

TO: ALL HOLDERS OF AUXILIARY POWER UNIT ASSEMBLY OVERHAUL MANUAL, 49-10-21

REVISION NO. 43, DATED JUL 1/08

HIGHLIGHTS

| DESCRIPTION OF CHANGE                                | TOPICS AFFECTED |                            |                                      |                                      |                            |                  |             |                  |                                                |                                 |                                 |             |                                                |
|------------------------------------------------------|-----------------|----------------------------|--------------------------------------|--------------------------------------|----------------------------|------------------|-------------|------------------|------------------------------------------------|---------------------------------|---------------------------------|-------------|------------------------------------------------|
|                                                      | D<br>&<br>O     | D<br>/<br>A<br>s<br>s<br>y | C<br>l<br>e<br>a<br>n<br>i<br>n<br>g | I<br>n<br>s<br>p<br>/<br>C<br>h<br>k | R<br>e<br>p<br>a<br>i<br>r | A<br>s<br>s<br>y | F<br>/<br>C | T<br>e<br>s<br>t | T<br>/<br>S<br>h<br>o<br>o<br>t<br>i<br>n<br>g | S<br>/<br>T<br>o<br>o<br>l<br>s | S<br>t<br>o<br>r<br>a<br>g<br>e | I<br>P<br>L | L<br>/<br>O<br>v<br>e<br>r<br>h<br>a<br>u<br>l |
| Replaced Texaco Unitemp 500 grease with Rheotemp 500 |                 |                            |                                      |                                      |                            | X                |             |                  |                                                |                                 |                                 |             |                                                |

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# AUXILIARY POWER UNIT ASSEMBLY

49-10-21

**BOEING P/N** 65-50901-1, -5 thru -10, -12, -13, -15 thru 22, -24, -26, -28, -30, -32, -34, -36, -38, -40, -42, -44, -46, -48, -50, -52 thru -60, -71 thru -75, -77, -79, -81, -83, -85, -87, -89, -91, -95, -98, -99  
65-88936-1, -7 thru -11, -13, -15 thru -18  
65C35424-1, -2, -3, -4, -5  
65C35694-1

## AIRLINE P/N

THE FOLLOWING DIRECTIVES APPLY TO THIS SUBJECT

| BOEING<br>SERVICE<br>BULLETIN | BOEING<br>TEMPORARY<br>REVISION | OTHER<br>DIRECTIVES | DATE DIRECTIVE<br>INCORPORATED<br>INTO TEXT |
|-------------------------------|---------------------------------|---------------------|---------------------------------------------|
|                               |                                 | MC 3560-2           | Feb 15/69                                   |
|                               |                                 | PRR 30401-1         | Feb 15/69                                   |
|                               |                                 | PRR 30401-2         | Feb 15/69                                   |
|                               |                                 | PRR 30569           | Feb 15/69                                   |
|                               |                                 | PRR 30640           | Feb 15/69                                   |
| 26-1003                       |                                 | PRR 30908           | Feb 15/69                                   |
| 26-1005                       |                                 | PRR 31300           | Feb 15/69                                   |
|                               |                                 | PRR 31303-1         | Feb 15/69                                   |
|                               |                                 | PRR 31333           | Feb 15/69                                   |
| 49-1006                       |                                 | PRR 30593           | Mar 10/70                                   |
|                               |                                 | PRR 31540           | Mar 10/70                                   |
| 49-1007                       |                                 | PRR 31575           | Mar 10/70                                   |
| 49-1005                       |                                 | PRR 31600           | Mar 10/70                                   |
| 49-1005, Rev 1                |                                 | PRR 31600           | Mar 10/70                                   |
| 49-1009                       |                                 | PRR 31698           | Mar 10/70                                   |
| 49-1009, Rev 1                |                                 | PRR 31698           | Mar 10/70                                   |
| 49-1010                       |                                 | PRR 31784           | Mar 10/70                                   |
| 49-1018                       |                                 | PRR 31984           | Jun 25/73                                   |


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| BOEING<br>SERVICE<br>BULLETIN | BOEING<br>TEMPORARY<br>REVISION | OTHER<br>DIRECTIVES | DATE DIRECTIVE<br>INCORPORATED<br>INTO TEXT |
|-------------------------------|---------------------------------|---------------------|---------------------------------------------|
|                               |                                 | PRR 32272           | Jun 25/73                                   |
|                               |                                 | PRR 32353           | Jun 25/74                                   |
|                               |                                 | PRR 32200-24        | Sep 25/74                                   |
|                               |                                 | PRR 32391           | Sep 25/74                                   |
|                               |                                 | PRR 32436           | Mar 25/75                                   |
| 49-1031                       |                                 | PRR 32602           | Jul 5/79                                    |
|                               |                                 | PRR 32612-3         | Jul 5/76                                    |
| 49-1033                       |                                 | PRR 32645           | Jan 5/77                                    |
|                               |                                 | PRR 32612-6         | Jan 5/78                                    |
| 49-1044                       |                                 | PRR 32838           | Jul 5/79                                    |
|                               |                                 | PRR 32879           | Jan 5/79                                    |
|                               |                                 | MC 3510-84          | Jan 5/80                                    |
|                               |                                 | PRR 32612-12        | Jan 5/80                                    |
| 49-1040                       |                                 | PRR 32857           | Jul 5/81                                    |
|                               |                                 | PRR 33176           | Jul 5/82                                    |
|                               |                                 | PRR 33190           | Jul 5/82                                    |
|                               |                                 | PRR 33232           | Jul 5/82                                    |
|                               |                                 | MC 3510-163         | Jul 5/82                                    |
|                               |                                 | PRR 33450           | Jun 5/84                                    |
|                               |                                 | PRR 33450-1         | Jun 5/84                                    |
|                               |                                 | PRR 33553           | Jun 5/84                                    |
| 26-1025                       |                                 | MC 3510-17          | Jun 5/84                                    |
|                               |                                 | MC 3595-27          | Mar 5/85                                    |
|                               |                                 | PRR 33890-8         | Dec 5/85                                    |
| 24-1045                       |                                 | PRR 33450-R         | Dec 5/85                                    |
| 49-1056                       |                                 | PRR 33190           | Sep 5/87                                    |
|                               |                                 | PRR 34253           | Dec 5/87                                    |
|                               |                                 | PRR 33890-41        | Jun 5/88                                    |
| 49-1063                       |                                 |                     | Dec 5/89                                    |
| 24-1076                       |                                 |                     | Mar 5/90                                    |
|                               |                                 | PRR 33890-86        | Sep 5/91                                    |
|                               | TR 49-1                         |                     | Dec 5/91                                    |
|                               | TR 49-2                         |                     | Dec 5/91                                    |
|                               |                                 | PRR 35005-26        | Jun 5/92                                    |
|                               |                                 | PRR 35015           | Sep 5/92                                    |
| 49-1073                       |                                 | PRR 33890-86        | Dec 5/92                                    |
|                               |                                 | PRR 35207           | Sep 1/94                                    |
|                               |                                 | PRR 35144           | Dec 1/95                                    |
|                               |                                 | PRR 35191           | Dec 1/95                                    |
| 49-1117                       |                                 | MC 4900MK3148       | Jul 1/99                                    |

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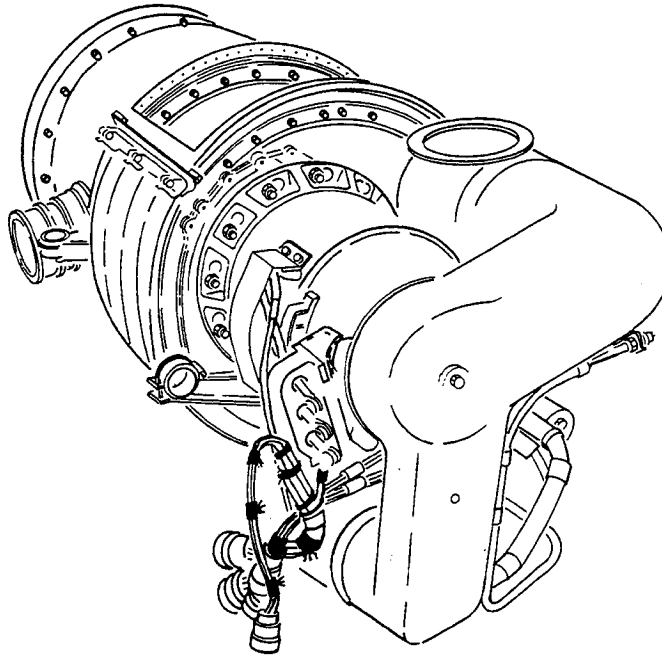
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\*[1] Special instructions not required. Use standard industry practices, the information contained in 20-30-01, 20-30-02, and appropriate vendor instructions.

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AUXILIARY POWER UNIT ASSEMBLY



Auxiliary Power Unit Assembly  
Figure 1

DESCRIPTION AND OPERATION

1. Description

- A The auxiliary power unit assembly (APU) is a compact power plant consisting of a gas turbine engine and a generator. The gas turbine incorporates a bleed air system which supplies compressed air to the airplane pneumatic system and also acts as a load control when the unit is operating. The generator is mounted on and driven by the turbine engine accessory drive. A fire detector assembly is provided to signal the presence of fire within the engine shroud.

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2. Operation

- A. The APU supplies electrical and pneumatic power to the airplane. When auxiliary power is required, the APU master switch is moved to the START position, initiating an automatic sequence of events to start the unit. Once the APU attains service speed, pneumatic and electrical power are available for use.
- B. Electrical power for starting the APU is supplied by the airplane electrical system. Fuel is supplied by the airplane fuel system. The lubrication system is part of the basic engine assembly.

3. Leading Particulars (approx.)

Length -- 50.5 inches  
Height -- 29.5 inches  
Width -- 22.0 inches  
Weight -- With 40 KVA generator installed -- 402 pounds



DISASSEMBLY

1. General

- A. Suspend APU from sling F80188-17 or sling C49004-1, -2, -3, -4.
- B. Remove lockwire as required during disassembly, noting location to assist assembly.

2. APU assemblies 65-50901-XX, 65-88921-XX (Fig. 1101, 1101A, 1102)

CAUTION: FIRE DETECTOR IS EXTREMELY FRAGILE; TAKE CARE NOT TO BEND OR DISTORT. DETECTOR MAY BE REMOVED WHILE APU IS INSTALLED IN AIRPLANE.

A. Fire Detector Removal (Fig. 1102)

NOTE: Note manner of attachment of fire detector, including clamps and grounding provisions, to facilitate assembly.

- (1) Remove parts (1, 2, 3) and clamps or supports (4). If used, remove parts (40, 41, 42) to free detector (6) from ground cable.

NOTE: Do not separate clamp (43) from detector unless repair or replacement is necessary.

- (2) Remove nuts (5) and separate fire detector (6) from quick-release clamps (13, 31, 34). Refer to appropriate vendor instructions for overhaul of detector (6).

- (3) Remove screws (7 and 8), washers (9), nuts (10) and spacers (11 and 12) to detach clamps (13) and bracket (16).

NOTE: Do not remove nutplate (15) unless repair or replacement is necessary.

- (4) Remove grommet (17).

NOTE: Do not remove nuts (18), screws (20, 22), washers (19, 23), rivets (24), coverplates (21, 25) or spacer (26) unless repair or replacement is necessary.

- (5) Remove screws (27, 28), washers (29, 30) and clamps (31).
- (6) Remove screws (32), washers (33) and clamp (34), bracket (39). Remove nut (35), washers (36, 37) and screw (38) from bracket (39).

B. Drain Tube Removal (Fig. 1101, 1101A)

- (1) For APU assemblies 65-50901-85, -87, -89, -91, -95 and -99 only:
  - (a) Disconnect the hose assembly (1), O-rings (4B, 5B), reducer union (4A), and union (5A) from the housing assembly (5C) and the combustion chamber fitting.
  - (b) Remove the housing assembly (5C) from the turbine exhaust.
- (2) For other 65-50901-XX, 65-88921-XX APU assemblies:
  - (a) Disconnect the hose assembly or drain tube assembly (1A) from the tee or fitting (5) and the combustion chamber fitting.
  - (b) Remove the tee or fitting (5) and the seal (6) from the turbine exhaust.

C. Fire Detector Mount Removal (Fig. 1101, 1101A)

- (1) Remove bracket assembly (9) from bracket assemblies (17 and 21) by removing screws (7) and washers (8).

NOTE: Do not remove nutplates (11 and 12) unless repair or replacement is necessary.
- (2) Remove bracket assembly (17) by removing nuts (14), washers (15) and bolts (16).

NOTE: Do not remove nutplate (19) unless repair or replacement is necessary.
- (3) Remove bracket assembly (21) by removing bolts (25), washers (26) and bracket (27) from underside aft mount pad.

NOTE: Do not remove nutplate (23) unless repair or replacement is necessary.

D. Electrical Wiring Removal (Fig. 1101, 1101A)

- (1) Remove clamp (28) adjacent to generator output terminal block.
- (2) Uncouple plug D28 from transformer receptacle T2 as shown in Fig. 504.
- (3) Remove generator output terminal block cover and disconnect output cables from terminals T1, T2 and T3. Reinstall nuts on terminals.
- (4) Disconnect four ground terminals from ground bus by removing nuts (29), washers (30) and bolts (31).

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- (5) Disconnect three ground cables from terminals T4, T5 and T6 on generator output terminal block. Remove cables from transformer. Reinstall nuts on generator terminal block and reinstall generator terminal block cover.
- (6) Remove exciter terminal block cover and disconnect wire bundle assembly (32) at terminals F and A. Do not remove generator cables attached to terminals S and A. Reinstall nuts on exciter block terminals. Reinstall cover on exciter terminal block.
- (7) Remove cables from starter terminals and detach wire bundle assembly (32) from engine (152) leaving clamps in position if preferred.

**E. Air Inlet Seals and Spring Removal (Fig. 1101, 1101A)**

- (1) Remove spring assembly (35) and seal assembly (38) from engine air inlet by removing bolts (33) and washers (34). Remove pin (36) from spring (37).

NOTE: Do not remove seal (39) from retainer (41) unless repair or replacement is necessary.

- (2) Remove seals (43) from tracks (44).

**F. Exhaust Baffle Removal (Fig. 1101, 1101A)**

- (1) Detach baffle spacer ring (47) and retainer ring (46) from engine by removing bolts (45).

WARNING: THE EXHAUST DUCT BAFFLE SEAL (50) CONTAINS ASBESTOS. WEAR APPROVED TYPE RESPIRATOR WHEN PERFORMING ACTIVITIES WHICH MAY GENERATE ASBESTOS FIBERS OR DUST.

- (2) Detach seal ring (53) and retainer strap (49) from baffle seal (50) by removing bolts (48).

**G. Fuel Filter Removal (Fig. 1101, 1101A)**

- (1) Remove tube assembly (54), O-ring (58), fitting (59), nut (60) and washer (61) from engine fuel control boss.
- (2) Remove nut (62), washer (63) and bolt (64) to separate filter head (71) from bracket (65).
- (3) Remove filter bowl (72), filter element (73) and O-ring (74) from filter head (71).
- (4) Loosen nut (68) and remove elbow (67) and O-ring (69) from filter head (71).

(5) Loosen nut (68) and remove filter head (71) and O-ring (69) from fitting (66).

(6) Remove fitting (66) and O-ring (69) from engine fuel pump inlet.

**H. Oil Level Indicator or Switch Removal (Fig. 1101, 1101A)**

**(1) Indicator**

(a) Remove stillwell assembly (81) with oil level transmitter (80) attached by removing bolts (75), washers (76) and gaskets (77).

(b) Remove oil level transmitter (80) from stillwell assembly by removing screws (78) and lockwashers (79).

**(2) Switch (Fig. 1101, 1101A)**

(a) Remove nuts (82), washers (83) and screws (84) to detach receptacle (85) from bracket (95).

NOTE: Do not remove switch (94) wiring from receptacle (85) unless repair or replacement is necessary.

(b) Remove nuts (86), washers (87), screws (88) and clamps (89 and 90).

(c) Remove screws (91), washers (92), O-ring (93), or O-ring (93) and backup ring (93A), and switch (94).

(d) On 65-50901-28, -32, -40, -42, -54, -60, -71 assemblies, remove parts (95F thru 95H) to detach connector (95J) with attached sleeve (95I) from bracket on oil tank.

NOTE: Do not remove switch (95C) wiring from sleeve (95I) or connector (95J) unless necessary for repair or replacement.

(e) On 65-50901-28, -32, -40, -42, -54, -60, -71 assemblies, remove screw (95A), washer (95B), O-ring (95D) and backup ring (95E) and remove switch (95C).

(f) Remove existing engine flange fasteners to detach bracket (95).

**I. Oil Tank Cap Removal (Fig. 1101, 1101A)**

(1) Detach chain link (104) and remove cap assembly (96) with O-ring (97).

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(2) Remove nut (98), washer (99) and bolt (100). Separate O-ring (101) and funnel (102) from engine.

(3) Remove chain assembly (103) and chain link (104) from funnel (101).

J. Generator and Cooling Duct Removal (Fig. 1101, 1101A)

(1) Remove bolt (108), washer (111), clamps (105), generator cooling duct (109) and screen (134A).

(2) Remove transformer (112) from transformer mount assembly (116) by removing bolts (110) and washers (111).

(3) Remove generator cooling duct bracket assembly (130) and transformer mount assembly (116) by removing washers (115) and screws (129).

NOTE: Do not remove nutplates (122 thru 125 and 132) from brackets (127 or 133) or zee (128) unless repair or replacement is necessary.

CAUTION: PROVIDE ADEQUATE SUPPORT FOR GENERATOR TO PREVENT DAMAGE TO GENERATOR OR ENGINE. THE 40 KVA GENERATOR WEIGHS APPROXIMATELY 80 POUNDS.

(4) Place suitable support under generator (134).

(5) Loosen nuts (105) sufficiently to enable counterclockwise rotation of generator to align clearance holes in flange and its subsequent removal over nuts (105).

K. Tach Generator Removal (Fig. 1101A)

(1) Disconnect electrical connector.

(2) Remove nuts (163), washer (164), gasket (165) and tach generator (166).

L. Stand Assembly and Bracket Removal (Fig. 1101, 1101A)

(1) Detach stand assembly (138) by removing AiResearch nuts (135), washers (135A), bolts (136) and spacers (137).

M. Engine Mount Removal (Fig. 1101, 1101A)

(1) Remove bolts (139 and 140) and washers (141) to separate mount assemblies from engine mount pads.

- (2) Remove mount caps (147) from engine (152) mounts (148, 149 and 150) by removing cotter pins (142), nuts (143), bolts (146) and washers (144 and 145).

**NOTE:** Do not remove identification plate (151) unless repair or replacement is necessary.

### 3. APU assemblies 65C35424-XX (Fig. 1101B, 1101D, 1102A)

#### A. Fire Detector Removal (Fig. 1102A)

- (1) Remove the following fasteners:
  - (a) Bolts (5), washers (10), and clamps (15).
  - (b) Bolt (20), washer (25), spacer (30), and clamp (35).
  - (c) Nut (40), washer (45), bolt (50), spacer (55), and clamps (60, 65).
  - (d) For fire detector (125); nut (70), screw (75), washers (80, 85).
  - (e) For fire detector (130); bolt (90), washer (95), clamp (100), nut (105), screw (120), and washers (110, 115).
- (2) Remove fire detector (125, 130) from APU. Refer to appropriate vendor instructions for overhaul of fire detector (125, 130).

