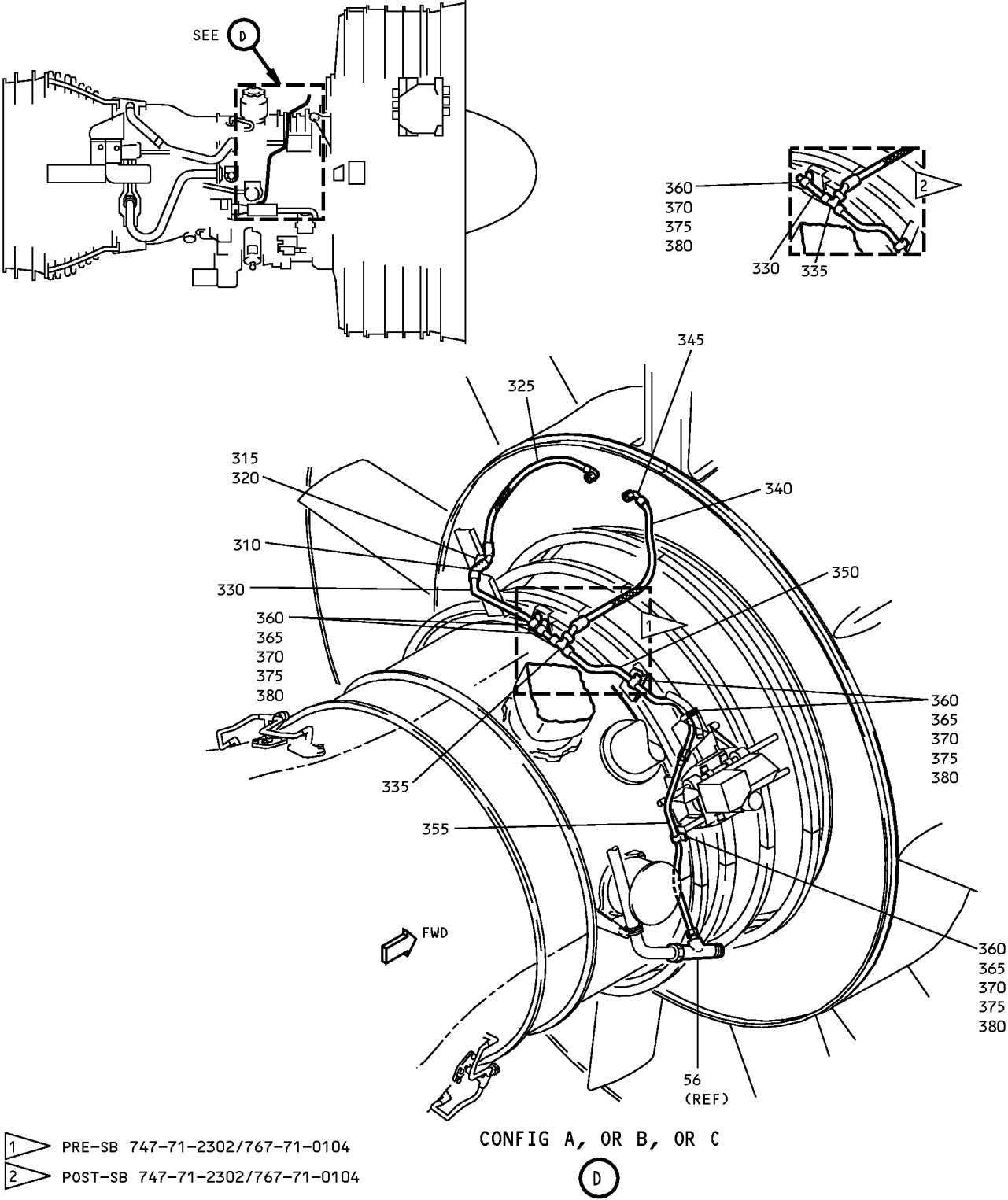
**71-00-02**

P/P BUILDUP FIGURE 4-4

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POWERPLANT BUILDUP MANUAL**



**Overboard Strut Drain Installation  
Figure 4-4 (Sheet 7)**

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P/P BUILDUP FIGURE 4-4  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-4		<b>OVERBOARD STRUT DRAIN INSTALLATION (FIGURE 4-4, SHEET 7)</b>  CONFIGURATION A, OR B, OR C <u>PRE-SB 747-71-2303/767-71-0104;</u>  ATTACH ELBOW (310) TO ENGINE BRACKET USING ITEMS (315, 320). ATTACH HOSE ASSY (325) AND TUBE ASSY (330) TO ELBOW (310).  <b>NOTE:</b> DRAIN LINE ROUTED DOWN LEFT SIDE OF ENGINE ON POST-SB CONFIGURATION (REF SHEET 9).		
310	BACE21BM0606J	. ELBOW (1 REQD)	LTD	-
315	NAS1149C0963R	. WASHER (1 REQD)	LTD	-
320	AS5178J06	. NUT (1 REQD)	LTD	-
325	AS140G164-230	. HOSE ASSY (1 REQD)	LTD	-
325	BACH7C0164KT230	. HOSE ASSY (OPT)	LTD	-
325	AS140G172-230	. HOSE ASSY (REPLACED BY AS140G164-230)	LTD	-
330	332T4710-38	. TUBE ASSY (1 REQD) <sup>[1]</sup>	LTD	-
		ATTACH TUBE ASSY (330) AND HOSE ASSY (340) TO TEE (335). ATTACH ELBOW (345) TO HOSE ASSY (340). ATTACH TUBE ASSY (350) TO TEE (335). POSITION TUBE ASSY (355) AND ATTACH TO TEE (56) AND TUBE ASSY (350). SECURE TO ENGINE BRACKETS USING ITEMS (360 THRU 380).		
330	332T4723-10	. TUBE ASSY (1 REQD) <sup>[2]</sup>	LTD	-
335	BACT16BL060606J	. TEE (1 REQD)	LTD	-
340	AS139G140S240	. HOSE ASSY (1 REQD)	LTD	-
340	BACH7C0140KK240	. HOSE ASSY (OPT)	LTD	-
345	BACE21BT0606JN	. ELBOW (1 REQD)	LTD	-
350	332T4710-39	. TUBE ASSY (1 REQD)	LTD	-
355	332T4710-33	. TUBE ASSY (1 REQD)	LTD	-
360	TA027016-06	. CLAMP (4 REQD) <sup>[3]</sup>	LTD	-
360	BACC10HS06	. CLAMP (REPLACED BY TA027016-06)	LTD	-
365	BACC10GT2-06	. CLAMPSHELL (USED WITH BACC10HS06) (10 REQD)	LTD	-
370	BACS12HN3U8	. SCREW (4 REQD) <sup>[3]</sup>	LTD	-
375	NAS1149C0332R	. WASHER (4 REQD) <sup>[3]</sup>	LTD	-
380	BACN10YR3C	. NUT (4 REQD) <sup>[3]</sup>	LTD	-
		*[3] QTY 5 REQD FOR PRE-SB CONFIGURATION *[2] POST-SB 747-71-2303/767-71-0104 *[1] PRE-SB 747-71-2303/767-71-0104		

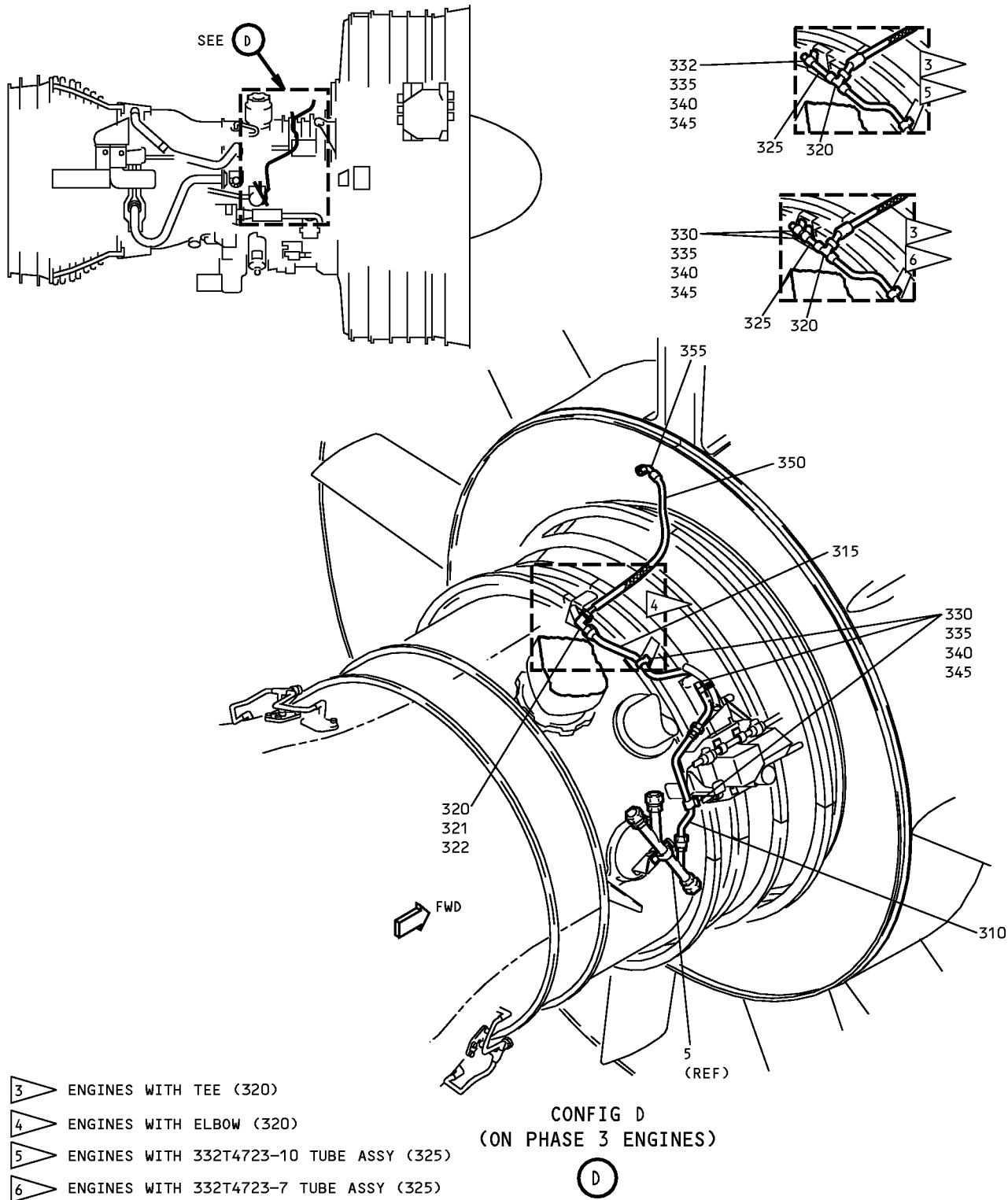
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P/P BUILDUP FIGURE 4-4

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**POWERPLANT BUILDUP MANUAL**



- 3 ENGINES WITH TEE (320)
- 4 ENGINES WITH ELBOW (320)
- 5 ENGINES WITH 332T4723-10 TUBE ASSY (325)
- 6 ENGINES WITH 332T4723-7 TUBE ASSY (325)

**Overboard Strut Drain Installation  
Figure 4-4 (Sheet 8)**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-4		<b>OVERBOARD STRUT DRAIN INSTALLATION (FIGURE 4-4, SHEET 8)</b> <u>CONFIGURATION D</u> ATTACH ITEMS (310 THRU 325) TO TUBE ASSY (5) AND SECURE WITH ITEMS (330 THRU 345).		
310	332T4710-143	. TUBE ASSY		1
315	332T4710-142	. TUBE ASSY		1
320	BACE21BN0608J	. ELBOW		1
320	BACT16BL080806J	. TEE (REPLACED BY BACE21BN0608J) <sup>[4]</sup>	LTD	-
320	BACT16BL080606J	. TEE (REPLACED BY BACE21BN0608J) <sup>[3]</sup>	LTD	-
321	NAS1149C0963R	. WASHER (UNDER ELBOW) <sup>[2]</sup>		1
322	AS5178J06	. JAMNUT <sup>[2]</sup>		1
325	332T4723-7	. TUBE ASSY (1 REQD) <sup>[1]</sup>	LTD	-
325	332T4723-10	. TUBE ASSY (REPLACED BY 332T4723-7) (1 REQD) <sup>[1]</sup>	LTD	-
330	TA027016-08	. CLAMP (V84971) <sup>[2]</sup>	VEN	3
330	TA027016-08	. CLAMP (V84971) (5 REQD) <sup>[1]*[4]</sup>	LTD	-
330	TA027016-08	. CLAMP (V84971) (3 REQD) <sup>[1]*[3]</sup>	LTD	-
332	TA027016-06	. CLAMP (V84971) (1 REQD) <sup>[1]*[3]</sup>	LTD	-
335	BACS12HN3U8	. SCREW <sup>[2]</sup>		3
335	BACS12HN3U8	. SCREW (5 REQD) <sup>[1]*[4]</sup>	LTD	-
335	BACS12HN3U8	. SCREW (4 REQD) <sup>[1]*[3]</sup>	LTD	-
340	NAS1149C0332R	. WASHER <sup>[2]</sup>		3
340	NAS1149C0332R	. WASHER (5 REQD) <sup>[1]*[4]</sup>	LTD	-
340	NAS1149C0332R	. WASHER (4 REQD) <sup>[1]*[3]</sup>	LTD	-
345	BACN10YR3C	. NUT <sup>[2]</sup>		3
345	BACN10YR3C	. NUT (5 REQD) <sup>[1]*[4]</sup>	LTD	-
345	BACN10YR3C	. NUT (4 REQD) <sup>[1]*[3]</sup>	LTD	-
		*[4] ENGINES WITH 332T4723-7 TUBE ASSY (325) *[3] ENGINES WITH 332T4723-10 TUBE ASSY (325) *[2] ENGINES WITH ELBOW (320) (LATER CONFIG.) *[1] ENGINES WITH TEE (320) (EARLIER CONFIG.)		
		ATTACH ITEMS (350, 355) TO TEE (320) OR ELBOW (320).		
350	AS139G140S240	. HOSE ASSY		1
350	BACH7C0140KK240	. HOSE ASSY (OPT)	OPT	-
355	BACE21BT0606JN	. ELBOW		1

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P/P BUILDUP FIGURE 4-4

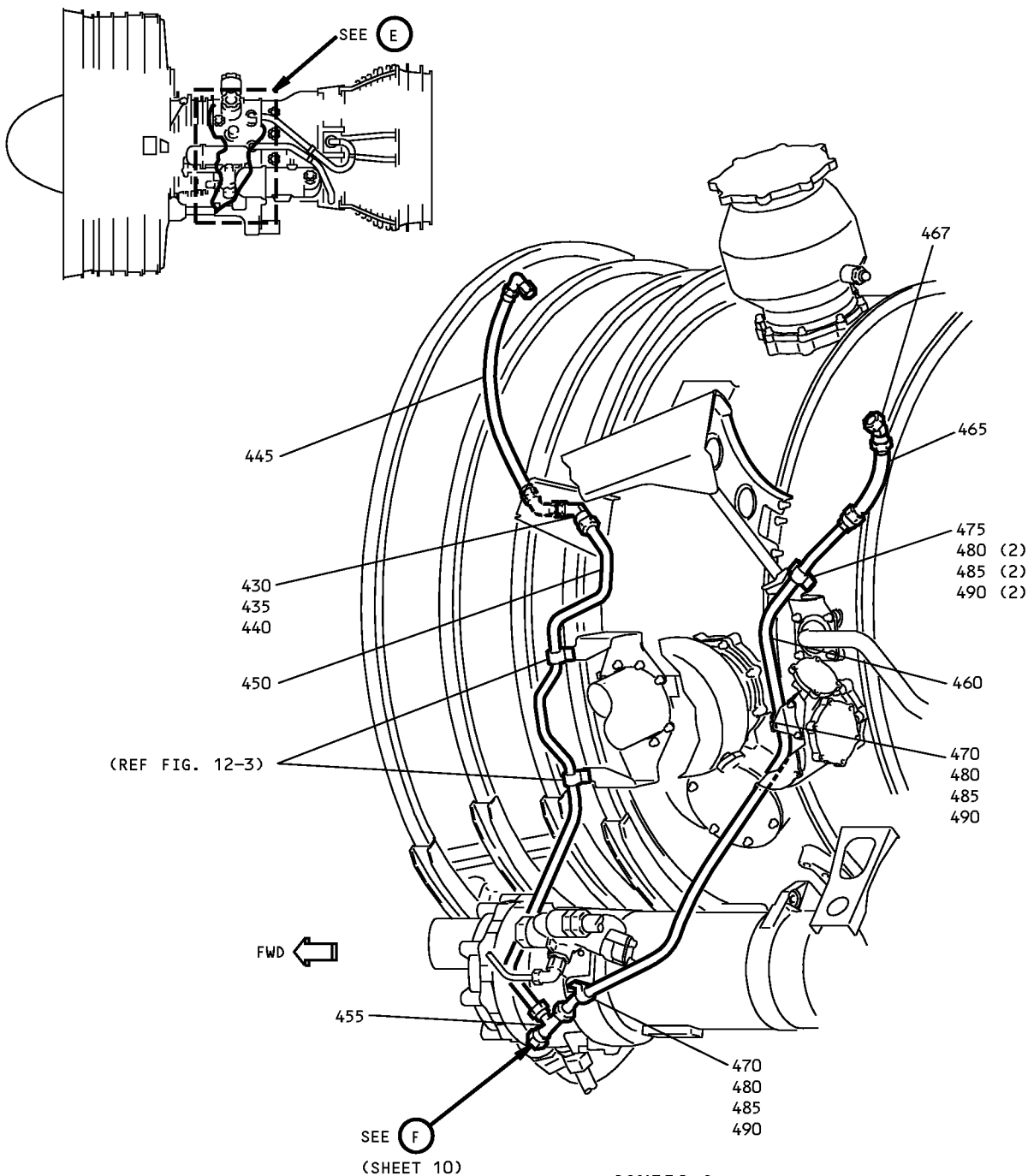
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CONFIG D  
(ON PHASE 3 ENGINES)

(E)

**Overboard Strut Drain Installation**  
**Figure 4-4 (Sheet 9)**

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P/P BUILDUP FIGURE 4-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-4		<b>OVERBOARD STRUT DRAIN INSTALLATION (FIGURE 4-4, SHEET 9)</b>  <u>CONFIGURATION D (CONTINUED)</u> <u>(POST-SB 747-71-2303/767-71-0104)</u>		
		ATTACH ELBOW (430) TO ENGINE BRACKET USING ITEMS (435, 440). ATTACH ITEMS (445 THRU 455) TO ELBOW (430).		
425	BACS18AF3	. SPACER (REF STANDARD PRACTICES)		AR
430	BACE21BM0608J	. ELBOW		1
435	NAS1149C0963R	. WASHER (LOCATE UNDER TEE)		1
440	AS5178J06	. NUT		1
445	AS140G164-230	. HOSE ASSY		1
445	BACH7C0164KT230	. HOSE ASSY (OPT)	OPT	-
450	332T4710-138	. TUBE ASSY		1
455	BACT16BL080808J	. TEE		1
		ATTACH ITEMS (460, 465) TO TEE (455). ATTACH ELBOW (467) TO HOSE (465).		
460	332T4710-139	. TUBE ASSY		1
465	AS136-08N0080L	. HOSE		1
467	BACE21BR0808JN	. ELBOW		1
		SECURE TUBE ASSY (460) WITH ITEMS (470 THRU 490).		
470	TA027016-08	. CLAMP (V84971)	VEN	2
475	TA0910058-08	. CLAMP (V84971)	VEN	1
480	BACS12HN3U8	. SCREW		4
485	NAS1149C0332R	. WASHER		4
490	BACN10YR3C	. NUT		4

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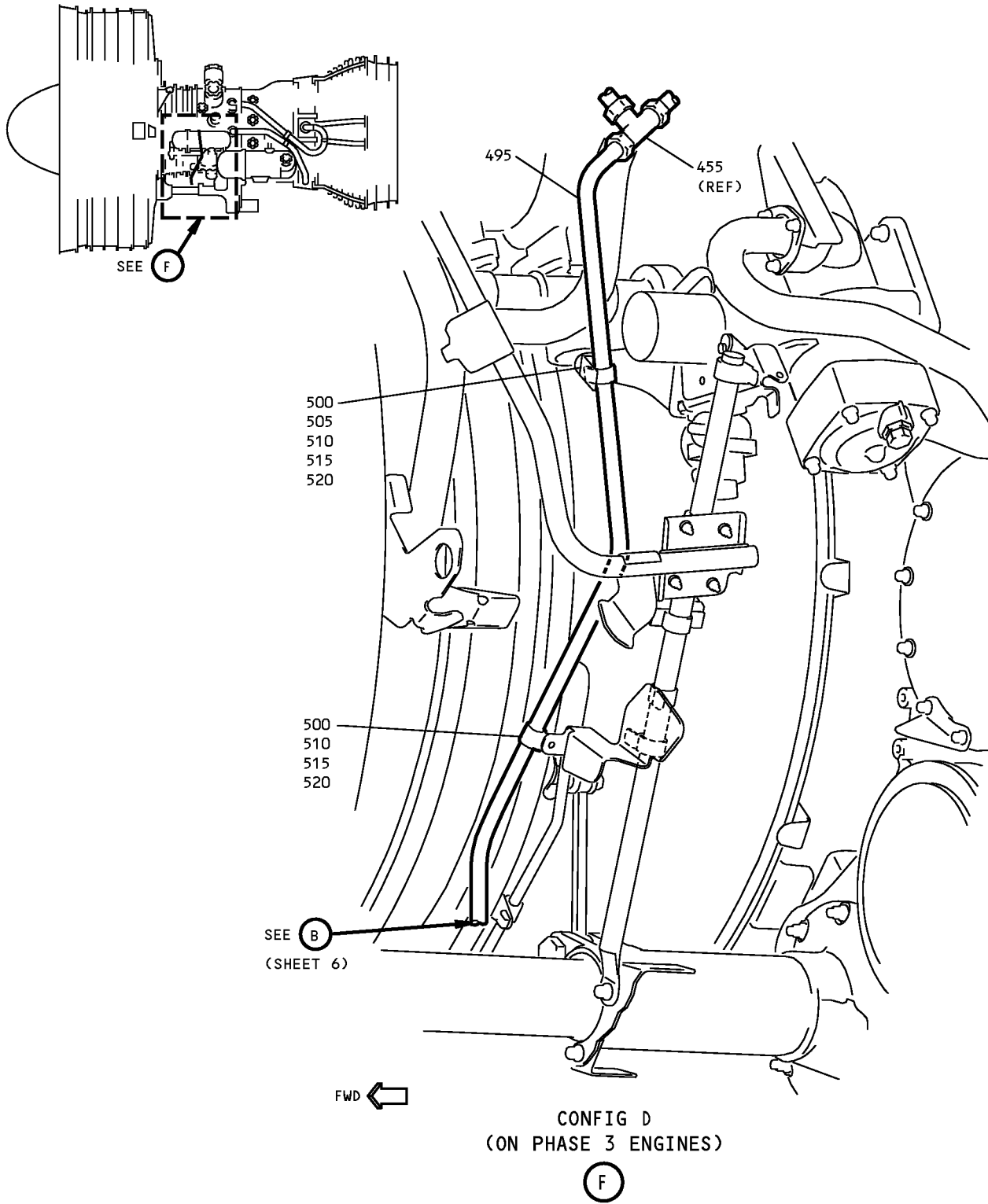
P/P BUILDUP FIGURE 4-4

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**Overboard Strut Drain Installation  
Figure 4-4 (Sheet 10)**

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P/P BUILDUP FIGURE 4-4  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-4		<b>OVERBOARD STRUT DRAIN INSTALLATION (FIGURE 4-4, SHEET 10)</b>  <u>CONFIGURATION D (CONTINUED)</u> <u>(POST-SB 747-71-2303/767-71-0104)</u>		
495	332T4710-140	ATTACH TUBE ASSY (495) TO TEE (455). . TUBE ASSY		1
500	TA027016-08	SECURE TUBE ASSY (495) WITH ITEMS (500 THRU 520). . CLAMP (V84971)	VEN	2
505	332T4922-680	. BRACKET		1
510	BACS12HN3U8	. SCREW		2
515	NAS1149C0332R	. WASHER		2
520	BACN10YR3C	. NUT		2

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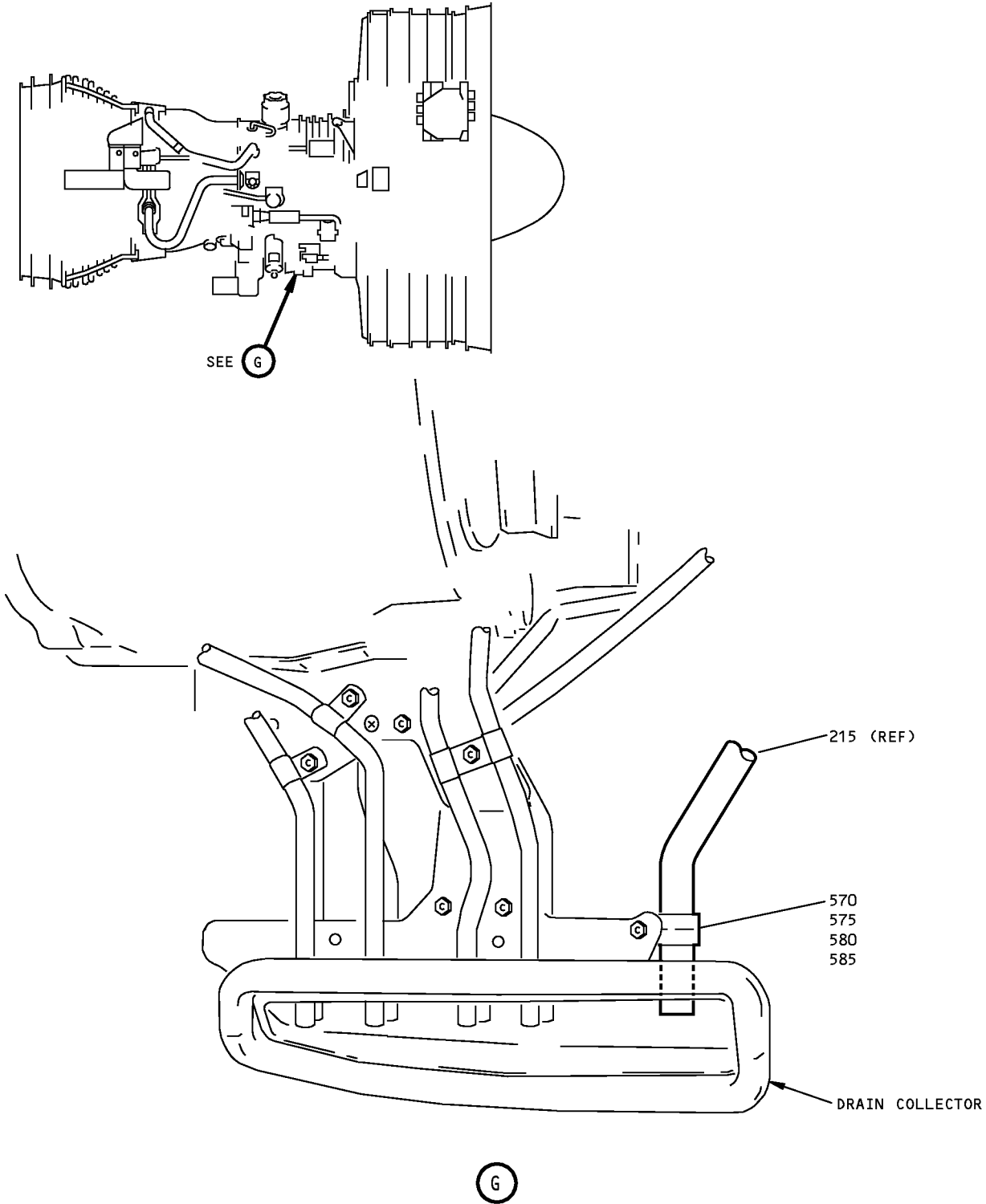
P/P BUILDUP FIGURE 4-4

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Overboard Strut Drain Installation  
Figure 4-4 (Sheet 11)

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P/P BUILDUP FIGURE 4-4  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
4-4		<b>OVERBOARD STRUT DRAIN INSTALLATION (FIGURE 4-4, SHEET 11)</b>  ADJUST END OF TUBE ASSY (215) TO EXTEND BEYOND COLLECTOR BY 0.3 INCH.  SECURE TUBE ASSY (215) TO DRAIN COLLECTOR USING ITEMS (570 THRU 585).		
570	TA0310020-12	. CLAMP (V84971)	VEN	1
575	BACS12HN3U8	. SCREW		1
580	NAS1149C0332R	. WASHER		1
585	BACN10YR3C	. NUT		1

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P/P BUILDUP FIGURE 4-4

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FIGURE 5-1

# LOWER THERMAL RADIATION SHIELD INSTALLATION

REF QEC TASK NO.: 5

REF DWG: 332T4520

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

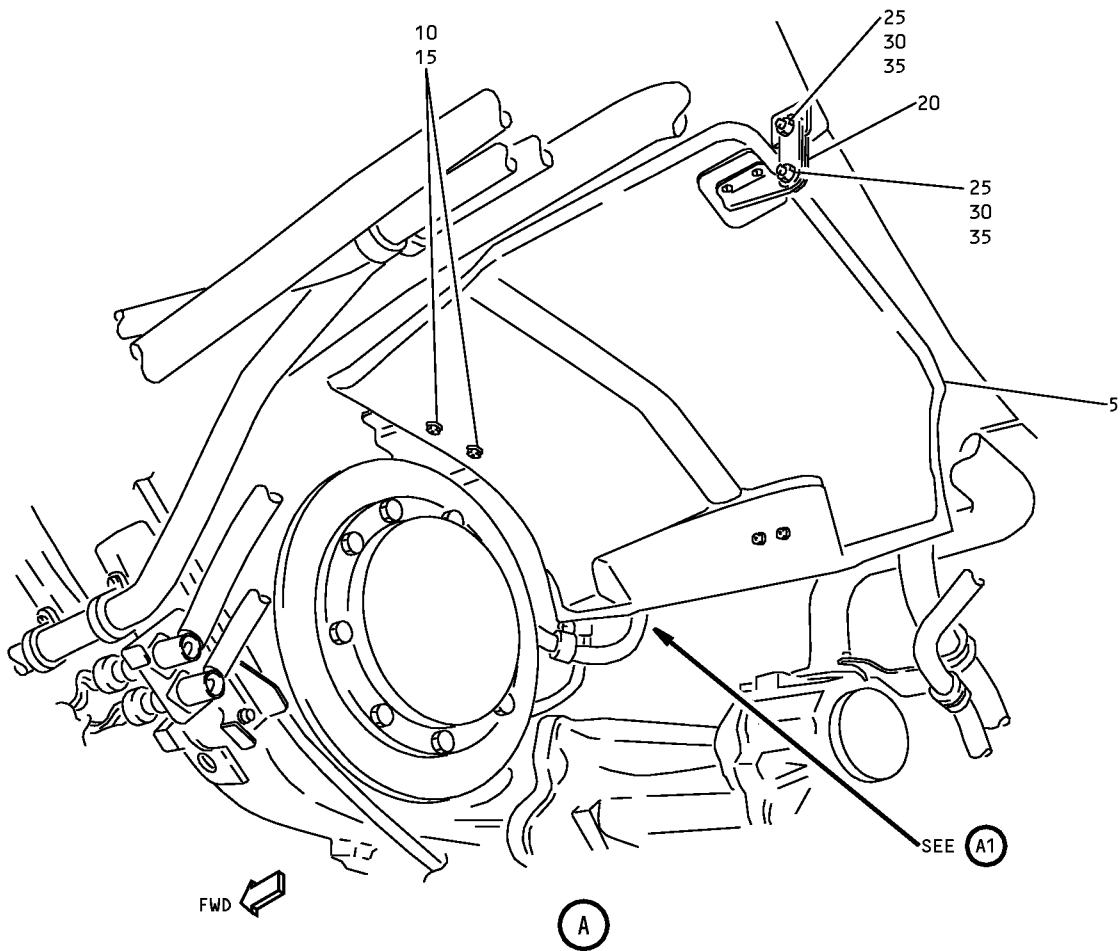
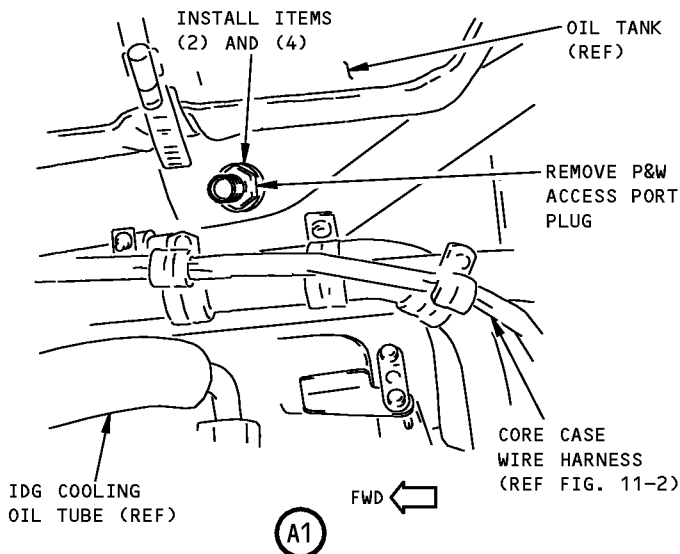
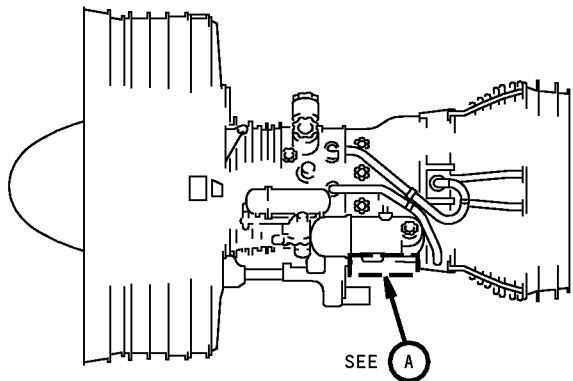
**71-00-02**

P/P BUILDUP FIGURE 5-1

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Lower Thermal Radiation Shield Installation  
Figure 5-1 (Sheet 1)

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P/P BUILDUP FIGURE 5-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
5-1		<p><b>LOWER THERMAL RADIATION SHIELD INSTALLATION (FIGURE 5-1, SHEET 1)</b></p> <p>REMOVE THE PW ACCESS PORT PLUG FROM THE DIFFUSER CASE BY CUTTING THE SAFETY WIRE AND UNSCREWING THE PLUG. APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO THREADS OF UNION (2). INSTALL WASHER (4) TO UNION (2). INSTALL UNION (2) INTO DIFFUSER CASE PORT. TIGHTEN UNION TO 155-165 LB-IN.</p> <p><b>NOTE:</b> TUBE ATTACHED TO UNION IN ECS CONTROLLER INSTALLATION (REF: ECS CONTROLLER INSTALLATION/Figure 12-2 ).</p>		
2	MS21902J6	. UNION		1
4	NAS1149C0963R	. WASHER		1
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND	CON	AR
		POSITION SHIELD (5) ON ENGINE AND SECURE TO PW BRACKET WITH ITEMS (10 AND 15). SECURE LINK (20) TO HEAT SHIELD (5) AND ENGINE BRACKET WITH ITEMS (25 THRU 35).		
5	332T4521-53	. SHIELD		1
5	332T4521-2	. SHIELD (REPLACED BY 332T4521-53)	LTD	-
10	BACS12HN3U16	. BOLT		2
10	BACS12HN3U18	. BOLT (2 REQD)	DEL	-
15	NAS1149C0332R	. WASHER		2
20	69B90018-1	. LINK		1
25	BACS12HN3U9	. BOLT		2
30	NAS1149C0363R	. WASHER		4
35	BACN10YR3C	. NUT		2

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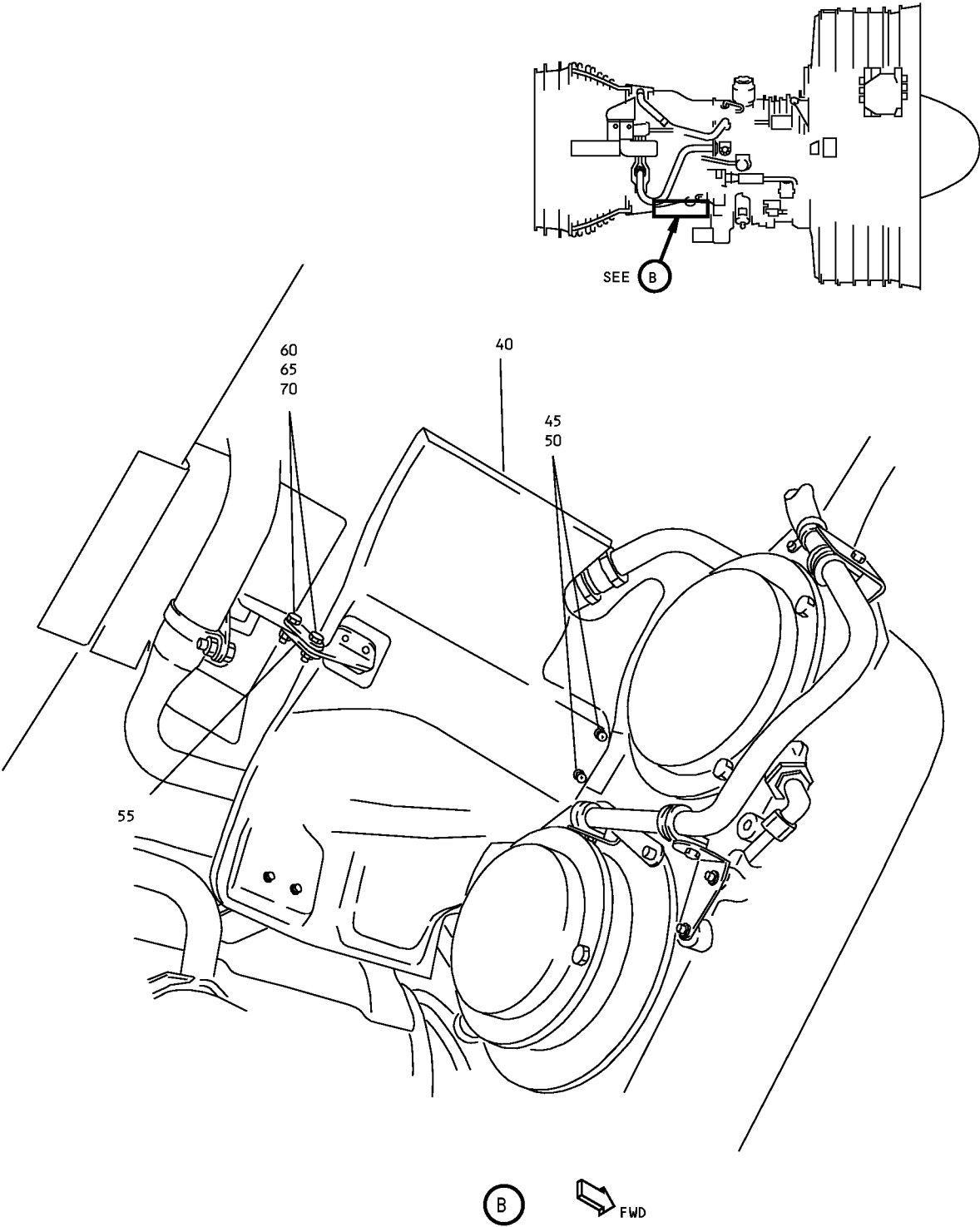
P/P BUILDUP FIGURE 5-1

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Lower Thermal Radiation Shield Installation  
Figure 5-1 (Sheet 2)

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
5-1		<b>LOWER THERMAL RADIATION SHIELD INSTALLATION (FIGURE 5-1, SHEET 2)</b>		
		POSITION SHIELD (40) ON ENGINE MAKING SURE HEAT SHIELD DOES NOT TOUCH ANY TUBES. SECURE HEAT SHIELD (40) TO PW BRACKET WITH ITEMS (45, 50). SECURE LINK (55) TO HEAT SHIELD (40) WITH ITEMS (60 THRU 70).		
40	332T4521-54	. SHIELD <sup>*[2]</sup>		1
40	332T4521-48	. SHIELD (REPLACED BY 332T4521-54) (1 REQD) <sup>*[1]</sup>	LTD	-
45	BACS12HN3U16	. BOLT		2
45	BACS12HN3U18	. BOLT (2 REQD)	DEL	-
50	NAS1149C0332R	. WASHER		2
55	69B90018-1	. LINK		1
60	BACS12HN3U9	. BOLT		2
65	NAS1149C0363R	. WASHER		4
70	BACN10YR3C	. NUT		2
		*[2] PMA WITH 2 COOLING PORTS		
		*[1] PMA WITH 1 COOLING PORT		

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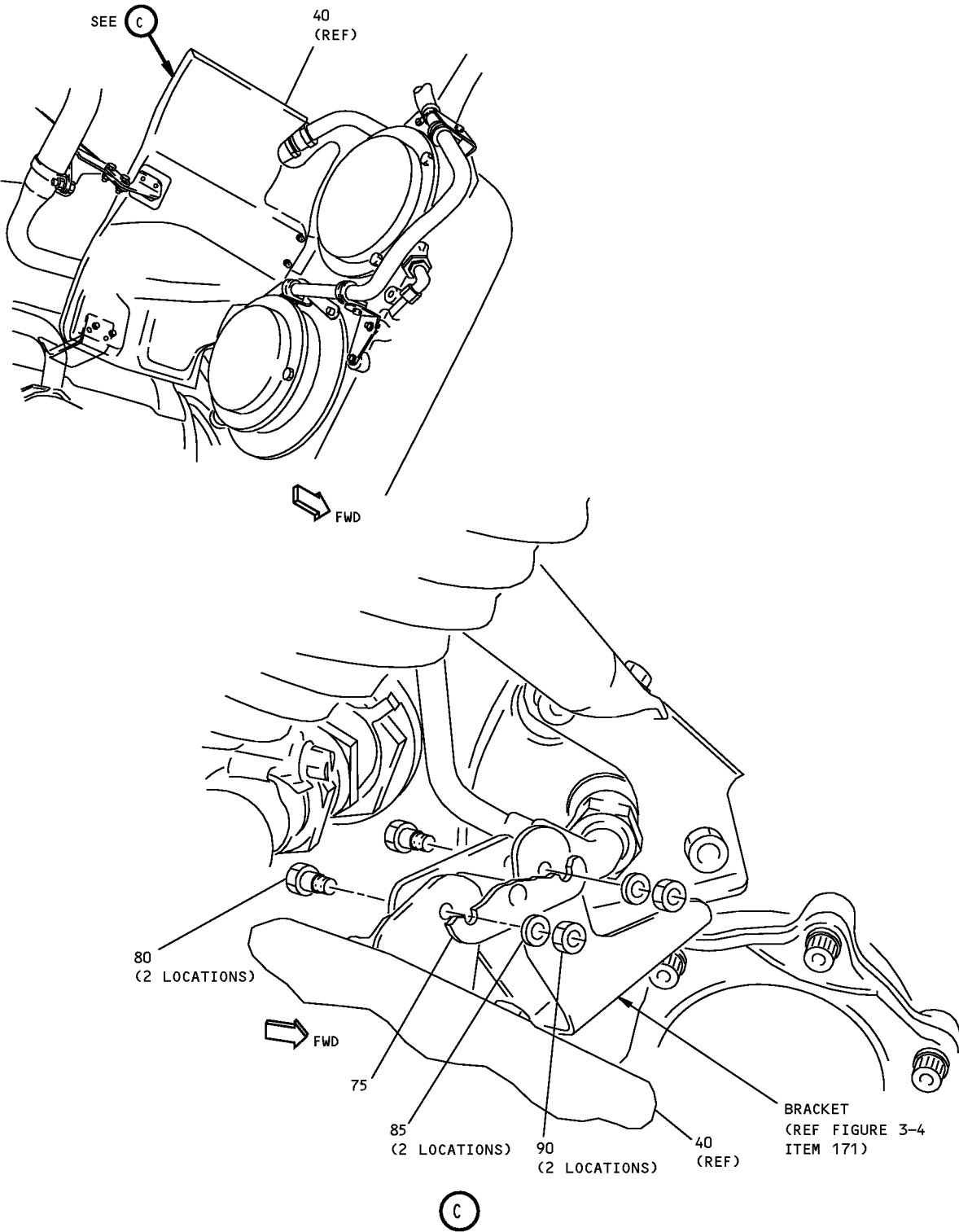
P/P BUILDUP FIGURE 5-1

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**Lower Thermal Radiation Shield Installation  
Figure 5-1 (Sheet 3)**

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P/P BUILDUP FIGURE 5-1  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
5-1		<b>LOWER THERMAL RADIATION SHIELD INSTALLATION (FIGURE 5-1, SHEET 3)</b> SECURE LINK (75) BETWEEN BRACKET AND HEAT SHIELD (40) USING FASTENERS (80 THRU 90).		
75	69B90018-1	. LINK		1
80	BACS12HN3U9	. BOLT		2
85	NAS1149C0363R	. WASHER		4
90	BACN10YR3C	. NUT		2

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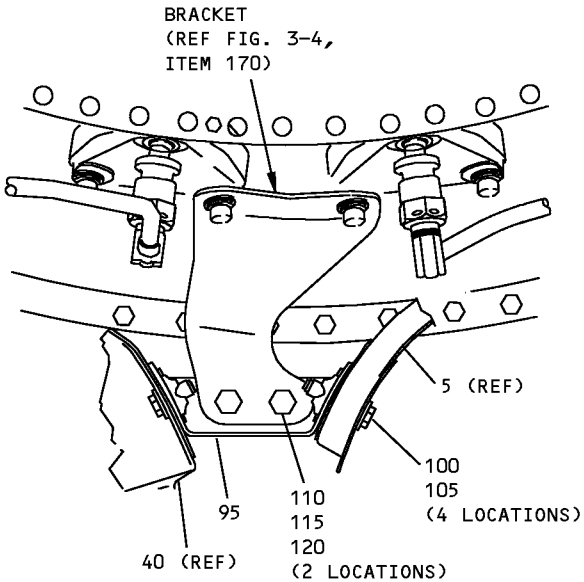
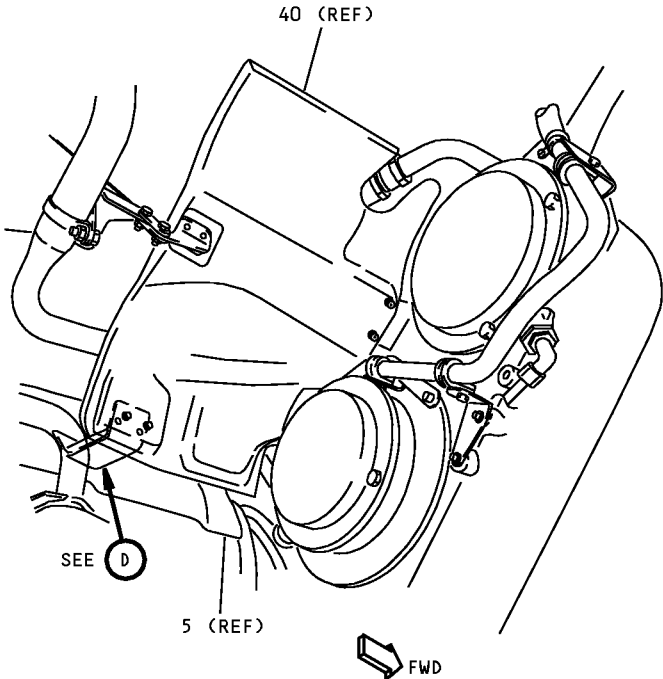
P/P BUILDUP FIGURE 5-1

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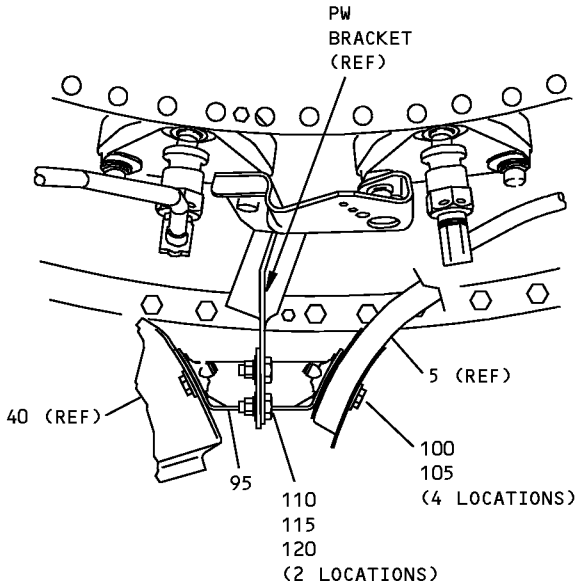
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WITHOUT OIL PUMP PULSE DAMPENER  
(VIEW IN THE AFT DIRECTION)

D



WITH OIL PUMP PULSE DAMPENER  
(VIEW IN THE AFT DIRECTION)

D

**Lower Thermal Radiation Shield Installation  
Figure 5-1 (Sheet 4)**

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P/P BUILDUP FIGURE 5-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
5-1		<b>LOWER THERMAL RADIATION SHIELD INSTALLATION (FIGURE 5-1, SHEET 4)</b>		
		SECURE BRACKET (95) TO RIGHT SIDE OF PW BRACKET AND TO SHIELDS (5, 40) WITH ITEMS (100 THRU 120).		
95	332T4521-75	. BRACKET ASSY <sup>[2]</sup>		1
95	332T4521-17	. BRACKET ASSY (REPLACED BY 332T4521-75) (1 REQD) <sup>[1]</sup>	LTD	-
100	BACS12HN3U16	. BOLT <sup>[2]</sup>		4
100	BACS12HN3U18	. BOLT (4 REQD) <sup>[1]</sup>	LTD	-
105	NAS1149C0332R	. WASHER		4
110	BACB30LM3U2	. BOLT		2
115	BACN10YR3C	. NUT		2
120	NAS1149C0363R	. WASHER		2
		*[2] WITH OIL PUMP PULSE DAMPENER		
		*[1] WITHOUT OIL PUMP PULSE DAMPENER		

**71-00-02**

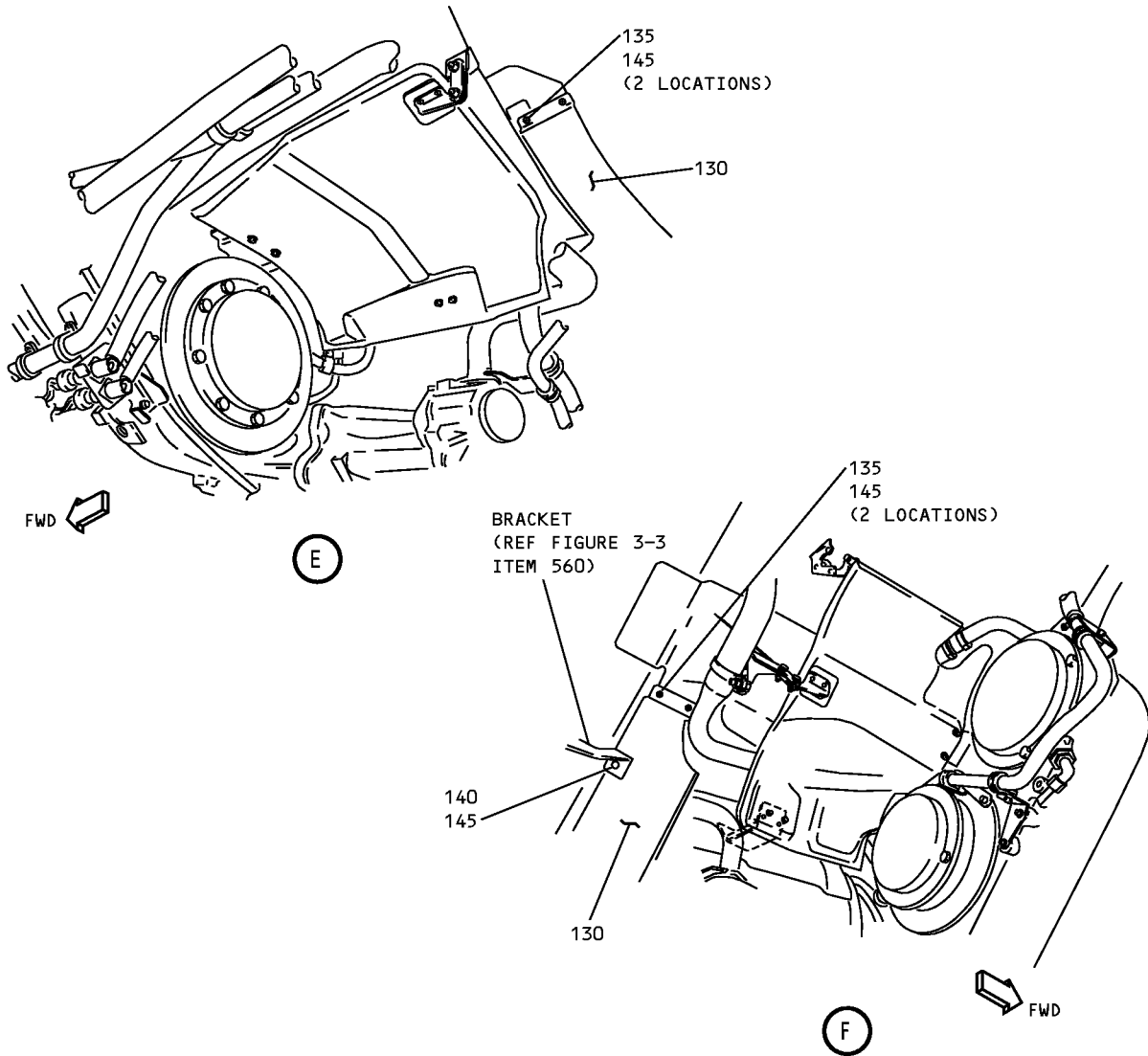
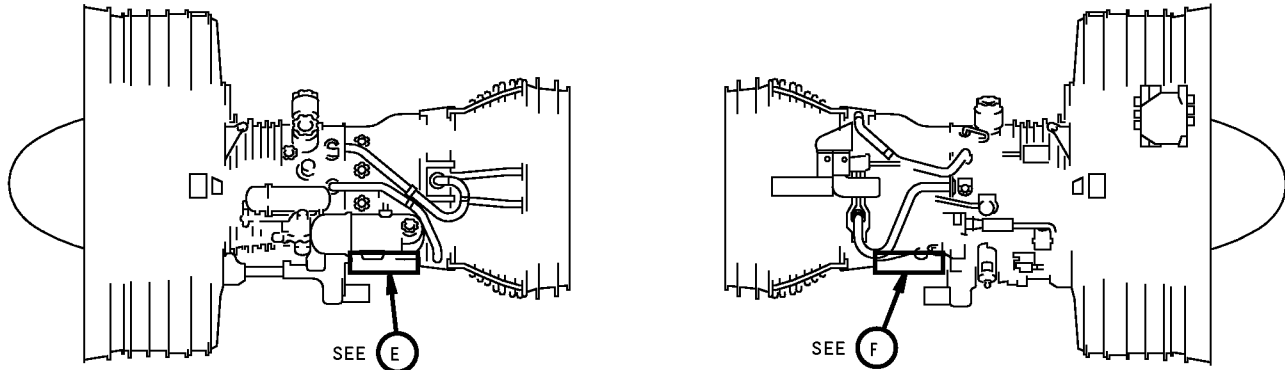
P/P BUILDUP FIGURE 5-1

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**Lower Thermal Radiation Shield Installation  
Figure 5-1 (Sheet 5)**

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P/P BUILDUP FIGURE 5-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
5-1		<p><b>LOWER THERMAL RADIATION SHIELD INSTALLATION (FIGURE 5-1, SHEET 5)</b></p> <p>POSITION SHIELD (130) ON ENGINE. SECURE HEAT SHIELD (130) TO EXISTING PW HEAT SHIELD AT 5:30 O'CLOCK AND TO EXISTING PW MOUNTING BRACKET AT 6:30 O'CLOCK POSITION WITH ITEMS (135 AND 145). SECURE HEAT SHIELD TO BRACKET (SHIELD WILL REST ON TOP OF BRACKET FLANGE) (REF: BRACKET INSTALLATION - LEFT SIDE CORE CASE/Figure 3-3, ITEM 560) WITH ITEMS (140 AND 145).</p>		
130	49M1144-301	. HEAT SHIELD (V25167) (ON PHASE 3 ENGINES)	VEN	1
130	49M1131-101	. HEAT SHIELD (V25167) (ALL EXCEPT PHASE 3 ENGINES) (1 REQD)	LTD	-
135	BACN10YR3C	. NUT		4
140	BACS12HN3U7	. BOLT		1
145	NAS1149C0363R	. WASHER		5

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P/P BUILDUP FIGURE 5-1

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FIGURE 5-2

# OIL FILTER DIFFERENTIAL PRESSURE SWITCH INSTALLATION

REF QEC TASK NO.: 5

REF DWG: 332T4453

**NOTE:** NOTE: PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

**NOTE:** THIS PROCEDURE INSTALLS PRESSURE SWITCH ON EARLIER PRODUCTION ENGINES. ON LATER PRODUCTION ENGINES, REFER TO PW4000 SERIES ENGINE MANUAL FOR PRESSURE SWITCH INSTALLATION.

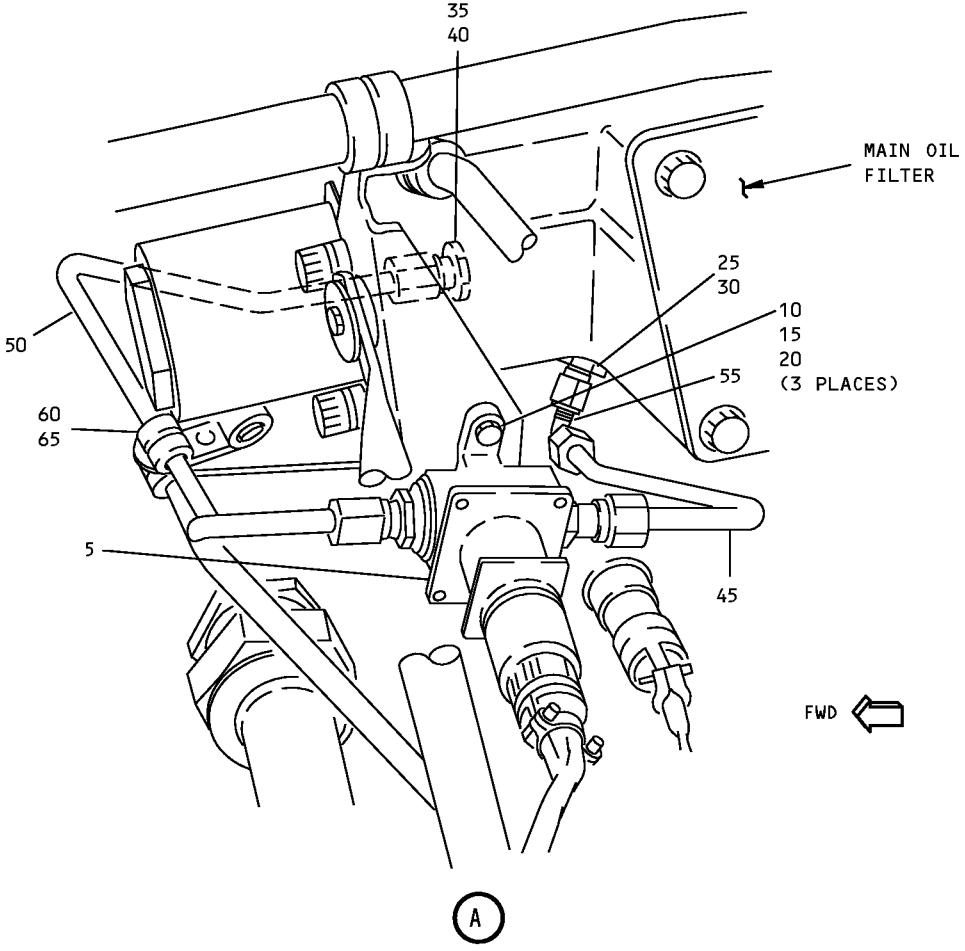
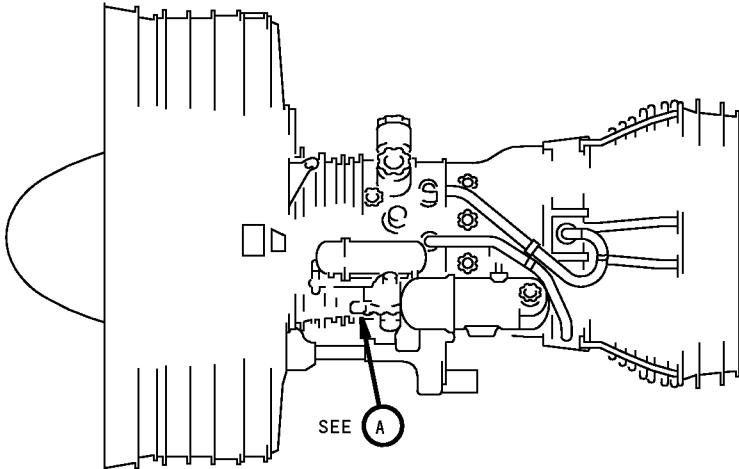
**71-00-02**

P/P BUILDUP FIGURE 5-2

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POWERPLANT BUILDUP MANUAL**



**Oil Filter Differential Pressure Switch Installation  
Figure 5-2 (Sheet 1)**

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P/P BUILDUP FIGURE 5-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
5-2		<b>OIL FILTER DIFFERENTIAL PRESSURE SWITCH INSTALLATION (FIGURE 5-2, SHEET 1)</b>		
		INSTALL SWITCH (5) ON BRACKET ON OIL FILTER HOUSING WITH ITEMS (10 THRU 20).		
5	8D1495	. SWITCH (V09049) (BOEING S332T004-36)	VEN	-
5	S332T004-36	. SWITCH (QTY 1)	LTD	-
5	8D1469	. SWITCH (V09049) (BOEING S332T004-34)	VEN	-
5	S332T004-34	. SWITCH (REPLACED BY S332T004-36)	LTD	-
5	8D1371	. SWITCH (V09049) (BOEING S332T004-23)	VEN	-
5	S332T004-23	. SWITCH (REPLACED BY S332T004-34)	LTD	-
10	BACS12HN3U10	. SCREW (QTY 3)	LTD	-
15	NAS1149C0332R	. WASHER (QTY 3)	LTD	-
20	BACN10YR3C	. NUT (QTY 3)	LTD	-
		INSTALL O-RING (25) ON REDUCER (30). INSTALL REDUCER (30) IN OIL FILTER INLET PORT.		
25	AS3208-06	. PACKING, O-RING (QTY 1)	LTD	-
30	MS21916J6-4	. REDUCER (QTY 1)	LTD	-
		INSTALL O-RING (35) ON REDUCER (40). INSTALL REDUCER (40) IN OIL FILTER OUTLET PORT.		
35	AS3208-06	. PACKING, O-RING (QTY 1)	LTD	-
40	MS21916J6-4	. REDUCER (QTY 1)	LTD	-
		CONNECT TUBES (45, 50) AND ELBOW (55) BETWEEN SWITCH (5) AND REDUCERS (30, 40). POSITION CLAMP (60) ON TUBE (50) AT BRACKET, DO NOT INSTALL. (CLAMP INSTALLED IN ECS CONTROLLER INSTALLATION/Figure 12-2).		
45	332T4453-3	. TUBE ASSY (QTY 1)	LTD	-
50	332T4453-4	. TUBE ASSY (QTY 1)	LTD	-
55	BACE21BT0404JN	. ELBOW (QTY 1)	LTD	-
60	BACC10GT2-04	. CLAMPSHELL (QTY 2) <sup>*[1]</sup>	LTD	-
65	TA027016-04	. CLAMP (QTY 1)	LTD	-
65	BACC10HS04	. CLAMP (REPLACED BY TA027016-04)	LTD	-
		*[1] USED WITH BACC10HS04 CLAMP - DO NOT USE WITH TA027016-04 CLAMP		

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P/P BUILDUP FIGURE 5-2

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FIGURE 5-3

# OIL PRESSURE TRANSMITTER AND LOW OIL PRESSURE SWITCH INSTALLATION

REF QEC TASK NO.: 5

REF DWG: 332T4451

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

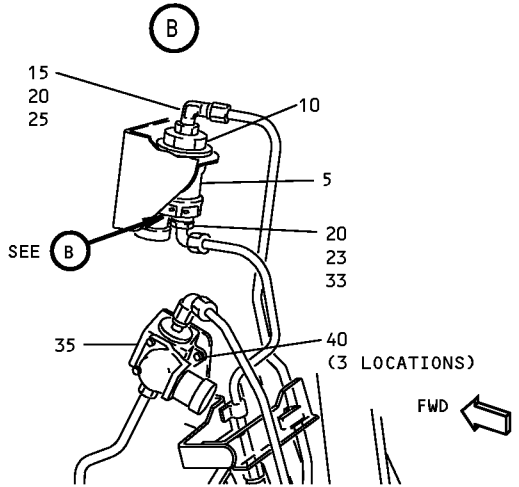
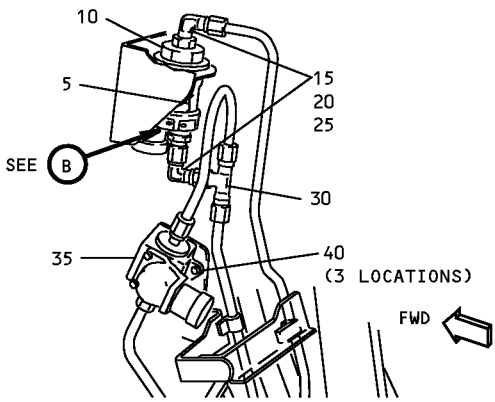
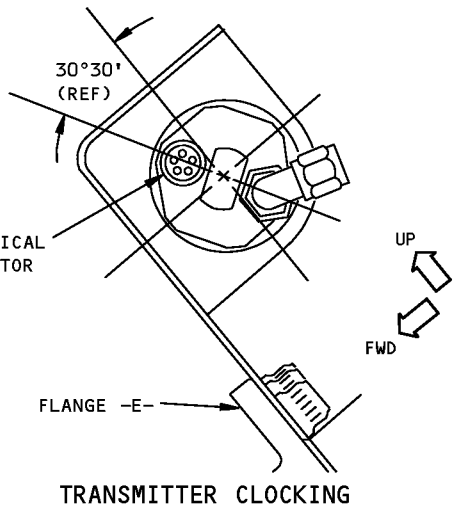
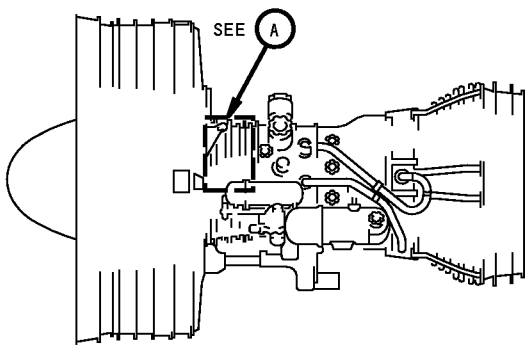
**71-00-02**

P/P BUILDUP FIGURE 5-3

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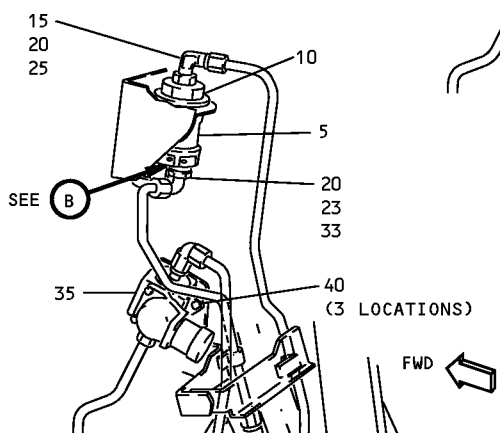
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**POWERPLANT BUILDUP MANUAL**



CONFIG A (A)

CONFIG B (A)



CONFIG C (A)

**Oil Pressure Transmitter and Low Oil Pressure Switch Installation**  
**Figure 5-3 (Sheet 1)**

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P/P BUILDUP FIGURE 5-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
5-3		<b>OIL PRESSURE TRANSMITTER AND LOW OIL PRESSURE SWITCH INSTALLATION (FIGURE 5-3, SHEET 1)</b>		
		POSITION TRANSMITTER (5) WITH ELECTRICAL CONNECTOR AT 11:00 POSITION AND SECURE WITH NUT (10). CHECK BONDING RESISTANCE BETWEEN TRANSMITTER AND ENGINE CASE. THE MAXIMUM ALLOWABLE RESISTANCE IS 0.010 OHMS. TIGHTEN NUT (10) TO A TORQUE OF 250-300 LB-IN (28.2-33.9 N.m.) AND SECURE WITH safety cable kit, G50375 (C1) OR lockwire, G01912 (C2).		
5	418-01124	. TRANSMITTER (V58880) (BOEING S332T305-8)	VEN	-
5	S332T305-8	. TRANSMITTER		1
10	BACN10DR12S	. NUT		1
C1	G50375	. SAFETY CABLE KIT (OPT)	CON	AR
C2	G01912	. LOCKWIRE (OPT)	CON	AR
		<u>CONFIGURATION B, C</u>		
		INSTALL O-RINGS (20), UNION (15), ELBOWS (23, 25), AND NUT (33) INTO TRANSMITTER (5).		
		<u>CONFIGURATION A</u>		
		INSTALL O-RINGS (20), UNIONS (15), ELBOWS (25), AND TEE (30) INTO TRANSMITTER (5).		
15	MS21902J4	. UNION <sup>*[B]*[C]</sup>		1
15	MS21902J4	. UNION (2 REQD) <sup>*[A]</sup>	LTD	-
20	AS3581-904	. PACKING, O-RING		2
23	MS21926J4	. ELBOW <sup>*[B]*[C]</sup>		1
25	BACE21BT0404JN	. ELBOW <sup>*[B]*[C]</sup>		1
25	BACE21BT0404JN	. ELBOW (1 REQD) <sup>*[A]</sup>	LTD	-
30	BACT16BT040404JN	. TEE <sup>*[A]</sup>		1
33	AS5178J04	. NUT <sup>*[B]*[C]</sup>		1
		INSTALL SWITCH (35) TO BRACKET WITH SCREWS (40).		
35	8D1494	. SWITCH (V09049) (BOEING S332T004-35)	VEN	-
35	S332T004-35	. SWITCH		1
35	8D1473	. SWITCH (V09049) (BOEING S332T004-33)	VEN	-
35	S332T004-33	. SWITCH (REPLACED BY S332T004-35)	LTD	-
35	8D1370	. SWITCH (V09049) (BOEING S332T004-22)	VEN	-
35	S332T004-22	. SWITCH (REPLACED BY S332T004-33)	LTD	-
40	BACS12HN3U10	. SCREW		3

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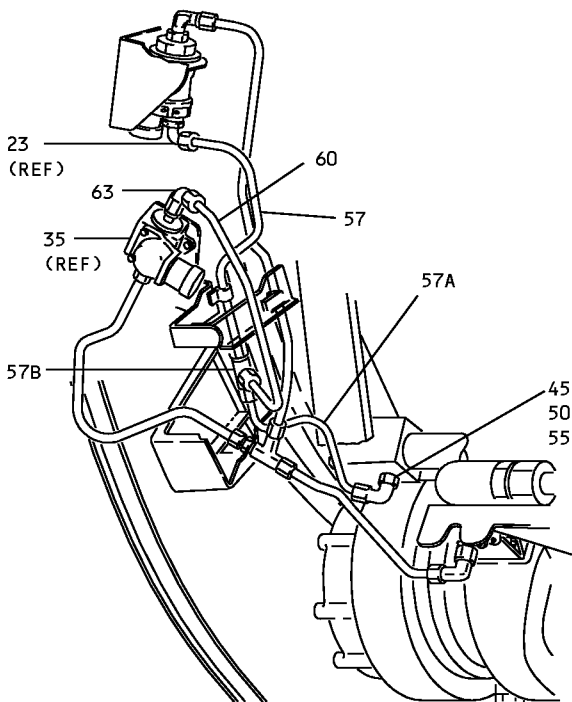
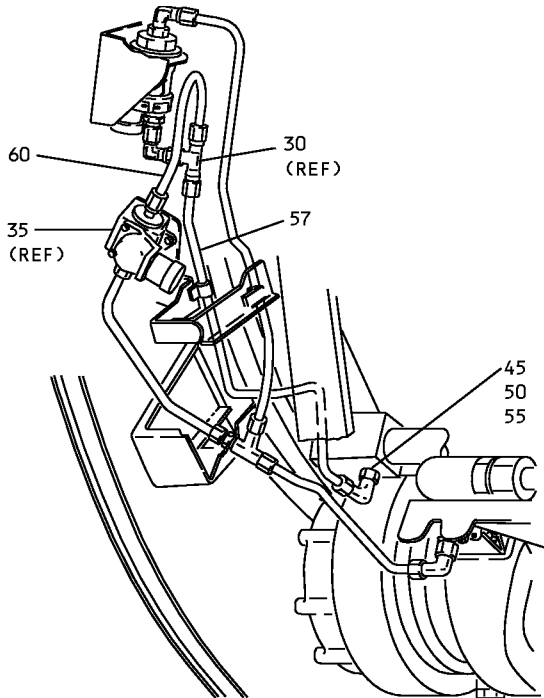
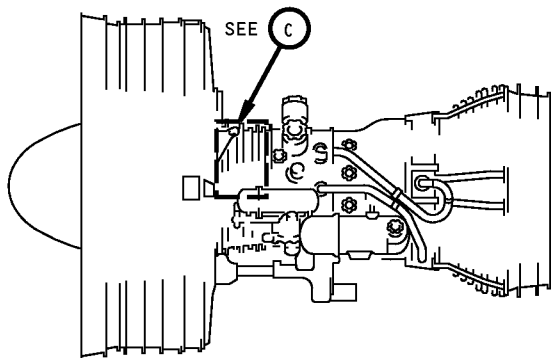
P/P BUILDUP FIGURE 5-3

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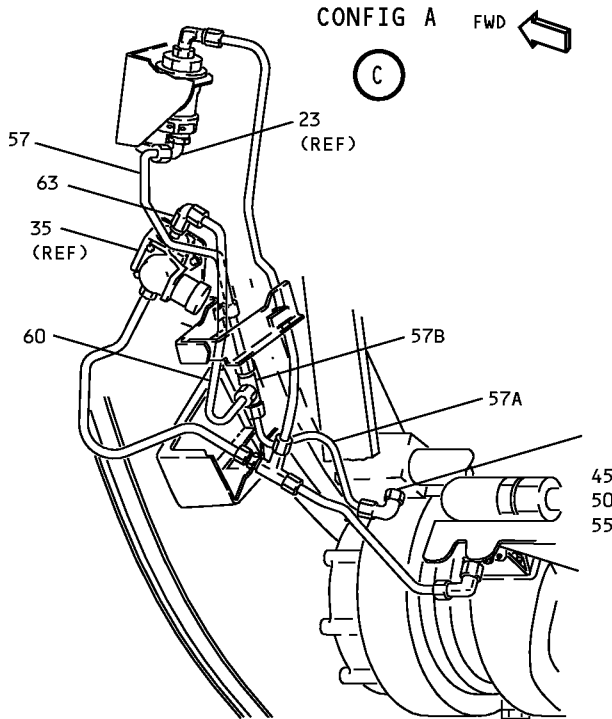
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POWERPLANT BUILDUP MANUAL



CONFIG B FWD



CONFIG C FWD

Oil Pressure Transmitter and Low Oil Pressure Switch Installation  
Figure 5-3 (Sheet 2)

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P/P BUILDUP FIGURE 5-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
5-3		<b>OIL PRESSURE TRANSMITTER AND LOW OIL PRESSURE SWITCH INSTALLATION (FIGURE 5-3, SHEET 2)</b> INSTALL ELBOW (45), NUT (50), AND O-RING (55) INTO ENGINE OIL VENT PORT.		
45	MS21926J4	. ELBOW		1
50	BACN10DR4J	. NUT		1
50	AS5178J04	. NUT (REPLACED BY BACN10DR4J)	LTD	-
55	AS3581-904	. PACKING, O-RING		1
		<u>CONFIGURATION B, C</u> CONNECT TUBE ASSYS (57, 57A) AND TEE (57B) BETWEEN ELBOWS (23, 45).		
		<u>CONFIGURATION A</u> CONNECT TUBE ASSY (57) BETWEEN TEE (30) AND ELBOW (45).		
57	332T4451-32	. TUBE ASSY <sup>[C]</sup>		1
57	332T4451-24	. TUBE ASSY (1 REQD) <sup>[B]</sup>	LTD	-
57	332T4451-9	. TUBE ASSY (1 REQD) <sup>[A]</sup>	LTD	-
57A	332T4451-34	. TUBE ASSY <sup>[C]</sup>		1
57A	332T4451-25	. TUBE ASSY (1 REQD) <sup>[B]</sup>	LTD	-
57B	BACT16BL040404J	. TEE (1 REQD) <sup>[B]<sup>[C]</sup></sup>		1
57B	MS21905J4	. TEE (REPLACED BY BACT16BL040404J)	LTD	-
		<u>CONFIGURATION B, C</u> CONNECT TUBE ASSY (60) AND ELBOW (63) BETWEEN SWITCH (35) AND TEE (57B).		
		<u>CONFIGURATION A</u> CONNECT TUBE ASSY (60) BETWEEN SWITCH (35) AND TEE (30).		
60	332T4451-33	. TUBE ASSY <sup>[C]</sup>		1
60	332T4451-26	. TUBE ASSY <sup>[B]</sup>		1
60	332T4451-8	. TUBE ASSY (1 REQD) <sup>[A]</sup>	LTD	-
63	BACE21BT0404JN	. ELBOW <sup>[B]<sup>[C]</sup></sup>		1

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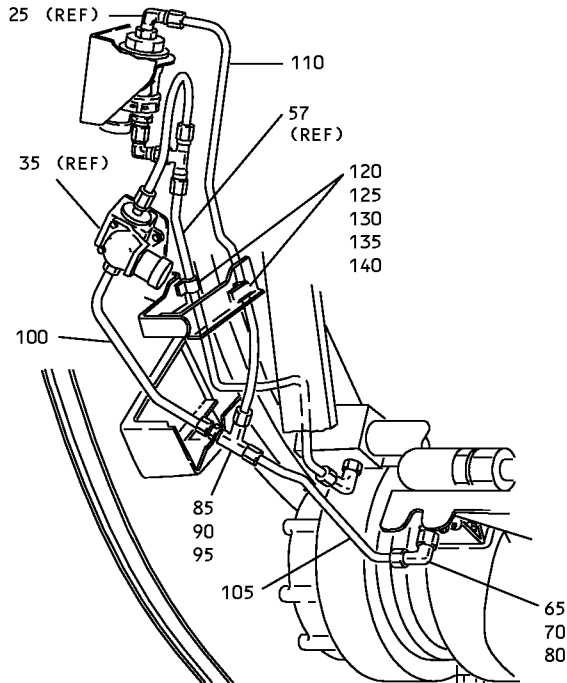
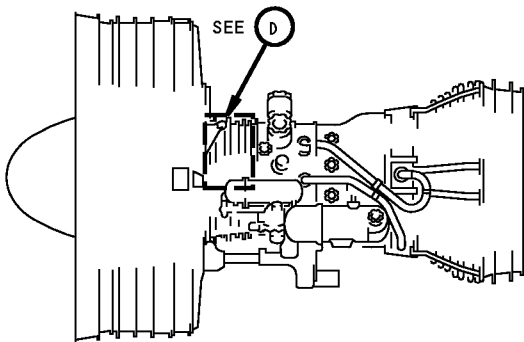
P/P BUILDUP FIGURE 5-3

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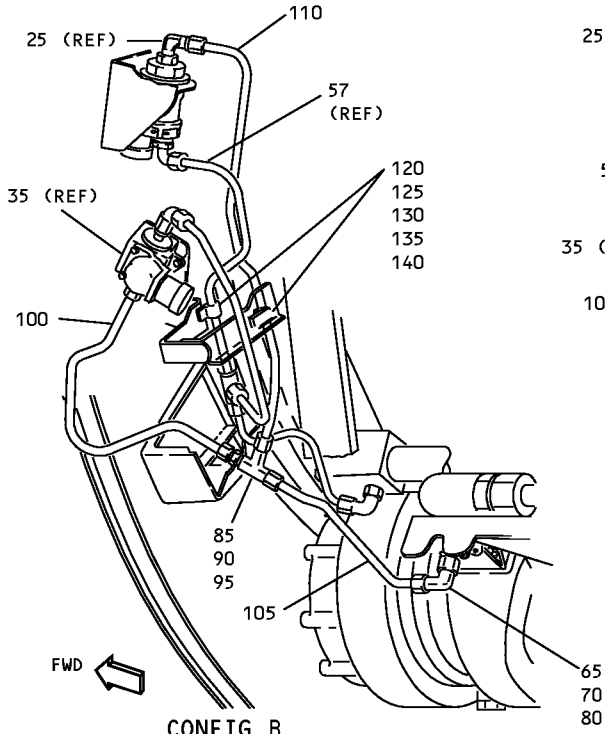
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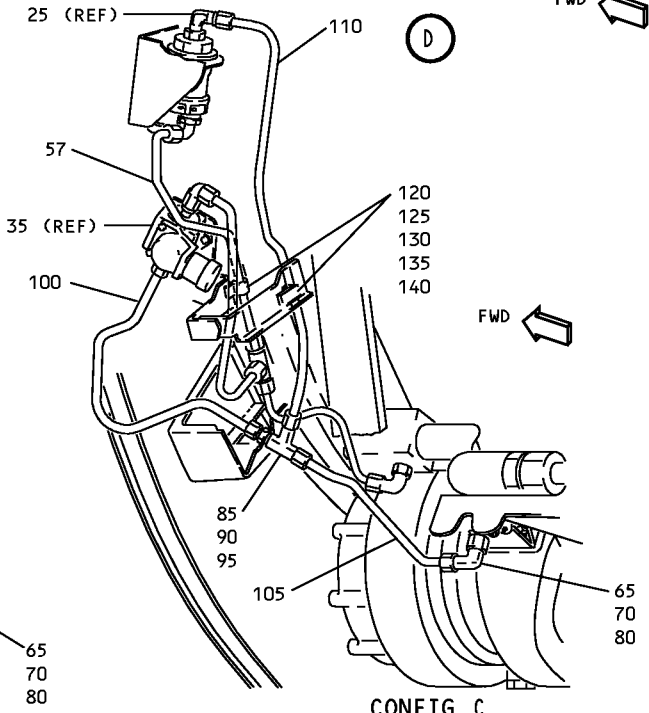
POWERPLANT BUILDUP MANUAL



CONFIG A FWD ←



CONFIG B FWD ←



CONFIG C FWD ←

Oil Pressure Transmitter and Low Oil Pressure Switch Installation  
Figure 5-3 (Sheet 3)