#### B. Electrical Wiring Removal (Fig. 1101B, 1101D)

- (1) Remove the clamps (5 thru 5G) as necessary to remove the wire bundles.
- (2) Disconnect the vendor plug P14 from the low oil pressure switch.
- (3) Uncouple plug D28 from transformer receptacle T2 as shown in Fig. 504.
- (4) Remove generator output terminal block cover and disconnect cables from terminals T1, T2, T3 on generator output block. Reinstall nuts on terminals.
- (5) Disconnect four ground terminals from grounding bus.
- (6) Disconnect ground cables from terminals T4, T5, T6 on generator output terminal block. Reinstall nuts on exciter block and reinstall generator terminal block cover.
- (7) Remove nuts (10), bolts (15), washers (20) and disconnect cables from transformers (45).

- (8) Remove exciter terminal block cover and disconnect wire bundle (25) from exciter block at terminals F and A. Do not remove generator cables from terminals S and A. Reinstall nuts on exciter block terminals and reinstall cover on exciter terminal block.

- (9) Remove cables from starter terminals and detach wire bundle assembly (25) from engine leaving clamps (5) in position if preferred.

C. Generator and Cooling Duct Removal (Fig. 1101B, 1101D)

- (1) Remove bolts (30, 35), washer (40) and transformer (45).
- (2) Remove transformer mount assembly (60) by removing bolt (50), bolt (53) and washers (55).
- (3) Remove nut (70), washer (75) and event monitor unit (80).
- (4) Remove bracket assembly (95) by removing bolt (85) and washer (90).
- (5) Remove v-band clamps (115, 120) and fan adaptor duct assembly (125).
- (6) Remove tube assembly (150) by removing nut (130), retainer (135), packing (140), and elbow (145).
- (7) Remove tube assembly (175) by removing nut (155), retainer (160), packing (165), and elbow (170).
- (8) APU Assembly 65C35424-1, -2, -3, -4 (Fig. 1101B)
  - (a) Remove the exhaust cooling air duct (215) by removing the bolt (180), the bolt (195), the three bolts (205), the four clamps (5, 5A thru 5C), the spacer (190), the three spacers (210), and the four washers (200).
- (9) APU Assembly 65C35424-5 (Fig. 1101D)
  - (a) Remove the flexible hose assembly.
- (10) APU Assembly 65C35424-5 (Fig. 1101D)
  - (a) Remove the exhaust cooling air duct (215) by removing the bolt (180), the bolt (195), the three bolts (205), the four clamps (5, 5A thru 5C), the spacer (190), the three spacers (210), the four washers (200), and the bracket (213).
- (11) Remove bracket assembly (220).
- (12) Remove bolts (240), washers (245) and oil cooler (250).
- (13) Remove bolts (255 thru 270), washers (275), v-band clamp (280) and cooling air duct assembly (285).

- (14) Remove bolts (290), washers (295), clamp flange (300), bracket assembly (305), and shims (330).

**NOTE:** Make a record of the quantity and the part number of the shims. Use this data when you assemble the components.

- (15) Remove generator (345) from engine (350) by removing nuts (335), washers (340).

4. APU assemblies 65C35694-XX (Fig. 1101C, 1102B)

A. Fire Detector Removal (Fig. 1102B)

- (1) Remove the following fasteners:

- (a) Nuts (51), washers (10), bolts (15), clamps (20), and clamp (25).
- (b) Nut (30), washers (35, 40) and bolt (45).
- (c) For fire detector (65), bolts (50), washers (55), clamps (60).
- (d) For fire detector (70), bolts (50), washers (55).

- (2) Remove fire detector (65, 70) from APU. Refer to appropriate vendor instructions for overhaul of fire detector (65, 70).

B. Electrical Wiring Removal (Fig. 1101C)

- (1) Remove clamps (5 thru 5C) as necessary to remove wire bundles.
- (2) Uncouple plug D28 from transformer receptacle T2 as shown in Fig. 504.
- (3) Remove generator output terminal block cover, nuts (10), washers (15) and disconnect cables from terminals T1, T2, T3 on generator output block. Reinstall nuts on terminals.
- (4) Remove nuts (20), washers (25) and disconnect four ground terminals from ground bus.
- (5) Remove nuts (10), washers (15) and disconnect ground cables from terminals T4, T5, T6 on generator output block. Reinstall washers (15), nuts (10) and generator terminal block cover.
- (6) Remove nuts (30), bolts (35), washers (40), and cables from transformer (60).
- (7) Remove exciter terminal block cover and disconnect wire bundle (45) at terminals F and A. Do not remove generator cables attached to terminals S and A. Reinstall nuts on exciter block terminals and exciter terminal block cover.
- (8) Remove cables from current control box.
- (9) Remove cables from starter terminals and detach wire bundle (45) from engine (225) leaving clamps (5) in position if preferred.



65-50901  
65-88936  
65C35424  
65C35694

C. Generator and Cooling Duct Removal (Fig. 11010)

- (1) Remove bolts (50), washers (55) and transformer (60).
- (2) Remove bolts (65, 75) and washers (70, 80) and remove transformer mount assembly (85).
- (3) Remove v-band clamps (155, 165) and gaskets (160, 170).
- (4) Remove bolt (175), washer (180) and cooling air duct (185).
- (5) Remove bolts (190) and bracket assembly (195).
- (6) Remove generator (220) from engine (225) by removing nuts (215).

INSPECTION/CHECK

1. Check all parts for obvious defects in accordance with standard practices.
2. Special Check
  - A. Check wire bundle (32, Fig. 1101; 153, Fig. 1101A; 25, Fig. 1101B; 45, Fig. 1101C) for damaged insulation or terminals and loose connections.
  - B. Magnetic particle check cap (147, Fig. 1101, 1101A) (235, Fig. 1101C) and mount brackets (148, 149 and 150, Fig. 1101, 1101A) (240, 245, 250, 255, 260, 265, Fig. 1101C) per SOPM 20-20-01.
  - C. Penetrant check stand assy (138, Fig. 1101, 1101A) (395, Fig. 1101C) and bracket (133, Fig. 1101, 1101A) (210, Fig. 1101C) per SOPM 20-20-02.
  - D. Check fire detector (6, Fig. 1102; 125, 130, Fig. 1102A; 65, 70, Fig. 1102B) for damage to shielding or fittings.
  - E. For transmitter (80, Fig. 1101), switch (94, 95C, Fig. 1101, 1101A) transformer (112, Fig. 1101; 45, Fig. 1101B; 60, Fig. 1101C), generator (134, Fig. 1101; 345, Fig. 1101B; 220, Fig. 1101C) and turbine engine (152, Fig. 1101; 350, Fig. 1101B; 225, Fig. 1101C), refer to applicable vendor overhaul instructions.
  - F. Visually check hose assembly (1, Fig. 1101, 1101A) for damage to retaining rings.
  - G. Housing assembly (5C, Fig. 1101, 1101A) is pressure tight. Pressure test with air at 50 psi as specified in BAC5001.

REPAIR

1. Repair

CAUTION: REPAIR OF HOUSING 65C36200-1 IS NOT PERMITTED.

A. Remove small defects by standard industry practices.

B. Weld cracks on these components:

- (1) Stand 65-62580-1 (Al alloy)
  - (2) Stand 65-62580-2 (321 or 347 CRES, annealed)
  - (3) Bracket 69-50854-2 (Al alloy)
  - (4) Bracket 69-50874-1 (Al alloy)
  - (5) Bracket 69-50884-1 (Al alloy)
  - (6) Bracket 69-50884-3 (Al alloy)
  - (7) Funnel 69-50869-4 (321 or 347 CRES)
  - (8) Seal ring 65-50993-2 (MIL-S-6721 CRES)
  - (9) Retainer strap 65-50993-5 (MIL-C-6721 CRES)
  - (10) Spacer ring 65-50993-4 (MIL-C-6721 CRES)
- C. Cap 65-50911-1, mounts 65-50912-series, 65-50917-series, 65-50918-series -- Worn 0.200-0.204-inch holes
- (1) Machine the holes oversize to 0.2131-0.2171 inch diameter. Material is 17-4PH CRES, 180-220 ksi.
  - (2) Refinish as indicated.
  - (3) Attach a note to install oversize bolts BACB30LM3DSU18X to replace the standard bolts (146, Fig. 1101 or 1101A) (275, Fig. 1101C).

2. Refinish -- See Fig. 401. Refer to SOPM 20-30-02 for stripping of protective finishes. Refer to SOPM 20-41-01 for explanation of F and SRF finish codes.

## 3. Replacement (Fig. 1101 or 1101A)

A. Replace filter element (73) at each overhaul.

B. Seal assembly 69-55139-series

- (1) Seal (39) on retainer assembly (40) -- Remove the old seal. Bond a replacement seal to the retainer with Type 60 adhesive (SOPM 20-50-12).
- (2) Angle (42) – Bond a replacement angle to the retainer with Type 38 adhesive (SOPM 20-50-12) by special method 1.

| Part number                                             | Name       | Material                   | Refinish                                                                                                     |
|---------------------------------------------------------|------------|----------------------------|--------------------------------------------------------------------------------------------------------------|
| 65-50911                                                | Cap        | 17-4PH CRES<br>180-200 ksi | Passivate (F-17.25, which replaces F-17.09)                                                                  |
| 65-50912<br>65-50917<br>65-50918                        | Mount      | 17-4PH CRES<br>180-200 ksi | Passivate (F-17.25, which replaces F-17.09)                                                                  |
| 65-50964-2                                              | Bracket    | Al alloy                   | Chemical treat or chromic acid anodize and apply BMS 10-11, Type 1 primer (SRF-2.30)                         |
| 65-62580-1                                              | Stand Assy | Al alloy                   | Chemical treat or chromic acid anodize and apply BMS 10-11, Type 1 primer (SRF-2.30)                         |
| 65-62580-2                                              | Stand Assy | 321 or 347 CRES            | No finish (F-25.01)                                                                                          |
| 65-59388-7                                              | Spring     | AISI 1095                  | Cadmium-titanium plate (F-1.308, which replaces F-1.181). Apply BMS 10-11, Type 1 primer (F-20.03) all over. |
| 65-59388-9                                              | Spring     | AISI 1095                  | Cadmium-titanium plate (F-1.308, which replaces F-1.181). Apply BMS 10-11, Type 1 primer (F-20.03) all over. |
| 69-45785-1                                              | Bus bar    | Copper                     | Tin plate (F-4.21), or silver plate Type 3, Grade A, 0.001 inch minimum thick (SOPM 20-42-06)                |
| 69-50874-2<br>69-50882-2,-3<br>69-50883-2<br>69-50884-4 | Bracket    | 321 or 347 CRES            | Passivate (F-17.25, which replaces F-17.09)                                                                  |
| 69-55139-1                                              | Angle      | 321 or 347 CRES            | Passivate (F-17.25, which replaces F-17.09)                                                                  |

Refinish Table  
Figure 401

## ASSEMBLY

### 1. General

- A. To facilitate assembly, suspend APU from sling, Boeing F80188-17, C49004-1, -2, -3, -4 or equivalent. All reference to right- and left-hand is based on an observer looking forward from the engine exhaust to the accessory drive.

### 2. APU assemblies 65-50901-XX, 65-88961-XX (Fig. 1101, 1101A, 1101C, 1102)

#### A. Engine Mount Installation (Fig. 1101, 1101A, 1101C)

##### (1) Preassemble engine mounts as follows:

- (a) Install bolts with their heads forward, up and outboard relative to the engine.
  - (b) Install engine mount caps (147) on engine mounts (148, 149, 150) (240, 250, 255, 260, 265, Fig. 1101C), using bolts (146), (275, Fig. 1101C) washers (144, 145, 145A) (315, 325, 330, Fig. 1101C) and nuts (143) (270, Fig. 1101C). On assemblies 65-50901-1, -5 thru -10, -12, -13, -15, -17, -20, install washers as required to obtain 0.01- to 0.05-inch axial movement of bolts with cotter pins installed as shown in Fig. 501. Tighten nuts (143) finger-tight only. On assemblies 65-50901-16, -18, -19, -21 thru -74, spacers (145B) may be shortened as required (0.07 inch min) to obtain proper fit. Tighten nuts (143) (270, Fig. 1101C) finger-tight, then an additional 1/2-3/4 turn to align cotter pin holes. Washer (145C) (330, Fig. 1101C) may be used under head of bolt (146) (275, Fig. 1101C) if required to prevent end of bolt from contacting bracket (150), (255, 260, Fig. 1101C).
  - (c) Install cotter pins (142, Fig. 1101) (310, Fig. 1101C) per SOPM 20-50-02.
  - (d) Install identification plate (151, Fig. 1101) (605, Fig. 1101C) with lockwire per SOPM 20-50-02.
- (2) Install engine mount (148) (240, 265, Fig. 1101C) on right-hand aft engine mount pad, using bolts (139) (285, Fig. 1101C) and washers (141) (335, Fig. 1101C). Lockwire bolts per SOPM 20-50-02.
  - (3) Install engine mount (150) (255, 260, Fig. 1101C) on left-hand aft engine mount pad, using bolts (140) (280, Fig. 1101C) and washers (141) (335, Fig. 1101C). Lockwire bolts per SOPM 20-50-02.
  - (4) Install engine mount (149) (245, 250, Fig. 1101C) on right-hand forward engine mount pad, using bolts (139) (285, 290, Fig. 1101C) and washers (141) (305, 355, Fig. 1101C). Lockwire bolts per SOPM 20-50-02.

#### B. Stand Assembly Installation (Fig. 1101, 1101A, 1101C)

- (1) Remove existing engine bolts. Install stand assembly (138, Fig. 1101) (395, Fig. 1101C) and spacers (137) (620, Fig. 1101C) on forward face of engine flange, using bolts (136) (595, Fig. 1101C), washers (135A) and nuts (135).

C. Tach Generator (Fig. 1101A)

- (1) Install new gasket (165).
- (2) Install tach generator (166), washers (164), and nuts (163).
- (3) Secure with lockwire.
- (4) Install connector on tach generator.

D. Generator Assembly and Cooling Duct Installation (Fig. 1101, 1101A)

- (1) Install nuts (106, Fig. 1101; 155, Fig. 1101A), on first five threads of studs on forward face of engine (152) accessory drive.
- (2) Apply lubricating compound to splines of generator shaft.

CAUTION: PROVIDE ADEQUATE SUPPORT FOR GENERATOR TO PREVENT DAMAGE TO GENERATOR OR ENGINE WHEN MATING SPLINED SHAFTS. THE 40 KVA GENERATOR WEIGHS APPROXIMATELY 80 POUNDS.

- (3) Place generator (134) on suitable support. Index generator so terminal base will be on right-hand side of engine after generator is installed. Generator terminal block centerline will be 9 degrees above horizontal centerline of generator in final position (Fig. 502).
- (4) Mate generator shaft splines with splines on engine shaft. Slide generator over nuts (106, Fig. 1101; 155, Fig. 1101A) against mounting pad on engine.
- (5) Rotate generator clockwise until mounting studs are in slotted part of holes in generator flange. Tighten nuts (106, Fig 1101; 155, Fig 1101A) to 160-190 lb-in. Do not apply putty or other material which could enter the generator air intake.
- (6) Install generator cooling duct bracket assembly (130), using screws (129).
- (7) Attach transformer (112) to transformer mount assembly (116), using bolts (110) and washers (111).
- (8) Install transformer (112) and mount assembly (116) on bracket assembly (130), using bolts (113 and 114) and washers (115).
- (9) Install generator cooling duct (109) on bracket assembly (130), using bolt (108) and washer (111). Install clamps (105) to secure cooling duct to engine (152). Install screen (134A).

E. Oil Tank Cap Installation (Fig. 1101, 1101A)

- (1) Install O-ring (97) on cap assembly (96) per 20-50-06.
- (2) Install O-ring (101) on funnel assembly (102) per 20-50-06.
- (3) Attach chain assembly (103) to funnel assembly (102).
- (4) Install funnel assembly (102) in oil tank filler and secure with bolt (100), washer (99) and nut (98).
- (5) Attach free end of chain assembly (103) to chain link (104).
- (6) Attach chain link (104) to cap assembly (96).
- (7) Install cap assembly (96) in funnel assembly (102).

F. Oil Level Indicator or Switch Installation (Fig. 1101, 1101A)

NOTE: After completion of indicator or switch installation, fill engine oil tank in accordance with vendor instructions. Check for leakage.

(1) Indicator

- (a) Preassemble oil level transmitter (80) in stillwell assembly (81) and secure with screws (78) and washers (79).
- (b) Install oil level transmitter and stillwell assembly (81) on engine oil tank with gaskets (77), bolts (75) and washers (76). Lockwire bolts (75) per 20-50-02.

(2) Switch

- (a) Attach bracket (95) to engine flange with existing fasteners.
- (b) Position switch (94) with O-ring (93), or O-ring (93) and backup ring (93A), to lower port of engine oil tank with washers (92) and screws (91). Lockwire screws (91) per 20-50-02.
- (c) Connect switch (94) wires to pin numbers 2 and 5 of receptacle (85) per 20-11-02. Attach switch wire to engine plumbing with clamps (89 and 90), screws (88), washers (87) and nuts (86).
- (d) On 65-50901-28, -32, -40, -42, -54, -60, -71 assemblies, install switch (95C) with O-ring (95D) and backup ring (95E) with screw (95A) and washer (95B).
- (e) On 65-50901-28, -32, -40, -42, -54, -60, -71 assemblies, connect switch (95C) wires with sleeve (95I) to connector (95J) and attach connector to bracket on engine oil tank with bolts (95F), washers (95G) and nut (95H).

- (f) Position switch (94) and receptacle (85) on bracket (95) and secure with screws (84), washers (83) and nuts (82).

G. Fuel Filter Installation (Fig. 1101, 1101A, 1101C)

- (1) Install fitting (59), (510, Fig. 1101C) and O-ring (58), (525, Fig. 1101C) to engine (152), (225, Fig. 1101C) fuel system.
- (2) Attach bracket (65), (475, Fig. 1101C) to fitting (59), (510, Fig. 1101C) with washer (61), (490, Fig. 1101C) and nut (60), (480, Fig. 1101C). Do not fully tighten nut (60) at this time.
- (3) Connect tube assembly (54), (465, Fig. 1101C) to fitting (59), (510, Fig. 1101C).
- (4) Cut lockwire and disassemble filter assembly (70), (470, Fig. 1101C) to remove bowl (72), element (73) and O-ring (74) from filter head (71).
- (5) Install fitting (66), (515, Fig. 1101C) in fuel pump inlet with O-ring (69), (530, Fig. 1101C).
- (6) Install nut (68), (485, Fig. 1101C) and O-ring (69), (530, Fig. 1101C) on fitting (66), (515, Fig. 1101C).
- (7) Thread OUT port of filter head (71) onto fitting (66), (515, Fig. 1101C).
- (8) Seat O-ring (69), (530, Fig. 1101C) in filter head and tighten nut (68), (485, Fig. 1101C).
- (9) Install nut (68), (485, Fig. 1101C) and O-ring (69), (530, Fig. 1101C) on elbow (67), (520, Fig. 1101C).
- (10) Install elbow (67), (520, Fig. 1101C) in IN port of filter head (71) and tighten nut (68), (485, Fig. 1101C).
- (11) Secure free end of bracket (65), (475, Fig. 1101C) to filter head (71) with bolt (64), (535, Fig. 1101C), nut (62), (535A, Fig. 1101C), and washers (63), (535B, Fig. 1101C). Use washers (63), (535B, Fig. 1101C) as required to fit bracket (65), (475, Fig. 1101C) to filter head. Fully tighten nut (60), (480, Fig. 1101C).
- (12) Reassemble filter element (73) and O-ring packing (74), together with filter bowl (72), back-up ring (74A), and O-ring packing (74B) to filter head (71). Tighten filter bowl to 75 lb-in max (lubricated). Lockwire filter bowl to filter head.

H. Exhaust Baffle Installation (Fig. 1101, 1101A)

**WARNING:** THE EXHAUST DUCT BAFFLE SEAL (50) CONTAINS ASBESTOS. WEAR APPROVED TYPE RESPIRATOR WHEN PERFORMING ACTIVITIES WHICH MAY GENERATE ASBESTOS FIBERS OR DUST.

- (1) Attach baffle seal (50) to seal ring (53), using bolts (48) and retainer strap (49) (Fig. 503).

**NOTE:** If installing new seal (50), drill to match holes on seal ring (53).

- (2) Install preassembled baffle seal on engine (152, Fig. 1101) with spacer ring (47), retainer ring (46) and bolts (45).



**BOEING**   
**COMMERCIAL JET**  
**OVERHAUL MANUAL**

I. Tracks, Seals and Spring Assembly Installation (Fig. 1101, 1101A)

- (1) Install pin (36) in spring (37) to form spring assembly (35) (Fig. 503).
- (2) Secure seal assembly (38, Fig. 1101) and spring assembly (35) to engine (152), using bolts (33) and washers (34).

WARNING: METHYL ETHYL KETONE USED TO PREPARE BONDING SURFACES IS EXTREMELY VOLATILE AND TOXIC. DO NOT USE NEAR OPEN FLAME. USE IN WELL VENTILATED AREA, AVOID BREATHING FUMES AND USE NECESSARY PROTECTIVE CLOTHING.

- (3) Bond tracks (44, Fig. 1101) to engine (152) per 20-50-12, Type 38, special method No. 1 using adhesive BMS 5-29, Type 1. Leave 0.05-inch margin between edge of track (44) and outer edge of engine (152) compressor air inlet.
- (4) Insert seals (43, Fig. 1101) in tracks (44). Trim seals flush with ends of track and engine flange. Crimp ends of track (44) to secure seal.
- (5) Bond seal (43, Fig. 1101A) to seal track per 20-50-12 using Type 60 adhesive. Bond approximately 3-inch length from end of seal. Ensure seal is flush with engine flange.

J. Electrical Wiring Installation (Fig. 504)

- (1) Connect starter cables to terminals on starter.
- (2) Connect exciter cables to terminals of exciter terminal block as shown. Tighten nuts to 20-25 pound-inches. Install exciter terminal block cover.
- (3) Insert three ground wires through holes in transformer (112, Fig. 1101; 161, Fig. 1101A) and connect to generator output terminal block as shown. Tighten nuts to 115-125 pound-inches.
- (4) Connect four ground cables to ground bus as shown. Secure ground cables with bolts (31, Fig. 1101, 1101A), washers (30, Fig. 1101, 1101A) and nuts (29, Fig. 1101, 1101A).
- (5) Connect three output cables to generator output terminals T1, T2 and T3 as shown. Tighten nuts to 115-125 pound-inches. Install generator output terminal block cover.
- (6) Install clamp (28, Fig. 1101, 1101A) on harness and secure to generator output terminal block.
- (7) Connect plug D28 to transformer receptacle.

**OVERHAUL MANUAL****K. Fire Detector Mount Installation (Fig. 1101, 1101A)**

- (1) Install brackets (21 and 27) on engine with bolts (25) and washers (26). Lockwire bolts per 20-50-02.
- (2) Install bracket assembly (17) on engine with bolts (16), washers (15) and nuts (14).
- (3) Secure bracket assembly (9) to bracket assemblies (17 and 21) with screws (7) and washers (8).

**L. Drain Tube Assembly Installation (Fig. 1101A)**

- (1) For APU assemblies 65-50901-85, -87, -91, -95 and -99, do the following procedures:
  - (a) Install housing assembly (5C) on the drain outlet. Tighten to 270 pound-inches.
  - (b) Install hose assembly (1), O-rings (4B, 5B) and unions (4A, 5A) between housing assembly (5C) and the existing connection at the engine combustor cap assembly.
  - (c) Install seal (6) on the housing assembly (5C) by compressing the seal (6) by 0.26 inch onto the housing assembly (5C).

NOTE: The force necessary to compress the seal (6) by 0.26 inch is 2-4 pounds.

- (2) For other APU assemblies, do the following procedures:
  - (a) Install fitting (5) on the drain outlet.
  - (b) Install the drain tube assembly or the hose assembly (1A) between the fitting (5) and the existing connection at the engine combustion cap assembly.
  - (c) Install seal (6) on the fitting (5) by compressing the seal (6) by 0.26 inch onto the housing assembly (5C).

NOTE: The force necessary to compress the seal (6) by 0.26 inch is 2-4 pounds.

**M. Fire Detector (Fig. 1102)**

NOTE: Steps are keyed to specific detectors as indicated. Also use information noted during disassembly.

- (1) (10-61096-106, -316) — Install bracket (39) using two screws (32) and two washers (33).

65-50901  
65-88936  
65C35424  
65C35694



- (2) (10-61096-106, -316) -- Install stud (38) on bracket (39) using washers (37), lockwasher (36) and nut (35). Check for electrical bond of 0.0025 ohm maximum resistance between grounding stud (38) and APU structure.
- (3) (10-61096-36, -37, -39, -106, -317) -- Install clamps (34) using screws (32) and washers (33), or rivets (34A).
- (4) (10-61096-106, -316) -- Plug unused nutplate hole with screw (32) and two washers (33).
- (5) (ALL EXCEPT 10-61096-17) -- Install two clamps (31) using screws (27) and washers (29), and two clamps (31) using screws (28) and washers (29, 30). Install receptacle coverplate (21) if used and secure with screws (20), washers (19) and nuts (18).
- (6) (10-61096-316) -- Plug unused grommet hole with coverplate spacer (26) and coverplates (25). Secure coverplates with rivets (24). Plug unused nutplates with screws (22) and washers (23).
- (7) (10-61096-17) -- Attach bracket (16) with screws (7), washers (9) and nuts (10).
- (8) (10-61096-17) -- Install clamps (13) with screws (8), spacers (12), washers (9) and nuts (10).
- (9) (10-61096-106, -116) -- Install grommet (17) per 20-50-09, and install clamps (13) with screws (7, 8), spacers (11, 12) and washers (9).
- (10) (ALL EXCEPT 10-61096-17) -- Install fire detector thru grommet (17) (if used) and in quick-release clamps (13, 31, 34) and brackets (16, 39).
- (11) (10-61096-106, -116, -217, -316) -- Install nuts (5) and lockwire.
- (12) (10-61096-36, -37, -39) -- Connect ground cable to detector (6) using clamp (43) and parts (40, 41, 42).
- (13) Check for electrical bond of 0.0025-ohm maximum resistance between detector (6) and bracket (16 or 39) and APU structure.
- (14) If used, install clamps (4) with screws (3), washers (2) and nuts (1).

3. APU assemblies 65C35424-XX (Fig. 1101B, 1101D, 1102A)

A. Generator Assembly and Tooling Duct Installation (Fig. 1101B, 1101D)

- (1) Apply lubricating compound to splines of generator shaft.

**CAUTION:** PROVIDE ADEQUATE SUPPORT FOR GENERATOR TO PREVENT DAMAGE TO GENERATOR OR ENGINE WHEN MATING SPLINED SHAFTS. THE 40 KVA GENERATOR WEIGHS APPROXIMATELY 80 POUNDS.

- (2) Place generator (345) on suitable support. Index generator such that terminal block centerline will be canted 9 degrees from vertical toward the left-hand side of the engine.
- (3) Mate generator shaft splines with splines on engine shaft. Slide generator onto bolt studs. Install washers (340) and tighten nuts (335) to 160-190 lb-in. Do not apply putty or other material which could enter the generator air intake.
- (4) Install bracket assembly (305).
- (5) Install oil cooler (250) with bolts (240) and washers (245).
- (6) Install the quantity and the type of shims (330) that you wrote down during disassembly. If you did not write down the quantity and type of shims or if this is the first buildup, install the shims as required to maintain 0.000-0.035 inch gap between the oil cooler (250) and the cooling duct (285) before you fully tighten the bolts (290).
- (7) Install clamp flange (300) using bolts (290) and washers (295).
- (8) Install clamp (280) to secure cooling duct (285) to engine (350).

B. Oil-Cooler Installation (Fig. 1101B, 1101D)

- (1) Install bolts (255 thru 270) and washers (275).
- (2) APU Assembly 65C35424-1, -2, -3, -4 (Fig. 1101B)
- (a) Install the exhaust cooling air duct (215) and bracket assembly (220) with the bolt (180), the bolt (195), the three bolts (205), the four clamps (5, 5A thru 5C), the spacer (190), the three spacers (210), and the four washers (200).
- (3) APU Assembly 65C35424-5 (Fig. 1101D)
- (a) Install the exhaust cooling air duct (215) and bracket assembly (220) with the bolt (180), the bolt (195), the bracket (213), the three bolts (205), the four clamps (5, 5A thru 5C), the spacer (190), the three spacers (210), and the four washers (200).
- (4) APU Assembly 65C35424-5 (Fig. 1101D)
- (a) Install the flexible hose assembly.

- (5) Install elbow (170), packing (165), retainer (160), nut (155) and tube assembly (175).
- (6) Install elbow (145), packing (140), retainer (135), nut (130) and tube assembly (150).
- (7) Install fan adaptor duct assembly (125) with v-clamps (120, 115).

C. Event Monitor Unit and Transformer Installation (Fig. 1101B, 1101D)

- (1) Install bracket assembly (95) with bolts (85) and washers (90). Install event monitor unit (80) with nuts (70) and washers (75).
- (2) Install transformer mount assembly (60) with the bolt (50), bolt (53), and washers (55). Install transformer (45) with washers (40) and bolts (30, 35).

D. Electrical Wiring Installation (Fig. 504, 1101B, 1101D)

- (1) Route starter cables from plug D4802P through clamps (5E), (5F) and connect to terminals on starter.
- (2) Connect three ground wires to generator output terminals T4, T5, T6 as shown. Tighten nuts (10) to 115-125 pound-inches. Route the three wires through clamp (5C) and through holes in transformer (45) to transformer terminals as shown. Route ground wire from plug D4802P through clamps (5E), (5F), (5G) to terminal B3 on transformer (not through holes in transformer). Install bolts (15), washers (20), and nuts (10) on transformer terminals.
- (3) Connect three generator output wires from plug D4800P to generator output terminals T1, T2, T3 as shown. Tighten nuts to 115-125 pound-inches. Install terminal block cover.
- (4) Route exciter cables from plug D4804P through clamps (5), (5C) to exciter terminals A and F as shown. Tighten nuts to 20-25 pound-inches. Install exciter terminal block cover. Route plug D28 and wire from plug D4804P through clamps (5), (5C) to receptacle on transformer.
- (5) Put the vendor wire from the vendor plug P21 through the clamps (5A), (5B) and connect it to the generator side of the APU.
- (6) Connect the vendor plug P21 to the low oil pressure switch.
- (7) Route vendor wire from vendor plug P14 through clamps (5D), (5A), (5B) to main vendor wiring harness.
- (8) Connect vendor plug P12 and two adjacent plugs to event monitor unit (80).

**E. Fire Detector (Fig. 1102A)**

- (1) For fire detector (130), install screw (120), washers (110, 115), and nut (105). Install clamp (100) with bolt (90) and washer (95).

For fire detector (125), install screw (75), washers (80, 85) and nut (70).

- (2) Install clamps (60, 65) and spacers (55) with bolt (50), washer (45) and nut (40).
- (3) Install clamp (35) and spacer (30) with bolt (20) and washer (25).
- (4) Check for electrical bond of 0.0025 ohm maximum resistance between detector (125, 130) and bracket and APU structure.
- (5) Install clamps (15) with bolts (5) and washers (10).

**4. APU assemblies 65C35694-XX, 65-50901-98 (Fig. 1101C, 1102B)****A. Generator Assembly and Cooling Duct Installation (Fig. 1101C)**

- (1) Install nuts (215) on first five threads of studs on forward face of APU (225) accessory drive.
- (2) Apply lubricating compound to splines of generator shaft.

**CAUTION:** PROVIDE ADEQUATE SUPPORT FOR GENERATOR TO PREVENT DAMAGE TO GENERATOR OR APU WHEN MATING SPLINED SHAFTS. THE 40 KVA GENERATOR WEIGHS APPROXIMATELY 80 POUNDS.

- (3) Place generator (220) on a suitable support. Index generator so terminal base will be on right-hand side of engine after generator is installed. Generator terminal block centerline will be 30 degrees above horizontal centerline of generator in final position.
- (4) Mate generator shaft splines with splines on engine shaft. Slide generator over nuts (215) against mounting pad on engine.
- (5) Rotate generator clockwise until mounting studs are in slotted part of holes in generator flange. Tighten nuts (215) to 160-190 lb-in. Do not apply putty or other material which could enter the generator air intake.
- (6) Install generator cooling duct bracket assembly (195), with bolts (190).
- (7) Attach transformer mount assembly (85) to generator (220), using bolts (65, 75) and washers (70, 80).

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- (8) Attach transformer (60) to transformer mount assembly (85) with bolts (50) and washers (55).
- (9) Install generator cooling duct (185) on cooling duct bracket (195), using bolt (175) and washer (180).
- (10) Install v-clamps (155, 165) and gaskets (160, 170) to secure duct (185) to engine (225).

**B. Electrical Wiring Installation (Fig. 504, 1101C)**

- (1) Route starter cables from plug D4802P through clamps (5C) and (5B) to terminals on starter.
- (2) Connect exciter cables to terminals of exciter terminal block as shown. Install washers (25) and nuts (20) and tighten to 20-25 pound-inches. Install exciter terminal clock cover.
- (3) Connect three ground wires to generator output terminals T4, T5, T6 as shown. Tighten nuts (10) to 115-125 pound-inches. Route the three wires through the holes in the transformer (60) to transformer terminals as shown. Route ground wire from plug D4802P through clamp (5C) to terminal B3 on transformer (not through holes in transformer). Secure ground cables with bolts (35), washers (40), and nuts (30).
- (4) Connect three generator output cables from plug D4800P to generator output terminals T1, T2, and T3 as shown. Install washers (15) and nuts (10) and tighten to 20-25 pound-inches. Install generator output terminal block cover.
- (5) Route plug D28 from plug D4804P through clamp (5) to receptacle on transformer. Secure clamp (5) to generator output terminal block.

**C. Fire Detector (Fig. 1102B)**

- (1) For fire detector (65), install bolt (50), washer (55), and clamp (60).

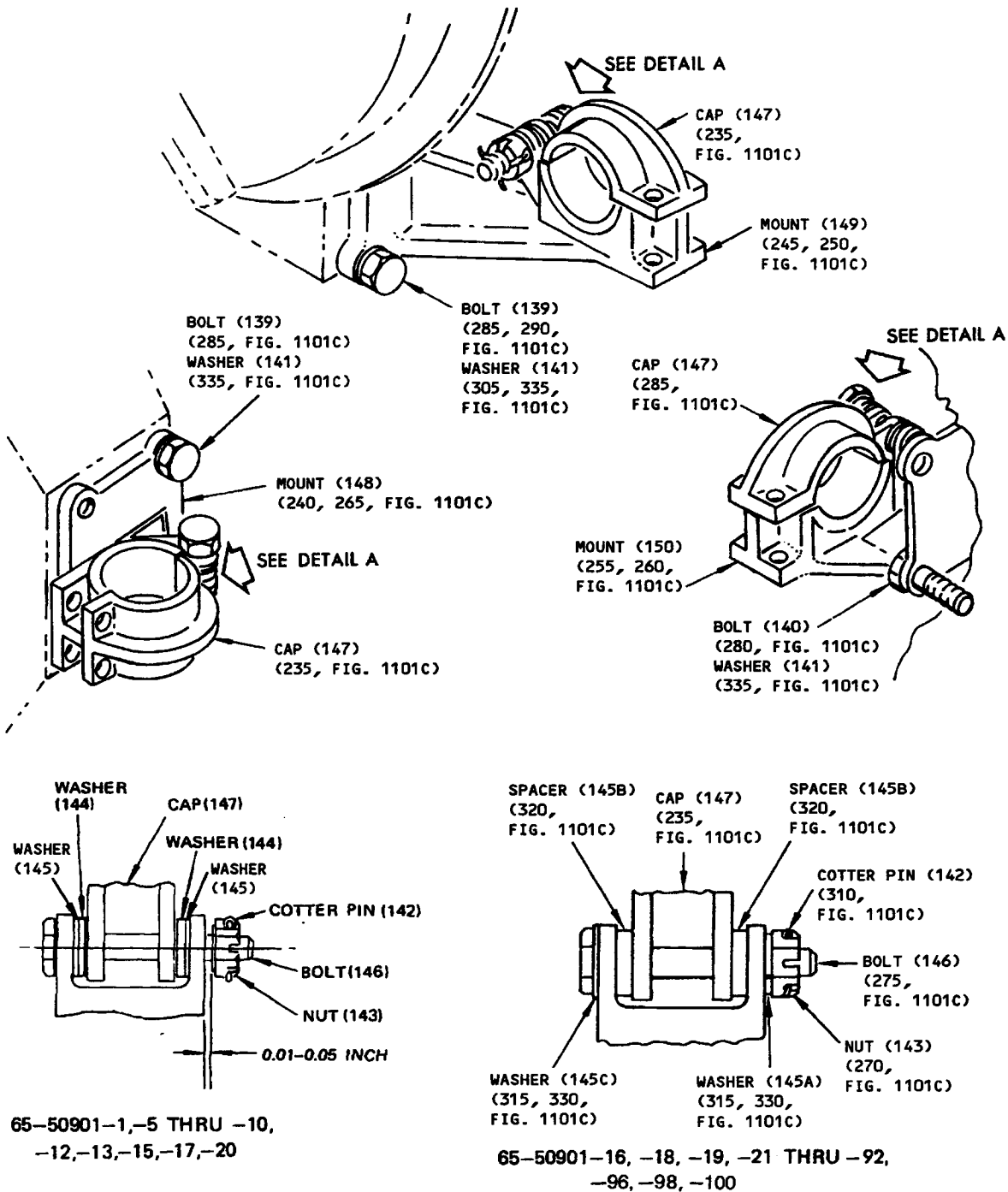
For fire detector (70), install bolts (50) and washers (55). If fire detector has not been previously installed on an APU, remove and reinstall bolts (50) and washers (55) supplied with fire detector. Remove and discard nuts supplied with fire detector.

- (2) Install bolt (45), washers (35, 40), and nut (30).
- (3) Check for electrical bond of 0.0025 ohm maximum resistance between detector (65, 70) and detector mount bracket and APU structure.
- (4) Install clamps (20) and clamp (25) with bolts (15), washers (10), and nuts (5).