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P/P BUILDUP FIGURE 5-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
5-3		<b>OIL PRESSURE TRANSMITTER AND LOW OIL PRESSURE SWITCH INSTALLATION (FIGURE 5-3, SHEET 3)</b>		
		INSTALL UNION (65), O-RING (70) AND ELBOW (80), INTO ENGINE OIL PRESSURE PORT. CONNECT TUBE ASSYS (100) AND (105) TO TEE (85), NUT (90), AND WASHER (95). CONNECT TUBE ASSYS (100) AND (105) BETWEEN ELBOW (65) AND SWITCH (35). DO NOT TIGHTEN.		
65	MS21902J4	. UNION		1
70	AS3581-904	. PACKING, O-RING		1
80	BACE21BT0404JN	. ELBOW		1
85	BACT16BN040404J	. TEE		1
90	AS5178J04	. NUT		1
95	NAS1149C0763R	. WASHER (UNDER FITTING)		1
100	332T4451-13	. TUBE ASSY		1
100	332T4451-11	. TUBE ASSY (REPLACED BY 332T4451-13)	LTD	-
105	332T4451-12	. TUBE ASSY		1
		CONNECT TUBE ASSY (110) BETWEEN TEE (85) AND ELBOW (25).		
110	332T4451-28	. TUBE ASSY		1
110	332T4451-10	. TUBE ASSY (REPLACED BY 332T4451-28)	LTD	-
		SECURE TUBE ASSYS (57, 110) TO ENGINE BRACKETS WITH ITEMS (120 THRU 140).		
120	TA027016-04	. CLAMP (V84971)	VEN	2
120	BACC10HS04	. CLAMP (REPLACED BY TA027016-04)	LTD	-
125	BACC10GT2-04	. CLAMPSHELL (QTY 4) <sup>*[1]</sup>	LTD	-
130	BACS12HN3U10	. SCREW		2
135	NAS1149C0332R	. WASHER		2
140	BACN10YR3C	. NUT		2
		TIGHTEN ALL TUBES AND FITTINGS.		
		*[1] USED WITH BACC10HS04 CLAMP - DO NOT USE WITH TA027016-04 CLAMP		

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P/P BUILDUP FIGURE 5-3

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FIGURE 6-1

# 15TH STAGE MANIFOLD AND DUCT INSTALLATION

REF QEC TASK NO.: 6

REF DWG: 332T4320

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

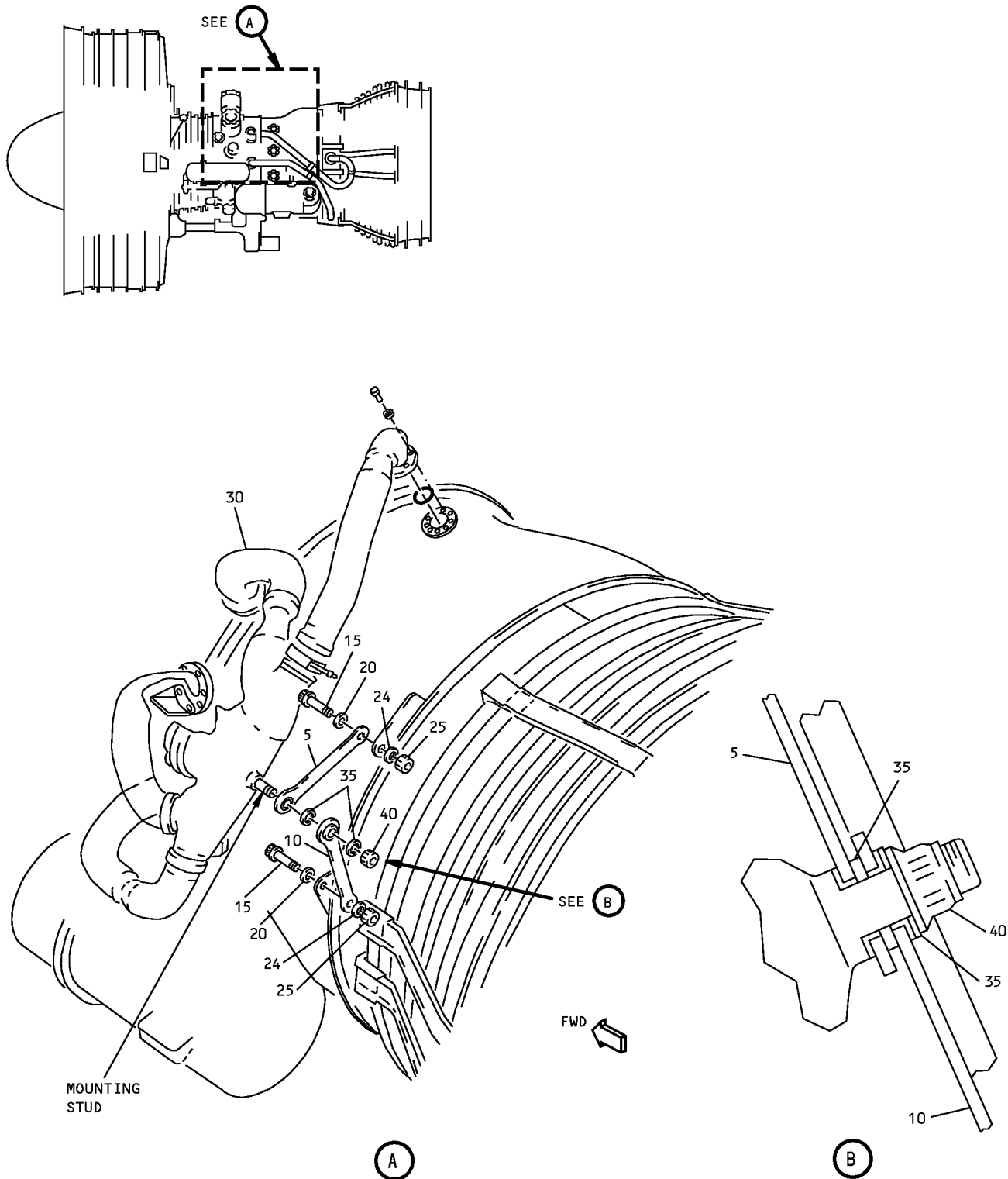
**71-00-02**

P/P BUILDUP FIGURE 6-1

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**POWERPLANT BUILDUP MANUAL**



**15th-Stage Manifold and Duct Installation**  
**Figure 6-1 (Sheet 1)**

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P/P BUILDUP FIGURE 6-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
6-1		<b>15TH-STAGE MANIFOLD AND DUCT INSTALLATION (FIGURE 6-1, SHEET 1)</b>		
		APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO THREADS OF BOLT (15). ALIGN LINK (5) ON FORWARD SIDE OF UPPER FLANGE -M-BRACKET AND LINK (10) ON AFT SIDE OF LOWER FLANGE -M-BRACKET. SECURE WITH ITEMS (15 THRU 25). DO NOT TIGHTEN.		
5	332T4362-1	. LINK		1
10	332T4362-1	. LINK		1
15	BACB30PN6-5	. BOLT		2
20	BACW10BP6ACU	. WASHER (POSITION COUNTERSINK TOWARDS BOLT HEAD)		2
24	NAS1149C0663R	. WASHER		2
25	BACN11Z6C	. NUT		2
25	BACN11Z6CK	. NUT (OPTIONAL TO BACN11Z6C)	OPT	-
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND	CON	AR
		PUT MANIFOLD (30) ON ENGINE WITH MOUNTING STUD THROUGH LINK (5), WASHER (35) AND LINK (10). THEN ATTACH WITH ITEMS (35, 40). DO NOT TIGHTEN.		
30	332T4321-1	. MANIFOLD		1
35	NAS1149C1063R	. WASHER		2
40	BACN11Z10C	. NUT		1
40	BACN11Z10CK	. NUT (OPTIONAL TO BACN11Z10C)	OPT	-

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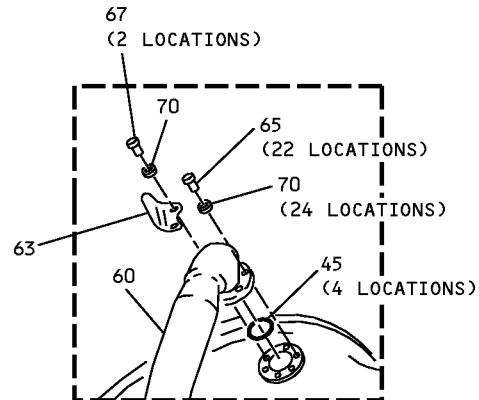
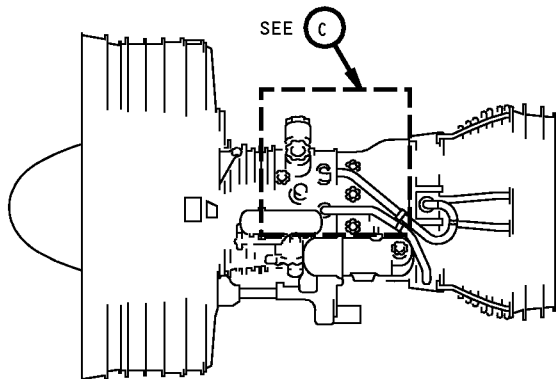
P/P BUILDUP FIGURE 6-1

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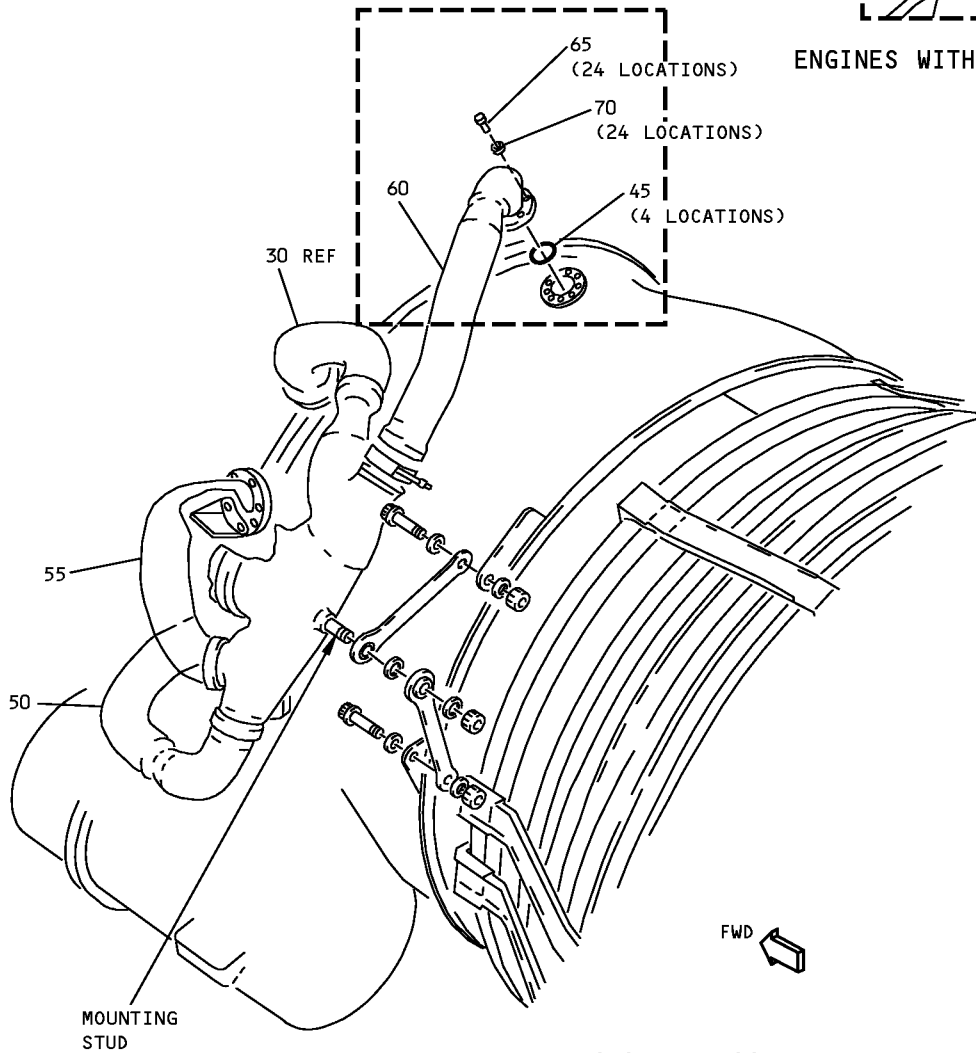
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**POWERPLANT BUILDUP MANUAL**



ENGINES WITH FIG. 4-4 ITEM 16



ENGINES WITHOUT FIG. 4-4 ITEM 16

C

**15th-Stage Manifold and Duct Installation  
Figure 6-1 (Sheet 2)**

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P/P BUILDUP FIGURE 6-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
6-1		<p><b>15TH-STAGE MANIFOLD AND DUCT INSTALLATION (FIGURE 6-1, SHEET 2)</b></p> <p>APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO THREADS OF BOLTS (65, 67). ALIGN GASKETS (45), MANIFOLD (30), DUCTS (50, 55, 60) AND BRACKET (63) TO 15TH-STAGE ENGINE PORTS AND EXISTING BRACKET (REF: BRACKET INSTALLATION - LEFT SIDE CORE CASE/Figure 3-3, ITEM 305). SECURE WITH ITEMS (65 THRU 70). DO NOT TIGHTEN BOLTS.</p>		
45	614U51-0038-2	. GASKET (V15284)	VEN	4
50	332T4324-1	. DUCT		1
55	332T4323-1	. DUCT		1
60	332T4322-1	. DUCT		1
63	332T4922-452	. BRACKET (1 REQD) <sup>*[1]</sup>	LTD	-
65	BACB30PN4H2	. BOLT <sup>*[2]</sup>		24
65	BACB30PN4H2	. BOLT (22 REQD) <sup>*[1]</sup>	LTD	-
67	BACB30PN4H3	. BOLT (2 REQD) <sup>*[1]</sup>	LTD	-
70	BACW10BP4ACU	. WASHER (POSITION COUNTERSINK TOWARDS BOLT HEAD)		24
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND	CON	AR
		*[2] ENGINES WITHOUT OVERBOARD STRUT DRAIN INSTALLATION/Figure 4-4, ITEM 16		
		*[1] ENGINES WITH OVERBOARD STRUT DRAIN INSTALLATION/Figure 4-4 , ITEM 16		

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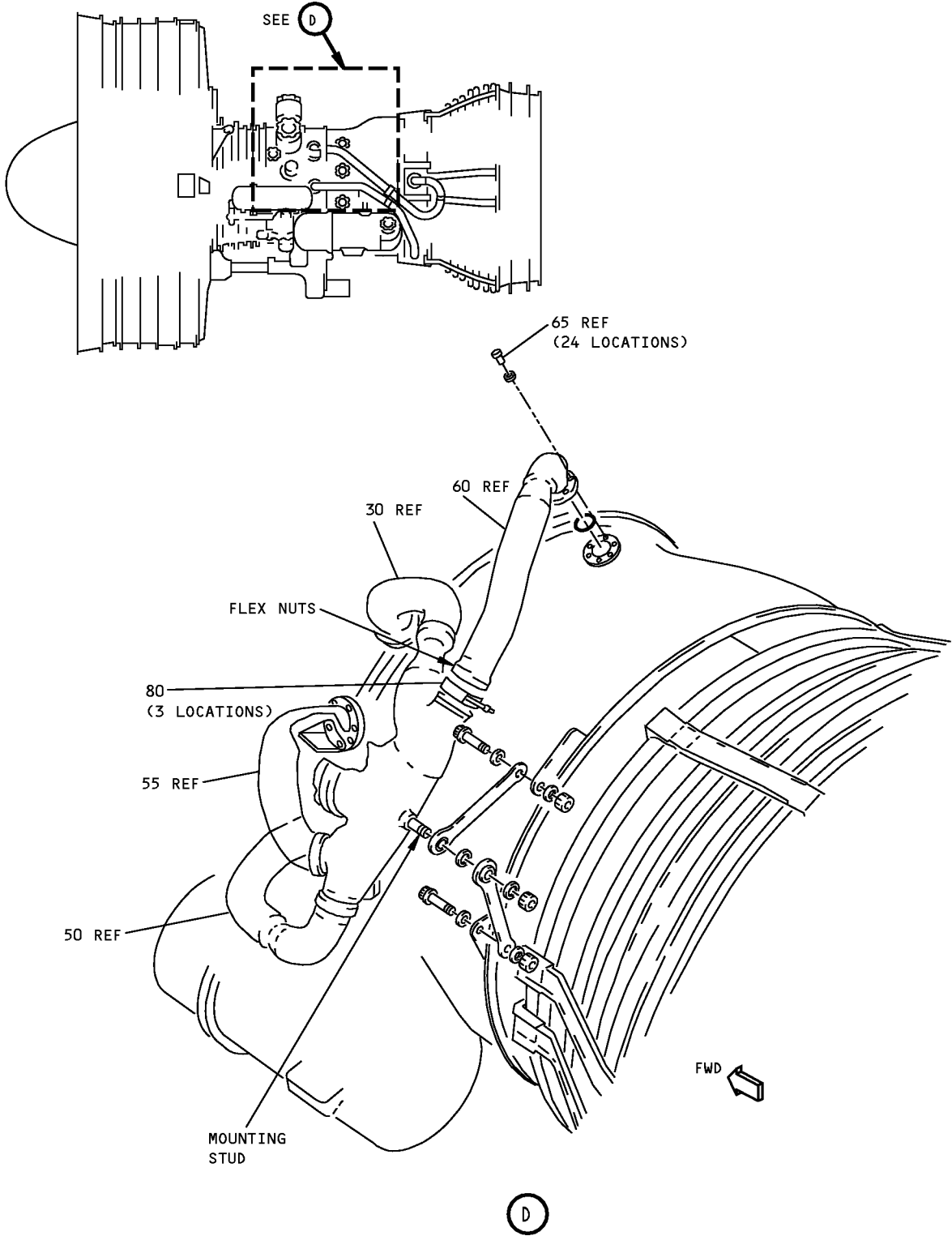
P/P BUILDUP FIGURE 6-1

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**15th-Stage Manifold and Duct Installation  
Figure 6-1 (Sheet 3)**

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P/P BUILDUP FIGURE 6-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
6-1		<p><b>15TH-STAGE MANIFOLD AND DUCT INSTALLATION (FIGURE 6-1, SHEET 3)</b></p> <p>APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO THREADS OF FLEX NUTS AND RETAINERS. INSTALL DUCT ASSYS (50 THRU 60) ON MANIFOLD (30).</p> <p>TIGHTEN BOLTS (65, 67) TO 50-85 LB-IN. INSTALL cable, G02437 (C2) OR lockwire, G50003 [P05-287] (C3).</p> <p>TIGHTEN FLEX NUTS TO 50-60 LB-FT . TAP NUTS FIRMLY WITH A NON-METALLIC Mallet AND RETIGHTEN NUTS TO 50-60 LB-FT. INSTALL LOCK ASSY (80). FURTHER TIGHTEN NUT ONLY AS MUCH AS NECESSARY TO INSTALL LOCK ASSY (80). TIGHTEN LOCK ASSY NUTS TO 25-35 LB-IN.</p>		
80	332T4334-9	. LOCK ASSY		3
80	332T4334-8	. LOCK ASSY (REPLACED BY 332T4334-9)	LTD	-
80	332T4334-5	. LOCK ASSY (REPLACED BY 332T4334-8)	LTD	-
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND	CON	AR
C2	G02437	. CABLE	CON	AR
C3	G50003	. LOCKWIRE (P05-287)	CON	AR
		ATTACH DRAIN TUBE (REF: OVERBOARD STRUT DRAIN INSTALLATION/Figure 4-4, ITEM 16) TO BRACKET (63) (IF INSTALLED) USING ITEMS (60 THRU 80, REFERENCED IN OVERBOARD STRUT DRAIN INSTALLATION/Figure 4-4).		

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P/P BUILDUP FIGURE 6-1

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FIGURE 6-2

# OIL QUANTITY TRANSMITTER INSTALLATION

REF QEC TASK NO.: 6

REF DWG: 332T4452

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

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P/P BUILDUP FIGURE 6-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
6-2		<b>OIL QUANTITY TRANSMITTER INSTALLATION (FIGURE 6-2, SHEET 1)</b>		
		INSTALL PACKING (5) IN O-RING GROOVE ON MOUNTING FACE OF TRANSMITTER (10). INSERT TRANSMITTER (10) INTO OIL TANK.		
5	AS3209-233	. PACKING, O-RING		1
10	77-109-13	. TRANSMITTER (V13068) (BOEING S332T006-13)	VEN	-
10	S332T006-13	. TRANSMITTER		1
		ATTACH TRANSMITTER (10) AND BRACKETS (15, 20) TO OIL TANK WITH BOLTS (25, 30), WASHERS (35), AND NUTS (40). TIGHTEN BOLTS.		
15	332T4922-425	. BRACKET		1
20	332T4922-89	. BRACKET		1
25	BACB30LJ4U6	. BOLT		3
30	BACB30LJ4U5	. BOLT		1
35	NAS1149C0432R	. WASHER		4
40	BACN10YR4C	. NUT		4
		INSTALL UNION (45) AND NUT (50) INTO HEAT SHIELD ASSY (55) AND LOCKWIRE. SECURE HEAT SHIELD ASSY (55) AND TRANSMITTER (10) TO OIL TANK WITH BOLTS (60, 62, 75), WASHERS (65, 77), AND NUTS (70, 80).		
45	MS21902J6	. UNION		1
50	BACN10DR6J	. NUT		1
55	332T3405-4	. HEAT SHIELD ASSY		1
60	BACB30LJ4U6	. BOLT		1
62	BACB30LJ4U7	. BOLT		1
65	NAS1149C0432R	. WASHER		2
70	BACN10YR4C	. NUT		2
75	BACS12HN3U7	. BOLT		2
77	NAS1149C0332R	. WASHER		2
80	BACN10YR3C	. NUT		2

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P/P BUILDUP FIGURE 6-2

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FIGURE 6-3

# SURGE BLEED EXHAUST DUCT INSTALLATION

REF QEC TASK NO.: 6

REF DWG: 332T4719

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

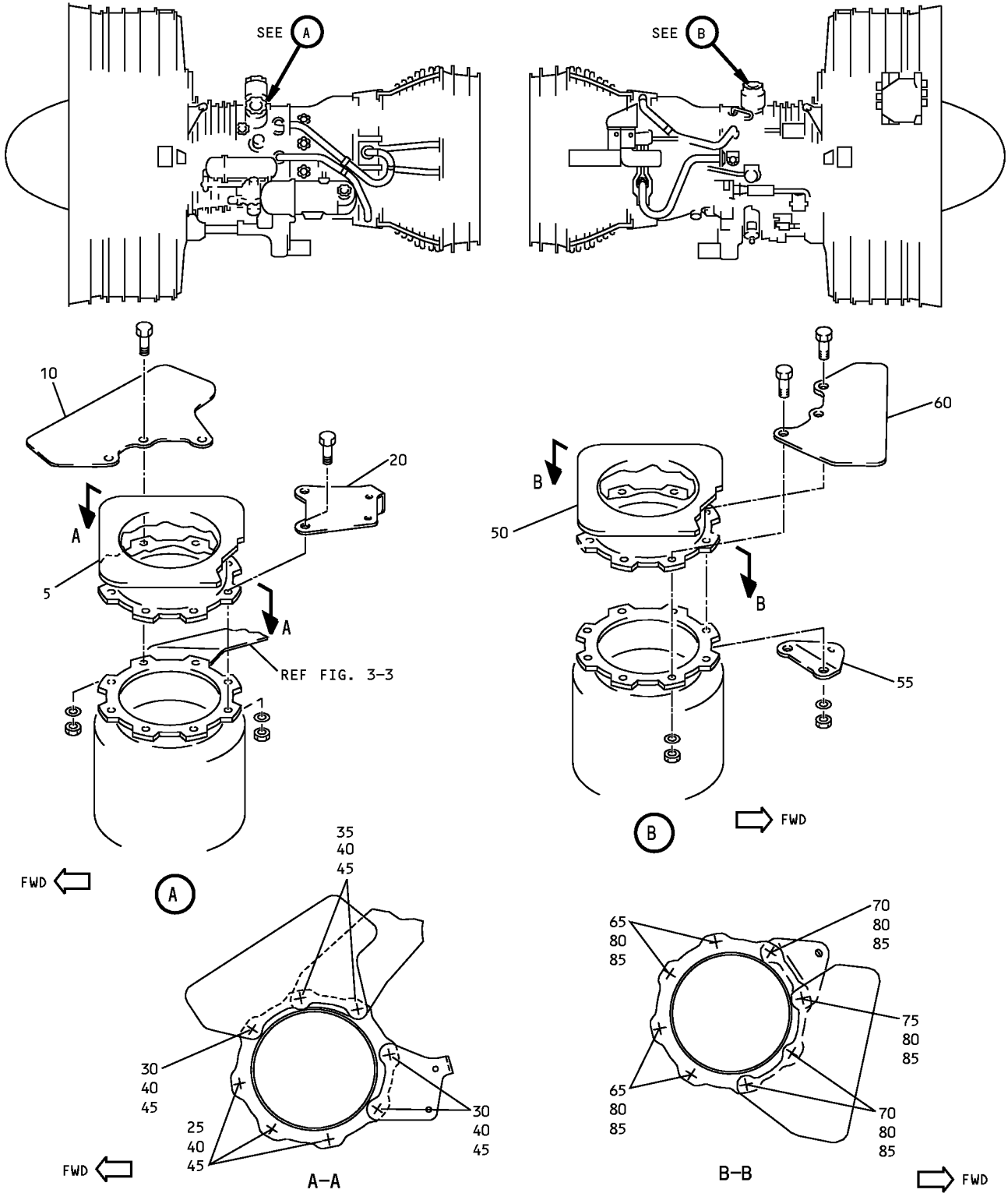
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P/P BUILDUP FIGURE 6-3

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POWERPLANT BUILDUP MANUAL



Surge Bleed Exhaust Duct Installation  
Figure 6-3 (Sheet 1)

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P/P BUILDUP FIGURE 6-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
6-3		<b>SURGE BLEED EXHAUST DUCT INSTALLATION (FIGURE 6-3, SHEET 1)</b>		
		<b>NOTE:</b> WHEN INSTALLING GROUND BRACKETS, CLEAN FAYING SURFACES BETWEEN BRACKETS AND SURGE BLEED DUCTS. CHECK BONDING RESISTANCE (MAX 0.005 OHM) BETWEEN BRACKET AND BASIC STRUCTURE.		
		SECURE DUCT ASSY (5) AND BRACKETS (10, 20) TO BLEED DUCT USING FASTENERS (25 THRU 45).		
5	332T3072-4	. DUCT ASSY		1
10	332T4922-629	. GROUND BRACKET		1
10	332T4922-602	. GROUND BRACKET (REPLACED BY 332T4922-629)	LTD	-
10	332T4922-293	. GROUND BRACKET (REPLACED BY 332T4922-602)	LTD	-
20	332T4922-373	. BRACKET		1
25	BACB30LJ4U9	. BOLT		3
30	BACB30LJ4U10	. BOLT		3
35	BACB30LJ4U11	. BOLT		2
40	BACN10YR4C	. NUT		8
45	NAS1149C0432R	. WASHER		8
		SECURE DUCT ASSY (50) AND BRACKETS (55, 60) TO BLEED DUCT USING FASTENERS (65 THRU 85).		
50	332T3072-2	. DUCT ASSY		1
55	332T4922-342	. BRACKET		1
60	332T4922-292	. GROUND BRACKET		1
65	BACB30LJ4U9	. BOLT		4
70	BACB30LJ4U10	. BOLT		3
75	BACB30LJ4U11	. BOLT		1
80	BACN10YR4C	. NUT		8
85	NAS1149C0432R	. WASHER		8

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P/P BUILDUP FIGURE 6-3

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FIGURE 7-1

# FUEL FLOW TRANSMITTER INSTALLATION

REF QEC TASK NO.: 7

REF DWG: 332T4460

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

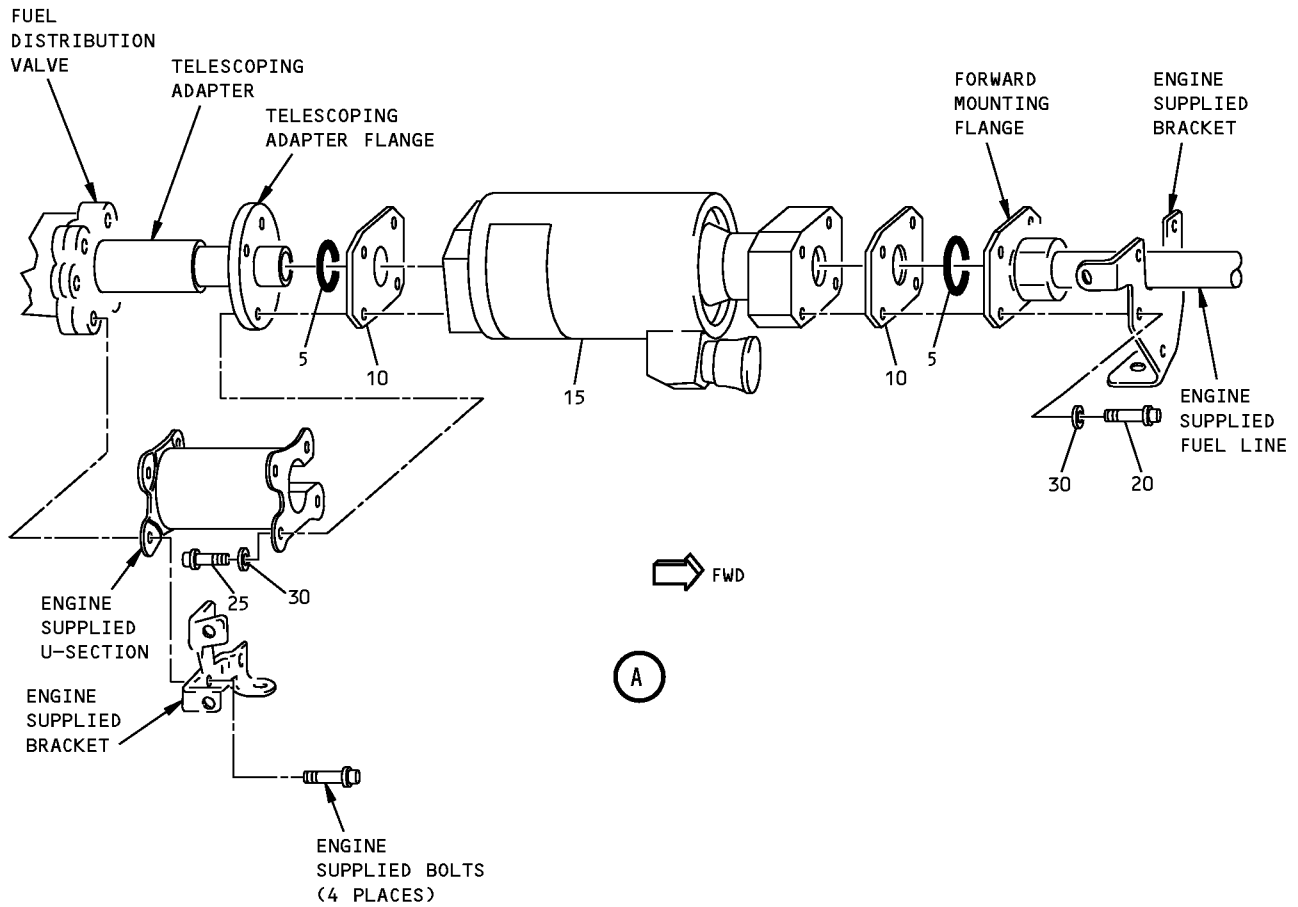
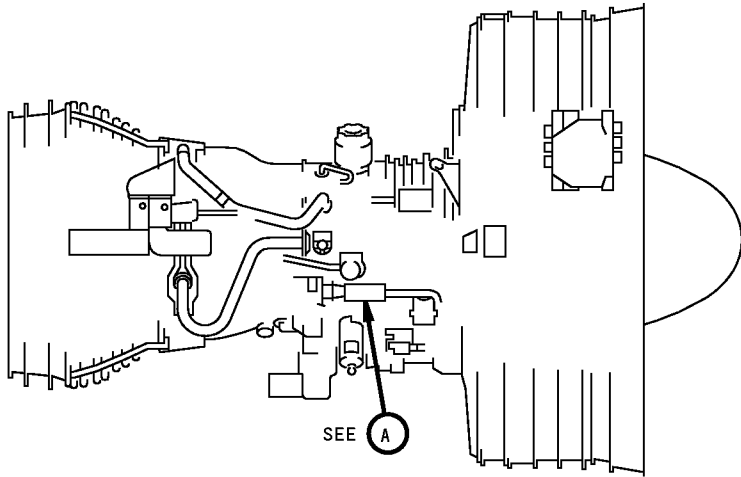
**71-00-02**

P/P BUILDUP FIGURE 7-1

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**POWERPLANT BUILDUP MANUAL**



**Fuel Flow Transmitter Installation  
Figure 7-1 (Sheet 1)**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
7-1		<b>FUEL FLOW TRANSMITTER INSTALLATION (FIGURE 7-1, SHEET 1)</b>		
		REMOVE ENGINE SUPPLIED BOLTS, BRACKET, AND U-SECTION FROM FUEL DISTRIBUTION VALVE INLET. RETAIN BOLTS AND U-SECTION. SLIDE PW TELESCOPING ADAPTER ASSEMBLY AFT UNTIL IT BOTTOMS AGAINST THE FUEL DISTRIBUTION VALVE.		
		LUBRICATE SEAL (5) WITH grease, D00504 (C1) AND INSTALL IN O-RING GROOVES OF FORWARD MOUNTING FLANGE AND TELESCOPING ADAPTER FLANGE.		
5	M25988-3-217	. SEAL		2
C1	D00504	. GREASE	CON	AR
		POSITION GASKET (10) AND FUEL FLOW TRANSMITTER (15) ON FORWARD MOUNTING FLANGE. ALIGN INDEXING PIN AND SECURE TRANSMITTER (15) AND ENGINE BRACKET WITH ITEMS (20, 30). POSITION GASKET (10) ON TELESCOPING ADAPTER ASSEMBLY AND SLIDE FORWARD TO ENGAGE FUEL FLOW TRANSMITTER (15). LUBRICATE ENGINE SUPPLIED BOLTS. INSTALL ENGINE SUPPLIED U-SECTION, BRACKET, AND BOLTS. TIGHTEN BOLTS TO 85-95 LB-IN. ALIGN INDEXING PIN AND SECURE TRANSMITTER (15) WITH ITEMS (25, 30). INSTALL cable, G02473 (C2) OR lockwire, G01912 (C3) (0.032 IN DIA) BOLTS (20, 25).		
10	H3-1118	. GASKET (V34941)	VEN	2
10	CA9203	. GASKET (V95272) (OPT)	OPT	-
10	40575	. GASKET (V98159) (OPT)	OPT	-
15	8TJ124GGN3	. TRANSMITTER (V97424) (BOEING S347T001-12)	VEN	-
15	S347T001-12	. TRANSMITTER		1
20	BACB30LE4HU8	. BOLT		4
20	BACB30LE4HU7	. BOLT (REPLACED BY BACB30LE4HU8)	LTD	-
25	BACB30LE4HU8	. BOLT		4
30	BACW10BP4ACU	. WASHER		8
C2	G02473	. CABLE	CON	AR
C3	G01912	. LOCKWIRE	CON	AR

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P/P BUILDUP FIGURE 7-1

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FIGURE 7-2

# FIRE/OVERHEAT DETECTOR INSTALLATION

REF QEC TASK NO.: 7

REF DWG: 332T4510  
332T4250

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

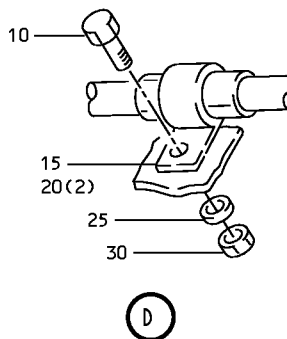
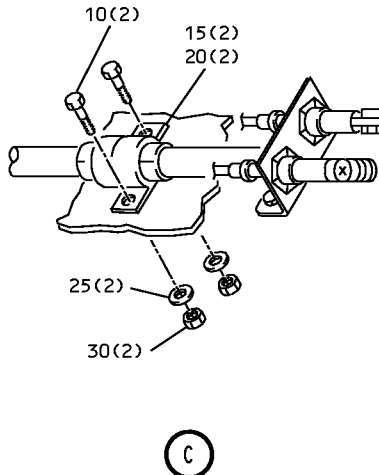
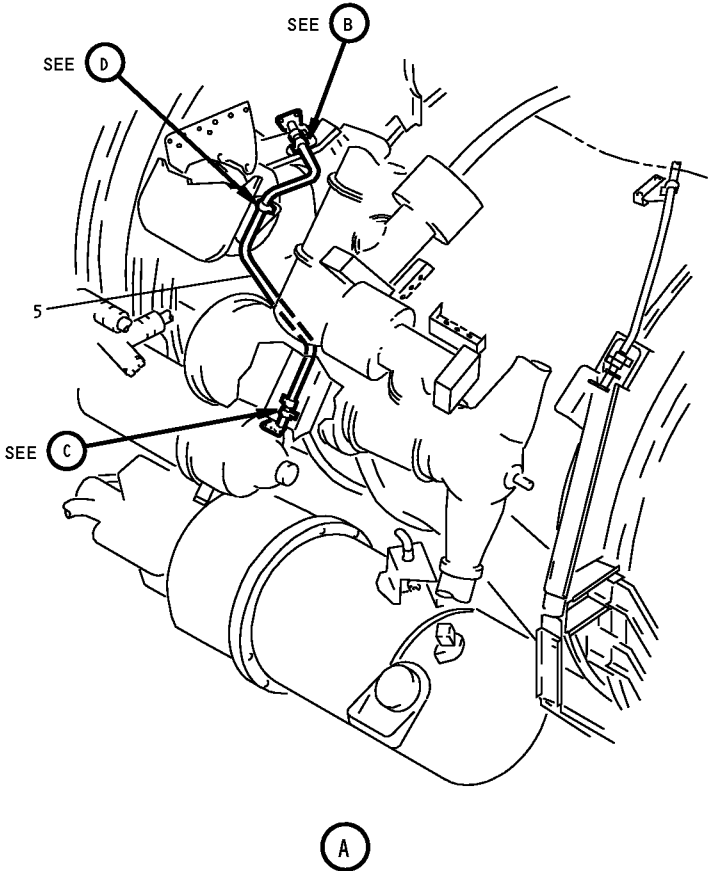
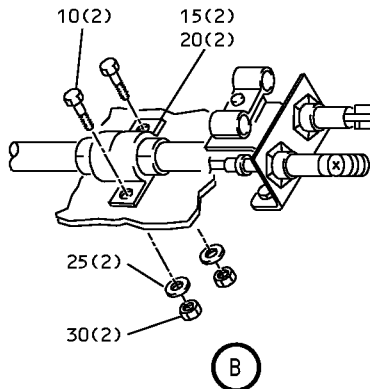
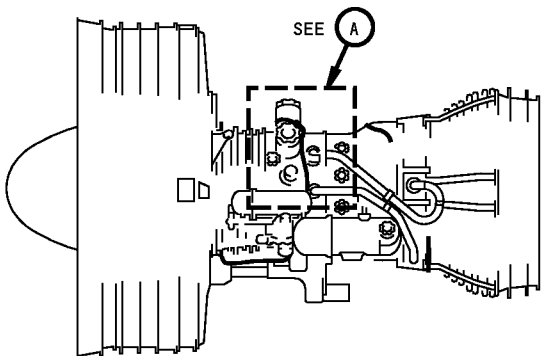
**71-00-02**

P/P BUILDUP FIGURE 7-2

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**POWERPLANT BUILDUP MANUAL**



**Fire/Overheat Detector Installation**  
**Figure 7-2 (Sheet 1)**

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POWERPLANT BUILDUP MANUAL

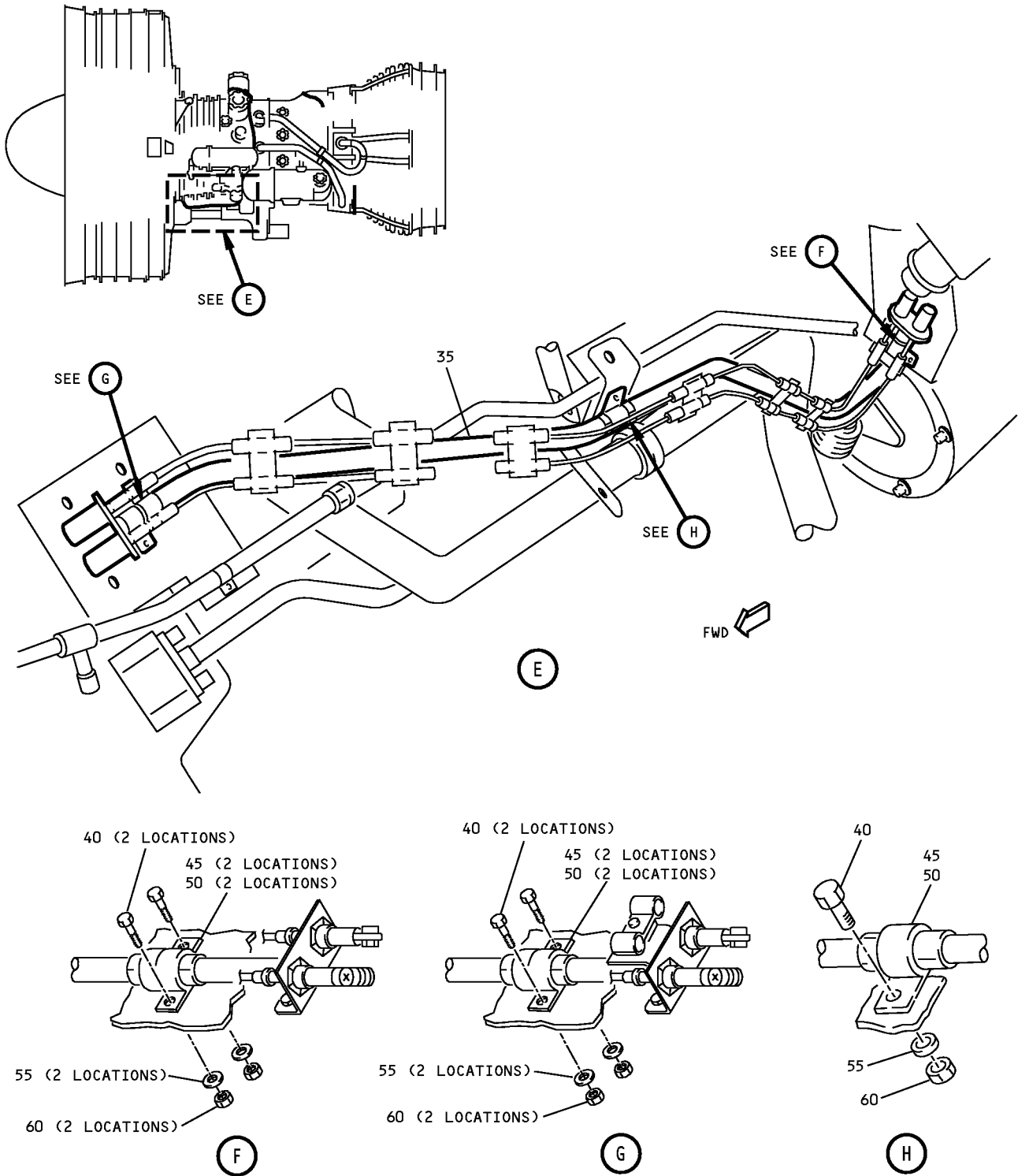
ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
7-2		<b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 7-2, SHEET 1)</b>		
		<b>NOTE:</b> CHECK ELECTRICAL BONDING RESISTANCE BETWEEN ELEMENT CONNECTOR CASES TO BRACKETS (0.005 OHM MAX.) AND BRACKETS TO ENGINE CASE (0.005 OHMS MAX).		
		SEE TUBES AND FITTING STANDARD PRACTICES FOR PRELOAD REQUIREMENTS.		
1	BACS18AF3	. SPACER (NOT ILLUSTRATED)		AR
		POSITION UPPER FORWARD FIRE/OVERHEAT DETECTOR (5) AND SECURE WITH ITEMS (10 THRU 30).		
5	BCREFD00021	. FIRE DETECTOR (V61423)	VEN	1
5	472567	. FIRE DETECTOR (V61423) (BOEING S332T101-20)	VEN	-
5	S332T101-20	. FIRE DETECTOR (OPTIONAL TO BCREFD00021)	OPT	-
10	BACS12HN3U8	. SCREW		5
15	BACC10GT1-08	. CLAMP		5
20	BACC10GT2-08	. CLAMPSHELL		6
25	NAS1149C0332R	. WASHER		5
30	BACN10YR3C	. NUT		5

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P/P BUILDUP FIGURE 7-2

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652382 S00041199212\_V2

**Fire/Overheat Detector Installation**  
**Figure 7-2 (Sheet 2)**

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P/P BUILDUP FIGURE 7-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
7-2		<b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 7-2, SHEET 2)</b>		
		POSITION LOWER FORWARD FIRE DETECTOR (35) AND SECURE WITH ITEMS (40 THRU 60).		
35	472568-1	. FIRE DETECTOR (V61423) (BOEING S332T101-38)	VEN	-
35	S332T101-38	. FIRE DETECTOR		1
35	472568	. FIRE DETECTOR (V61423) (BOEING S332T101-19)	VEN	-
35	S332T101-19	. FIRE DETECTOR (REPLACED BY S332T101-38)	LTD	-
40	BACS12HN3U8	. SCREW		5
45	BACC10GT1-08	. CLAMP		5
50	BACC10GT2-08	. CLAMPSHELL		6
55	NAS1149C0332R	. WASHER		5
60	BACN10YR3C	. NUT		5

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P/P BUILDUP FIGURE 7-2

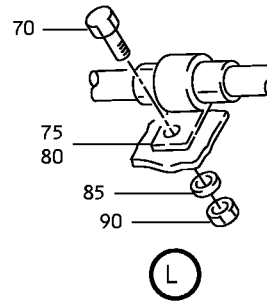
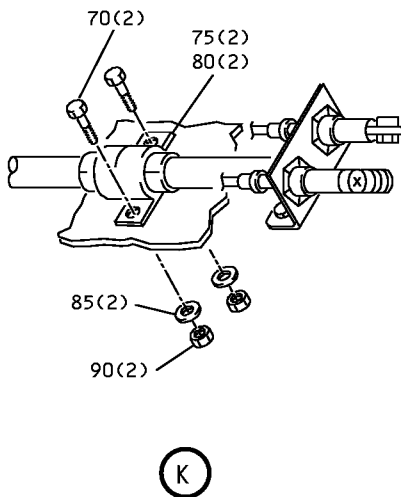
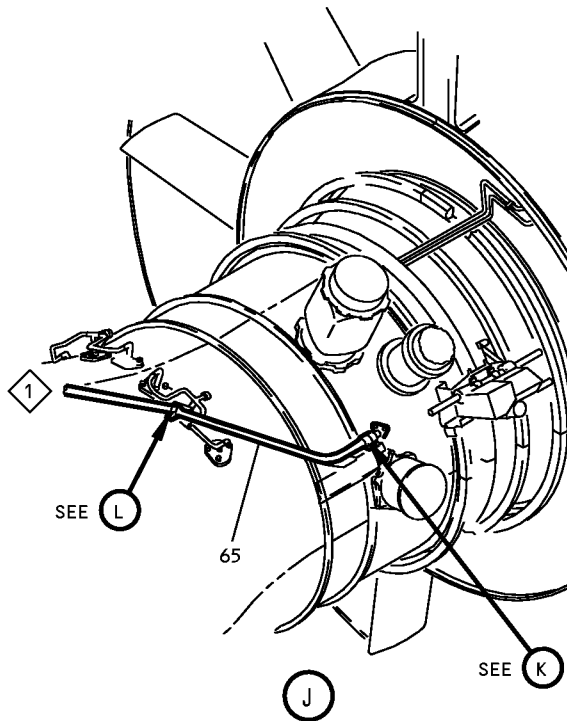
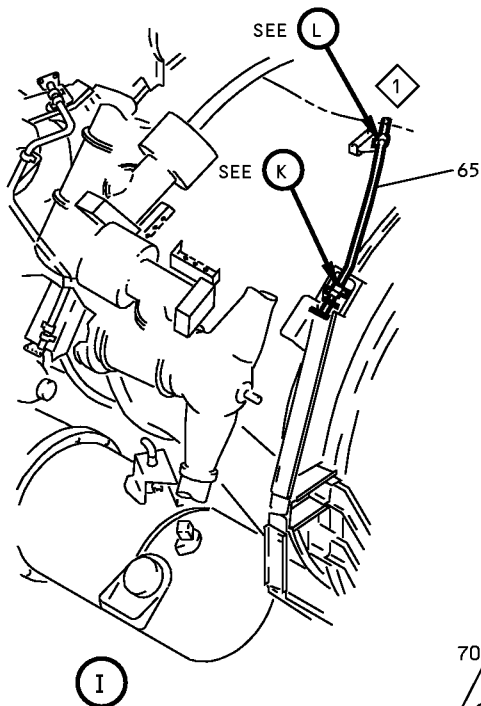
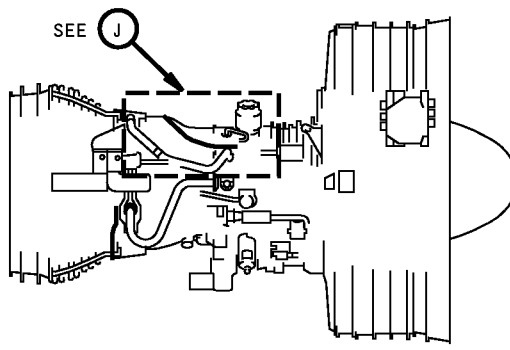
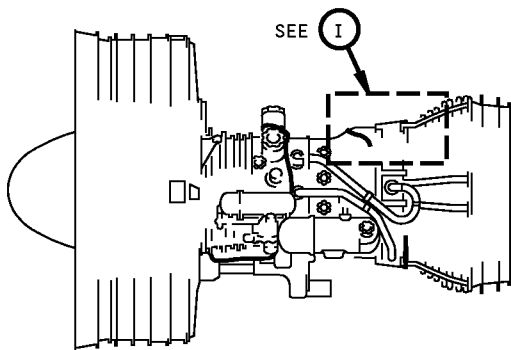
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**POWERPLANT BUILDUP MANUAL**



**Fire/Overheat Detector Installation  
Figure 7-2 (Sheet 3)**

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P/P BUILDUP FIGURE 7-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
7-2		<b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 7-2, SHEET 3)</b>		
		POSITION UPPER AFT FIRE DETECTOR (65) AND SECURE WITH ITEMS (70 THRU 90).		
65	472565	. FIRE DETECTOR (V61423) (BOEING S332T101-22)	VEN	-
65	S332T101-22	. FIRE DETECTOR		1
70	BACS12HN3U8	. SCREW		6
75	BACC10GT1-08	. CLAMP		6
80	BACC10GT2-08	. CLAMPSHELL		8
85	NAS1149C0332R	. WASHER		6
90	BACN10YR3C	. NUT		6

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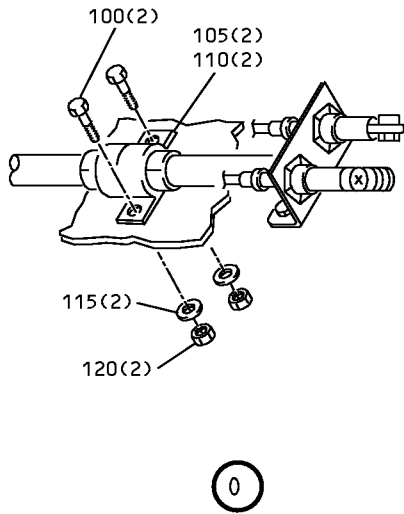
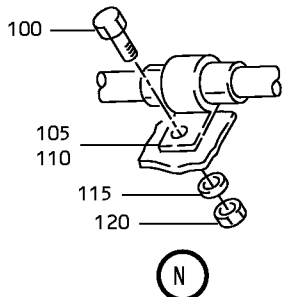
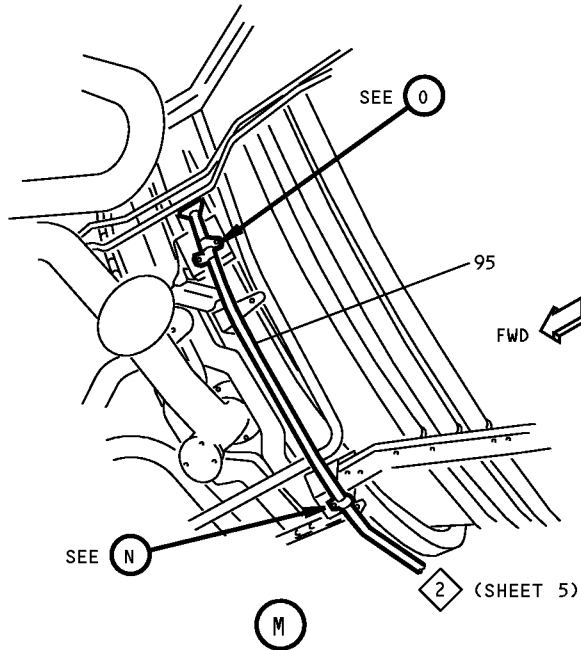
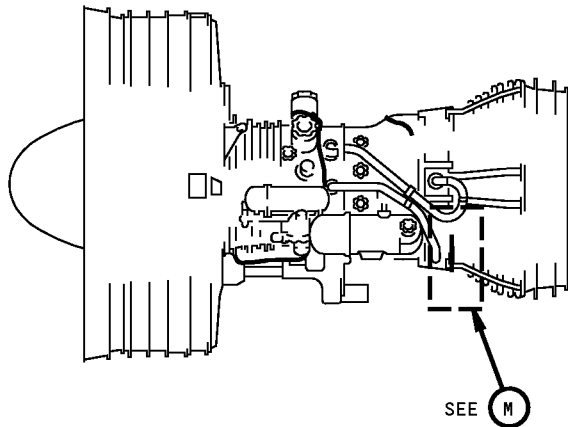
P/P BUILDUP FIGURE 7-2

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**POWERPLANT BUILDUP MANUAL**



**Fire/Overheat Detector Installation  
Figure 7-2 (Sheet 4)**

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P/P BUILDUP FIGURE 7-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
7-2		<b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 7-2, SHEET 4)</b>		
		POSITION LOWER AFT FIRE DETECTOR (95) AND SECURE WITH ITEMS (100 THRU 120).		
95	472566	. FIRE DETECTOR (V61423) (BOEING S332T101-21)	VEN	-
95	S332T101-21	. FIRE DETECTOR		1
100	BACS12HN3U8	. SCREW		6
105	BACC10GT1-08	. CLAMP		6
110	BACC10GT2-08	. CLAMPSHELL		8
115	NAS1149C0332R	. WASHER		6
120	BACN10YR3C	. NUT		6

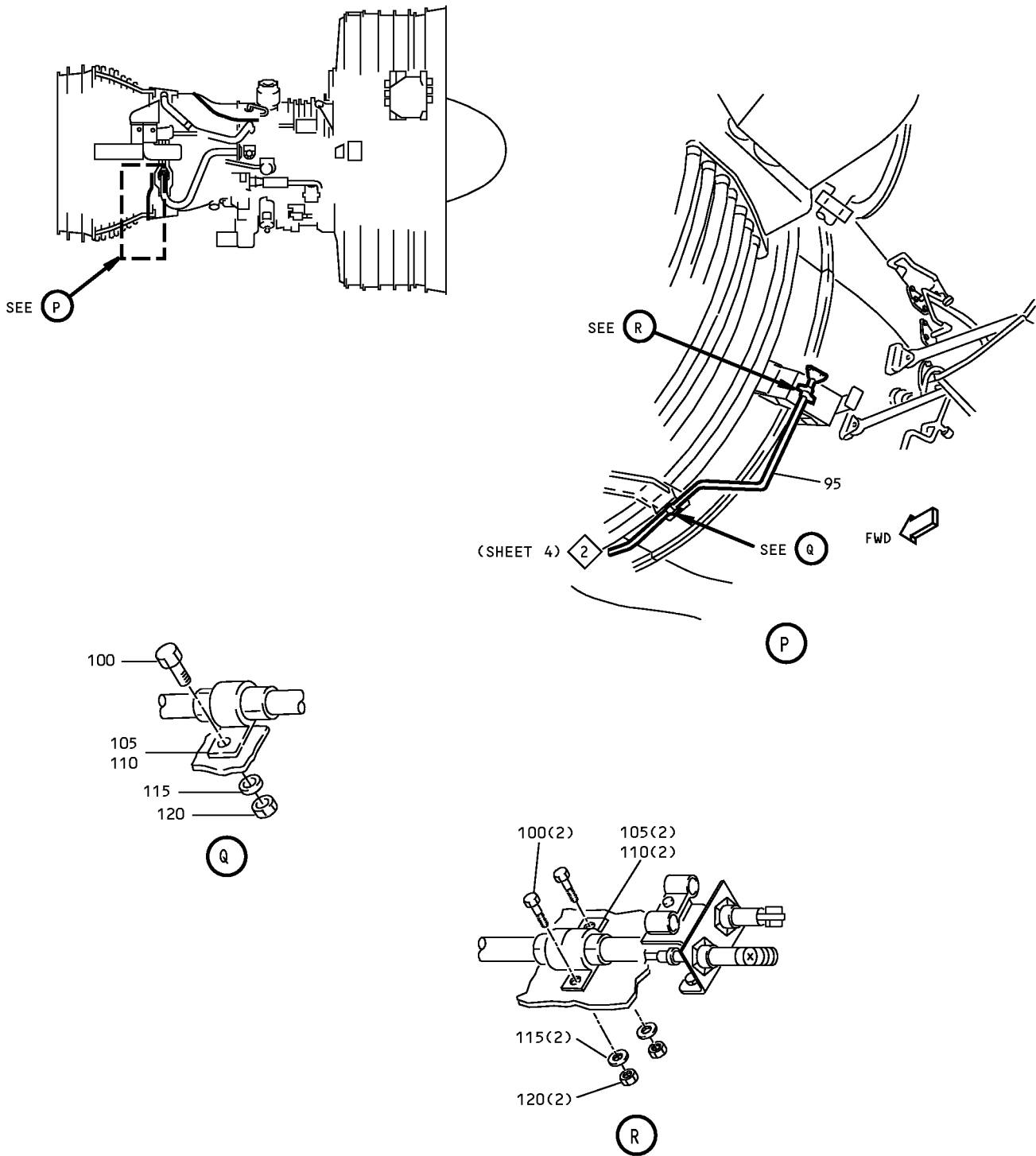
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P/P BUILDUP FIGURE 7-2

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Fire/Overheat Detector Installation  
Figure 7-2 (Sheet 5)

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P/P BUILDUP FIGURE 7-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
7-2		<b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 7-2, SHEET 5)</b>		
		POSITION LOWER AFT FIRE DETECTOR (95) AND SECURE WITH ITEMS (100 THRU 120).		
95	472566	. FIRE DETECTOR (V61423) (BOEING S332T101-21)	VEN	-
95	S332T101-21	. FIRE DETECTOR		1
100	BACS12HN3U8	. SCREW		6
105	BACC10GT1-08	. CLAMP		6
110	BACC10GT2-08	. CLAMPSHELL		8
115	NAS1149C0332R	. WASHER		6
120	BACN10YR3C	. NUT		6

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P/P BUILDUP FIGURE 7-2

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FIGURE 7-3

# FUEL PRESSURE TRANSMITTER INSTALLATION

REF QEC TASK NO.: 7

REF DWG: 332T4461

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

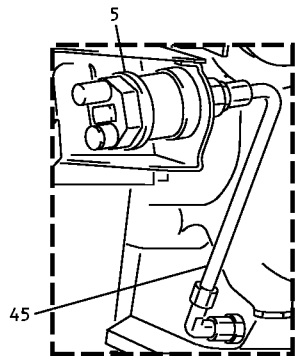
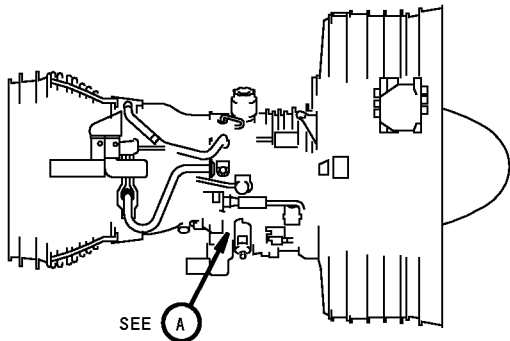
**71-00-02**

P/P BUILDUP FIGURE 7-3

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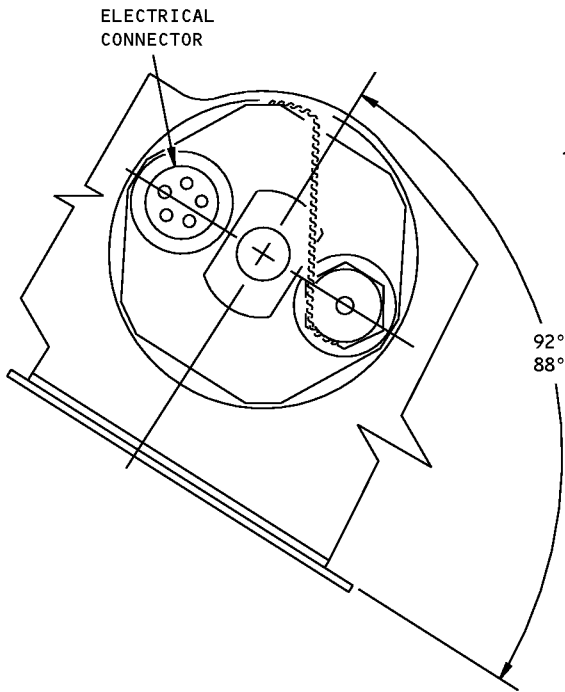
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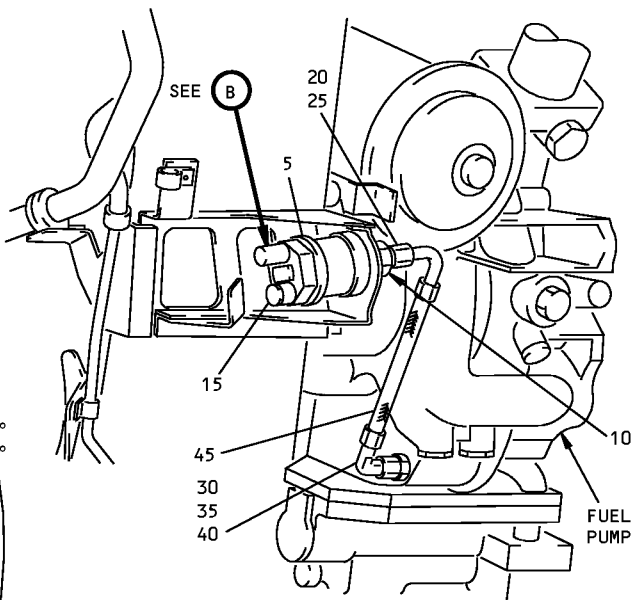
TUBE ASSEMBLY

A



TRANSMITTER CLOCKING

B



HOSE ASSEMBLY

FWD

A

CONFIGURATION A

Fuel Pressure Transmitter Installation  
Figure 7-3 (Sheet 1)

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P/P BUILDUP FIGURE 7-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
7-3		<b>FUEL PRESSURE TRANSMITTER INSTALLATION (FIGURE 7-3, SHEET 1)</b> <u>ENGINES WITHOUT HOSE SUPPORT CLAMP - CONFIG A (PRE-SB 767-73-0032)</u>  POSITION TRANSMITTER (5) AND SECURE WITH NUT (10). INSTALL PLUG (15) IN TRANSMITTER (5). LOCKWIRE PLUG AND NUT.		
5	418-01124	. TRANSMITTER (V58880) (BOEING S332T305-8)	VEN	-
5	S332T305-8	. TRANSMITTER (1 REQD)	LTD	-
10	BACN10DR12J	. NUT (1 REQD)	LTD	-
10	BACN10DR12S	. NUT (1 REQD) (OPTIONAL TO BACN10DR12J)	LTD	-
15	69B91183-1	. PLUG (1 REQD)	LTD	-
		INSTALL PACKING (20) AND UNION (25) ON TRANSMITTER (5).		
20	AS3581-904	. PACKING, O-RING (1 REQD)	LTD	-
25	MS21902J4	. UNION (1 REQD)	LTD	-
		INSTALL PACKING (30), REDUCER (35) AND ELBOW (40) INTO FUEL PUMP.		
30	AS3581-608	. PACKING, O-RING (1 REQD)	LTD	-
35	MS21916J6-4	. REDUCER (1 REQD)	LTD	-
40	BACE21BT0404JN	. ELBOW (1 REQD)	LTD	-
		CONNECT HOSE ASSY (45) LOOSELY BETWEEN UNION (25) AND ELBOW (40). CHECK THAT FLEX HOSE IS STRAIGHT AND SMOOTH.		
45	AS138-04N0071L	. HOSE ASSY (1 REQD)	LTD	-
45	332T4461-2	. TUBE ASSY (REPLACED BY AS138-04N0071L)	LTD	-

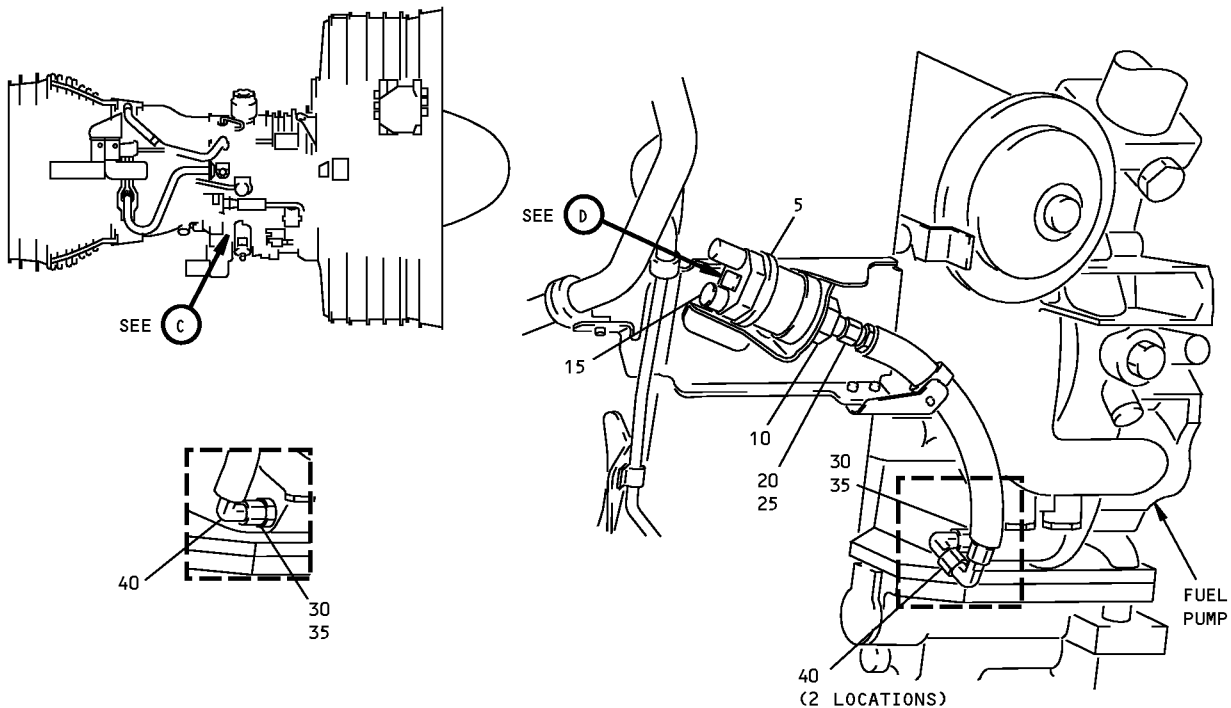
**71-00-02**

P/P BUILDUP FIGURE 7-3

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**POWERPLANT BUILDUP MANUAL**

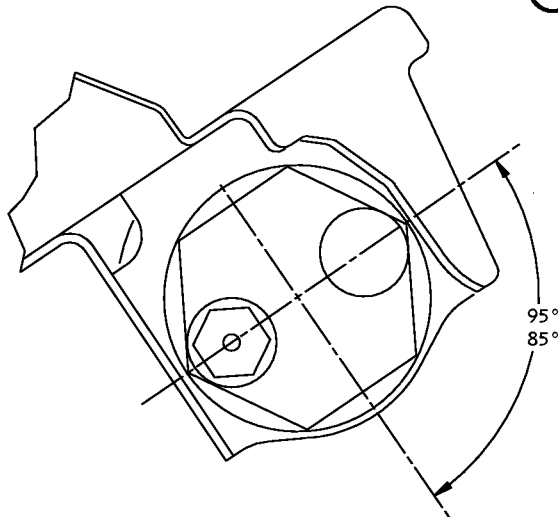


ORIGINAL CONFIGURATION

(C)

PREFERRED CONFIGURATION

(C)



TRANSMITTER CLOCKING

(D)

CONFIGURATION B

**Fuel Pressure Transmitter Installation  
Figure 7-3 (Sheet 2)**

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P/P BUILDUP FIGURE 7-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
7-3		<p><b>FUEL PRESSURE TRANSMITTER INSTALLATION (FIGURE 7-3, SHEET 2)</b></p> <p><b>CAUTION:</b> RETAIN END FITTING DURING TIGHTENING TO PREVENT FLEX HOSE FAILURE.</p> <p>TIGHTEN END FITTINGS.</p> <p><u>ENGINES WITH HOSE SUPPORT CLAMP - CONFIG B (POST-SB 767-73-0032)</u></p> <p>POSITION TRANSMITTER (5) AND SECURE WITH NUT (10). INSTALL PLUG (15) IN TRANSMITTER (5). LOCKWIRE PLUG AND NUT.</p>		
5	418-01124	. TRANSMITTER (V58880) (BOEING S332T305-8)	VEN	-
5	S332T305-8	. TRANSMITTER		1
10	BACN10DR12J	. NUT		1
10	BACN10DR12S	. NUT (1 REQD)	LTD	-
15	69B91183-1	. PLUG		1
		INSTALL PACKING (20) AND REDUCER (25) ON TRANSMITTER (5). TIGHTEN TO 133-147 LB-IN.		
20	AS3581-904	. PACKING, O-RING		1
25	MS21916J6-4	. REDUCER		1
		INSTALL PACKING (30) AND UNION (35) INTO FUEL PUMP. TIGHTEN TO 110-120 LB-IN.		
30	AS3581-906	. PACKING, O-RING		1
35	32465J06-054	. UNION (V14397)	VEN	1
35	MS21902J6	. UNION (REPLACED BY 32465J06-054)	LTD	-
		<b>CAUTION:</b> RETAIN UNION WHILE TIGHTENING ELBOW TO PREVENT DAMAGE TO FUEL PUMP.		
		INSTALL ELBOW (40) ON UNION (35). TIGHTEN TO 257-283 LB-IN.		
40	BACE21BT0606JN	. ELBOW (PREFERRED CONFIGURATION)		2
40	BACE21BT0606JN	. ELBOW (ORIGINAL CONFIGURATION)	LTD	-

71-00-02

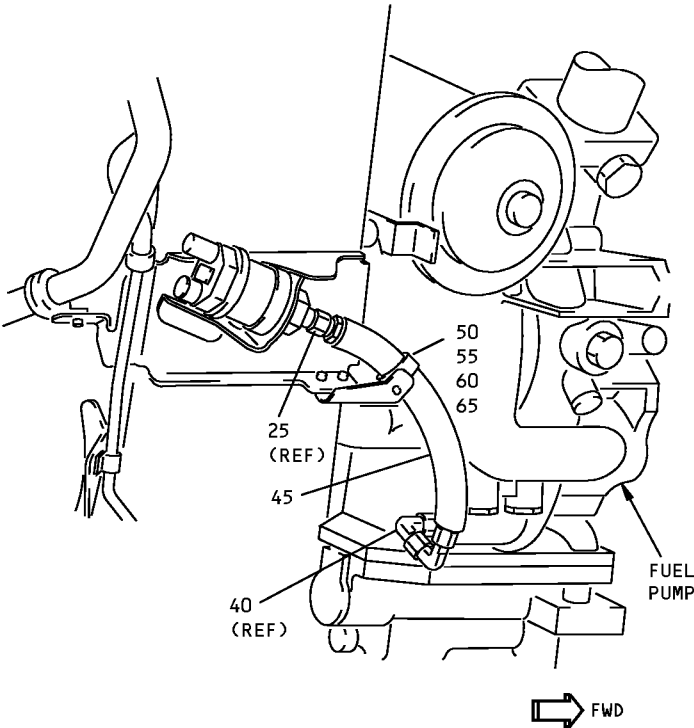
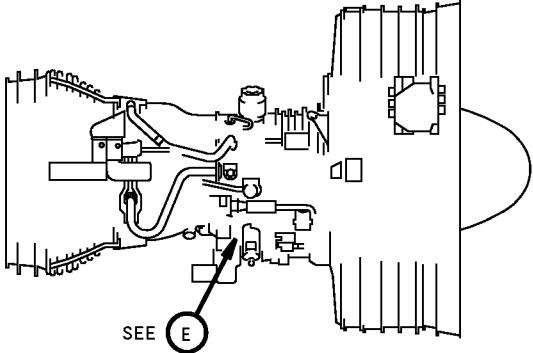
P/P BUILDUP FIGURE 7-3

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**POWERPLANT BUILDUP MANUAL**



CONFIGURATION B

(E)

**Fuel Pressure Transmitter Installation  
Figure 7-3 (Sheet 3)**

**71-00-02**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
7-3		<b>FUEL PRESSURE TRANSMITTER INSTALLATION (FIGURE 7-3, SHEET 3)</b> <u>ENGINES WITH HOSE SUPPORT CLAMP - CONFIG B (POST-SB 767-73-0032) (CONTINUED)</u>  CONNECT HOSE (45) LOOSELY BETWEEN REDUCER (25) AND ELBOW (40). CHECK THAT FLEX HOSE IS STRAIGHT AND SMOOTH. . HOSE (V00624) (BOEING S332T461-1) . HOSE  <b>CAUTION:</b> RETAIN REDUCER AND UNION WHILE TIGHTENING HOSE TO PREVENT DAMAGE TO PARTS.  TIGHTEN HOSE TO 257-283 LB-IN.  INSTALL CLAMP (50) TO BRACKET (REFERENCED IN BRACKET INSTALLATION - RIGHT SIDE CORE CASE/Figure 3-4 , ITEM 615) USING FASTENERS (55 THRU 65). . CLAMP . CLAMP (REPLACED BY TA027016-17) . SCREW . WASHER . NUT	VEN	- 1
45	AE709079-1			
45	S332T461-1			
50	TA027016-17		LTD	1
50	BACC10HS17			-
55	BACS12HN3U7			1
60	NAS1149C0316R			1
65	BACN10YR3C			1

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P/P BUILDUP FIGURE 7-3

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FIGURE 8-1

# INTEGRATED DRIVE GENERATOR INSTALLATION

REF QEC TASK NO.: 8

REF DWG: 332T4210

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

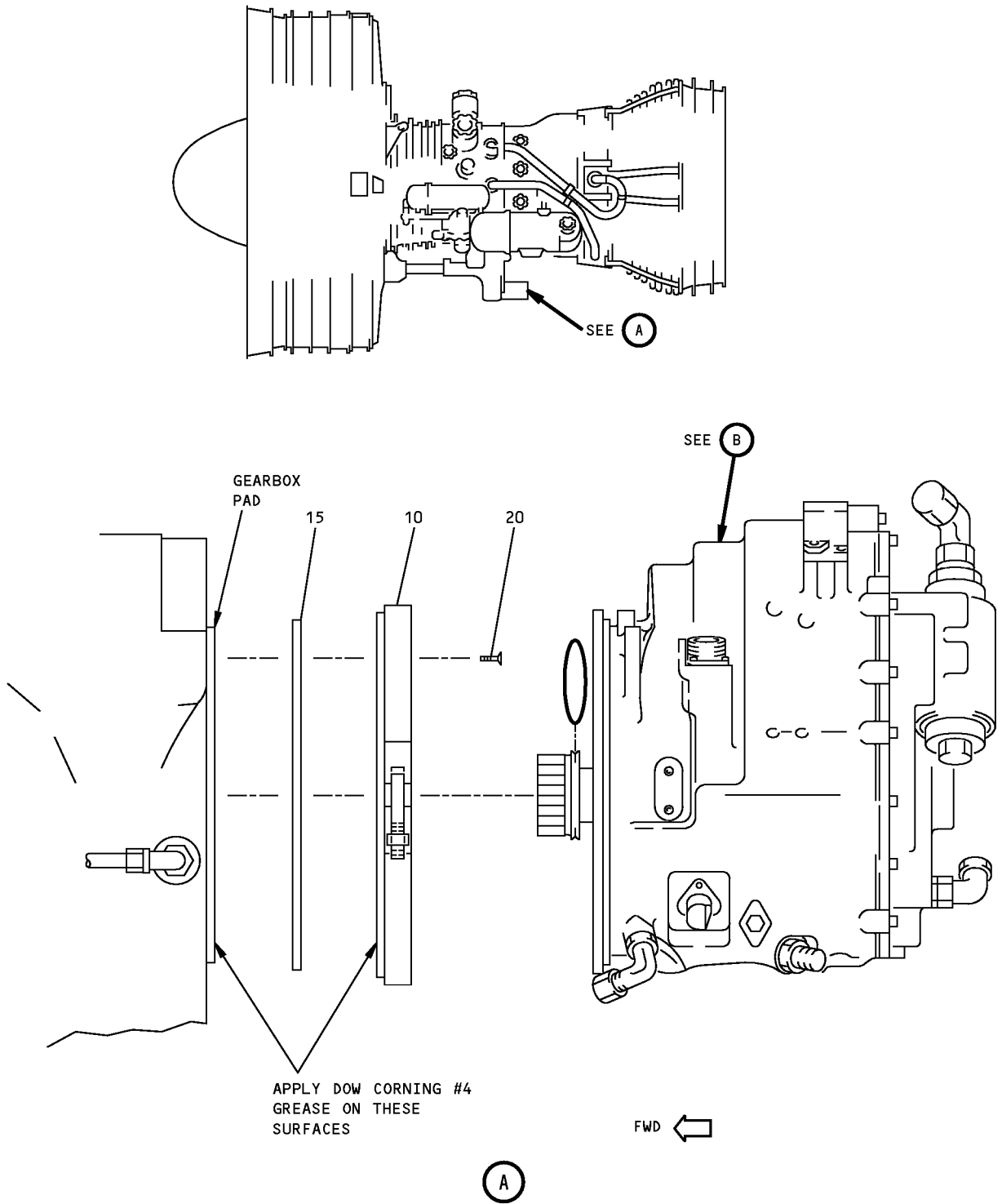
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P/P BUILDUP FIGURE 8-1

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**POWERPLANT BUILDUP MANUAL**



**Integrated Drive Generator Installation  
Figure 8-1 (Sheet 1)**

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P/P BUILDUP FIGURE 8-1

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-1		<p><b>INTEGRATED DRIVE GENERATOR INSTALLATION (FIGURE 8-1, SHEET 1)</b></p> <p>REMOVE RETAINING BOLT FROM IDG LIFTING POINT. INSTALL LIFTING RING AND HOIST IDG ONTO engine accessory lift fixture, SPL-1570 (T1). REMOVE LIFTING RING AND INSTALL RETAINING BOLT.</p> <p><b>CAUTION:</b> KEEP GREASE OUT OF DOWEL PIN AND BOLT HOLES. GREASE IN HOLES MAY RESULT IN DAMAGE TO GEARBOX DUE TO PRESSURE BUILD-UP WHEN BOLTS ARE INSTALLED. USE CARE TO KEEP FOREIGN MATTER OUT OF IDG.</p>		
T1	A71015	. ENGINE ACCESSORY LIFT FIXTURE, SPL-1570	TOL	-
		APPLY A COATING OF silicone compound, D00254 (C1) TO ADAPTER (10), SCREW THREADS (20), AND GEARBOX MOUNTING PAD. SECURE GASKET (15) AND QAD ADAPTER (10) TO ENGINE GEARBOX WITH SCREWS (20). TIGHTEN TO 276-300 LB-IN.		
5	730842B	. QAD ADAPTER KIT (V99167) (BOEING S281T001-13)	VEN	-
5	S281T001-13	. QAD ADAPTER KIT		1
10		. . ADAPTER (QAD RING) (SUPPLIED IN QAD KIT)	REF	-
15		. . GASKET (1 SUPPLIED IN QAD KIT)	REF	-
20		. . SCREW (8 SUPPLIED IN QAD KIT)	REF	-
C1	D00254	. SILICONE COMPOUND	CON	AR
		CHECK FOR 0.10 INCH MINIMUM CLEARANCE BETWEEN QAD AND THERMAL RADIATION SHIELD.		