5. Materials

- A. Lubricating Compound -- 1:1 mixture (by weight) of MIL-M-7866 molybdenum disulfide and Rheotemp 500 grease (replaces Texaco Unitemp 500 grease) (SOPM 20-60-03).
- B. Lubricating Compound (alternate) -- Premixed lubricant 668272-2 (SOPM 20-60-03).
- C. Methyl Ethyl Ketone -- TT-M-261 (SOPM 20-60-01)
- D. Bonding Adhesive --
  - (1) BMS 5-29, Type 1 (SOPM 20-60-04)
  - (2) Type 60 (SOPM 20-50-12)





**DETAIL A**

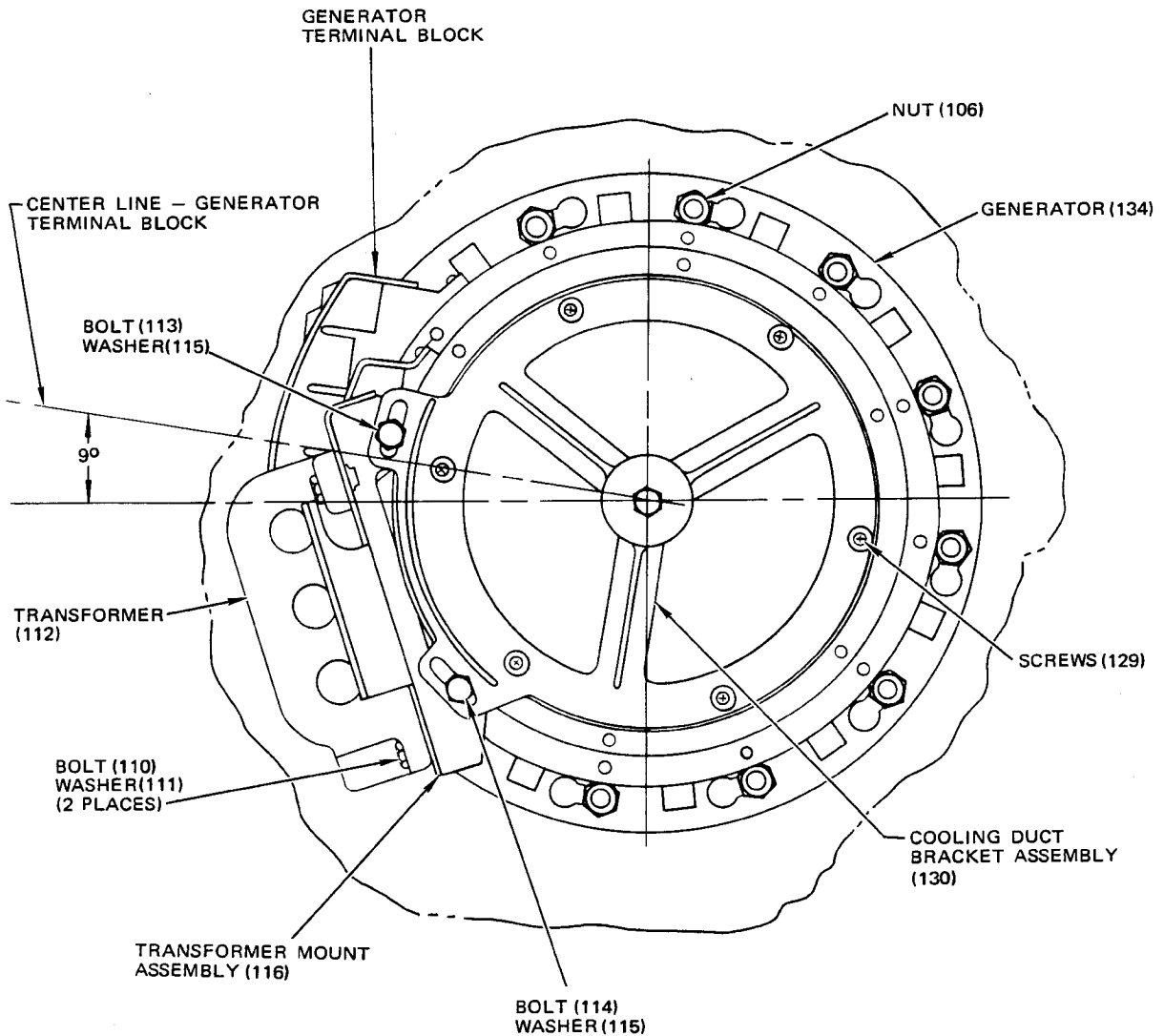
ITEM NUMBERS REFER TO FIG. 1101, 1101A, 1101C

**APU Mount Bracket Installation  
Figure 501**

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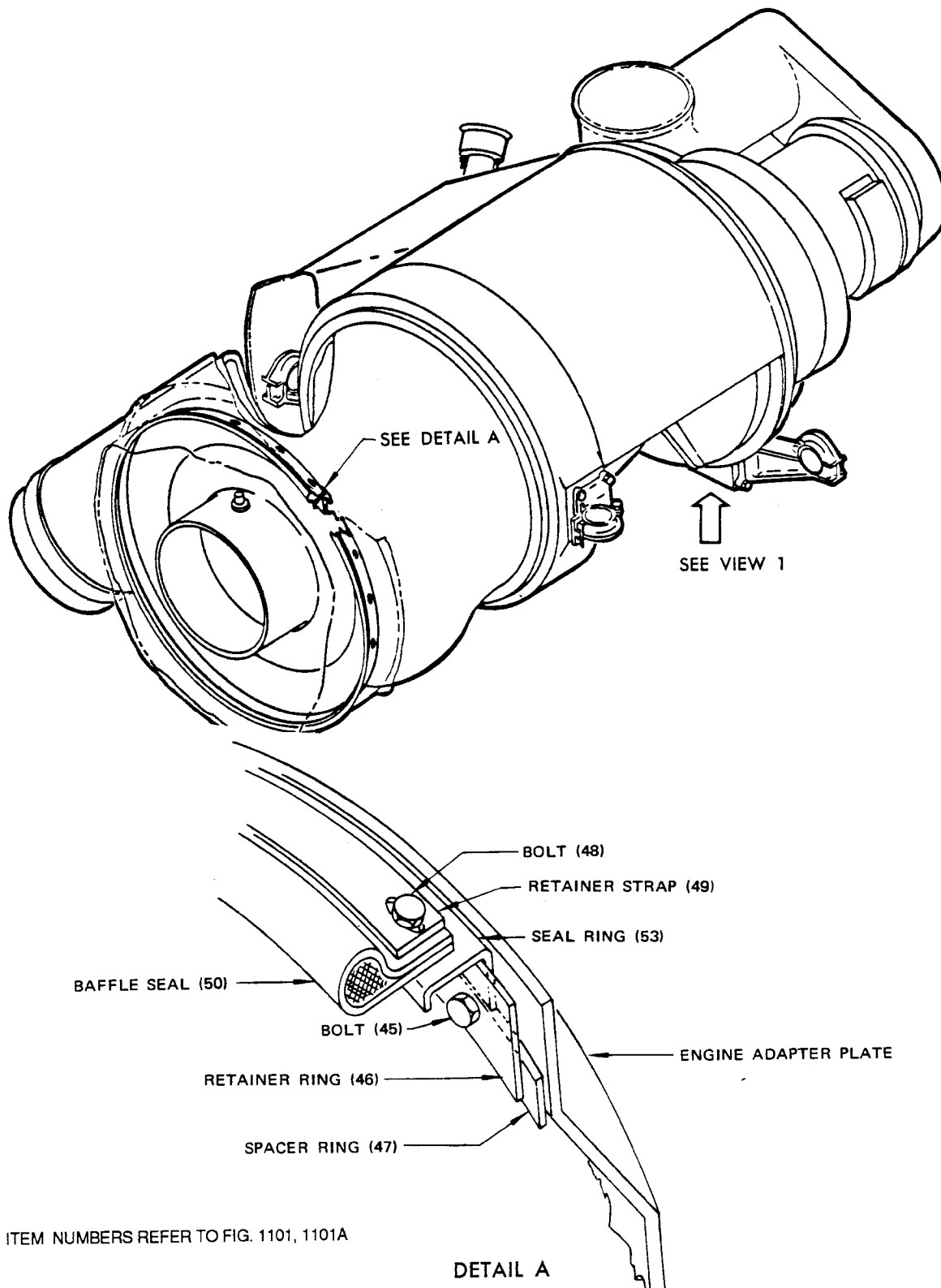


## OVERHAUL MANUAL



ITEM NUMBERS REFER TO FIG. 1101, 1101A

Generator Cooling Duct Bracket Assembly Detail  
Figure 502



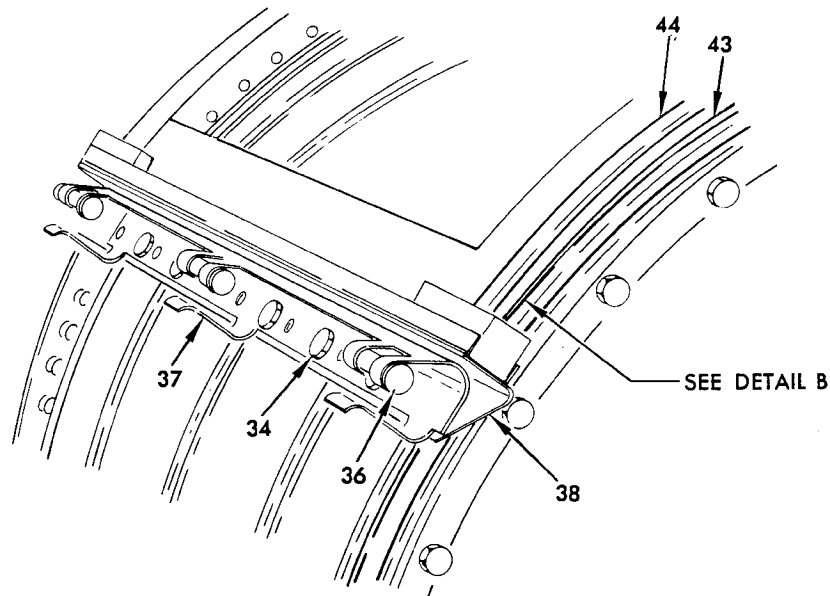
ITEM NUMBERS REFER TO FIG. 1101, 1101A

Baffle and Inlet Seal Assembly Details  
Figure 503 (Sheet 1)

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65C35424  
65C35694

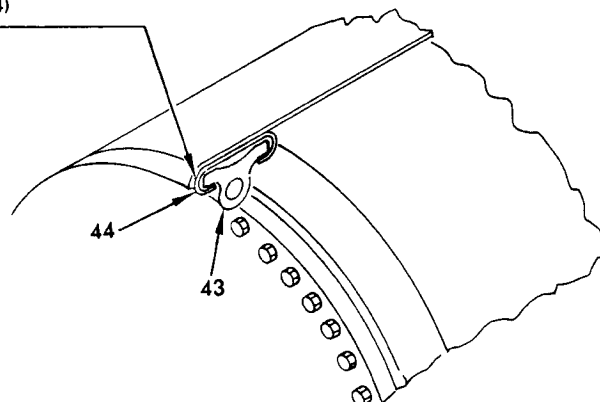


# OVERHAUL MANUAL



VIEW 1

ALLOW 0.05-INCH MARGIN  
BETWEEN TRACK (44)  
AND INLET SHROUD

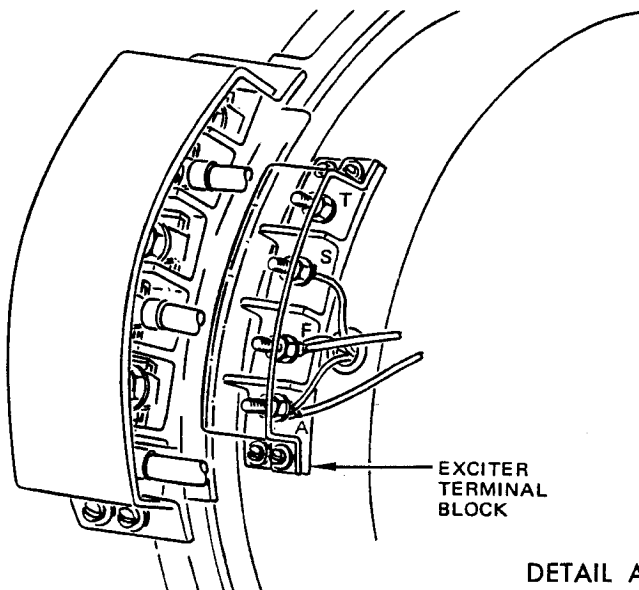
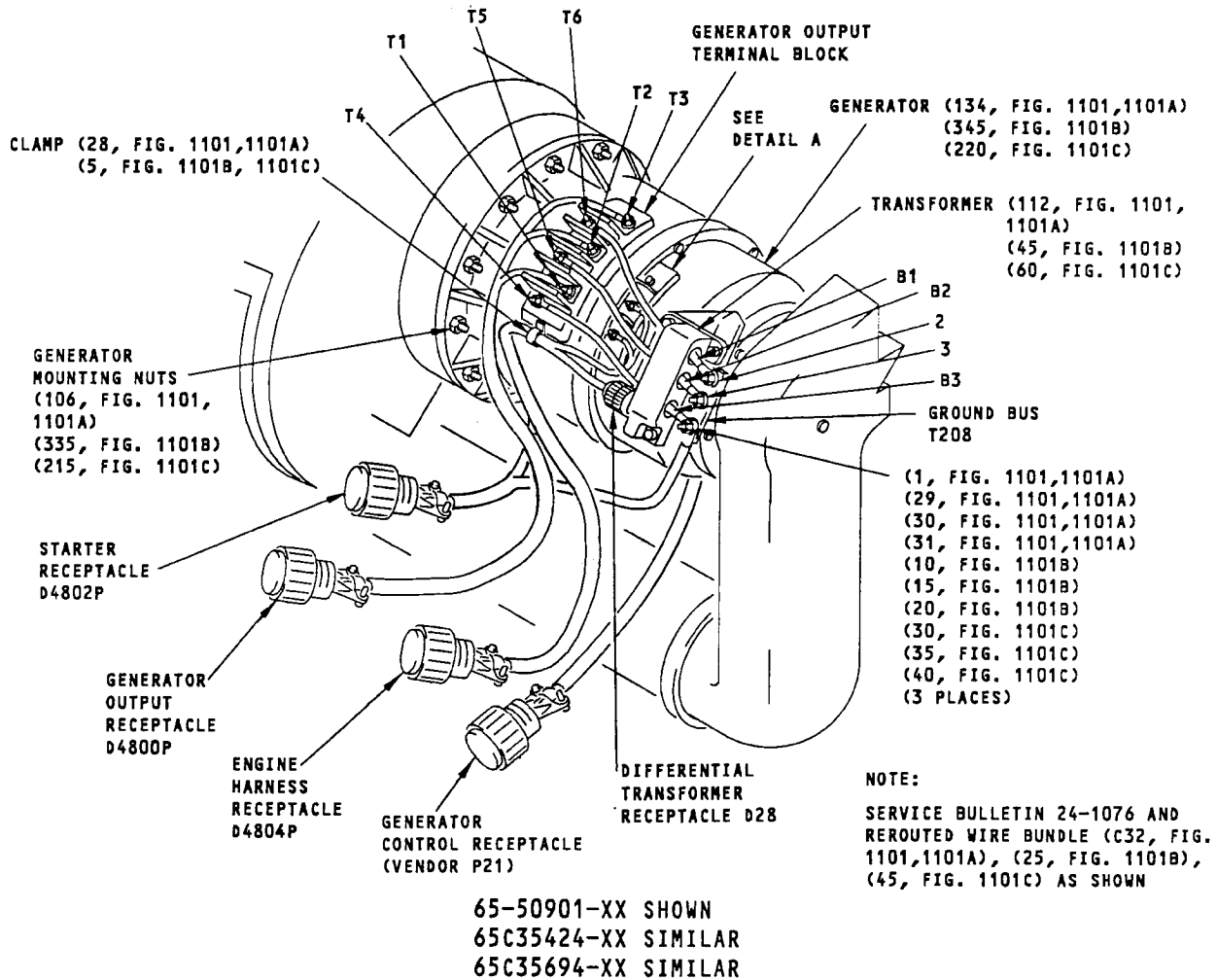


ITEM NUMBERS REFER TO FIG. 1101, 1101A

DETAIL B

Baffle and Inlet Seal Assembly Details  
Figure 503 (Sheet 2)

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65C35424  
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NOTE:  
CONNECTIONS SHOWN  
ARE THOSE USED WITH  
TRANSISTORIZED VOLTAGE  
REGULATOR

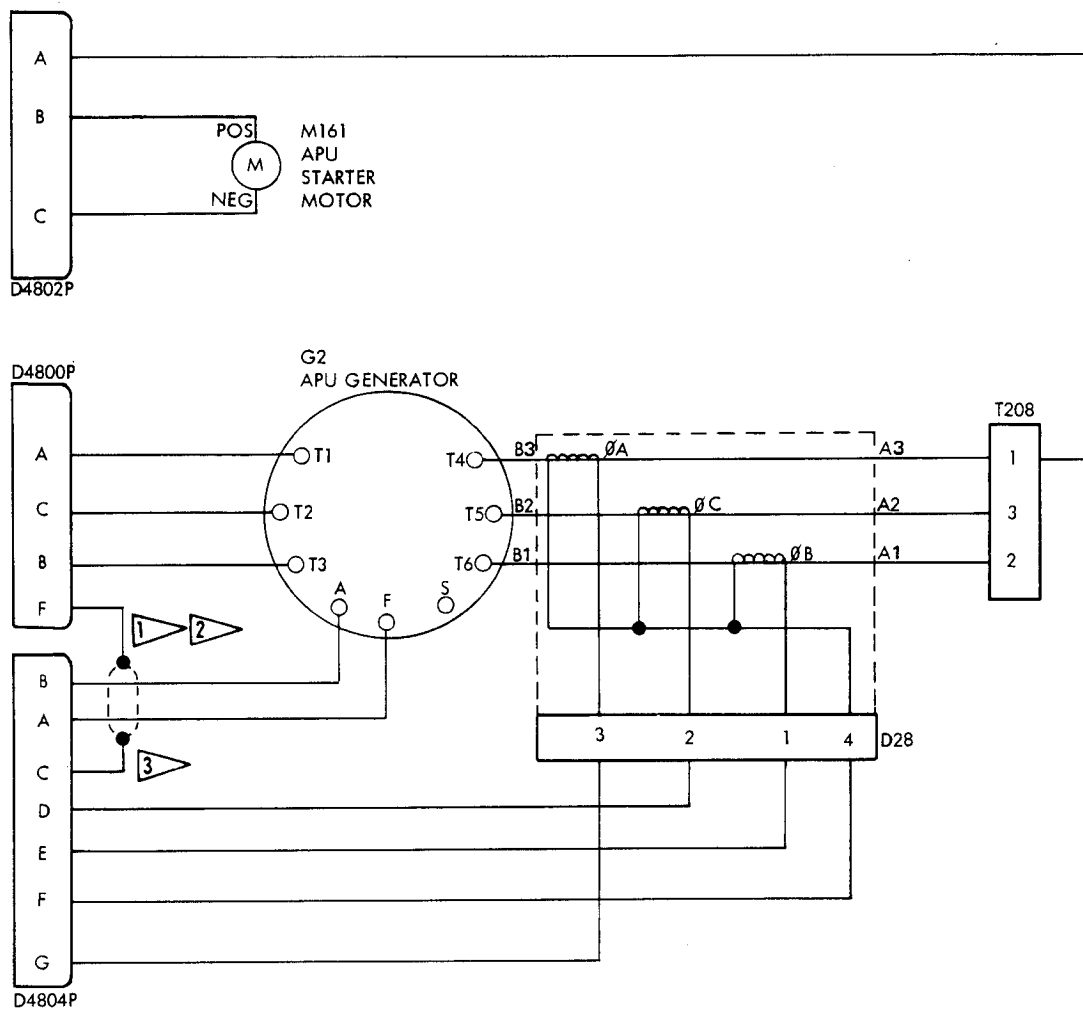
DETAIL A

Generator Installation  
Figure 504 (Sheet 1)

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- 1 SHIELD GROUNDED ON INSTALLATION THROUGH PIN F OF JACK D4800J (PRE SB 24-1045)
- 2 THIS CONNECTION DELETED AND CAPPED PER SB 24-1045
- 3 SHIELD GROUNDED ON INSTALLATION THROUGH PIN C OF JACK D4804J (POST SB 24-1045)

Generator Installation  
Figure 504 (Sheet 2)

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### FITS AND CLEARANCES

|                          |                                              | Design Dimensions      |                 |                                 |        | Service Wear Limits             |        |                                             |
|--------------------------|----------------------------------------------|------------------------|-----------------|---------------------------------|--------|---------------------------------|--------|---------------------------------------------|
| Ref<br>Letter<br>Fig.601 | Mating<br>Item No.<br>Fig. 1101<br>and 1101A | Dimensions<br>(inches) |                 | Assembly<br>Clearance<br>(inch) |        | Dimension<br>Limits<br>(inches) |        | Maximum<br>Allowable<br>Clearance<br>(inch) |
|                          |                                              | Min                    | Max             | Min                             | Max    | Min                             | Max    |                                             |
|                          | ID *[1]<br>OD 146                            | 0.200<br>0.1890        | 0.204<br>0.1895 | 0.0105                          | 0.0150 | 0.1890                          | 0.2115 | 0.0225<br>*[2]                              |

\*[1] 147, 148, 149 and 150

\*[2] Maximum allowable clearance remains same if oversize bolt has been installed (refer to REPAIR section).