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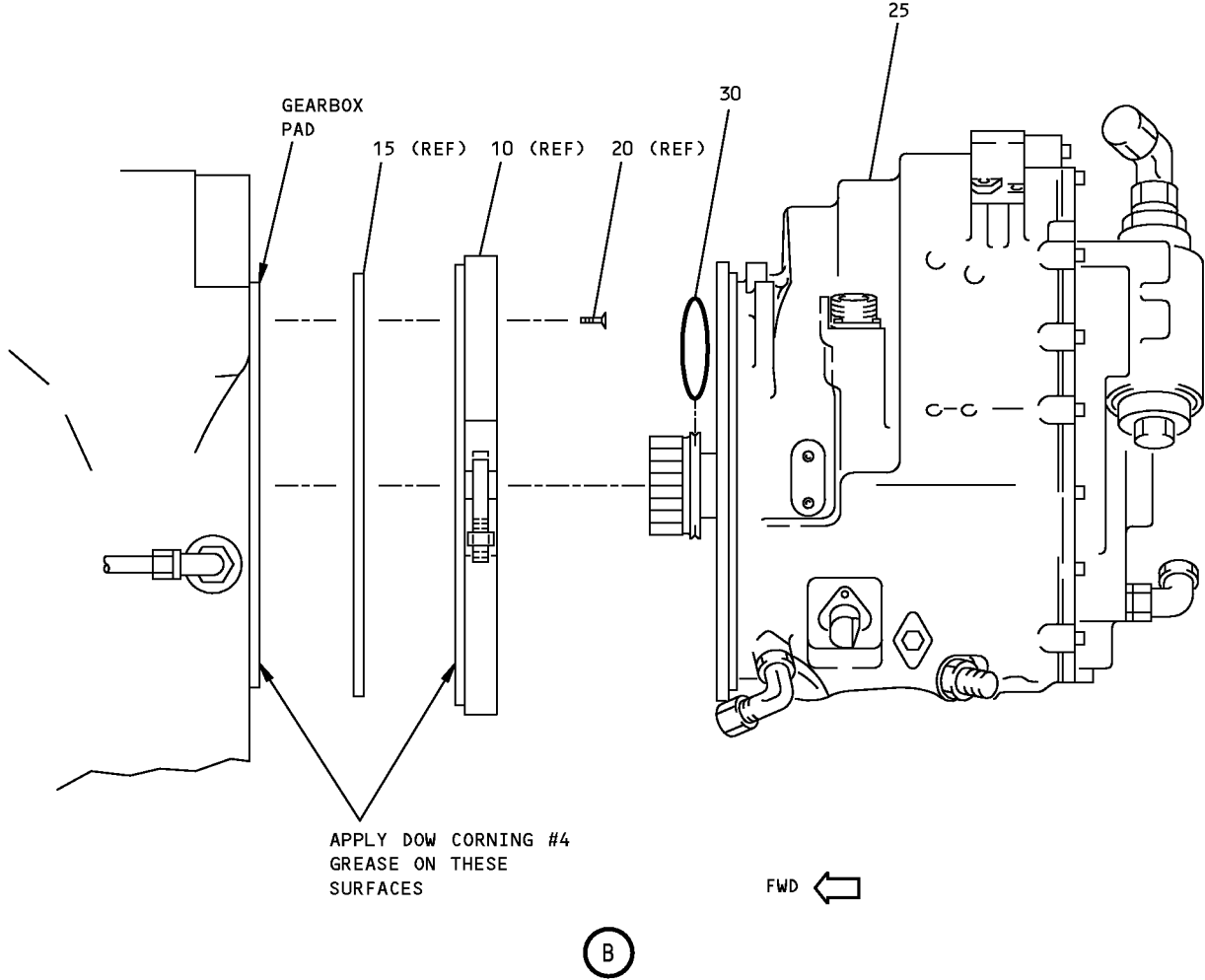
P/P BUILDUP FIGURE 8-1

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POWERPLANT BUILDUP MANUAL**



**Integrated Drive Generator Installation  
Figure 8-1 (Sheet 2)**

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-1		<b>INTEGRATED DRIVE GENERATOR INSTALLATION (FIGURE 8-1, SHEET 2)</b> LUBRICATE PACKING (30) WITH oil, D00109 (C2) AND INSTALL ON IDG SHAFT (25).		
25	745329F	. IDG ASSY (V99167) (BOEING 60B40161-30)	VEN	-
25	60B40161-30	. IDG ASSY		1
25	745329E	. IDG ASSY (V99167) (BOEING 60B40161-26)	VEN	-
25	60B40161-26	. IDG ASSY (REPLACED BY 60B40161-30)	LTD	-
25	745329C	. IDG ASSY (V99167) (BOEING 60B40161-22)	VEN	-
25	60B40161-22	. IDG ASSY (REPLACED BY 60B40161-26)	LTD	-
25	745329B	. IDG ASSY (V99167) (BOEING 60B40161-18)	VEN	-
25	60B40161-18	. IDG ASSY (REPLACED BY 60B40161-22)	LTD	-
25	745329	. IDG ASSY (V99167) (BOEING 60B40161-5)	VEN	-
25	60B40161-5	. IDG ASSY (REPLACED BY 60B40161-18)	LTD	-
30		. . PACKING, AS3209-138 (OPT) (QTY 1)	REF	-
30		. . PACKING, M83248-1-138 (OPT) (QTY 1)	REF	-
C2	D00109	. OIL	CON	AR

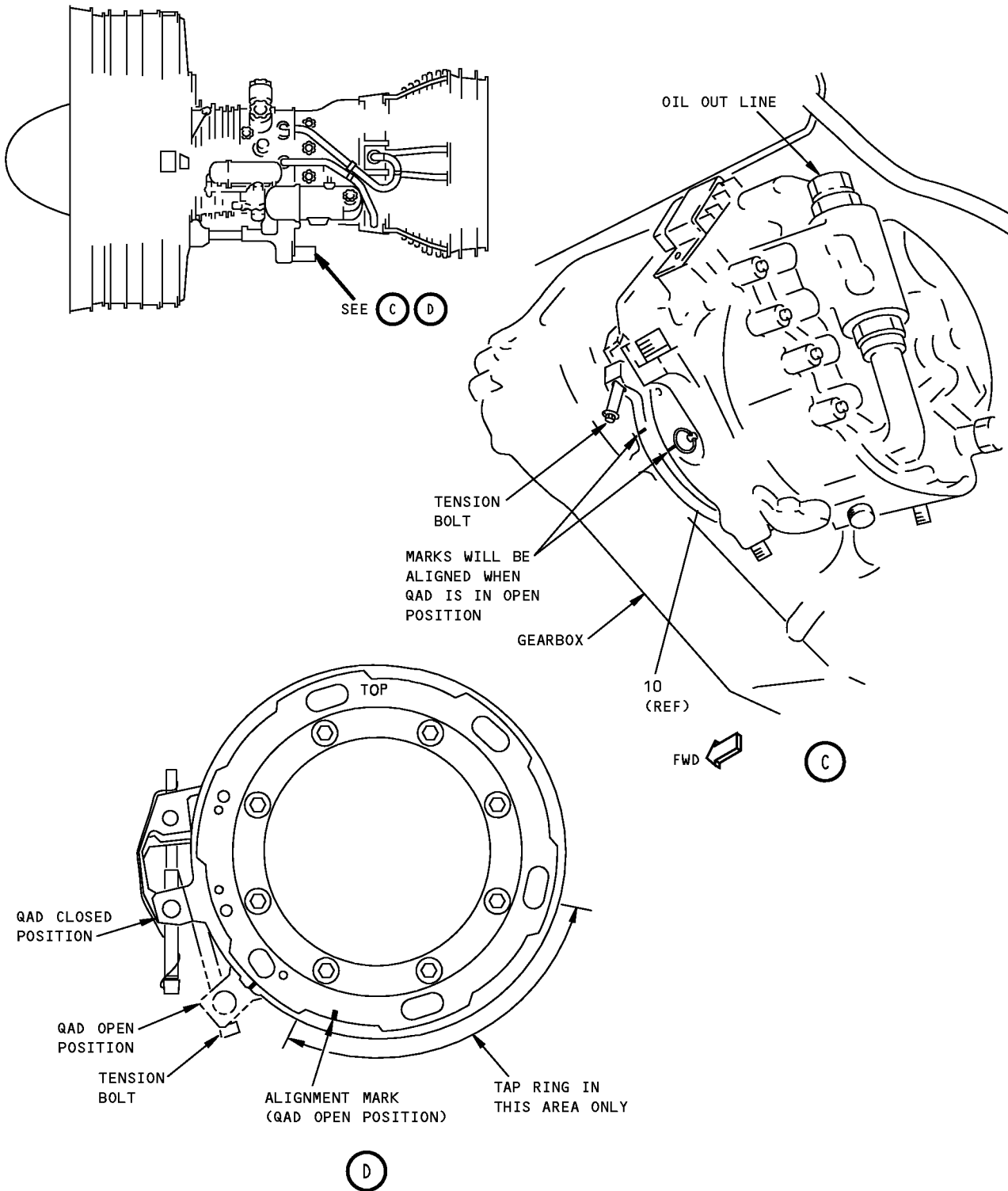
**71-00-02**

P/P BUILDUP FIGURE 8-1

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**POWERPLANT BUILDUP MANUAL**



273057 S00041199241\_V2

**Integrated Drive Generator Installation  
Figure 8-1 (Sheet 3)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-1		<p><b>INTEGRATED DRIVE GENERATOR INSTALLATION (FIGURE 8-1, SHEET 3)</b></p> <p><b>CAUTION:</b> DO NOT ALLOW IDG TO EXERT FORCE ON INPUT SHAFT.</p> <p>USING SUITABLE SUPPORT, POSITION IDG (25) TOWARDS GEARBOX MOUNTING PAD. ADJUST TENSION BOLT TO OPEN POSITION SO THAT THE LOCATING PIN ON IDG CAN ENGAGE LOCATING HOLE IN QAD ADAPTER (10). ALIGN MARKS ON IDG (25) AND ADAPTER (10). VERIFY THE LUGS ON THE IDG INPUT FLANGE CAN ENTER THE QAD RING OPENINGS. INDEX PIN ON IDG MUST ENGAGE INDEX HOLE ON QAD.</p> <p><b>CAUTION:</b> OBSERVE ACTION ON ADAPTER RING DURING TIGHTENING TO PREVENT BINDING OR SNAGGING.</p> <p>TIGHTEN QAD TENSION BOLT SO THE QAD RING LUGS FULLY ENGAGE THE IDG FLANGE LUGS. TIGHTEN TO 20-22 LB-FT. TAP QAD RING IN AREA SHOWN IN VIEW C WITH SOFT MALLET OR BRASS DRIFT. CHECK TORQUE VALUE ON EXTERNAL TORQUE BOLT.</p> <p>IF THE TORQUE IS LESS THAN 15 LB-FT, REAPPLY 20-22 LB-FT AND REPEAT TAP-TORQUE PROCEDURE UNTIL THE TORQUE ON THE EXTERNAL TORQUE BOLT DOES NOT DROP BELOW 15 LB-FT. RETIGHTEN TO 20-22 LB-FT AND SECURE WITH lockwire, G01048 (C3).</p> <p>IF THE TORQUE IS ABOVE 15 LB-FT, REPEAT TAPPING ON QAD RING AND CHECK TORQUE AGAIN. IF TORQUE REMAINS ABOVE 15 LB-FT, RETIGHTEN EXTERNAL TORQUE BOLT TO 20-22 LB-FT AND SECURE WITH lockwire, G01048 (C3).</p> <p>. LOCKWIRE</p>	CON	AR
C3	G01048			

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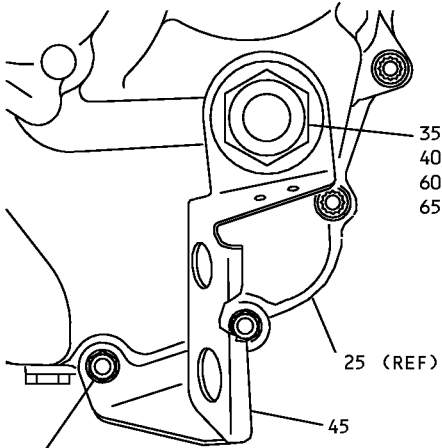
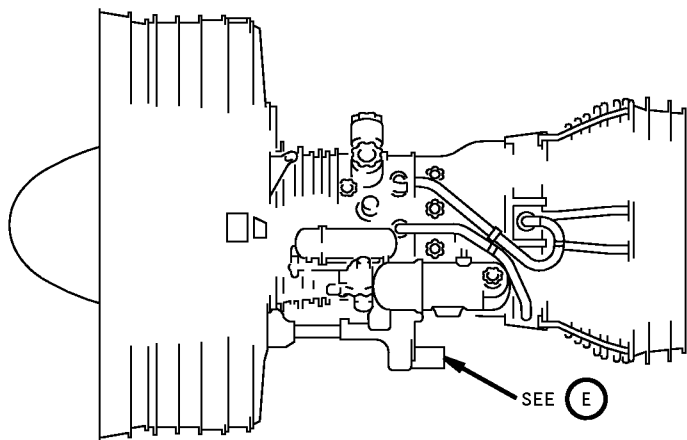
P/P BUILDUP FIGURE 8-1

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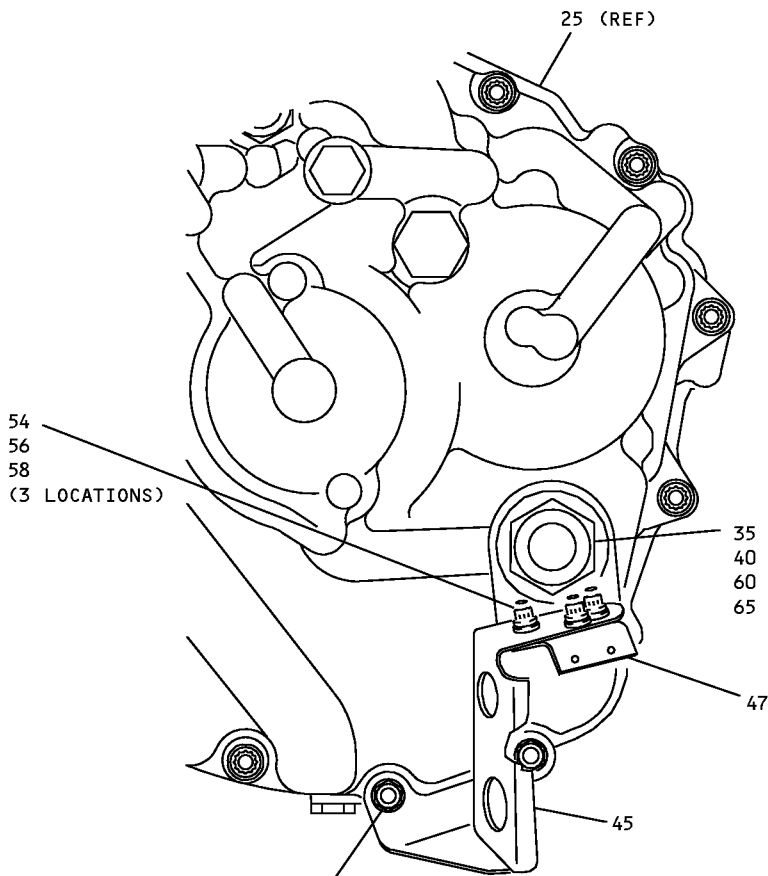
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POWERPLANT BUILDUP MANUAL**



**1 PIECE BRACKET**

**E**



**2 PIECE BRACKET**

**E**

**Integrated Drive Generator Installation  
Figure 8-1 (Sheet 4)**

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P/P BUILDUP FIGURE 8-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-1		<b>INTEGRATED DRIVE GENERATOR INSTALLATION (FIGURE 8-1, SHEET 4)</b>		
		INSTALL UNION (35) AND PACKING (40) INTO IDG.		
35	MS21924J12	. UNION		1
40	AS3581-912	. PACKING		1
		ATTACH BRACKETS (45, 47) TO IDG (25) WITH ITEMS (50 THRU 58) AND TO UNION (35) WITH ITEMS (60, 65).		
45	332T4211-11	. BRACKET <sup>[2]</sup>		1
45	332T4211-6	. BRACKET <sup>[1]</sup>		1
45	332T4211-2	. BRACKET (REPLACED BY 332T4211-6) <sup>[1]</sup>	LTD	-
47	332T4211-12	. BRACKET <sup>[2]</sup>		1
50	BACN10YR5C	. NUT		2
52	NAS1149C0563R	. WASHER		2
54	BACB30LM3U1	. BOLT <sup>[2]</sup>		3
56	NAS1149C0363R	. WASHER <sup>[2]</sup>		3
58	BACN10YR3C	. NUT <sup>[2]</sup>		3
60	NAS1149C1790R	. WASHER		1
65	AS5178J12	. NUT		1
		*[2] 2 PIECE BRACKET		
		*[1] 1 PIECE BRACKET		

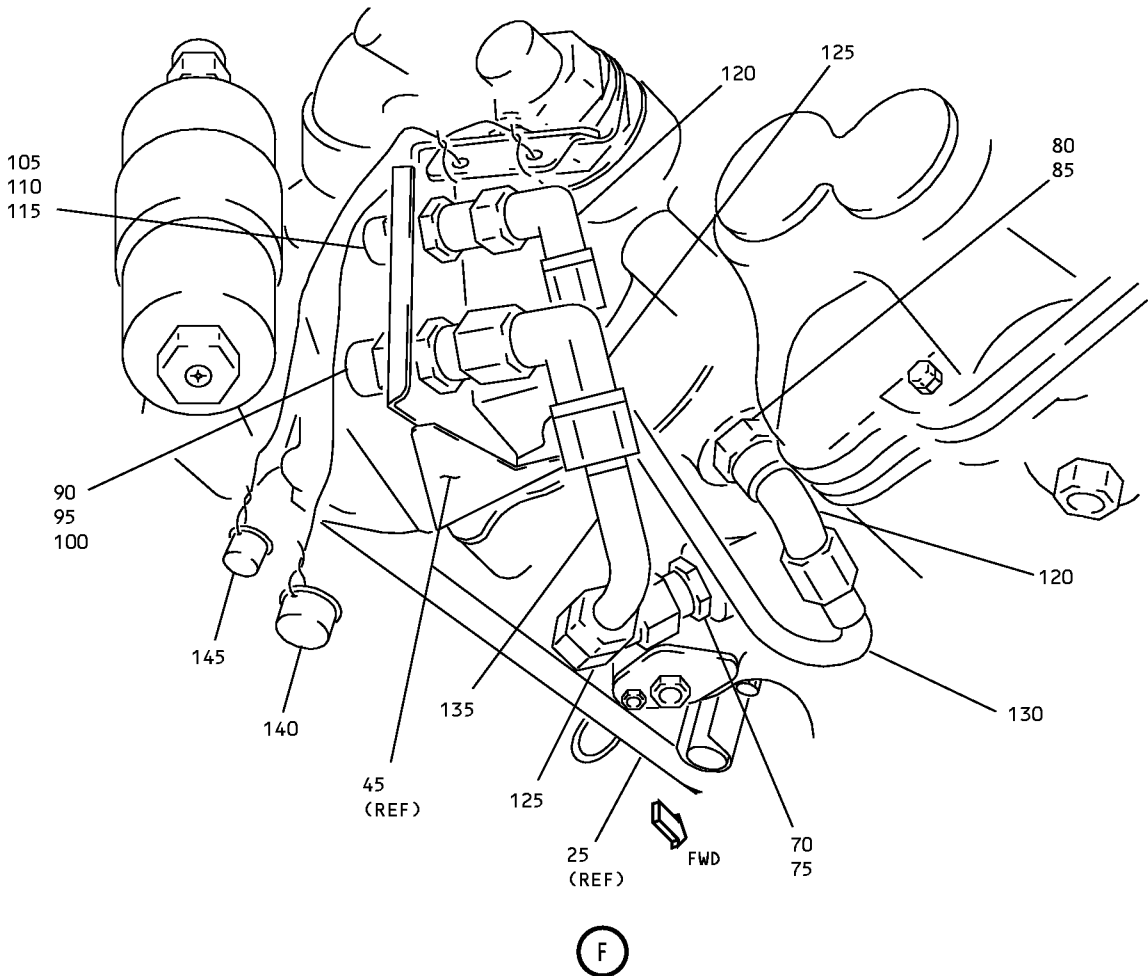
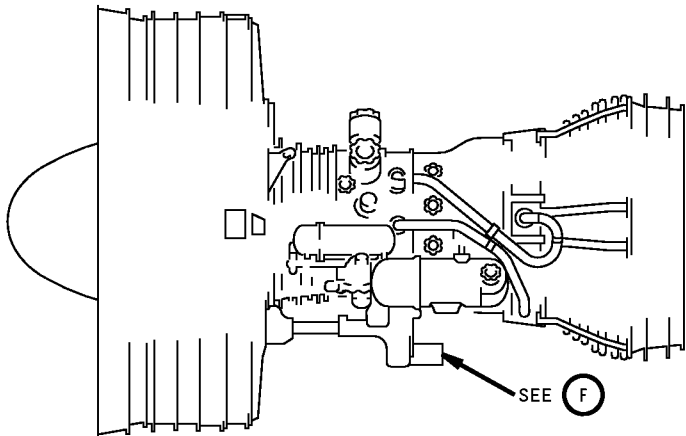
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P/P BUILDUP FIGURE 8-1

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POWERPLANT BUILDUP MANUAL**



**Integrated Drive Generator Installation  
Figure 8-1 (Sheet 5)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-1		<b>INTEGRATED DRIVE GENERATOR INSTALLATION (FIGURE 8-1, SHEET 5)</b>		
		INSTALL UNIONS (70, 80) AND PACKINGS (75, 85) INTO IDG.		
70	MS21902J8	. UNION		1
75	AS3581-908	. PACKING		1
80	MS21902J6	. UNION		1
85	AS3581-906	. PACKING		1
		ATTACH COUPLINGS (90, 105) TO BRACKET (45) USING ITEMS (95, 100, 110, 115).		
90	86-4101-1	. ADAPTER (V99321)	VEN	1
90	OMP2592-10	. COUPLING (V33068)	OPT	-
95	AS5178J08	. NUT		1
100	NAS1149C1290R	. WASHER		1
105	86-4102-1	. ADAPTER (V99321)	VEN	1
105	OMP2506-19	. COUPLING (V33068)	OPT	-
110	AS5178J06	. NUT		1
115	NAS1149C0963R	. WASHER		1
		POSITION ELBOWS (120, 125) AND TUBES (130, 135) BETWEEN IDG AND COUPLINGS (90, 105).		
120	BACE21BT0606JN	. ELBOW		2
125	BACE21BT0808JN	. ELBOW		2
130	332T4210-2	. TUBE ASSY		1
135	332T4210-3	. TUBE ASSY		1
		INSTALL PRESSURE COVER (140) ON COUPLING (105) AND PRESSURE COVER (145) ON COUPLING (90). ATTACH PRESSURE COVER MOUNTING HOOKS TO BRACKET (45).		
140	86-4102-2	. COVER PRESSURE (V99321)	VEN	1
140	OMP2506-6PS	. COVER PRESSURE (V33068)	OPT	-
145	86-4101-2	. COVER PRESSURE (V99321)	VEN	1
145	OMP2505-6PS	. COVER PRESSURE (V33068)	OPT	-

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P/P BUILDUP FIGURE 8-1

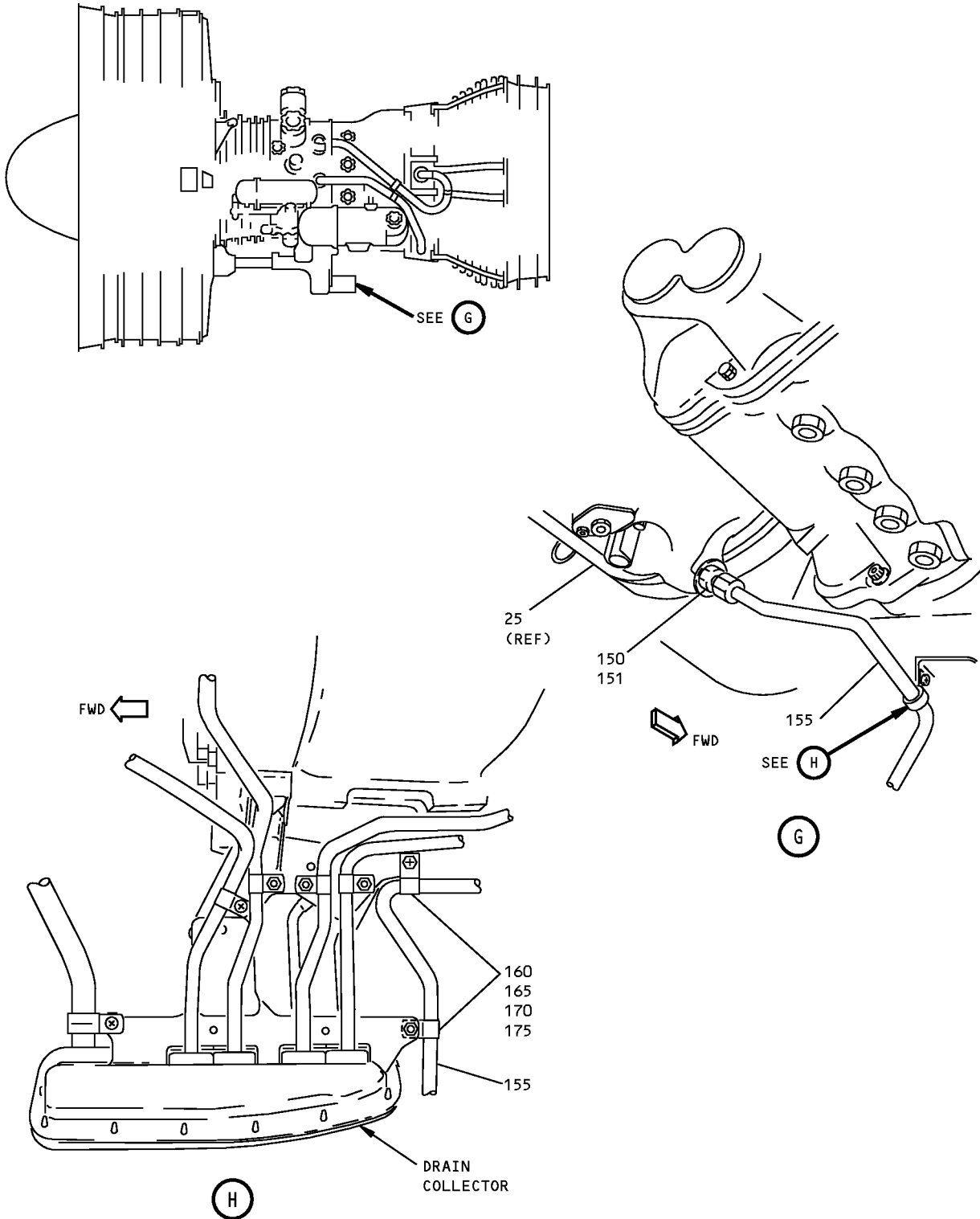
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**POWERPLANT BUILDUP MANUAL**



**Integrated Drive Generator Installation  
Figure 8-1 (Sheet 6)**

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P/P BUILDUP FIGURE 8-1  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-1		<b>INTEGRATED DRIVE GENERATOR INSTALLATION (FIGURE 8-1, SHEET 6)</b>		
		INSTALL UNION (150) AND PACKING (151) INTO IDG. ATTACH TUBE ASSY (155) TO UNION (150) AND SECURE USING ITEMS (160 THRU 175).		
150	MS21902J6	. UNION		1
151	AS3581-906	. PACKING		1
155	332T4710-75	. TUBE ASSY		1
155	332T4710-5	. TUBE ASSY (REPLACED BY 332T4710-75)	LTD	-
160	BACC10GT3-06	. CLAMP ASSY		2
	BACC10GT1-06	. . CLAMP (QTY 1)		
	BACC10GT2-06	. . CLAMPSHELL (QTY 2)		
165	BACS12HN3U7	. SCREW		2
170	NAS1149C0332R	. WASHER		2
175	BACN10YR3C	. NUT		2

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P/P BUILDUP FIGURE 8-1

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**FIGURE 8-2**

# **IDGS OIL SYSTEM PLUMBING INSTALLATION**

**REF QEC TASK NO.: 8**

**REF DWG: 332T4230  
332T4150**

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

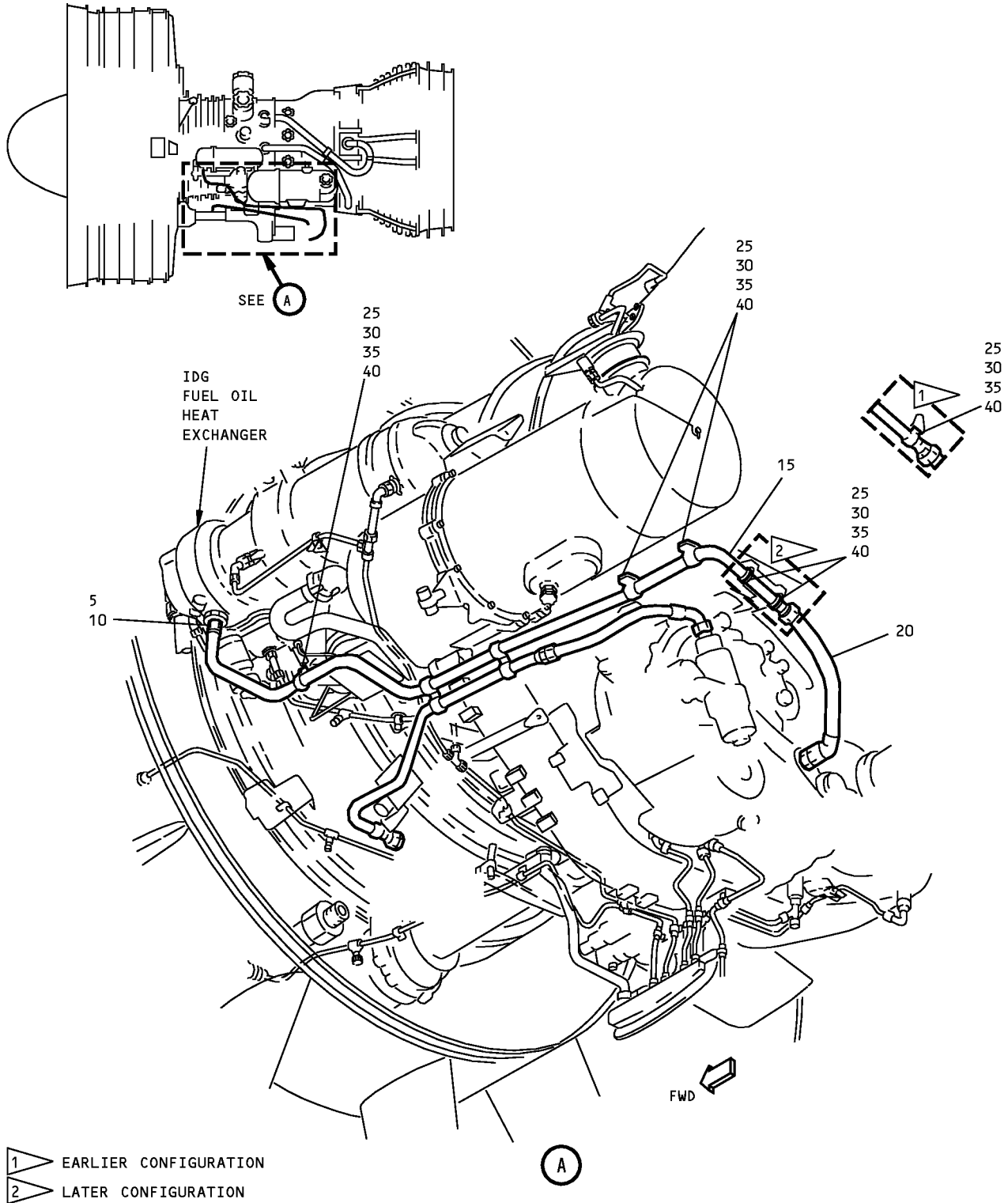
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P/P BUILDUP FIGURE 8-2

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**POWERPLANT BUILDUP MANUAL**



**IDGS Oil System Plumbing Installation  
Figure 8-2 (Sheet 1)**

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P/P BUILDUP FIGURE 8-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-2		<b>IDGS OIL SYSTEM PLUMBING INSTALLATION (FIGURE 8-2, SHEET 1)</b>		
		<b>NOTE:</b> IF FLUSHING IS DESIRED, REFER TO THE IDG COOLING SYSTEM FLUSHING PROCEDURE.		
		INSTALL UNION (5) AND O-RING (10) IN PORT ON IDG FUEL/OIL COOLER.		
1	BACS18AF4	. SPACER (REF STANDARD PRACTICES)		AR
5	MS21902J12	. UNION		1
10	AS3581-912	. PACKING, O-RING		1
		POSITION TUBE ASSY (15) AND HOSE ASSY (20) BETWEEN UNION (5) AND IDG. DO NOT CONNECT HOSE ASSY (20) TO IDG UNTIL FLUSHING PROCEDURE HAS BEEN COMPLETED. SECURE TUBE ASSY (15) WITH ITEMS (25 THRU 40).		
15	332T4230-8	. TUBE ASSY		1
15	332T4230-3	. TUBE ASSY (REPLACED BY 332T4230-8)	LTD	-
20	AS1634B12H0104	. HOSE ASSY		1
25	TA027016-12	. CLAMP (V84971) <sup>[1]</sup>	VEN	5
25	BACC10HS12	. CLAMP (REPLACED BY TA027016-12) <sup>[1]</sup>	LTD	-
30	BACS12HN3U7	. SCREW <sup>[1]</sup>		5
35	NAS1149C0332R	. WASHER <sup>[1]</sup>		5
40	BACN10YR3C	. NUT <sup>[1]</sup>		5
		*[1] QTY 4 REQD ON EARLIER CONFIGURATION		

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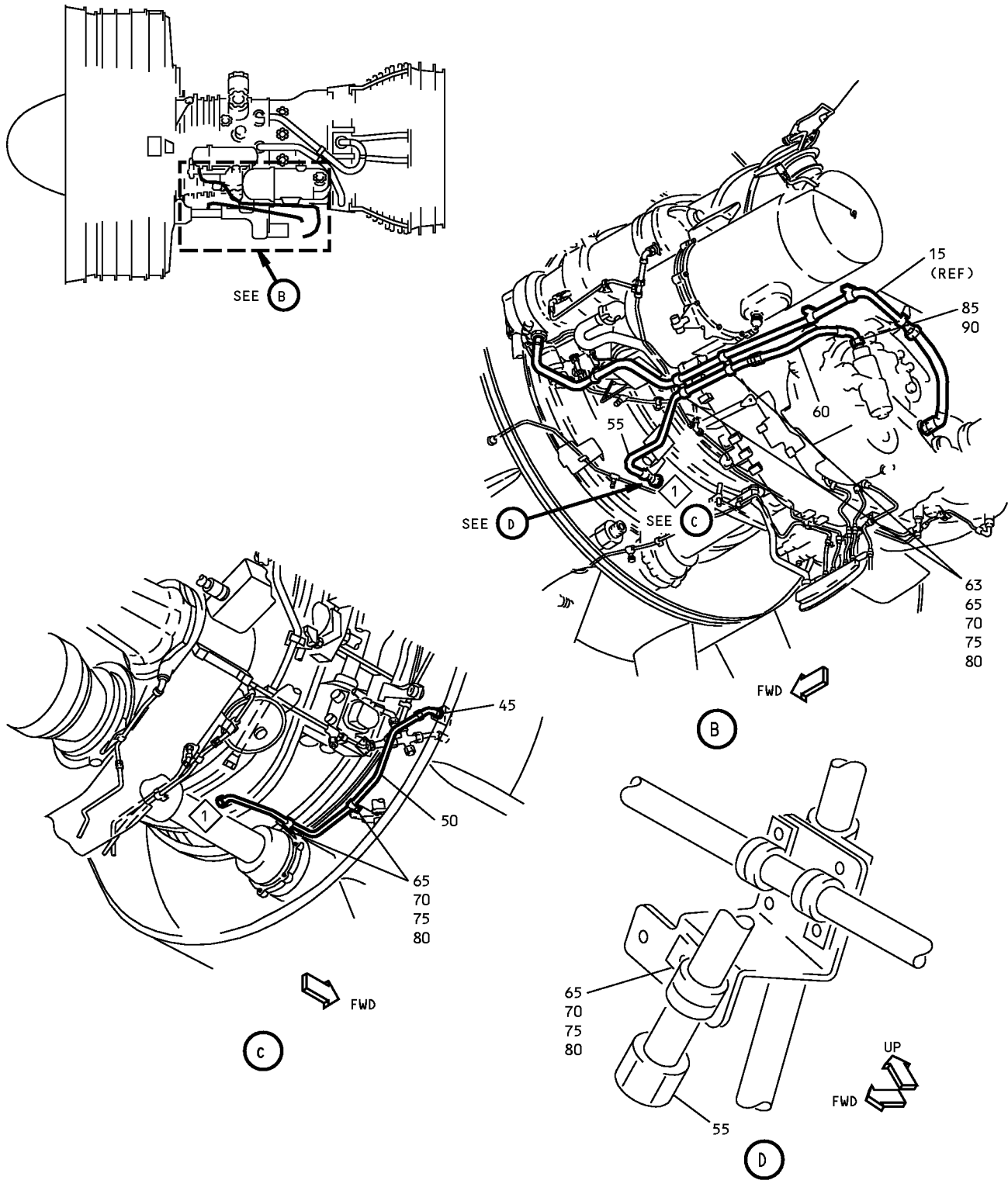
P/P BUILDUP FIGURE 8-2

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**IDGS Oil System Plumbing Installation  
Figure 8-2 (Sheet 2)**

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P/P BUILDUP FIGURE 8-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-2		<b>IDGS OIL SYSTEM PLUMBING INSTALLATION (FIGURE 8-2, SHEET 2)</b>		
		ATTACH ELBOW (45) TO AIR-OIL COOLING VALVE LOCATED ON RIGHT SIDE OF ENGINE. POSITION TUBE ASSYS (50, 55) AND HOSE (60) BETWEEN ELBOW (45) AND IDG. DO NOT CONNECT HOSE (60) TO IDG UNTIL FLUSHING PROCEDURE HAS BEEN COMPLETED. SECURE TUBE ASSYS (15, 50, 55) WITH ITEMS (63 THRU 80).		
45	BACE21BR1010JN	. ELBOW		1
50	332T4230-7	. TUBE ASSY		1
55	332T4230-9	. TUBE ASSY		1
55	332T4230-6	. TUBE ASSY (REPLACED BY 332T4230-9)	LTD	-
60	AS1635B10H0144	. HOSE ASSY		1
63	TA027016-12	. CLAMP (V84971)	VEN	2
63	BACC10HS12	. CLAMP (REPLACED BY TA027016-12)	LTD	-
65	TA027016-10	. CLAMP (V84971)	VEN	5
65	BACC10HS10	. CLAMP (REPLACED BY TA027016-10)	LTD	-
70	BACS12HN3U7	. SCREW		5
75	NAS1149C0332R	. WASHER		5
80	BACN10YR3C	. NUT		5
		INSTALL UNION (85) AND O-RING (90) IN IDG OIL OUT PORT.		
85	MS21902J10	. UNION		1
90	AS3581-910	. PACKING, O-RING		1

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P/P BUILDUP FIGURE 8-2

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**IDGS Oil System Plumbing Installation  
Figure 8-2 (Sheet 3)**

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P/P BUILDUP FIGURE 8-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-2		<p><b>IDGS OIL SYSTEM PLUMBING INSTALLATION (FIGURE 8-2, SHEET 3)</b></p> <p>FLUSH IDG OIL SYSTEM PER IDG COOLING SYSTEM FLUSHING PROCEDURE.</p> <p><u>IDG COOLING SYSTEM FLUSHING PROCEDURE PREFERRED METHOD:</u></p> <p>FLUSH COMPONENTS OF THE IDG COOLING SYSTEM INDIVIDUALLY BEFORE CONNECTING TO IDG PORTS.</p> <p><u>OPTIONAL METHOD:</u></p> <p>THE FOLLOWING PROCEDURE PROVIDES FOR FLUSHING THE IDG COOLING SYSTEM COMPONENTS ON THE ENGINE.</p> <p>ATTACH THE EXTERNAL COOLING CIRCUIT TO IDG flush cart, SPL-7908 (T1) OR SIMILAR SOURCE THAT HAS A FLOW CAPACITY OF 17 GPM (MINIMUM) UP TO A PRESSURE OF 250 PSI. THE ENTIRE FLUID FLOW SHALL PASS THROUGH A 40 MICRON PATCH FILTER LOCATED, FOR VISUAL INSPECTION PURPOSES, IMMEDIATELY DOWNSTREAM OF EXTERNAL COOLING SYSTEM. FLUSHING MAY BE PERFORMED IN FORWARD OR REVERSE DIRECTIONS.</p> <p><b>NOTE:</b> DO NOT CONNECT FLUSHING CART TO IDG.</p> <p>FLUSH COOLING SYSTEM USING solvent, B00074 (C1), SOLVENT PARTICLE CLEANLINESS SHALL BE PER NAS1638 CLASS 9. FLUSH EXTERNAL COOLING CIRCUIT FOR 15 MINUTES. CHECK 40 MICRON PATCH FILTER FOR METALLIC PARTICLES VISIBLE WITHOUT MAGNIFICATION. LIGHT DISCOLORATION OF PATCH IS PERMISSIBLE. DRAW A 100 ML SOLVENT SAMPLE FROM EXTERNAL COOLING CIRCUIT AND CHECK FOR CONTAMINATION USING CRITERIA LIMITS OF NAS1638 TABLE I CLASS 12 (PARTICLE COUNT) OR NAS1638 TABLE II CLASS 107 (2MG/100 ML). IF CRITERIA IS EXCEEDED REPEAT FLUSHING PROCEDURE.</p> <p><b>NOTE:</b> DRY AT LOW PRESSURE ONLY. 250 PSI MAXIMUM.</p> <p>DRY COOLING SYSTEM WITH DRY AIR OR NITROGEN. CONNECT HOSES (20, 60) TO OIL PORTS ON IDG.</p> <p>. IDG FLUSHING CART, SPL-7908</p> <p>. SOLVENT</p>		
T1	83707		TOL	-
C1	B00074		CON	AR

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P/P BUILDUP FIGURE 8-2

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FIGURE 8-3

# STARTER INSTALLATION

REF QEC TASK NO.: 8

REF DWG: 332T4310

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

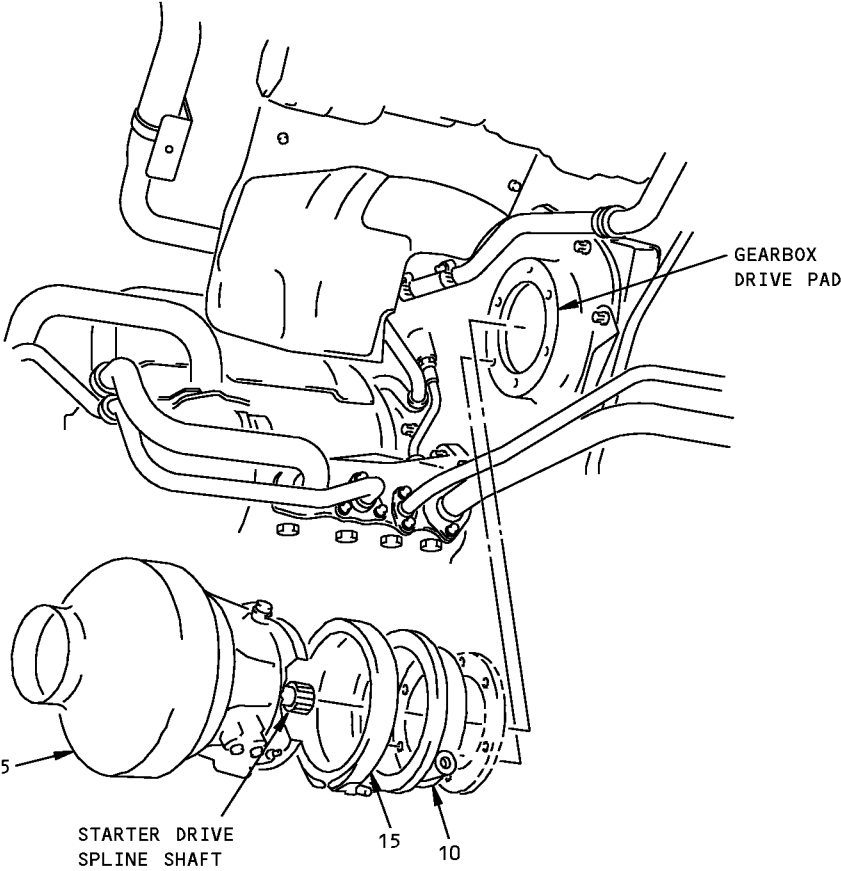
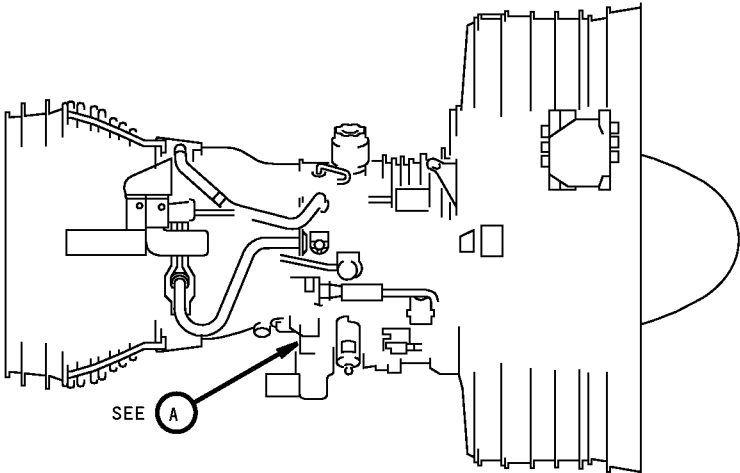
**71-00-02**

P/P BUILDUP FIGURE 8-3

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POWERPLANT BUILDUP MANUAL



A

Starter Installation  
Figure 8-3 (Sheet 1)

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-3		<b>STARTER INSTALLATION (FIGURE 8-3, SHEET 1)</b>		
		REMOVE STARTER (5) FROM QAD ADAPTER (10) BY REMOVING CLAMP (15).		
5	3505436-7	. STARTER (V59364) (BOEING S332T001-17)	VEN	-
5	3505436-6-1	. STARTER (V59364) (BOEING S332T001-17)	VEN	-
5	S332T001-17	. STARTER		1
5	3505436-6-1	. STARTER (V59364) (BOEING S332T001-14)	VEN	-
5	S332T001-14	. STARTER (REPLACED BY S332T001-17)	LTD	-
10	3500080-3	. QAD ADAPTER (V59364) (BOEING S332T001-11)	VEN	-
10	S332T001-11	. QAD ADAPTER		1
15	3501628-1	. . CLAMP (V59364)	REF	-

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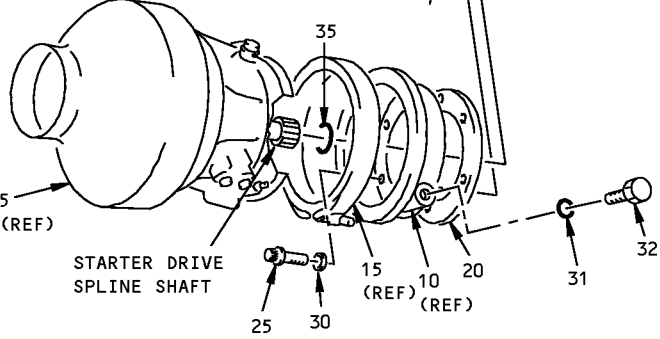
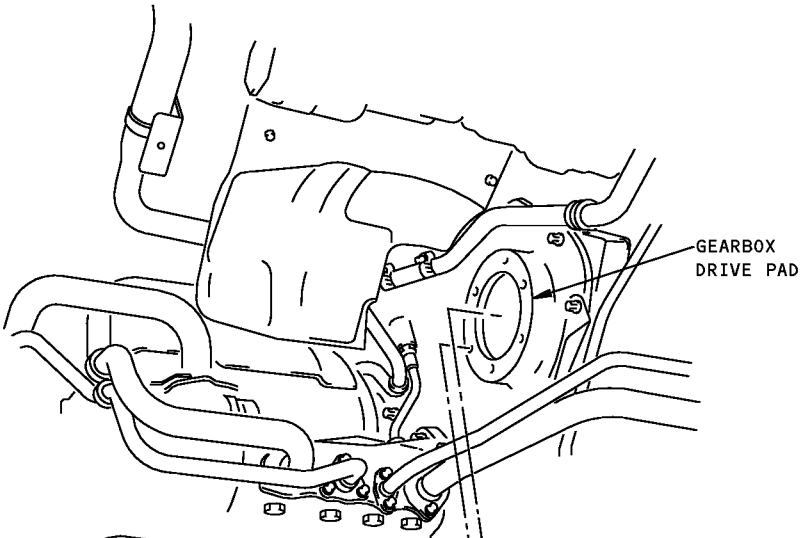
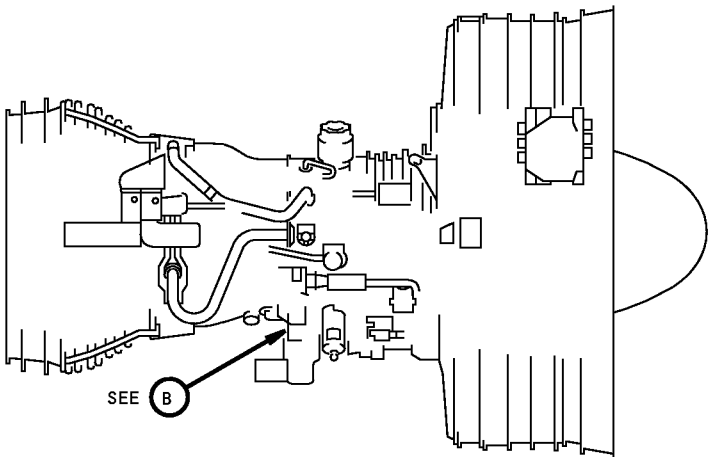
P/P BUILDUP FIGURE 8-3

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POWERPLANT BUILDUP MANUAL**



B

**Starter Installation  
Figure 8-3 (Sheet 2)**

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P/P BUILDUP FIGURE 8-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-3		<b>STARTER INSTALLATION (FIGURE 8-3, SHEET 2)</b>		
		LUBRICATE THREADS OF BOLTS (25) WITH compound, D50004 (C1). APPLY A COATING OF silicone compound, D00254 (C2) TO MATING SURFACES OF GEARBOX AND QAD ADAPTER.		
		INSTALL GASKET (20) AND QAD ADAPTER (10) ON GEARBOX USING BOLTS (25) AND WASHERS (30). TIGHTEN BOLTS (25) 260 TO 320 LB-IN. REPLACE CLAMP (15) ON QAD ADAPTER (10).		
20	332T3323-2	. GASKET		1
20	332T3323-1	. GASKET (REPLACED BY 332T3323-2)	LTD	-
25	PBF1629	. BOLT (V27624)	VEN	6
25	BACB30LM6U6	. BOLT (REPLACED BY PBF1629)	LTD	-
30	BACW10BP6ACU	. WASHER		6
C1	D50004	. COMPOUND	CON	AR
C2	D00254	. SILICONE COMPOUND	CON	AR
		INSERT O-RING (31) AND PLUG (32) INTO QAD (10). LOCKWIRE.		
31	AS3581-906	. PACKING, O-RING		1
32	BACP20AU6	. PLUG		1
		LIGHTLY LUBRICATE PACKING (35) AND STARTER SPLINE SHAFT WITH oil, D00109 (C3) OR oil, D00068 (C4). INSTALL PACKING (35) ON STARTER SPLINE SHAFT.		
35	AS3209-216	. PACKING, O-RING		1
C3	D00109	. OIL	CON	AR
C4	D00068	. OIL	CON	AR
		<b>CAUTION:</b> DO NOT LIFT STARTER BY DRIVE SHAFT. DAMAGE CAN OCCUR DUE TO EXCESSIVE LOADS ON DRIVE SHAFT.		
		ALIGN INDEXING PIN ON STARTER (5) WITH SLOT ON QAD ADAPTER (10), SECURE STARTER (5) TO QAD ADAPTER (10) WITH CLAMP (15) AND TIGHTEN CLAMP 65-75 LB-IN.		

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P/P BUILDUP FIGURE 8-3

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FIGURE 8-4

# STARTER VALVE INSTALLATION

REF QEC TASK NO.: 8

REF DWG: 332T4310

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

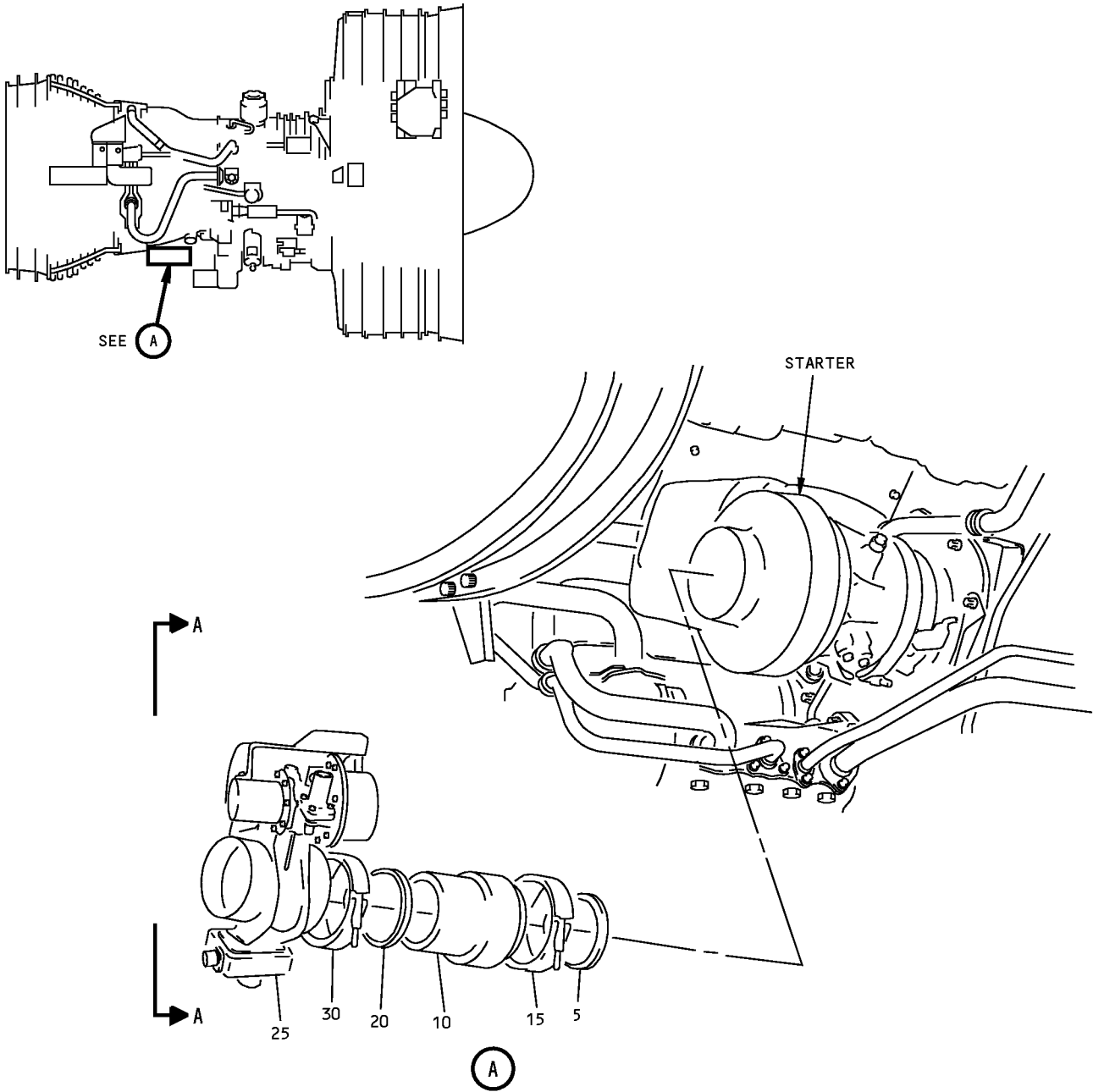
**71-00-02**

P/P BUILDUP FIGURE 8-4

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**POWERPLANT BUILDUP MANUAL**



**Starter Valve Installation**  
**Figure 8-4 (Sheet 1)**



## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-4		<b>STARTER VALVE INSTALLATION (FIGURE 8-4, SHEET 1)</b>		
		POSITION SEAL (5) BETWEEN DUCT ASSY (10) AND STARTER. ALIGN INDEXING KEYS AND SECURE WITH COUPLING (15). TIGHTEN TO 100-115 LB-IN.		
5	AS1895-7-400	. SEAL		1
5	2873-400	. SEAL (V15284) (REPLACED BY AS1895-7-400)	LTD	-
10	14611-14	. DUCT ASSY (V70628) (BOEING S332N303-14)	VEN	-
10	14616-14	. DUCT ASSY (V70628) (BOEING S332N303-14)	VEN	-
10	14611-11	. DUCT ASSY (V70628) (BOEING S332N303-14)	VEN	-
10	S332N303-14	. DUCT ASSY		1
15	2703-400	. COUPLING (V15284)	VEN	1
15	VR1025-400	. COUPLING (V14242)	OPT	-
		POSITION SEAL (20) BETWEEN STARTER VALVE (25) AND DUCT ASSY (10). ALIGN INDEXING KEYS, SECURE WITH COUPLING (30) AND TIGHTEN TO 100-115 LB-IN.		
20	AS1895-7-400	. SEAL		1
20	2873-400	. SEAL (V15284) (REPLACED BY AS1895-7-400)	LTD	-
25	979858-5	. VALVE - STARTER (V59364) (BOEING S332T002-13)	VEN	-
25	S332T002-13	. VALVE - STARTER		1
25	979858-3	. VALVE - STARTER (V59364) (BOEING S332T002-11)	VEN	-
25	S332T002-11	. VALVE - STARTER (OPTIONAL TO S332T002-13)	OPT	-
25	979858-2	. VALVE - STARTER (V59364) (BOEING S332T002-8)	VEN	-
25	S332T002-8	. VALVE - STARTER (OPTIONAL TO S332T002-13)	OPT	-
25	979858-1	. VALVE - STARTER (V59364) (BOEING S332T002-1)	VEN	-
25	S332T002-1	. VALVE - STARTER (OPTIONAL TO S332T002-13)	OPT	-
30	2703-400	. COUPLING (V15284)	VEN	1
30	VR1025-400	. COUPLING (V14242)	OPT	-

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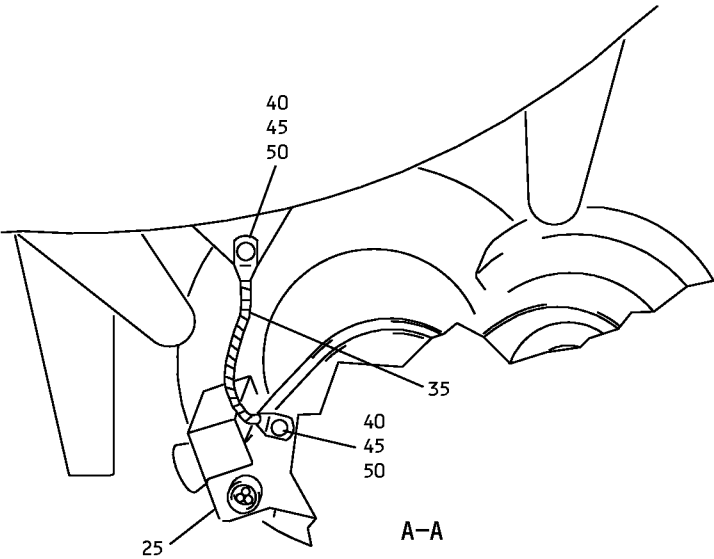
P/P BUILDUP FIGURE 8-4

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POWERPLANT BUILDUP MANUAL**



**Starter Valve Installation  
Figure 8-4 (Sheet 2)**

**71-00-02**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-4		<b>STARTER VALVE INSTALLATION (FIGURE 8-4, SHEET 2)</b>  CLEAN MATING SURFACES OF JUMPER (35), ENGINE BRACKET, AND VALVE (25) WITH solvent, B00148 (C1). CONNECT BONDING JUMPER (35) BETWEEN VALVE (25) AND ENGINE BRACKET USING ITEMS (40 THRU 50). CHECK BONDING RESISTANCE (0.005 OHMS MAX.) BETWEEN VALVE AND JUMPER, AND BETWEEN BRACKET AND JUMPER.		
35	BACJ40AD44-8	. BONDING JUMPER		1
40	BACS12HN3U7	. SCREW		2
45	NAS1149C0332R	. WASHER		2
50	BACN10YR3C	. NUT		2
C1	B00148	. SOLVENT	CON	AR

**71-00-02**

P/P BUILDUP FIGURE 8-4

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FIGURE 8-5

# STARTER DUCT INSTALLATION

REF QEC TASK NO.: 8

REF DWG: 332T4310

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

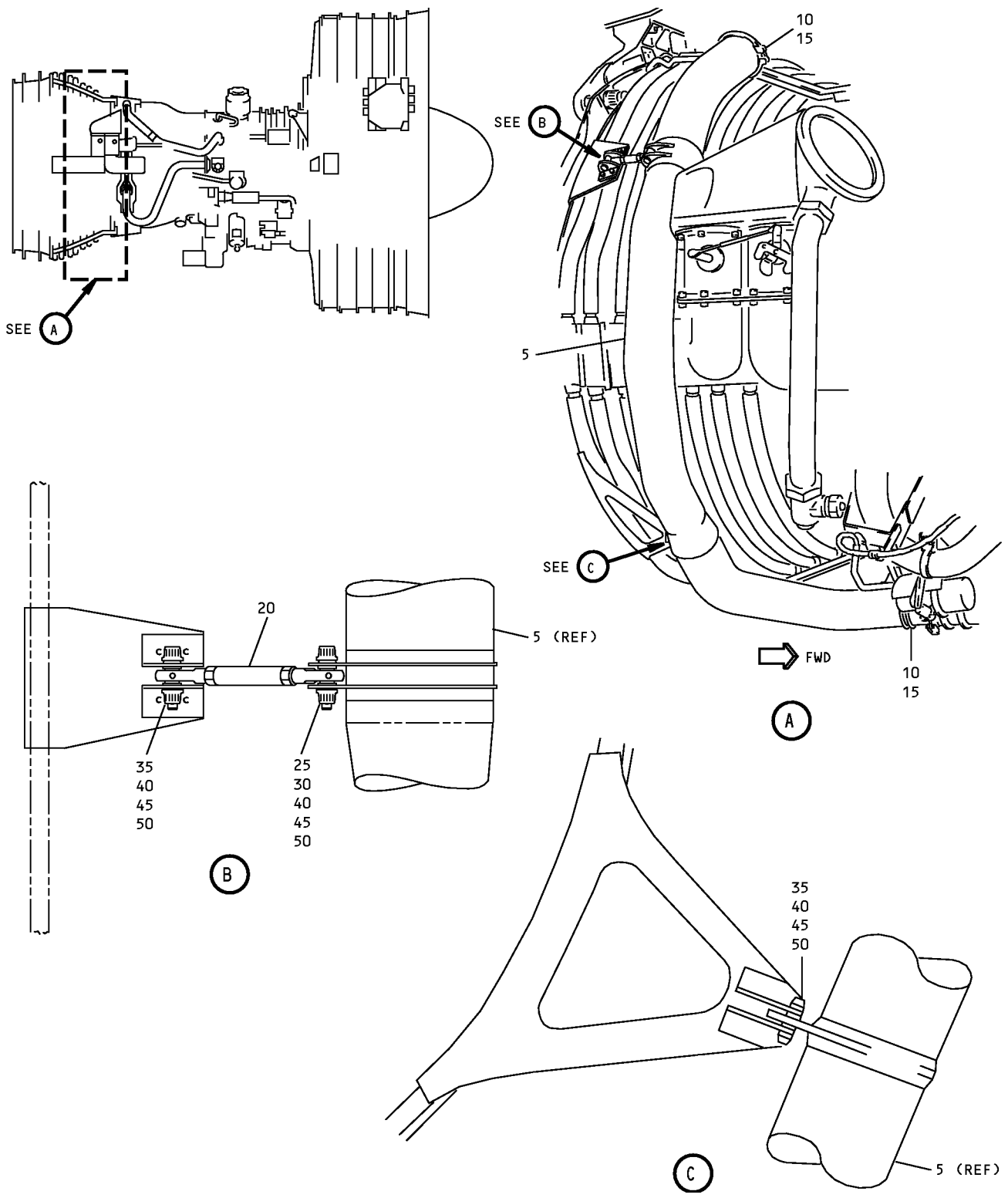
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P/P BUILDUP FIGURE 8-5

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**POWERPLANT BUILDUP MANUAL**



**Starter Duct Installation  
Figure 8-5 (Sheet 1)**

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P/P BUILDUP FIGURE 8-5

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-5		<b>STARTER DUCT INSTALLATION (FIGURE 8-5, SHEET 1)</b>		
		ATTACH LOWER END OF DUCT ASSY (5) TO STARTER VALVE WITH SEAL (10) AND COUPLING (15). TEMPORARILY ATTACH UPPER END DUCT ASSY (5) TO ALIGNMENT JIG WITH COUPLING (15). WHEN JIG IS DISCONNECTED FROM ENGINE, PUT SEAL (10) AND COUPLING (15) IN BAG AND ATTACH TO DUCT ASSY (5). TIGHTEN LOWER CLAMP TO 100-115 LB-IN.		
5	332T4313-14	. DUCT ASSY		1
10	AS1895-7-400	. SEAL		2
10	2873-400	. SEAL (V15284) (REPLACED BY AS1895-7-400)	LTD	-
15	2703-400	. COUPLING (V15284)	VEN	2
15	VR1025-400	. COUPLING (V14242)	OPT	-
		ADJUST LINK ASSY (20) TO CENTER-TO-CENTER DIMENSION OF 4.20 INCHES. ATTACH DUCT ASSY (5) TO BRACKETS ON -P- FLANGE USING LINK ASSY (20) AND FASTENERS (25 THRU 50).		
20	312T2359-30	. LINK ASSY		1
25	BACB30PN4-13	. BOLT		1
30	BACB28AK04-030	. BUSHING		1
35	BACB30PN4-10	. BOLT		2
40	BACW10BP4ACU	. WASHER (POSITION COUNTERSINK TOWARDS BOLT HEAD)		3
45	NAS1149C0463R	. WASHER		3
50	BACN11Z4C	. NUT		3
50	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)	OPT	-

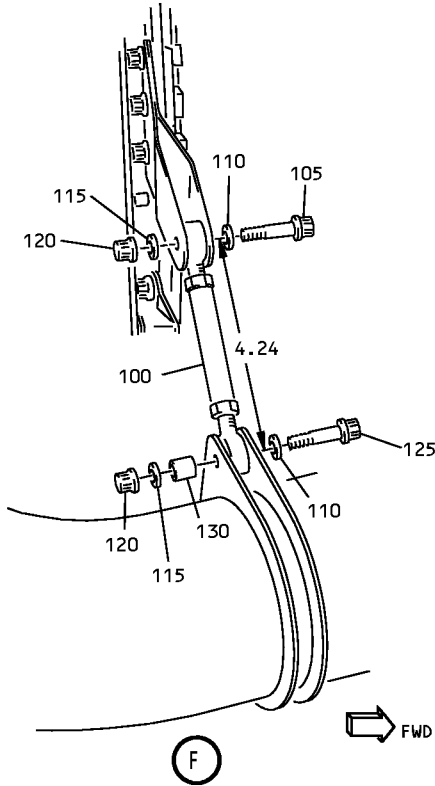
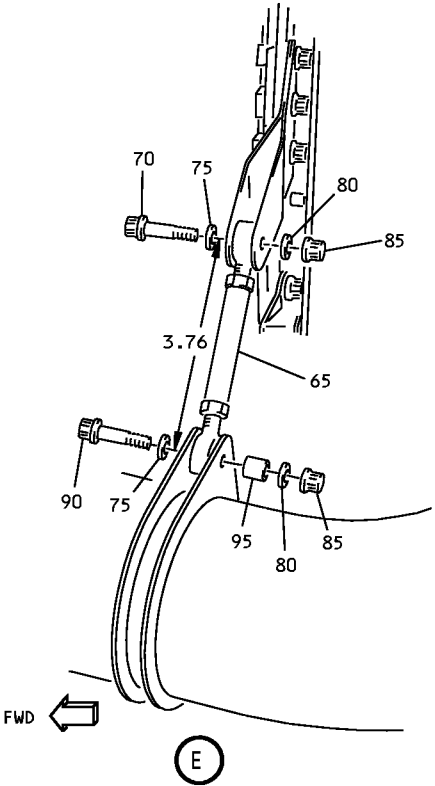
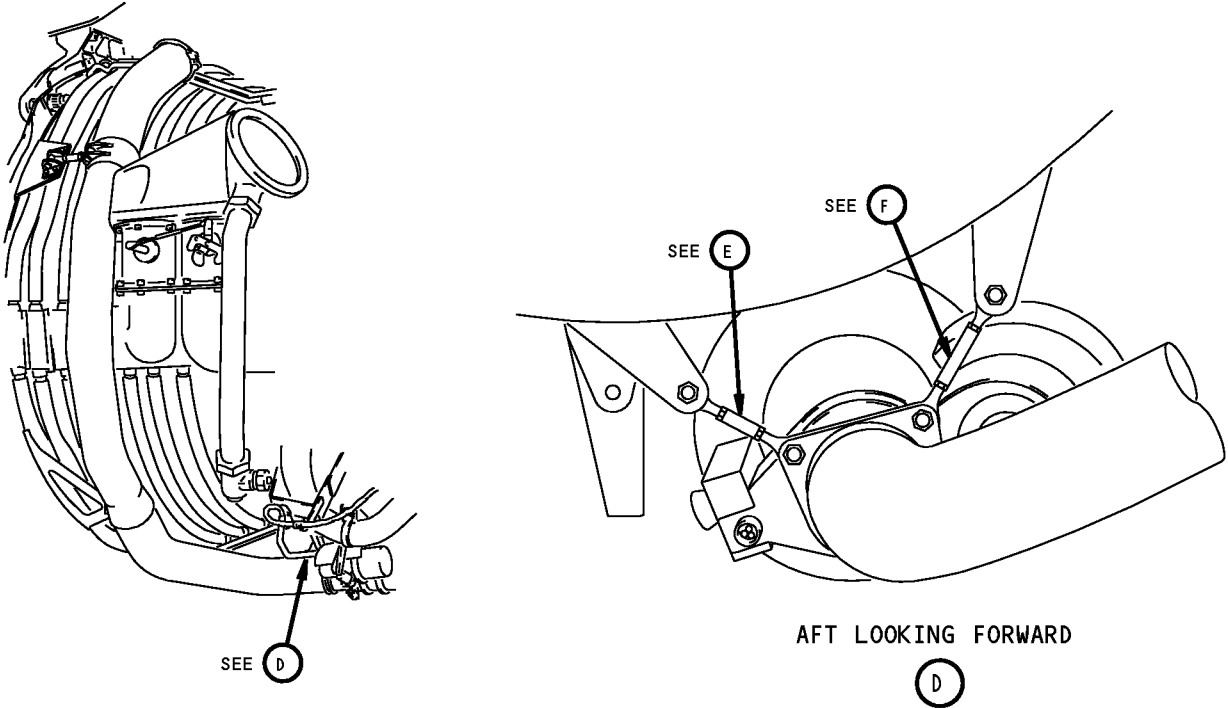
**71-00-02**

P/P BUILDUP FIGURE 8-5

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Starter Duct Installation  
Figure 8-5 (Sheet 2)

**71-00-02**

P/P BUILDUP FIGURE 8-5

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
8-5		<b>STARTER DUCT INSTALLATION (FIGURE 8-5, SHEET 2)</b>		
		ADJUST ROD ASSY (65) TO CENTER-TO-CENTER DIMENSION OF 3.76 INCHES. ATTACH ROD ASSY TO ENGINE BRACKET AND STARTER DUCT (5) WITH ITEMS (70 THRU 95). LOCKWIRE.		
65	312T2359-23	. SUPPORT ROD ASSY		1
70	BACB30PN4-10	. BOLT		1
75	BACW10BP4ACU	. WASHER (POSITION COUNTERSINK TOWARDS BOLT HEAD)		2
80	NAS1149C0463R	. WASHER		2
85	BACN11Z4C	. NUT		2
85	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)	OPT	-
90	BACB30PN4-13	. BOLT		1
95	BACB28AK04-030	. BUSHING		1
		ADJUST ROD ASSY (100) TO CENTER-TO-CENTER DIMENSION OF 4.24 INCHES. ATTACH ROD ASSY TO ENGINE BRACKET AND TO STARTER DUCT (5) WITH ITEMS (105 THRU 130). LOCKWIRE.		
100	312T2359-25	. SUPPORT ROD ASSY		1
105	BACB30PN4-10	. BOLT		1
110	BACW10BP4ACU	. WASHER (POSITION COUNTERSINK TOWARDS BOLT HEAD)		2
115	NAS1149C0463R	. WASHER		2
120	BACN11Z4C	. NUT		2
120	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)	OPT	-
125	BACB30PN4-13	. BOLT		1
130	BACB28AK04-030	. BUSHING		1

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P/P BUILDUP FIGURE 8-5

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FIGURE 9-1

# HYDRAULIC PUMP INSTALLATION

REF QEC TASK NO.: 9

REF DWG: 332T4120

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

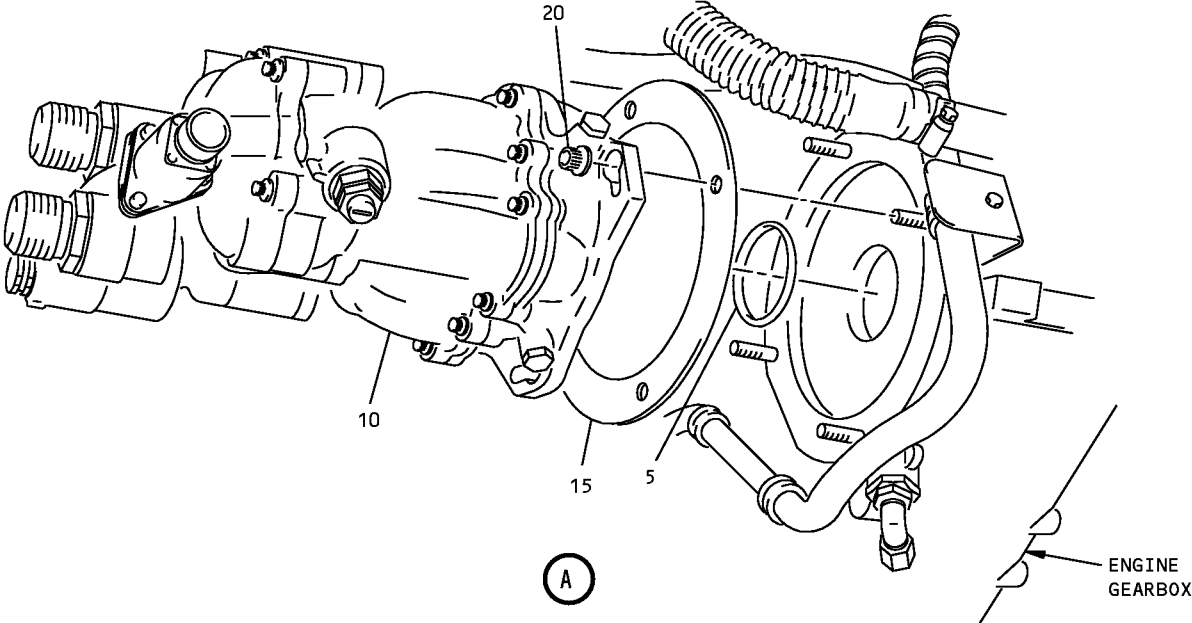
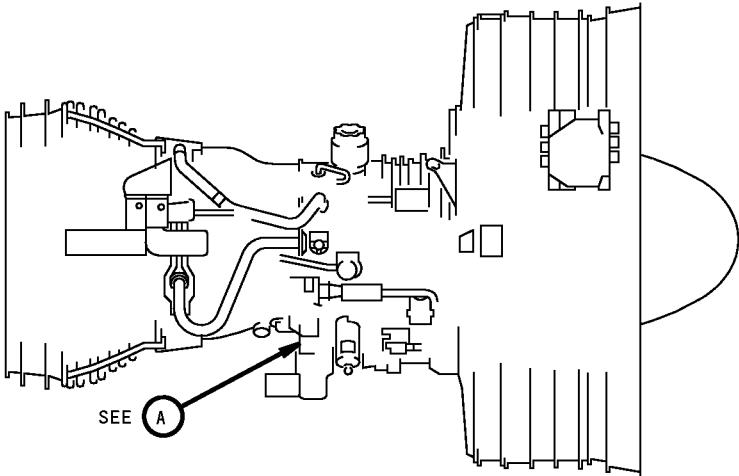
**71-00-02**

P/P BUILDUP FIGURE 9-1

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POWERPLANT BUILDUP MANUAL**



**Hydraulic Pump Installation  
Figure 9-1 (Sheet 1)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
9-1		<p><b>HYDRAULIC PUMP INSTALLATION</b> (FIGURE 9-1, SHEET 1)</p> <p><b>CAUTION:</b> PACKING MUST BE INSTALLED ON PUMP DRIVE SPLINE TO PREVENT LOSS OF ENGINE OIL. DO NOT GREASE PUMP DRIVE SHAFT. SPLINE IS LUBRICATED BY ENGINE OIL.</p> <p>LUBRICATE PACKING (5) WITH oil, D00109 (C1) AND INSTALL ON DRIVE SPLINE OF HYD PUMP (10). INSTALL GASKET (15) ON GEARBOX, ENGAGING STUDS FOR MOUNTING PUMP. INSTALL PUMP ON ENGINE PAD ALIGNING PUMP SHAFT SPLINES WITH ENGINE SHAFT. POSITION PUMP SO STUDS ARE IN APPROPRIATE SLOT. INSTALL NUTS (20) AND TIGHTEN TO 260-320 LB-IN.</p>		
5	9216-797	. PACKING (V72902)	VEN	1
5	2-216V1041-85	. PACKING (V02697)	OPT	-
10		. HYD PUMP PREASSEMBLYHYDRAULIC PUMP PREASSEMBLY/Figure 1-1	REF	-
15	69B90191-4	. GASKET		1
15	69B90191-2	. GASKET (REPLACED BY 69B90191-4)	LTD	-
15	221-1301-501	. GASKET (V51563)	OPT	-
20	624AG5HD	. NUTS (V83324)	VEN	4
C1	D00109	. OIL	CON	AR

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P/P BUILDUP FIGURE 9-1

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FIGURE 9-2

# INTERFACE DUCT INSTALLATION - COOLING AIR INLET

REF QEC TASK NO.: 9

REF DWG: 332T3261

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

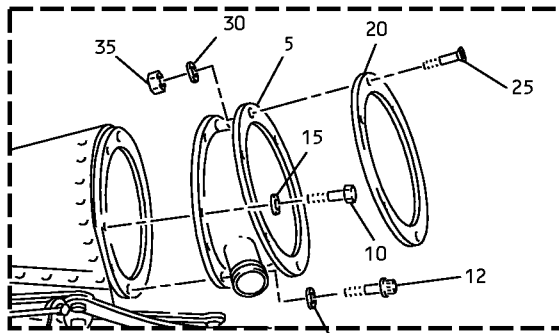
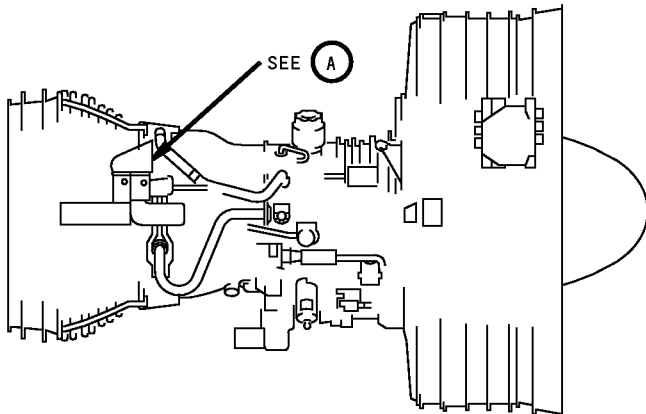
**71-00-02**

P/P BUILDUP FIGURE 9-2

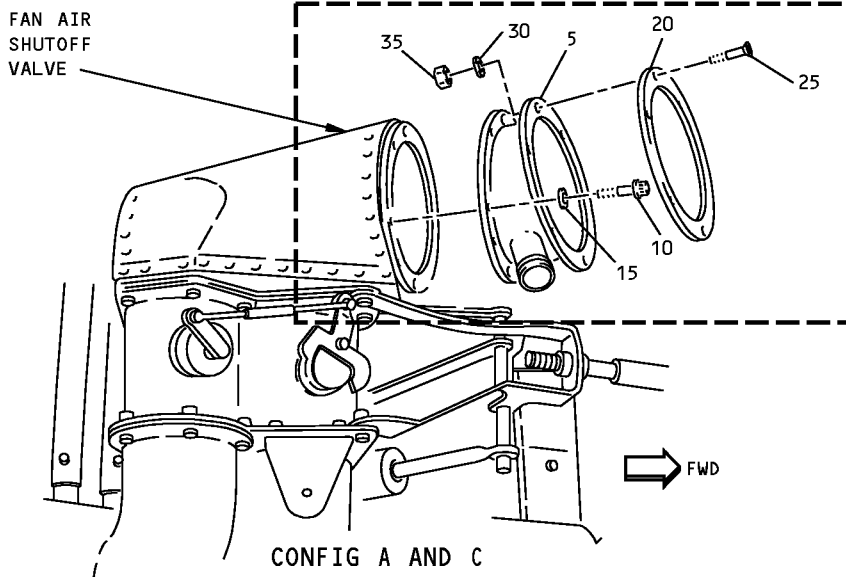
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**POWERPLANT BUILDUP MANUAL**



CONFIG B



A

**Interface Duct Installation - Cooling Air Inlet**  
**Figure 9-2 (Sheet 1)**

**71-00-02**

P/P BUILDUP FIGURE 9-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
9-2		<b>INTERFACE DUCT INSTALLATION - COOLING AIR INLET (FIGURE 9-2, SHEET 1)</b>  POSITION DUCT ASSY (5) TO MTG FLANGE ON ENGINE FAN AIR SHUTOFF VALVE. SECURE WITH ITEMS (10 THRU 17).  <b>NOTE:</b> FOR EASE OF INSTALLATION, TIGHTEN BOLT AT 6:00 POSITION FIRST.		
5	332T3261-13	. DUCT ASSY		1
10	BACB30LE4U2	. BOLT <sup>[C]</sup>		8
10	BACB30LM4U1	. BOLT (7 REQD) <sup>[B]</sup>	LTD	-
10	BACB30LM4U2	. BOLT <sup>[B]</sup>	OPT	-
10	BACB30LM4U1	. BOLT (8 REQD) <sup>[A]</sup>	LTD	-
10	BACB30LM4U2	. BOLT <sup>[A]</sup>	OPT	-
12	BACB30LE4HU2	. BOLT (1 REQD) <sup>[B]</sup>	LTD	-
15	BACW10BP4ACU	. WASHER <sup>[C]</sup>		8
15	NAS1149C0432R	. WASHER (7 REQD) <sup>[B]</sup>	LTD	-
15	NAS1149C0432R	. WASHER (8 REQD) <sup>[A]</sup>	LTD	-
17	NAS1149C0432R	. WASHER (1 REQD) <sup>[B]</sup>	LTD	-
		INSTALL WEAR PLATE (20) ON DUCT ASSY (5) USING ITEMS (25 THRU 35).		
20	332T3261-5	. WEAR PLATE		1
25	BACB30ZE3U2	. BOLT		6
30	NAS1149C0332R	. WASHER		6
35	BACN10YR3C	. NUT		6
		*[C] PREFERRED CONFIG		
		*[B] ALTERNATE CONFIG		
		*[A] ORIGINAL CONFIG		

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P/P BUILDUP FIGURE 9-2

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**FIGURE 9-3**

# **ACCESSORY COOLING INSTALLATION**

**REF QEC TASK NO.: 9**

**REF DWG: 332T4470  
332T4150**

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

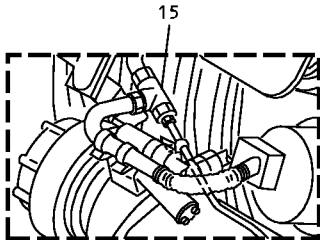
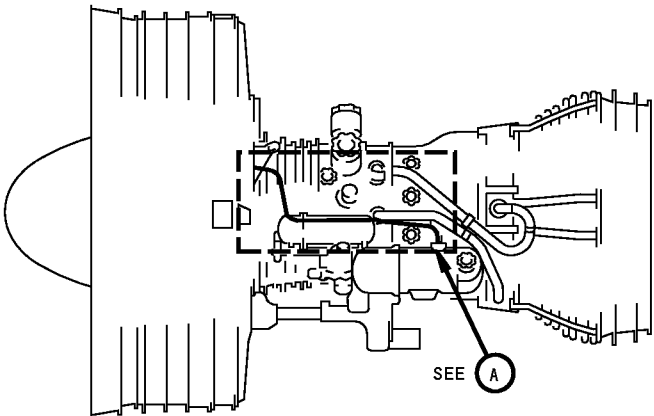
**71-00-02**

P/P BUILDUP FIGURE 9-3

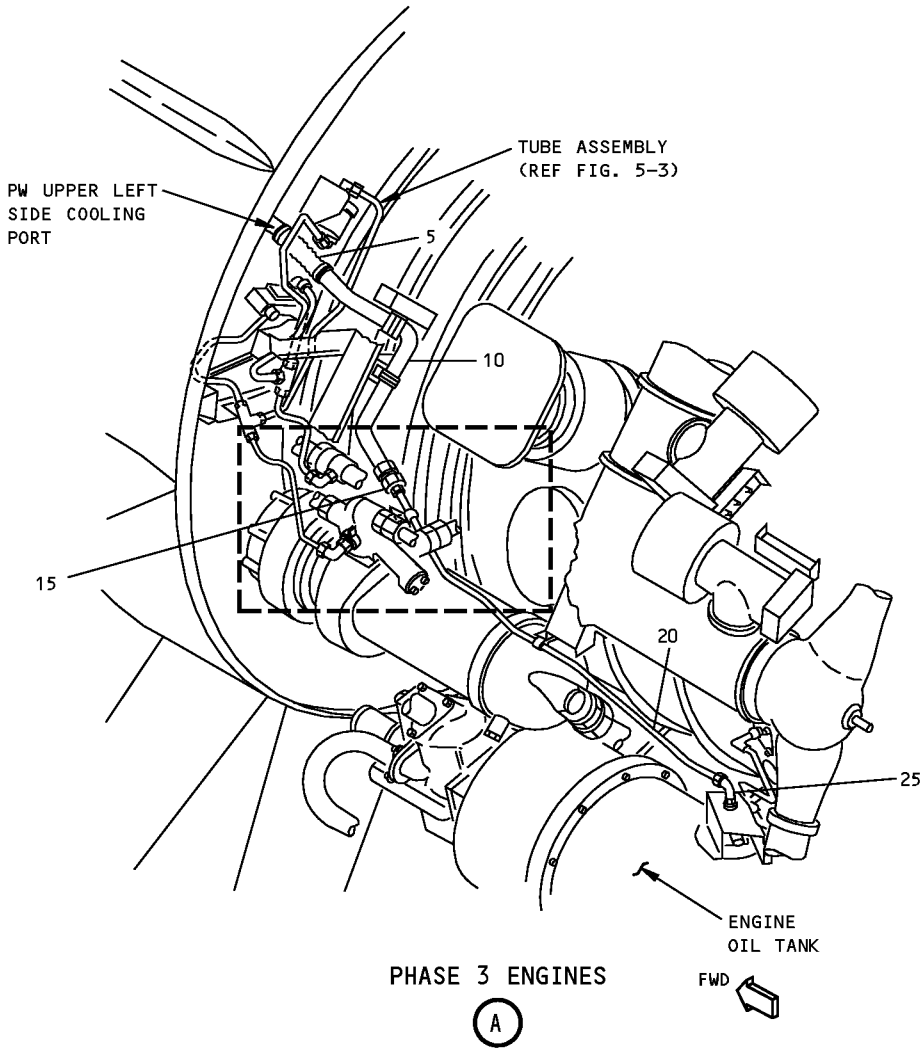
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**POWERPLANT BUILDUP MANUAL**



ALL EXCEPT PHASE 3 ENGINES



**Accessory Cooling Installation**  
**Figure 9-3 (Sheet 1)**

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P/P BUILDUP FIGURE 9-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
9-3		<p><b>ACCESSORY COOLING INSTALLATION</b> <b>(FIGURE 9-3, SHEET 1)</b></p> <p><u>ON PHASE 3 ENGINES</u></p> <p>POSITION HOSE (5), TUBE ASSYS (10, 20), REDUCER (15), AND ELBOW (25) BETWEEN PW UPPER LEFT SIDE COOLING PORT AND ENGINE OIL TANK. MAINTAIN MAXIMUM POSSIBLE CLEARANCE BETWEEN TUBE ASSY (10) AND TUBE ASSY (REF: OIL PRESSURE TRANSMITTER AND LOW OIL PRESSURE SWITCH INSTALLATION/Figure 5-3 ).</p>		
1	BACS18AF3	. SPACER (REF STANDARD PRACTICES)		AR
5	AS1503-04D0050	. HOSE		1
10	332T4470-11	. TUBE ASSY		1
15	BACR17H16-6	. REDUCER		1
20	332T4470-30	. TUBE ASSY		1
25	BACE21BT0606JN	. ELBOW		1
		<u>ALL EXCEPT PHASE 3 ENGINES</u>		
		POSITION HOSE (5), TUBE ASSYS (10, 20), TEE (15), AND ELBOW (25) BETWEEN PW UPPER LEFT SIDE COOLING PORT AND ENGINE OIL TANK. MAINTAIN MAXIMUM POSSIBLE CLEARANCE BETWEEN TUBE ASSY (10) AND TUBE ASSY (REF: OIL PRESSURE TRANSMITTER AND LOW OIL PRESSURE SWITCH INSTALLATION/Figure 5-3 ).		
1	BACS18AF3	. SPACER (REF STANDARD PRACTICES)	LTD	-
5	AS1503-04D0050	. HOSE (1 REQD)	LTD	-
10	332T4470-11	. TUBE ASSY (1 REQD)	LTD	-
15	BACT16AS160612W	. TEE (1 REQD)	LTD	-
20	332T4470-12	. TUBE ASSY (1 REQD)	LTD	-
25	BACE21BT0606JN	. ELBOW (1 REQD)	LTD	-
25	BACE21BT0606J	. ELBOW (REPLACED BY BACE21BT0606JN)	LTD	-
25	BACE21AW0606M	. ELBOW (REPLACED BY BACE21BT0606J)	LTD	-

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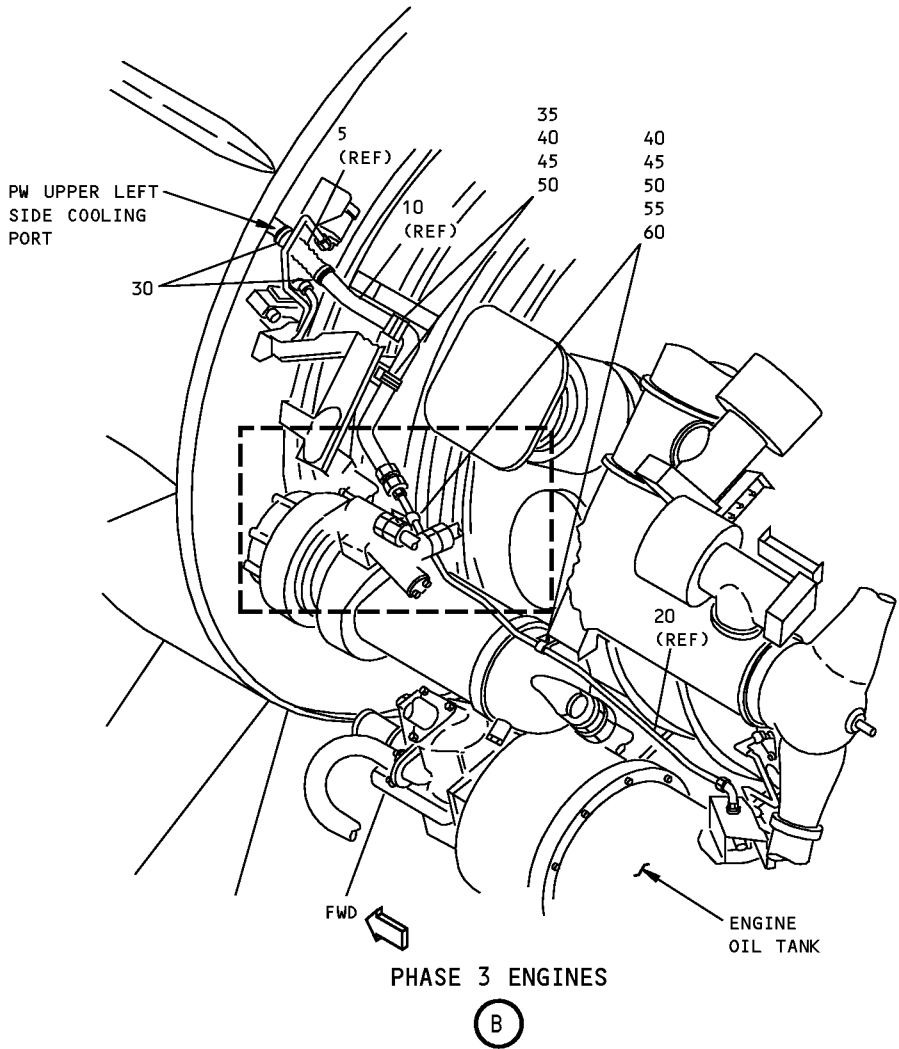
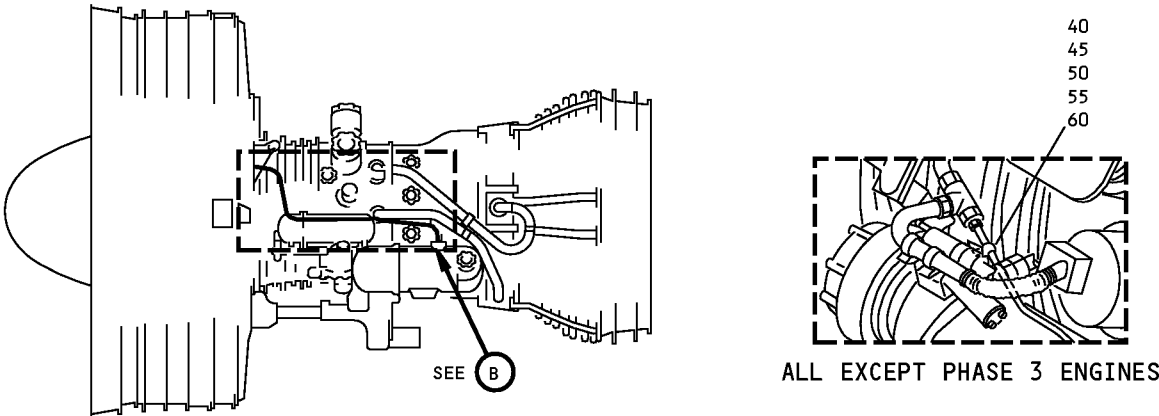
P/P BUILDUP FIGURE 9-3

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POWERPLANT BUILDUP MANUAL**



**Accessory Cooling Installation  
Figure 9-3 (Sheet 2)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
9-3		<b>ACCESSORY COOLING INSTALLATION (FIGURE 9-3, SHEET 2)</b>		
		SECURE HOSE (5) WITH CLAMPS (30), TUBE ASSY (10) WITH ITEMS (35 THRU 50) AND TUBE ASSY (20) WITH ITEMS (40 THRU 60).		
30	BACC10JB022C040	. CLAMP		2
35	TA027016-16	. CLAMP (V84971)	VEN	2
35	BACC10HS16	. CLAMP (REPLACED BY TA027016-16)	LTD	-
40	BACS12HN3U8	. SCREW		4
45	NAS1149C0332R	. WASHER		4
50	BACN10YR3C	. NUT		4
55	TA027016-06	. CLAMP (V84971)	VEN	2
55	BACC10HS06	. CLAMP (REPLACED BY TA027016-06)	LTD	-
60	BACC10GT2-06	. CLAMPSHELLS		4

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P/P BUILDUP FIGURE 9-3

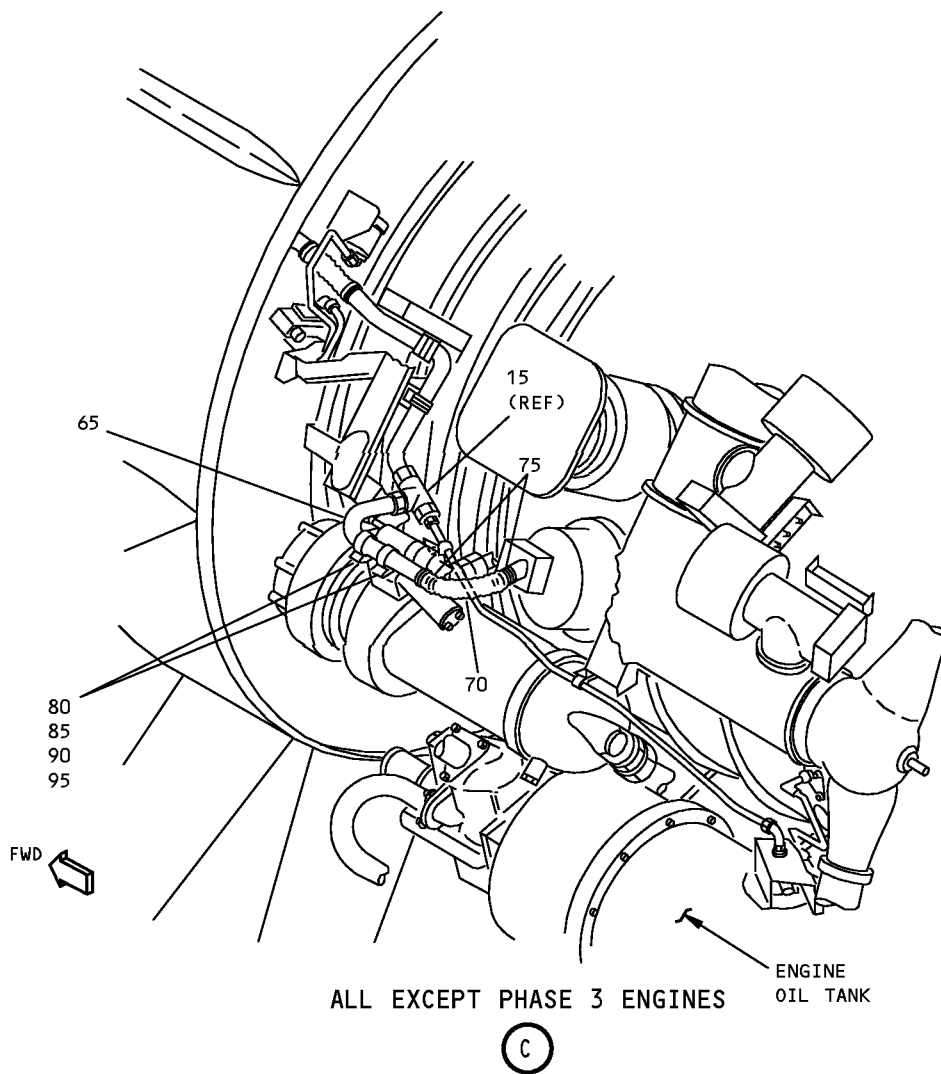
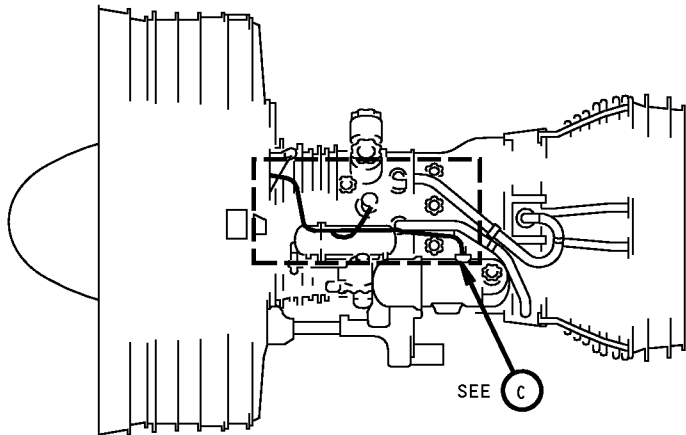
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**Accessory Cooling Installation  
Figure 9-3 (Sheet 3)**

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P/P BUILDUP FIGURE 9-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
9-3		<b>ACCESSORY COOLING INSTALLATION (FIGURE 9-3, SHEET 3)</b>  <u>ALL EXCEPT PHASE 3 ENGINES</u>  POSITION TUBE ASSY (65) AND HOSE (70) BETWEEN TEE (15) AND PW TRC VALVE. SECURE HOSE (70) WITH CLAMPS (75) AND TUBE ASSY (65) WITH ITEMS (80 THRU 95).		
65	332T4470-15	. TUBE ASSY		1
70	AS1503-03D0072	. HOSE		1
75	BACC10JB022C040	. CLAMP		2
80	TA027016-12	. CLAMP		2
80	BACC10HS12	. CLAMP (REPLACED BY TA027016-12)	LTD	-
85	BACS12HN3U8	. SCREW		2
90	NAS1149C0332R	. WASHER		2
95	BACN10YR3C	. NUT		2

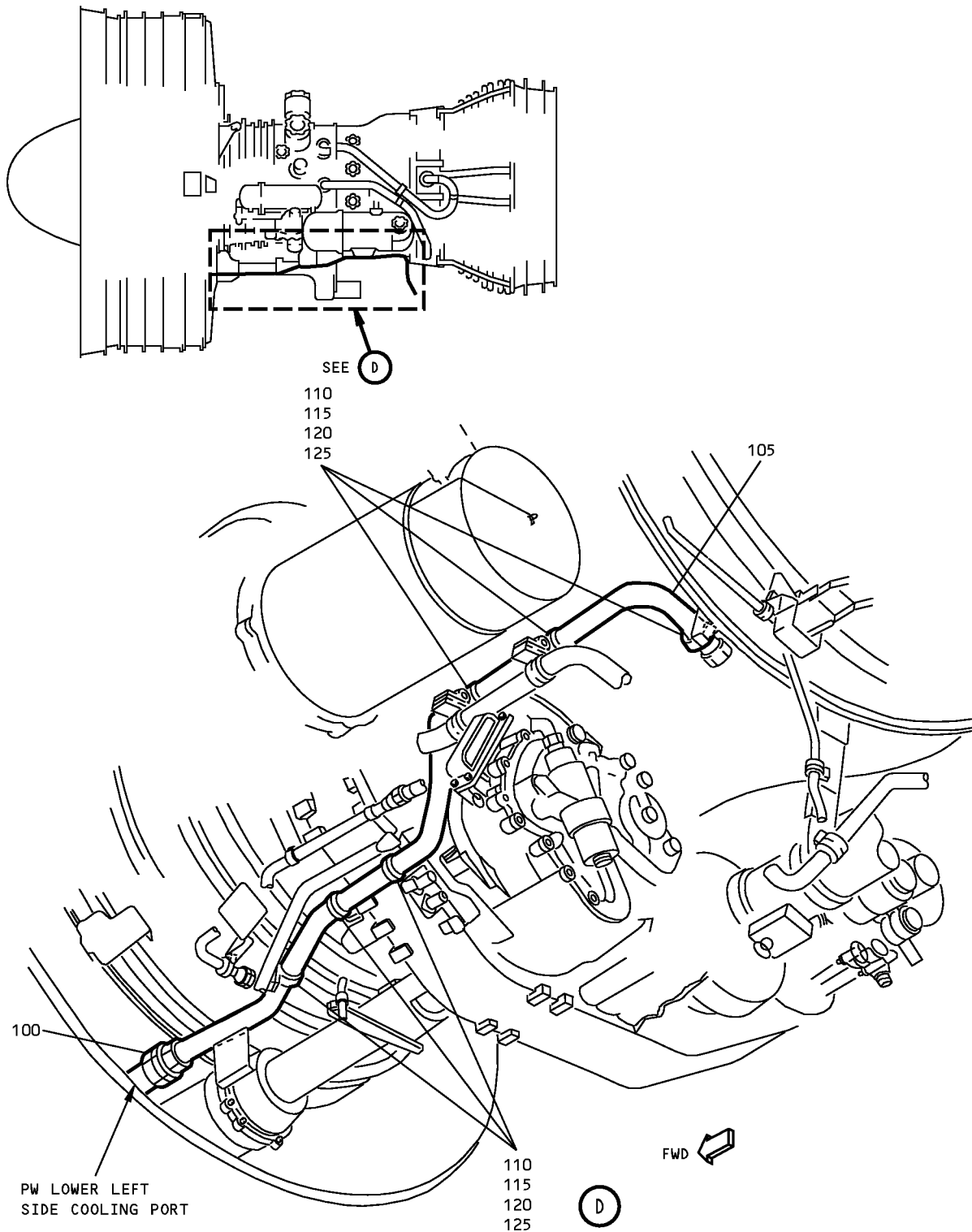
**71-00-02**

P/P BUILDUP FIGURE 9-3

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**POWERPLANT BUILDUP MANUAL**



**Accessory Cooling Installation  
Figure 9-3 (Sheet 4)**

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P/P BUILDUP FIGURE 9-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
9-3		<b>ACCESSORY COOLING INSTALLATION (FIGURE 9-3, SHEET 4)</b>		
		INSTALL UNION (100) INTO PW LOWER LEFT SIDE COOLING PORT. POSITION TUBE (105) AND SECURE WITH ITEMS (110 THRU 125).		
100	MS21902J20	. UNION <sup>*[2]</sup>		1
100	MS21916J20-16	. REDUCER (REPLACED BY MS21902J20) (1 REQD) <sup>*[1]</sup>	LTD	-
105	332T3403-78	. TUBE ASSY <sup>*[2]</sup>		1
105	332T3403-70	. TUBE ASSY (REPLACED BY 332T3403-78) (1 REQD) <sup>*[2]</sup>	LTD	-
105	332T3403-43	. TUBE ASSY (REPLACED BY 332T3403-61) (1 REQD) <sup>*[1]</sup>	LTD	-
110	TA027016-20	. CLAMP <sup>*[2]</sup>		6
110	BACC10HT20	. CLAMP (REPLACED BY TA027016-20) (6 REQD) <sup>*[2]</sup>	LTD	-
110	TA027016-16	. CLAMP <sup>*[1]</sup>		6
110	BACC10HS16	. CLAMP (REPLACED BY TA027016-16) (3 REQD) <sup>*[1]</sup>	LTD	-
115	BACS12HN3U8	. SCREW		6
120	NAS1149C0332R	. WASHER		6
125	BACN10YR3C	. NUT		6
		*[1] PMA WITH 1 COOLING PORT		
		*[2] PMA WITH 2 COOLING PORTS		

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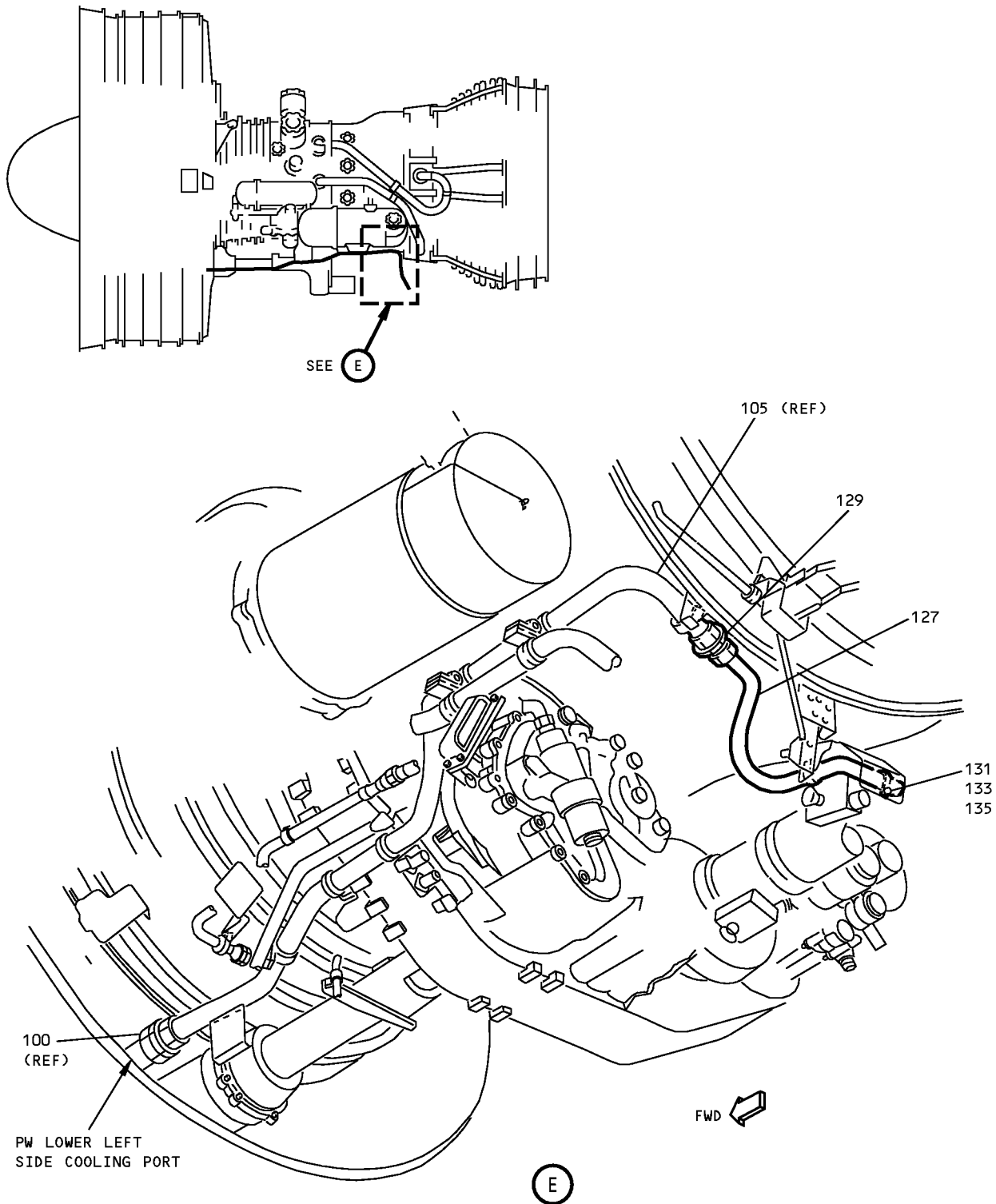
P/P BUILDUP FIGURE 9-3

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**Accessory Cooling Installation**  
**Figure 9-3 (Sheet 5)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
9-3		<b>ACCESSORY COOLING INSTALLATION (FIGURE 9-3, SHEET 5)</b>		
		INSTALL REDUCER (129) INTO TUBE (105). ATTACH TUBE (127) TO REDUCER (129) AND SECURE WITH ITEMS (131 THRU 135).		
127	332T3403-68	. TUBE ASSY <sup>[2]</sup>		1
127	332T3403-55	. TUBE ASSY (REPLACED BY 332T3403-68) (1 REQD) <sup>[1]</sup>	LTD	-
127	332T3403-45	. TUBE ASSY (REPLACED BY 332T3403-55) (1 REQD) <sup>[1]</sup>	LTD	-
129	MS21916J20-16	. REDUCER <sup>[2]</sup>		1
131	BACS12HN3U8	. SCREW		2
133	NAS1149C0332R	. WASHER		2
135	BACN10YR3C	. NUT		2
		*[1] PMA WITH 1 COOLING PORT		
		*[2] PMA WITH 2 COOLING PORTS		

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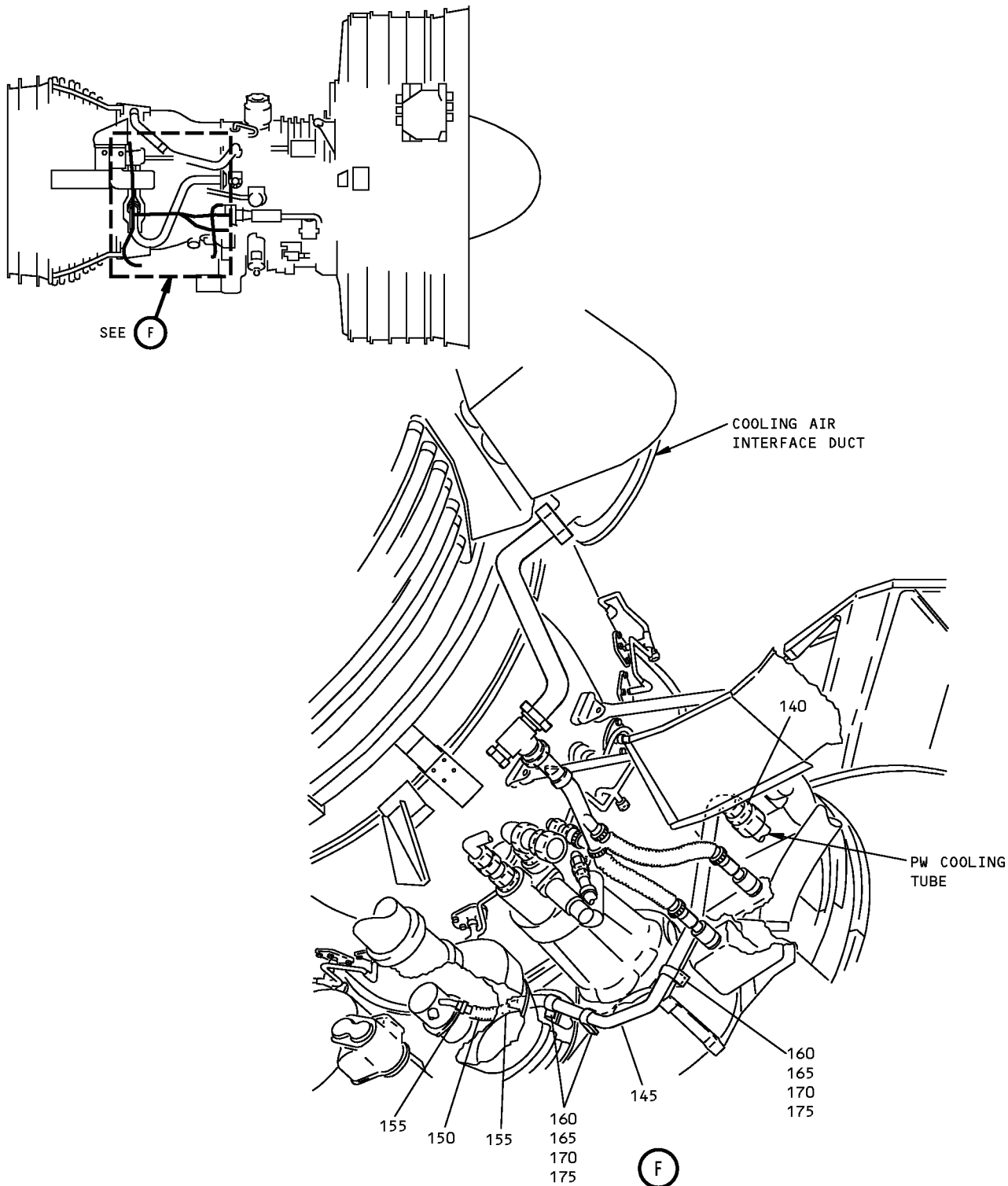
P/P BUILDUP FIGURE 9-3

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**POWERPLANT BUILDUP MANUAL**



**Accessory Cooling Installation  
Figure 9-3 (Sheet 6)**

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P/P BUILDUP FIGURE 9-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
9-3		<b>ACCESSORY COOLING INSTALLATION (FIGURE 9-3, SHEET 6)</b>		
		INSTALL REDUCER (140) INTO PW COOLING TUBE. POSITION TUBE ASSY (145) AND HOSE (150). SECURE WITH ITEMS (155 THRU 175).		
140	MS21916J20-16	. REDUCER		1
145	332T3403-79	. TUBE ASSY		1
145	332T3403-54	. TUBE ASSY (REPLACED BY 332T3403-79)	LTD	-
150	332T3402-1	. HOSE		1
150	AS1505-02D0042	. HOSE (REPLACED BY 332T3402-1)	LTD	-
155	NAS1922-0050-3	. CLAMP		2
160	TA027016-16	. CLAMP (V84971)	VEN	2
160	BACC10HS16	. CLAMP (REPLACED BY TA027016-16)	LTD	-
165	BACS12HN3U8	. SCREW		2
170	NAS1149C0332R	. WASHER		2
175	BACN10YR3C	. NUT		2

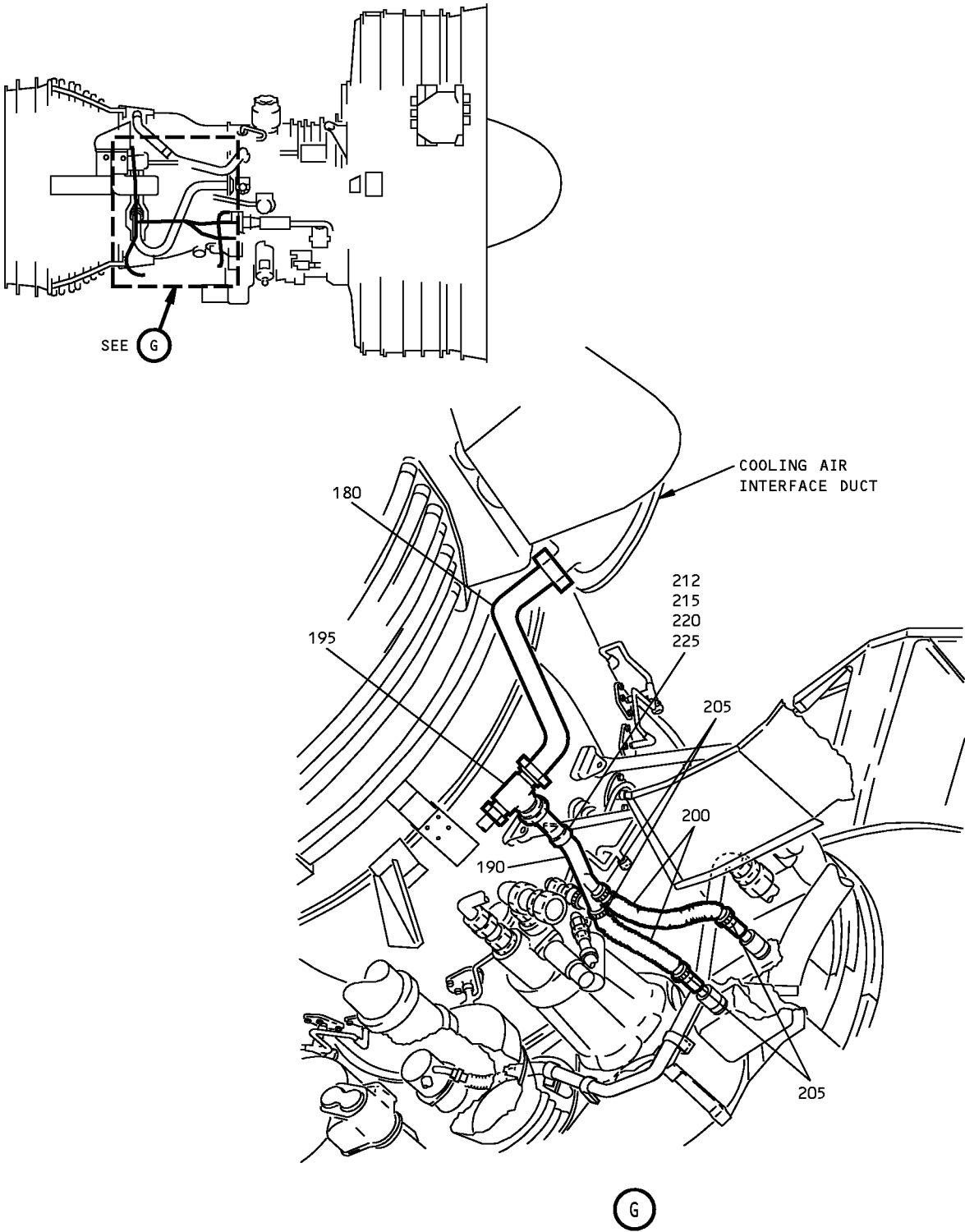
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P/P BUILDUP FIGURE 9-3

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**Accessory Cooling Installation  
Figure 9-3 (Sheet 7)**

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P/P BUILDUP FIGURE 9-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
9-3		<b>ACCESSORY COOLING INSTALLATION (FIGURE 9-3, SHEET 7)</b>		
		POSITION TUBE ASSYS (180, 190), TEE (195), AND HOSES (200) BETWEEN COOLING AIR INTERFACE DUCT AND ENGINE IGNITION EXCITERS. SECURE WITH ITEMS (205 THRU 225).		
180	332T4470-31	. TUBE ASSY		1
180	332T4470-20	. TUBE ASSY (REPLACED BY 332T4470-31)	LTD	-
190	332T3403-58	. TUBE ASSY		1
190	332T3403-30	. TUBE ASSY	OPT	-
195	BACT16AS241620W	. TEE		1
200	5238	. HOSE (V99135)	VEN	2
205	BACC10JB022C040	. CLAMP		4
212	TA027016-20	. CLAMP (V84971)	VEN	1
215	BACS12HN3U8	. SCREW		1
220	NAS1149C0332R	. WASHER		1
225	BACN10YR3C	. NUT		1

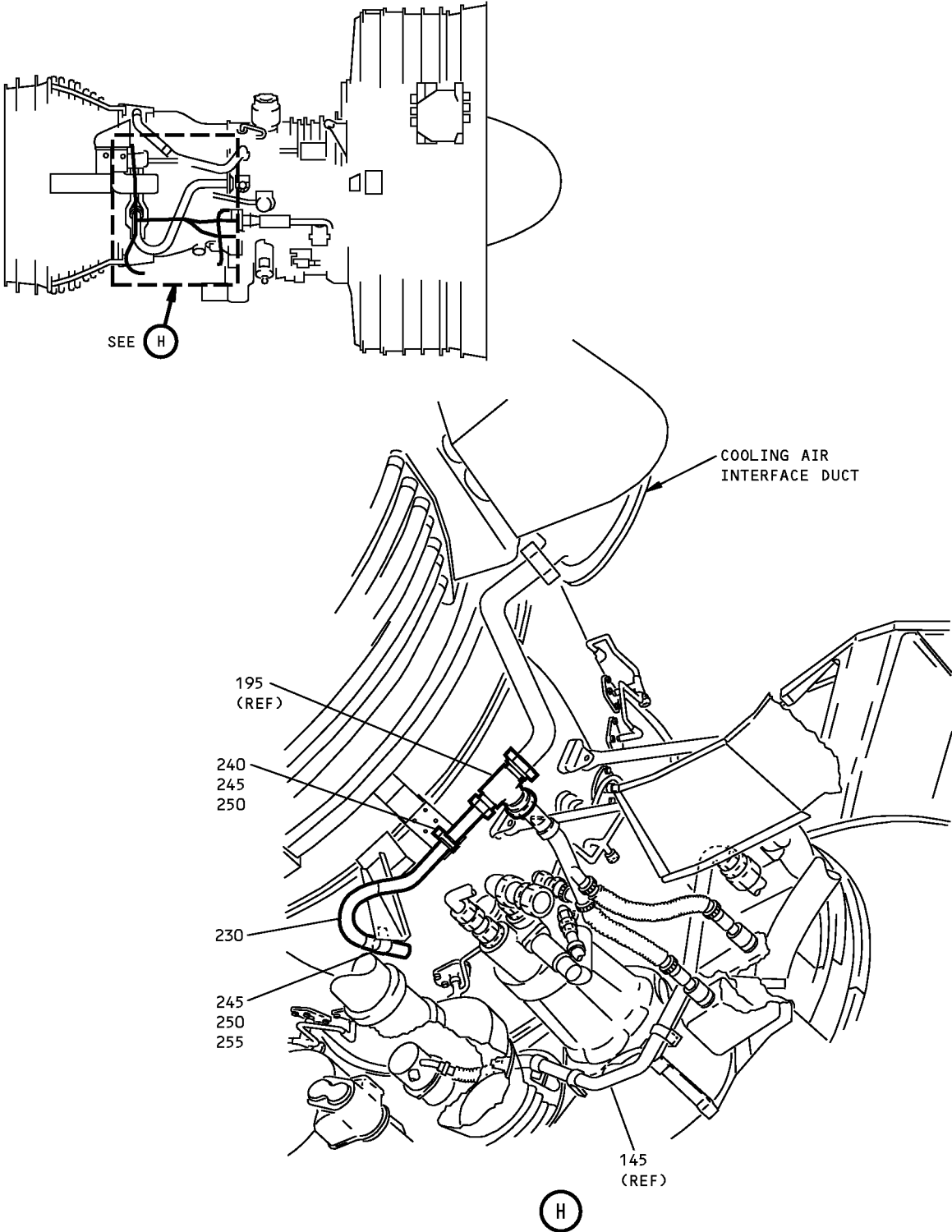
**71-00-02**

P/P BUILDUP FIGURE 9-3

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Accessory Cooling Installation  
Figure 9-3 (Sheet 8)

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P/P BUILDUP FIGURE 9-3  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
9-3		<b>ACCESSORY COOLING INSTALLATION (FIGURE 9-3, SHEET 8)</b>		
		ATTACH TUBE ASSY (230) INTO TEE (195). SECURE WITH ITEMS (240 THRU 255).		
230	332T3403-47	. TUBE ASSY		1
240	TA027016-16	. CLAMP		1
240	BACC10HS16	. CLAMP (REPLACED BY TA027016-16)	LTD	-
245	BACS12HN3U8	. SCREW		2
250	NAS1149C0332R	. WASHER		2
255	BACN10YR3C	. NUT		1

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P/P BUILDUP FIGURE 9-3

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FIGURE 10-1

**AVM SYSTEM ACCELEROMETER  
INSTALLATION**

REF QEC TASK NO.: 10

REF DWG: 332T4420

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

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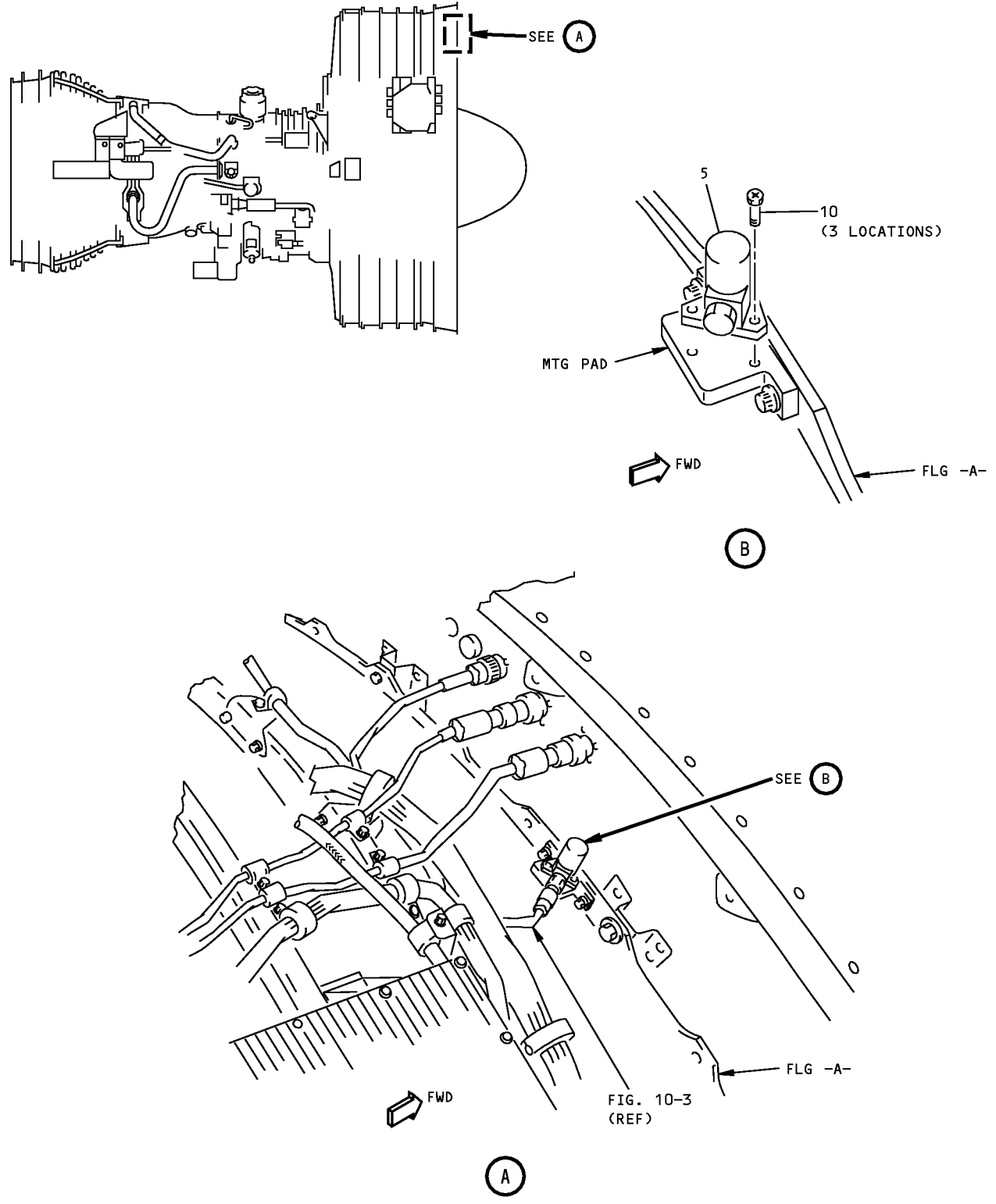
P/P BUILDUP FIGURE 10-1

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**POWERPLANT BUILDUP MANUAL**



**AVM System Accelerometer Installation**  
**Figure 10-1 (Sheet 1)**

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P/P BUILDUP FIGURE 10-1

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**POWERPLANT BUILDUP MANUAL**

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-1		<p><b>AVM SYSTEM ACCELEROMETER INSTALLATION (FIGURE 10-1, SHEET 1)</b></p> <p>INSTALL ACCELEROMETER (5) ON ENGINE FLG -A- MTG PAD AND SECURE WITH SCREWS (10). INSTALL SAFETY CABLE OR LOCKWIRE.</p>		
5	144-151-000-101	. ACCELEROMETER (VS3960) (BOEING S332T304-1)	VEN	-
5	S332T304-1	. ACCELEROMETER		1
10	BACS12HM08AHU10	. SCREW		3

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P/P BUILDUP FIGURE 10-1

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FIGURE 10-2

# V-BAND ANCHOR INSTALLATION

REF QEC TASK NO.: 10

REF DWG: 315T3207

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

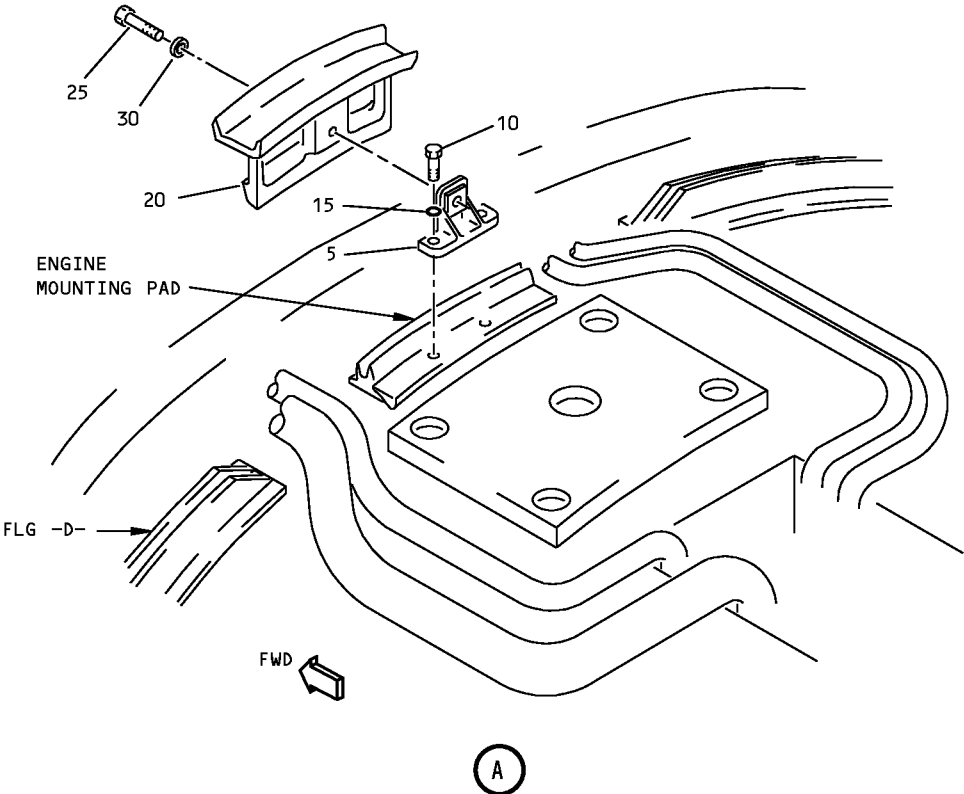
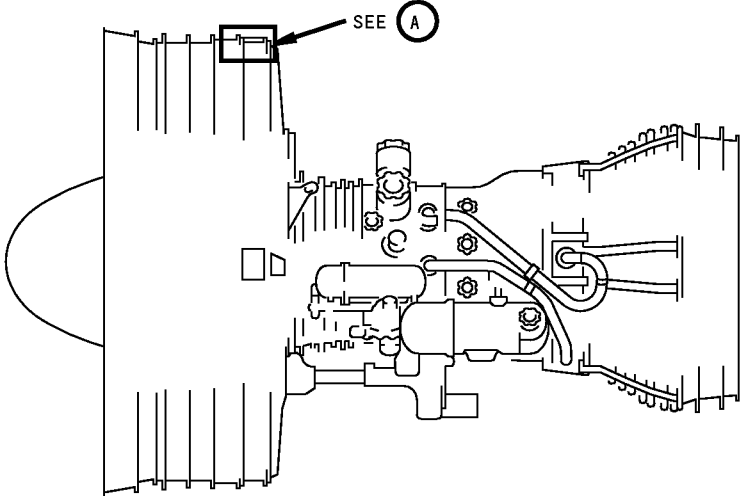
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P/P BUILDUP FIGURE 10-2

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**V-Band Anchor Installation**  
**Figure 10-2 (Sheet 1)**

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P/P BUILDUP FIGURE 10-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-2		<b>V-BAND ANCHOR INSTALLATION (FIGURE 10-2, SHEET 1)</b>  INSTALL FITTING (5) ON ENGINE MOUNTING PAD AND SECURE WITH ITEMS (10, 15). LOCKWIRE.		
5	315T3255-5	. FITTING ASSY		1
10	BACB30LJ4H4	. BOLT		2
10	BACB30LM4H4	. BOLT	OPT	-
15	NAS1149C0463R	. WASHER		2
		ALIGN SADDLE FITTING (20) TO MATING GROOVE AND FITTING ASSY (5). ENSURE SADDLE FITTING IS RESTING FIRMLY IN BOTTOM OF VEE GROOVE AND AGAINST AFT FACE. SECURE WITH ITEMS (25,30). TIGHTEN BOLT (25) 130-180 LB-IN. VERIFY SADDLE FITTING IS STILL SEATED SO THAT SURFACES REMAIN IN CONTACT WITHOUT PRELOADING.		
20	315T4021-1	. SADDLE FITTING		1
20	315T4021-2	. SADDLE FITTING	OPT	-
25	BACB30LE5U14	. BOLT		1
30	BACW10BP5ACU	. WASHER		1

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P/P BUILDUP FIGURE 10-2

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**FIGURE 10-3**

**WIRE HARNESS INSTALLATION - FAN CASE**  
(WITHOUT SCU)

**REF QEC TASK NO.: 10**

**REF DWG: 332T4240**  
**332T4250**

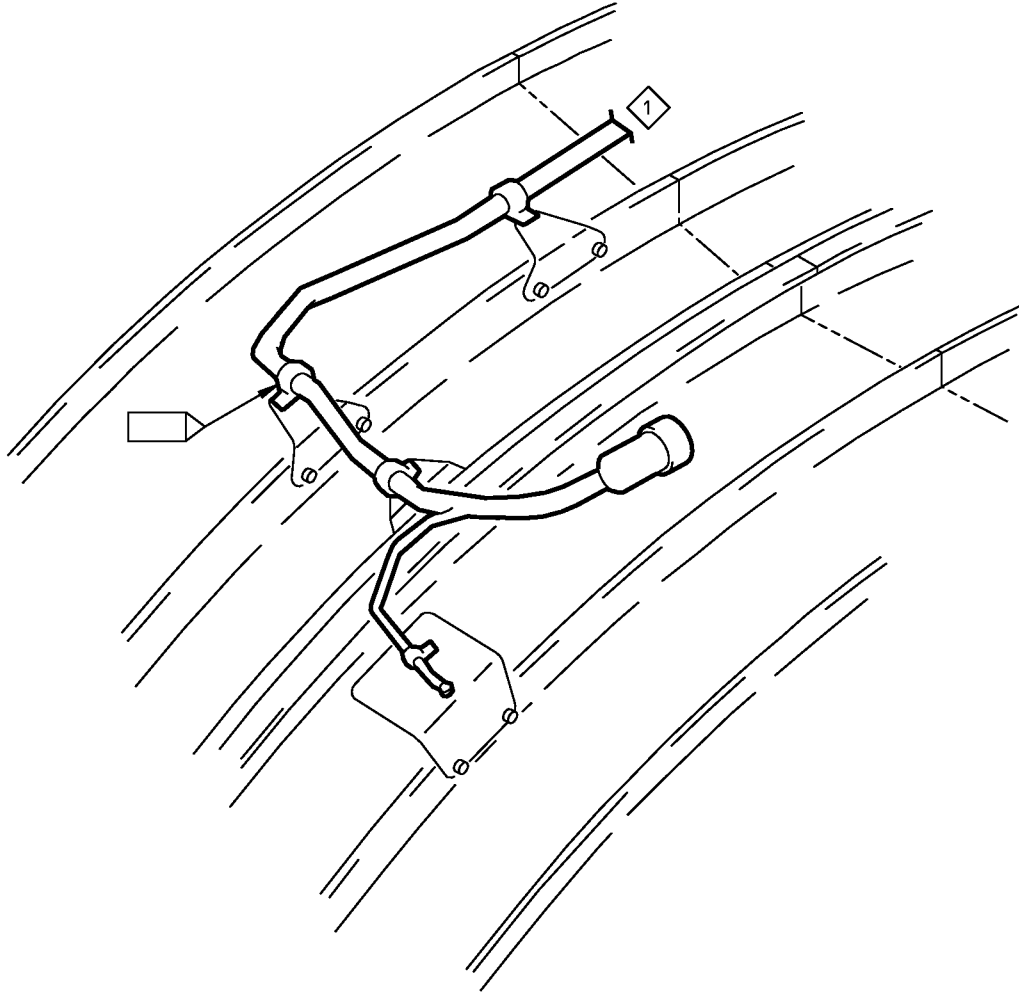
**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

**71-00-02**



P/P BUILDUP FIGURE 10-3

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EXAMPLE OF WIRE HARNESS INSTALLATION

-  INDICATES INSTALLATION REFERENCE POINT WHICH IS WRAPPED WITH GREEN OR RED TAPE AROUND BUNDLE
-  DIAMOND WITH A NUMBER INDICATES A CONTINUATION TO A DIAMOND WITH THE SAME NUMBER IN ANOTHER SHEET OR ILLUSTRATION

**Wire Harness Installation - Fan Case  
 (WITHOUT SCU)  
 Figure 10-3 (Sheet 1)**

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P/P BUILDUP FIGURE 10-3

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ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-3		<p><b>WIRE HARNESS INSTALLATION - FAN CASE (WITHOUT SCU) (FIGURE 10-3, SHEET 1)</b></p> <p>REVIEW ELECTRICAL HARNESS STANDARD PRACTICES (INTRODUCTION) BEFORE BEGINNING INSTALLATION.</p> <p>SYMBOLS TO AID IN THE USE OF THESE ILLUSTRATIONS ARE SHOWN ON THE PRECEDING PAGE.</p> <p><b>NOTE:</b> ALL BACC10GU( ) CLAMPS ARE REPLACED BY TA025041-( ) CLAMPS. USE OF BACC10GU( ) CLAMPS ARE PERMITTED UNTIL SUPPLY IS EXHAUSTED.</p>		

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P/P BUILDUP FIGURE 10-3

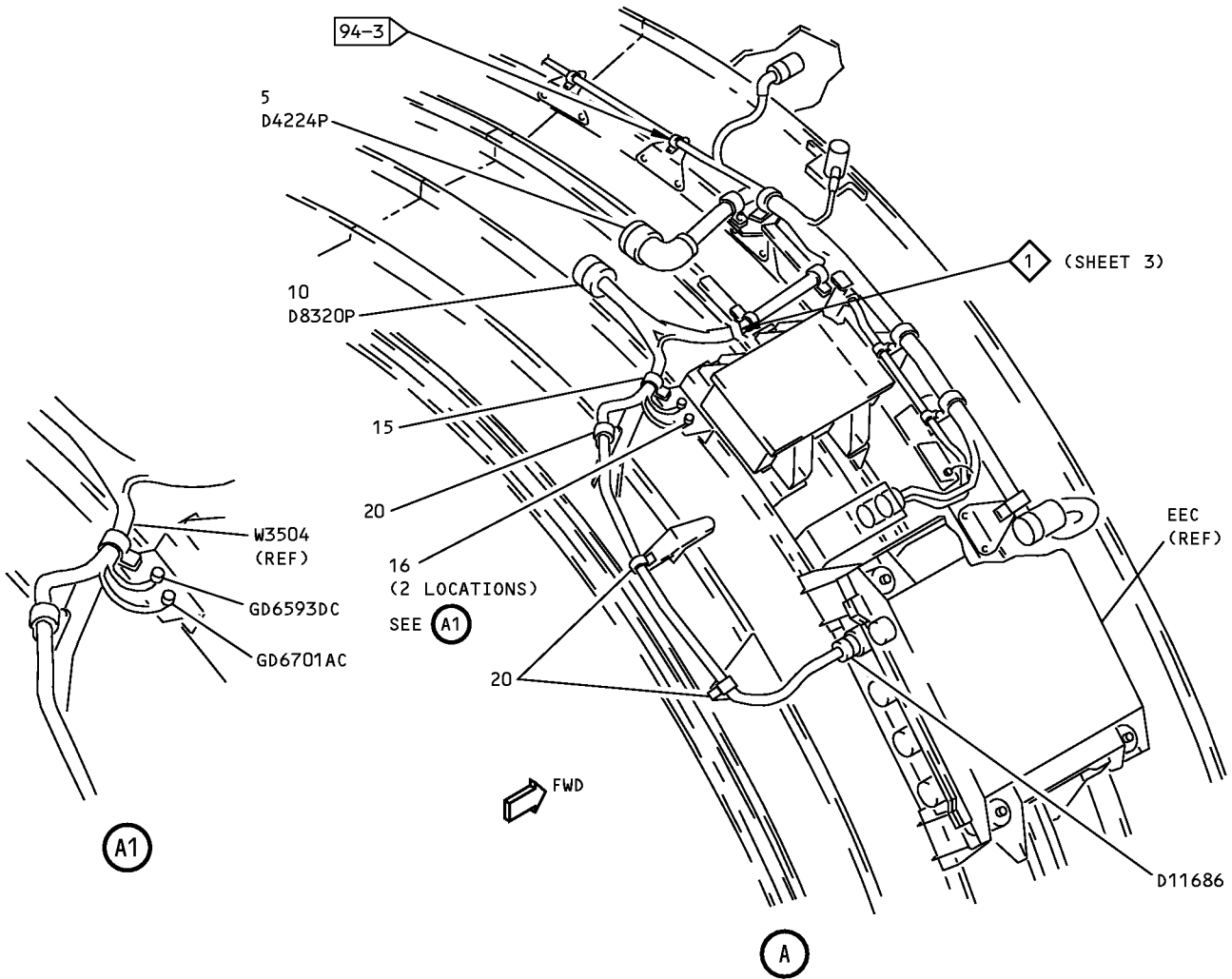
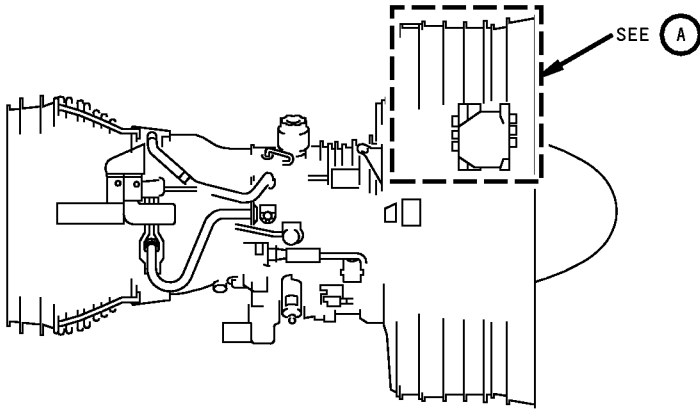
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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Fan Case  
(WITHOUT SCU)  
Figure 10-3 (Sheet 2)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-3		<b>WIRE HARNESS INSTALLATION - FAN CASE (WITHOUT SCU) (FIGURE 10-3, SHEET 2)</b>		
		THE FOLLOWING IS A LIST OF ALL WIRE BUNDLES ON THE ENGINE FAN CASE.		
5	286T3502	. WIRE BUNDLE ASSY (W3502)		1
10	286T3504	. WIRE BUNDLE ASSY (W3504)		1
		POSITION W/B'S W3502 (5) AND W3504 (10) DOWN RIGHT SIDE OF FAN CASE. ATTACH W/B W3504 (10) TO BRACKET WITH ITEMS (15).		
15	TA025041-( )	. CLAMP		1
	BACS12HN3U8	. SCREW		1
	NAS1149C0332R	. WASHER		1
	BACN10YR3C	. NUT		1
		ATTACH WIRE LUGS GD6593DC AND GD6701AC ON W/B W3504 (10) TO GROUND STUDS WITH ITEMS (16).		
16	NAS1149C0332R	. WASHER		2
	BACN10YR3C	. NUT		2
		AT THREE LOCATIONS, ATTACH W/B W3504 (10) TO BRACKETS WITH ITEMS (20).		
20	TA025041-( )	. CLAMP		3
	BACS12HN3U8	. SCREW		3
	NAS1149C0332R	. WASHER		3
	BACN10YR3C	. NUT		3
		INSTALL CONNECTOR D11686 ON W/B W3504 (10) TO THE ELECTRONIC ENGINE CONTROL UNIT (EEC).		

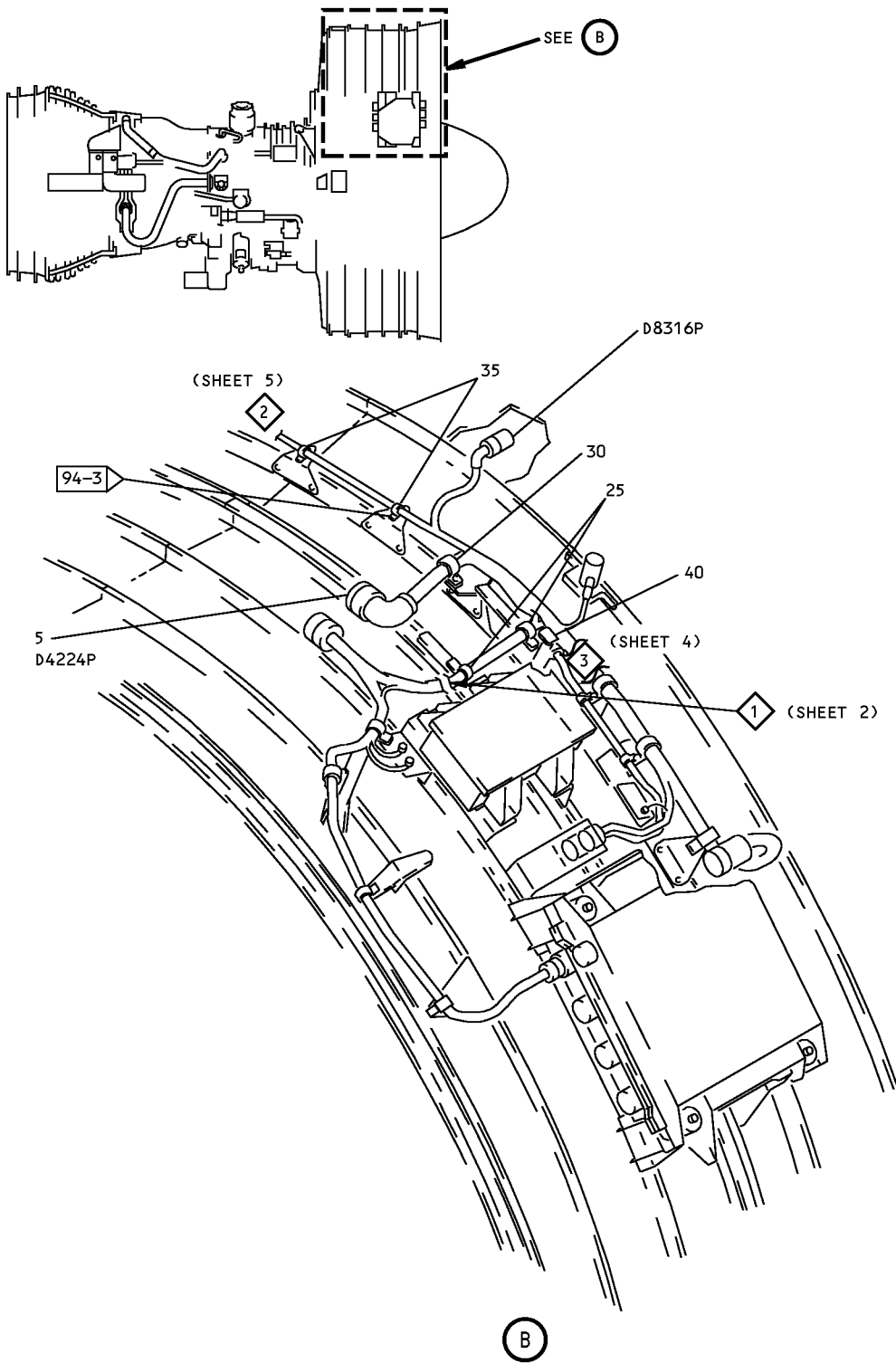
**71-00-02**

P/P BUILDUP FIGURE 10-3

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Wire Harness Installation - Fan Case  
(WITHOUT SCU)  
Figure 10-3 (Sheet 3)

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## POWERPLANT BUILDUP MANUAL

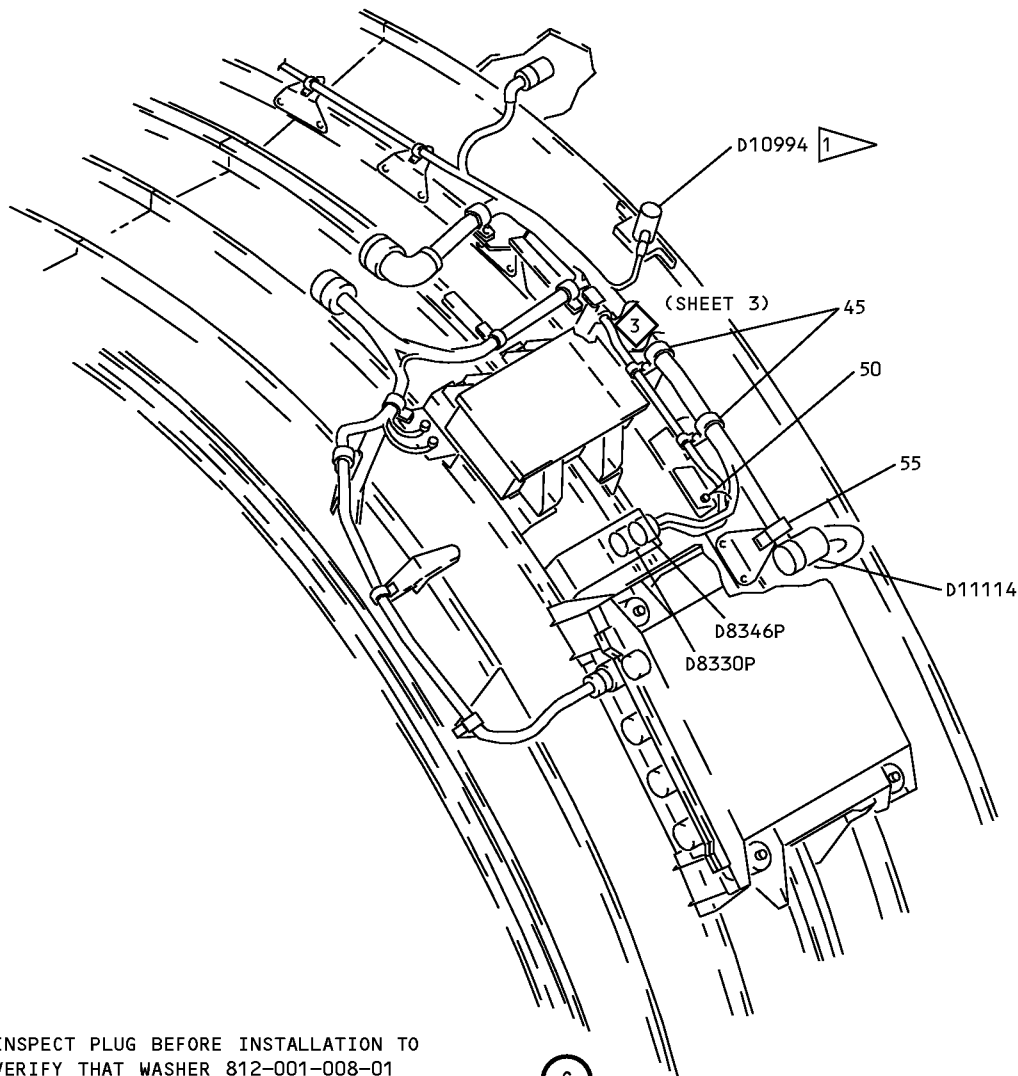
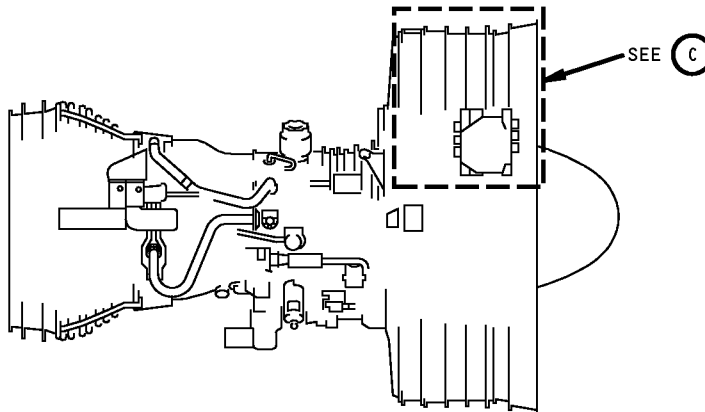
ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-3		<b>WIRE HARNESS INSTALLATION - FAN CASE (WITHOUT SCU) (FIGURE 10-3, SHEET 3)</b>		
25	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	AT TWO LOCATIONS, ATTACH W/B W3504 (10) TO BRACKETS WITH ITEMS (25). . CLAMP . SCREW . WASHER . NUT		2 2 2 2
30	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3502 (5) FROM THE STRUT DISCONNECT (D4224P) TO BRACKET WITH ITEMS (30). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
35	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	AT TWO LOCATIONS, ATTACH W/B W3504 (10) TO BRACKETS WITH ITEMS (35). . CLAMP . SCREW . WASHER . NUT		2 2 2 2
40	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3504 (10) TO BRACKET WITH ITEMS (40). . CLAMP . SCREW . WASHER . NUT		1 1 1 1

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P/P BUILDUP FIGURE 10-3

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1 INSPECT PLUG BEFORE INSTALLATION TO VERIFY THAT WASHER 812-001-008-01 (SUPPLIED WITH WIRE HARNESS) IS INSTALLED.

**Wire Harness Installation - Fan Case  
(WITHOUT SCU)  
Figure 10-3 (Sheet 4)**

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P/P BUILDUP FIGURE 10-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-3		<p><b>WIRE HARNESS INSTALLATION - FAN CASE (WITHOUT SCU)</b> <b>(FIGURE 10-3, SHEET 4)</b></p> <p>INSTALL CONNECTOR D10994 ON W/B W3504 (10) TO THE ENGINE FAN ACCELEROMETER.</p> <p>ATTACH W/B'S W3502 (5) AND W3504 (10) TO BRACKETS WITH ITEMS (45).</p>		
45	TA025041-( )	. CLAMP		2
	TA025041-( )	. CLAMP		2
	BACS12HN3U8	. SCREW		2
	NAS1149C0332R	. WASHER		2
	BACN10YR3C	. NUT		2
50	NAS1149C0332R	. WASHER		1
	BACN10YR3C	. NUT		1
55	TA025041-( )	. CLAMP		1
	BACS12HN3U8	. SCREW		1
	NAS1149C0332R	. WASHER		1
	BACN10YR3C	. NUT		1
		<p>ATTACH WIRE LUG GD6589DC ON W/B W3504 (10) TO GROUND STUD WITH ITEMS (50).</p> <p>ATTACH CONNECTORS D8346P ON W/B W3504 (10) AND D8330P ON W/B W3502 (5) TO VENDOR WIRING RECEPTACLES.</p> <p>ATTACH W/B W3502 (5) TO BRACKET WITH ITEMS (55).</p> <p>INSTALL CONNECTOR D11114 ON W/B W3502 (5) TO THE ELECTRONIC ENGINE CONTROL UNIT (EEC).</p>		

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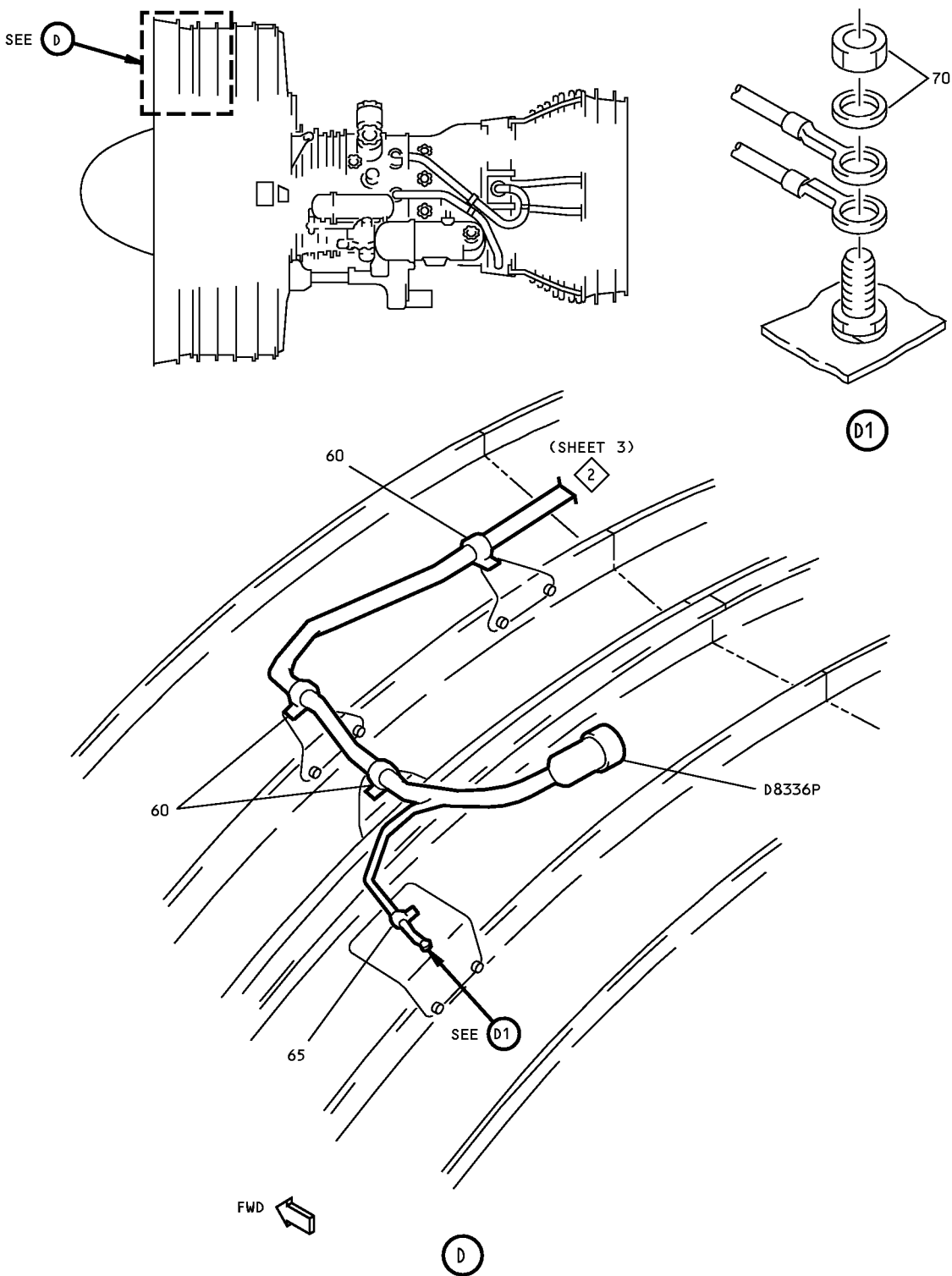
P/P BUILDUP FIGURE 10-3

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**Wire Harness Installation - Fan Case  
(WITHOUT SCU)  
Figure 10-3 (Sheet 5)**

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P/P BUILDUP FIGURE 10-3  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-3		<b>WIRE HARNESS INSTALLATION - FAN CASE (WITHOUT SCU) (FIGURE 10-3, SHEET 5)</b>		
		AT THREE LOCATIONS, ATTACH W/B W3504 (10) TO BRACKETS WITH ITEMS (60).		
60	TA025041-( )	. CLAMP		3
	BACS12HN3U8	. SCREW		3
	NAS1149C0332R	. WASHER		3
	BACN10YR3C	. NUT		3
65	TA025041-( )	ATTACH W/B W3504 (10) TO BRACKET WITH ITEMS (65).		
		. CLAMP		1
	BACS12HN3U8	. SCREW		1
	NAS1149C0332R	. WASHER		1
	BACN10YR3C	. NUT		1
70	NAS1149C0332R	ATTACH WIRE LUG GD6635S ON W/B W3504 (10) TO GROUND STUD WITH ITEMS (70).		
		. WASHER		1
	BACN10YR3C	. NUT		1

**71-00-02**

P/P BUILDUP FIGURE 10-3

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**FIGURE 10-4**

**WIRE HARNESS INSTALLATION - FAN CASE**  
(WITH SCU)

**REF QEC TASK NO.: 10**

**REF DWG: 332T4240**  
**332T4250**

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

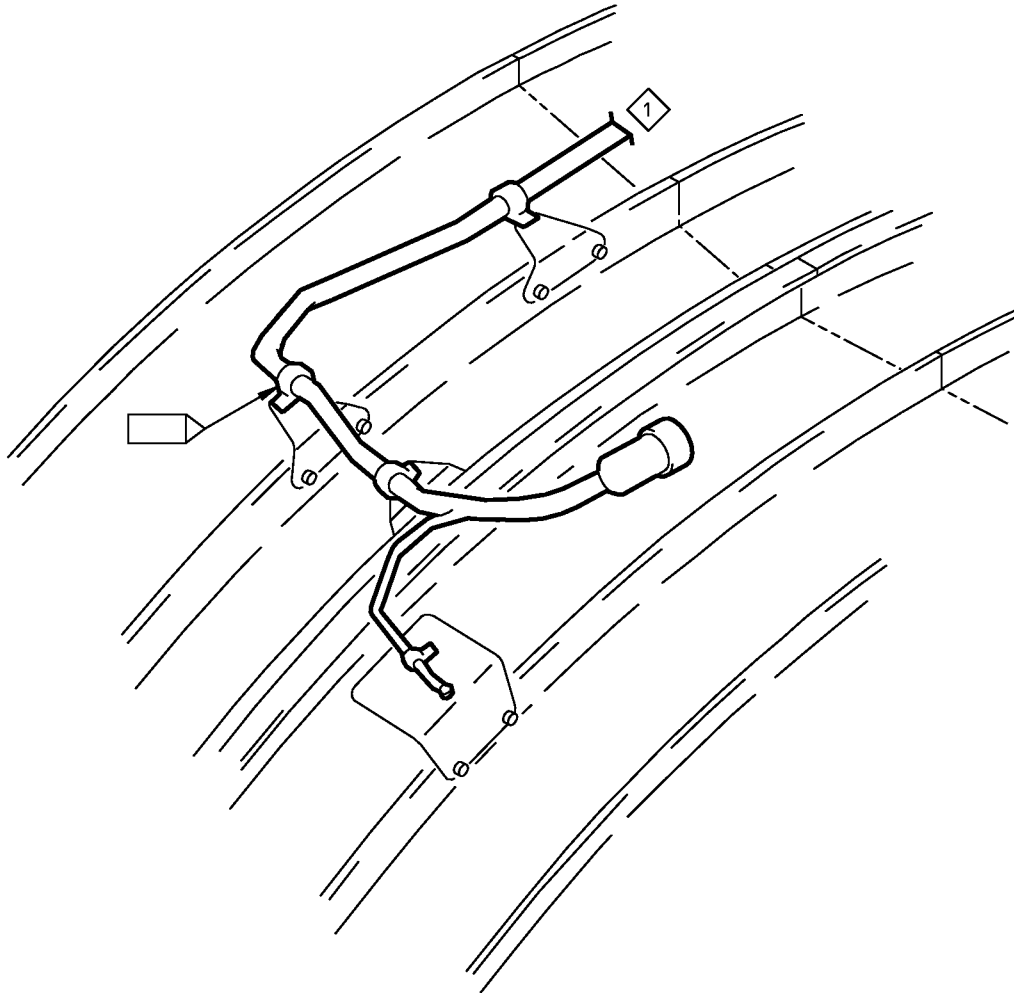
**71-00-02**

P/P BUILDUP FIGURE 10-4



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## POWERPLANT BUILDUP MANUAL



EXAMPLE OF WIRE HARNESS INSTALLATION

-  INDICATES INSTALLATION REFERENCE POINT WHICH IS WRAPPED WITH GREEN OR RED TAPE AROUND BUNDLE
-  DIAMOND WITH A NUMBER INDICATES A CONTINUATION TO A DIAMOND WITH THE SAME NUMBER IN ANOTHER SHEET OR ILLUSTRATION

**Wire Harness Installation - Fan Case  
(WITH SCU)  
Figure 10-4 (Sheet 1)**

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P/P BUILDUP FIGURE 10-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-4		<p><b>WIRE HARNESS INSTALLATION - FAN CASE (WITH SCU) (FIGURE 10-4, SHEET 1)</b></p> <p>REVIEW ELECTRICAL HARNESS STANDARD PRACTICES (INTRODUCTION) BEFORE BEGINNING INSTALLATION.</p> <p>SYMBOLS TO AID IN THE USE OF THESE ILLUSTRATIONS ARE SHOWN ON THE PRECEDING PAGE.</p> <p><b>NOTE:</b> ALL BACC10GU( ) CLAMPS ARE REPLACED BY TA025041-( ) CLAMPS. USE OF BACC10GU( ) CLAMPS ARE PERMITTED UNTIL SUPPLY IS EXHAUSTED.</p>		

**71-00-02**

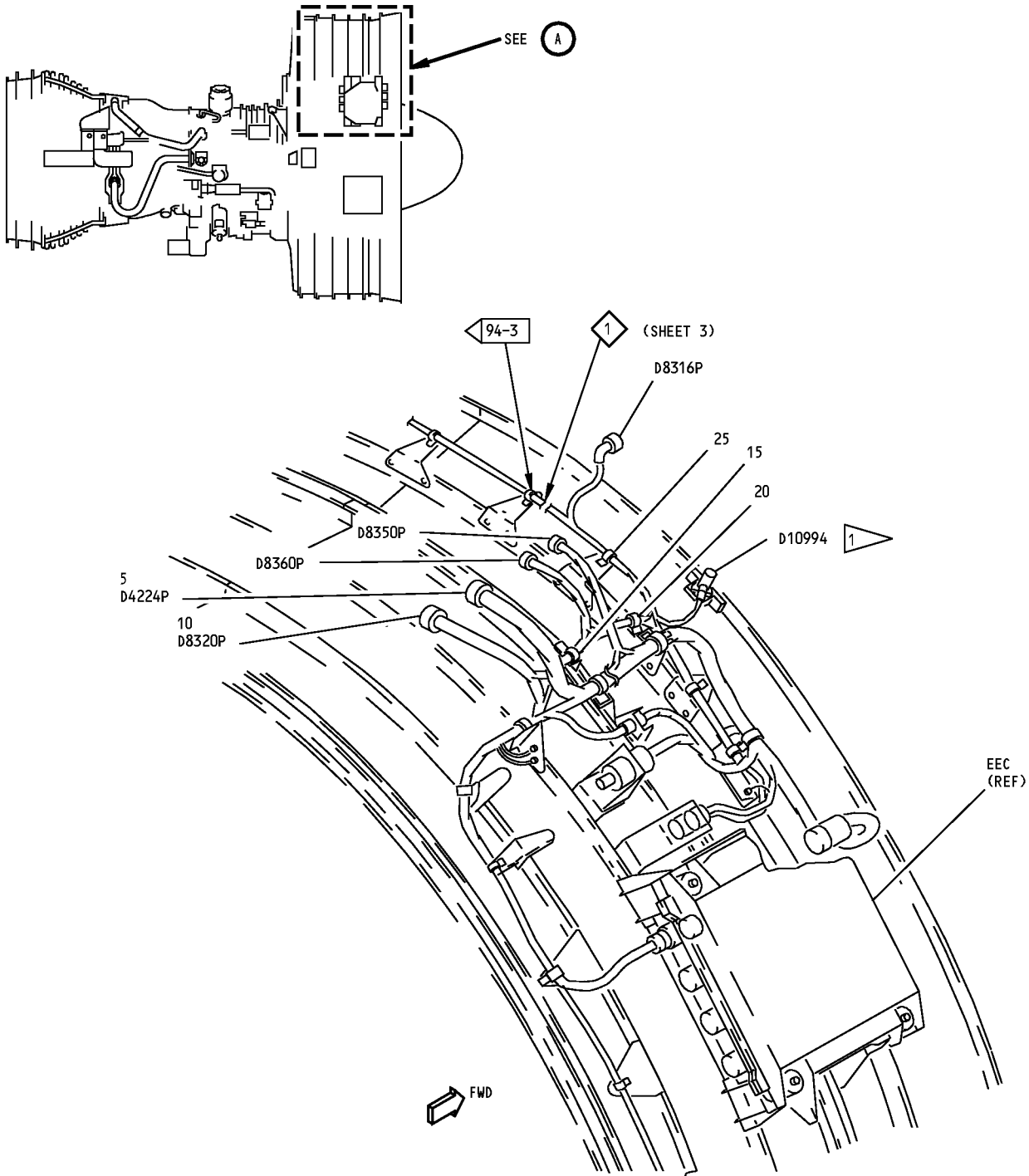
P/P BUILDUP FIGURE 10-4

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**POWERPLANT BUILDUP MANUAL**