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#### STORAGE INSTRUCTIONS

##### 1. Preservation

- A. Preserve engine per supplier overhaul manual instructions.
- B. Cover all inlet and outlet openings with vapor barrier material taped in place.
- C. Cap or plug all electrical connectors, fuel inlet connections and drain connections.

##### 2. Storage

- A. Store engine in accordance with vendor instructions.
- B. For further information, refer to 20-44-02.



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### SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

#### 1. Tools

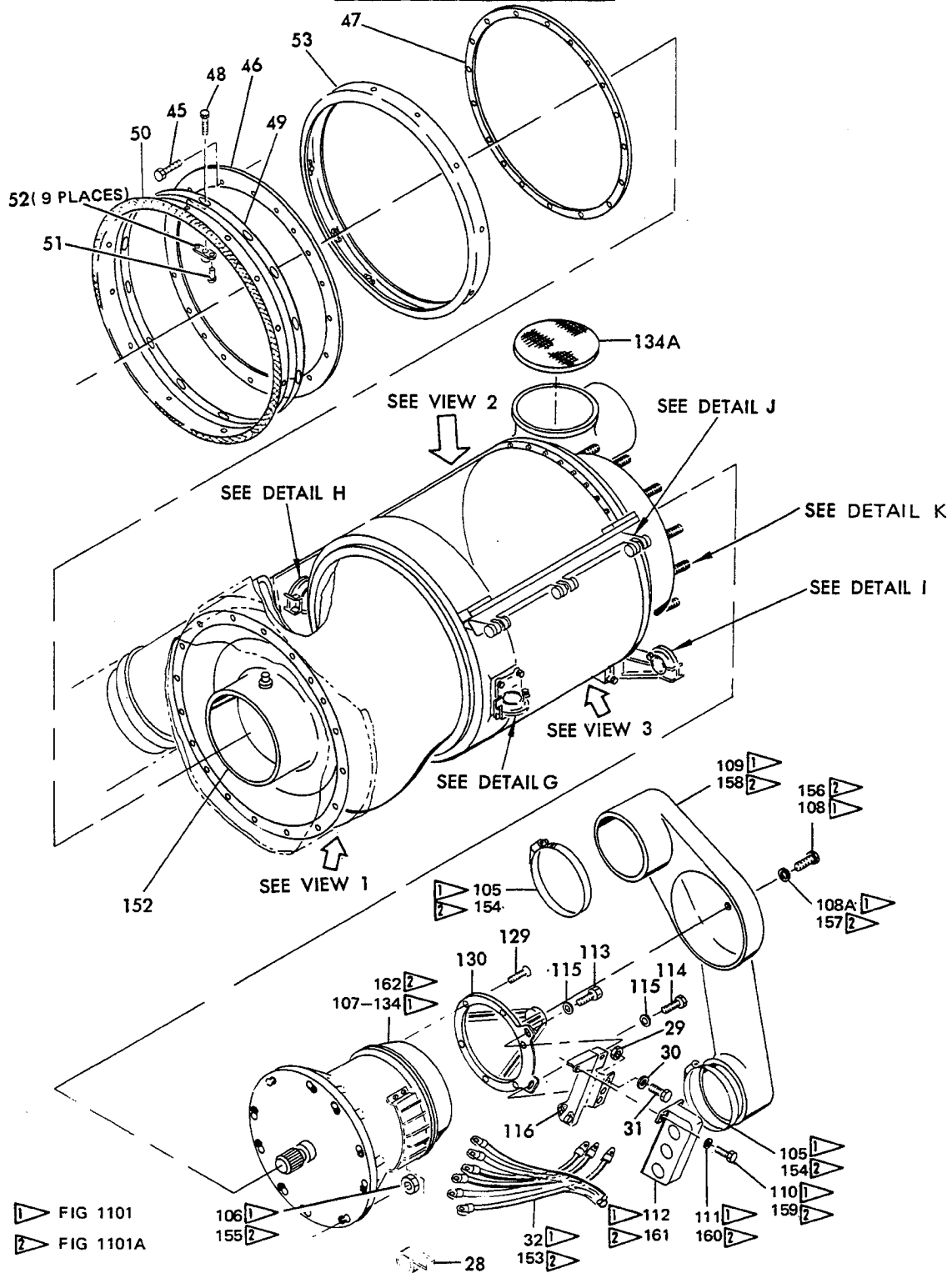
- A. Auxiliary Power Unit Sling (Garrett GTCP 85-129) -- F80188-17  
(Supersedes ME 65-50901, F80188-10)
- B. Auxiliary Power Unit Sling (Garrett GTCP 85-129, GTCP 36-280, Sundstrand  
APS 2000) -- C49004-1, -2, -3, -4

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**BOEING**  
**COMMERCIAL JET**

OVERHAUL MANUAL

ILLUSTRATED PARTS LIST

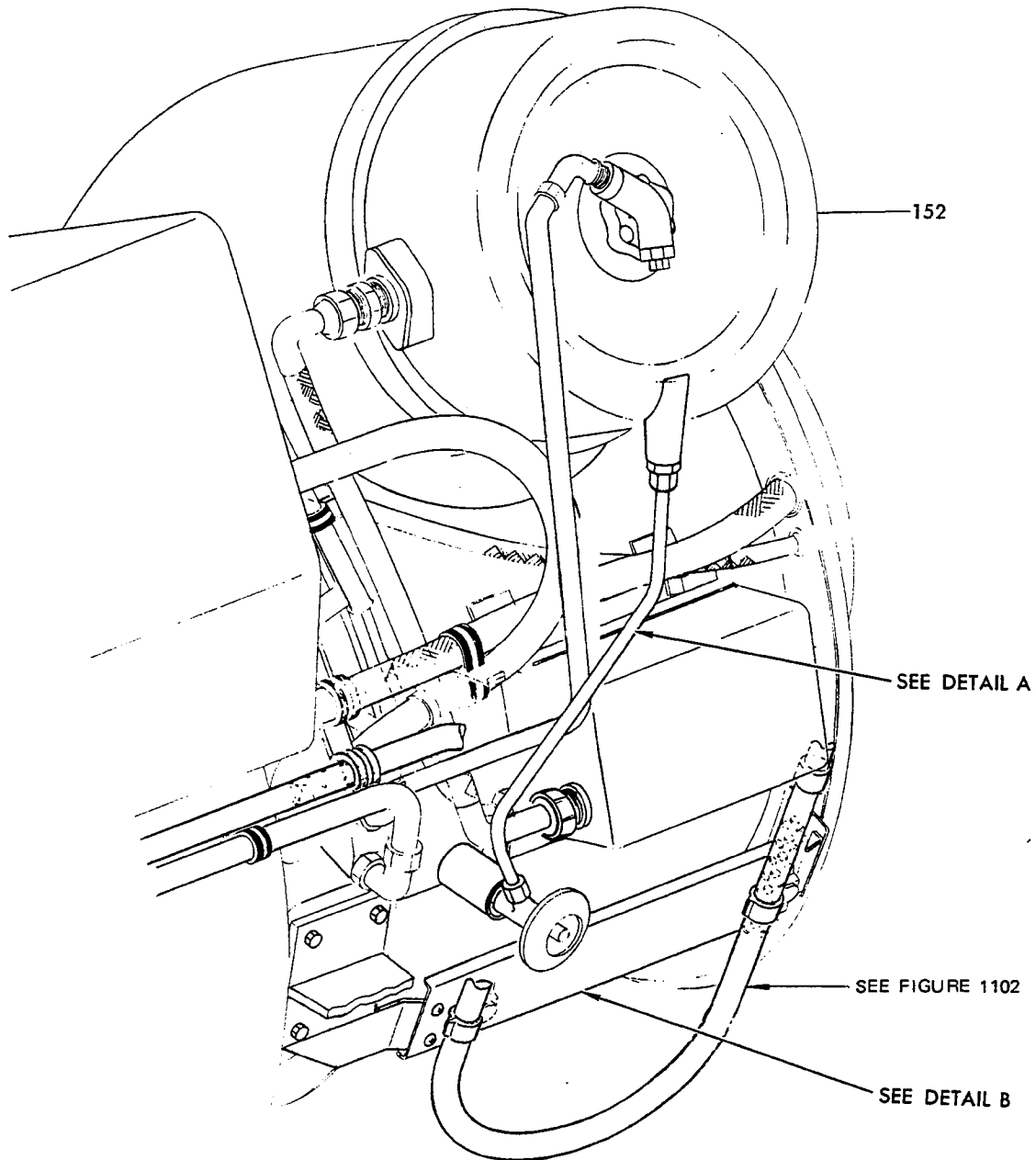


65-50901-XX  
65-88936-XX

Auxiliary Power Unit Assembly  
Figure 1101 (Sheet 1)

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49-10-21  
Page 1101



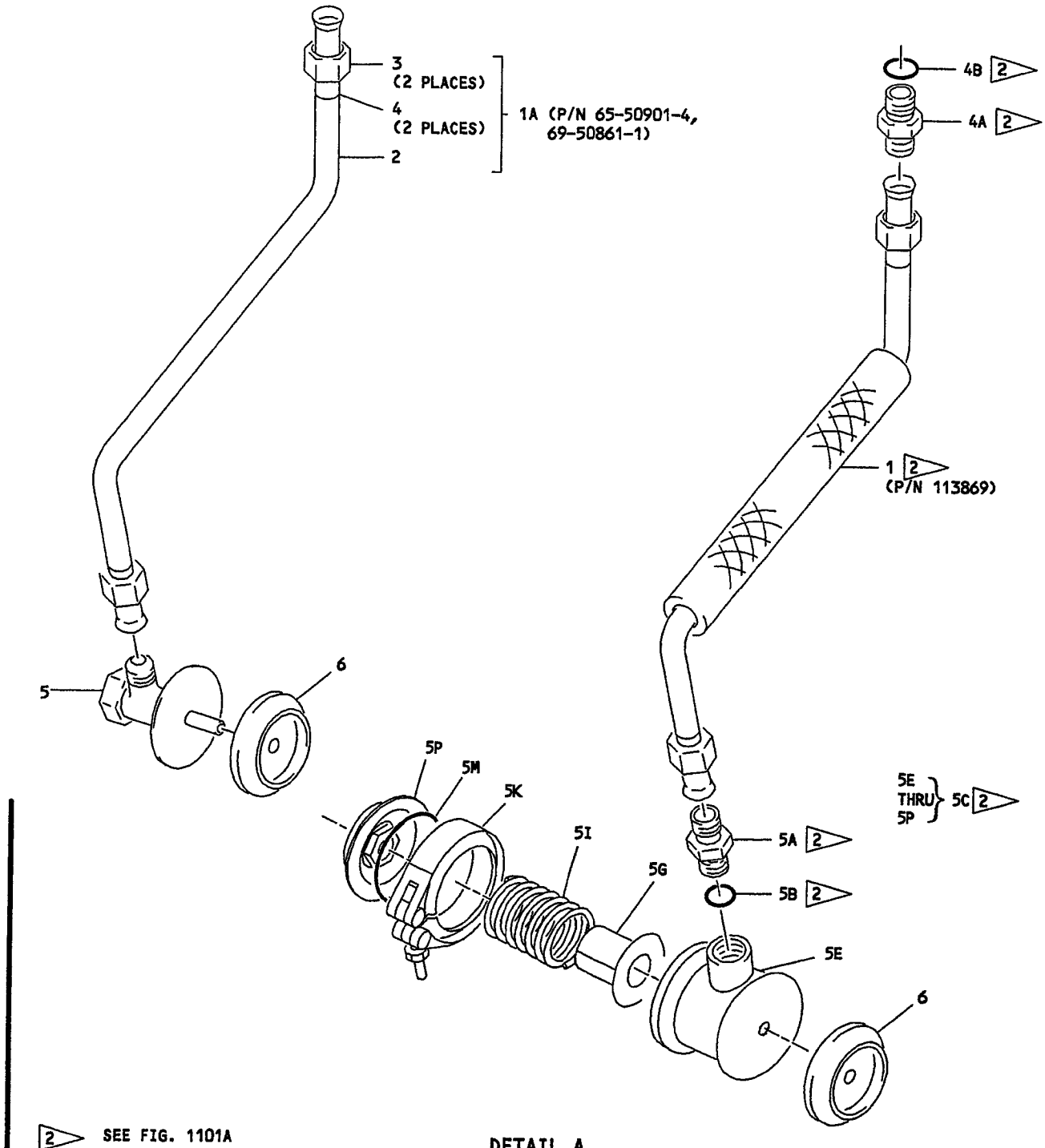
VIEW 1

65-50901-XX  
65-88936-XX

Auxiliary Power Unit Assembly  
Figure 1101 (Sheet 2)

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65-88936  
65C35424  
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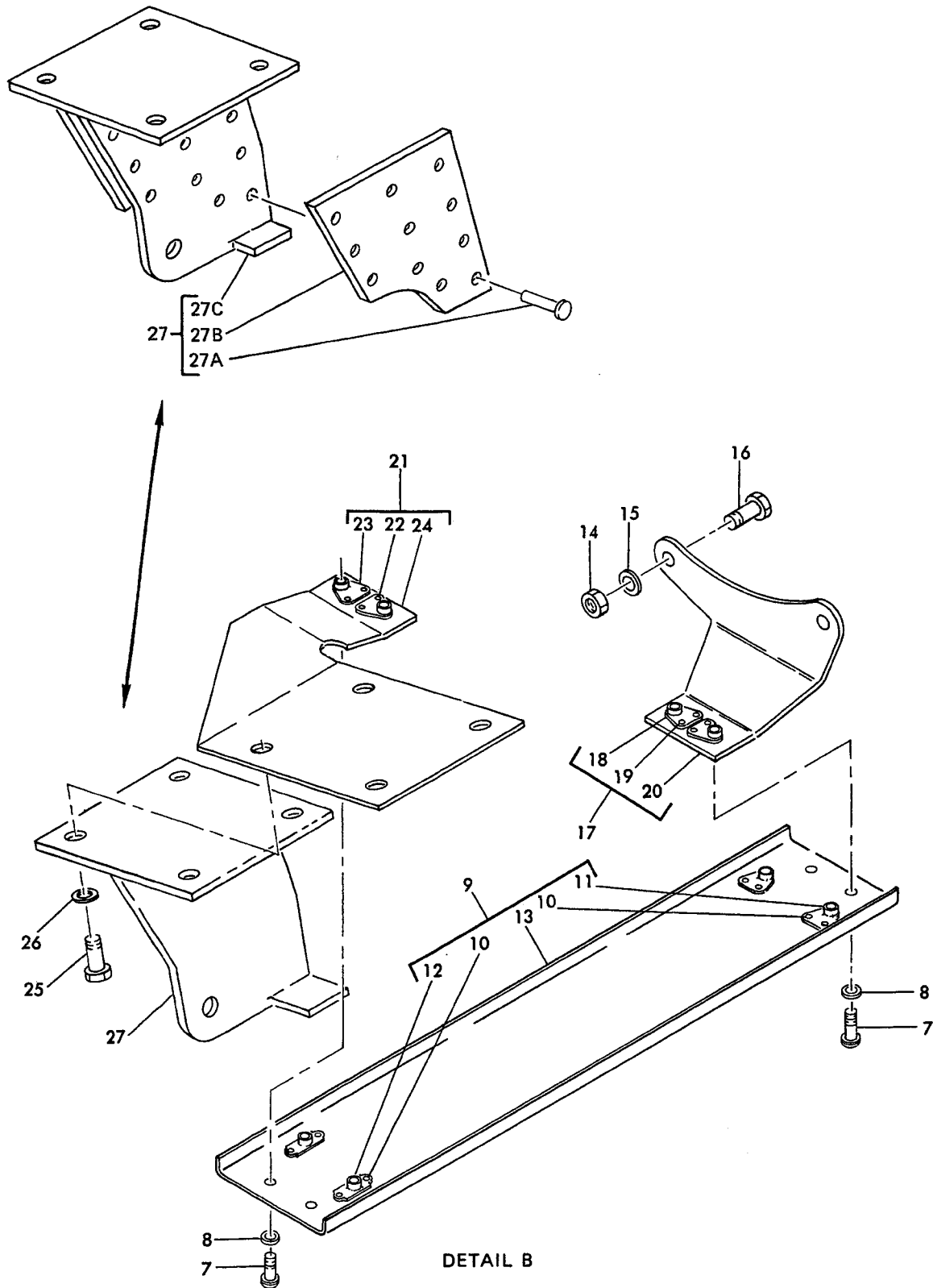
**BOEING**   
**COMMERCIAL JET**  
OVERHAUL MANUAL