1 INSPECT PLUG BEFORE INSTALLATION TO VERIFY THAT WASHER 812-001-008-01 (SUPPLIED WITH WIRE HARNESS) IS INSTALLED.

A

**Wire Harness Installation - Fan Case  
(WITH SCU)  
Figure 10-4 (Sheet 2)**

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P/P BUILDUP FIGURE 10-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-4		<b>WIRE HARNESS INSTALLATION - FAN CASE (WITH SCU) (FIGURE 10-4, SHEET 2)</b>		
		THE FOLLOWING IS A LIST OF ALL WIRE BUNDLES ON THE ENGINE FAN CASE.		
5	286T3502	. WIRE BUNDLE ASSY (W3502)		1
10	286T3504	. WIRE BUNDLE ASSY (W3504)		1
		POSITION W/B'S W3502 (5) AND W3504 (10) DOWN RIGHT SIDE OF FAN CASE. ATTACH W/B W3504 (10) TO BRACKET WITH ITEMS (15).		
15	TA025041-( )	. CLAMP		1
	BACS12HN3U8	. SCREW		1
	NAS1149C0332R	. WASHER		1
	BACN10YR3C	. NUT		1
		ATTACH W/B W3504 (10) TO BRACKET WITH ITEMS (20).		
20	TA025041-( )	. CLAMP		1
	BACS12HN3U8	. SCREW		1
	NAS1149C0332R	. WASHER		1
	BACN10YR3C	. NUT		1
		INSTALL CONNECTOR D10994 ON W/B W3504 (10) TO ACCELEROMETER.		
		ATTACH W/B W3504 (10) TO BRACKET WITH ITEMS (25).		
25	TA025041-( )	. CLAMP		1
	BACS12HN3U8	. SCREW		1
	NAS1149C0332R	. WASHER		1
	BACN10YR3C	. NUT		1

**71-00-02**

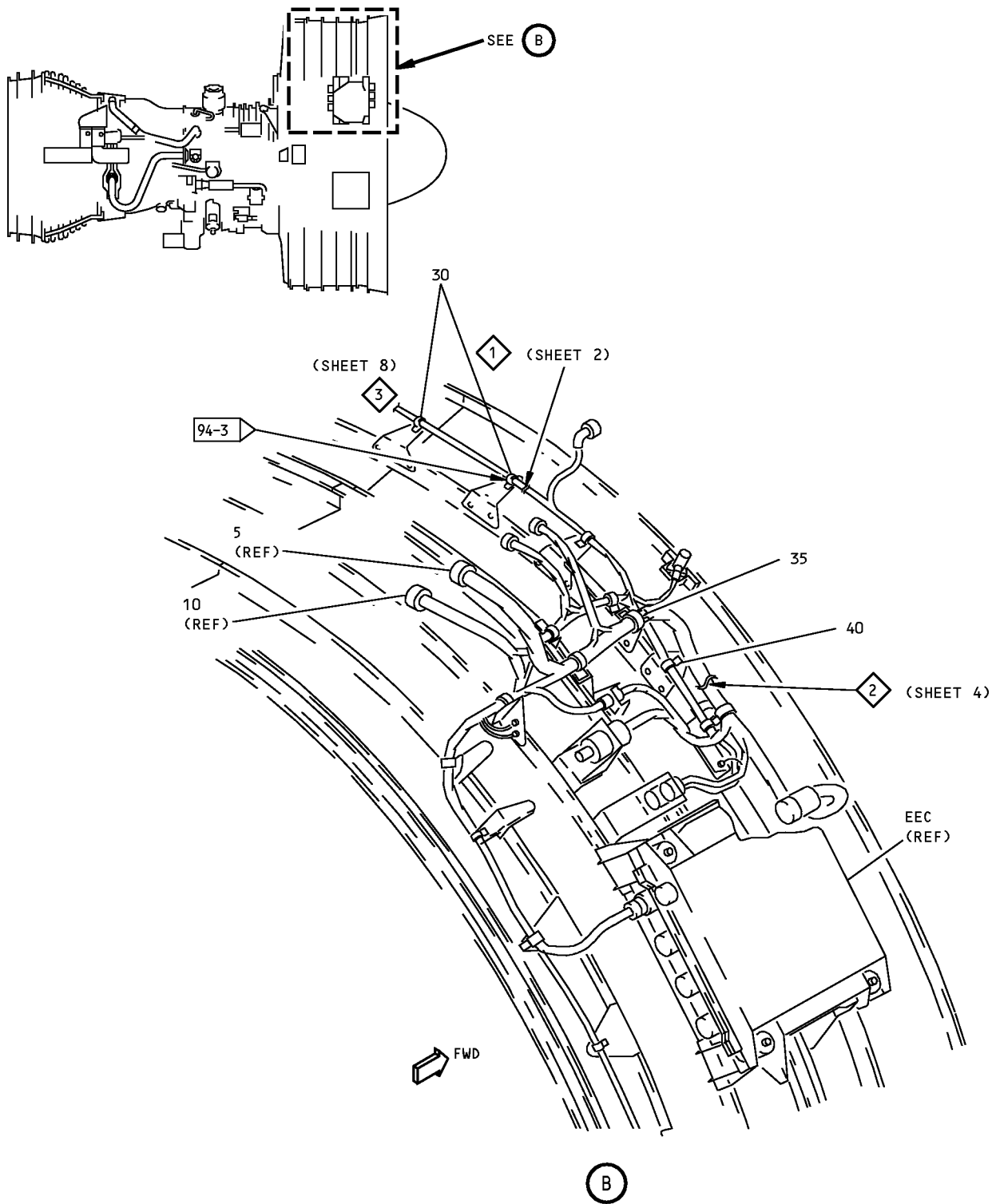
P/P BUILDUP FIGURE 10-4

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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Fan Case  
(WITH SCU)  
Figure 10-4 (Sheet 3)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-4		<b>WIRE HARNESS INSTALLATION - FAN CASE (WITH SCU) (FIGURE 10-4, SHEET 3)</b>		
30	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3504 (10) TO BRACKETS WITH ITEMS (30). . CLAMP . SCREW . WASHER . NUT		2 2 2 2
35	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3504 (10) TO BRACKET WITH ITEMS (35). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
40	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3502 (5)/W3504 (10) TO BRACKET WITH ITEMS (40). . CLAMP . SCREW . WASHER . NUT		1 1 1 1

**71-00-02**

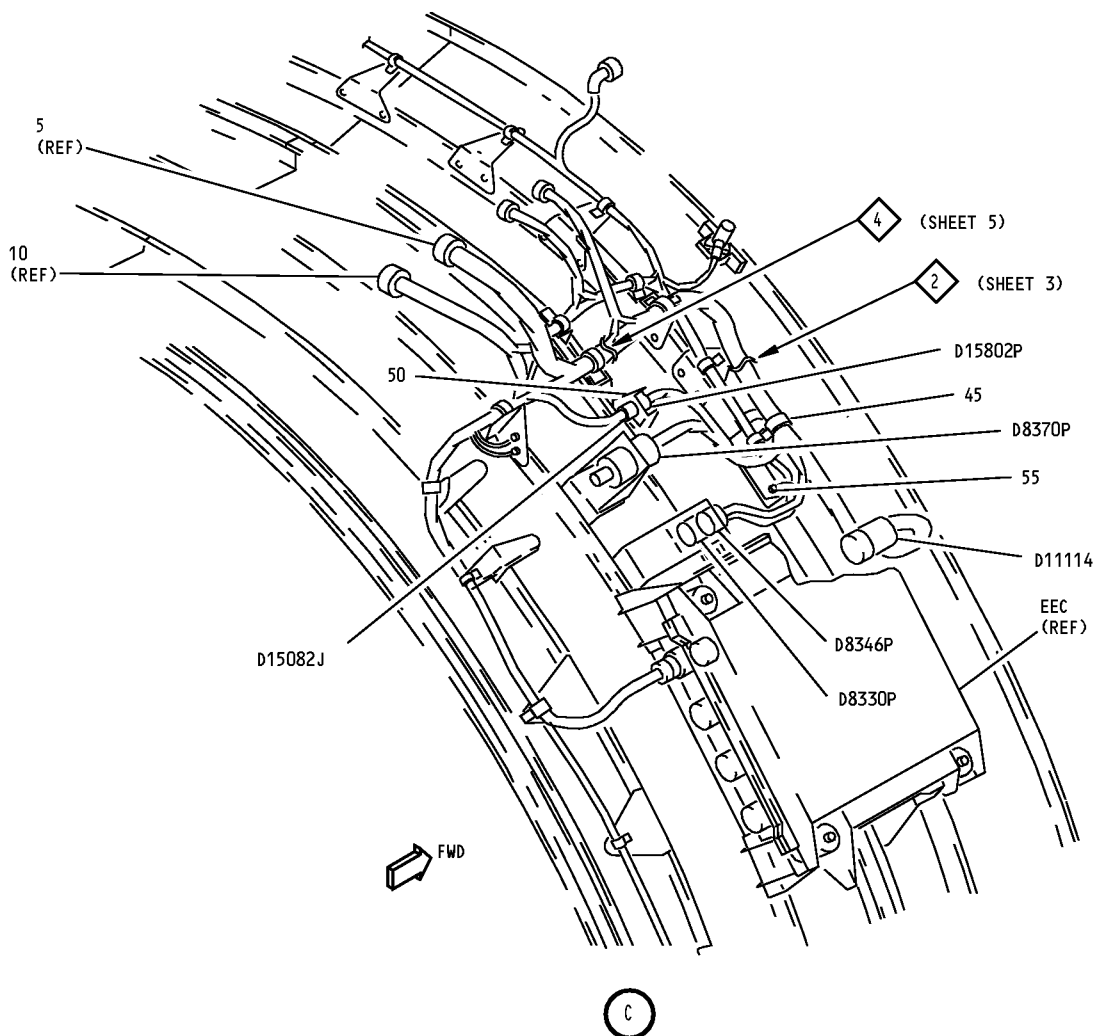
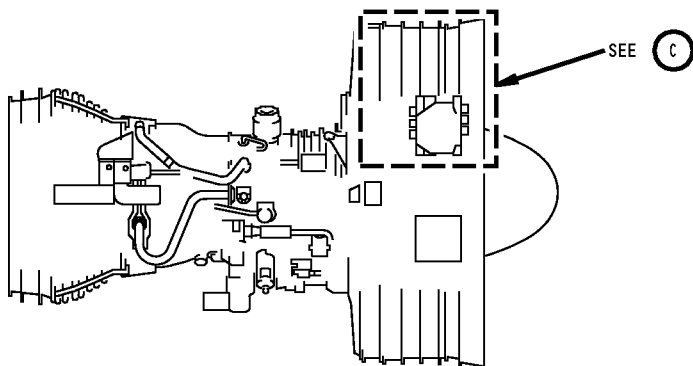
P/P BUILDUP FIGURE 10-4

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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Fan Case  
(WITH SCU)  
Figure 10-4 (Sheet 4)**

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P/P BUILDUP FIGURE 10-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-4		<b>WIRE HARNESS INSTALLATION - FAN CASE (WITH SCU) (FIGURE 10-4, SHEET 4)</b>		
		ATTACH W/B W3502 (5)/W3504 (10) TO BRACKET WITH ITEMS (45).		
		INSTALL CONNECTORS D8346P/D8370P ON W/B W3502 (5) AND CONNECTOR D8330P ON W/B W3504 (10) TO VENDOR W/B.		
45	TA025041-( )	. CLAMP		1
	TA025041-106	. CLAMP		1
	BACS12HN3U8	. SCREW		1
	NAS1149C0332R	. WASHER		1
	BACN10YR3C	. NUT		1
		INSTALL CONNECTOR TO BRACKET WITH ITEMS (50). INSTALL CONNECTORS D15802P ON W/B W3502 (5) AND D15802J ON W/B W3504 (10) TO CONNECTOR.		
50	BACS12HN04U6	. SCREW		4
	NAS1149CN416R	. WASHER		4
	FS1215-14	. NUT RING (V04967)	VEN	2
	BACN10YR04CM	. NUT (OPTIONAL TO FS1215-14)	OPT	-
		ATTACH WIRE LUG GD6589DC TO GROUND STUD WITH ITEMS (55).		
55	NAS1149C0363R	. WASHER		1
	BACN10YR3C	. NUT		1
		INSTALL CONNECTOR D11114 ON W/B W3502 (5) TO EEC.		

**71-00-02**

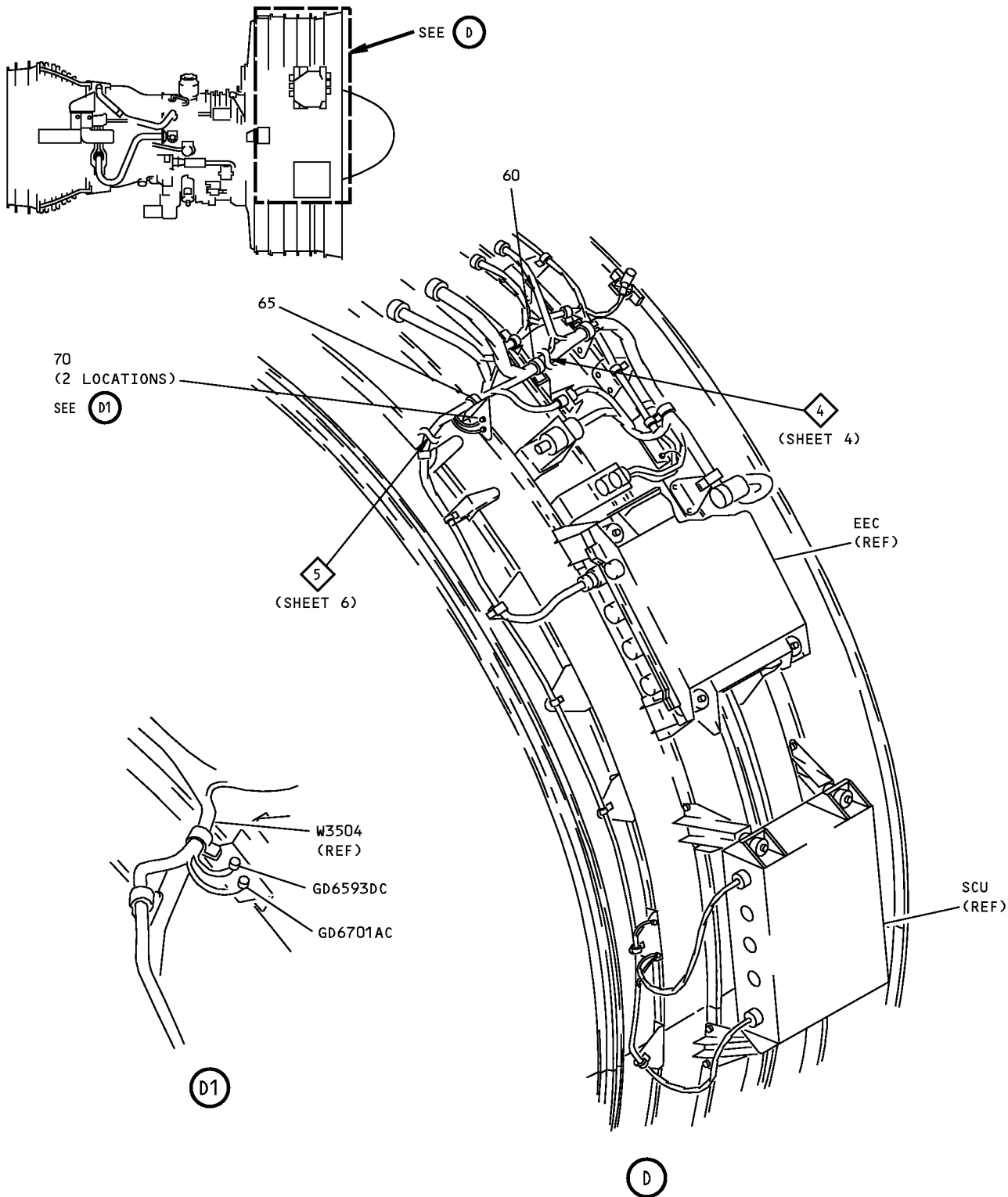
P/P BUILDUP FIGURE 10-4

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POWERPLANT BUILDUP MANUAL



Wire Harness Installation - Fan Case (WITH SCU)  
Figure 10-4 (Sheet 5)

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P/P BUILDUP FIGURE 10-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-4		<b>WIRE HARNESS INSTALLATION - FAN CASE (WITH SCU) (FIGURE 10-4, SHEET 5)</b>		
60	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3502 (5) TO BRACKET WITH ITEMS (60). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
65	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3504 (10) TO BRACKET WITH ITEMS (65). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
70	NAS1149C0363R BACN10YR3C	ATTACH WIRE LUG GD6593DC/GD6701AC ON W/B W3504 (10) TO GROUND STUD WITH ITEMS (70). . WASHER . NUT		2 2

**71-00-02**

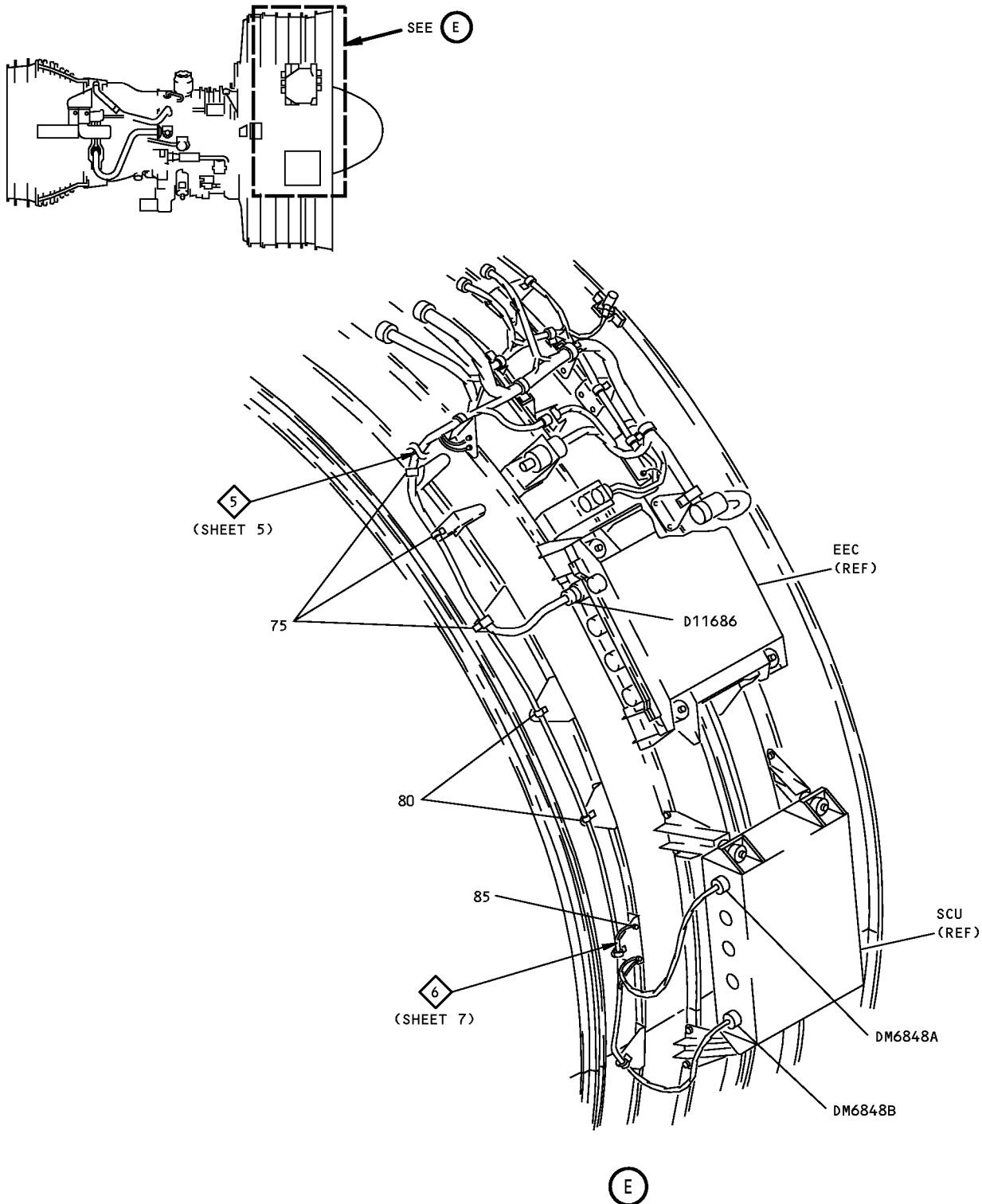
P/P BUILDUP FIGURE 10-4

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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Fan Case  
(WITH SCU)  
Figure 10-4 (Sheet 6)**

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P/P BUILDUP FIGURE 10-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-4		<b>WIRE HARNESS INSTALLATION - FAN CASE (WITH SCU) (FIGURE 10-4, SHEET 6)</b>		
75	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3504 (10) TO BRACKETS WITH ITEMS (75). . CLAMP . SCREW . WASHER . NUT		3 3 3 3
80	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	INSTALL CONNECTOR D11686 ON W/B W3504 (10) TO ECC. ATTACH W/B W3502 (5)/W3504 (10) TO BRACKETS WITH ITEMS (80). . CLAMP . SCREW . WASHER . NUT		2 2 2 2
85	NAS1149C0363R BACN10YR3C	ATTACH WIRE LUG GD12511AC ON W/B W3502 (5)/W3504 (10) TO GROUND STUD WITH ITEMS (85). . WASHER . NUT		1 1

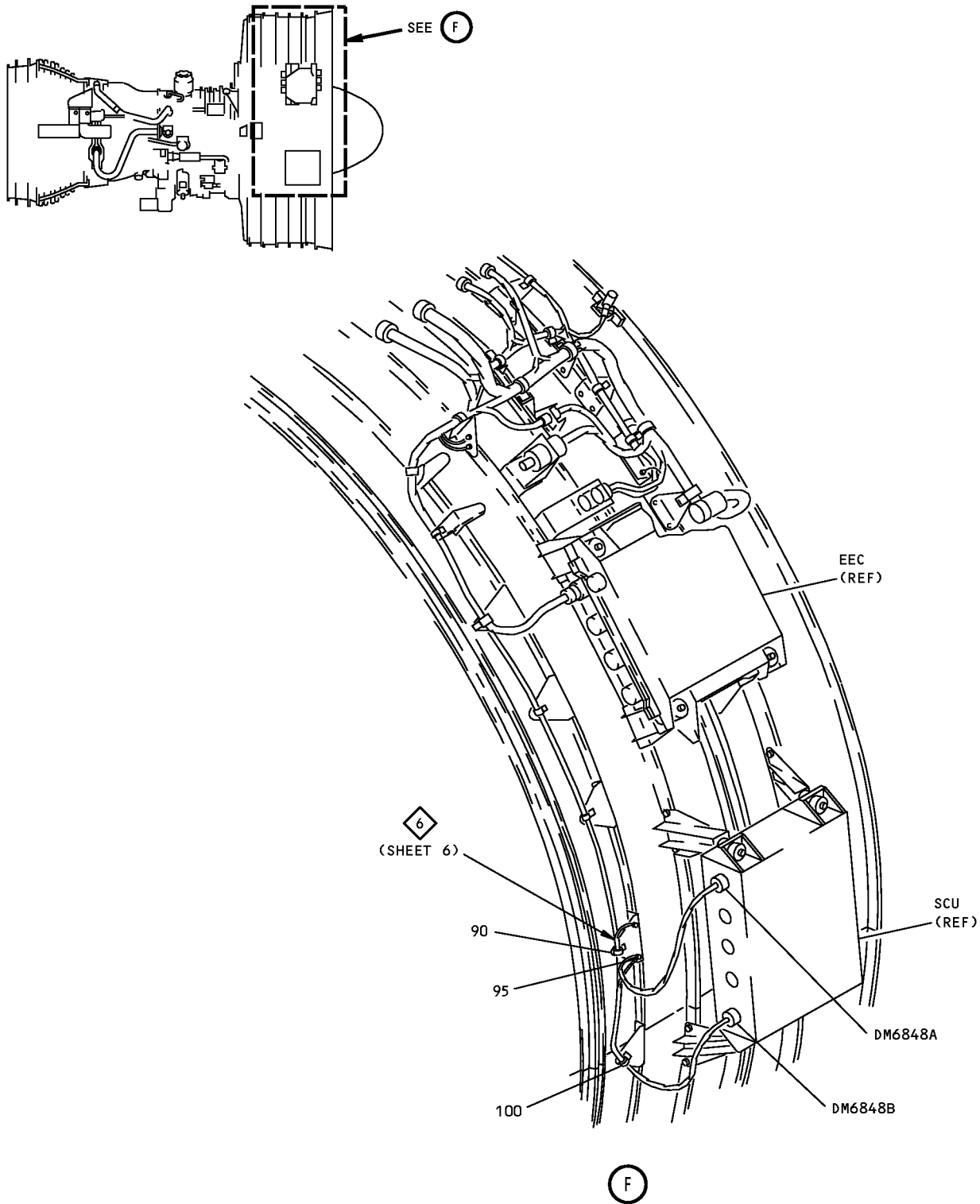
**71-00-02**

P/P BUILDUP FIGURE 10-4

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Wire Harness Installation - Fan Case  
(WITH SCU)  
Figure 10-4 (Sheet 7)

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P/P BUILDUP FIGURE 10-4

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## POWERPLANT BUILDUP MANUAL

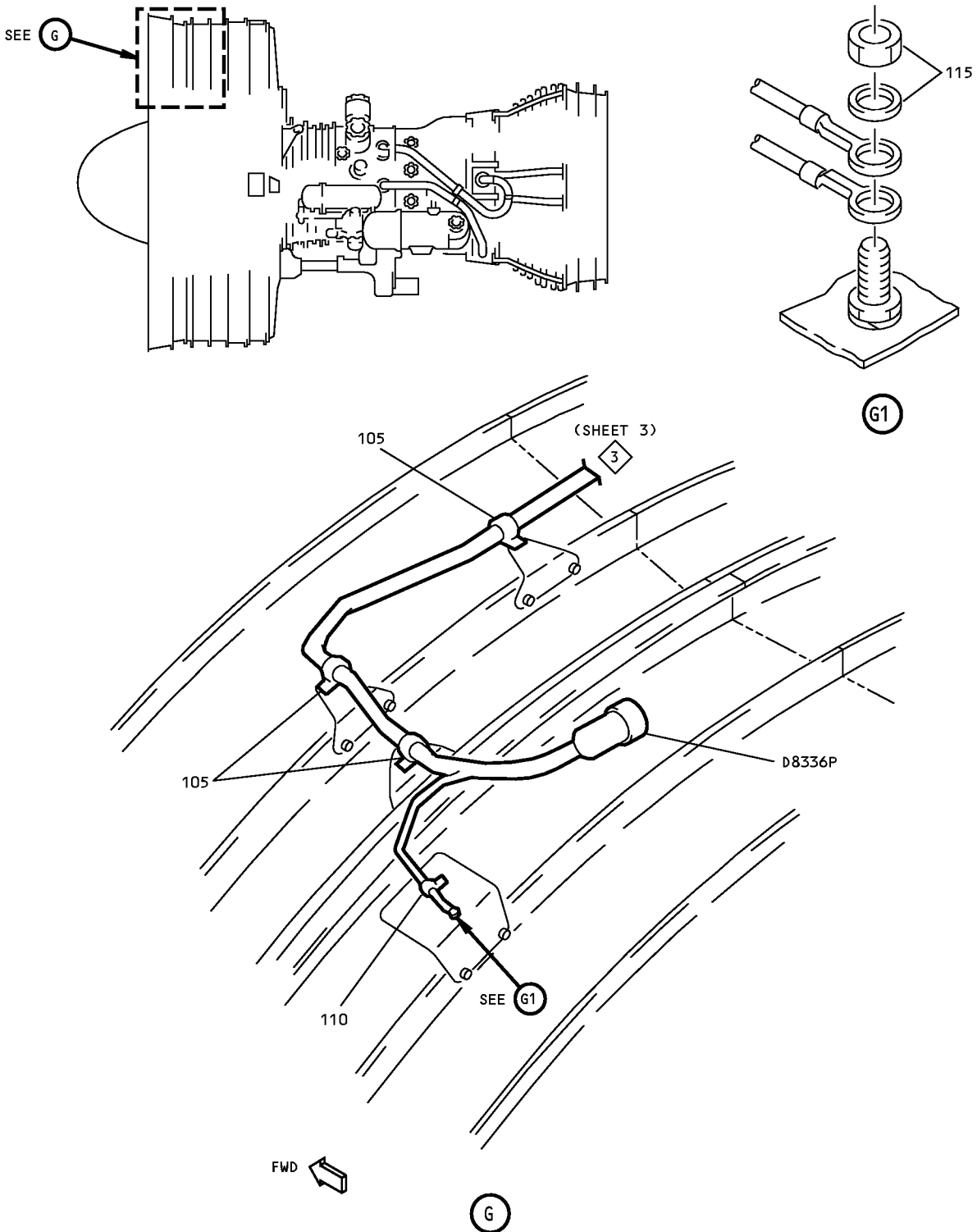
ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-4		<b>WIRE HARNESS INSTALLATION - FAN CASE (WITH SCU) (FIGURE 10-4, SHEET 7)</b>		
90	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3502 (5)/W3504 (10) TO BRACKET WITH ITEMS (90). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
95	NAS1149C0363R BACN10YR3C	INSTALL CONNECTOR DM6848A ON W/B W3502 (5)/W3504 (10) TO SUPL CONTROL UNIT. ATTACH WIRE LUG GD12512AC ON W/B W3502 (5)/W3504 (10) TO GROUND STUD WITH ITEMS (95). . WASHER . NUT		1 1
100	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3504 (10) TO BRACKET WITH ITEMS (100). . CLAMP . SCREW . WASHER . NUT INSTALL CONNECTOR DM6848B ON W/B W3504 (10) TO SUPL CONTROL UNIT.		1 1 1 1

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P/P BUILDUP FIGURE 10-4

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Wire Harness Installation - Fan Case  
(WITH SCU)  
Figure 10-4 (Sheet 8)

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P/P BUILDUP FIGURE 10-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
10-4		<b>WIRE HARNESS INSTALLATION - FAN CASE (WITH SCU) (FIGURE 10-4, SHEET 8)</b>		
105	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3504 (10) TO BRACKETS WITH ITEMS (105). . CLAMP . SCREW . WASHER . NUT		3 3 3 3
110	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3504 (10) TO BRACKET WITH ITEMS (110). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
115	NAS1149C0332R BACN10YR3C	ATTACH WIRE LUG GD6635S ON W/B W3504 (10) TO GROUND STUD WITH ITEMS (115). . WASHER . NUT		1 1

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P/P BUILDUP FIGURE 10-4

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FIGURE 11-1

# HYDRAULIC PLUMBING AND FUEL HOSE INSTALLATION

REF QEC TASK NO.: 11

REF DWG: 332T4110

332T4150

332T4800

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

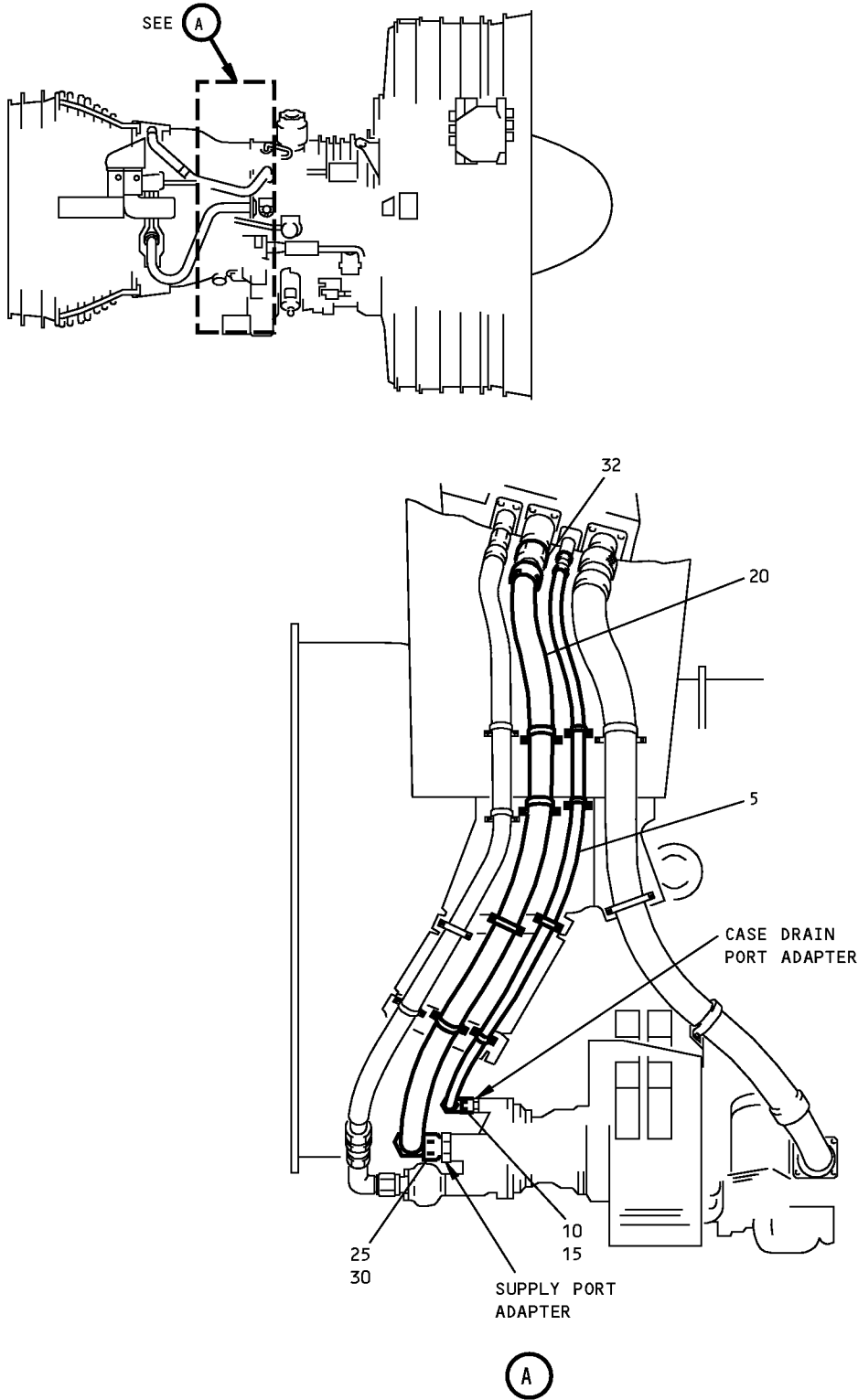
**71-00-02**

P/P BUILDUP FIGURE 11-1

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**POWERPLANT BUILDUP MANUAL**



**Hydraulic Plumbing and Fuel Hose Installation**  
**Figure 11-1 (Sheet 1)**

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P/P BUILDUP FIGURE 11-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-1		<b>HYDRAULIC PLUMBING AND FUEL HOSE INSTALLATION (FIGURE 11-1, SHEET 1)</b>		
		LUBRICATE THREADS OF CHECK VALVE (10) AND ELBOW (15) WITHfluid, D00153 (C1) OR MCS 352B fluid, D00054 (C2). POSITION HOSE ASSY (5) ON ENGINE AND SECURE WITH CHECK VALVE (10) AND ELBOW (15) TO HYDRAULIC CASE DRAIN PORT ADAPTER.		
5	AE2463533H0590	. HOSE ASSY (V00624)	VEN	1
10	BACV10CD13	. CHECK VALVE		1
10	BACV10CD3	. CHECK VALVE (REPLACED BY BACV10CD13)	LTD	-
15	BACE21BT0808JN	. ELBOW		1
15	BACE21AW0808M	. ELBOW (REPLACED BY BACE21BT0808JN)	LTD	-
C1	D00153	. FLUID	CON	AR
C2	D00054	. MCS 352B FLUID	CON	AR
		LUBRICATE THREADS OF DISCONNECT (25) AND ELBOW (30) WITHfluid, D00153 (C1) OR MCS 352B fluid, D00054 (C2).POSITION HOSE ASSY (20) ON ENGINE AND SECURE WITH DISCONNECT (25) AND ELBOW (30) TO HYDRAULIC SUPPLY PORT ADAPTER.		
20	AE1010563N0570	. HOSE ASSY (V00624)	VEN	1
25	108062-21	. DISCONNECT (V78570) (BOEING S270T230-21)	VEN	-
25	152020-1-20E	. DISCONNECT (V11362) (BOEING S270T230-21)	OPT	-
25	S270T230-21	. DISCONNECT		1
30	BACE21BT2020JN	. ELBOW		1
30	BACE21AW2020M	. ELBOW (REPLACED BY BACE21BT2020JN)	LTD	-
32	AE81565N	. COUPLER, DISCONNECT (V00624) (BOEING S270T202-1)	VEN	-
32	S270T202-1	. COUPLER, DISCONNECT		1
C1	D00153	. FLUID	CON	AR
C2	D00054	. MCS 352B FLUID	CON	AR

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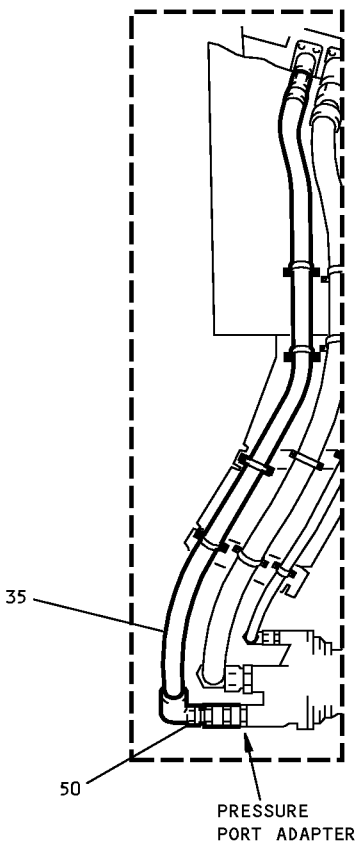
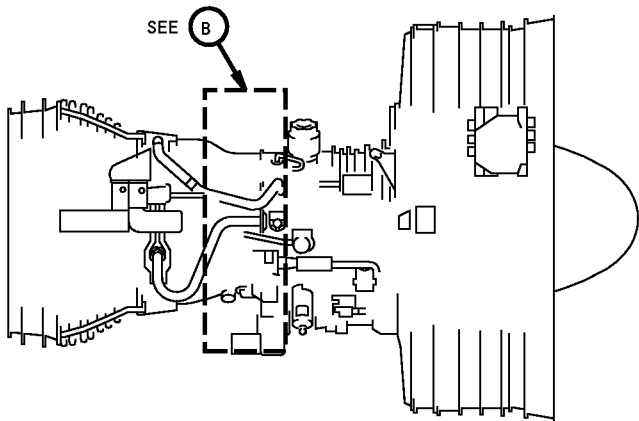
P/P BUILDUP FIGURE 11-1

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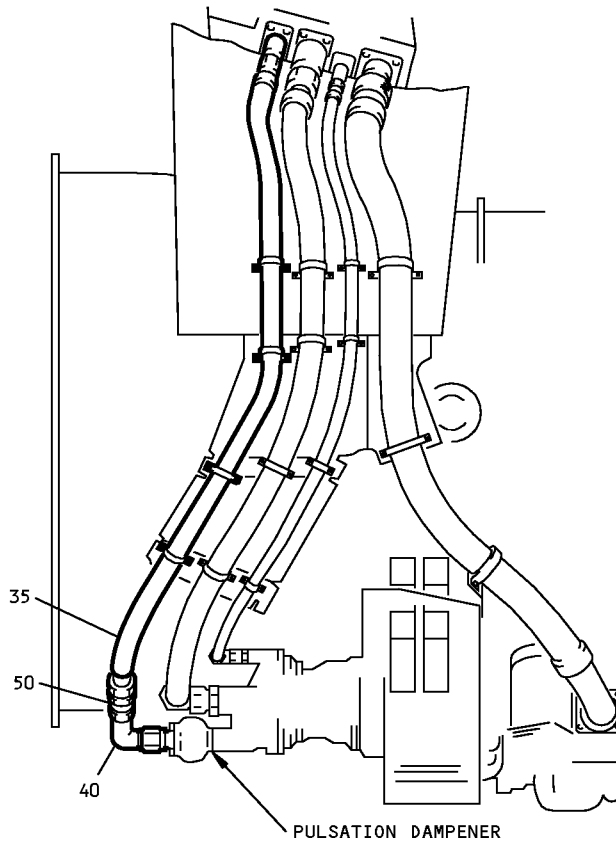
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**POWERPLANT BUILDUP MANUAL**



ENGINES WITHOUT PULSATION DAMPENER  
CONFIG A



ENGINES WITH PULSATION DAMPENER  
CONFIG B

B

**Hydraulic Plumbing and Fuel Hose Installation**  
Figure 11-1 (Sheet 2)

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P/P BUILDUP FIGURE 11-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-1		<b>HYDRAULIC PLUMBING AND FUEL HOSE INSTALLATION (FIGURE 11-1, SHEET 2)</b>  LUBRICATE THREADS OF CHECK VALVE (50) AND ELBOW (40) WITH fluid, D00153 (C1) OR MCS 352B fluid, D00054 (C2).  POSITION HOSE ASSY (35) ON ENGINE AND SECURE WITH ELBOW (40) AND CHECK VALVE (50) TO HYDRAULIC PRESSURE PORT PULSATION DAMPENER.		
35	AE1010743M0607	. HOSE ASSY (V00624) <sup>[B]</sup>	VEN	1
35	AE1010745M0645	. HOSE ASSY (V00624) (QTY 1) <sup>[A]</sup>	LTD	-
40	BACE21BT1216JN	. ELBOW <sup>[B]</sup>		1
40	NAS1762J1216	. ELBOW (OPTIONAL TO BACE21BT1216JN) <sup>[B]</sup>	OPT	-
40	BACE21AW1216JM	. ELBOW (OPTIONAL TO BACE21BT1216JN) <sup>[B]</sup>	OPT	-
40	BACE21AW1216JN	. ELBOW (REPLACED BY BACE21BT1216JN) <sup>[B]</sup>	LTD	-
50	9R3324	. CHECK VALVE (V99240) (BOEING S270T252-7)	VEN	-
50	S270T252-7	. CHECK VALVE		1
C1	D00153	. FLUID	CON	AR
C2	D00054	. MCS 352B FLUID	CON	AR

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P/P BUILDUP FIGURE 11-1

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P/P BUILDUP FIGURE 11-1

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ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-1		HYDRAULIC PLUMBING AND FUEL HOSE INSTALLATION (FIGURE 11-1, SHEET 3)  THIS SHEET NOT USED		

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P/P BUILDUP FIGURE 11-1

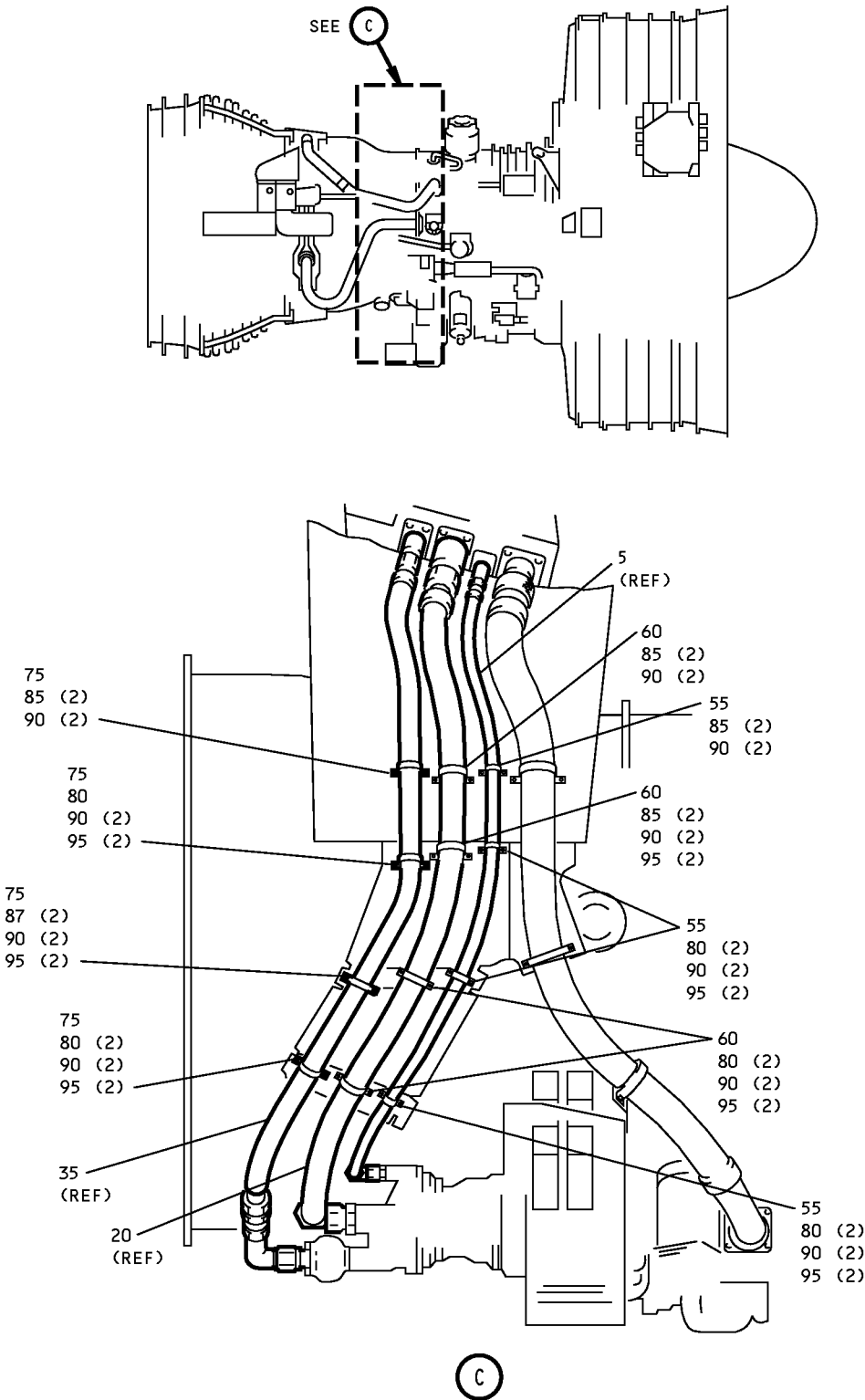
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**POWERPLANT BUILDUP MANUAL**



**Hydraulic Plumbing and Fuel Hose Installation**  
**Figure 11-1 (Sheet 4)**

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P/P BUILDUP FIGURE 11-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-1		<p><b>HYDRAULIC PLUMBING AND FUEL HOSE INSTALLATION (FIGURE 11-1, SHEET 4)</b></p> <p>SECURE HOSE ASSYS (5, 20, 35) TO BRACKET USING FASTENERS (55 THRU 95).</p>		
55	TA0910058-14	. CLAMP (V84971)	VEN	4
55	BACC10HT14	. CLAMP (REPLACED BY TA0910058-14)	LTD	-
60	TA0910058-28	. CLAMP (V84971)	VEN	4
60	BACC10HT28	. CLAMP (REPLACED BY TA0910058-28)	LTD	-
75	TA0910058-24	. CLAMP (V84971)	VEN	4
75	BACC10HT24	. CLAMP (REPLACED BY TA0910058-24)	LTD	-
90	NAS1149C0332R	. WASHER		24
95	BACN10YR3C	. NUT		18
		<p><b>CAUTION:</b> USE TWO WRENCHES WHEN YOU LOOSEN OR TIGHTEN THE CONNECTION. ONE WRENCH WILL HOLD ONE SIDE OF THE CONNECTION IN ITS POSITION. ONE WRENCH WILL TURN THE OTHER SIDE OF THE CONNECTION. IF YOU DO NOT OBEY THIS TWO-WRENCH PROCEDURE, YOU CAN CAUSE DAMAGE TO THE CONNECTION COMPONENTS.</p> <p>TIGHTEN HOSE ASSY (5), CHECK VALVE (10), AND ELBOW (15) TO 266-294 LB-IN.</p> <p>TIGHTEN HOSE ASSY (20) AND FITTINGS (25 THRU 30) TO 855-945 LB-IN.</p> <p>TIGHTEN HOSE ASSY (35) AND CHECK VALVE (50) TO 713-787 LB-IN.</p> <p><u>ON ENGINES WITH PULSATION DAMPENER</u></p> <p>TIGHTEN ELBOW (40) TO 428-472 LB-IN.</p>		

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P/P BUILDUP FIGURE 11-1

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**Hydraulic Plumbing and Fuel Hose Installation  
Figure 11-1 (Sheet 5)**

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P/P BUILDUP FIGURE 11-1

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**POWERPLANT BUILDUP MANUAL**

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-1		HYDRAULIC PLUMBING AND FUEL HOSE INSTALLATION (FIGURE 11-1, SHEET 5)  THIS SHEET NOT USED		

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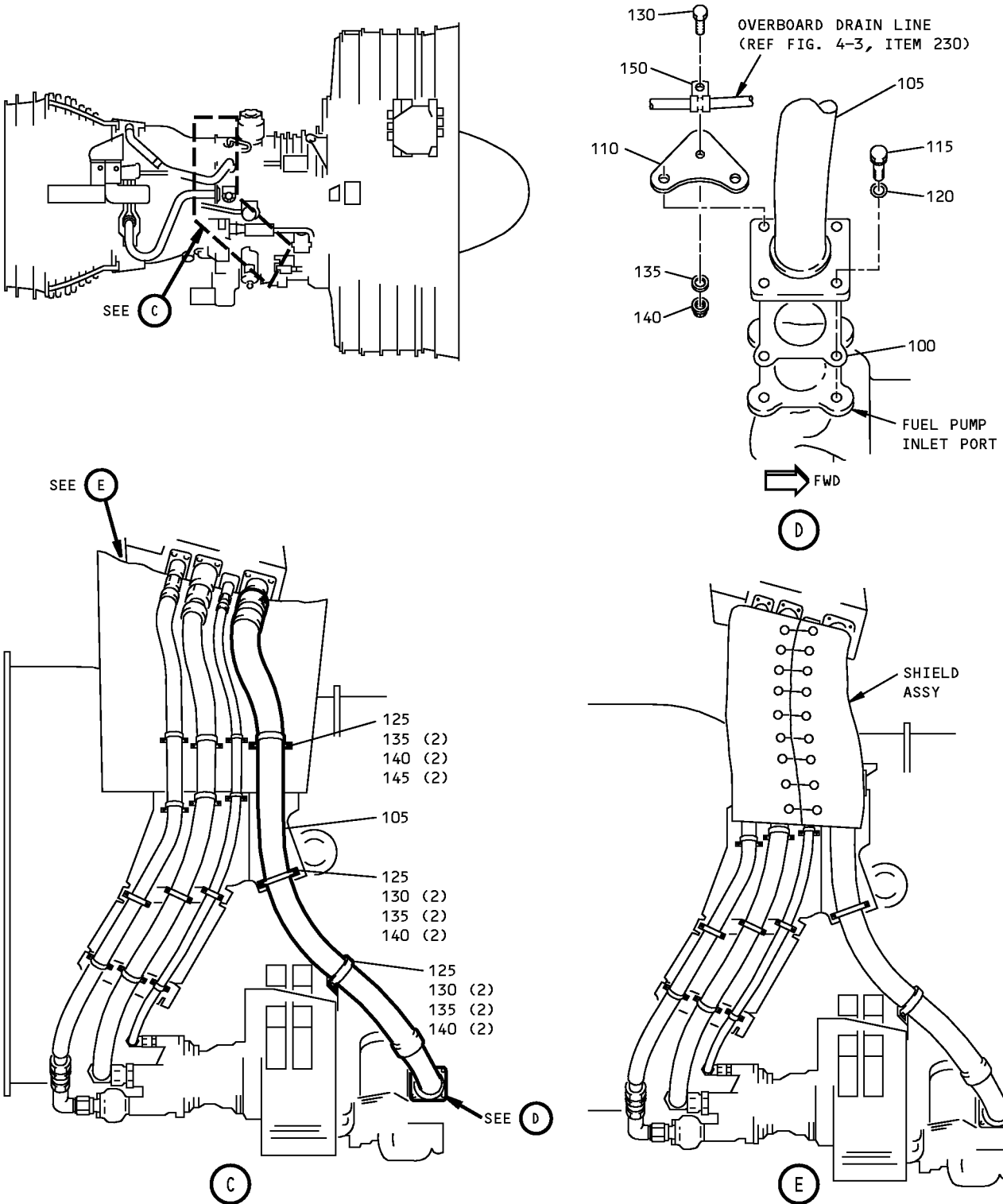
P/P BUILDUP FIGURE 11-1

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**POWERPLANT BUILDUP MANUAL**



**Hydraulic Plumbing and Fuel Hose Installation  
Figure 11-1 (Sheet 6)**

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P/P BUILDUP FIGURE 11-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-1		<b>HYDRAULIC PLUMBING AND FUEL HOSE INSTALLATION (FIGURE 11-1, SHEET 6)</b>		
		LUBRICATE GASKET (100) WITH ENGINE oil, D00109 (C1) OR oil, D00068 (C2). INSTALL GASKET (100), HOSE ASSY (105), AND BRACKET (110) ON FUEL PUMP INLET PORT USING ITEMS (115, 120). SECURE WITH lockwire, G01048 (C3).		
100	BACG10AD32YC	. GASKET		1
105	AE706825-15	. HOSE ASSY (V00624) (BOEING S332U280-15)	VEN	-
105	S332U280-15	. HOSE ASSY		1
105	AE706825-5	. HOSE ASSY (V00624) (BOEING S332U280-5)	VEN	-
105	S332U280-5	. HOSE ASSY (REPLACED BY S332U280-15)	LTD	-
110	332T4922-307	. BRACKET		1
115	BACB30LM5H6	. BOLT		4
120	NAS1149C0563R	. WASHER		4
C1	D00109	. OIL	CON	AR
C2	D00068	. OIL	CON	AR
C3	G01048	. LOCKWIRE	CON	AR
		SECURE HOSE ASSYS (105) TO BRACKETS USING ITEMS (125 THRU 150).		
125	TA0910058-40	. CLAMP (V84971)	VEN	3
125	BACC10HT40	. CLAMP (REPLACED BY TA0910058-40)	LTD	-
130	BACS12HN3U8	. SCREW		5
135	NAS1149C0332R	. WASHER		7
140	BACN10YR3C	. NUT		7
145	BACS12HN3U10	. SCREW		2
150	BACC10HS06	. CLAMP		1
		CLOSE SHIELD ASSY AROUND HOSES AND SECURE WITH lockwire, G01048 (C3).		
C3	G01048	. LOCKWIRE	CON	AR

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P/P BUILDUP FIGURE 11-1

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**FIGURE 11-2**

**WIRE HARNESS INSTALLATION - CORE CASE**  
(KIDDE FIRE DETECTORS)

**REF QEC TASK NO.: 11**

**REF DWG: 332T4240**  
**332T4250**

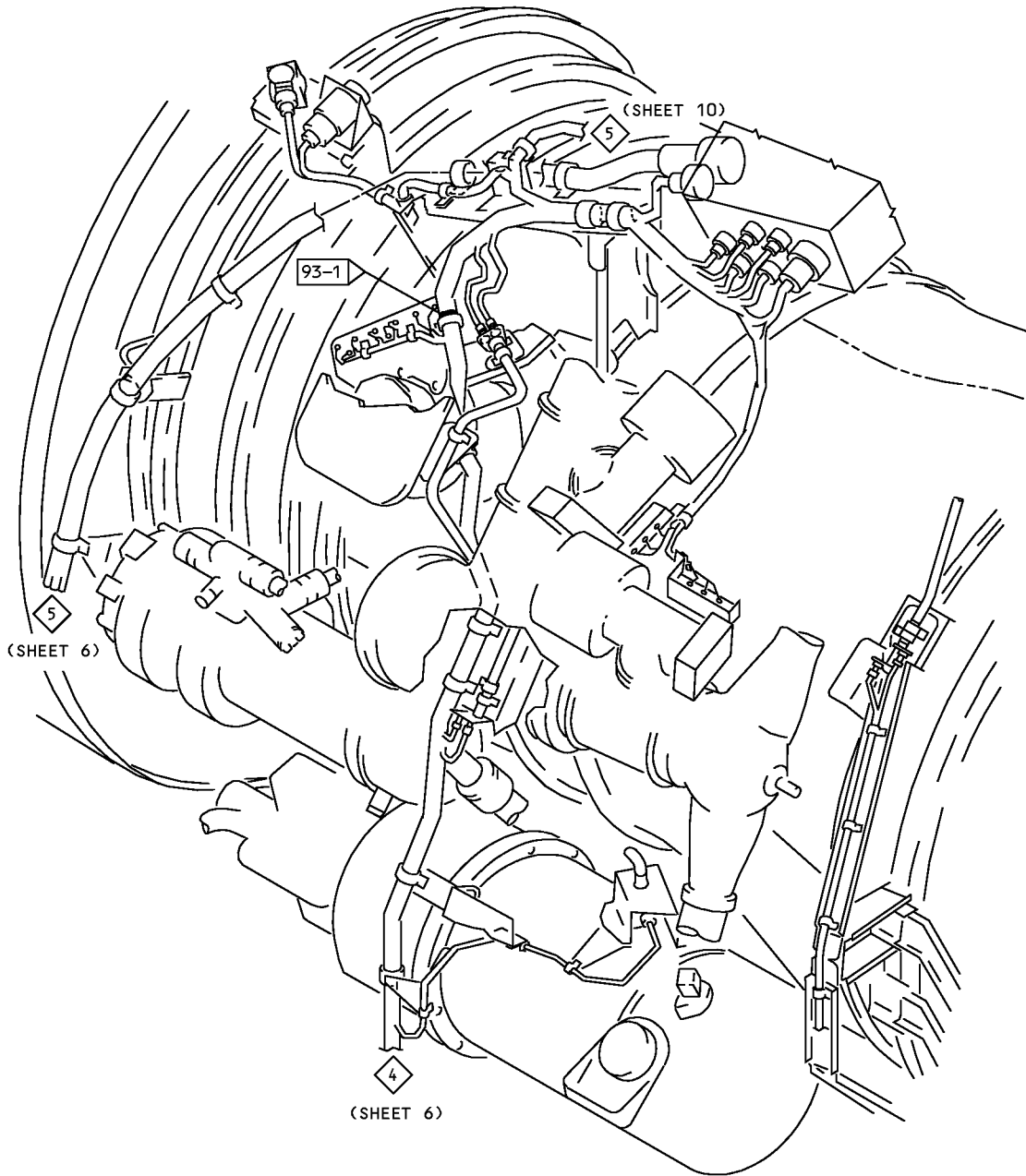
**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

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P/P BUILDUP FIGURE 11-2

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 INDICATES INSTALLATION REFERENCE POINT WHICH IS WRAPPED WITH GREEN OR RED TAPE AROUND BUNDLE

 DIAMOND WITH NUMBER INDICATES A CONTINUATION TO A DIAMOND WITH THE SAME NUMBER IN ANOTHER SHEET OR ILLUSTRATION

**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 1)**

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P/P BUILDUP FIGURE 11-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<p><b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS)</b>  <b>(FIGURE 11-2, SHEET 1)</b></p> <p>THE FOLLOWING IS A LIST OF WIRE BUNDLES ON THE ENGINE CORE CASE.</p>		
10	286T3506	. WIRE BUNDLE ASSY (W3506)		1
15	286T3508	. WIRE BUNDLE ASSY (W3508)		1
20	286T3510	. WIRE BUNDLE ASSY (W3510)		1
25	286T3512	. WIRE BUNDLE ASSY (W3512)		1
30	286T3514	. WIRE BUNDLE ASSY (W3514)		1
35	286T3516	. WIRE BUNDLE ASSY (W3516)		1
40	286T3520	. WIRE BUNDLE ASSY (W3520)		1
45	286T3522	. WIRE BUNDLE ASSY (W3522)		1
50	286T3538	. WIRE BUNDLE ASSY (W3538)		1
		<p>REVIEW ELECTRICAL HARNESS STANDARD PRACTICES (INTRODUCTION), BEFORE BEGINNING INSTALLATION.</p> <p>SYMBOLS TO AID IN THE USE OF THESE ILLUSTRATIONS ARE SHOWN ON THE PRECEDING PAGE.</p>		

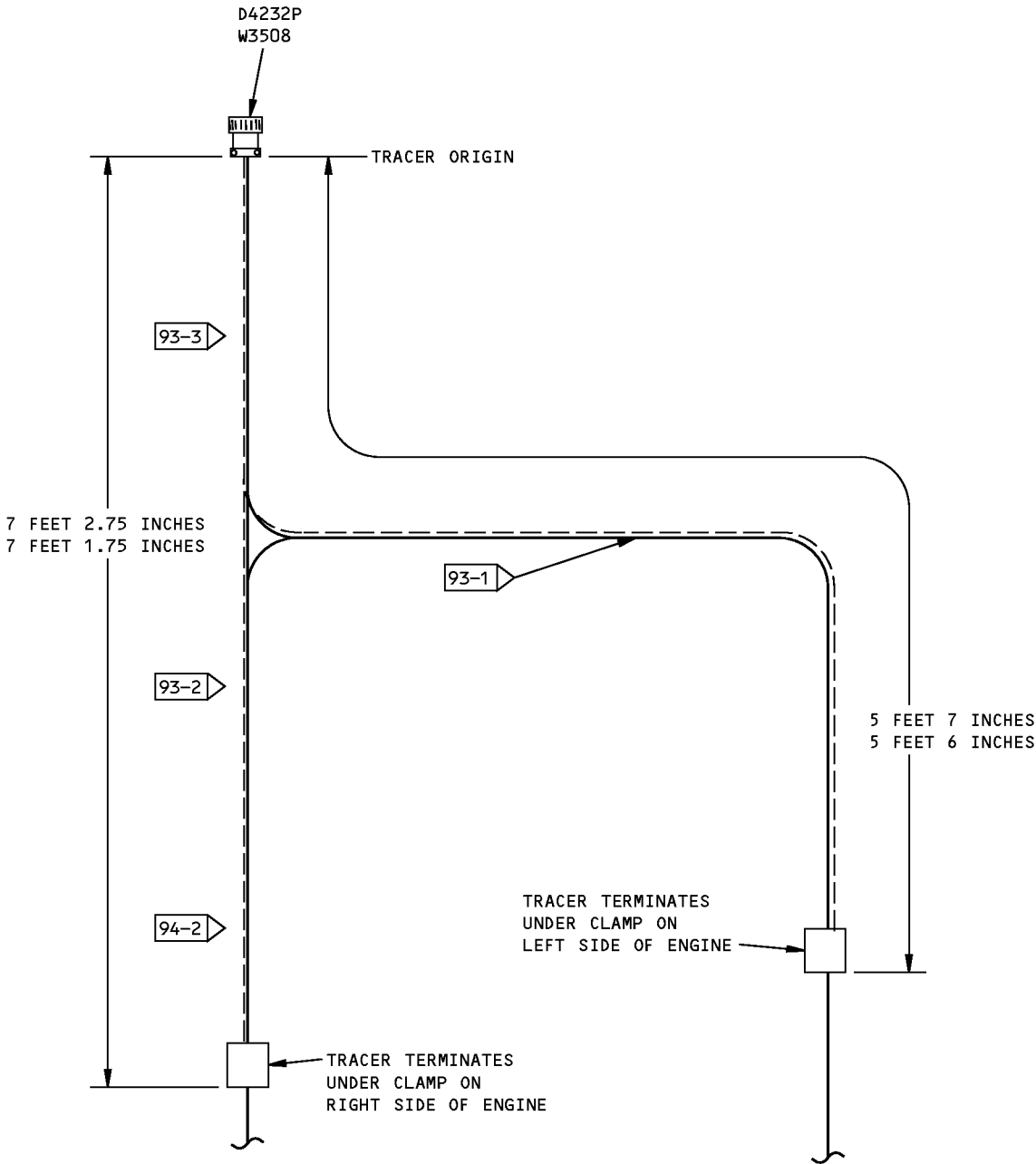
**71-00-02**

P/P BUILDUP FIGURE 11-2

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POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 2)**

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P/P BUILDUP FIGURE 11-2  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
53	332T4240-7	<p><b>11-2</b></p> <p><b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS)</b>  <b>(FIGURE 11-2, SHEET 2)</b></p> <p><u>OPTIONAL WIRE BUNDLE ORIENTATION;</u></p> <p>THE RED TRACER IS USED TO ORIENT THE UPPER LEFT AND RIGHT WIRE BUNDLE ASSYS ON THE ENGINE. ALIGN PINK MARKER ON WIRE BUNDLE ASSY (REFERENCE POINT 93-1) WITH PLACARD ON BRACKET. INSTALL RED TRACER IN WIRE BUNDLE ASSYS ON UPPER LEFT AND RIGHT SIDE ON ENGINE. ORIENT WIRE BUNDLE ASSYS SO THAT RED TRACER FACES OUTBOARD (AWAY FROM ENGINE CENTERLINE).</p> <p>. TRACER</p>		1

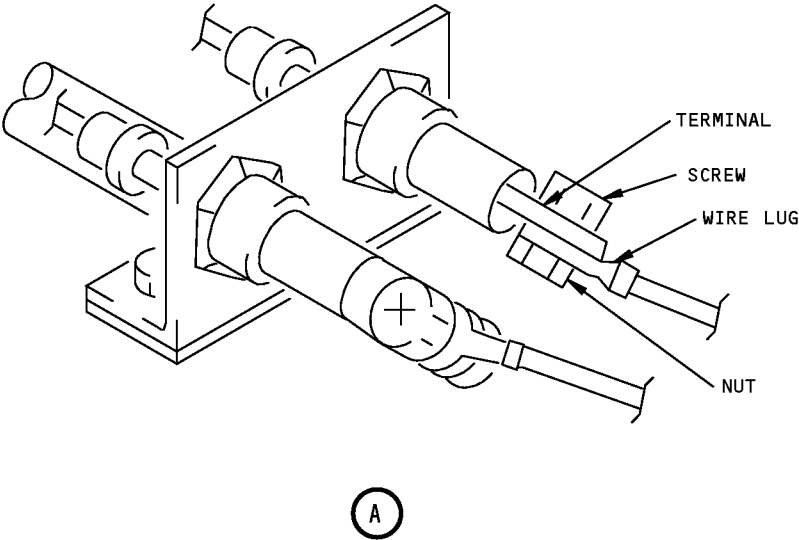
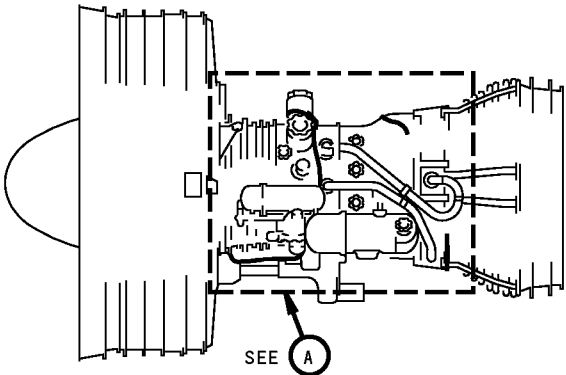
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P/P BUILDUP FIGURE 11-2

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POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 3)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<p><b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS)</b>  <b>(FIGURE 11-2, SHEET 3)</b></p> <p>WHEN ATTACHING WIRE HARNESS TO FIRE DETECTOR, DO NOT PRELOAD OR BEND WIRE LUG. ORIENT WIRE LUG WITH CENTER LINE OF TERMINAL LUG. ROTATE WIRE LUG TOWARDS WIRE SUPPORT. HOLD WIRE LUG WHILE TIGHTENING NUT TO PREVENT LUG ROTATION.</p>		

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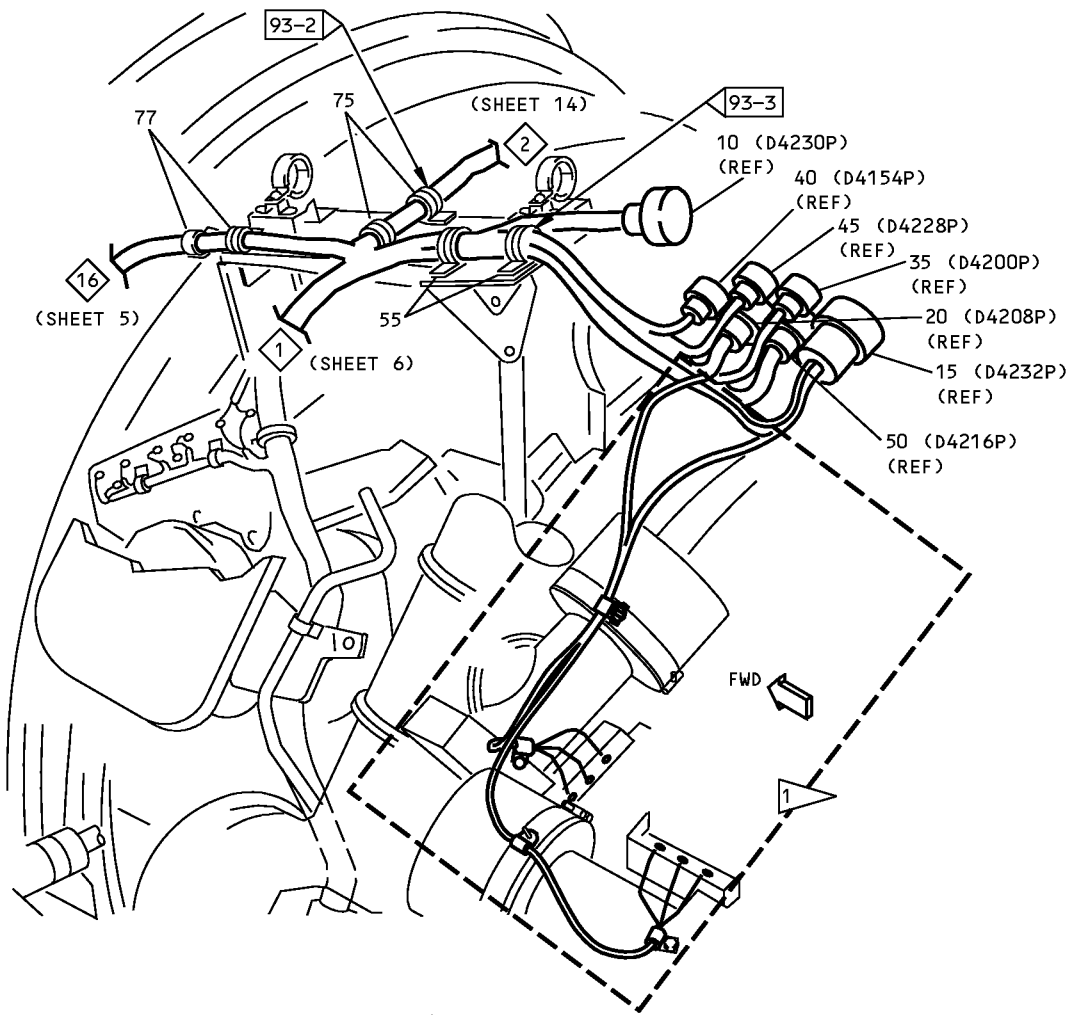
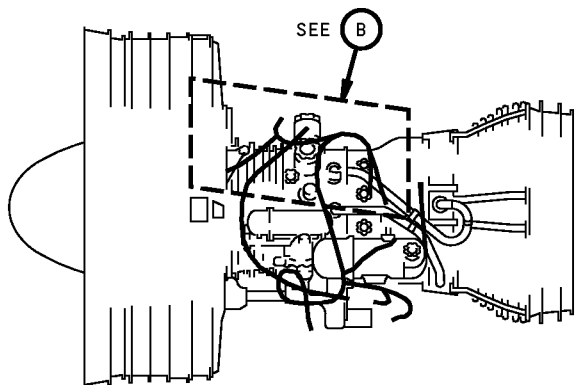
P/P BUILDUP FIGURE 11-2

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POWERPLANT BUILDUP MANUAL



1 REFER TO FIGURE 12-3 FOR INSTALLATION

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Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 4)

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P/P BUILDUP FIGURE 11-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 4)</b>  PUT W/B'S W3506 (10)/W3508 (15)/W3510 (20)/ W3516 (35)/W3522 (45)/ W3538 (50) DOWN LEFT SIDE OF CORE CASE. ATTACH W/B'S TO BRACKET WITH ITEMS (55).		
55	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	. CLAMP . SCREW . WASHER . NUT		2 2 2 2
75	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S TO BRACKET WITH ITEMS (75). . CLAMP . SCREW . WASHER . NUT		2 2 2 2
77	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3508 (15)/W3510 (20) TO BRACKET WITH ITEMS (77). . CLAMP . SCREW . WASHER . NUT		2 2 2 2

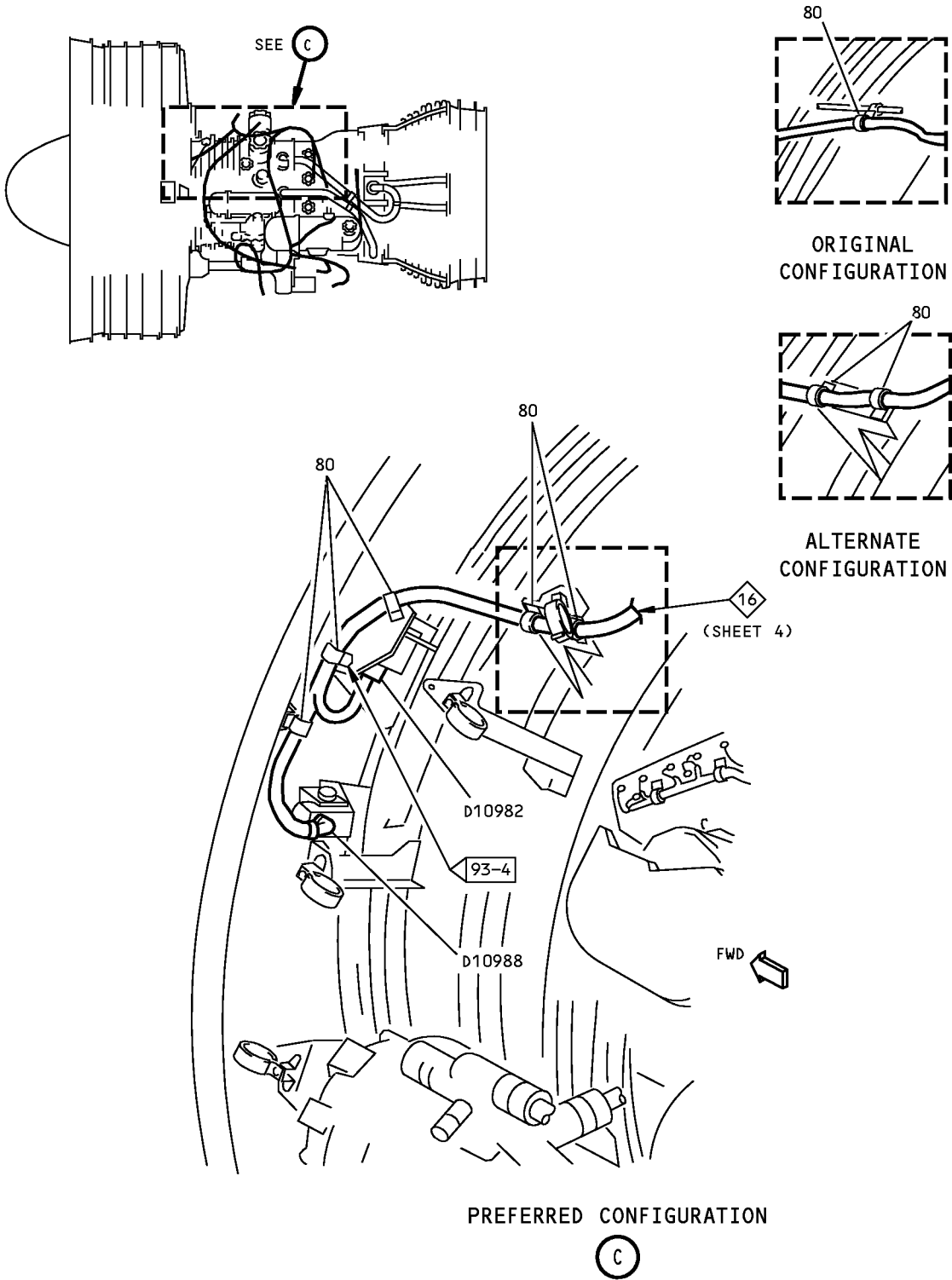
**71-00-02**

P/P BUILDUP FIGURE 11-2

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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 5)**

**71-00-02**

P/P BUILDUP FIGURE 11-2

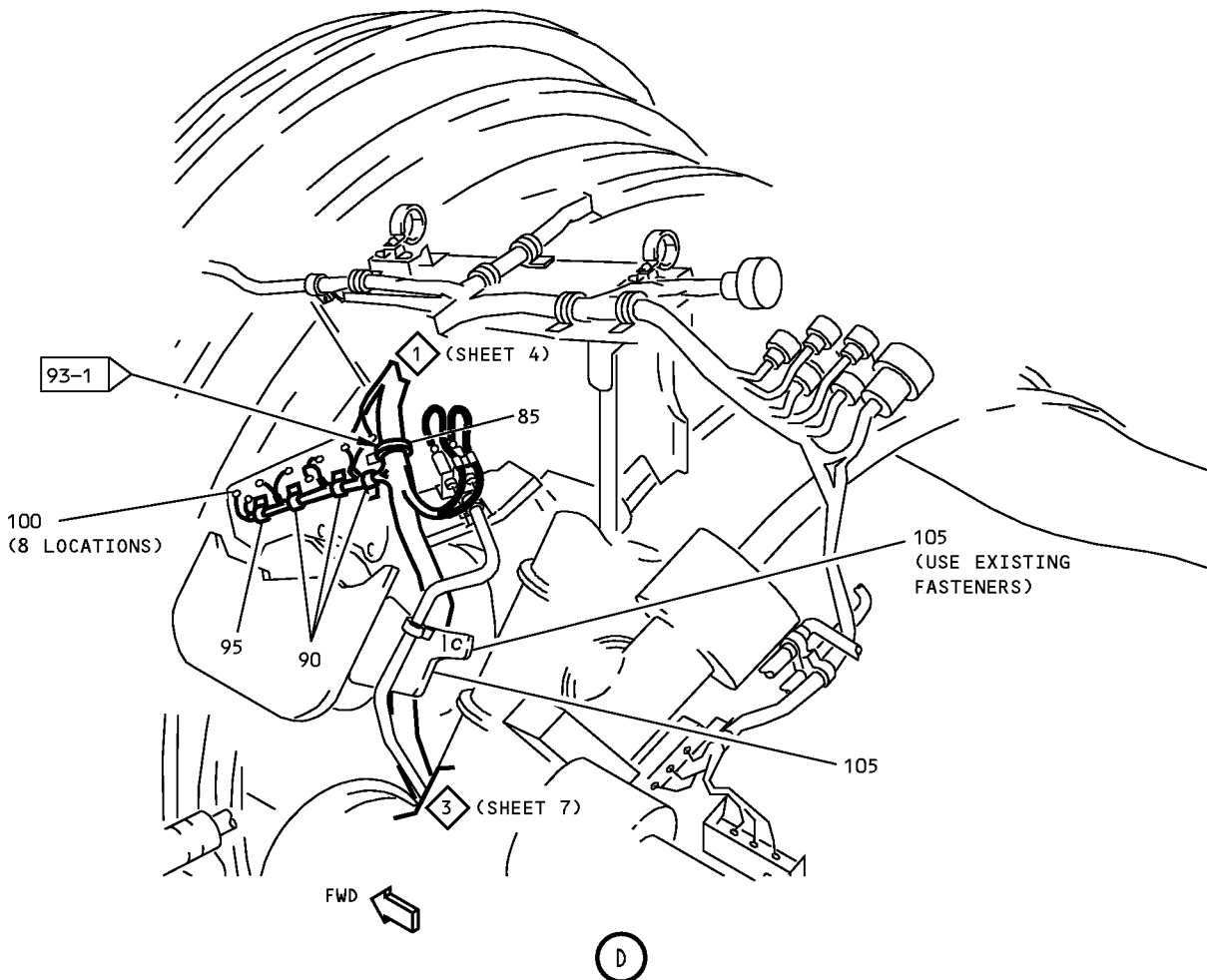
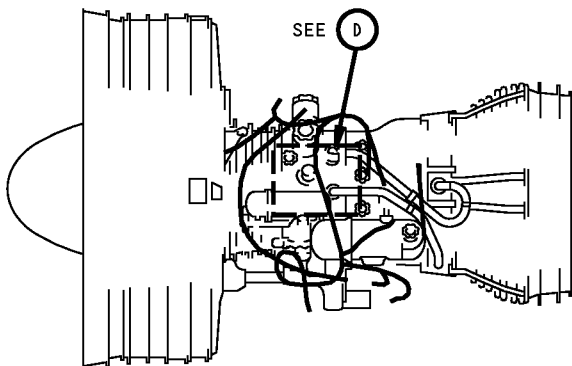
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<p><b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS)</b>  <b>(FIGURE 11-2, SHEET 5)</b></p> <p><u>PREFERRED AND ALTERNATE CONFIGURATIONS;</u></p> <p>ATTACH W/B'S W3508 (15)/W3510 (20) TO BRACKET WITH ITEMS (80).</p> <p>. CLAMP                      . SCREW                      . WASHER                      . NUT</p> <p>INSTALL CONNECTOR D10982 ON W/B W3508 (15) TO OIL PRESS XMTR AND CONNECTOR D10988 ON W/B W3510 (20) TO LO OIL PRSS SW.</p> <p><u>ORIGINAL CONFIGURATION;</u></p> <p>ATTACH W/B'S W3508 (15)/W3510 (20) TO BRACKET WITH ITEMS (80).</p> <p>. CLAMP (QTY 4)                      . SCREW (QTY 4)                      . WASHER (QTY 4)                      . NUT (QTY 4)</p>		
80	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C			5 5 5 5
80	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C		LTD LTD LTD LTD	- - - -



**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 6)**

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P/P BUILDUP FIGURE 11-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 6)</b>		
85	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3506 (10)/W3508 (15)/W3510 (20)/ W3516 (35)/W3522 (45)/W3538 (50) TO BRACKET WITH ITEMS (85). . CLAMP . SCREW . WASHER . NUT  TIGHTEN NO. 8 NUT TO 20-25 LB-IN AND NO. 10 NUT TO 30-35 LB-IN.		1 1 1 1
90	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3506 (10)/W3508 (15)/W3510 (20) TO BRACKET WITH ITEMS (90). . CLAMP . SCREW . WASHER . NUT		3 3 3 3
95	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3506 (10)/W3508 (15)/W3510 (20) TO BRACKET WITH ITEMS (95). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
100	NAS1149C0363R BACN10YR3C	ATTACH GROUND STUDS GD6659S/GD6633S/GD6597DC/ GD6529S/ GD6595DC/GD6617S/GD6585DC/GD6591DC TO BRACKET WITH ITEMS (100). . WASHER . NUT		8 8
105	TA025041-( )	ATTACH W/B'S W3506 (10)/W3508 (15)/W3510 (20)/ W3516 (35)/W3522 (45)/W3538 (50) TO BRACKET WITH ITEM (105) AND EXISTING FASTENERS. . CLAMP		2

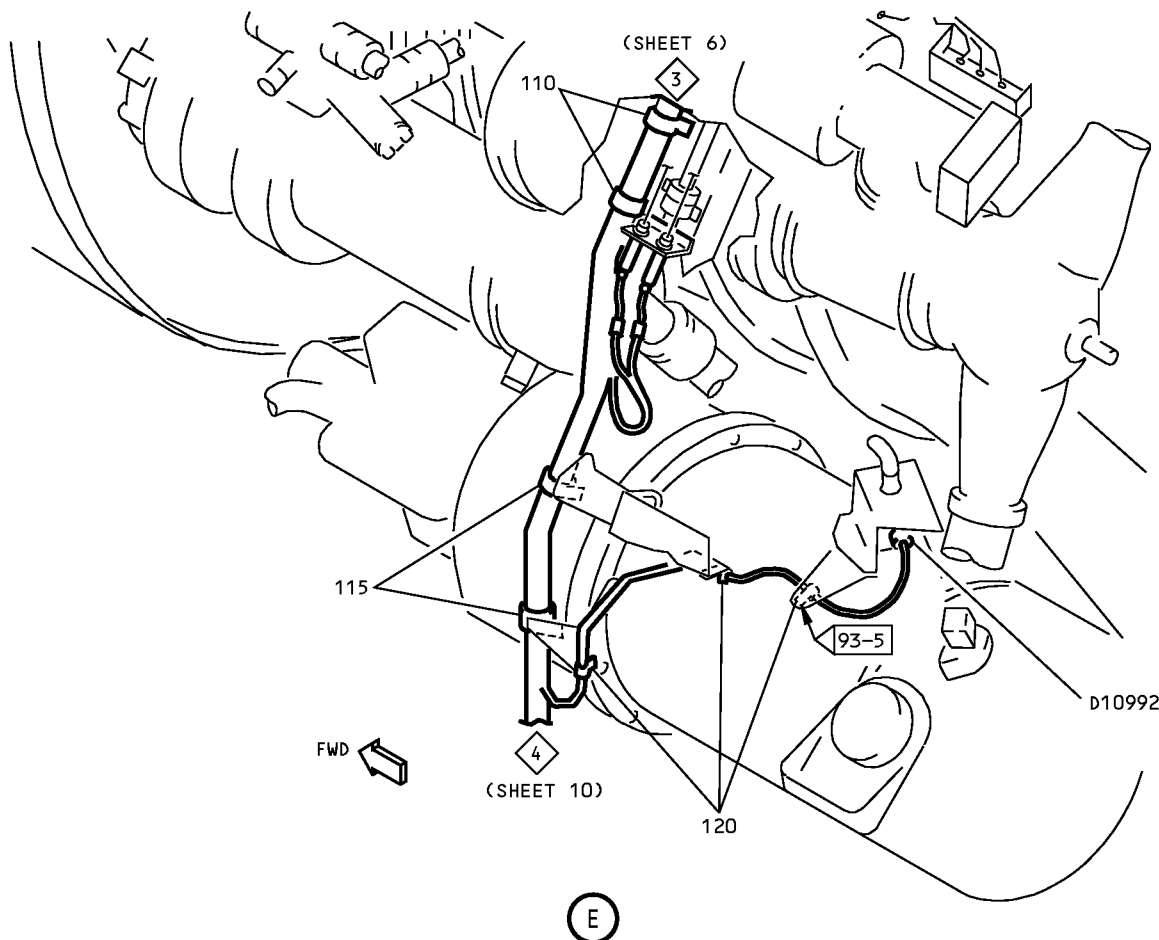
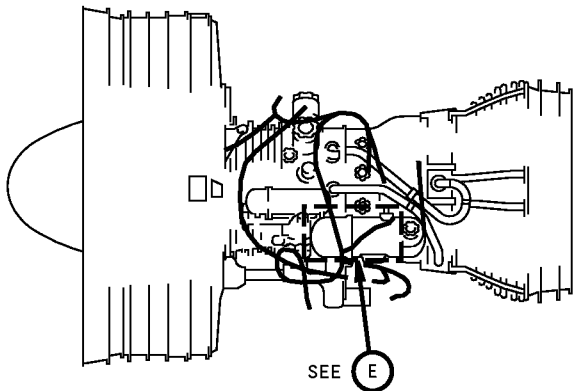
**71-00-02**

P/P BUILDUP FIGURE 11-2

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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 7)**

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P/P BUILDUP FIGURE 11-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 7)</b>		
110	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3506 (10)/W3508 (15)/W3510 (20)/ W3516 (35)/W3522 (45)/W3538 (50) TO BRACKET WITH ITEMS (110). . CLAMP . SCREW . WASHER . NUT  TIGHTEN NO. 8 NUT TO 20-25 LB-IN AND NO. 10 NUT TO 30-35.		2 2 2 2
115	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3506 (10)/W3508 (15)/W3510 (20)/ W3516 (35)/W3522 (45)/W3538 (50) TO BRACKETS WITH ITEMS (115). . CLAMP . SCREW . WASHER . NUT		2 2 2 2
120	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3510 (20) TO BRACKETS WITH ITEMS (120). . CLAMP . SCREW . WASHER . NUT  INSTALL CONNECTOR D10992 ON W/B W3510 (20) TO OIL QTY XMTR.		3 3 3 3

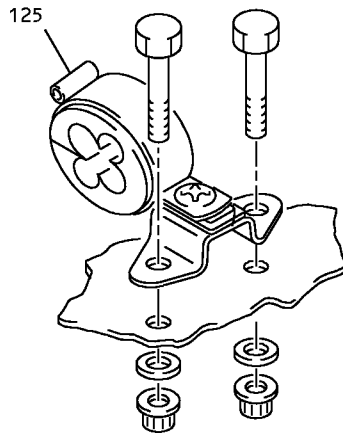
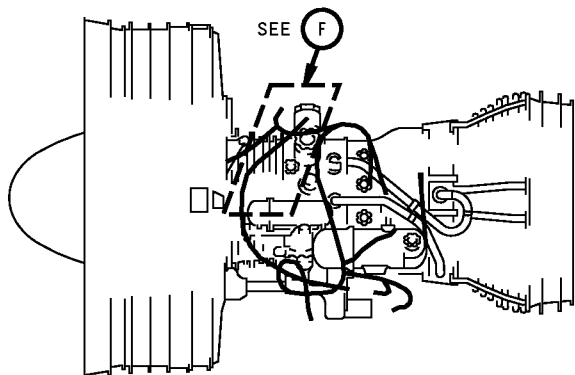
**71-00-02**

P/P BUILDUP FIGURE 11-2

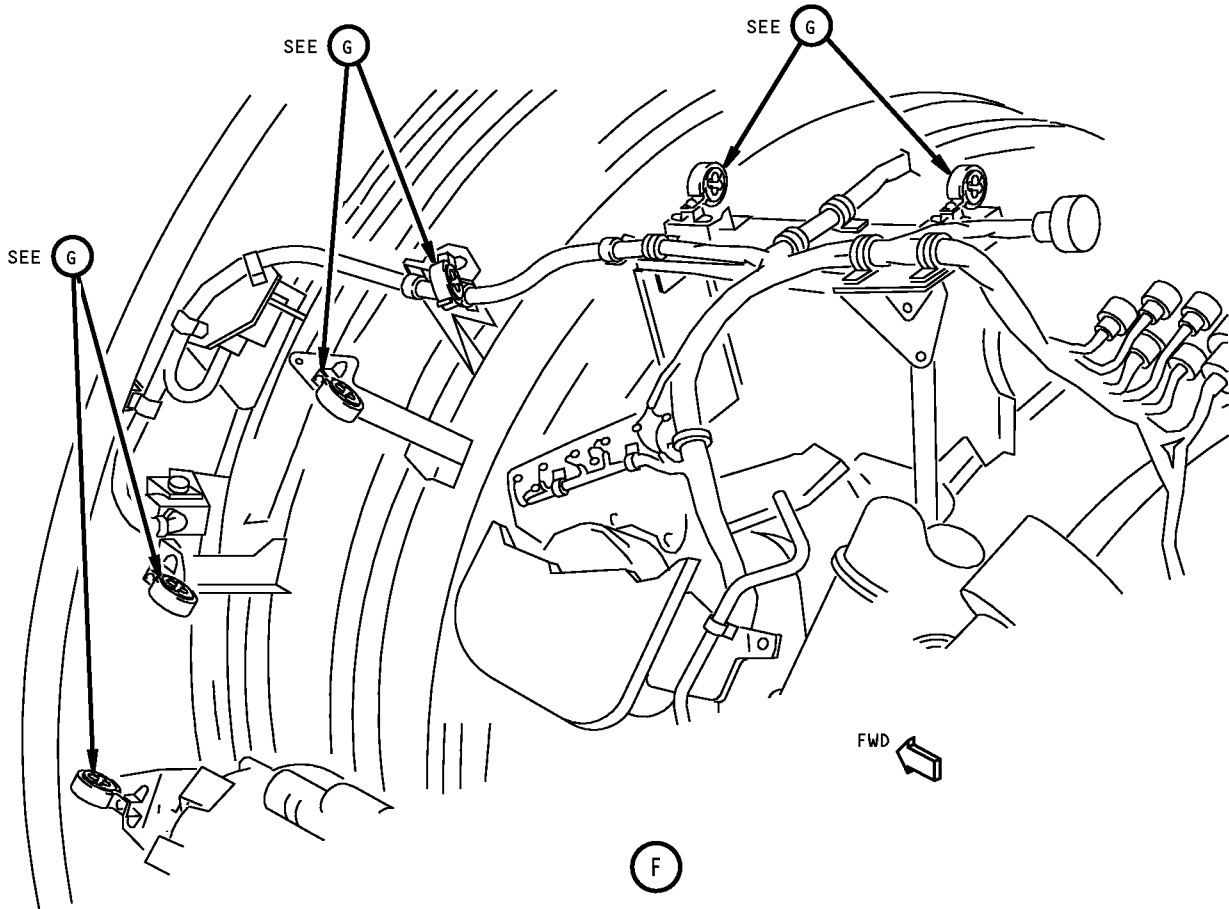
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**POWERPLANT BUILDUP MANUAL**



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**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 8)**

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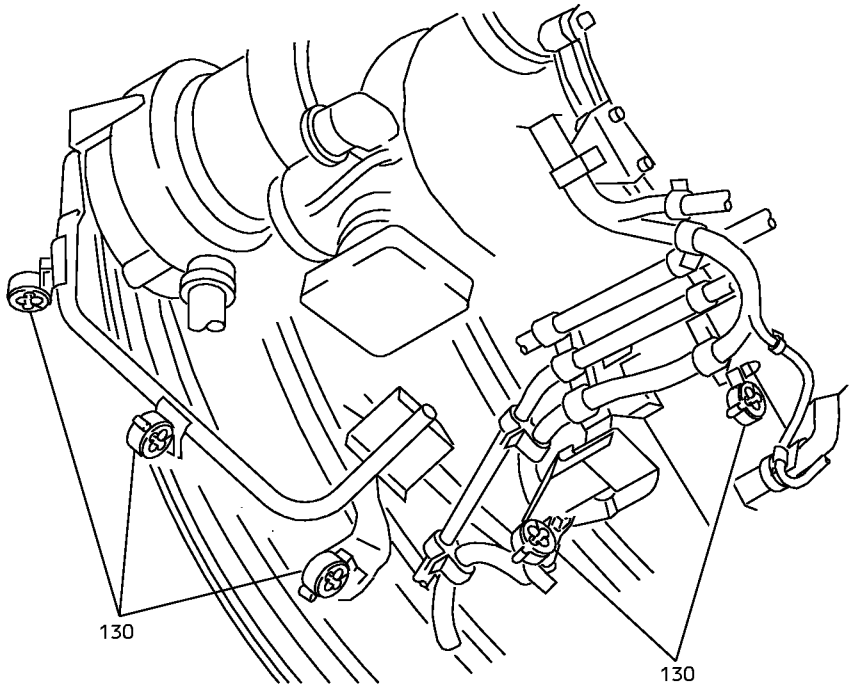
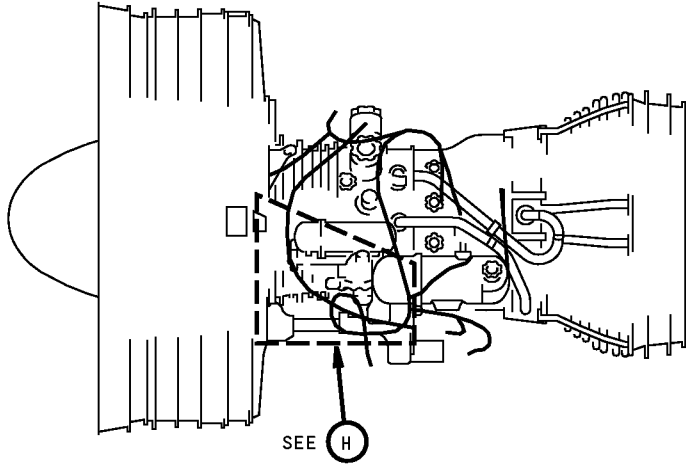
P/P BUILDUP FIGURE 11-2

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POWERPLANT BUILDUP MANUAL**



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**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 9)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 9)</b>  ATTACH ITEMS (130) TO SUPPORT TUBE.		
130	BACS12HN3U8 NAS1149C0332R BACN10YR3C	. SCREW . WASHER . NUT		10 10 10

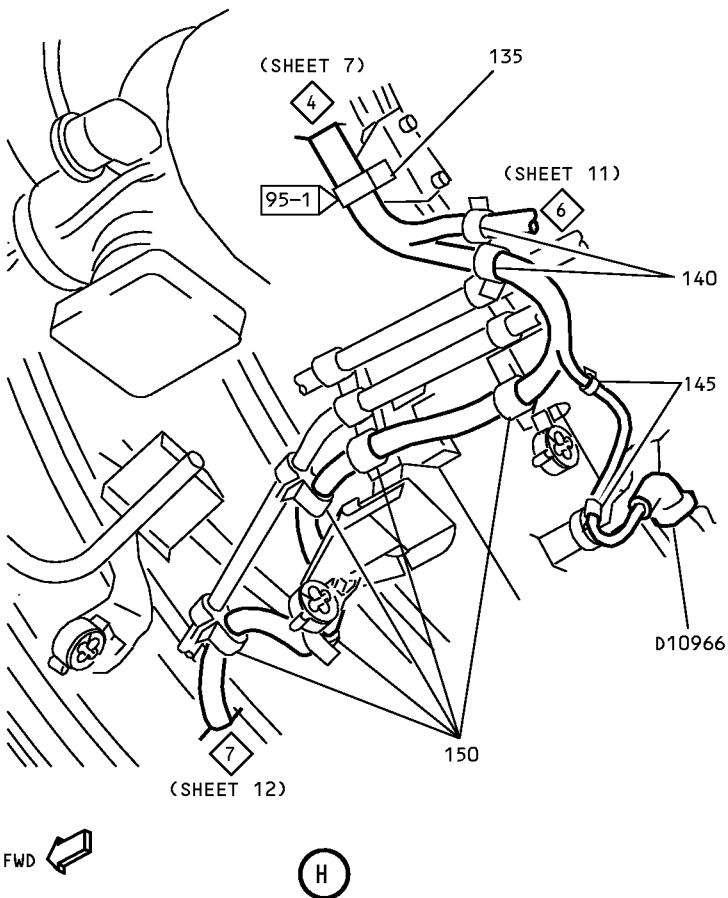
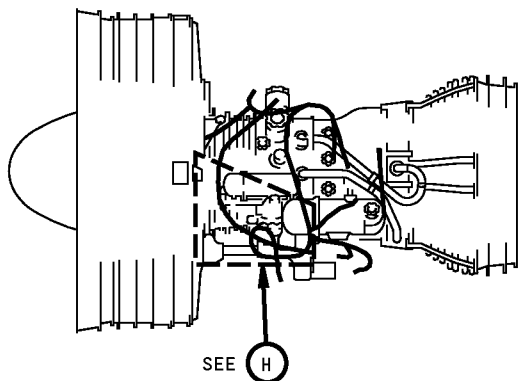
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P/P BUILDUP FIGURE 11-2

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**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 10)**

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P/P BUILDUP FIGURE 11-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 10)</b>		
		ATTACH W/B'S W3506 (10)/W3510 (20)/W3516 (35)/ W3522 (45)/W3538 (50) TO BRACKET WITH ITEMS (135).		
135	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	. CLAMP . SCREW . WASHER . NUT		1 1 1 1
		ATTACH W/B'S W3506 (10)/W3510 (20)/W3516 (35)/ W3522 (45)/W3538 (50) TO BRACKET WITH ITEMS (140).		
140	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	. CLAMP . SCREW . WASHER . NUT		2 2 2 2
		ATTACH W/B W3538 (50) TO BRACKETS WITH ITEMS (145).		
145	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	. CLAMP . SCREW . WASHER . NUT		2 2 2 2
		INSTALL CONNECTOR D10966 ON W/B W3538 (50) TO IDG.		
		ATTACH W/B'S W3506 (10)/W3508 (15)/W3510 (20)/ W3516 (35)/W3522 (45) TO SUPPORT TUBE WITH ITEMS (150).		
150	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	. CLAMP . SCREW . WASHER . NUT		5 5 5 5

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P/P BUILDUP FIGURE 11-2

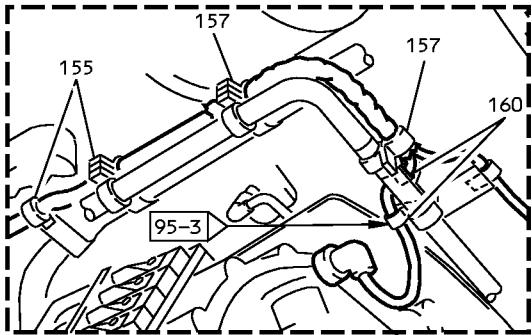
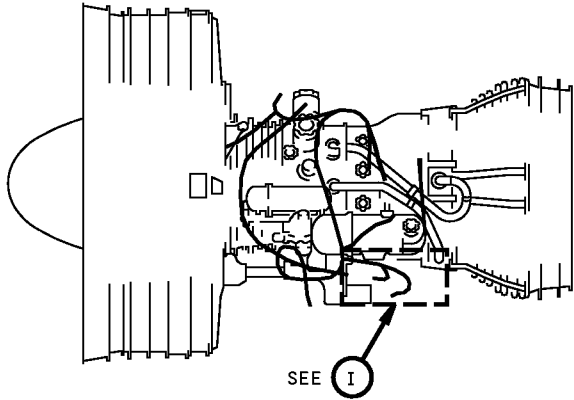
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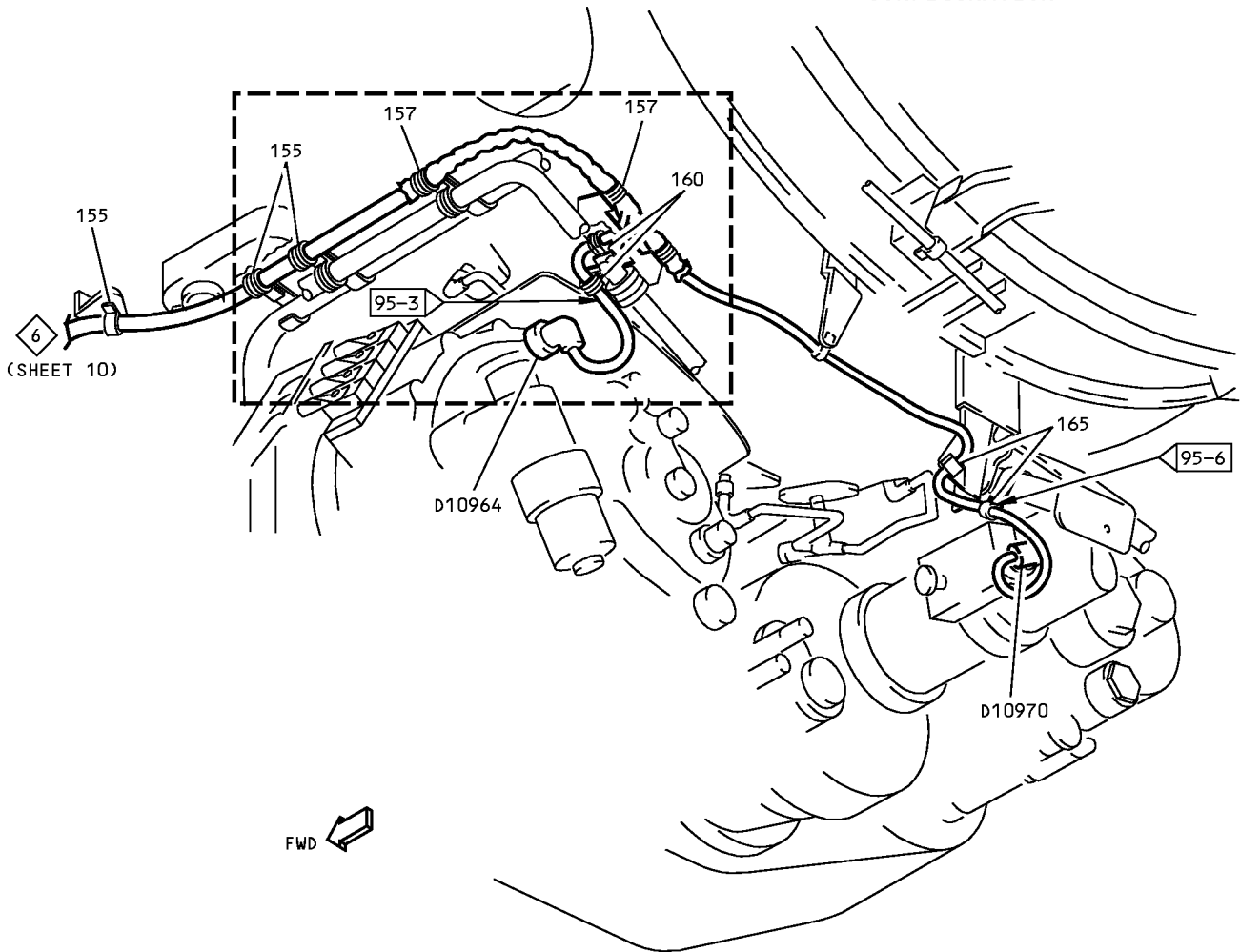
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**POWERPLANT BUILDUP MANUAL**



ORIGINAL CONFIGURATION  
D10964



PREFERRED CONFIGURATION

I

**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 11)**

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P/P BUILDUP FIGURE 11-2

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## POWERPLANT BUILDUP MANUAL

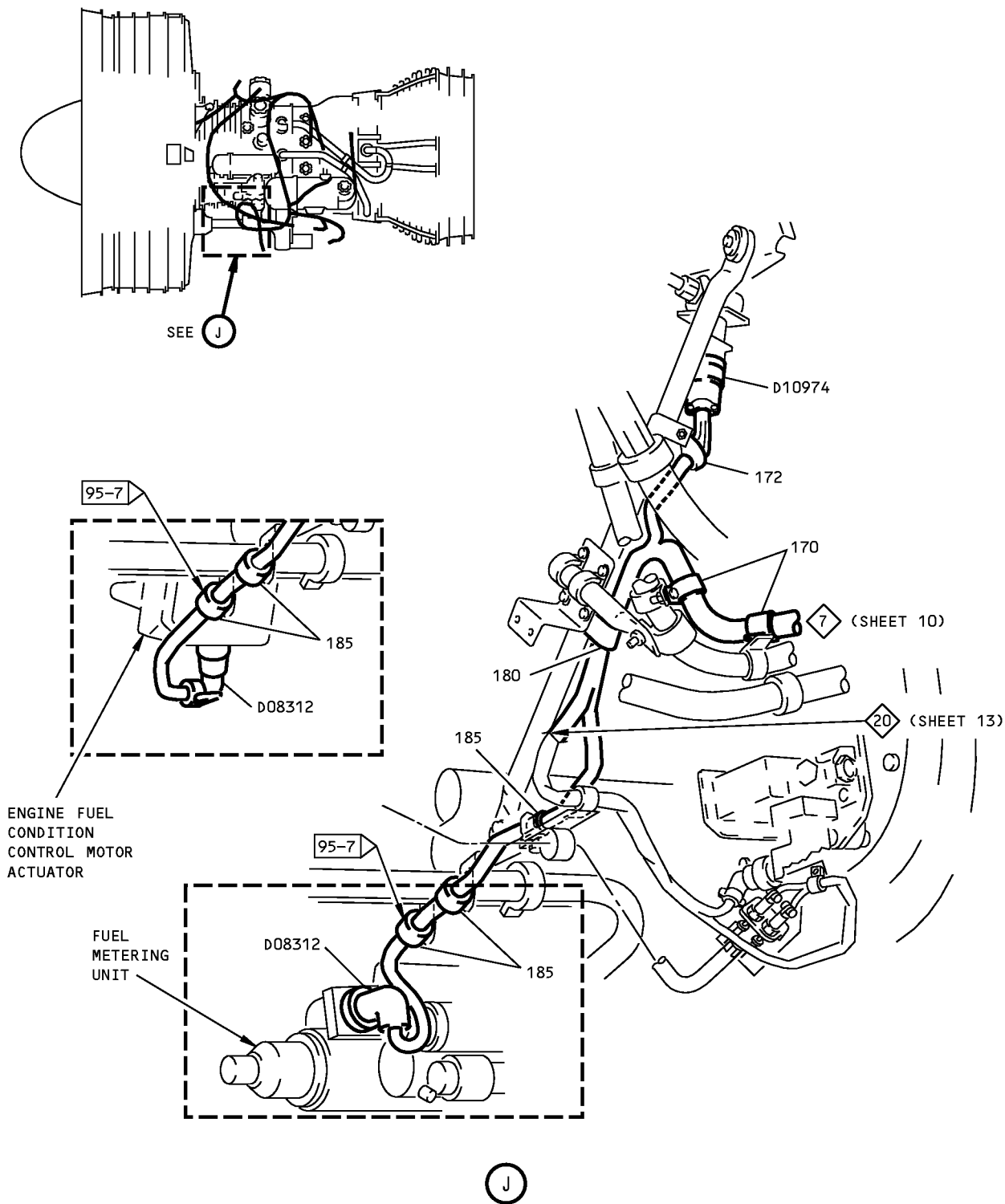
ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 11)</b>		
155	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3538 (50) TO BRACKETS WITH ITEMS (155). . CLAMP . SCREW . WASHER . NUT		3 3 3 3
157	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C TFE-2X	ATTACH W/B W3538 (50) TO BRACKETS WITH ITEMS (157). . CLAMP . SCREW . WASHER . NUT . SLEEVE		2 2 2 2 1
160	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3538 (50) TO BRACKETS WITH ITEMS (160). . CLAMP . SCREW . WASHER . NUT		2 2 2 2
165	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	INSTALL CONNECTOR D10964 ON W/B W3538 (50) TO IDG. INSTALL CONNECTOR D10970 ON W/B W3506 (10) TO START VALVE. ATTACH W/B W3506 (10) TO BRACKET WITH ITEMS (165). . CLAMP . SCREW . WASHER . NUT		4 4 4 4

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P/P BUILDUP FIGURE 11-2

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Wire Harness Installation - Core Case (KIDDE FIRE DETECTORS) Figure 11-2 (Sheet 12)

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P/P BUILDUP FIGURE 11-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 12)</b>		
		ATTACH W/B'S W3506 (10)/W3508 (15)/W3510 (20)/ W3516 (35)/W3522 (45) TO BRACKET WITH ITEMS (170).		
170	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	. CLAMP . SCREW . WASHER . NUT		2 2 2 2
172	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3510 (20) TO BRACKET WITH ITEMS (172). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
		INSTALL CONNECTOR D10974 ON W/B W3510 (20) TO OIL FILTER BYPASS SW.		
180	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3506 (10)/W3508 (15)/W3510 (20)/W3516 (35) TO BRACKET WITH ITEMS (180). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
185	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3506 (10) TO BRACKET WITH ITEMS (185). . CLAMP . SCREW . WASHER . NUT		3 3 3 3
		<u>WITH FUEL METER UNIT;</u>		
		INSTALL CONNECTOR D08312 ON W/B W3506 (10) TO FUEL METER UNIT.		
		<u>WITH ENGINE FUEL CONDITION MOTOR ACTUATOR;</u>		
		INSTALL CONNECTOR D08312 ON W/B W3506 (10) TO FUEL COND ACTR.		

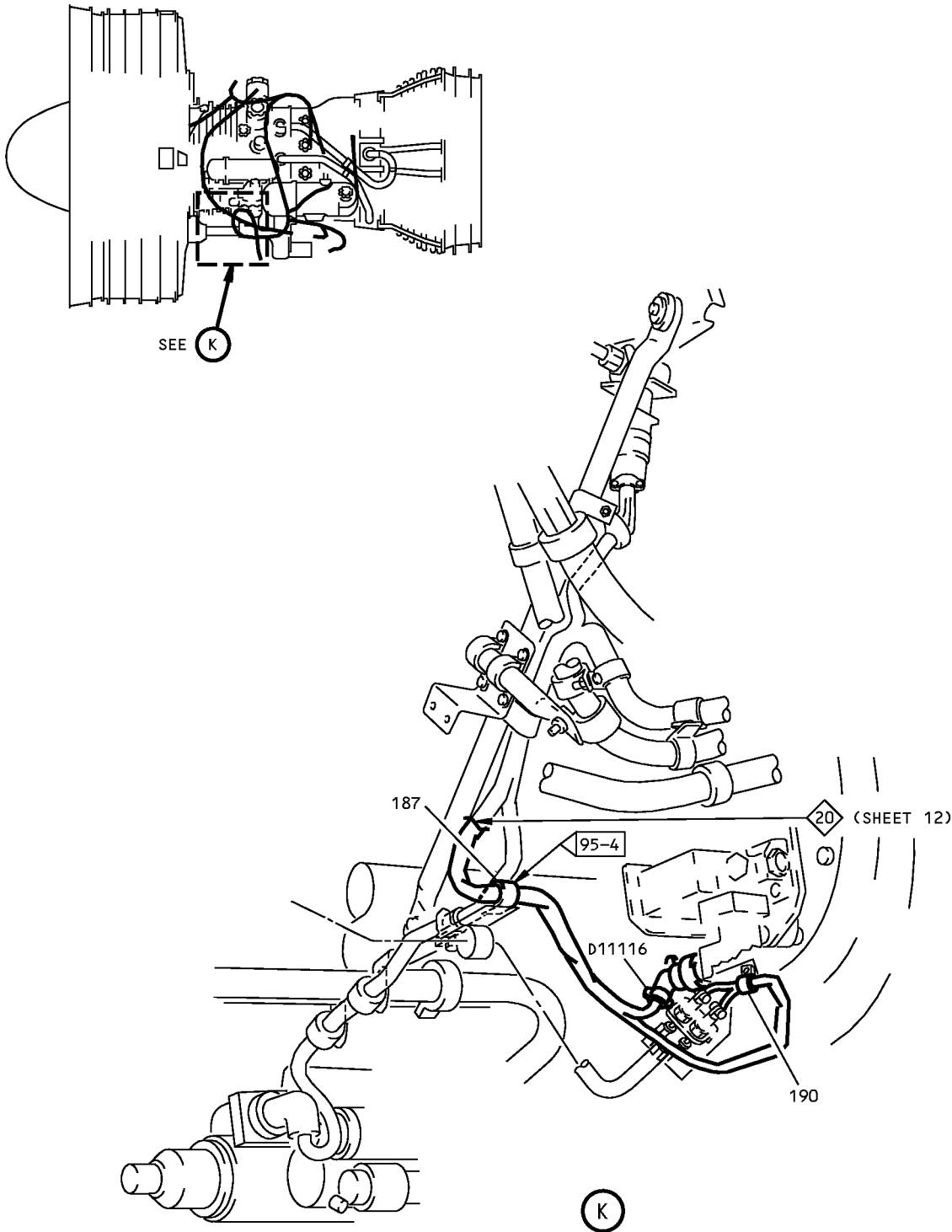
**71-00-02**

P/P BUILDUP FIGURE 11-2

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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 13)**

**71-00-02**



## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 13)</b>		
187	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3508 (15) TO BRACKET WITH ITEMS (187). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
190	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	INSTALL CONNECTOR D11116 ON W/B W3508 (15) TO PPV CONTROL. ATTACH W/B'S W3516 (35)/W3522 (45) TO BRACKET WITH ITEMS (190). . CLAMP . SCREW . WASHER . NUT  TIGHTEN NO. 8 NUT TO 20-25 LB-IN AND NO. 10 NUT TO 30-35 LB-IN.		1 1 1 1

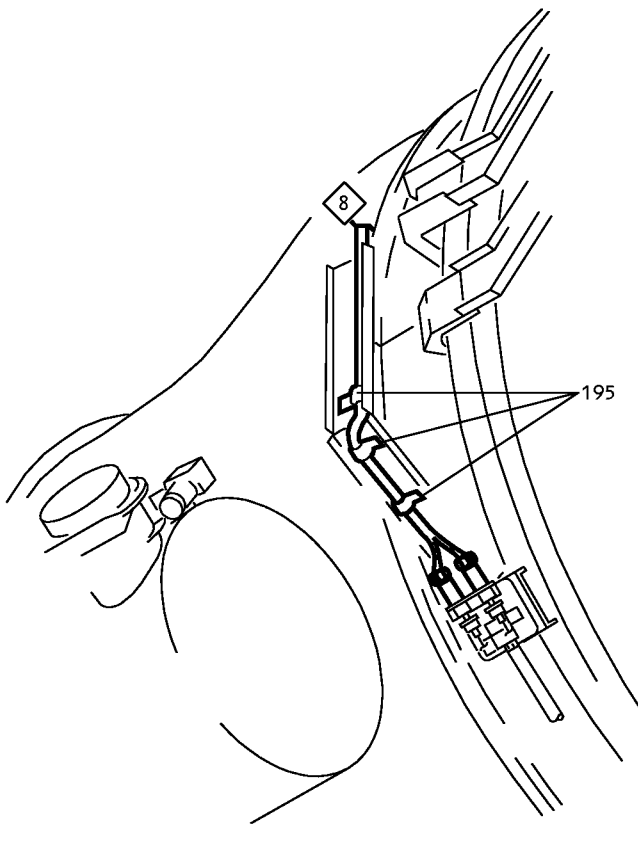
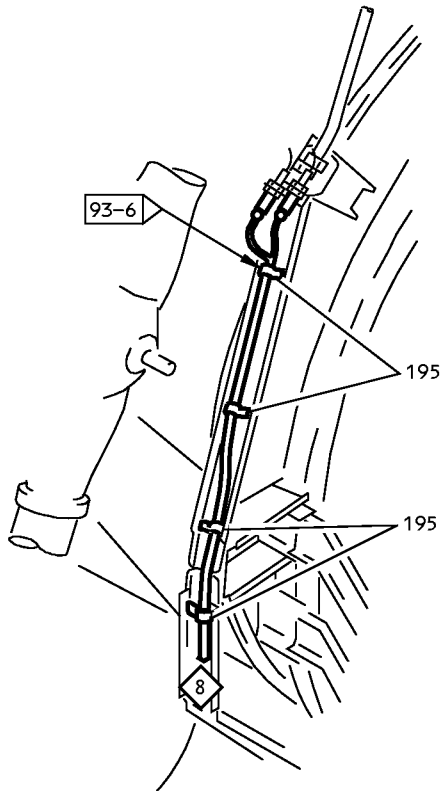
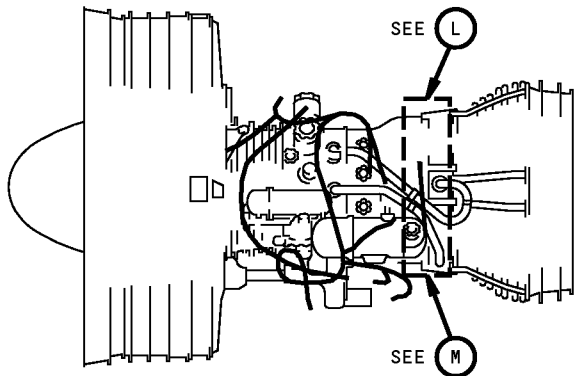
**71-00-02**

P/P BUILDUP FIGURE 11-2

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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 14)**

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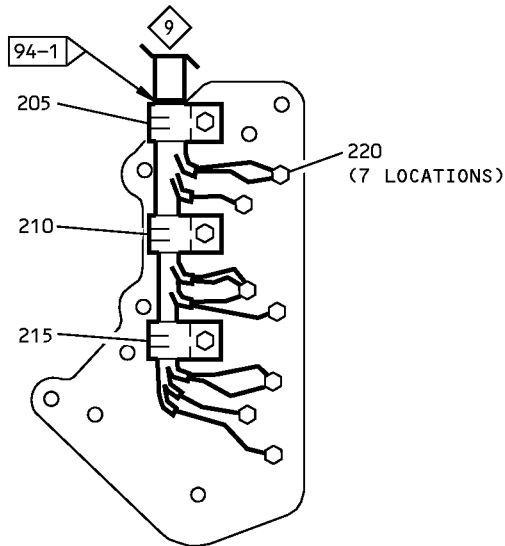
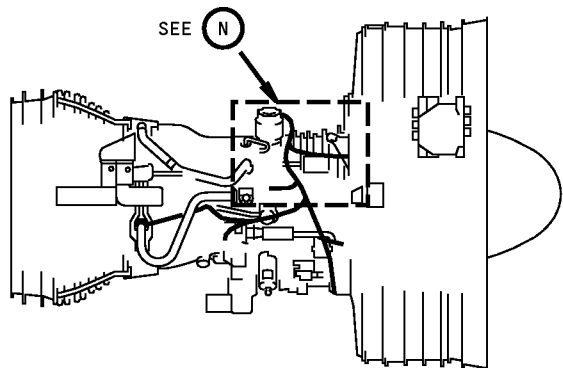
P/P BUILDUP FIGURE 11-2

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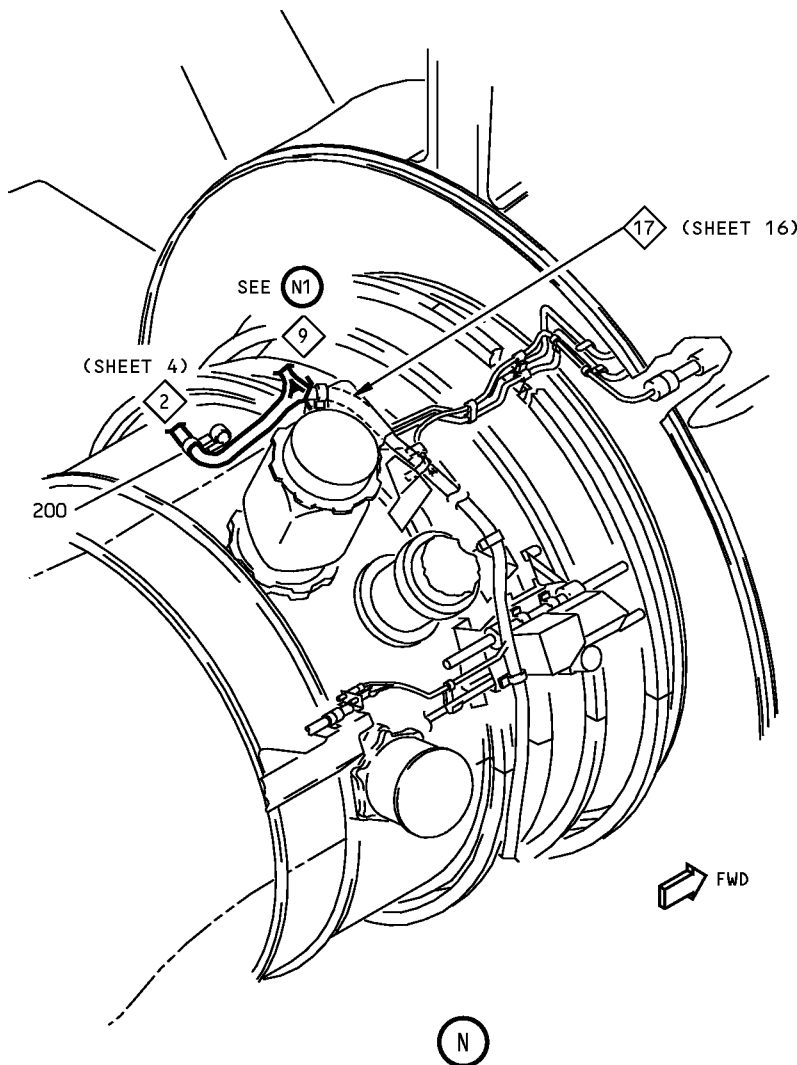
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POWERPLANT BUILDUP MANUAL



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Wire Harness Installation - Core Case (KIDDE FIRE DETECTORS) Figure 11-2 (Sheet 15)

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P/P BUILDUP FIGURE 11-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 15)</b>		
200	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3506 (10)/W3508 (15)/W3510 (20)/ W3520 (40)/W3538 (50) TO BRACKET WITH ITEMS (200). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
205	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3508 (15)/W3510 (20)/W3538 (50) TO BRACKET WITH ITEMS (205). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
210	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3508 (15)/W3510 (20)/W3538 (50) TO BRACKET WITH ITEMS (210). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
215	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3508 (15)/W3510 (20)/W3538 (50) TO BRACKET WITH ITEMS (215). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
220	NAS1149C0363R BACN10YR3C	ATTACH GROUND STUDS GD6659S/GD6633S/GD6597DC/ GD6529S/ GD6595DC/GD6617S/GD6585DC/GD6591DC TO BRACKET WITH ITEMS (220). . WASHER . NUT		7 7

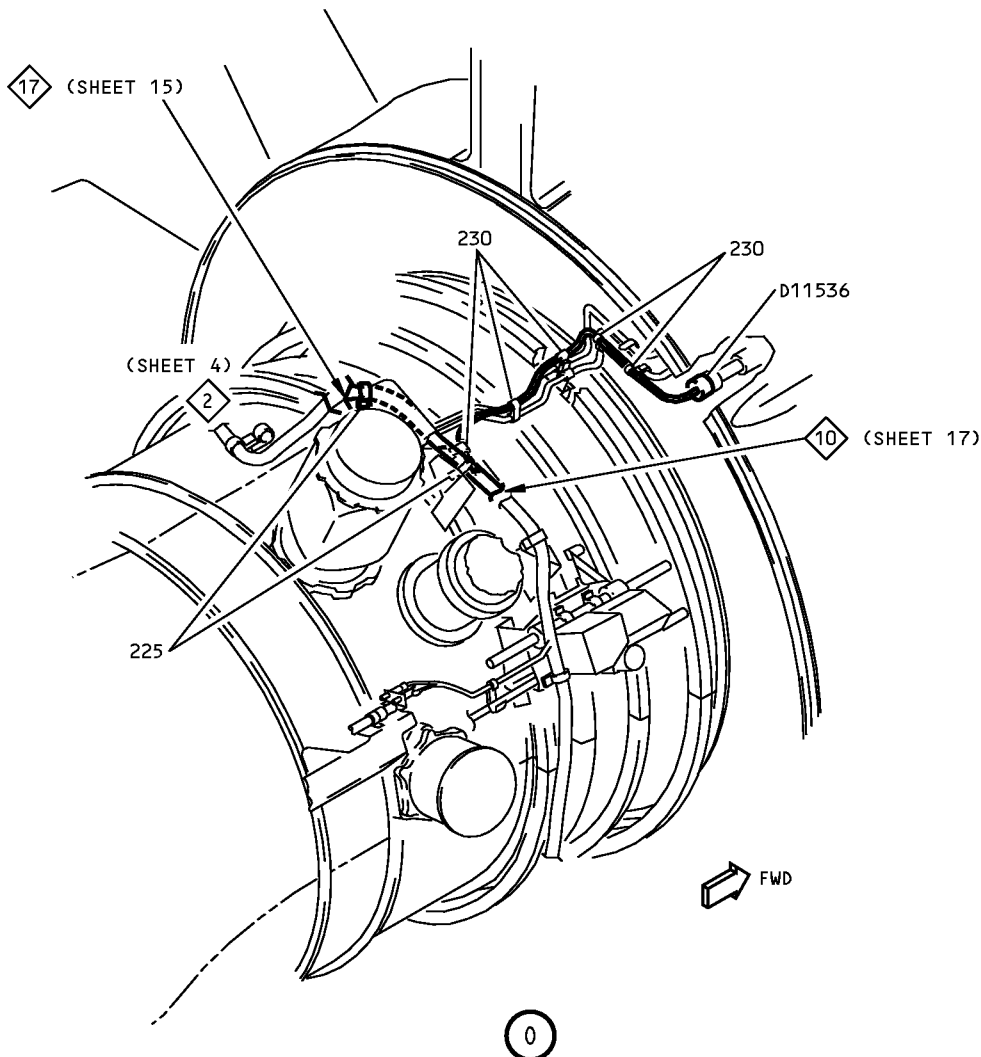
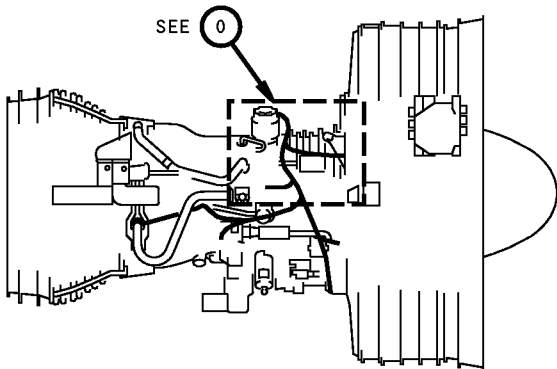
**71-00-02**

P/P BUILDUP FIGURE 11-2

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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 16)**

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P/P BUILDUP FIGURE 11-2  
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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<p><b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 16)</b></p>		
225	<p>TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C</p>	<p>ATTACH W/B'S W3506 (10)/W3508 (15)/W3510 (20)/ W3520 (40)/W3538 (50) TO BRACKETS WITH ITEMS (225).</p> <p>. CLAMP . SCREW . WASHER . NUT</p>		<p>2 2 2 2</p>
230	<p>TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C</p>	<p>ATTACH W/B W3538 (50) TO BRACKETS WITH ITEMS (230).</p> <p>. CLAMP . SCREW . WASHER . NUT</p> <p>INSTALL CONNECTOR D11536 ON W/B W3538 (50) TO OVERRIDE PRESS SW.</p>		<p>5 5 5 5</p>

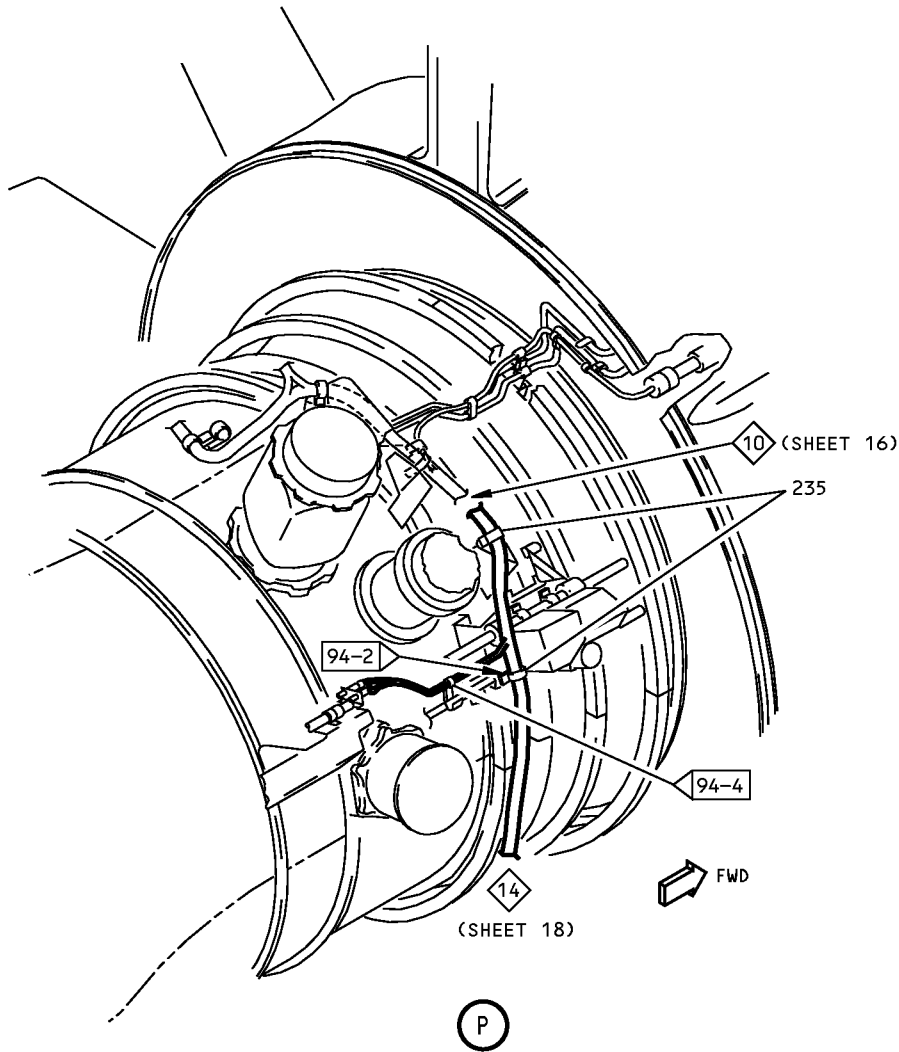
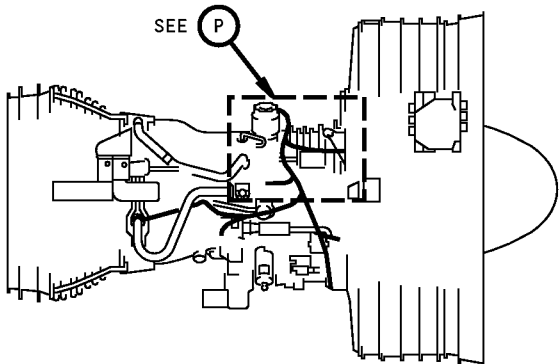
**71-00-02**

P/P BUILDUP FIGURE 11-2

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**POWERPLANT BUILDUP MANUAL**



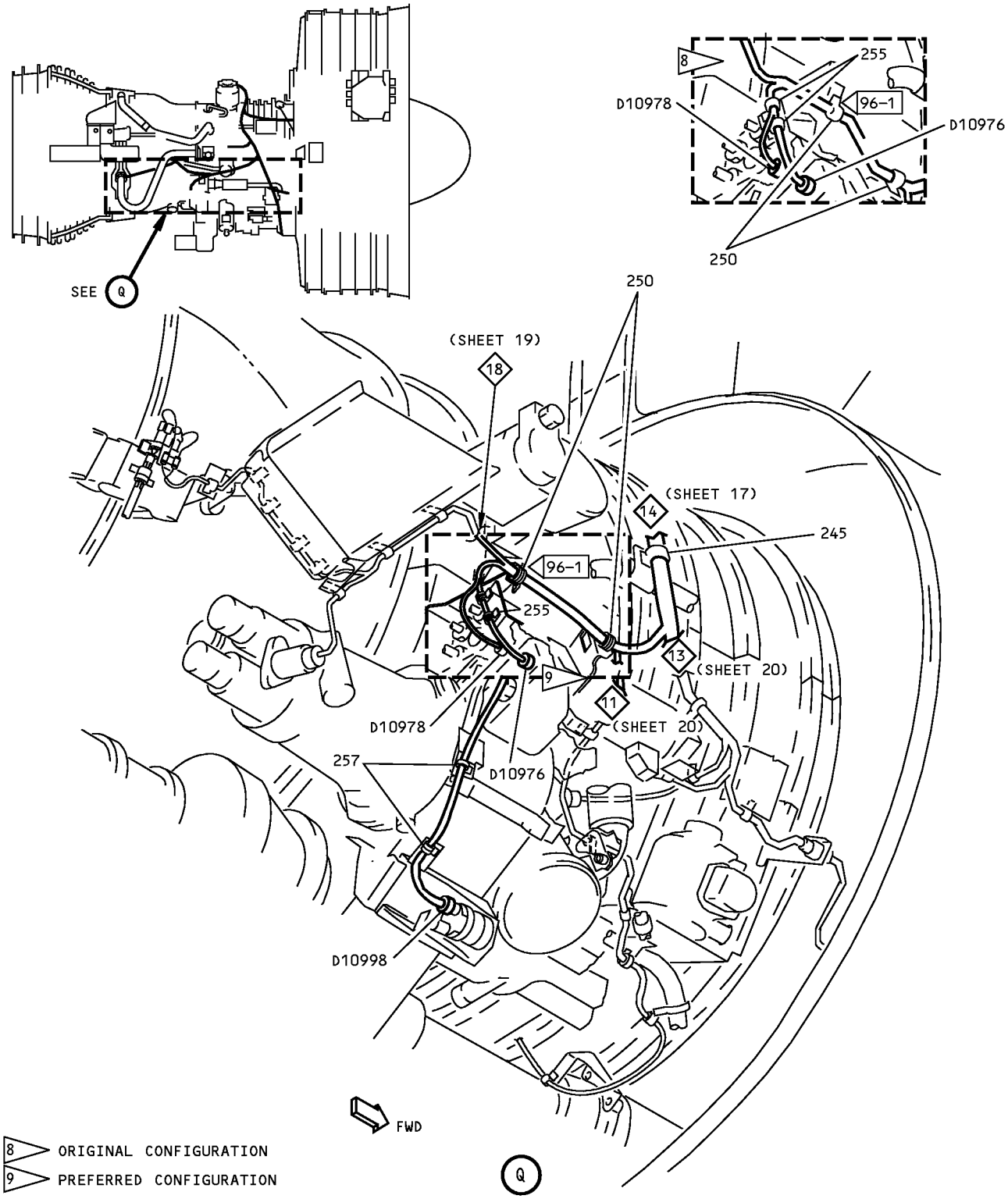
**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 17)**

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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 18)**

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P/P BUILDUP FIGURE 11-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 18)</b>		
245	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3508 (15)/W3510 (20)/W3514 (30) TO BRACKET WITH ITEMS (245). . CLAMP . SCREW . WASHER . NUT		1 1 1 1
250	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3508 (15)/W3510 (20)/W3538 (50) TO BRACKETS WITH ITEMS (250). . CLAMP . SCREW . WASHER . NUT		2 2 2 2
255	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3508 (15)/W3510 (20) TO BRACKET WITH ITEMS (255). . CLAMP . SCREW . WASHER . NUT		2 2 2 2
		INSTALL CONNECTORS D10976 ON W/B W3508 (15) AND D10978 ON W/B W3510 (20) TO IGNITION EXCITER. <u>WITH FUEL PRESSURE TRANSMITTER;</u>		
257	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3510 (20) TO BRACKETS WITH ITEMS (257). . CLAMP . SCREW . WASHER . NUT  INSTALL CONNECTOR D10998 ON W/B W3510 (20) TO FUEL PRESSURE XMTR.		2 2 2 2

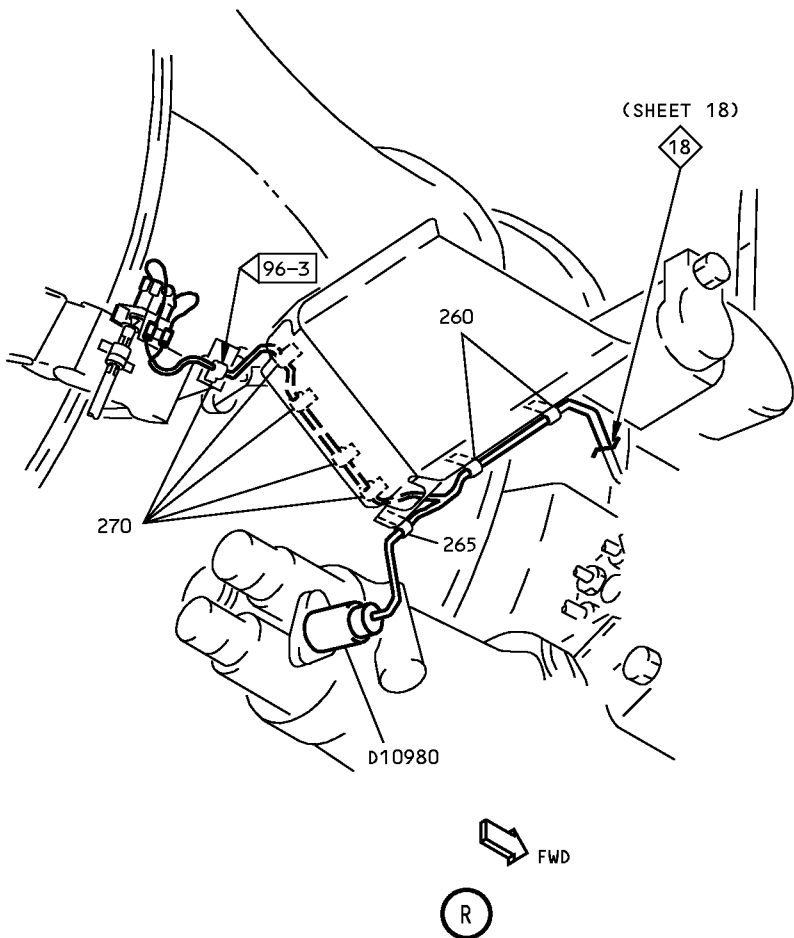
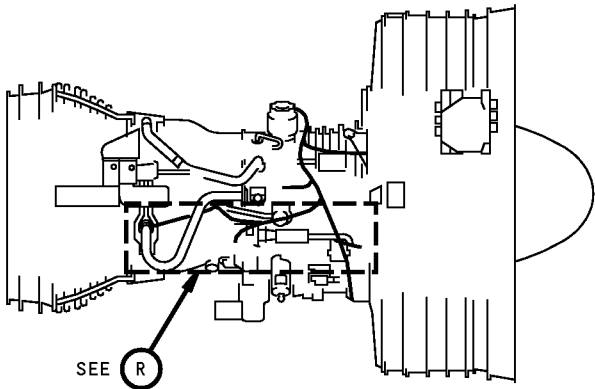
**71-00-02**

P/P BUILDUP FIGURE 11-2

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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 19)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 19)</b>		
260	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3508 (15)/W3514 (30) TO BRACKETS WITH ITEMS (260). . CLAMP . SCREW . WASHER . NUT		2 2 2 2
265	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3508 (15) TO BRACKET WITH ITEMS (265). . CLAMP . SCREW . WASHER . NUT  INSTALL CONNECTOR D10980 ON W3508 (15) TO HYDRAULIC PUMP.		1 1 1 1
270	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3514 (30) TO BRACKETS WITH ITEMS (270). . CLAMP . SCREW . WASHER . NUT  TIGHTEN NO. 8 NUT TO 20-25 LB-IN AND NO. 10 NUT TO 30-35 LB-IN.		5 5 5 5

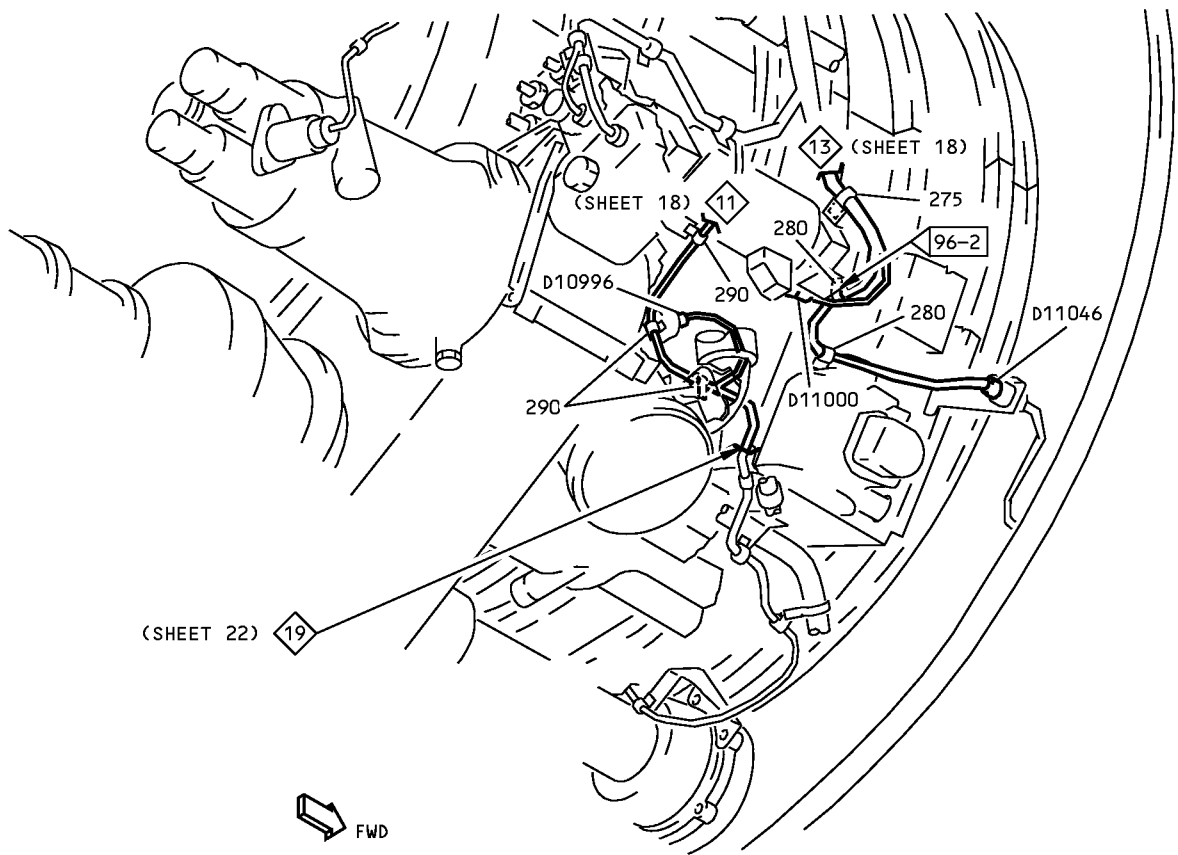
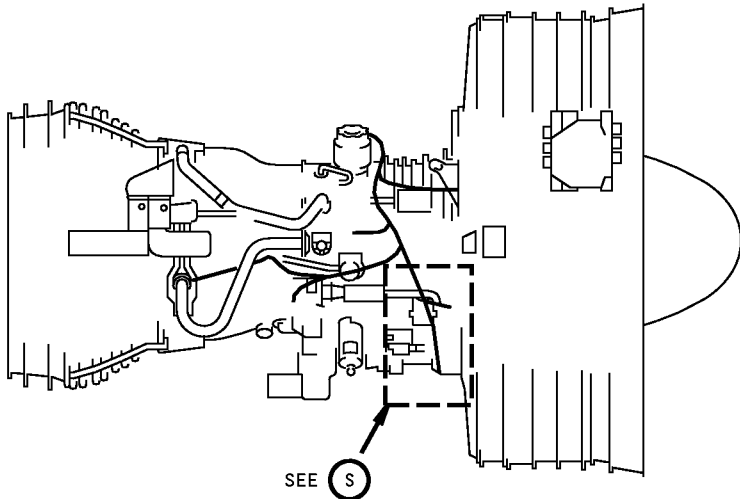
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P/P BUILDUP FIGURE 11-2

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**POWERPLANT BUILDUP MANUAL**



PREFERRED CONFIGURATION

S

**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 20)**

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P/P BUILDUP FIGURE 11-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 20)</b>  <u>PREFERRED CONFIGURATION:</u>		
275	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3508 (15)/W3510 (20) TO BRACKET WITH ITEMS (275). . CLAMP . SCREW . WASHER . NUT  INSTALL CONNECTOR D11000 ON W/B W3510 (20) TO FUEL FLOW XMTR.		1 1 1 1
280	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3538 (50) TO BRACKETS WITH ITEMS (280). . CLAMP . SCREW . WASHER . NUT  INSTALL CONNECTOR D11046 ON W/B W3538 (50) TO FAN AIR/OIL COOLER VALVE.		2 2 2 2
290	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3510 (20) TO BRACKETS WITH ITEMS (290). . CLAMP . SCREW . WASHER . NUT  INSTALL CONNECTOR D10996 ON W/B W3510 (20) TO FUEL FILTER BYPASS SWITCH.		3 3 3 3

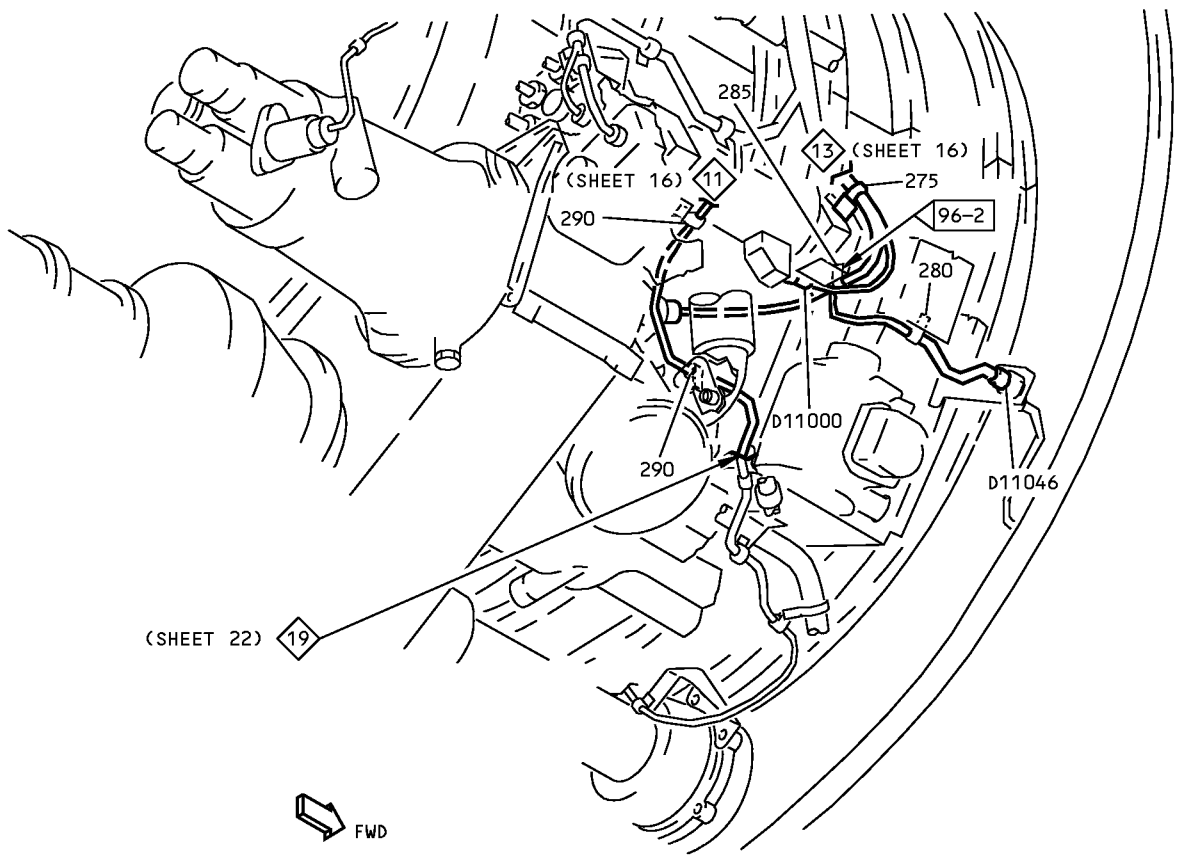
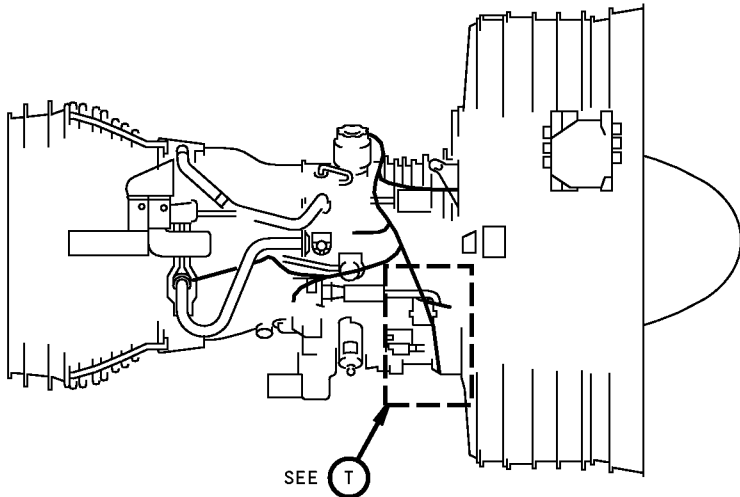
**71-00-02**

P/P BUILDUP FIGURE 11-2

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**POWERPLANT BUILDUP MANUAL**



ORIGINAL CONFIGURATION

T

**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 21)**

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P/P BUILDUP FIGURE 11-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 21)</b> <u>ORIGINAL CONFIGURATION;</u>		
275	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B'S W3508 (15)/W3510 (20) TO BRACKET WITH ITEMS (275). . CLAMP (QTY 1) . SCREW (QTY 1) . WASHER (QTY 1) . NUT (QTY 1)  INSTALL CONNECTOR D11000 ON W/B W3510 (20) TO FUEL FLOW XMTR.	LTD LTD LTD LTD	- - - -
280	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3538 (50) TO BRACKET WITH ITEMS (280). . CLAMP (QTY 1) . SCREW (QTY 1) . WASHER (QTY 1) . NUT (QTY 1)	LTD LTD LTD LTD	- - - -
285	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3508 (15) TO BRACKET WITH ITEMS (285). . CLAMP (QTY 1) . SCREW (QTY 1) . WASHER (QTY 1) . NUT (QTY 1)	LTD LTD LTD LTD	- - - -
290	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	ATTACH W/B W3514 (30) TO BRACKETS WITH ITEMS (290). . CLAMP (QTY 2) . SCREW (QTY 2) . WASHER (QTY 2) . NUT (QTY 2)  INSTALL CONNECTOR D10996 ON W/B W3510 (20) TO FUEL FILTER BYPASS SWITCH.	LTD LTD LTD LTD	- - - -

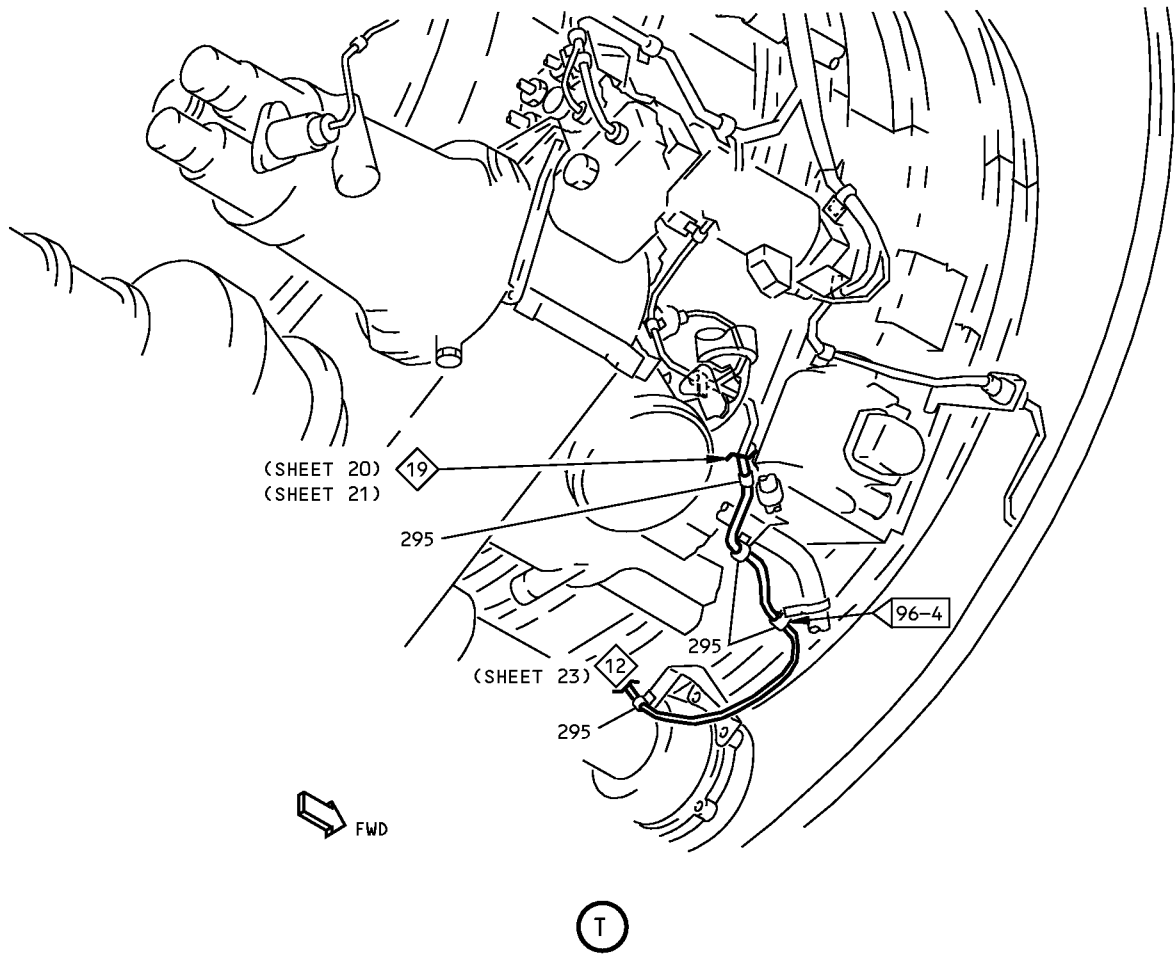
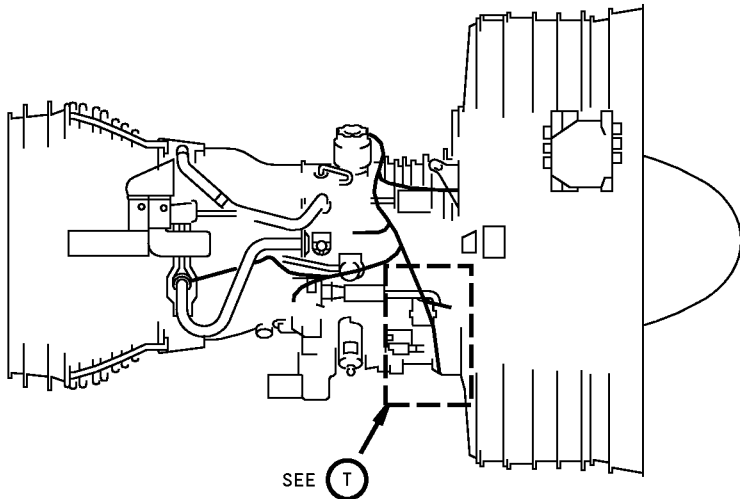
**71-00-02**

P/P BUILDUP FIGURE 11-2

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**POWERPLANT BUILDUP MANUAL**



**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 22)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
11-2		<b>WIRE HARNESS INSTALLATION - CORE CASE (KIDDE FIRE DETECTORS) (FIGURE 11-2, SHEET 22)</b>  ATTACH W/B W3514 (30) TO BRACKETS WITH ITEMS (295).		
295	TA025041-( ) BACS12HN3U8 NAS1149C0332R BACN10YR3C	. CLAMP . SCREW . WASHER . NUT		4 4 4 4

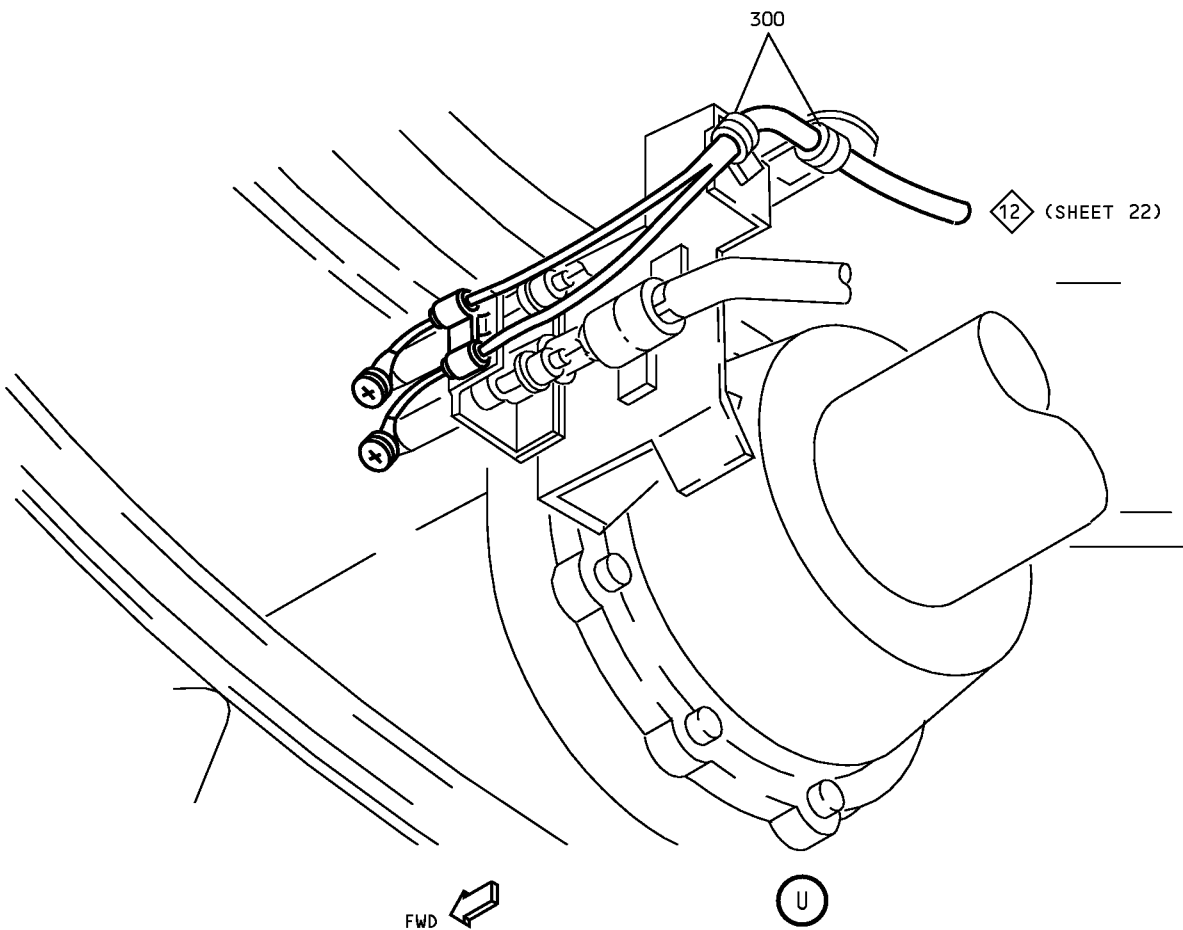
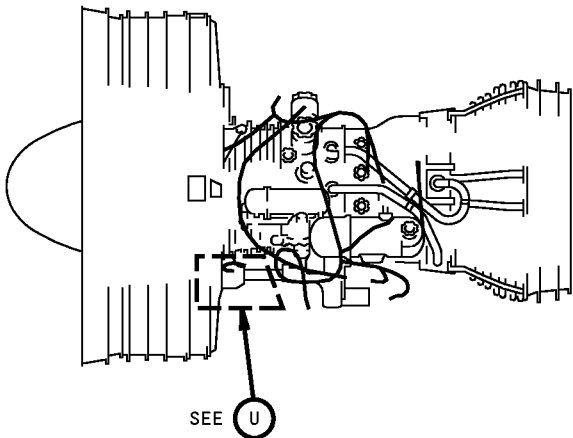
**71-00-02**

P/P BUILDUP FIGURE 11-2

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**Wire Harness Installation - Core Case  
(KIDDE FIRE DETECTORS)  
Figure 11-2 (Sheet 23)**

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P/P BUILDUP FIGURE 11-2

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FIGURE 12-1

# CONTROL INSTALLATION

REF QEC TASK NO.: 12

REF DWG: 315T3050

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

**NOTE:** THIS PROCEDURE INSTALLS CONTROL ON EARLIER PRODUCTION ENGINES. ON LATER PRODUCTION ENGINES, REFER TO PW4000 SERIES ENGINE MANUAL FOR CONTROL INSTALLATION.