**DETAIL A**

65-50901-XX  
65-88936-XX

**Auxiliary Power Unit Assembly  
Figure 1101 (Sheet 3)**



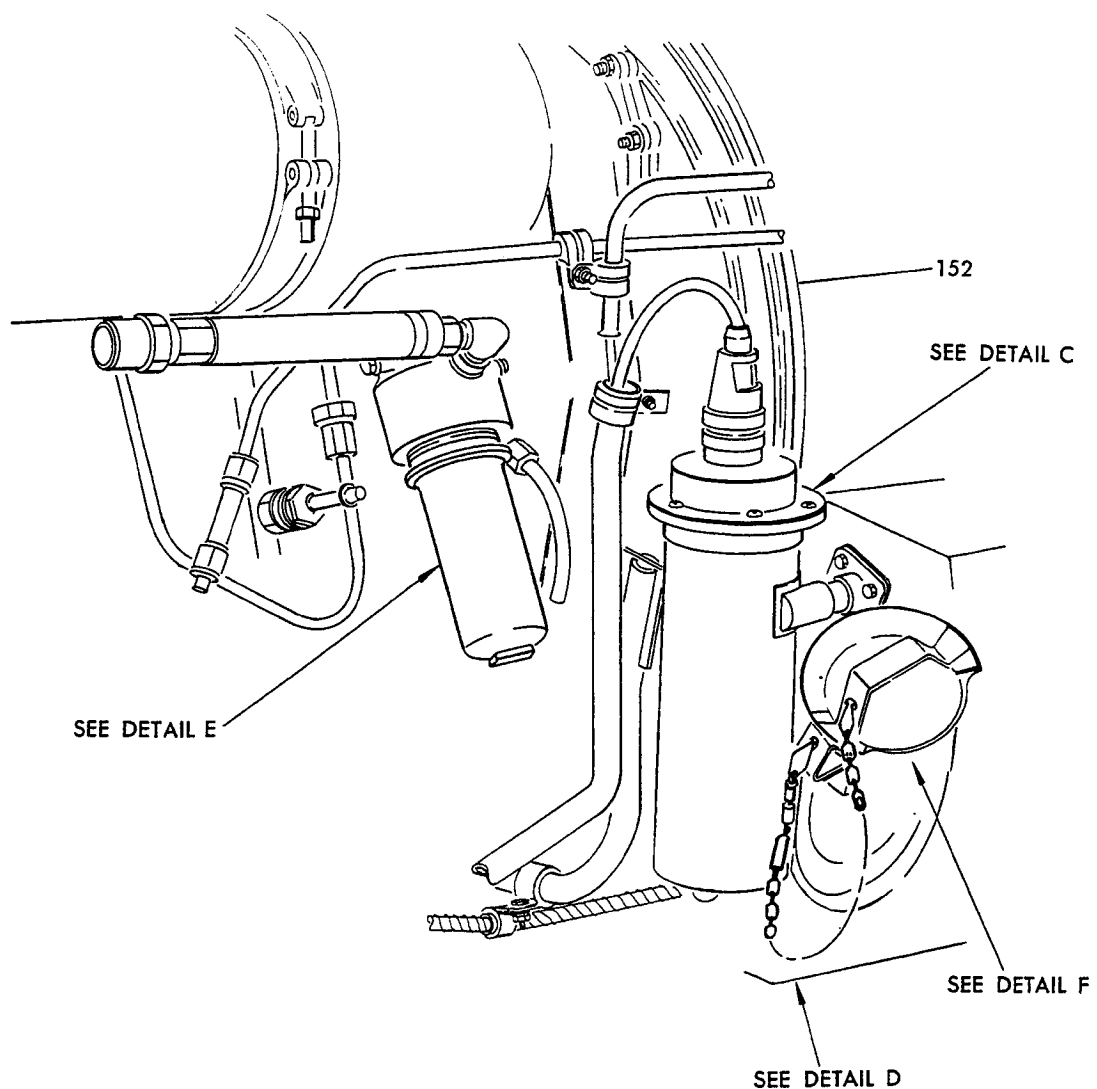
65-50901-XX  
65-88936-XX

Auxiliary Power Unit Assembly  
Figure 1101 (Sheet 4)

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# OVERHAUL MANUAL



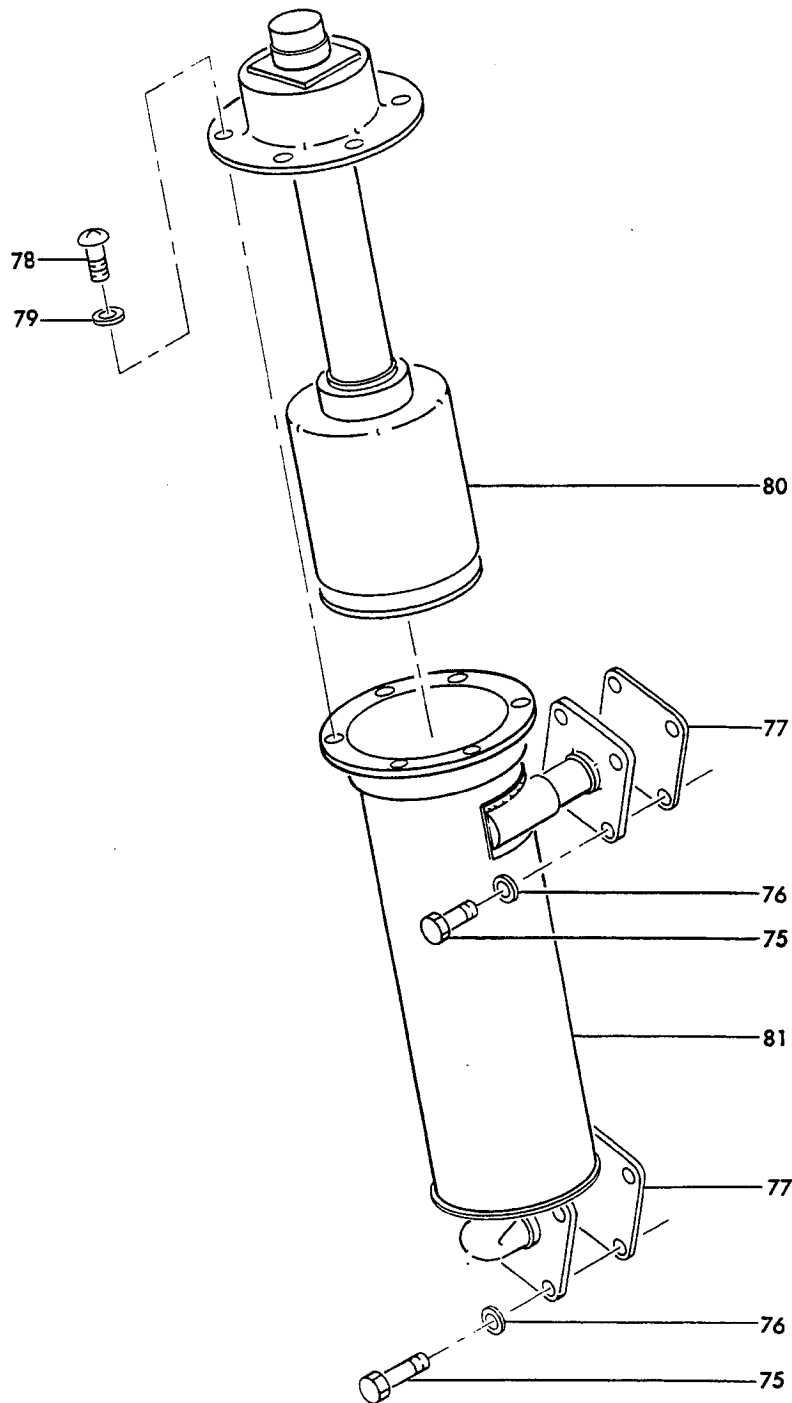
VIEW 2

65-50901-XX  
65-88936-XX

Auxiliary Power Unit Assembly  
Figure 1101 (Sheet 5)

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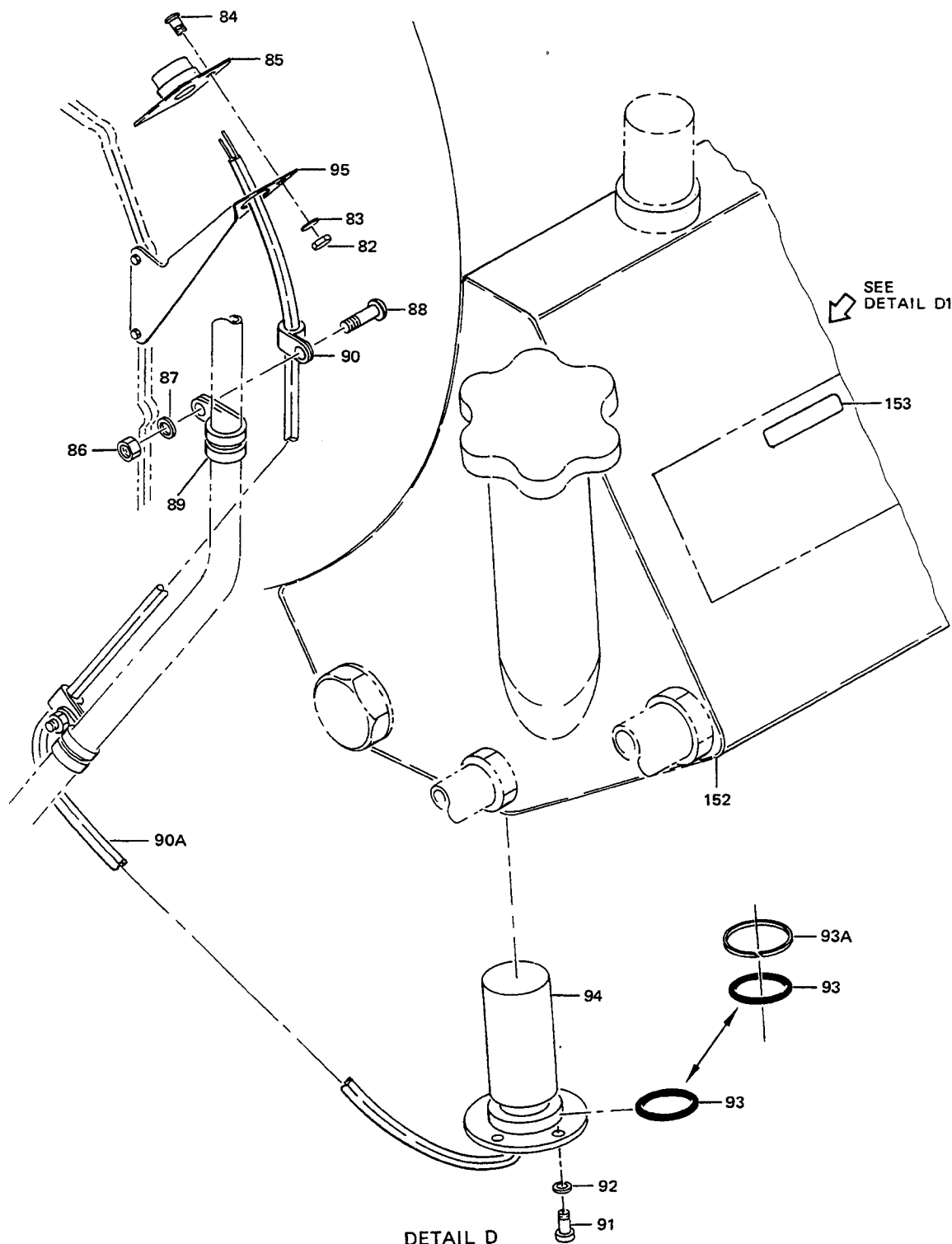
DETAIL C

65-50901-XX  
65-88936-XX

65-50901  
65-88936  
65C35424  
65C35694

**BOEING**   
**COMMERCIAL JET**

# OVERHAUL MANUAL



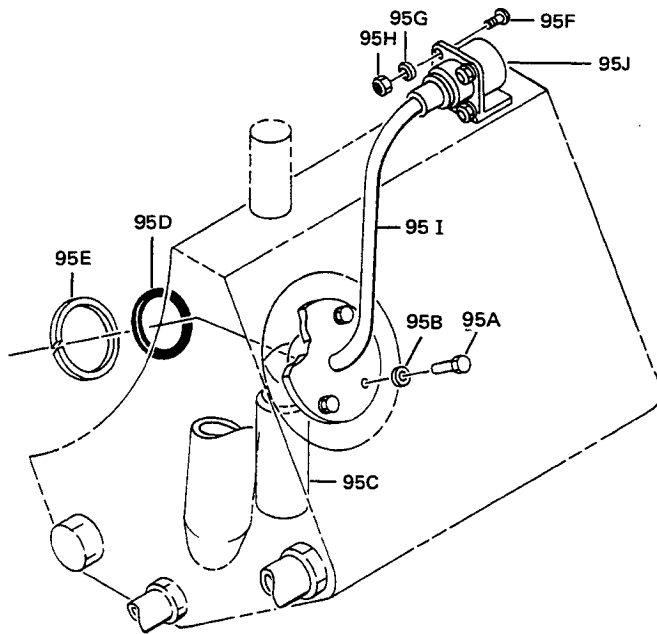
65-50901-XX  
65-88936-XX

Auxiliary Power Unit Assembly  
Figure 1101 (Sheet 7)

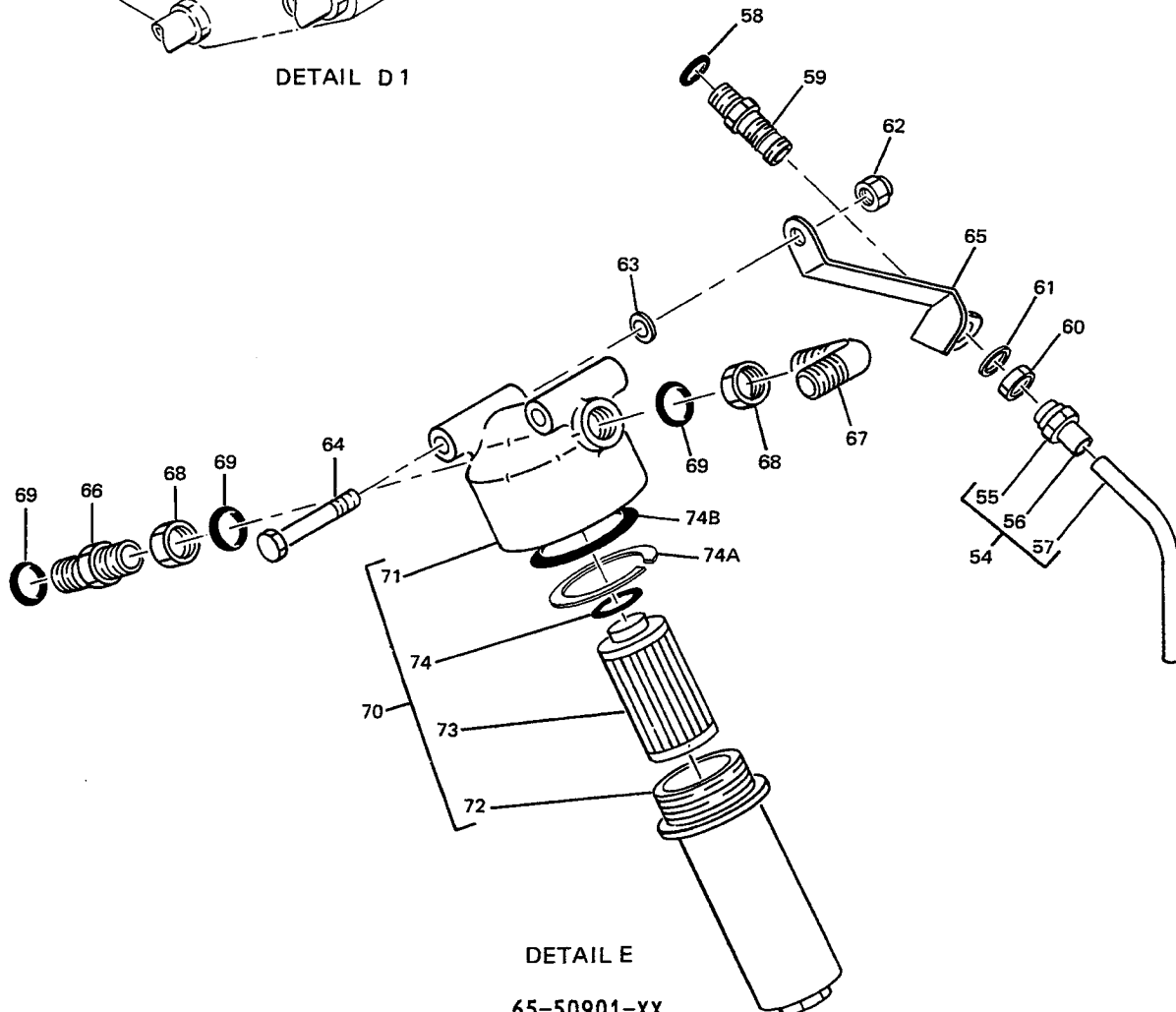
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49-10-21  
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DETAIL D1



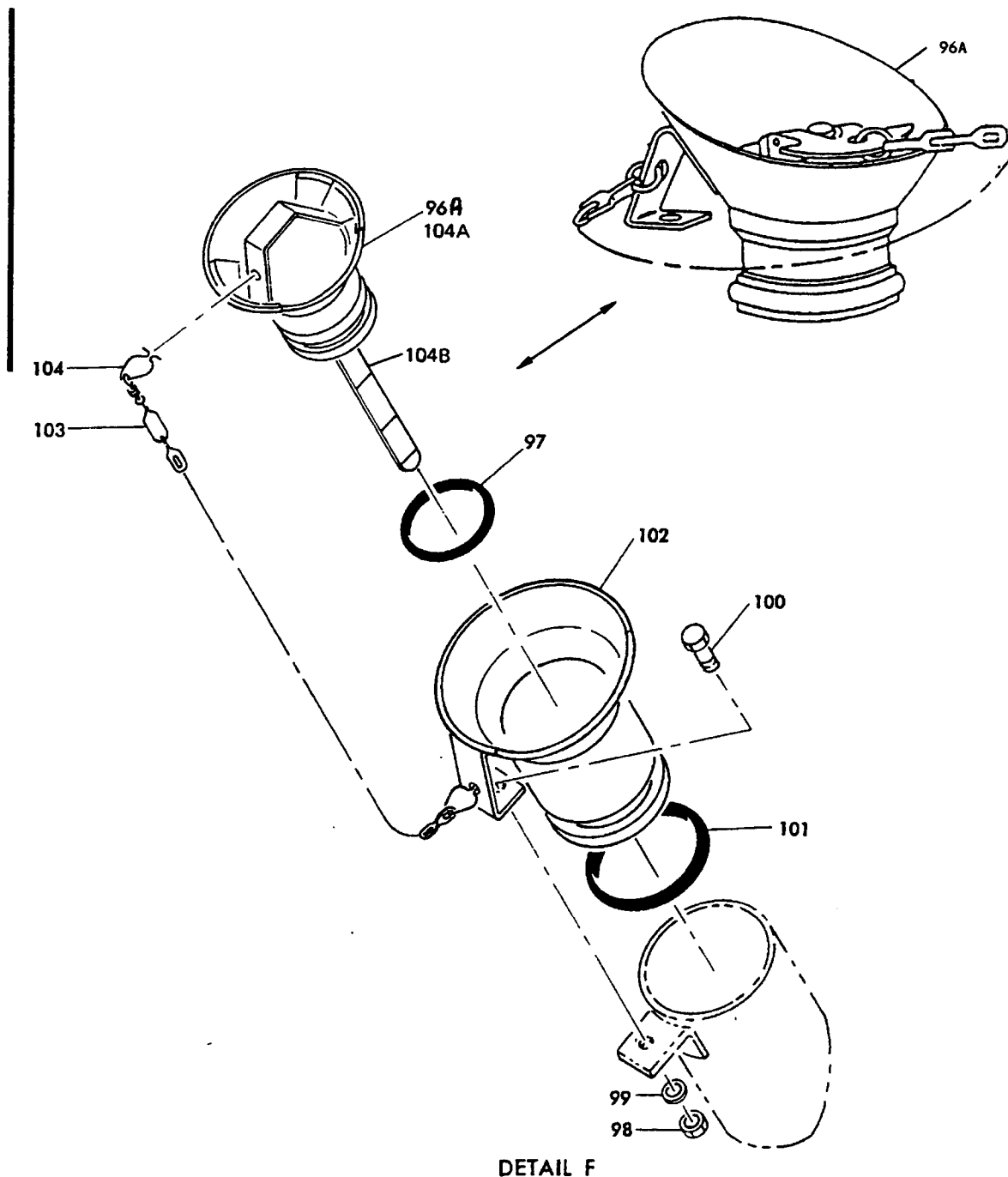
DETAIL E

65-50901-XX  
65-88936-XX

Auxiliary Power Unit Assembly  
Figure 1101 (Sheet 8)