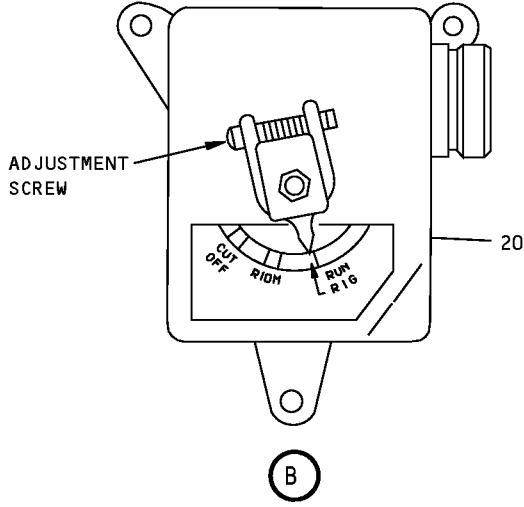
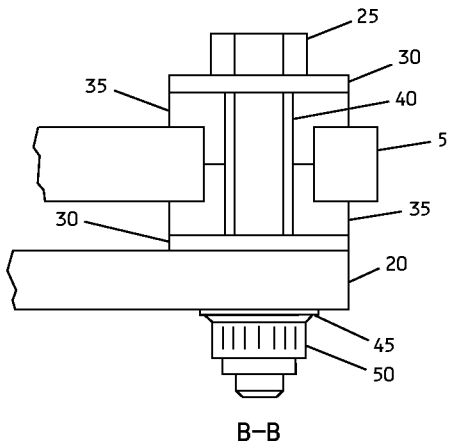
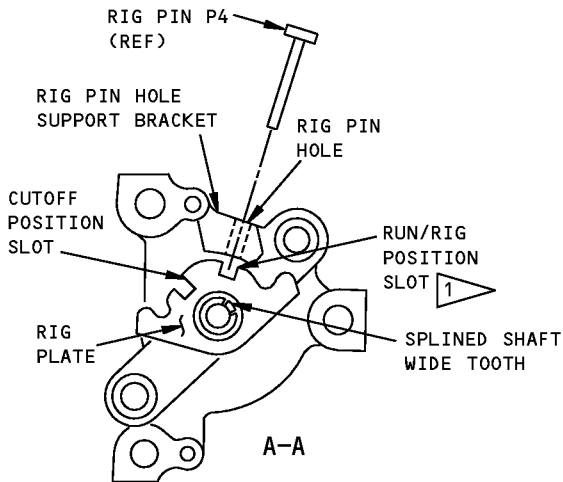
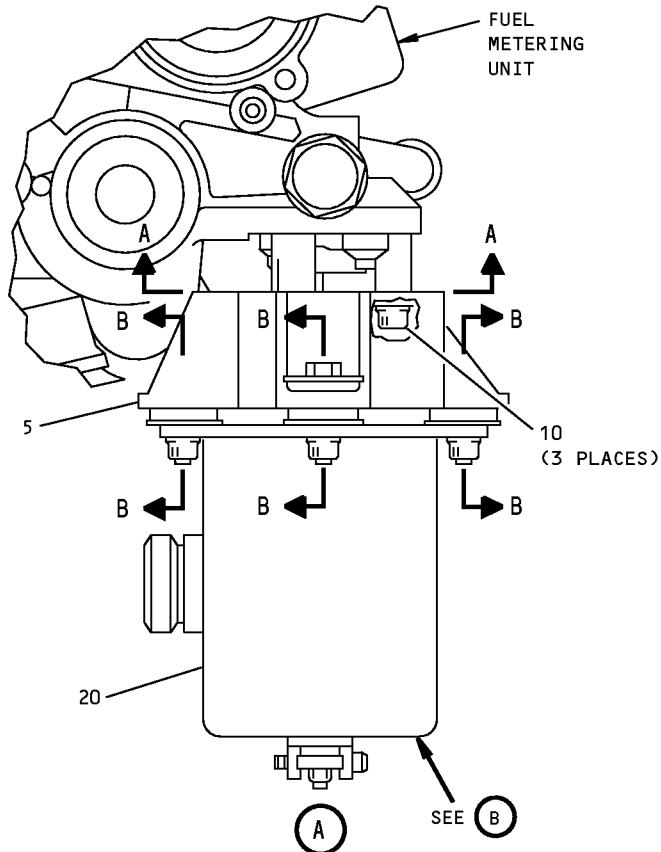
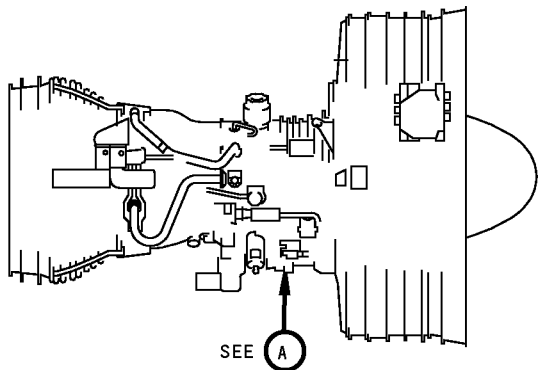
**71-00-02**

P/P BUILDUP FIGURE 12-1

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**POWERPLANT BUILDUP MANUAL**



1 ROTATE SPLINED SHAFT COUNTER-CLOCKWISE TO ALIGN RUN/RIG POSITION SLOT WITH RIG PIN HOLE

**Control Installation  
Figure 12-1 (Sheet 1)**

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P/P BUILDUP FIGURE 12-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-1		<b>CONTROL INSTALLATION (FIGURE 12-1, SHEET 1)</b> <u>USED ON FUEL METERING UNIT 789777-1</u>		
5	315T4040-11	SECURE SPACER (5) TO FUEL METERING UNIT WITH BOLT (10). . SPACER (1 REQD)	LTD	-
10	BACB30LE3HU15	. BOLT (3 REQD)	LTD	-
		CONNECT 24 TO 28V DC TO PIN 4 (NEGATIVE) AND PIN 3 (POSITIVE) ON CONDITION ACTUATOR (20) AND RUN TO RIG POSITION. <b>NOTE:</b> MOVE ACTUATOR ELECTRICALLY TO RIG POSITION TO TEST ACTUATOR BEFORE INSTALLATION.  CHECK THAT THE FUEL METERING UNIT SPLINED SHAFT IS ROTATED FULL COUNTERCLOCKWISE TO ALIGN RIG PLATE RUN/ RIG POSITION SLOT WITH RIG PIN HOLE. INSERT RIG PIN P4 IN RIG PIN HOLE IN SUPPORT BRACKET, LOCATED ON FUEL METERING UNIT.  ALIGN MISSING TOOTH OF SPLINE ON CONDITION ACTUATOR (20) WITH THICK SPLINE ON FUEL METERING UNIT SHAFT AND ENGAGE. ROTATE ACTUATOR HOUSING USING ADJUSTMENT SCREW TO ALIGN ACTUATOR MOUNTING HOLES WITH HOLES OF SPACER (5) AND ATTACH WITH ITEMS (25 THRU 50).		
20	6329F0001-01	. ACTUATOR (V17472) (BOEING S315T367-6)	VEN	-
20	S315T367-6	. ACTUATOR (1 REQD)	LTD	-
20	6329D0001-01	. ACTUATOR (V17472) (BOEING S315T367-4)	VEN	-
20	S315T367-4	. ACTUATOR (OPT)	LTD	-
25	BACB30LM3-12	. BOLT (3 REQD)	LTD	-
30	315T4040-13	. WASHER (6 REQD)	LTD	-
35	E1RP2173C77	. ISOLATOR (6 REQD)	LTD	-
40	NAS1057W3-043	. SPACER (3 REQD)	LTD	-
45	NAS1149C0332R	. WASHER (3 REQD)	LTD	-
50	BACN10HR3CS	. NUT (3 REQD)	LTD	-
		REMOVE RIG PIN P4 AND CYCLE ACTUATOR.  CONNECT PIN 4 TO NEGATIVE, POSITIVE TERMINAL TO PIN 1 AND CHECK THAT ACTUATOR POINTER MOVES TO "CUTOFF" POSITION.  CONNECT PIN 4 TO NEGATIVE, POSITIVE TERMINAL TO PIN 3 AND CHECK THAT ACTUATOR POINTER MOVES TO "RUN" POSITION.  WITH ACTUATOR IN THE "RUN" POSITION, CHECK THAT RIG PIN P4 CAN BE INSTALLED FREELY TO THE SAME DEPTH. IF RIG PIN P4 DOES NOT INSERT FREELY, REMOVE ACTUATOR MOUNTING BOLTS AND REPEAT THE INSTALLATION INSTRUCTIONS.		

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P/P BUILDUP FIGURE 12-1

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FIGURE 12-2

# ECS CONTROLLER INSTALLATION

REF QEC TASK NO.: 12

REF DWG: 332T4340

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

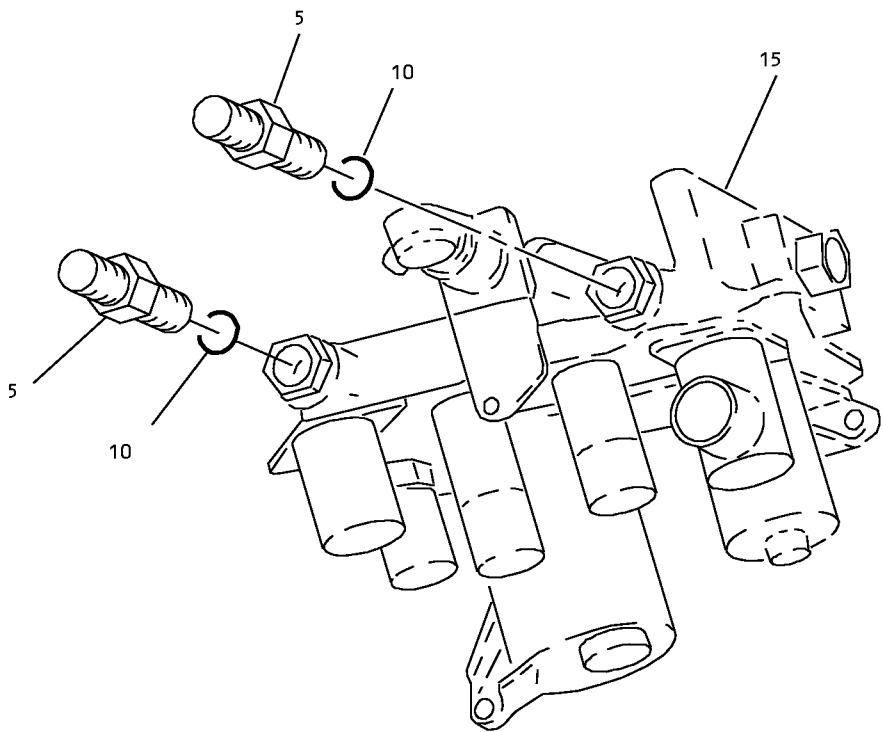
**71-00-02**

P/P BUILDUP FIGURE 12-2

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POWERPLANT BUILDUP MANUAL**



**ECS Controller Installation  
Figure 12-2 (Sheet 1)**

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P/P BUILDUP FIGURE 12-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-2		<b>ECS CONTROLLER INSTALLATION (FIGURE 12-2, SHEET 1)</b>  INSTALL UNIONS (5) AND PACKINGS (10) IN PORTS OF HP VALVE CONTROLLER (15).		
5	MS21902J6	. UNION		2
10	BACP11K6	. PACKING		2
15	773289-15	. HP CONTROLLER (V73030) (BOEING S210T120-52)	VEN	-
15	S210T120-52	. HP VALVE CONTROLLER		1
15	773289-7	. HP CONTROLLER (V73030) (BOEING S210T120-32)	VEN	-
15	S210T120-32	. HP VALVE CONTROLLER (REPLACED BY S210T120-52)	LTD	-
15	773289-3	. HP CONTROLLER (V73030) (BOEING S210T120-22)	VEN	-
15	S210T120-22	. HP VALVE CONTROLLER (REPLACED BY S210T120-32)	LTD	-

**71-00-02**

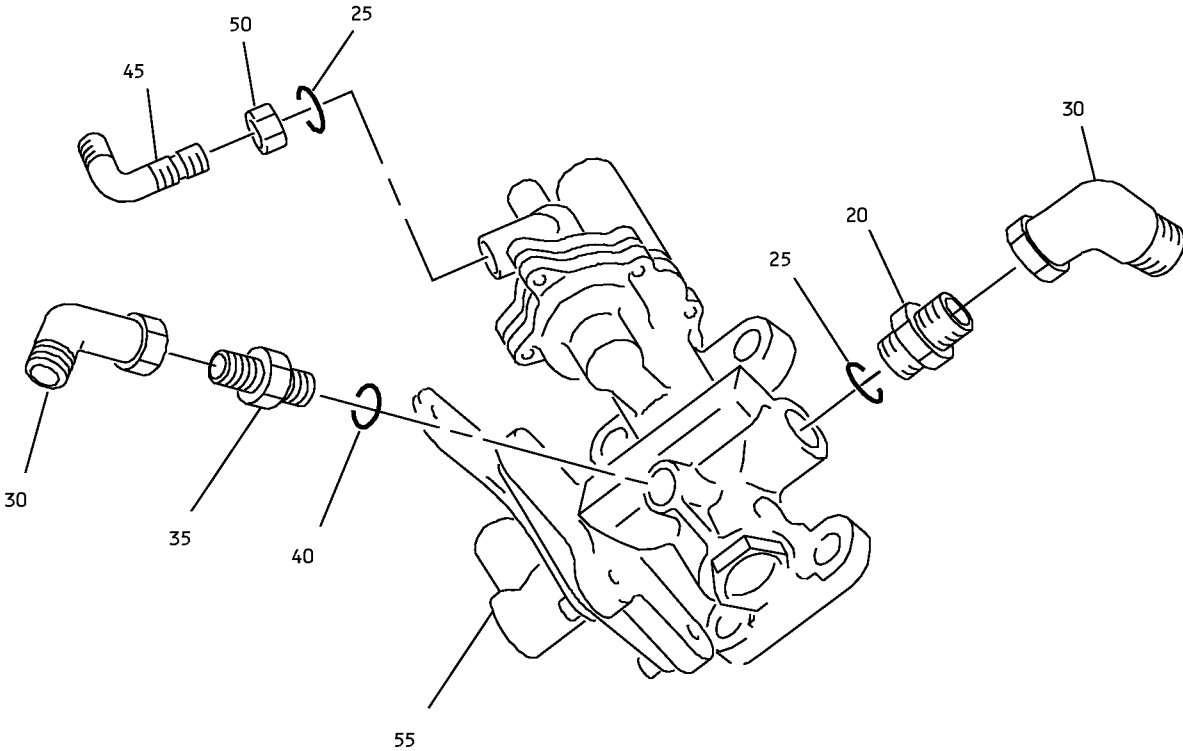
P/P BUILDUP FIGURE 12-2

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**ECS Controller Installation  
Figure 12-2 (Sheet 2)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-2		<b>ECS CONTROLLER INSTALLATION (FIGURE 12-2, SHEET 2)</b>  INSTALL UNION (20), REDUCER (35), PACKINGS (25, 40), ELBOWS (30, 45), AND NUT (50) IN PORTS OF PRV CONTROLLER (55).		
20	MS21902J6	. UNION		1
25	BACP11K6	. PACKING		2
30	BACE21BT0606JN	. ELBOW		2
35	MS21916J6-4	. REDUCER		1
40	BACP11K4	. PACKING		1
45	MS21926J6	. ELBOW		1
50	AS5178J06	. NUT		1
55	792755-14	. PRV CONTROLLER (V73030) (BOEING S210T120-222)	VEN	-
55	792755-16	. PRV CONTROLLER (V73030) (BOEING S210T120-222)	VEN	-
55	S210T120-222	. PRV CONTROLLER		1
55	792755-8	. PRV CONTROLLER (V73030) (BOEING S210T120-182)	VEN	-
55	S210T120-182	. PRV CONTROLLER (REPLACED BY S210T120-222)	LTD	-
55	792755-6	. PRV CONTROLLER (V73030) (BOEING S210T120-162)	VEN	-
55	S210T120-162	. PRV CONTROLLER (REPLACED BY S210T120-182)	LTD	-

**71-00-02**

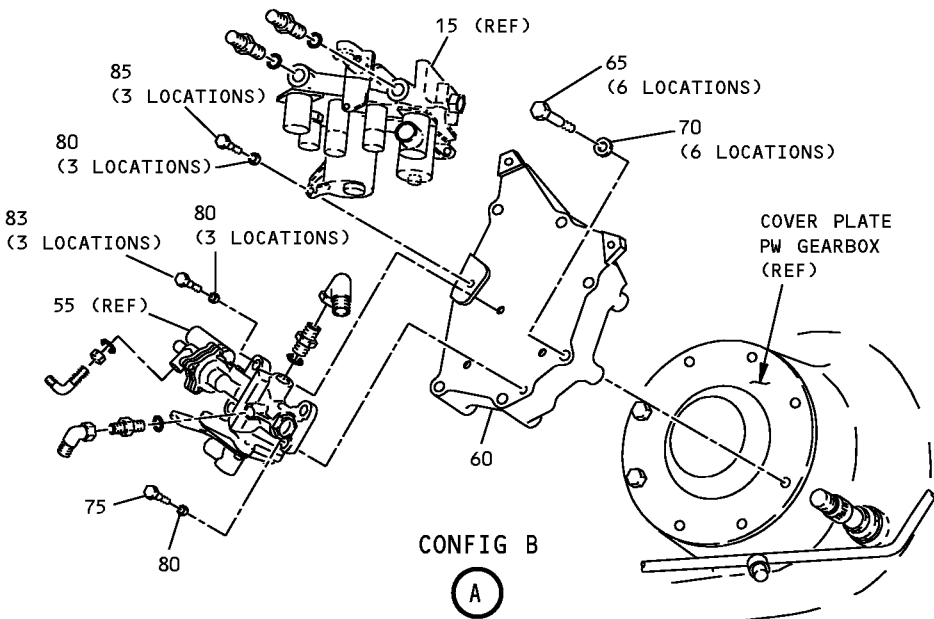
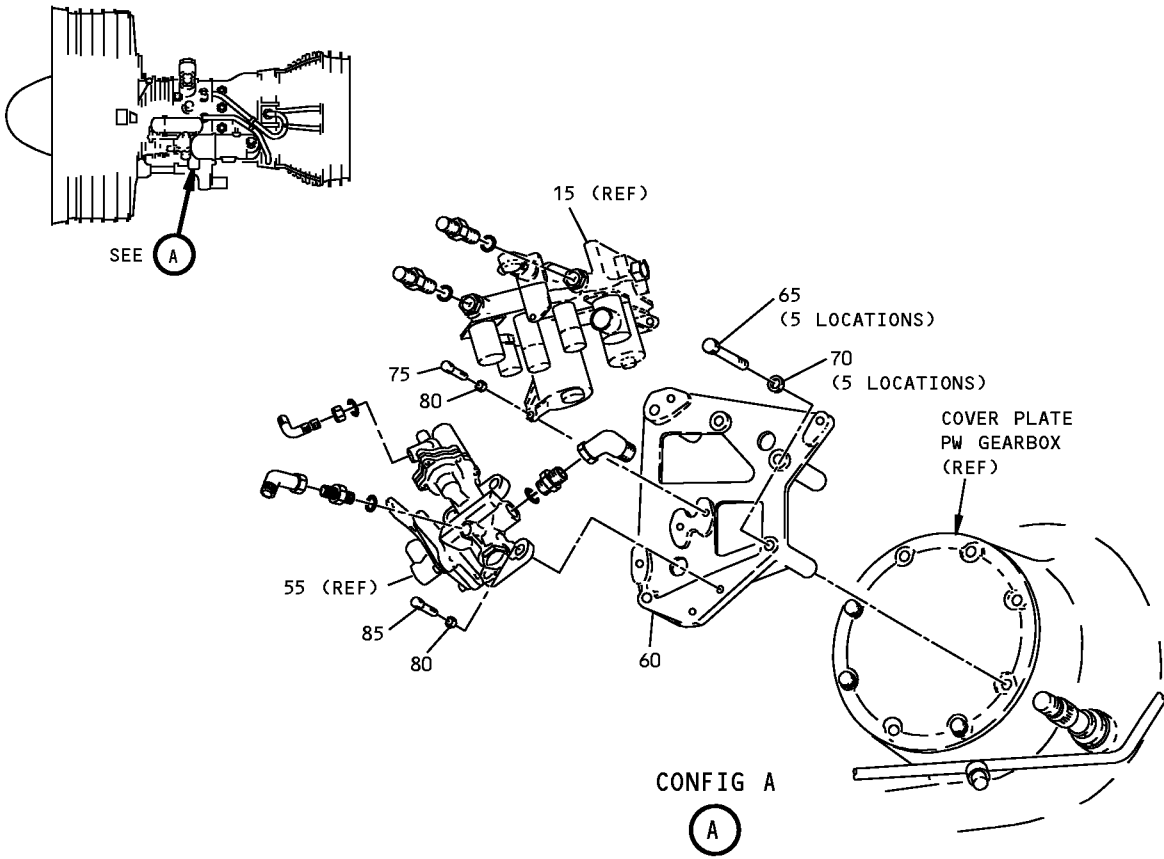
P/P BUILDUP FIGURE 12-2

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**ECS Controller Installation**  
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P/P BUILDUP FIGURE 12-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-2		<b>ECS CONTROLLER INSTALLATION (FIGURE 12-2, SHEET 3)</b>		
		APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO THREADS OF BOLTS (65). REMOVE EXISTING BOLTS FROM COVER PLATE AND ATTACH MOUNTING BRACKET (60) TO COVER PLATE USING ITEMS (65, 70).		
60	332T4341-9	. BRACKET ASSY <sup>*[B]</sup>		1
60	332T4341-12	. BRACKET ASSY <sup>*[B]</sup>	OPT	-
60	332T4341-1	. BRACKET ASSY <sup>*[A]</sup>		1
65	BACB30LM6-43	. BOLT <sup>*[B]</sup>		6
65	BACB30LM6-36	. BOLT <sup>*[A]</sup>		5
70	BACW10BN6SC	. WASHER <sup>*[B]</sup>		6
70	BACW10BN6SC	. WASHER <sup>*[A]</sup>		5
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND	CON	AR
		SECURE HP VALVE CONTROLLER (15) AND PRV CONTROLLER (55) TO BRACKET (60) USING ITEMS (75 THRU 85).		
75	BACB30LM4-8	. BOLT <sup>*[B]</sup>		1
75	BACB30LM4-8	. BOLT <sup>*[A]</sup>		3
80	BACW10BN4SC	. WASHER		7
83	BACB30LM4-10	. BOLT <sup>*[B]</sup>		3
85	BACB30LM4-11	. BOLT <sup>*[B]</sup>		3
85	BACB30LM4-11	. BOLT <sup>*[A]</sup>		4

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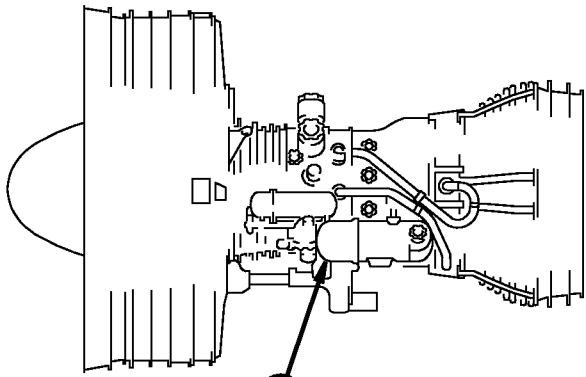
P/P BUILDUP FIGURE 12-2

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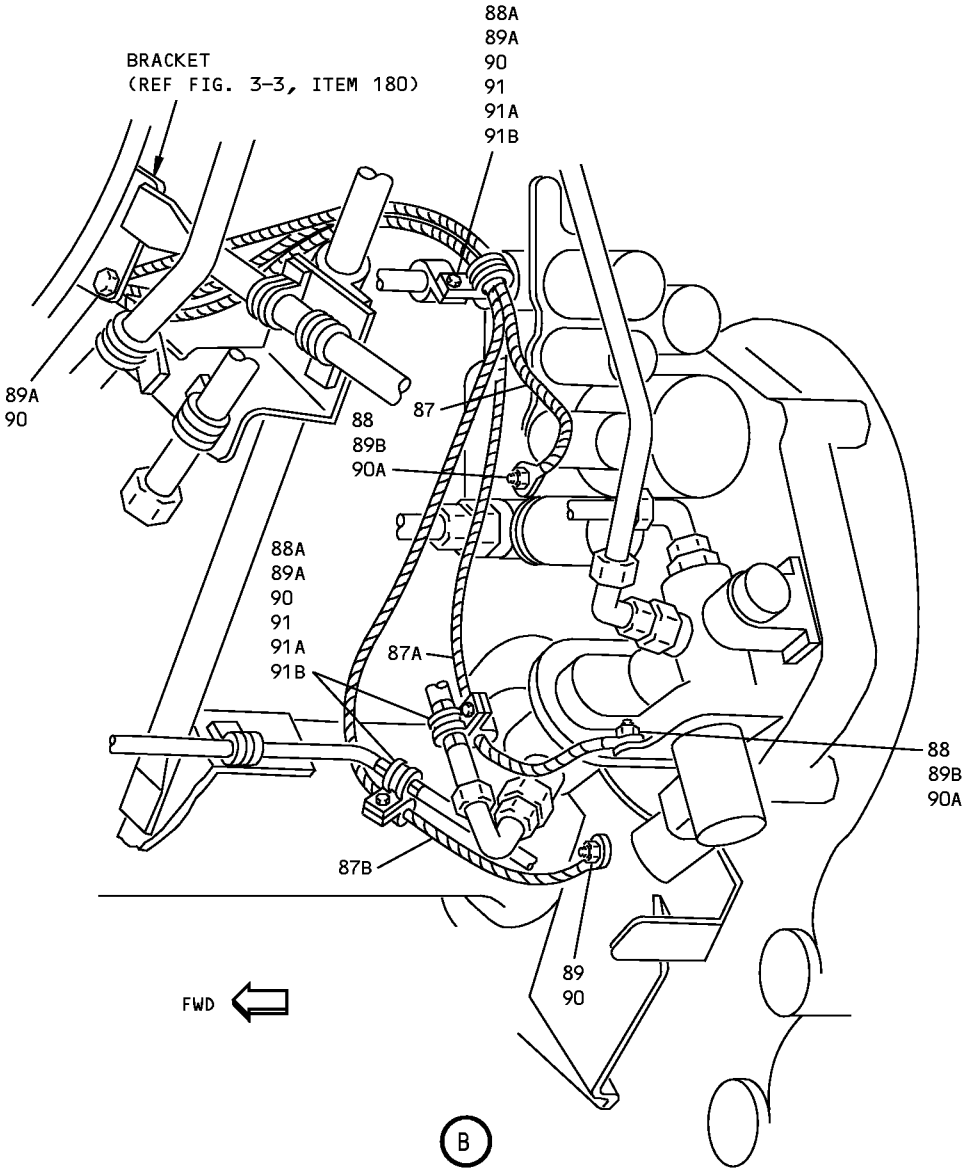
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**POWERPLANT BUILDUP MANUAL**



SEE **B**

BRACKET  
(REF FIG. 3-3, ITEM 180)



**ECS Controller Installation  
Figure 12-2 (Sheet 4)**

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P/P BUILDUP FIGURE 12-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-2		<b>ECS CONTROLLER INSTALLATION (FIGURE 12-2, SHEET 4)</b>		
		ATTACH AND SECURE BONDING JUMPERS (87 THRU 87B) BETWEEN PRV CONTROLLER (55), HP VALVE CONTROLLER (15), AND BRACKET (REF: BRACKET INSTALLATION - LEFT SIDE CORE CASE/Figure 3-3 , ITEM 180) USING FASTENERS (88 THRU 91B).		
87	BACJ40AD45-9	. JUMPER		1
87	BACJ40AD45-8	. JUMPER (REPLACED BY BACJ40AD45-9)	LTD	-
87A	BACJ40AD45-14	. JUMPER		1
87B	BACJ40AD44-19	. JUMPER		1
87B	BACJ40AD44-18	. JUMPER (REPLACED BY BACJ40AD44-19)	LTD	-
88	BACS12HN4U6	. SCREW		2
88A	BACS12HN3U7	. SCREW		3
89	NAS1149C0363R	. WASHER		1
89A	NAS1149C0332R	. WASHER		4
89B	NAS1149C0432R	. WASHER		2
90	BACN10YR3C	. NUT		5
90A	BACN10YR4C	. NUT		2
91	BACC10GT1-06	. CLAMP		3
91A	BACC10GT2-06	. CLAMP SHELL		6
91B	TA025041-( )	. CLAMP		3

**71-00-02**

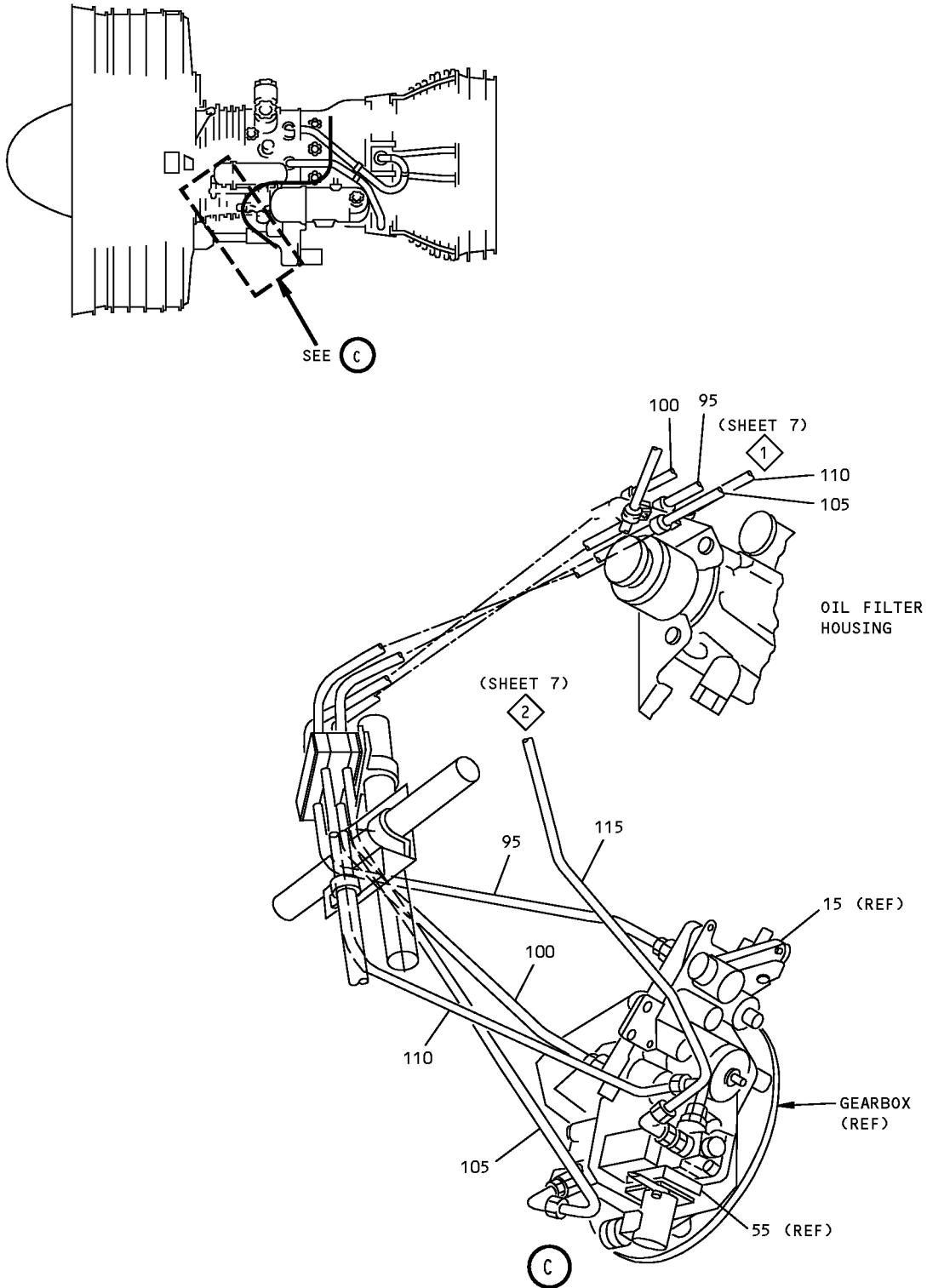
P/P BUILDUP FIGURE 12-2

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**ECS Controller Installation  
Figure 12-2 (Sheet 5)**

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P/P BUILDUP FIGURE 12-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-2		<b>ECS CONTROLLER INSTALLATION (FIGURE 12-2, SHEET 5)</b>		
		ATTACH TUBES (95, 100) TO HP VALVE CONTROLLER (15) AND POSITION ON ENGINE.		
95	332T4340-28	. TUBE ASSY <sup>[2]</sup>		1
95	332T4340-17	. TUBE ASSY (REPLACED BY 332T4340-28) (1 REQD) <sup>[2]</sup>	LTD	-
95	332T4340-9	. TUBE ASSY (REPLACED BY 332T4340-17) (1 REQD) <sup>[2]</sup>	LTD	-
100	332T4340-27	. TUBE ASSY <sup>[2]</sup>		1
100	332T4340-16	. TUBE ASSY (REPLACED BY 332T4340-27) (1 REQD) <sup>[2]</sup>	LTD	-
100	332T4340-8	. TUBE ASSY (REPLACED BY 332T4340-16) (1 REQD) <sup>[1]</sup>	LTD	-
		ATTACH TUBE ASSYS (105 THRU 115) TO PRV CONTROLLER (55) AND POSITION ON ENGINE.		
105	332T4340-30	. TUBE ASSY <sup>[2]</sup>		1
105	332T4340-19	. TUBE ASSY (REPLACED BY 332T4340-30) (1 REQD) <sup>[2]</sup>	LTD	-
105	332T4340-10	. TUBE ASSY (REPLACED BY 332T4340-19) (1 REQD) <sup>[1]</sup>	LTD	-
110	332T4340-29	. TUBE ASSY <sup>[2]</sup>		1
110	332T4340-18	. TUBE ASSY (REPLACED BY 332T4340-29) (1 REQD) <sup>[2]</sup>	LTD	-
110	332T4340-7	. TUBE ASSY (REPLACED BY 332T4340-18) (1 REQD) <sup>[1]</sup>	LTD	-
115	332T4340-31	. TUBE ASSY <sup>[2]</sup>		1
115	332T4340-20	. TUBE ASSY (REPLACED BY 332T4340-31) (1 REQD) <sup>[2]</sup>	LTD	-
115	332T4340-13	. TUBE ASSY (REPLACED BY 332T4340-20) (1 REQD) <sup>[1]</sup>	LTD	-
115	332T4340-12	. TUBE ASSY (REPLACED BY 332T4340-13) (1 REQD) <sup>[1]</sup>	LTD	-
		*[1] USED WITH 332T4341-1 BRACKET		
		*[2] USED WITH 332T4341-9 BRACKET		

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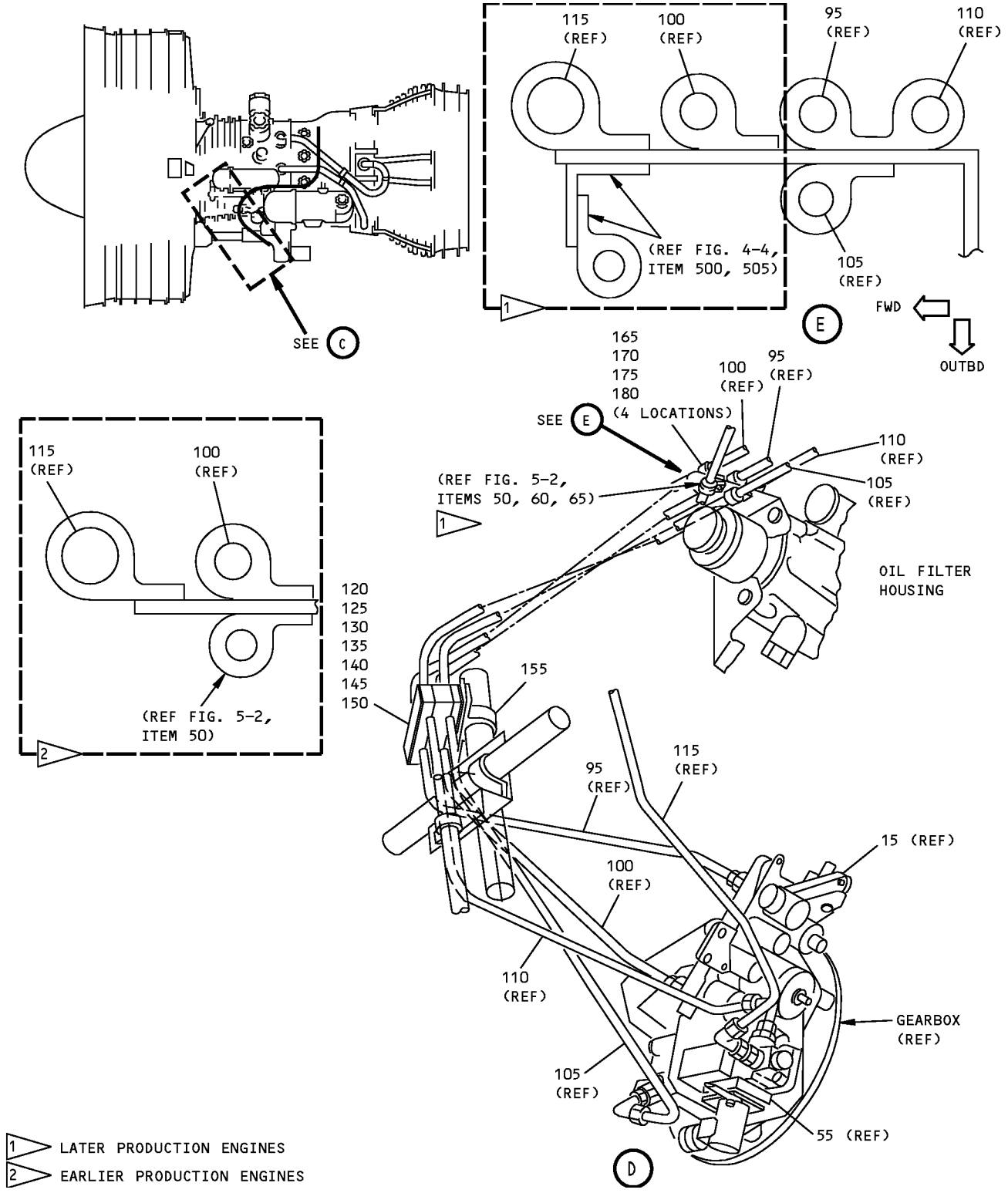
P/P BUILDUP FIGURE 12-2

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1 LATER PRODUCTION ENGINES  
2 EARLIER PRODUCTION ENGINES

ECS Controller Installation  
Figure 12-2 (Sheet 6)

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-2		<b>ECS CONTROLLER INSTALLATION (FIGURE 12-2, SHEET 6)</b>		
		SECURE TUBES (95 THRU 110) WITH ITEMS (120 THRU 180).		
120	65B80254-115	. BLOCK		1
125	65B80254-158	. CHANNEL		2
130	65B80254-67	. BLOCK		2
135	BACS12HN3-35	. SCREW		2
140	NAS43DD3-102FC	. SPACER		2
145	BACN10YR3C	. NUT		2
150	NAS1149D0332J	. WASHER		2
155	BACC10HT12	. CLAMP		1
165	BACC10HS06	. CLAMP		4
167	BACC10GT2-06	. CLAMPSHELL		8
170	BACS12HN3U10	. SCREW		2
175	NAS1149C0332R	. WASHER		2
180	BACN10YR3C	. NUT		2

**71-00-02**

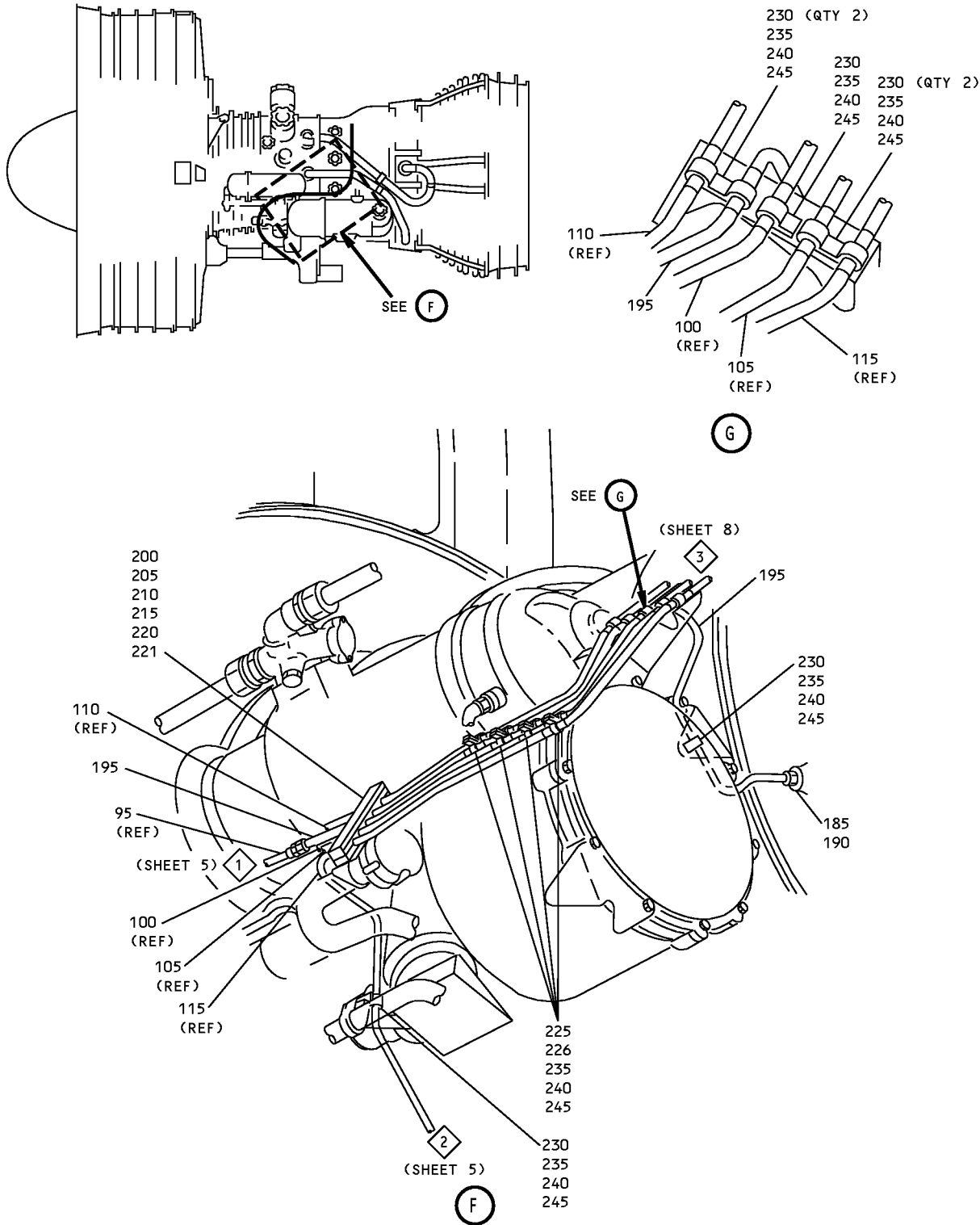
P/P BUILDUP FIGURE 12-2

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**ECS Controller Installation  
Figure 12-2 (Sheet 7)**

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P/P BUILDUP FIGURE 12-2

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-2		<b>ECS CONTROLLER INSTALLATION (FIGURE 12-2, SHEET 7)</b>		
		POSITION TUBE ASSY (195) BETWEEN DIFFUSER CASE UNION (185) AND TUBE ASSY (100).		
185	MS21902J6	. UNION (INSTALLED IN FIG 5-1)	REF	-
190	NAS1149C0963R	. WASHER (INSTALLED IN FIG 5-1)	REF	-
195	332T4340-33	. TUBE ASSY		1
195	332T4340-4	. TUBE ASSY (REPLACED BY 332T4340-33)	LTD	-
		SECURE TUBES (95, 105, 110, 115, 195) WITH ITEMS (200 THRU 245).		
200	312T3106-104	. BLOCK HALF		2
205	312T3106-136	. CHANNEL		1
205	312T3106-100	. CHANNEL (REPLACED BY 312T3106-136)	LTD	-
210	BACN10YR3C	. NUT		2
215	BACS12HN3-21	. SCREW		2
220	NAS43DD3-55FC	. SPACER		2
221	NAS1149D0332J	. WASHER		2
225	BACC10HS06	. CLAMP		8
226	BACC10GT2-06	. CLAMPSHELL		8
230	BACC10GT3-06	. CLAMPSHELL ASSY		7
230	BACC10GT1-06	. . CLAMP (QTY 1)		
230	BACC10GT2-06	. . CLAMPSHELL (QTY 2)		
235	BACS12HN3U8	. SCREW		9
240	NAS1149C0332R	. WASHER		9
245	BACN10YR3C	. NUT		9

**71-00-02**

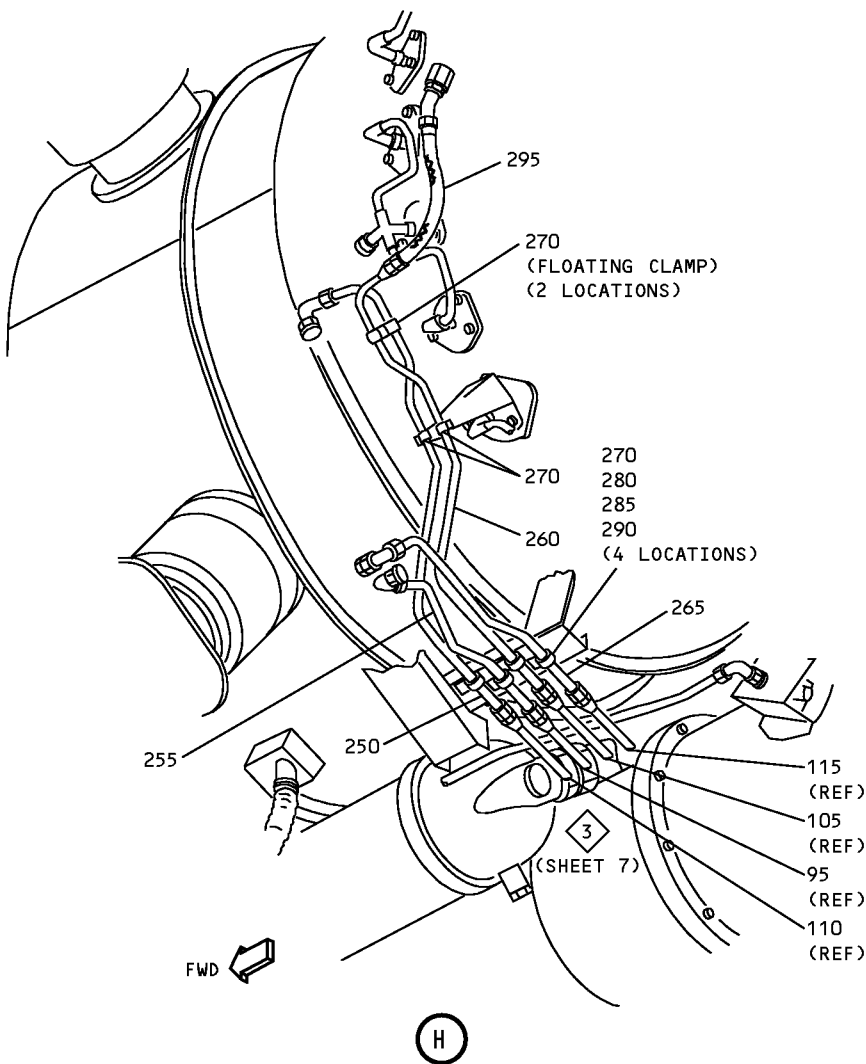
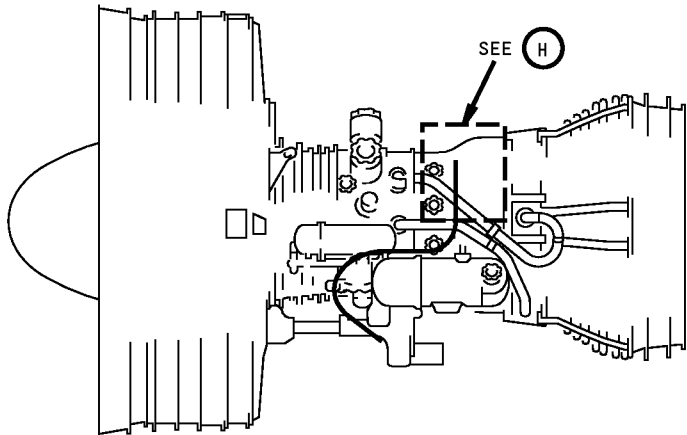
P/P BUILDUP FIGURE 12-2

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Figure 12-2 (Sheet 8)

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-2		<b>ECS CONTROLLER INSTALLATION (FIGURE 12-2, SHEET 8)</b>		
		ATTACH TUBES (250 THRU 265) TO TUBES (95, 105, 110, 115) AND SECURE WITH ITEMS (270 THRU 290).		
250	332T4340-21	. TUBE ASSY		1
250	332T4340-2	. TUBE ASSY (REPLACED BY 332T4340-21)	LTD	-
255	332T4340-32	. TUBE ASSY		1
255	332T4340-3	. TUBE ASSY (REPLACED BY 332T4340-32)	LTD	-
260	332T4340-5	. TUBE ASSY		1
265	332T4340-6	. TUBE ASSY		1
270	BACC10GT3-06	. CLAMP ASSY		8
270	BACC10GT1-06	. . CLAMP (QTY 1)		
270	BACC10GT2-06	. . CLAMPSHELL (QTY 2)		
280	BACS12HN3U7	. SCREW		4
285	NAS1149C0332R	. WASHER		4
290	BACN10YR3C	. NUT		4
		ATTACH STRAIGHT END FITTING OF HOSE (295) TO TUBE ASSY (260). CAP ALL OPEN ENDS.		
295	16135-4	. HOSE (78570) (BOEING 60B90135-4)	VEN	-
295	60B90135-4	. HOSE		1
295	BACH5P0115CK-N	. HOSE (REPLACED BY 60B90135-4)	LTD	-

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P/P BUILDUP FIGURE 12-2

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FIGURE 12-3

# 8TH STAGE DUCT AND VALVE INSTALLATION

REF QEC TASK NO.: 12

REF DWG: 332T4320

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

**71-00-02**

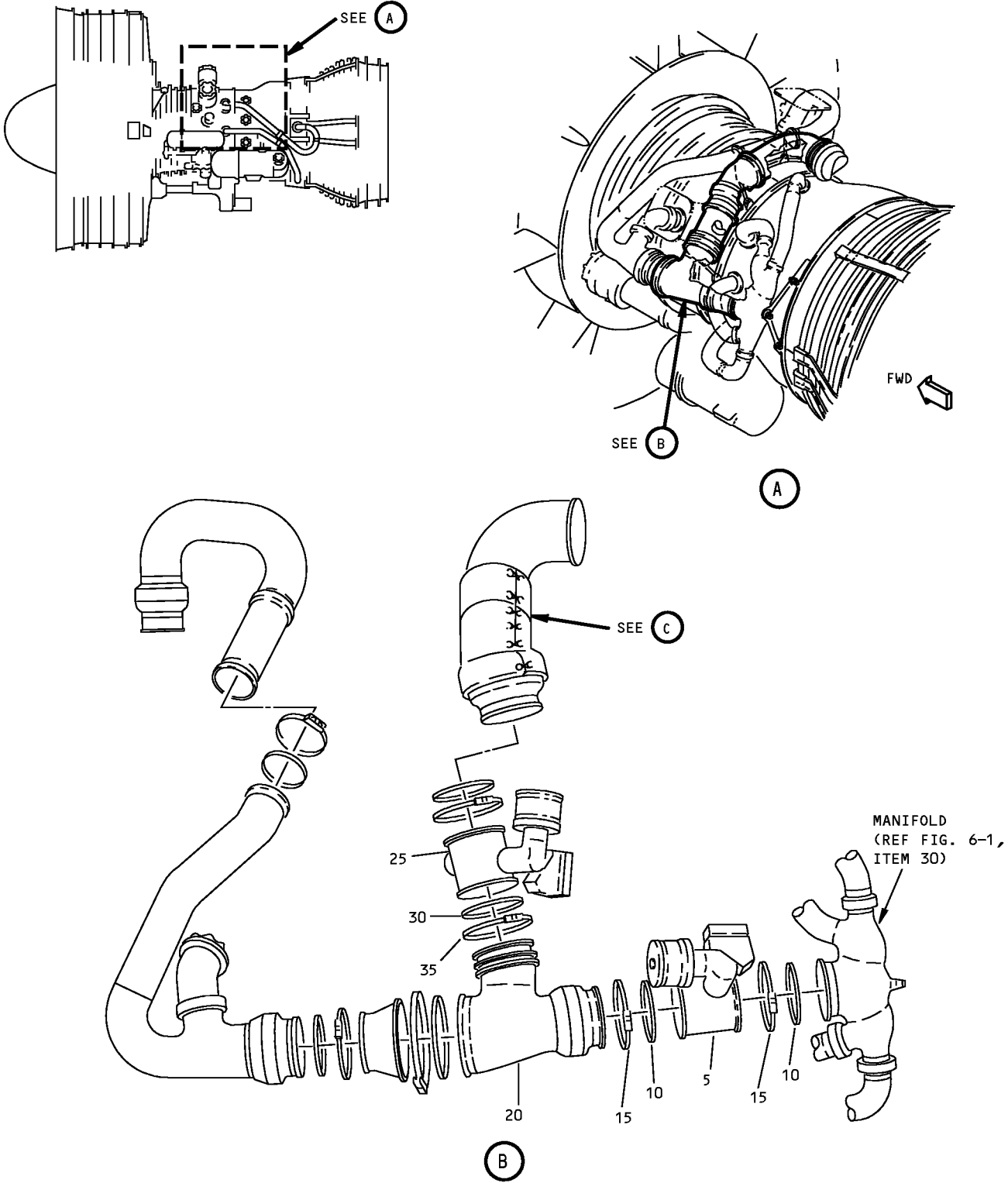
P/P BUILDUP FIGURE 12-3

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**8th-Stage Valve and Duct Installation**  
**Figure 12-3 (Sheet 1)**

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P/P BUILDUP FIGURE 12-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-3		<b>8TH-STAGE VALVE AND DUCT INSTALLATION (FIGURE 12-3, SHEET 1)</b>		
		ALIGN VALVE (5) AND SEAL (10) TO MANIFOLD (REF: 15TH STAGE MANIFOLD AND DUCT INSTALLATION/Figure 6-1 , ITEM 30) AND SECURE WITH CLAMP (15). DO NOT TIGHTEN. ALIGN MANIFOLD (20) AND SEAL (10) TO VALVE (5) AND SECURE WITH CLAMP (15). DO NOT TIGHTEN.		
5	802170-10	. VALVE (V73030) (BOEING S210T120-141)	VEN	-
5	802170-6	. VALVE (V73030) (BOEING S210T120-141)	VEN	-
5	S210T120-141	. VALVE		1
5	802170-4	. VALVE (V73030) (BOEING S210T120-131)	VEN	-
5	S210T120-131	. VALVE (REPLACED BY S210T120-141)	LTD	-
5	802170-1	. VALVE (V73030) (BOEING S210T120-111)	VEN	-
5	S210T120-111	. VALVE (REPLACED BY S210T120-131)	LTD	-
5	790270-2	. VALVE (V73030) (BOEING S210T120-101)	VEN	-
5	790270-1	. VALVE (V73030) (BOEING S210T120-101)	VEN	-
5	S210T120-101	. VALVE (REPLACED BY S210T120-111)	LTD	-
10	AS1895-7-550	. SEAL		2
10	2873-550	. SEAL (V15284) (REPLACED BY AS1895-7-550)	LTD	-
15	AS1895-1E550	. CLAMP		2
15	2320-550	. CLAMP (V15284)	OPT	-
20	332T4325-1	. MANIFOLD		1
		ALIGN VALVE (25) AND SEAL (30) TO MANIFOLD (20) AND SECURE WITH CLAMP (35). DO NOT TIGHTEN.		
25	802170-10	. VALVE (V73030) (BOEING S210T120-141)	VEN	-
25	802170-6	. VALVE (V73030) (BOEING S210T120-141)	VEN	-
25	S210T120-141	. VALVE		1
25	802170-4	. VALVE (V73030) (BOEING S210T120-131)	VEN	-
25	S210T120-131	. VALVE (REPLACED BY S210T120-141)	LTD	-
25	802170-1	. VALVE (V73030) (BOEING S210T120-111)	VEN	-
25	S210T120-111	. VALVE (REPLACED BY S210T120-131)	LTD	-
25	790270-2	. VALVE (V73030) (BOEING S210T120-101)	VEN	-
25	790270-1	. VALVE (V73030) (BOEING S210T120-101)	VEN	-
25	S210T120-101	. VALVE (REPLACED BY S210T120-111)	LTD	-
30	AS1895-7-550	. SEAL		1
30	2873-550	. SEAL (V15284) (REPLACED BY AS1895-7-550)	LTD	-
35	AS1895-1E550	. CLAMP		1
35	2320-550	. CLAMP (V15284)	OPT	-

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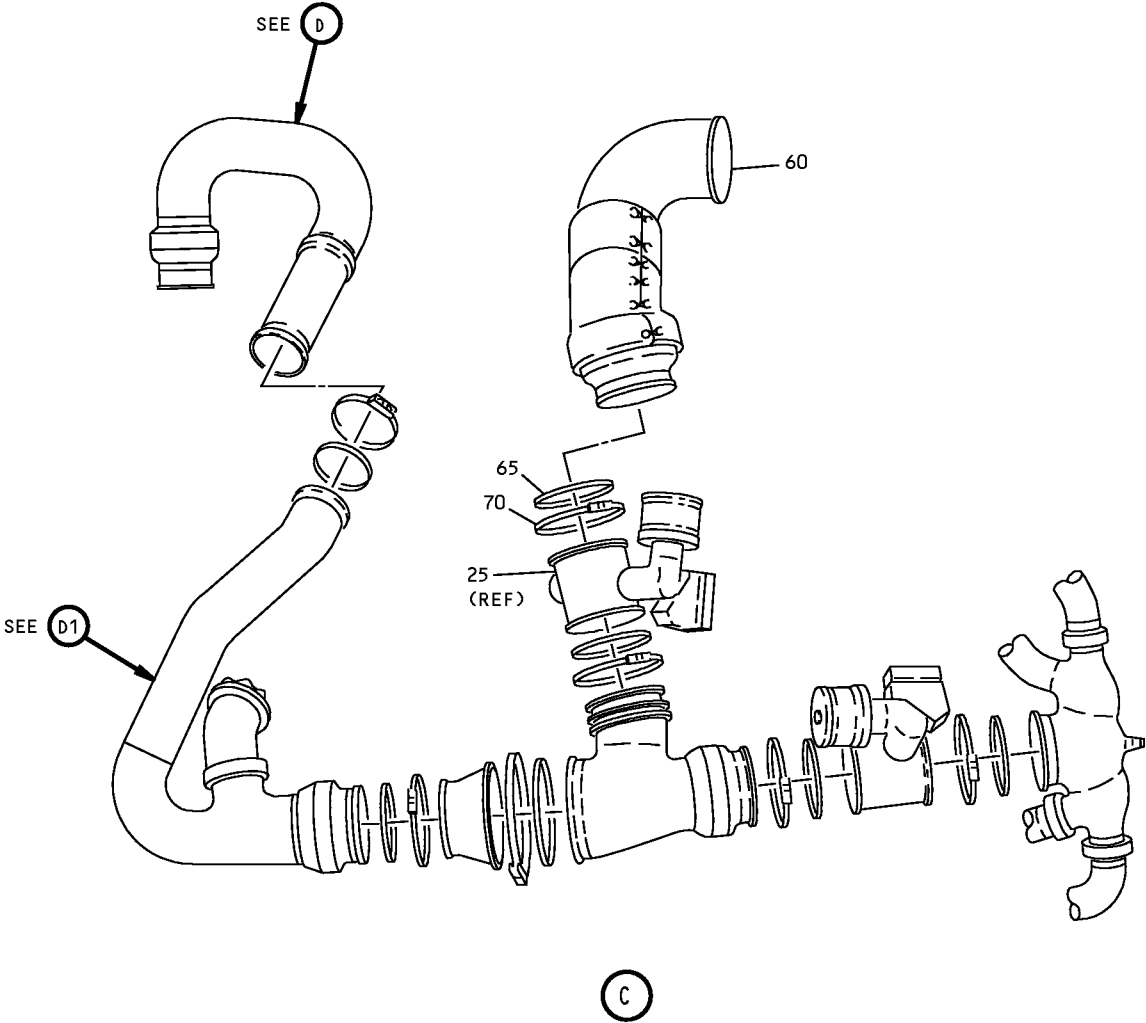
P/P BUILDUP FIGURE 12-3

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8th-Stage Valve and Duct Installation  
Figure 12-3 (Sheet 2)

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P/P BUILDUP FIGURE 12-3  
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ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-3		<p><b>8TH-STAGE VALVE AND DUCT INSTALLATION (FIGURE 12-3, SHEET 2)</b></p> <p>ALIGN DUCT (60) AND SEAL (65) TO VALVE (25), AND SECURE WITH CLAMP (70). DO NOT TIGHTEN. TEMPORARILY ATTACH DUCT ASSY (60) TO ALIGNMENT JIG WITH CLAMP (-75). WHEN JIG IS DISCONNECTED FROM ENGINE, PUT SEAL (-76) AND CLAMP (-75) IN A BAG AND ATTACH TO DUCT ASSY (60).</p> <p><b>NOTE:</b> ITEMS (-75) AND (-76) ARE INSTALLED WHEN THE POWERPLANT IS ATTACHED TO THE STRUT (AMM 71-00-02/401).</p>		
60	332T4320-3	. DUCT		1
65	AS1895-7-550	. SEAL		1
65	2873-550	. SEAL (V15284) (REPLACED BY AS1895-7-550)	LTD	-
70	AS1895-1E550	. CLAMP		1
70	2320-550	. CLAMP (V15284)	OPT	-
-75	AS1895-4-550	. CLAMP (ITEM NOT ILLUSTRATED)		1
-75	2703-550	. CLAMP (V15284) (ITEM NOT ILLUSTRATED)	OPT	-
-75	VR1025-550	. CLAMP (V14242) (ITEM NOT ILLUSTRATED)	OPT	-
-75	VR1047-550	. CLAMP (V14242) (ITEM NOT ILLUSTRATED)	OPT	-
-76	AS1895-7-550	. SEAL (ITEM NOT ILLUSTRATED)		1
-76	2873-550	. SEAL (V15284) (ITEM NOT ILLUSTRATED) (REPLACED BY AS1895-7-550)	LTD	-

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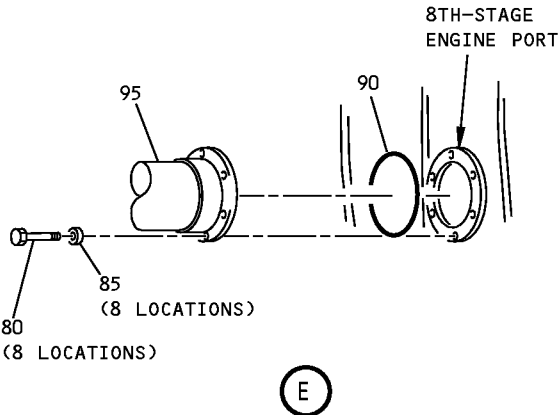
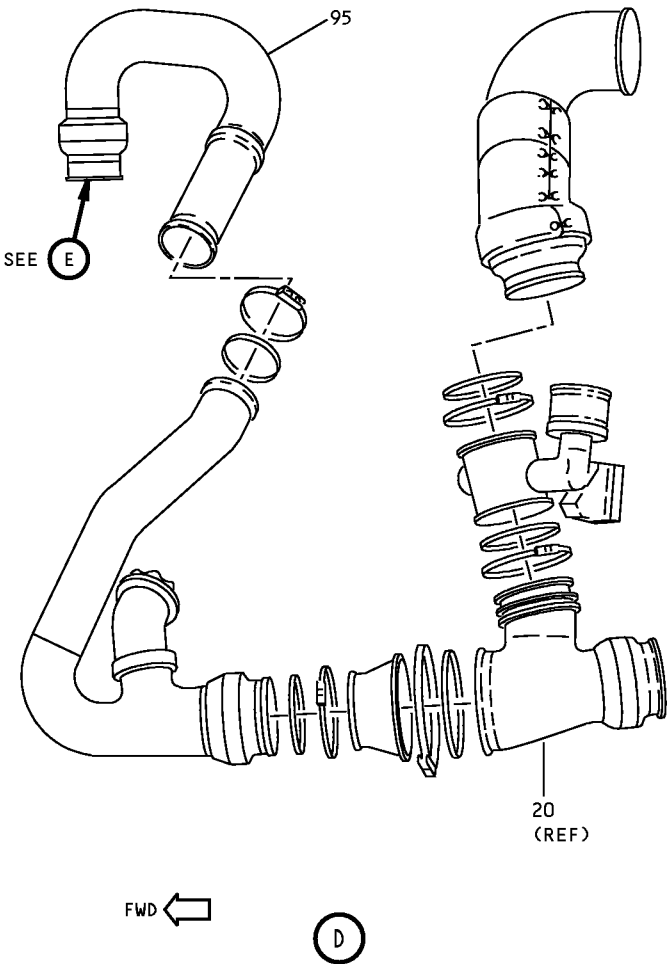
P/P BUILDUP FIGURE 12-3

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POWERPLANT BUILDUP MANUAL



8th-Stage Valve and Duct Installation  
Figure 12-3 (Sheet 3)

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-3		<p><b>8TH-STAGE VALVE AND DUCT INSTALLATION (FIGURE 12-3, SHEET 3)</b></p> <p>APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO THREADS OF BOLTS (80). ALIGN GASKET (90) AND DUCT (95) TO 8TH STAGE ENGINE PORT AND SECURE WITH ITEMS (80, 85). TIGHTEN BOLTS (80) TO 55-85 LB-IN. INSTALL cable, G02437 (C2) OR lockwire, G50003 [P05-287] (C3).</p> <p><b>NOTE:</b> GASKET (90) TAKES A PERMANENT SET WHEN INSTALLED AND IS NOT REUSABLE. DISCARD AND REPLACE WHENEVER FLANGE MOUNTING BOLTS ARE REMOVED.</p>		
80	BACB30LE4HU2	. BOLT		8
85	BACW10BP4ACU	. WASHER (POSITION COUNTERSINK TOWARDS BOLT HEAD)		8
90	MS9372-083	. GASKET		1
95	332T4327-5	. DUCT		1
95	332T4327-1	. DUCT (REPLACED BY 332T4327-5)	LTD	-
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND	CON	AR
C2	G02437	. CABLE	CON	AR
C3	G50003	. LOCKWIRE (P05-287)	CON	AR

**71-00-02**

P/P BUILDUP FIGURE 12-3

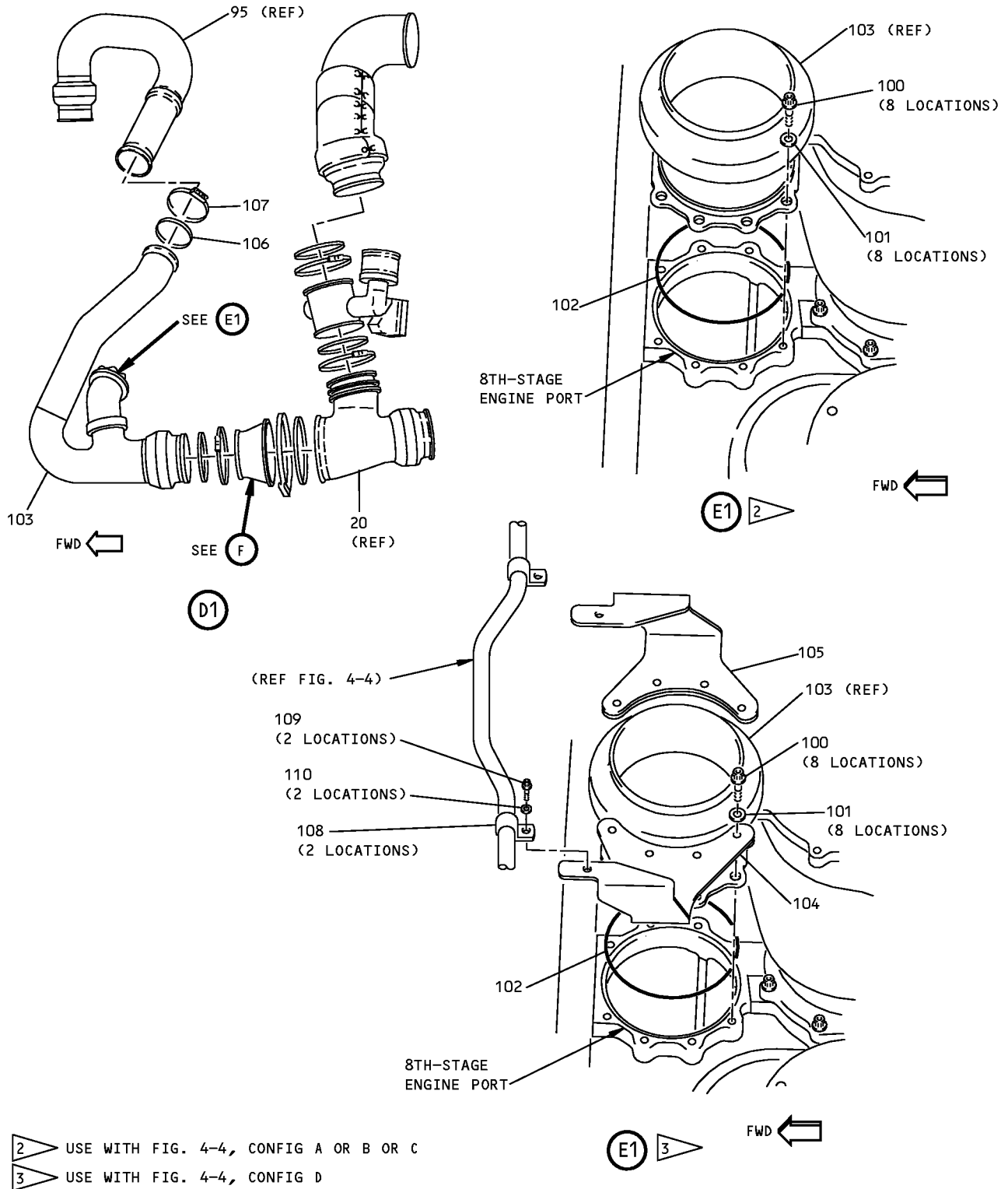
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8th-Stage Valve and Duct Installation  
Figure 12-3 (Sheet 4)

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P/P BUILDUP FIGURE 12-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-3		<b>8TH-STAGE VALVE AND DUCT INSTALLATION (FIGURE 12-3, SHEET 4)</b>		
		APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO THREADS OF BOLTS (100). ALIGN GASKET (102), MANIFOLD (103) AND BRACKET ASSYS (104, 105) ON 8TH STAGE ENGINE PORT. SECURE MANIFOLD (103) USING ITEMS (100, 101). DO NOT TIGHTEN BOLTS. CONNECT MANIFOLD (103) TO DUCT (95) USING ITEMS (106, 107). DO NOT TIGHTEN CLAMP. TIGHTEN BOLTS (100) TO 55-85 LB-IN. INSTALL cable, G02437 (C2) OR lockwire, G50003 [P05-287] (C3).		
100	BACB30LE4HU5	. BOLT <sup>[2]</sup>		8
100	BACB30LE4HU2	. BOLT (8 REQD) <sup>[1]</sup>	LTD	-
101	BACW10BP4ACU	. WASHER (POSITION COUNTERSINK TOWARDS BOLT HEAD)		8
102	MS9372-083	. GASKET		1
103	332T4326-1	. MANIFOLD		1
104	332T4922-685	. BRACKET ASSY <sup>[2]</sup>		1
105	332T4922-686	. BRACKET ASSY <sup>[2]</sup>		1
106	AS1895-7-400	. SEAL		1
106	2873-400	. SEAL (V15284) (REPLACED BY AS1895-7-400)	LTD	-
107	2703-400	. CLAMP (V15284)	VEN	1
107	VR1025-400	. CLAMP (V14242)	OPT	-
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND	CON	AR
C2	G02437	. CABLE	CON	AR
C3	G50003	. LOCKWIRE (P05-287)	CON	AR
		<u>ENGINES POST-SB 747-71-2303/767-71-0104;</u>		
		SECURE STRUT DRAIN TUBE TO BRACKETS (104, 105) USING ITEMS (108 THRU 110).		
108	TA027016-06	. CLAMP (V84971) <sup>[2]</sup>	VEN	2
109	BACS12HN3U8	. BOLT <sup>[2]</sup>		2
110	NAS1149C0332R	. WASHER <sup>[2]</sup>		2
		*[2] USE WITH OVERBOARD STRUT DRAIN INSTALLATION/Figure 4-4, CONFIG D (POST-SB 747-71-2303/767-71-0104)		
		*[1] USE WITH OVERBOARD STRUT DRAIN INSTALLATION/Figure 4-4, CONFIG A, B OR C (PRE-SB 747-71-2303/767-71-0104)		

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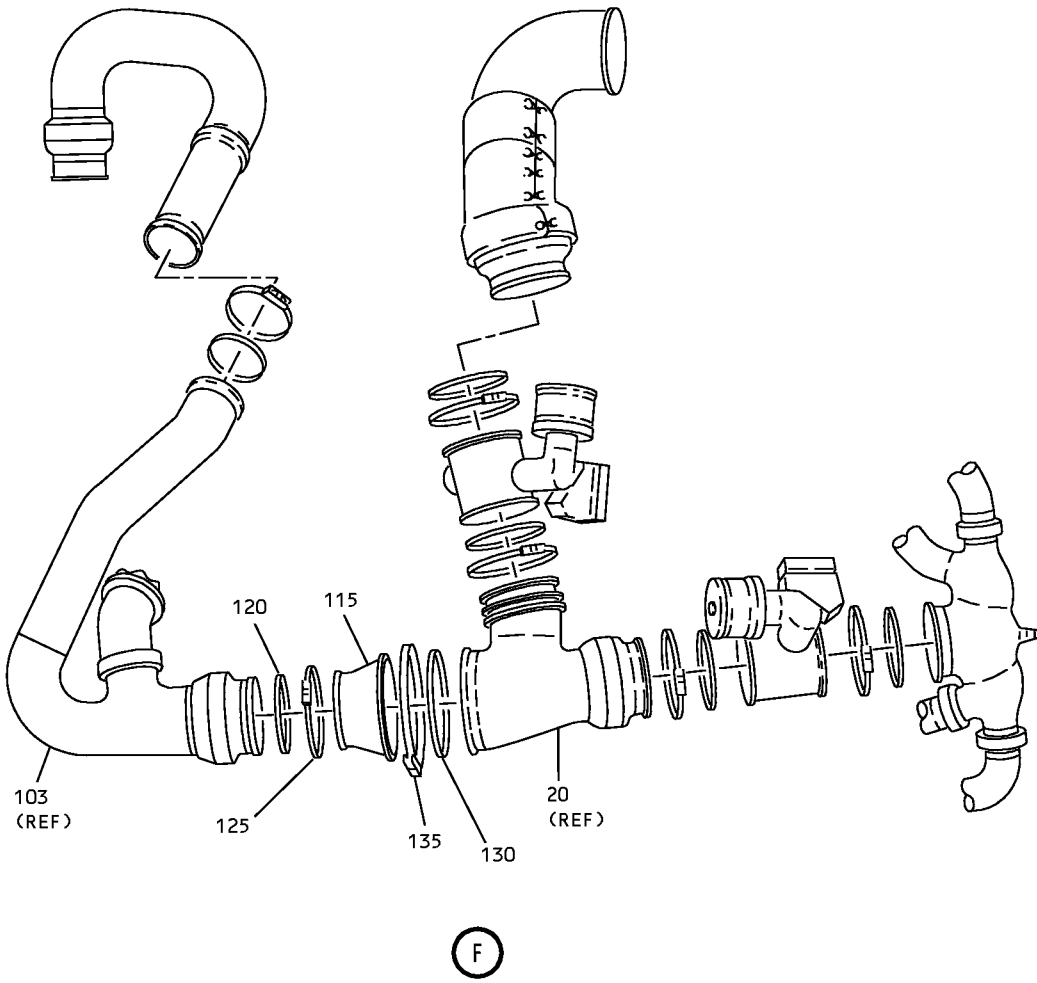
P/P BUILDUP FIGURE 12-3

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**8th-Stage Valve and Duct Installation  
Figure 12-3 (Sheet 5)**

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P/P BUILDUP FIGURE 12-3  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-3		<b>8TH-STAGE VALVE AND DUCT INSTALLATION (FIGURE 12-3, SHEET 5)</b>		
		ALIGN CHECK VALVE (115) AND SEALS (120, 130) TO MANIFOLDS (20, 103). POSITION THE ADJUSTMENT SCREW OF CLAMP (135) AT APPROXIMATELY 6:00 POSITION. INSTALL CLAMPS (125,135). DO NOT TIGHTEN.		
115	808556-1	. CHECK VALVE (V73030) (BOEING S210T120-126)	VEN	-
115	S210T120-126	. CHECK VALVE		1
115	773856-15	. CHECK VALVE (V73030) (BOEING S210T120-116)	VEN	-
115	S210T120-116	. CHECK VALVE	OPT	-
115	3202544-1	. CHECK VALVE (V59364) (BOEING S210T120-506)	VEN	-
115	3202544-2	. CHECK VALVE (V59364) (BOEING S210T120-506)	VEN	-
115	3202544-4	. CHECK VALVE (V59364) (BOEING S210T120-506)	VEN	-
115	S210T120-506	. CHECK VALVE	OPT	-
115		. CHECK VALVE (BOEING S210T120-516)	VEN	-
115	S210T120-516	. CHECK VALVE (REPLACED BY S210T120-126)	LTD	-
115	773856-14	. CHECK VALVE (V73030) (BOEING S210T120-86)	VEN	-
115	S210T120-86	. CHECK VALVE (REPLACED BY S210T120-126)	LTD	-
115	773856-13	. CHECK VALVE (V73030) (BOEING S210T120-76)	VEN	-
115	S210T120-76	. CHECK VALVE (REPLACED BY S210T120-76)	LTD	-
120	AS1895-7-550	. SEAL		1
120	2873-550	. SEAL (V15284) (REPLACED BY AS1895-7-550)	LTD	-
125	AS1895-4-550	. CLAMP		1
125	2703-550	. CLAMP (V15284)	OPT	-
125	VR1025-550	. CLAMP (V14242)	OPT	-
125	VR1047-550	. CLAMP (V14242)	OPT	-
130	2873-750	. SEAL (V15284)	VEN	1
135	6354-750	. CLAMP (V15284)	VEN	1

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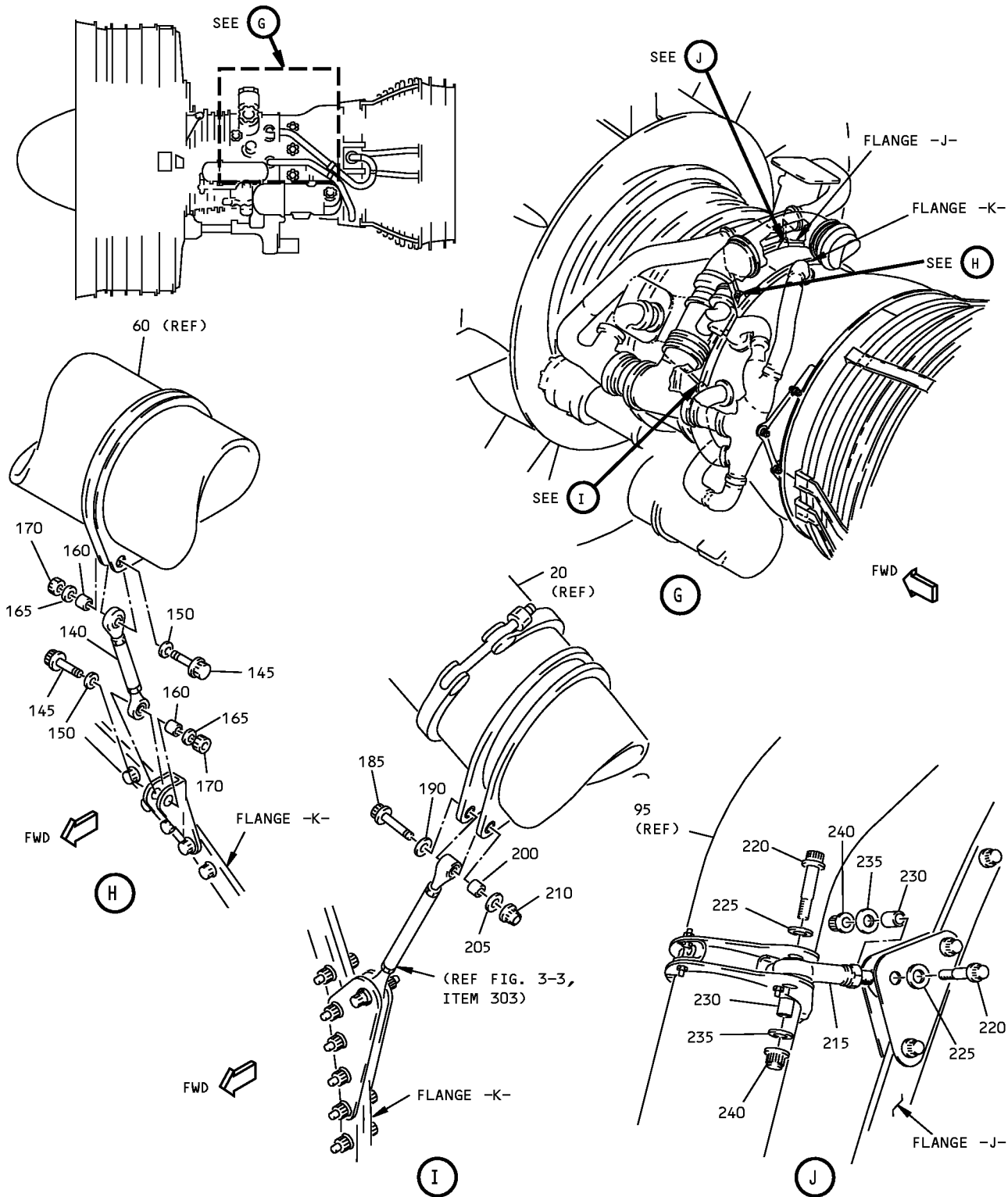
P/P BUILDUP FIGURE 12-3

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8th Stage Valve and Duct Installation  
Figure 12-3 (Sheet 6)

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P/P BUILDUP FIGURE 12-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-3		<b>8TH STAGE VALVE AND DUCT INSTALLATION (FIGURE 12-3, SHEET 6)</b>		
		ADJUST LINK ASSY (140) TO CENTER-TO-CENTER DIMENSION OF 3.76 INCHES.		
		ATTACH LINK (140) TO UPPER FLANGE -K- BRACKET AND TO DUCT (60) USING ITEMS (145 THRU 170).		
140	312T2359-23	. LINK ASSY		1
145	BACB30PN4-13	. BOLT		2
150	BACW10BP4ACU	. WASHER (POSITION COUNTERSINK TOWARDS BOLT HEAD)		2
160	BACB28AK04-030	. BUSHING		2
165	NAS1149C0463R	. WASHER		2
170	BACN11Z4C	. NUT		2
170	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)	OPT	-
		ATTACH LINK (REF: BRACKET INSTALLATION - LEFT SIDE CORE CASE/Figure 3-3, ITEM 303) TO MANIFOLD (20) USING ITEMS (185 THRU 210).		
185	BACB30PN6-20	. BOLT		1
190	BACW10BP6ACU	. WASHER (POSITION COUNTERSINK TOWARDS BOLT HEAD)		1
200	BACB28AK06-046	. BUSHING		1
205	NAS1149C0663R	. WASHER		1
210	BACN11Z6C	. NUT		1
210	BACN11Z6CK	. NUT (OPTIONAL TO BACN11Z6C)	OPT	-
		ADJUST LINK (215) TO CENTER-TO-CENTER DIMENSION OF 2.67 INCHES.		
		ATTACH LINK (215) TO FLANGE -J- BRACKET AND TO DUCT (95) USING ITEMS (220 THRU 240). LOCKWIRE LINKS (140, 175, 215)		
215	332T4320-2	. LINK		1
220	BACB30PN4-13	. BOLT		2
225	BACW10BP4ACU	. WASHER (POSITION COUNTERSINK TOWARDS BOLT HEAD)		2
230	BACB28AK04-030	. BUSHING		2
235	NAS1149C0463R	. WASHER		2
240	BACN11Z4C	. NUT		2
240	BACN11Z4CK	. NUT (OPTIONAL TO BACN11Z4C)	OPT	-

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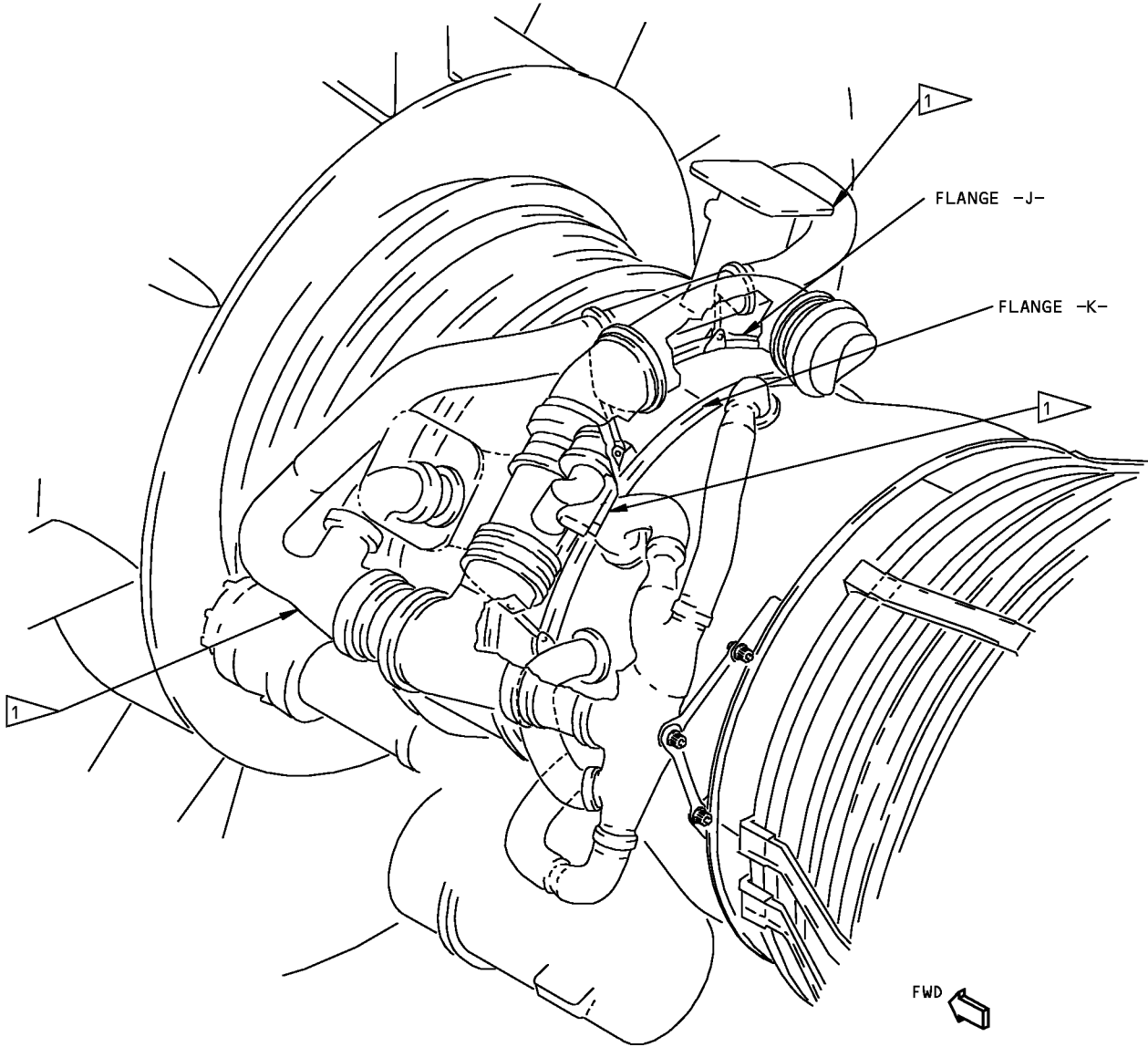
P/P BUILDUP FIGURE 12-3

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 MAINTAIN REQUIRED CLEARANCE

**8th-Stage Valve and Duct Installation  
Figure 12-3 (Sheet 7)**

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P/P BUILDUP FIGURE 12-3  
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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-3		<p><b>8TH-STAGE VALVE AND DUCT INSTALLATION (FIGURE 12-3, SHEET 7)</b></p> <p>ADJUST CLEARANCES BETWEEN DUCT (95) AND 2.9 BLEED VALVE TO 0.30-0.65 INCH.</p> <p>ADJUST CLEARANCES BETWEEN MANIFOLD (103) AND ENGINE FUEL-OIL COOLER TO 0.37-0.87 INCH.</p> <p>TIGHTEN CLAMP (107) TO 100-115 LB-IN. AND CLAMPS (15, 125, 135) TO 110-125 LB-IN.</p> <p>ADJUST CLEARANCE BETWEEN VALVE (25) AND MANIFOLD TO 0.37-0.87 INCH.</p> <p>TIGHTEN CLAMPS (35, 70) TO 110-125 LB-IN.</p>		

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P/P BUILDUP FIGURE 12-3

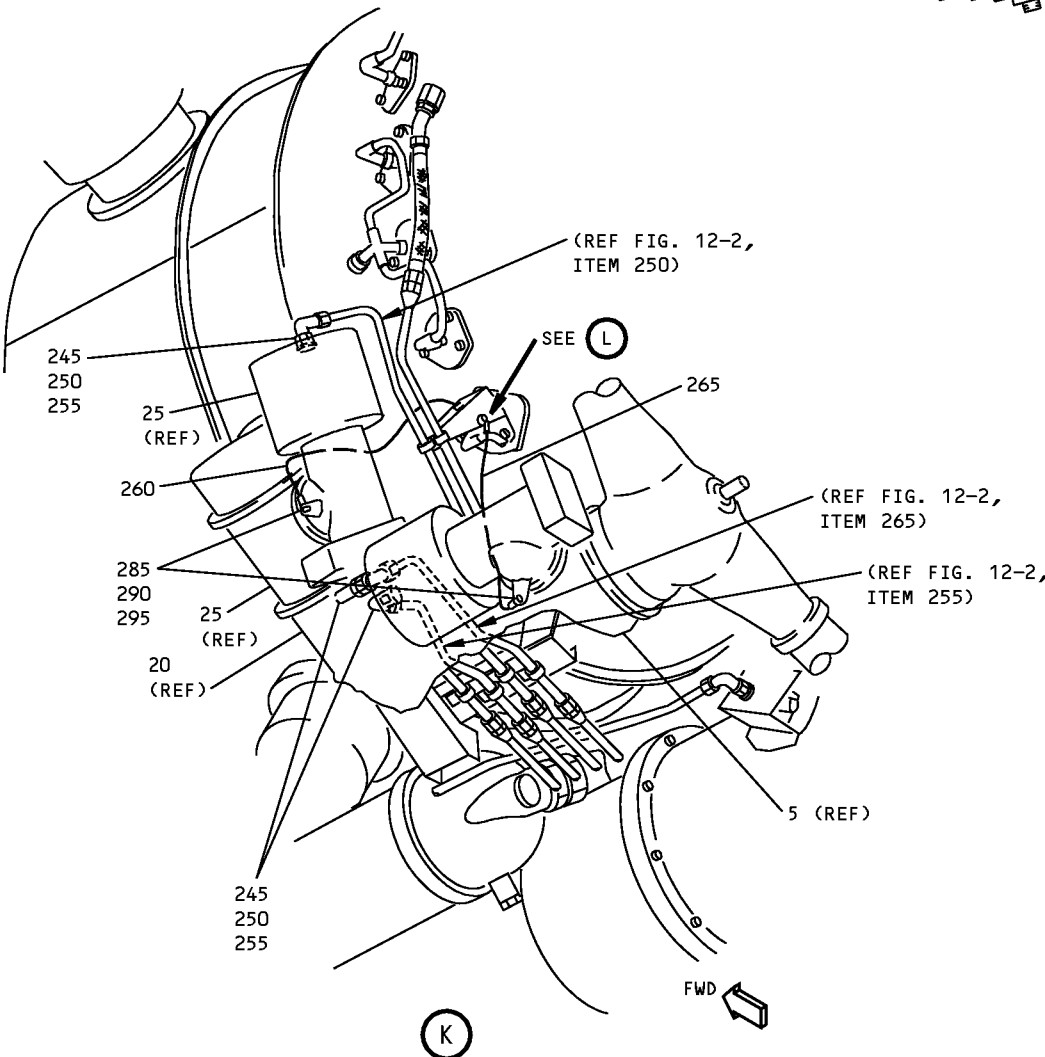
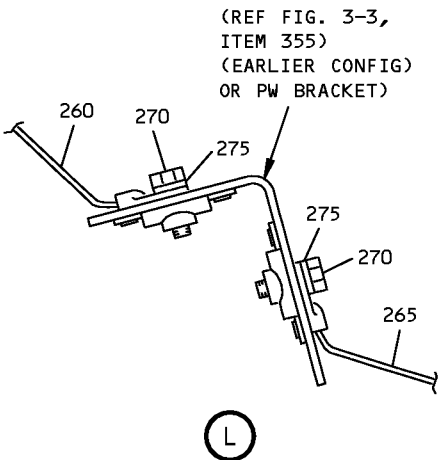
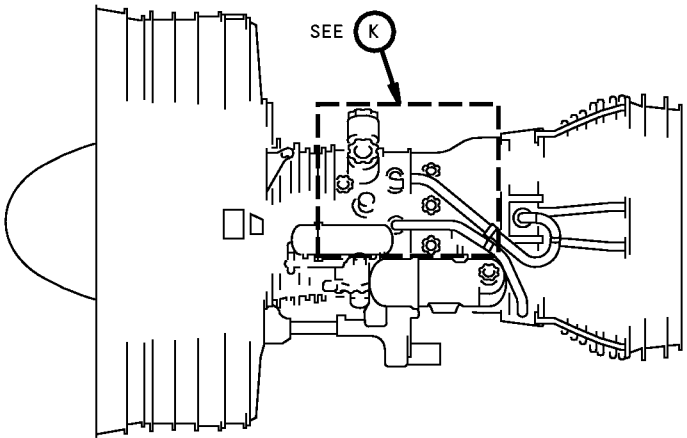
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**POWERPLANT BUILDUP MANUAL**



**8th-Stage Duct and Valve Installation  
Figure 12-3 (Sheet 8)**

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P/P BUILDUP FIGURE 12-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-3		<b>8TH-STAGE DUCT AND VALVE INSTALLATION (FIGURE 12-3, SHEET 8)</b>  INSTALL ITEMS (245 THRU 255) IN VALVES (5, 25) AND MANIFOLD (20). CONNECT TUBES (REF: ECS CONTROLLER INSTALLATION/Figure 12-2 , ITEMS 250, 255, 265) TO UNIONS (250).  ATTACH JUMPERS (260, 265) BETWEEN VALVES (5, 25) AND BRACKET (REF :BRACKET INSTALLATION - LEFT SIDE CORE CASE/Figure 3-3 , ITEM 355 (EARLIER CONFIG) OR PW BRACKET) USING FASTENERS (270 THRU 295).		
245	BACE21BT0606JN	. ELBOW		3
245	BACE21BT0606J	. ELBOW (REPLACED BY BACE21BT0606JN)	LTD	-
245	BACE21AW0606M	. ELBOW (REPLACED BY BACE21BT0606J)	LTD	-
250	MS21902J6	. UNION		3
255	BACP11K6	. PACKING		3
260	BACJ40AD45-11	. JUMPER		1
265	BACJ40AD45-12	. JUMPER		1
270	BACS12HN3U8	. SCREW		2
275	NAS1149C0332R	. WASHER		2
285	BACS12HN4U7	. SCREW		2
290	NAS1149C0432R	. WASHER		2
295	BACN10YR4C	. NUT		2

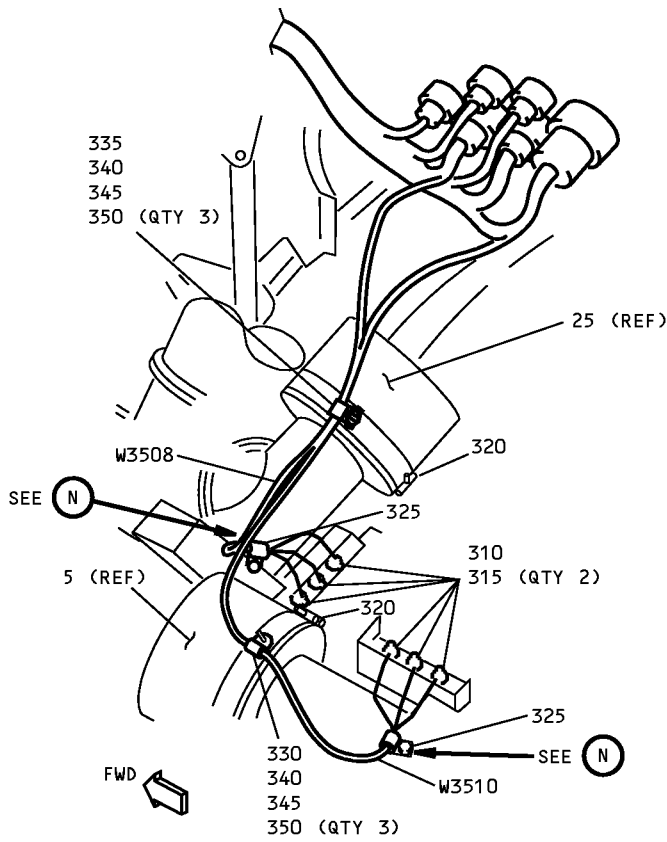
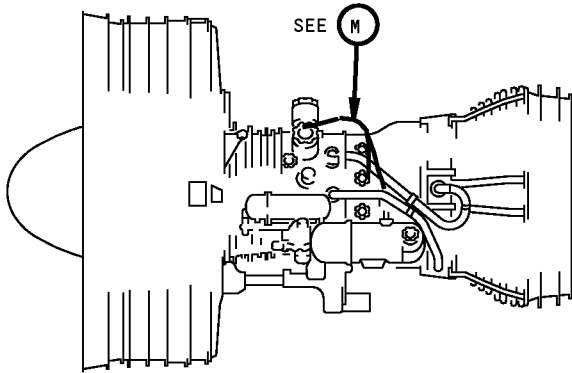
**71-00-02**

P/P BUILDUP FIGURE 12-3

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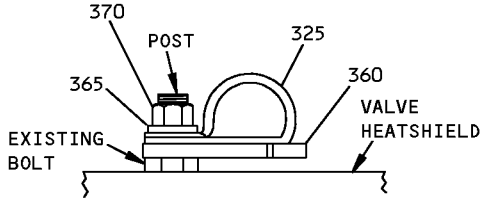
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ENGINES WITH S210T120-141 VALVE (CONFIG B)

M



ALTERNATE CLAMP CONFIGURATION

N

8th-Stage Duct and Valve Installation Figure 12-3 (Sheet 9)

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P/P BUILDUP FIGURE 12-3

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-3		<b>8TH-STAGE DUCT AND VALVE INSTALLATION (FIGURE 12-3, SHEET 9)</b>  <u>CONFIG B - ENGINES WITH S210T120-141 VALVE</u>  ATTACH WIRE BUNDLE W3510 TO VALVE (5) TERMINALS (V347) AND WIRE BUNDLE W3508 TO VALVE (25) TERMINALS (V352) USING ITEMS (310, 315).  . NUT  . WASHER (UNDER NUT/UNDER WIRE LUG)  ATTACH CLAMPS (320) TO VALVES (5, 25). TIGHTEN CLAMPS TO 30-40 LB-IN).  <b>NOTE:</b> REMOVE EXISTING LOCKWIRE FROM VALVE AS NECESSARY. AFTER CLAMPS (320) ARE ATTACHED, LOCKWIRE VALVE TO ORIGINAL CONFIGURATION.		
310	BACN10YR3C	. NUT		6
315	NAS1149C0332R	. WASHER (UNDER NUT/UNDER WIRE LUG)		12
320	BACC10GW0450-1E	. CLAMP		2
320	BACC10GW0475-1E	. CLAMP	OPT	-
		ATTACH WIRE BUNDLES TO VALVES (5, 25) USING CLAMPS (325) AND EXISTING FASTENERS. LOCKWIRE BOLT TO VALVE (5) HEATSHIELD. IF EXISTING BOLT HAS A POST, USE ALTERNATE CLAMP CONFIGURATION TO ATTACH W/B TO VALVES USING CLAMPS (325) AND ITEMS (360 THRU 370).		
		ATTACH WIRE BUNDLES TO CLAMPS (320) USING ITEMS (330 THRU 350).		
325	BACC10HS03	. CLAMP		2
330	BACC10HS05	. CLAMP		1
335	BACC10HS07	. CLAMP		1
340	BACN10YR3C	. NUT		2
345	NAS1149C0363R	. WASHER (UNDER NUT)		2
350	BACS18AF1	. SPACER (UNDER CLAMP)		6
360	BACS18AF1	. SPACER (UNDER CLAMP) <sup>[B]</sup>		2
365	NAS1149C0332R	. WASHER (UNDER NUT) <sup>[B]</sup>		2
370	BACN10YR3C	. NUT <sup>[B]</sup>		2
		*[B] ALTERNATE CLAMP CONFIGURATION		

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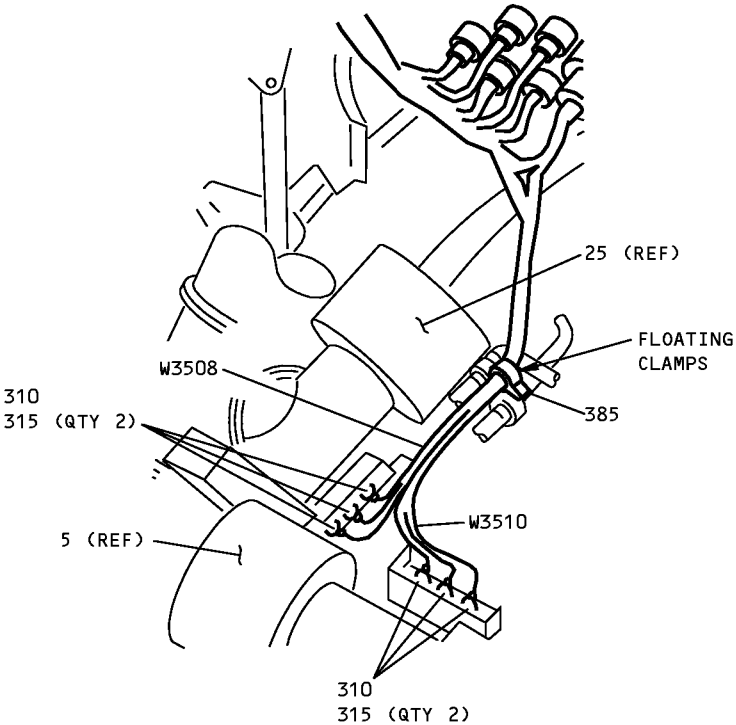
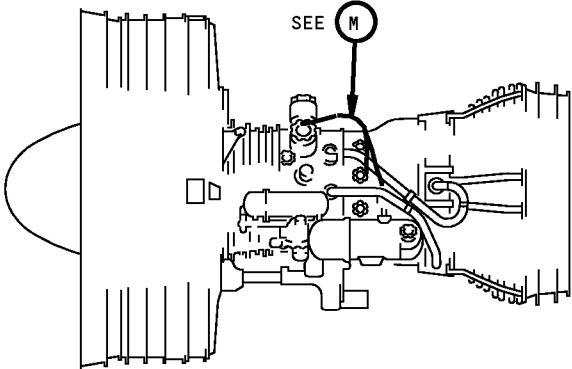
P/P BUILDUP FIGURE 12-3

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ENGINES BEFORE S210T120-141 VALVE  
(CONFIG A)



**8th-Stage Duct and Valve Installation  
Figure 12-3 (Sheet 10)**

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-3		<b>8TH-STAGE DUCT AND VALVE INSTALLATION (FIGURE 12-3, SHEET 10)</b>  <u>CONFIG A - ENGINES BEFORE S210T120-141 VALVE</u>  ATTACH WIRE BUNDLE W3510 TO VALVE (5) TERMINALS (V347) AND WIRE BUNDLE W3508 TO VALVE (25) TERMINALS (V352) USING ITEMS (310, 315).		
310	BACN10YR3C	. NUT (6 REQD)	LTD	-
310	BACN10HR3C	. NUT (REPLACED BY BACN10YR3C)	LTD	-
315	NAS1149C0332R	. WASHER (UNDER NUT/UNDER WIRE LUG) (12 REQD)	LTD	-
385	BACC10HS08	ATTACH WIRE BUNDLES TO FLOATING CLAMPS USING CLAMP (385) AND EXISTING FASTENERS. . CLAMP (1 REQD)	LTD	-

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P/P BUILDUP FIGURE 12-3

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FIGURE 12-4

# GEARBOX BREATHER SEAL INSTALLATION

REF QEC TASK NO.: 12

REF DWG: 332T4730

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

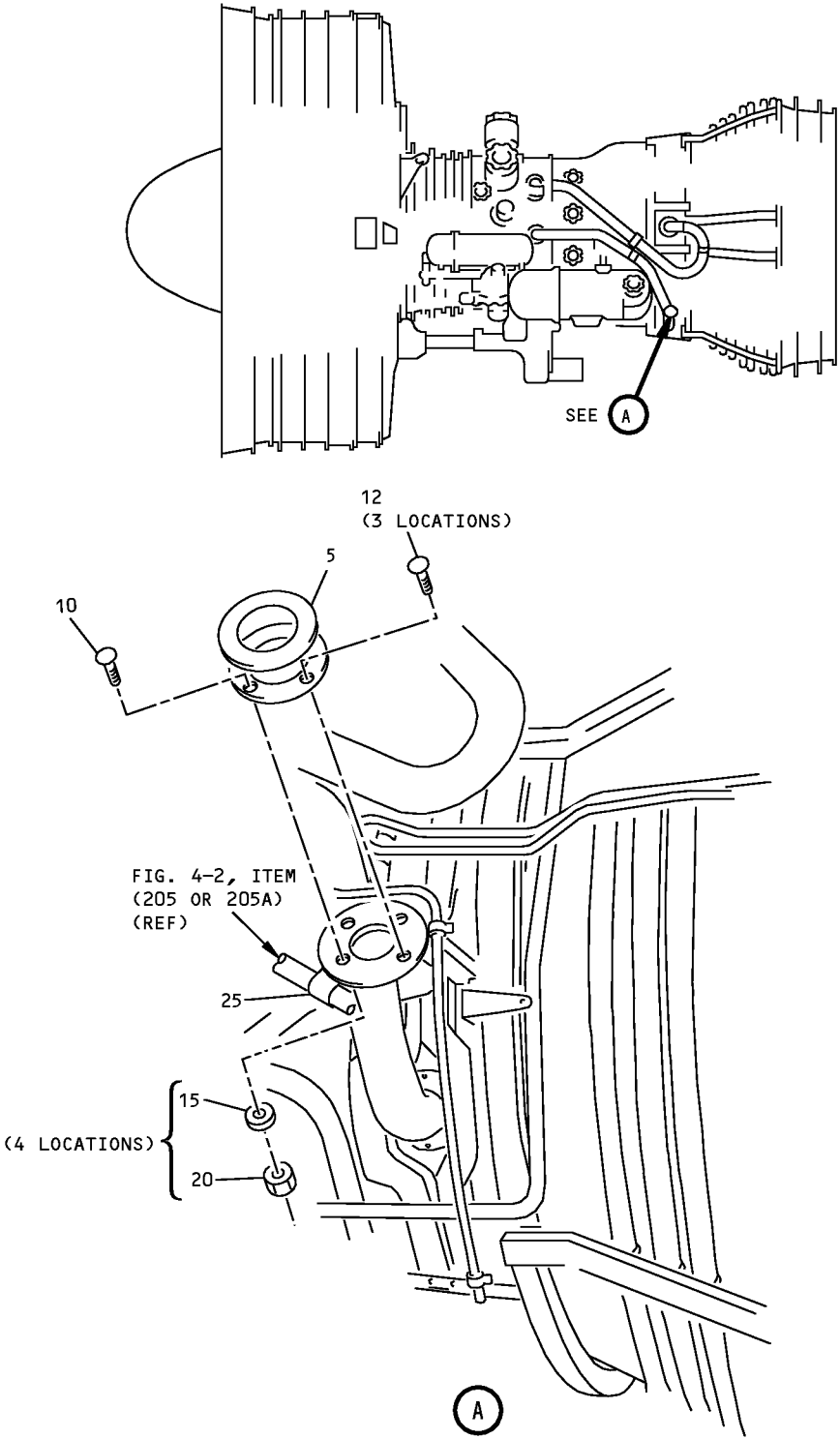
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P/P BUILDUP FIGURE 12-4

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**Gearbox Breather Seal Installation  
Figure 12-4 (Sheet 1)**

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P/P BUILDUP FIGURE 12-4

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-4		<b>GEARBOX BREATHER SEAL INSTALLATION (FIGURE 12-4, SHEET 1)</b>  INSTALL SEAL (5) ON OIL BREATHER TUBE USING ITEMS (10 THRU 20).  <u>ENGINES WITH OIL TANK FILLER CAP (INBOARD):</u>  ATTACH ENGINE OVERBOARD DRAIN INSTALLATION - LEFT SIDE/Figure 4-2, ITEM (205 OR 205A) TUBE TO UNDERSIDE OF OIL BREATHER TUBE FLANGE USING CLAMP (25).		
5	332T4730-17	. SEAL ASSY		1
5	332T4730-6	. SEAL ASSY (REPLACED BY 332T4730-17)	LTD	-
10	BACB30LH3-4	. BOLT		1
12	BACB30LH3-3	. BOLT		3
15	NAS1149C0332R	. WASHER		4
20	BACN10YR3C	. NUT		4
25	TA027016-06	. CLAMP		1

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P/P BUILDUP FIGURE 12-4

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FIGURE 12-5

# FIRE EXTINGUISHER INSTALLATION

REF QEC TASK NO.: 12

REF DWG: 332T4530  
332T4150

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

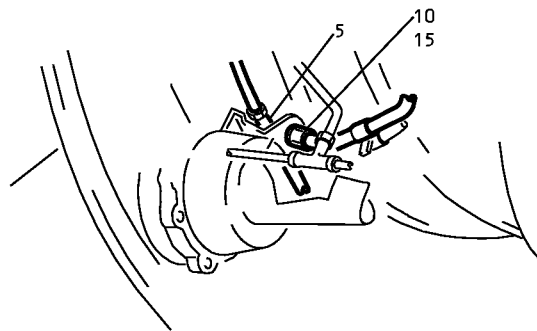
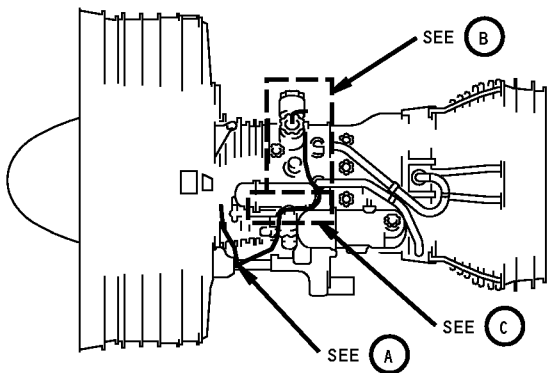
**71-00-02**

P/P BUILDUP FIGURE 12-5

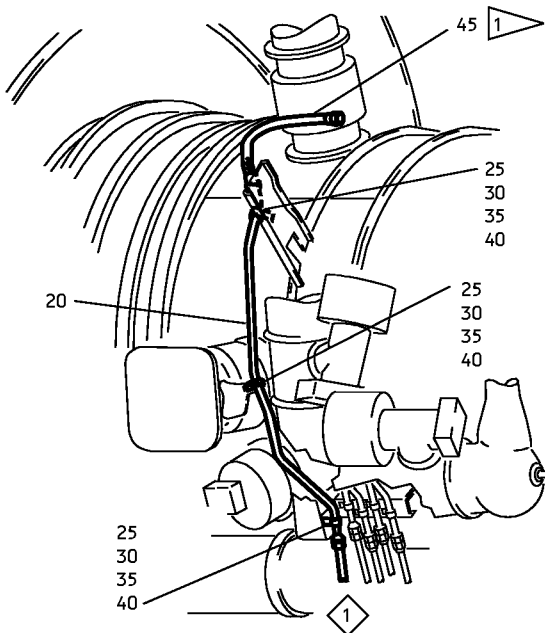
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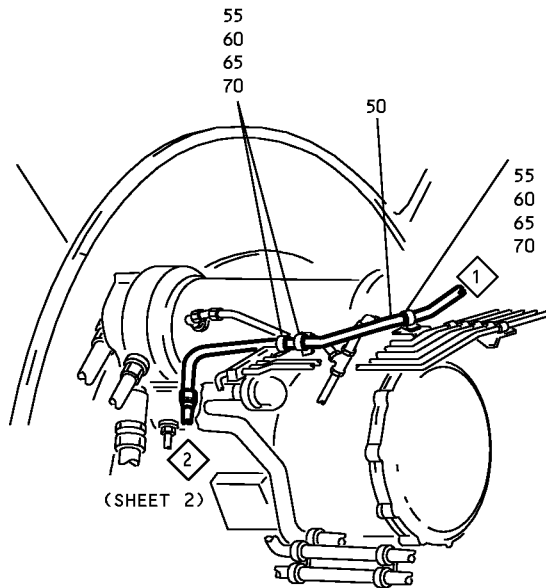
POWERPLANT BUILDUP MANUAL



(A)



(B)



(C)

1 OPTIONAL CONFIGURATION

Fire Extinguisher Installation  
Figure 12-5 (Sheet 1)

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P/P BUILDUP FIGURE 12-5

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-5		<b>FIRE EXTINGUISHER INSTALLATION (FIGURE 12-5, SHEET 1)</b>		
		INSTALL TEE FITTING (5) THROUGH BRACKET (REF: BRACKET INSTALLATION - LEFT SIDE CORE CASE/Figure 3-3 , ITEM 97) AND SECURE WITH ITEMS (10 THRU 15).		
5	332T4531-1	. TEE FITTING		1
10	NAS1149C1490R	. WASHER (UNDER JAM NUT)		1
15	AS5178J10	. NUT		1
		INSTALL TUBE ASSY (20) BETWEEN BRACKET (REF: BRACKET INSTALLATION - LEFT SIDE CORE CASE/Figure 3-3 , ITEM 250) AND BRACKET ABOVE OIL TANK AND SECURE LOOSELY WITH ITEMS (25 THRU 40).		
20	332T4531-24	. TUBE ASSY <sup>*[1]</sup>		1
20	332T4531-17	. TUBE ASSY (OPT) <sup>*[1]</sup>	OPT	-
25	TA027016-10	. CLAMP		3
25	BACC10HS10	. CLAMP (REPLACED BY TA027016-10)	LTD	-
30	BACS12HN3U8	. SCREW		3
35	BACN10YR3C	. NUT		3
40	NAS1149C0332R	. WASHER		3
		<u>OPTIONAL CONFIGURATION</u>		
		INSTALL FLEX HOSE ASSY (45) TO TUBE ASSY (20).		
45	106494-10-0120	. FLEX HOSE (V78570) <sup>*[1]</sup>	OPT	-
		INSTALL TUBE ASSY (50) TO TUBE ASSY (20) WITH TUBE NUT, POSITION OTHER END BELOW FUEL OIL COOLER AND SECURE LOOSELY WITH ITEMS (55 THRU 70).		
50	332T4530-5	. TUBE ASSY		1
55	TA027016-10	. CLAMP		3
55	BACC10HS10	. CLAMP (REPLACED BY TA027016-10)	LTD	-
60	BACS12HN3U8	. SCREW		3
65	BACN10YR3C	. NUT		3
70	NAS1149C0332R	. WASHER		3
		<sup>*[1]</sup> 332T4531-17 TUBE ASSY (20) TOGETHER WITH 106494-10-0120 FLEX HOSE (45) OPTIONAL TO 332T4531-24 TUBE ASSY (20).		

71-00-02

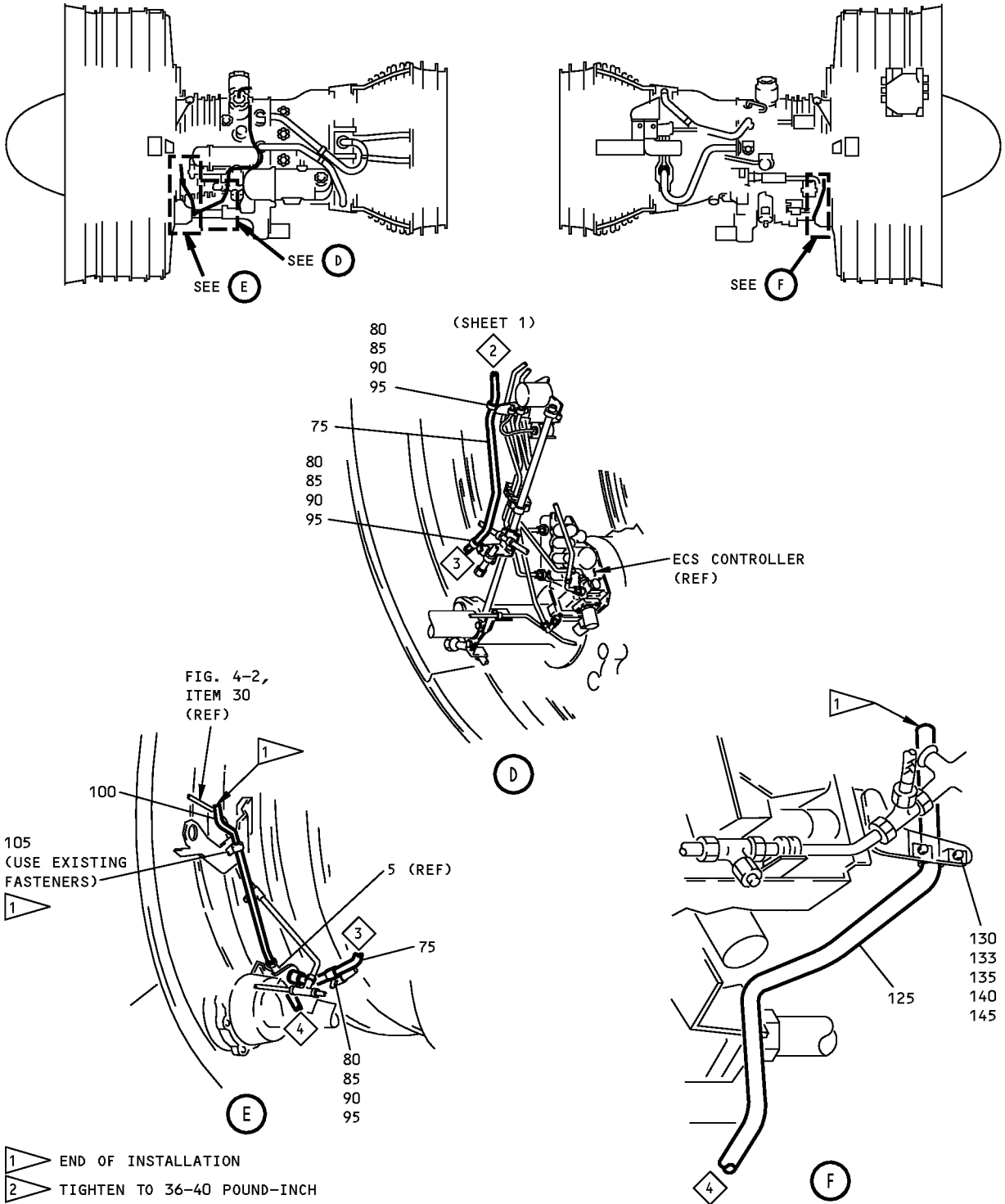
P/P BUILDUP FIGURE 12-5

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POWERPLANT BUILDUP MANUAL**



**Fire Extinguisher Installation  
Figure 12-5 (Sheet 2)**

**71-00-02**

P/P BUILDUP FIGURE 12-5

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
12-5		<b>FIRE EXTINGUISHER INSTALLATION (FIGURE 12-5, SHEET 2)</b>		
		INSTALL TUBE ASSY (75) TO TUBE ASSY (50) WITH TUBE NUT AND SECURE OTHER END OF TUBE TO AFT END OF TEE FITTING (5) WITH TUBE NUT. SECURE LOOSELY WITH ITEMS (80 THRU 95).		
75	332T4531-15	. TUBE ASSY		1
80	TA027016-10	. CLAMP		3
80	BACC10HS10	. CLAMP (REPLACED BY TA027016-10)	LTD	-
85	BACS12HN3U8	. SCREW		3
90	BACN10YR3C	. NUT		3
95	NAS1149C0332R	. WASHER		3
		INSTALL TUBE ASSEMBLY (100) TO LEFT SIDE PORT OF TEE FITTING (5) (AFT LOOKING FORWARD), AND SECURE LOOSELY TO BRACKET USING CLAMP (105) AND EXISTING PW FASTENERS.		
100	332T4531-22	. TUBE ASSY		1
100	332T4531-20	. TUBE ASSY (REPLACED BY 332T4531-22)	LTD	-
100	332T4531-3	. TUBE ASSY (REPLACED BY 332T4531-20)	LTD	-
105	TA027016-08	. CLAMP		1
105	BACC10HS08	. CLAMP (REPLACED BY TA027016-08)	LTD	-
		INSTALL TUBE ASSEMBLY (125) TO RIGHT SIDE PORT OF TEE FITTING (5) (AFT LOOKING FORWARD), AND SECURE LOOSELY TO BRACKET USING ITEMS (130 THRU 145).		
125	332T4531-12	. TUBE ASSY		1
130	TA027016-08	. CLAMP		1
130	BACC10HT08	. CLAMP (REPLACED BY TA027016-08)	LTD	-
133	BACC10GT2-08	. CLAMPSHELL		2
135	BACS12HN3U8	. SCREW		2
140	BACN10YR3C	. NUT		2
145	NAS1149C0332R	. WASHER		2
		MAINTAIN CLEARANCE BETWEEN END OF TUBE ASSY (125) AND ADJACENT PW TUBING OF 0.10 INCH MINIMUM.		
		TIGHTEN ALL CLAMPS AND FITTINGS WHEN CORRECT CLEARANCES ARE ACHIEVED.		

**71-00-02**

P/P BUILDUP FIGURE 12-5

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FIGURE 13-1

# PRIMARY EXHAUST INSTALLATION

REF QEC TASK NO.: 13

REF DWG: 333T4000

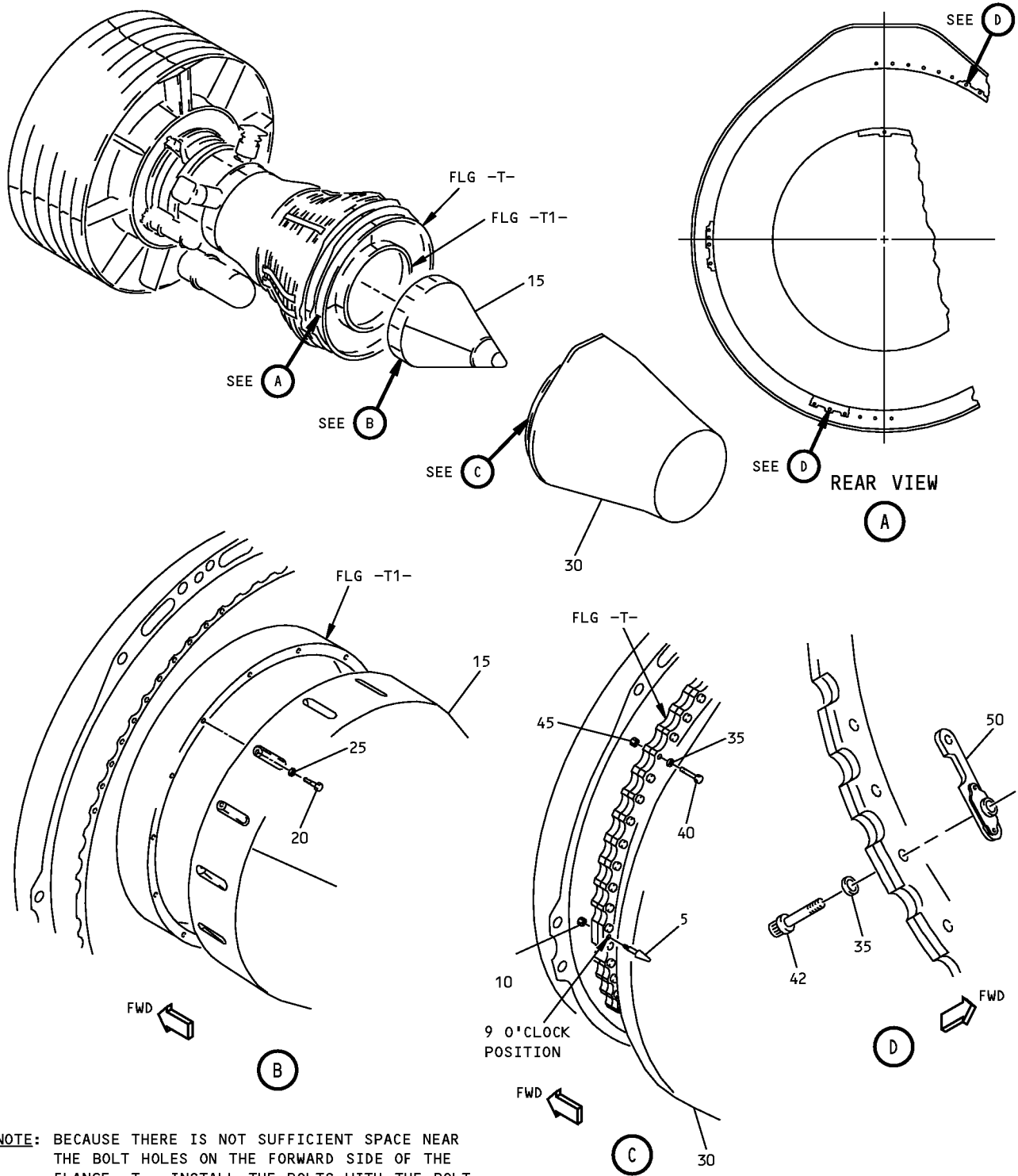
**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

**71-00-02**

P/P BUILDUP FIGURE 13-1

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**NOTE:** BECAUSE THERE IS NOT SUFFICIENT SPACE NEAR THE BOLT HOLES ON THE FORWARD SIDE OF THE FLANGE -T-, INSTALL THE BOLTS WITH THE BOLT HEADS ON THE AFT SIDE OF THE FLANGE.

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**Primary Exhaust Installation  
Figure 13-1 (Sheet 1)**

**71-00-02**

P/P BUILDUP FIGURE 13-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
13-1		<b>PRIMARY EXHAUST INSTALLATION (FIGURE 13-1, SHEET 1)</b>		
		INSTALL INDEX PIN (5) ON FLG -T- AT HORIZONTAL CENTERLINE ON LEFT SIDE OF ENGINE AND SECURE WITH NUT (10).		
5	69B97200-3	. INDEX PIN		1
10	BACN10HR4C	. NUT		1
		APPLY Never-Seez NSBT-8N compound, D00006 (C1) TO THREADS OF BOLT (20). ALIGN PLUG ASSY (15) WITH MOUNTING HOLES ON FLG -T1-. ENSURE MISALIGNMENT BETWEEN ENGINE CASE AND SLEEVE FLANGE HOLES IS NOT GREATER THAN 0.20. SECURE WITH ITEMS (20, 25). TIGHTEN BOLTS (20) TO 65-75 LB-IN.		
15	314T4320-19	. PLUG ASSY, EXHAUST		1
15	314T4320-13	. PLUG ASSY, EXHAUST (OPTIONAL TO 314T4320-19)	OPT	-
20	BACB30PN4-7	. BOLT		16
20	VAL22019-4	. BOLT ASSY (V06710)	OPT	-
20	BACB30PN4-6	. BOLT	OPT	-
25	NAS1587-4C	. WASHER (USED WITH BACB30PN4-6)		16
C1	D00006	. NEVER-SEEZ NSBT-8N COMPOUND	CON	AR
		ATTACH CRADLE TO SLEEVE (30). POSITION SLEEVE OVER PLUG (15) ON FLG -T-. ATTACH SLEEVE (30) TO FLANGE WITH ITEMS (35 THRU 50). TIGHTEN BOLTS TO 85-95 LB-IN.		
30	314T3310-10	. SLEEVE ASSY, EXHAUST		1
30	314T3310-9	. SLEEVE ASSY, EXHAUST (OPTIONAL TO 314T3310-10)	OPT	-
30	314T3310-7	. SLEEVE ASSY, EXHAUST (OPTIONAL TO 314T3310-9)	OPT	-
30	314T3310-5	. SLEEVE ASSY, EXHAUST (REPLACED BY 314T3310-7)	LTD	-
30	314T3310-3	. SLEEVE ASSY, EXHAUST (REPLACED BY 314T3310-5)	LTD	-
35	NAS1587-4C	. WASHER		66
40	BACB30PN4-5	. BOLT		66
42	BACB30PN4-6	. BOLT		2
45	BACN10HR4C	. NUT		66
45	BACN10HY4A	. NUT (REPLACED BY BACN10HR4C)	LTD	-
50	333T4000-2	. BRACKET ASSY		2

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P/P BUILDUP FIGURE 13-1

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FIGURE 13-2

# INLET COWL INSTALLATION

REF QEC TASK NO.: 13

REF DWG: 334T4000

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

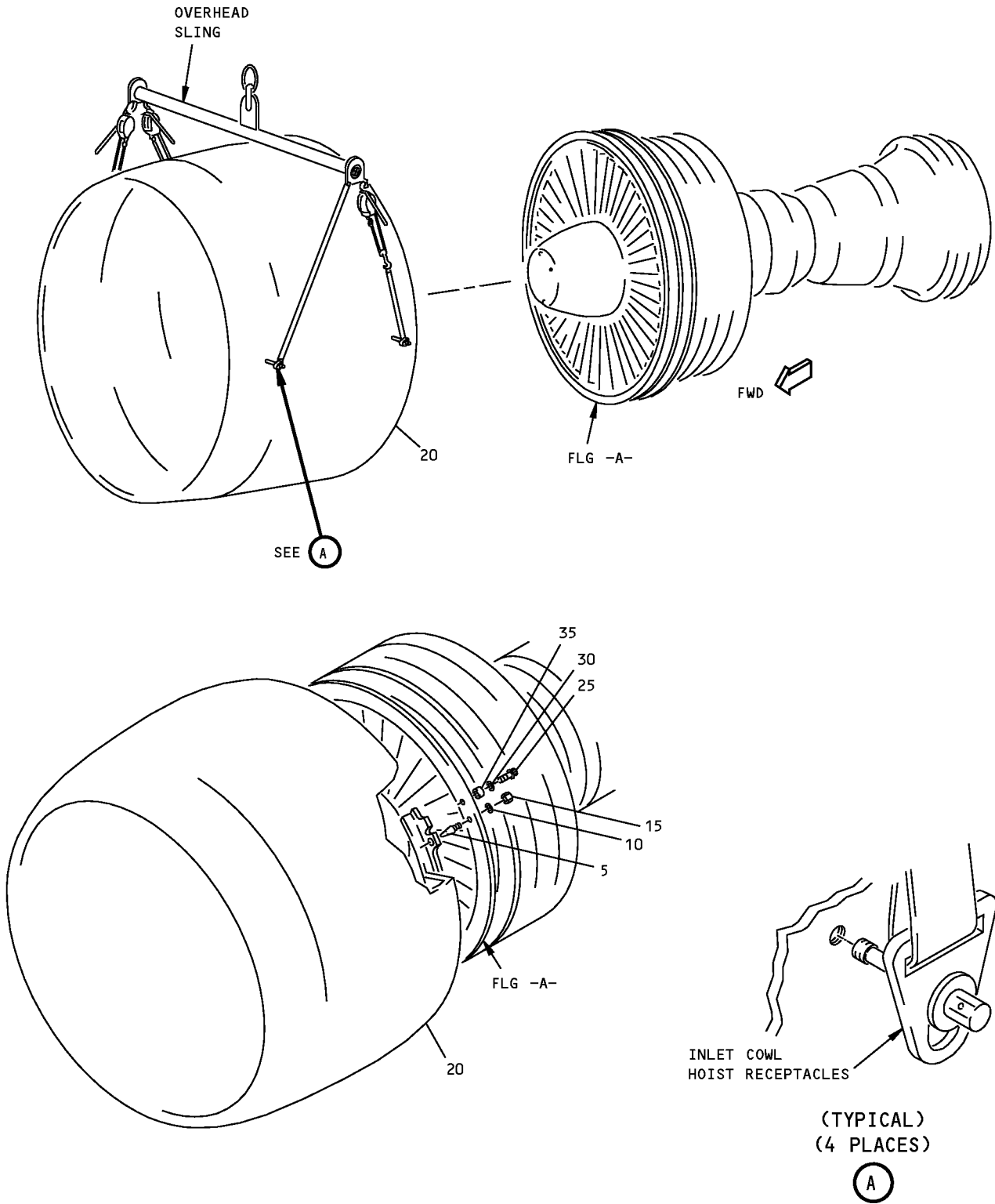
**71-00-02**

P/P BUILDUP FIGURE 13-2

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POWERPLANT BUILDUP MANUAL**



**Inlet Cowl Installation  
Figure 13-2 (Sheet 1)**

## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
13-2		<p><b>INLET COWL INSTALLATION</b> (FIGURE 13-2, SHEET 1)</p> <p>INSTALL SHEAR PINS (5) IN ENGINE FLG -A- AND SECURE WITH ITEMS (10, 15). TIGHTEN NUT 50-75 LB-IN.</p>		
5	314T3019-1	. SHEAR PIN		2
10	NAS1149C0463R	. WASHER		2
15	BACN11Z4CD	. NUT		2
		<p><b>WARNING:</b> LIGHTLY LOADED LEVER HOISTS MAY RELEASE LOAD, IF CONTROL IS FORCED INTO NEUTRAL OR FREE POSITION. ONLY PERSONNEL INSTRUCTED IN PROPER USAGE SHOULD OPERATE LEVER HOISTS. INJURY OR DAMAGE COULD RESULT FROM DROPPING THE INLET COWL.</p> <p>POSITION OVERHEAD SLING OVER INLET COWL (20). SECURE FOUR PINS IN INLET COWL HOIST RECEPTACLES AT THE THREE AND NINE O'CLOCK POSITIONS. ADJUST SLING AS REQUIRED TO ASSURE THE INLET COWL WILL REMAIN HORIZONTAL WHEN THE SHIPPING CONTAINER MOUNTING BOLTS ARE REMOVED.</p> <p>ALIGN INLET (20) ON SHEAR PINS (5). SECURE INLET (20) TO ENGINE FLANGE -A- WITH ITEMS (25 THRU 35). TIGHTEN BOLT 300-360 LB-IN.</p>		
20		. INLET PREASSEMBLY INLET PREASSEMBLY/ Figure 2-1	REF	-
25	BACB30US6K17	. BOLT		60
30	BACW10BP6ACU	. WASHER		60
35	330N3011-2	. SPACER		60

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P/P BUILDUP FIGURE 13-2

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**FIGURE 14-1**

**MARKER INSTALLATION**

**REF QEC TASK NO.: 14**

**REF DWG: 310T4070  
310U4020**

**NOTE:** PARTS WHICH ARE USED IN MORE THAN ONE FIGURE WILL BE PACKAGED IN QEC TASK NO. 110.

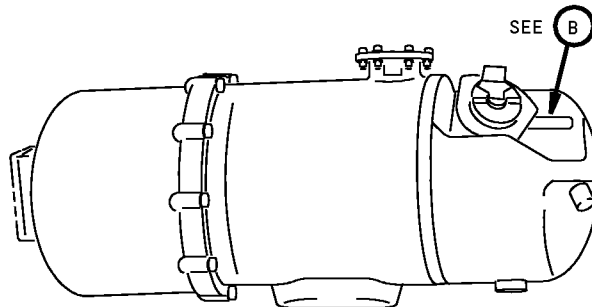
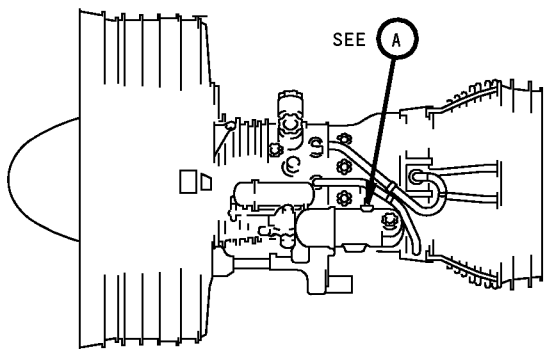
**71-00-02**

P/P BUILDUP FIGURE 14-1

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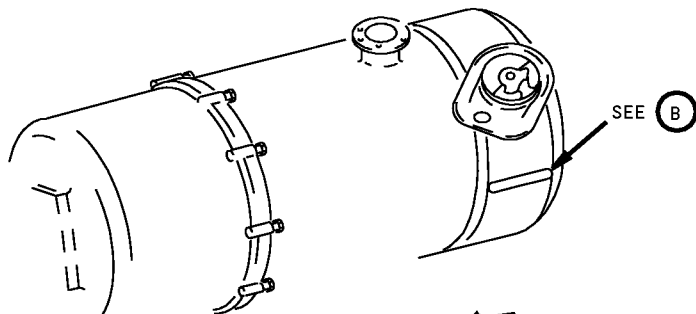
**POWERPLANT BUILDUP MANUAL**



FWD ←

ENGINES WITH OIL TANK  
FILLER CAP INBOARD

(A)



FWD ←

ENGINES WITH OIL TANK  
FILLER CAP OUTBOARD

(A)

MOBIL JET OIL 254 —5

ESSO OR EXXON  
TURBO OIL 85 —5

BP  
TURBO OIL 2380 —5

(B)

**Marker Installation  
Figure 14-1 (Sheet 1)**

**71-00-02**

P/P BUILDUP FIGURE 14-1

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
14-1		<p><b>MARKER INSTALLATION</b> (FIGURE 14-1, SHEET 1)</p> <p><b>CAUTION:</b> APPROPRIATE OIL USAGE MARKERS MUST BE INSTALLED TO IDENTIFY THE BRAND USED BY OPERATOR. MIXING OF OIL BRANDS MAY CAUSE DAMAGE TO ENGINE AND ACCESSORIES AND VOID WARRANTIES.</p> <p>CLEAN DESIGNATED SURFACE WITH METHYL ETHYL KETONE (MEK) AND WIPE DRY PRIOR TO MARKER INSTALLATION.</p> <p>INSTALL MARKER (5) ON ENGINE OIL TANK. BRUSH COAT EDGES OF MARKER (5) WITH coating, B00571 (C2) (REF 71-00-00, INTRODUCTION).</p>		
5	BAC27TPP0573	. MARKER (MOBIL JET OIL 254)		1
5	BAC27WPP347	. MARKER (BP TURBO OIL 2380)	OPT	-
5	BAC27TPP0024	. MARKER (REPLACED BY BAC27WPP347) <sup>*[1]</sup>	LTD	-
C2	B00571	. COATING	CON	AR
		*[1] ESSO OR EXXON TURBO OIL 2380 OPTIONAL TO BP TURBO OIL 2380		

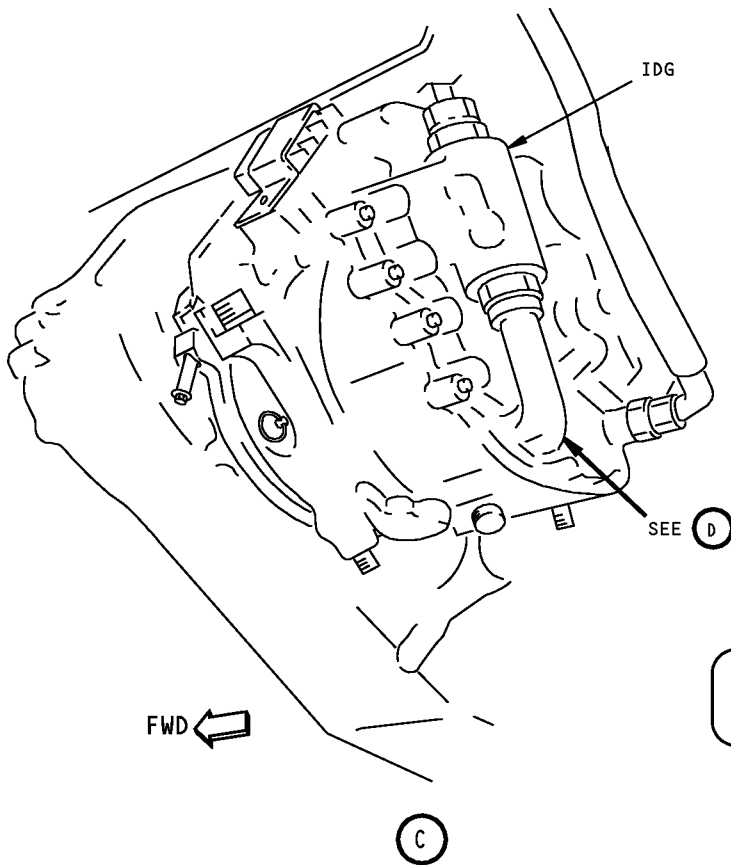
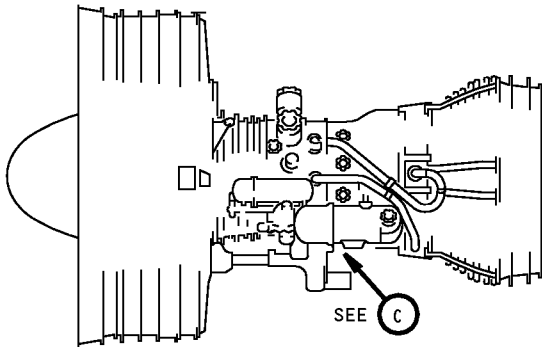
**71-00-02**

P/P BUILDUP FIGURE 14-1

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**POWERPLANT BUILDUP MANUAL**



MOBIL JET OIL 254 —10

ESSO OR EXXON  
TURBO OIL 85 —10

BP  
TURBO OIL 2380 —10

D

**Marker Installation  
Figure 14-1 (Sheet 2)**

**71-00-02**

P/P BUILDUP FIGURE 14-1

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
14-1		<p><b>MARKER INSTALLATION</b> (FIGURE 14-1, SHEET 2)</p> <p><b>CAUTION:</b> APPROPRIATE OIL USAGE MARKERS MUST BE INSTALLED TO IDENTIFY THE BRAND USED BY OPERATOR. MIXING OF OIL BRANDS MAY CAUSE DAMAGE TO ENGINE AND ACCESSORIES AND VOID WARRANTIES.</p> <p>CLEAN DESIGNATED SURFACE WITH METHYL ETHYL KETONE (MEK) AND WIPE DRY PRIOR TO MARKER INSTALLATION.</p> <p>INSTALL MARKER (10) ON IDG. BRUSH COAT EDGES OF MARKER (10) WITH coating, B00571 (C2) (REF 71-00-00, INTRODUCTION).</p> <p>. MARKER (MOBIL JET OIL 254)</p> <p>. MARKER (BP TURBO OIL 2380)</p> <p>. MARKER (REPLACED BY BAC27WPP347)<sup>*[1]</sup></p> <p>. MARKER (ESSO/EXXON TURBO OIL 85)</p> <p>. COATING</p> <p>*[1] ESSO OR EXXON TURBO OIL 2380 OPTIONAL TO BP TURBO OIL 2380</p>		
10	BAC27TPP0573			1
10	BAC27WPP347		OPT	-
10	BAC27TPP0024		LTD	-
10	BAC27TPP0613		OPT	-
C2	B00571		CON	AR

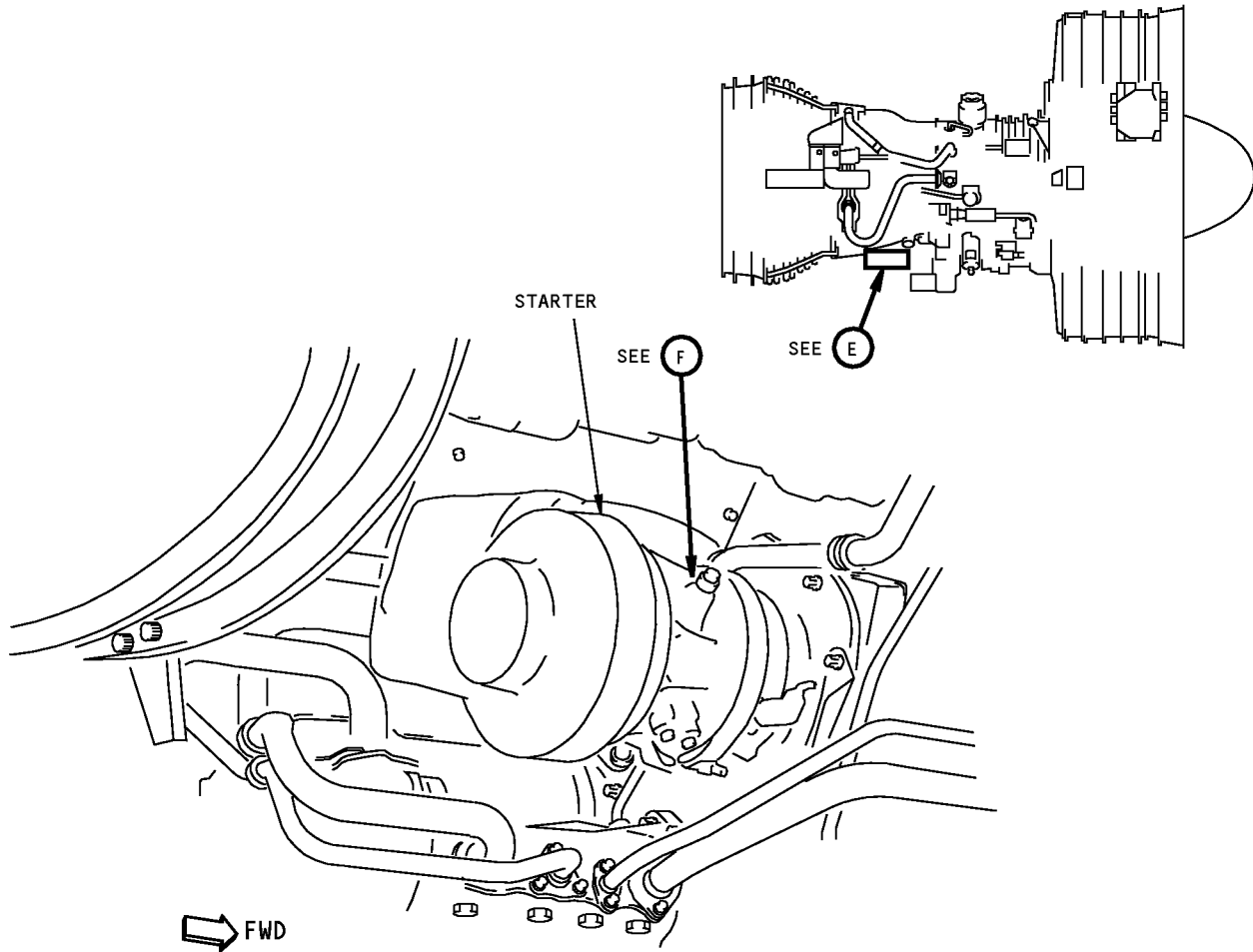
**71-00-02**

P/P BUILDUP FIGURE 14-1

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**POWERPLANT BUILDUP MANUAL**



(E)

MOBIL JET OIL 254 15

ESSO OR EXXON  
TURBO OIL 85 15

BP  
TURBO OIL 2380 15

(F)

**Marker Installation  
Figure 14-1 (Sheet 3)**

**71-00-02**

P/P BUILDUP FIGURE 14-1

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
14-1		<p><b>MARKER INSTALLATION</b> (FIGURE 14-1, SHEET 3)</p> <p><b>CAUTION:</b> APPROPRIATE OIL USAGE MARKERS MUST BE INSTALLED TO IDENTIFY THE BRAND USED BY OPERATOR. MIXING OF OIL BRANDS MAY CAUSE DAMAGE TO ENGINE AND ACCESSORIES AND VOID WARRANTIES.</p> <p>CLEAN DESIGNATED SURFACE WITH solvent, B00148 (C1) AND WIPE DRY PRIOR TO MARKER INSTALLATION.</p> <p>INSTALL MARKER (15) ON STARTER. BRUSH COAT EDGES OF MARKER (15) WITH coating, B00571 (C2) (REF 71-00-00, INTRODUCTION).</p>		
15	BAC27TPP0573	. MARKER (MOBIL JET OIL 254)		1
15	BAC27WPP347	. MARKER (BP TURBO OIL 2380)	OPT	-
15	BAC27TPP0024	. MARKER (REPLACED BY BAC27WPP347) <sup>*[1]</sup>	LTD	-
15	BAC27TPP0613	. MARKER (ESSO/EXXON TURBO OIL 85)	OPT	-
C1	B00148	. SOLVENT	CON	AR
C2	B00571	. COATING	CON	AR
		*[1] ESSO OR EXXON TURBO OIL 2380 OPTIONAL TO BP TURBO OIL 2380		

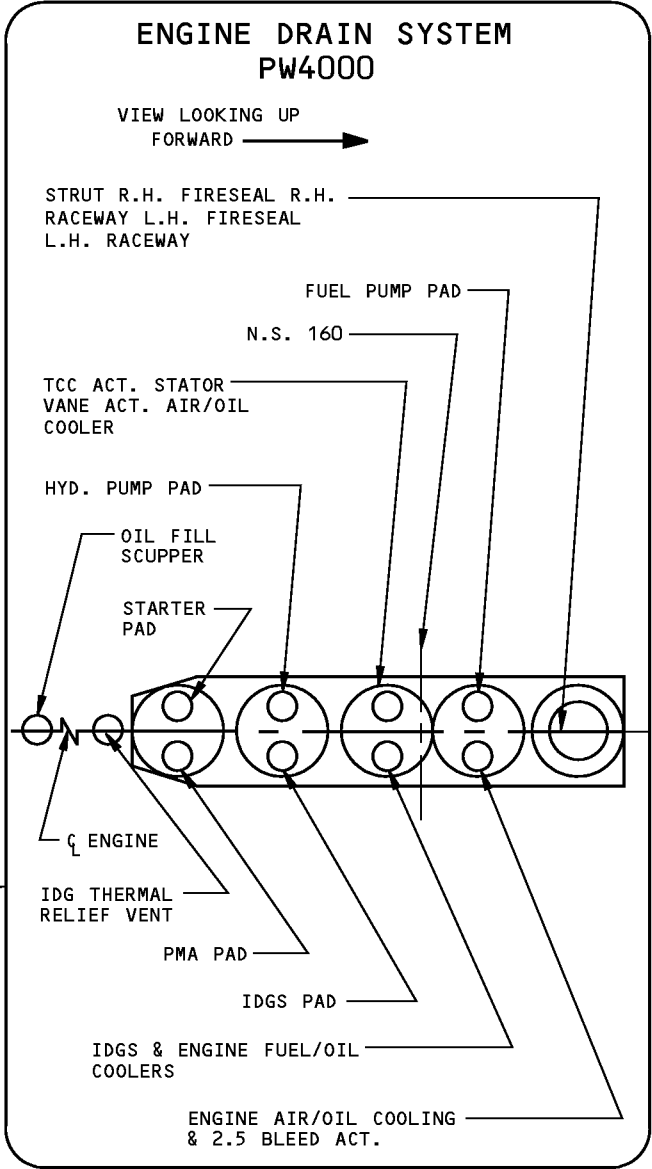
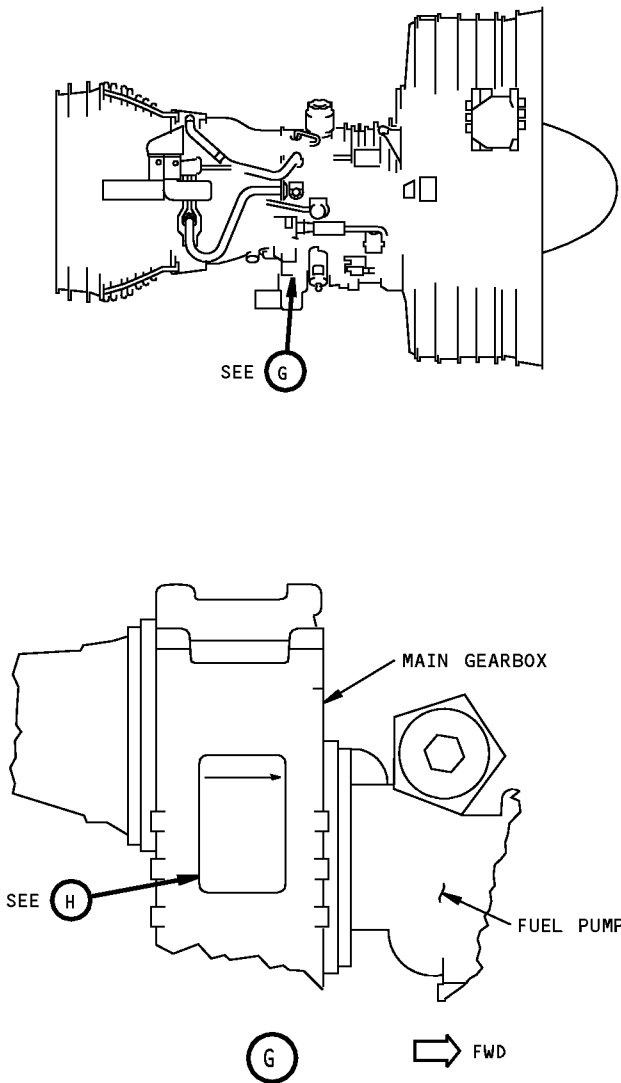
**71-00-02**

P/P BUILDUP FIGURE 14-1

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POWERPLANT BUILDUP MANUAL



EARLIER CONFIGURATION (REF FIG. 4-3, SHEET 8)

(H)

**Marker Installation  
Figure 14-1 (Sheet 4)**

**71-00-02**

P/P BUILDUP FIGURE 14-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
14-1		<b>MARKER INSTALLATION (FIGURE 14-1, SHEET 4)</b>  <u>EARLIER CONFIGURATION (REFER TO FIG. 4-3, SHEET 8)</u>  CLEAN DESIGNATED SURFACE WITH solvent, B00148 (C1) AND WIPE DRY PRIOR TO MARKER INSTALLATION.  INSTALL MARKER (20) ON ENGINE GEARBOX. BRUSH COAT EDGES OF MARKER (20) WITH coating, B00571 (C2) (REF 71-00-00, INTRODUCTION).		
20	BAC27TTTR79	. MARKER (1 REQD)	LTD	-
20	BAC27TPPS5712	. MARKER (REPLACED BY BAC27TTR79)	LTD	-
C1	B00148	. SOLVENT	CON	AR
C2	B00571	. COATING	CON	AR

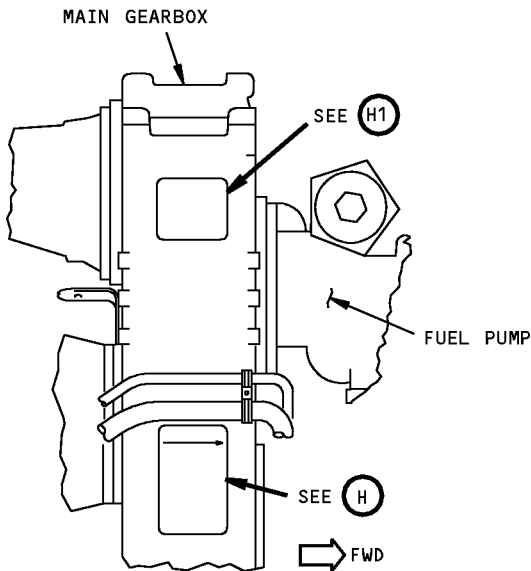
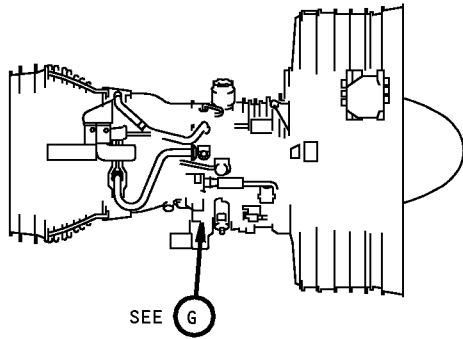
**71-00-02**

P/P BUILDUP FIGURE 14-1

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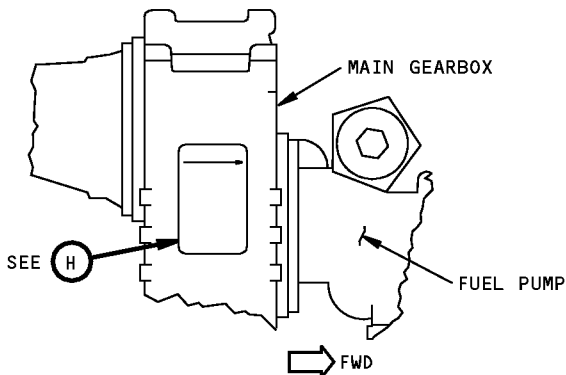
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POWERPLANT BUILDUP MANUAL



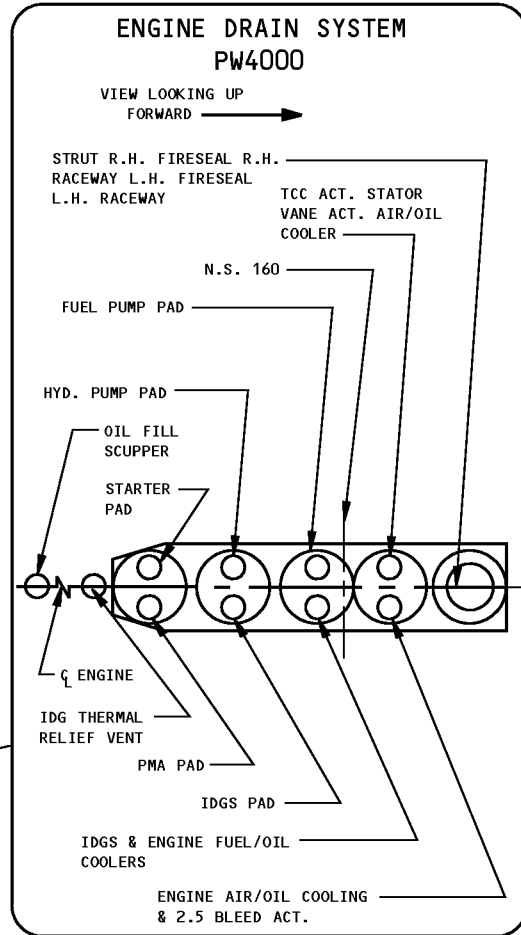
(ENGINES WITH TRANSMITTER MARKER)

G



(ENGINES WITHOUT TRANSMITTER MARKER)

G



LATER CONFIGURATION (REF FIG. 4-3, SHEET 8)

H

**FUEL PRESS. TRANSMITTER FLEX HOSE INSTALLATION**  
 INSTALL FLEX LINE WITH END FITTINGS LOOSE. VERIFY HOSE ROUTING IS FREE OF KINKS, TWIST OR 'S' BENDS. TIGHTEN ENDS FITTINGS WHILE HOSE IS IN SMOOTH ROUTING  
 CAUTION: HOSE FAILURE WILL OCCUR IF END FITTINGS ARE ALLOWED TO ROTATE DURING TORQUING PROCEDURE.

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H1

Marker Installation  
 Figure 14-1 (Sheet 5)

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P/P BUILDUP FIGURE 14-1

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POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
14-1		<p><b>MARKER INSTALLATION</b>  <b>(FIGURE 14-1, SHEET 5)</b></p> <p><u>LATER CONFIGURATION (REFER TO FIG. 4-3, SHEET 8)</u></p> <p>CLEAN DESIGNATED SURFACE WITH solvent, B00148 (C1) AND WIPE DRY PRIOR TO MARKER INSTALLATION.</p> <p>INSTALL MARKER (20) ON ENGINE GEARBOX. BRUSH COAT EDGES OF MARKER (20) WITH coating, B00571 (C2) (REF 71-00-00, INTRODUCTION).</p>		
20	BAC27TTR79	. MARKER		1
C1	B00148	. SOLVENT	CON	AR
C2	B00571	. COATING	CON	AR
		<u>ENGINES WITH TRANSMITTER MARKER:</u>		
23	BAC27TPP0568	. MARKER		1
C2	B00571	. COATING	CON	AR

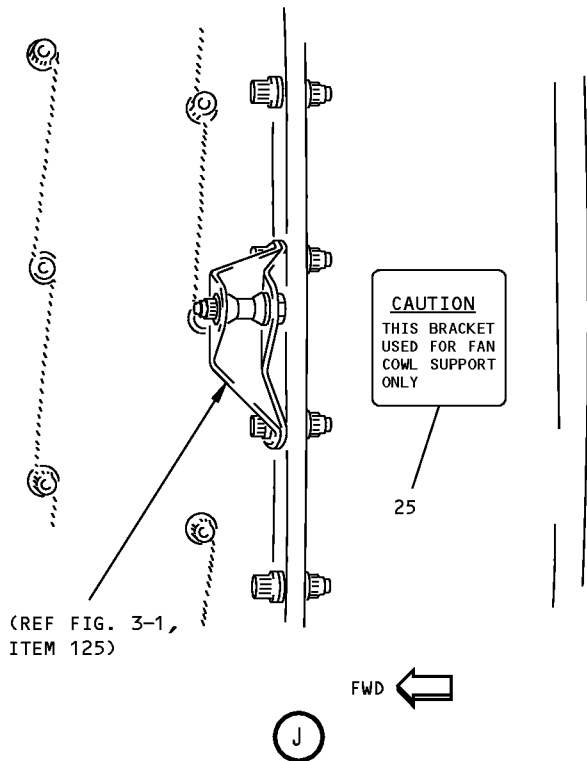
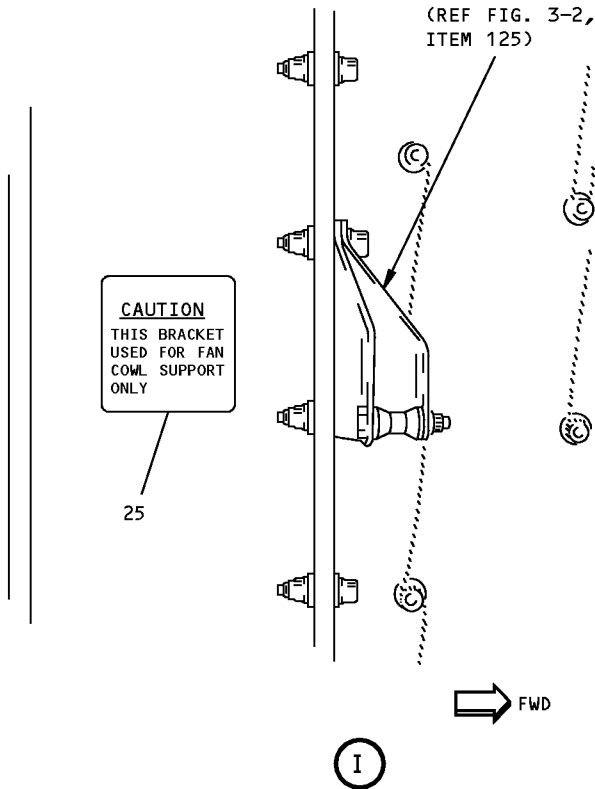
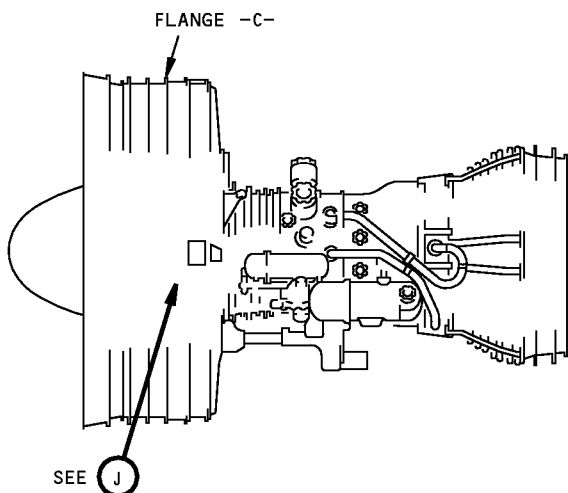
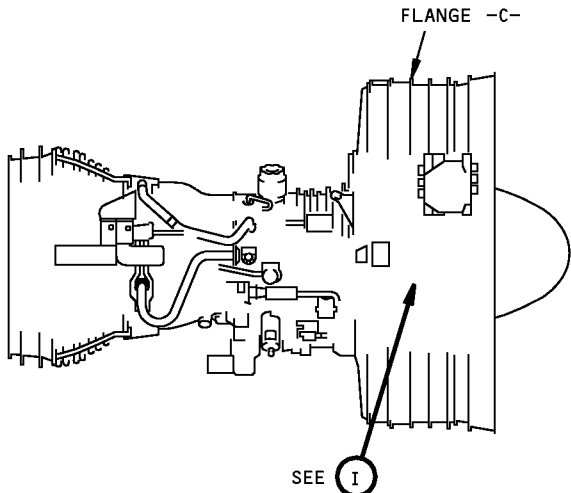
**71-00-02**

P/P BUILDUP FIGURE 14-1

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POWERPLANT BUILDUP MANUAL



Marker Installation  
Figure 14-1 (Sheet 6)

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P/P BUILDUP FIGURE 14-1

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## POWERPLANT BUILDUP MANUAL

ITEM NO.	PART NUMBER	NOMENCLATURE	UC	QTY
14-1		<b>MARKER INSTALLATION (FIGURE 14-1, SHEET 6)</b>  CLEAN DESIGNATED SURFACE WITH solvent, B00148 (C1) AND WIPE DRY PRIOR TO MARKER INSTALLATION.  INSTALL MARKERS (25) NEXT TO BRACKETS (REF 3-1, ITEM 125 AND 3-2, ITEM 125). BRUSH COAT EDGES OF MARKERS (25) WITH coating, B00571 (C2) (REF 71-00-00, INTRODUCTION).		
25	BAC27EPP0489	. MARKER		2
C1	B00148	. SOLVENT	CON	AR
C2	B00571	. COATING	CON	AR

**71-00-02**

P/P BUILDUP FIGURE 14-1

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**POWERPLANT BUILDUP MANUAL****QEC INSPECTION/CHECK****1. General**

- A. The following procedure provides general inspection limits you can use when you install new or used QEC components on the engine. This procedure should not be used by itself to determine the serviceability of a part. Rather, this procedure should be used together with your airline's existing standard practices to determine serviceability.
- (1) This section is optional but may be operator policy.
  - (2) This inspection is applicable to Boeing QEC parts only. For parts owned by the engine manufacturer, refer to the applicable procedures in the Airplane Maintenance Manual (AMM) or Engine Shop Manual (ESM).

**2. Inspection****A. Procedure**

- (1) Use the guidelines below when you must make an inspection of the parts in the QEC kit:
  - (a) Bolts/screws, washers, spacers, couplings, clamps, clampshells:
    - 1) Damage is not permitted.
  - (b) Nuts:
    - 1) Damage is not permitted.
    - 2) For self-locking nuts, do a check of the self locking feature. Refer to AMM 70-23-00/201 (747) or 767 AMM 20-11-00/201 (767).
  - (c) O-rings:
    - 1) O-rings should not be used again.
  - (d) Brackets:
    - 1) Cracks:
      - a) Not permitted.
    - 2) Scratches, nicks, pits, scoring:
      - a) Permitted up to 5% of the original thickness. Blend smoothly to 63RA finish.
    - 3) Deformation:
      - a) Not permitted.
  - (e) Pneumatic ducts:
    - 1) Refer to CMM 36-10-03 for inspection and repair information.
  - (f) Hoses:
    - 1) Hoses that include fire shielding (hydraulic hoses):
      - a) Visually examine the hose for damage. If damage is found, refer to applicable operator standards for inspection and repair information.
      - b) Damage to the fire protection shielding is not permitted.
    - 2) Hoses that do not include fire shielding (IDG oil cooling hoses and pneumatic hoses):
      - a) Visually examine the hose for damage. If damage is found, refer to applicable operator standards for inspection and repair information.
  - (g) Tubes:

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QEC INSPECTION/CHECK FIGURE 1

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- 1) Refer to 747-400 AMM 20-11-05/401 (747) or 767 AMM 72-00-00/601 (767) for inspection and repair information.
- (h) Line Replaceable Units (LRU) (IDG, hydraulic pump, fire detectors, etc.):
  - 1) Refer to the applicable CMM for inspection and repair information.
- (i) Structural parts (forward and aft engine mounts, primary exhaust, etc.):
  - 1) Refer to the applicable CMM for inspection and repair information.
- (j) Wire Harnesses:
  - 1) For vendor wire harnesses (such as those owned by the engine manufacturer), refer to the applicable vendor CMM for inspection and repair information.
  - 2) For Boeing harnesses, refer to the Standard Wiring Practices Manual for inspection and repair information.
- (k) Aluminum foil markers:
  - 1) Refer to 747-400 AMM 20-11-06/401 (747) or 767 AMM 20-10-14/401 (767) for inspection and replacement information.

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QEC INSPECTION/CHECK FIGURE 1

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