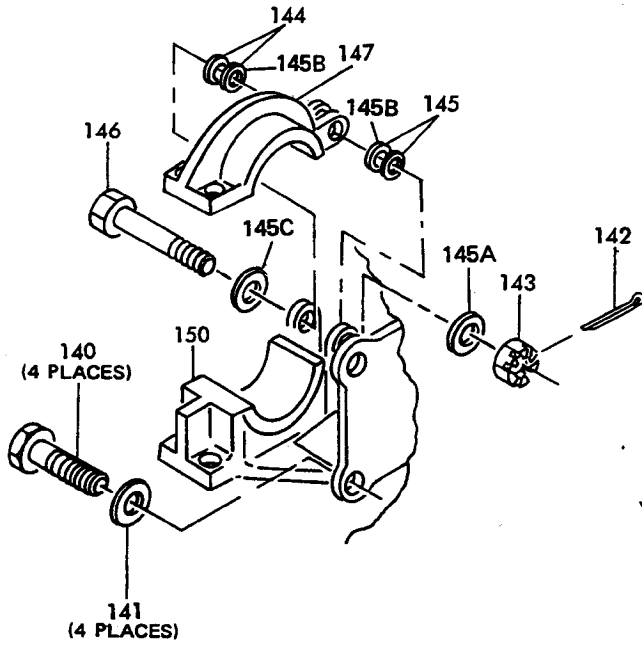
65-50901  
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**BOEING**  
OVERHAUL MANUAL

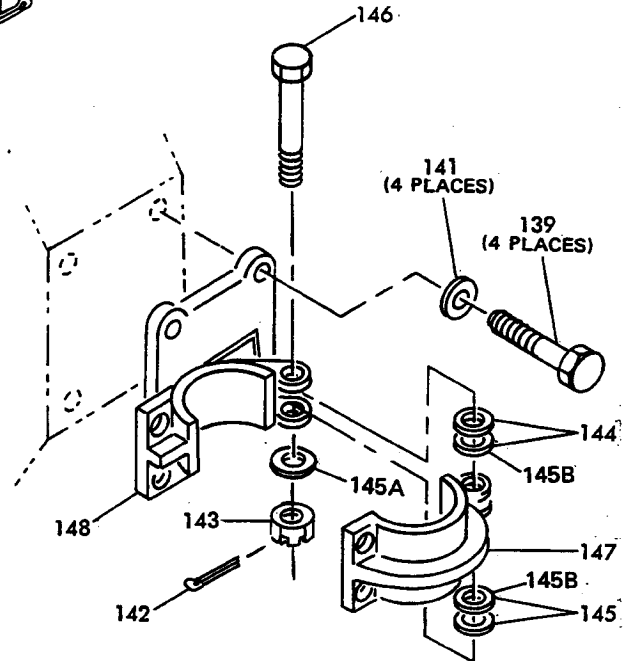


65-50901-XX  
65-88936-XX

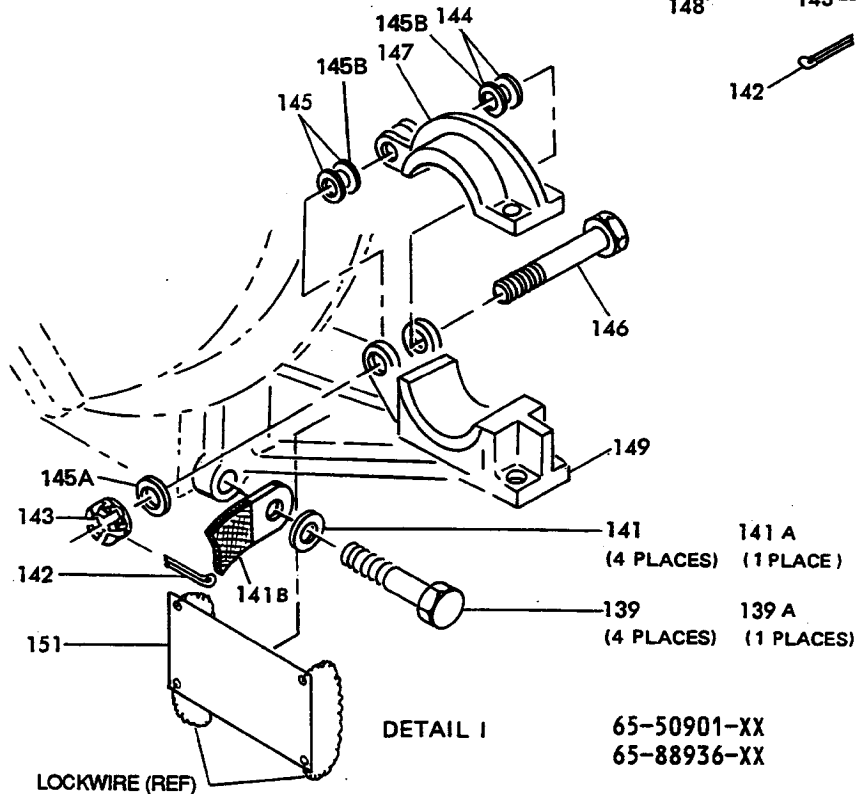
Auxiliary Power Unit Assembly  
Figure 1101 (Sheet 9)



DETAIL H



DETAIL G

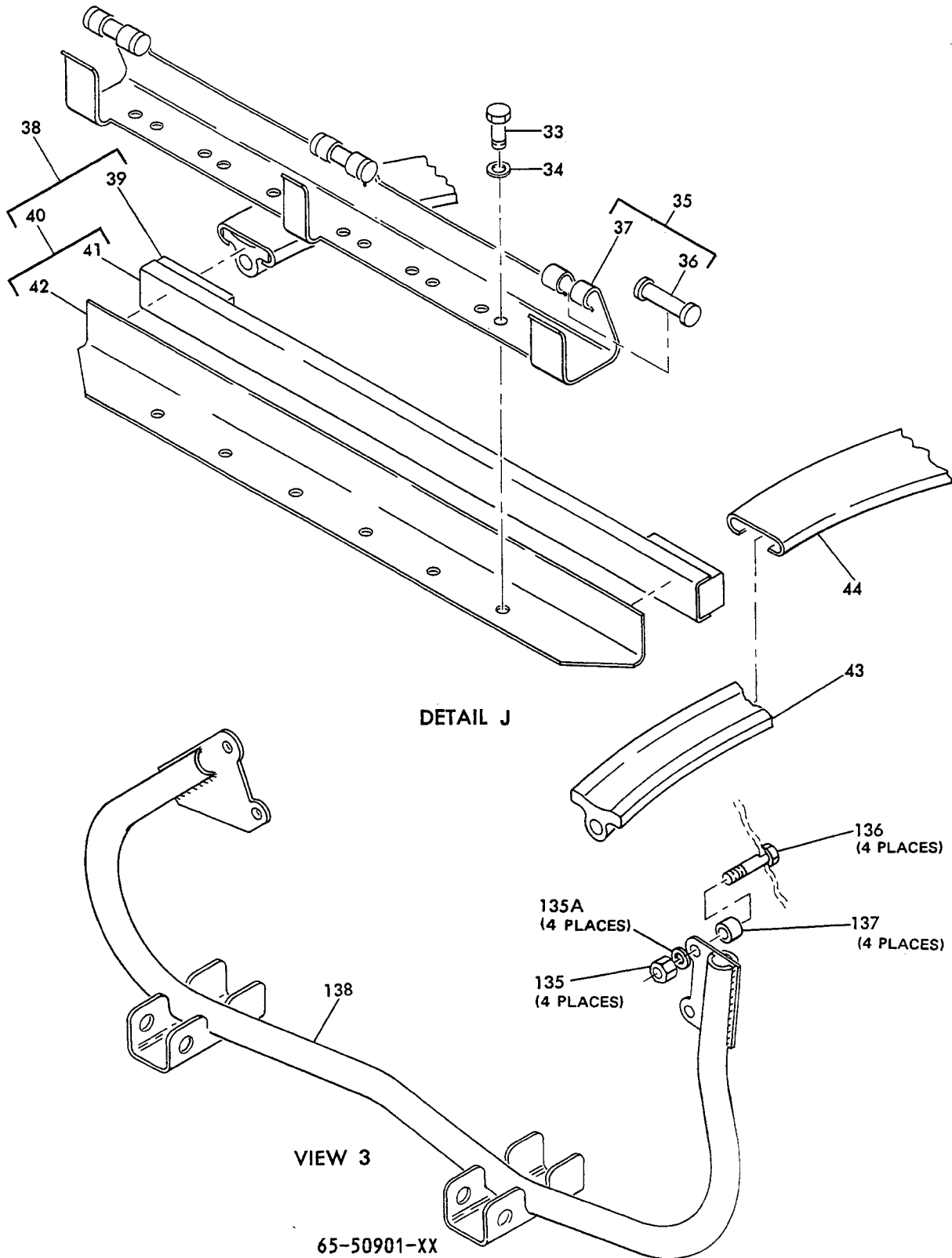


DETAIL I

65-50901-XX  
65-88936-XX

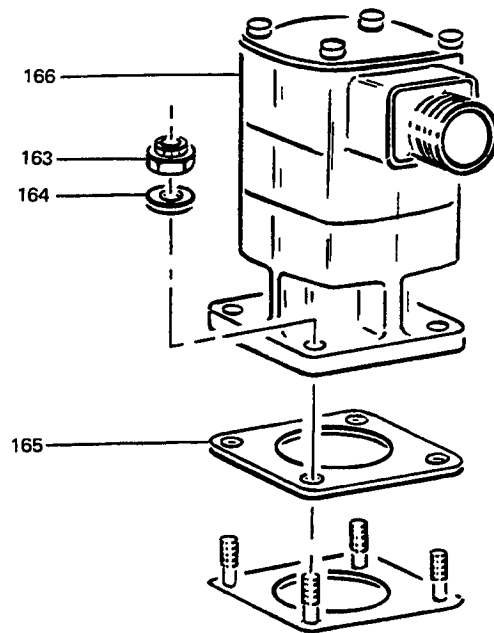
Auxiliary Power Unit Assembly  
Figure 1101 (Sheet 10)

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65C35694



65-50901-XX  
65-88936-XX

Auxiliary Power Unit Assembly  
Figure 1101 (Sheet 11)



DETAIL K

65-50901-XX  
65-88936-XX

**OVERHAUL MANUAL**

| FIG.<br>&<br>ITEM<br>NO. | PART NO.    | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E |       |      |      |      |   |   | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|-------------|---------------------------|-------------------------|-------|------|------|------|---|---|-------------|--------------------|
|                          |             |                           | 1                       | 2     | 3    | 4    | 5    | 6 | 7 |             |                    |
| 1101-                    | 65-50901-1  |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | A           | RF                 |
|                          | 65-50901-5  |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | B           | RF                 |
|                          | 65-50901-6  |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | C           | RF                 |
|                          |             |                           | (SB 49-1009)            |       |      |      |      |   |   |             |                    |
|                          | 65-50901-7  |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | D           | RF                 |
|                          | 65-50901-8  |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | E           | RF                 |
|                          | 65-50901-9  |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | F           | RF                 |
|                          | 65-50901-10 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[2] |   |   |             | RF                 |
|                          | 65-50901-12 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[3] |   |   |             | RF                 |
|                          | 65-50901-13 |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | G           | RF                 |
|                          | 65-50901-15 |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | H           | RF                 |
|                          | 65-50901-16 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[4] |   |   |             | RF                 |
|                          | 65-50901-17 |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | I           | RF                 |
|                          | 65-50901-18 |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | J           | RF                 |
|                          | 65-50901-19 |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | K           | RF                 |
|                          | 65-50901-20 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[5] |   |   |             | RF                 |
|                          | 65-50901-21 |                           | AUXILIARY               | POWER | UNIT | ASSY |      |   |   | L           | RF                 |
|                          | 65-50901-22 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-24 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-26 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-28 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-30 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-32 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-34 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-36 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-38 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-40 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-42 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-44 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-46 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-48 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-50 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-52 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-53 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-54 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-55 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-56 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-57 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-58 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-59 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-60 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-71 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-72 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-73 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-74 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-75 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |
|                          | 65-50901-77 |                           | AUXILIARY               | POWER | UNIT | ASSY | *[7] |   |   |             | RF                 |

| FIG.<br>&<br>ITEM<br>NO. | PART NO.       | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7                         | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|----------------|---------------------------|------------------------------------------------------------------|-------------|--------------------|
| 1101-                    | 65-50901-79    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-50901-81    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-50901-83    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-50901-85    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-50901-87    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-50901-89    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-50901-91    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-50901-95    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-50901-99    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-88936-1     |                           | AUXILIARY POWER UNIT ASSY *[6]                                   |             | RF                 |
|                          | 65-88936-7     |                           | AUXILIARY POWER UNIT ASSY *[6]                                   |             | RF                 |
|                          | 65-88936-8     |                           | AUXILIARY POWER UNIT ASSY *[6]                                   |             | RF                 |
|                          | 65-88936-9     |                           | AUXILIARY POWER UNIT ASSY *[6]                                   |             | RF                 |
|                          | 65-88936-10    |                           | AUXILIARY POWER UNIT ASSY *[6]                                   |             | RF                 |
|                          | 65-88936-11    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-88936-13    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-88936-15    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-88936-16    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-88936-17    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65-88936-18    |                           | AUXILIARY POWER UNIT ASSY *[7]                                   |             | RF                 |
|                          | 65C35424-1     |                           | AUXILIARY POWER UNIT ASSY *[10]                                  |             | RF                 |
|                          | 65C35424-2     |                           | AUXILIARY POWER UNIT ASSY *[10]                                  |             | RF                 |
|                          | 65C35694-1     |                           | AUXILIARY POWER UNIT ASSY *[11]                                  |             | RF                 |
| 1                        | B340C0111C     |                           | . HOSE ASSY, V98441 (BOEING 65-50901-4)                          |             | 1                  |
| 1                        | TR3805CC5-0111 |                           | . HOSE ASSY, V06851 (BOEING 65-50901-4)                          |             | 1                  |
| 1                        | AE1003957F0111 |                           | . HOSE ASSY, V00624 (BOEING 65-50901-4)                          |             | 1                  |
| 1                        | 96576          |                           | . HOSE ASSY, V78570 (BOEING 65-50901-4)                          |             | 1                  |
| 1                        | 69-50861-1     |                           | . TUBE ASSY, ENGINE DRAIN (OPT)                                  |             | 1                  |
| 2                        | 69-50861-2     |                           | . . TUBE (USED ON 69-50861-1)                                    |             | 1                  |
| 3                        | BACN10P5K      |                           | . . NUT (USED ON 69-50861-1)                                     |             | 2                  |
| 4                        | MS20819-5C     |                           | . . SLEEVE (USED ON 69-50861-1)                                  |             | 2                  |
| 5                        | 105-03965-01   |                           | . TEE, V99193                                                    | A           | 1                  |
| 5                        | SK10067        |                           | . TEE, V99193 (OPT)                                              | A           | 1                  |
| 5                        | 105-04111      |                           | . FITTING, V14798                                                | B-FH-L      | 1                  |
| 5                        | 69-56446-2     |                           | . FITTING (MODIFIED FROM 105-03965-01 OR SK10067 PER SB 49-1005) | A           | 1                  |
| 5                        | 69-56446-2     |                           | . FITTING (OPT TO 105-04111)                                     | B-IL        | 1                  |
| 5                        | 69-56446-1     |                           | . FITTING (OPT TO 69-56446-2)                                    | B           | 1                  |
| 6                        | 69-39494-1     |                           | . SEAL, SILICONE RUBBER                                          |             | 1                  |
|                          | 65-66208-1     |                           | . MOUNT INSTL, FIRE DETECTOR                                     |             | 1                  |
| 7                        | NAS623-3-2     |                           | . . SCREW                                                        |             | 4                  |
| 8                        | AN960PD10L     |                           | . . WASHER                                                       |             | 4                  |
| 9                        | 69-50874-1     |                           | . . BRACKET ASSY                                                 |             | 1                  |

| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7               | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|--------------------------------------------------------|-------------|--------------------|
| 1101-                    |              |                           |                                                        |             |                    |
| 10                       | BACR15BA3    |                           | . . . RIVET                                            |             | 8                  |
| 11                       | BACN10KH3    |                           | . . . NUTPLATE                                         |             | 2                  |
| 12                       | BACN10JN3C   |                           | . . . NUTPLATE                                         |             | 2                  |
| 13                       | 69-50874-2   |                           | . . . BRACKET                                          |             | 1                  |
| 14                       | BACN10JC3C   |                           | . . NUT                                                |             | 2                  |
| 15                       | AN960-10L    |                           | . . WASHER                                             |             | 2                  |
| 16                       | NAS1103-3    |                           | . . BOLT                                               |             | 2                  |
| 17                       | 69-50884-3   |                           | . . BRACKET ASSY                                       |             | 1                  |
| 18                       | BACR15BA3    |                           | . . . RIVET                                            |             | 4                  |
| 19                       | BACN10KH3    |                           | . . . NUTPLATE                                         |             | 2                  |
| 20                       | 69-50884-4   |                           | . . . BRACKET                                          |             | 1                  |
| 21                       | 69-50883-1   |                           | . . BRACKET ASSY                                       |             | 1                  |
| 22                       | BACR15BA3    |                           | . . . RIVET                                            |             | 4                  |
| 23                       | BACNOKH3     |                           | . . . NUTPLATE                                         |             | 2                  |
| 24                       | 69-50883-2   |                           | . . . BRACKET                                          |             | 1                  |
| 25                       | BACB30LM6HU4 |                           | . BOLT                                                 |             | 4                  |
| 26                       | AN960C616    |                           | . WASHER                                               |             | 4                  |
| 27                       | 69-50854-1   |                           | . BRACKET                                              | A-K         | 1                  |
| 27                       | 69-50854-2   |                           | . BRACKET ASSY                                         | L           | 1                  |
| 27A                      | BACR15BB5D   |                           | . . RIVET                                              | L           | 11                 |
| 27B                      | 69-50854-4   |                           | . . DOUBLER                                            | L           | 2                  |
| 27C                      | 69-50854-3   |                           | . . BRACKET                                            | L           | 1                  |
| 28                       | BACC10DK-( ) |                           | . CLAMP, WIRE BUNDLE                                   |             | AR                 |
| 29                       | BACN10JC6    |                           | . NUT                                                  |             | 3                  |
| 30                       | AN960-616    |                           | . WASHER                                               |             | 3                  |
| 31                       | NAS1106-3    |                           | . BOLT                                                 |             | 3                  |
| 32                       | 61-30100-( ) |                           | . WIRE BUNDLE ASSY *[00]                               |             | 1                  |
| 33                       | BACB30LJ3U3  |                           | . BOLT                                                 |             | 6                  |
| 34                       | AN960C10     |                           | . WASHER                                               |             | 6                  |
| 35                       | 65-59388-6   |                           | . SPRING ASSY                                          |             | 1                  |
| 35                       | 65-59388-3   |                           | . SPRING ASSY (REPLD BY 65-59388-6)                    |             | 1                  |
| 35                       | 65-59388-1   |                           | . SPRING ASSY (REPLD BY 65-59388-6)                    |             | 1                  |
| 36                       | 69-47583-1   |                           | . . PIN                                                |             | 3                  |
| 37                       | 65-59388-2   |                           | . . SPRING (USED ON 65-59388-1)                        |             | 1                  |
| 37                       | 65-59388-4   |                           | . . SPRING (USED ON 65-59388-3)                        |             | 1                  |
| 37                       | 65-59388-5   |                           | . . SPRING (USED ON 65-59388-3)<br>(OPT TO 65-59388-4) |             | 1                  |
| 37                       | 65-59388-7   |                           | . . SPRING (USED ON 65-59388-6)                        |             | 1                  |
| 38                       | 69-55136-1   |                           | . SEAL ASSY, ENGINE AIR                                |             | 1                  |
| 38                       | 69-55136-4   |                           | . SEAL ASSY, ENGINE AIR (OPT)                          |             | 1                  |
| 39                       | 69-55138-1   |                           | . . SEAL                                               |             | 1                  |
| 40                       | 69-55136-2   |                           | . . RETAINER ASSY (USED ON 69-<br>55136-1)             |             | 1                  |
| 40                       | 69-55136-5   |                           | . . RETAINER ASSY (USED ON 69-<br>55136-4)             |             | 1                  |



| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE<br>1 2 3 4 5 6 7                  | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|------------------------------------------------|-------------|--------------------|
| 1101-                    |              |                           |                                                |             |                    |
| 41                       | 69-55136-3   |                           | . . . RETAINER (USED ON 69-55136-2)            |             | 1                  |
| 41                       | 69-55136-6   |                           | . . . RETAINER (USED ON 69-55136-5)            |             | 1                  |
| 42                       | 69-55139-1   |                           | . . . ANGLE                                    |             | 1                  |
| 43                       | 69-55142-1   |                           | . SEAL, ENGINE AIR                             |             | 2                  |
| 44                       | 69-55135-1   |                           | . TRACK, ENGINE AIR SEAL                       |             | 2                  |
|                          | 65-50993-1   |                           | . BAFFLE INSTL                                 |             | 1                  |
| 45                       | BACB30LJ3U2  |                           | . . BOLT                                       |             | 18                 |
| 46                       | 65-50993-3   |                           | . . RING, RETAINER                             |             | 1                  |
| 47                       | 65-50993-4   |                           | . . SPACER                                     |             | 1                  |
| 48                       | BACB30LJ3U3  |                           | . . BOLT                                       |             | 9                  |
| 49                       | 65-50993-5   |                           | . . STRAP                                      |             | 1                  |
| 50                       | 69-45771-1   |                           | . . SEAL (OPT CEP4571A)                        |             | 1                  |
| 50                       | CEP4571A     |                           | . . SEAL (V92798) (OPT 69-45771-1)             |             | 1                  |
| 51                       | MS20427M3    |                           | . . RIVET                                      |             | 18                 |
| 52                       | BACN10JP3DC  |                           | . . NUTPLATE                                   |             | 9                  |
| 53                       | 65-50993-2   |                           | . . RING, SEAL                                 |             | 1                  |
|                          | 65-66216-1   |                           | . FILTER INSTL, FUEL                           |             | 1                  |
| 54                       | 65-66216-2   |                           | . . TUBE ASSY                                  |             | 1                  |
| 55                       | MS21921-4K   |                           | . . . NUT                                      |             | 1                  |
| 56                       | BACS13AP4C   |                           | . . . SLEEVE                                   |             | 1                  |
| 57                       | 65-66216-3   |                           | . . . TUBE                                     |             | 1                  |
| 58                       | MS29512-04   |                           | . . PACKING, O-RING                            |             | 1                  |
| 59                       | MS21924-4J   |                           | . . FITTING                                    |             | 1                  |
| 60                       | AN924-4C     |                           | . . NUT                                        |             | 1                  |
| 61                       | AN960C716    |                           | . . WASHER                                     |             | 1                  |
| 62                       | NAS679C4W    |                           | . . NUT                                        |             | 1                  |
| 63                       | AN960-416L   |                           | . . WASHER                                     |             | AR                 |
| 64                       | NAS1104-26   |                           | . . BOLT                                       |             | 1                  |
| 65                       | 69-50890-4   |                           | . . BRACKET                                    |             | 1                  |
| 66                       | MS21923-6C   |                           | . . FITTING                                    |             | 1                  |
| 67                       | MS21926-6C   |                           | . . ELBOW                                      |             | 1                  |
| 68                       | AN924-6C     |                           | . . NUT                                        |             | 2                  |
| 69                       | MS29512-06   |                           | . . O-RING                                     |             | 3                  |
| 70                       | 1732945-01   |                           | . . FILTER ASSY, V90005 (BOEING<br>10-61801-1) |             | 1                  |
| 71                       | 572762-02    |                           | . . . HEAD (RPLS 28641A)                       |             | 1                  |
| 71                       | 28641A       |                           | . . . HEAD (RPLD BY 572762-02)                 |             | 1                  |
| 72                       | 572717-01    |                           | . . . BOWL                                     |             | 1                  |
| 73                       | 038062       |                           | . . . ELEMENT                                  |             | 1                  |
| 74                       | 7516         |                           | . . . O-RING                                   |             | 1                  |
|                          | 65-62588-1   |                           | . INDICATOR INSTL, OIL LEVEL                   | AB          | 1                  |
|                          | 65-62588-2   |                           | . SWITCH INSTL, OIL LEVEL                      | C-L         | 1                  |
| 74A                      | 910786       |                           | . . . BACK-UP RING                             |             | 1                  |
| 74B                      | 7514         |                           | . . . PACKING, O-RING                          |             | 1                  |
| 75                       | BACB30LM3HU4 |                           | . . BOLT                                       | AB          | 8                  |

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| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE |   |                                    |   |   |   |   | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|--------------|---|------------------------------------|---|---|---|---|-------------|--------------------|
|                          |               |                           | 1            | 2 | 3                                  | 4 | 5 | 6 | 7 |             |                    |
| 1101-76                  | AN960C10L     |                           | .            | . | WASHER                             |   |   |   |   | AB          | 8                  |
| 77                       | 69-47596-1    |                           | .            | . | GASKET                             |   |   |   |   | AB          | 2                  |
| 78                       | NAS623-2-2    |                           | .            | . | SCREW                              |   |   |   |   | AB          | 6                  |
| 79                       | MS35338-80    |                           | .            | . | LOCKWASHER                         |   |   |   |   | AB          | 6                  |
| 80                       | 86782-2       |                           | .            | . | TRANSMITTER, OIL LEVEL, V89305     |   |   |   |   | AB          | 1                  |
|                          |               |                           |              |   | *[00]                              |   |   |   |   |             |                    |
| 80                       | 86782-1       |                           | .            | . | TRANSMITTER, OIL LEVEL, V89305     |   |   |   |   | AB          | 1                  |
|                          |               |                           |              |   | *[00]                              |   |   |   |   |             |                    |
| 81                       | 65-50945-1    |                           | .            | . | STILLWELL ASSY                     |   |   |   |   | AB          | 1                  |
| 82                       | BACN10JC04    |                           | .            | . | NUT                                |   |   |   |   | C-L         | 4                  |
| 83                       | AN960-4L      |                           | .            | . | WASHER                             |   |   |   |   | C-L         | 4                  |
| 84                       | NAS600-8P     |                           | .            | . | SCREW                              |   |   |   |   | C-L         | 4                  |
| 85                       | MS24264R14B7P |                           | .            | . | RECEPTACLE *[12]                   |   |   |   |   | C-L         | 1                  |
| 86                       | BACN10JC3     |                           | .            | . | NUT                                |   |   |   |   | C-L         | 2                  |
| 87                       | AN960C10      |                           | .            | . | WASHER                             |   |   |   |   | C-L         | 2                  |
| 88                       | NAS603-8P     |                           | .            | . | SCREW                              |   |   |   |   | C-L         | 2                  |
| 89                       | BACC10DN10    |                           | .            | . | CLAMP (REPLD BY BACC10GE10)        |   |   |   |   | CL-         | 2                  |
| 89                       | BACC10GE10    |                           | .            | . | CLAMP (REPLED BACC10GE12)          |   |   |   |   | C-L         | 2                  |
| 89                       | BACC10GE12    |                           | .            | . | CLAMP (REPLS BACC10GE10)           |   |   |   |   | C-L         | 2                  |
| 90                       | BACC10DN4     |                           | .            | . | CLAMP (REPLD BY BACC10GE4)         |   |   |   |   | C-L         | 2                  |
| 90                       | BACC10GE4     |                           | .            | . | CLAMP (REPLS BACC10DN4)            |   |   |   |   | C-L         | 2                  |
| 90A                      | S9046-5-9     |                           | .            | . | SLEEVE (V81851) *[12]              |   |   |   |   | C-L         | 1                  |
| 91                       | MS24673-2     |                           | .            | . | SCREW                              |   |   |   |   | C-L         | 4                  |
| 92                       | MS35338-138   |                           | .            | . | WASHER                             |   |   |   |   | C-L         | 4                  |
| 93                       | BACP11P325    |                           | .            | . | O-RING (SUPSD BY M83248/1-222)     |   |   |   |   | C-L         | 1                  |
| 93                       | M83248/1-222  |                           | .            | . | O-RING (SUPSDS BACP11P325)         |   |   |   |   | C-L         | 1                  |
|                          |               |                           |              |   | (SB 49-1044) *[00]                 |   |   |   |   |             |                    |
| 93                       | S9413-222     |                           | .            | . | O-RING (OPT TO M83248/1-222) *[00] |   |   |   |   | C-L         | 1                  |
| 93A                      | 69-69875-1    |                           | .            | . | RING, BACKUP (USED WITH            |   |   |   |   | C-L         |                    |
|                          |               |                           |              |   | M83248/1-222) (SB 49-1044) *[00]   |   |   |   |   |             |                    |
| 94                       | 274832-00     |                           | .            | . | FLOAT SWITCH, V50625 *[12]*[13]    |   |   |   |   | C-L         | 1                  |
| 94                       | F74832        |                           | .            | . | FLOAT SWITCH, V50625 (OPT TO       |   |   |   |   | C-L         | 1                  |
|                          |               |                           |              |   | 274832-00) *[12]*[13]              |   |   |   |   |             |                    |
| 94                       | 274832-02     |                           | .            | . | FLOAT SWITCH ASSY., V50625         |   |   |   |   | C-L         | 1                  |
|                          |               |                           |              |   | *[12]*[13]                         |   |   |   |   |             |                    |
| 94                       | F74832-2      |                           | .            | . | FLOAT SWITCH ASSY., V50625 (OPT    |   |   |   |   | C-L         | 1                  |
|                          |               |                           |              |   | TO 274832-02) *[12]*[13]           |   |   |   |   |             |                    |
| 95                       | 65-62588-3    |                           | .            | . | BRACKET                            |   |   |   |   | C-L         | 1                  |
|                          | 69-47582-3    |                           | .            | . | CAP INSTL, OIL TANK                |   |   |   |   | B-HJL       | 1                  |
|                          | 69-47582-2    |                           | .            | . | CAP INSTL, OIL TANK (OPT)          |   |   |   |   | B-F         | 1                  |
|                          | 69-47582-1    |                           | .            | . | CAP INSTL, OIL TANK (OPT)          |   |   |   |   | B           | 1                  |
|                          | 69-47582-1    |                           | .            | . | CAP INSTL, OIL TANK                |   |   |   |   | A           | 1                  |
| 96                       | 65-59392-6    |                           | .            | . | CAP ASSY (USED ON 69-47582-1)      |   |   |   |   |             | 1                  |
|                          |               |                           |              |   | (DELETED BY SB 49-1007)            |   |   |   |   |             |                    |
| 96                       | 417-339       |                           | .            | . | CAP ASSY, V99321 (USED ON          |   |   |   |   |             | 1                  |
|                          |               |                           |              |   | 69-47582-2)                        |   |   |   |   |             |                    |

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| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE |   |                                 |   |   |   |   | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|--------------|---|---------------------------------|---|---|---|---|-------------|--------------------|
|                          |              |                           | 1            | 2 | 3                               | 4 | 5 | 6 | 7 |             |                    |
| 1101-96                  | 417-339      |                           | .            | . | CAP ASSY, V99321 (ADDED TO      |   |   |   |   | A-B         | 1                  |
|                          |              |                           |              |   | 69-47582-1 BY SB 49-1007)       |   |   |   |   |             |                    |
| 96                       | 417-584      |                           | .            | . | CAP ASSY, V99321 (USED ON 69-   |   |   |   |   |             | 1                  |
|                          |              |                           |              |   | 47582-3)                        |   |   |   |   |             |                    |
| 97                       | MS9021-325   |                           | .            | . | . PACKING, O-RING (USED ON 65-  |   |   |   |   |             | 1                  |
|                          |              |                           |              |   | 59392-6)                        |   |   |   |   |             |                    |
| 98                       | BACN10JC3    |                           | .            | . | NUT                             |   |   |   |   |             | 1                  |
| 99                       | AN960C10L    |                           | .            | . | WASHER                          |   |   |   |   |             | 1                  |
| 100                      | NAS103-1     |                           | .            | . | BOLT                            |   |   |   |   |             | 1                  |
| 101                      | BACG10T28    |                           | .            | . | O-RING (OPT PARTS               |   |   |   |   |             | 1                  |
|                          |              |                           |              |   | BACP11P-325 AND MS9021-325)     |   |   |   |   |             |                    |
|                          |              |                           |              |   | (USED ON 69-47582-1)(DELETED    |   |   |   |   |             |                    |
|                          |              |                           |              |   | BY SB 49-1007)                  |   |   |   |   |             |                    |
| 102                      | 69-50869-4   |                           | .            | . | FUNNEL ASSY (USED ON 69-47582   |   |   |   |   |             | 1                  |
|                          |              |                           |              |   | 1)(DELETED BY SB 49-1007)       |   |   |   |   |             |                    |
| 103                      | BACC19B7-90  |                           | .            | . | CHAIN ASSY (USED ON 69-47582-1) |   |   |   |   |             | 1                  |
|                          |              |                           |              |   | (DELETED BY SB 49-1007)         |   |   |   |   |             |                    |
| 104                      | NAS1090-2    |                           | .            | . | LINK (USED ON 69-47582-1)       |   |   |   |   |             | 2                  |
|                          |              |                           |              |   | (REPLS BACC19B2)(DELETED BY     |   |   |   |   |             |                    |
|                          |              |                           |              |   | SB 49-1007)                     |   |   |   |   |             |                    |
| 104A                     | 69-68119-1   |                           | .            | . | OIL DIPSTICK ASSY               |   |   |   |   | IK          | 1                  |
| 104B                     | 69-68119-2   |                           | .            | . | . DIPSTICK                      |   |   |   |   |             | 1                  |
| 104C                     | 417-585      |                           | .            | . | . OIL DIPSTICK ASSY             |   |   |   |   |             | 1                  |
|                          | 65-50991-1   |                           | .            | . | GENERATOR INSTL                 |   |   |   |   |             | 1                  |
| 105                      | *[1]         |                           | .            | . | CLAMP                           |   |   |   |   |             | 2                  |
| 106                      | 624AG5HD     |                           | .            | . | NUT, V82831                     |   |   |   |   |             | 12                 |
| 107                      | 65-50991-2   |                           | .            | . | GENERATOR ASSY                  |   |   |   |   |             | 1                  |
| 108                      | BACB30LM4U11 |                           | .            | . | . BOLT                          |   |   |   |   |             | 1                  |
| 109                      | *[1]         |                           | .            | . | . DUCT                          |   |   |   |   |             | 1                  |
| 110                      | BACB30LM3U7  |                           | .            | . | . BOLT                          |   |   |   |   |             | 3                  |
| 111                      | AN960-416L   |                           | .            | . | . WASHER                        |   |   |   |   |             | 4                  |
| 112                      | 941D339-1    |                           | .            | . | . TRANSFORMER, V83843 (BOEING   |   |   |   |   |             | 1                  |
|                          |              |                           |              |   | 10-61224-5)                     |   |   |   |   |             |                    |
| 113                      | BACB30LM4U11 |                           | .            | . | . BOLT                          |   |   |   |   |             | 1                  |
| 114                      | BACB30LM4U6  |                           | .            | . | . BOLT                          |   |   |   |   |             | 1                  |
| 115                      | AN960PD416   |                           | .            | . | . WASHER                        |   |   |   |   |             | 2                  |
| 116                      | 69-37926-1   |                           | .            | . | . MOUNT ASSY                    |   |   |   |   |             | 1                  |
| 116                      | 69-37926-2   |                           | .            | . | . MOUNT ASSY (OPT)              |   |   |   |   |             | 1                  |
| 117                      | BACR15BB5    |                           | .            | . | . RIVET                         |   |   |   |   |             | 3                  |
| 118                      | BACR15BA3    |                           | .            | . | . RIVET                         |   |   |   |   |             | 8                  |
| 119                      | BACR15BA4    |                           | .            | . | . RIVET                         |   |   |   |   |             | 2                  |
| 120                      | BACR15BB5    |                           | .            | . | . RIVET (USED ON 69-37926-2)    |   |   |   |   |             | 1                  |
| 120                      | BACR15BA5    |                           | .            | . | . RIVET (OPT ON 69-37926-2)     |   |   |   |   |             | 1                  |
| 121                      | AN960D8L     |                           | .            | . | . WASHER (USE WITH BACR15BA5    |   |   |   |   |             | 1                  |
|                          |              |                           |              |   | ON 69-37926-2)                  |   |   |   |   |             |                    |

65-50901 65C35424  
65-88936 65C35694



| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE |   |   |   |                                                |   |     | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|--------------|---|---|---|------------------------------------------------|---|-----|-------------|--------------------|
|                          |               |                           | 1            | 2 | 3 | 4 | 5                                              | 6 | 7   |             |                    |
| 1101-121                 | AN960D8L      |                           | .            | . | . | . | WASHER (USE WITH BACR15BB5<br>ON 69-37926-2)   |   |     |             | 2                  |
| 122                      | BACN10JP4A    |                           | .            | . | . | . | NUTPLATE                                       |   |     |             | 2                  |
| 123                      | BACN10LGE35   |                           | .            | . | . | . | NUTPLATE                                       |   |     |             | 1                  |
| 124                      | BACN10MK3X45  |                           | .            | . | . | . | NUTPLATE                                       |   |     |             | 1                  |
| 125                      | BACN10KH3     |                           | .            | . | . | . | NUTPLATE                                       |   |     |             | 1                  |
| 126                      | 69-45785-1    |                           | .            | . | . | . | BUSS BAR                                       |   |     |             | 1                  |
| 127                      | 69-45784-1    |                           | .            | . | . | . | BRACKET (USED ON 69-37926-1)                   |   |     |             | 1                  |
| 127                      | 69-45784-2    |                           | .            | . | . | . | BRACKET (USED ON 69-37926-2)                   |   |     |             | 1                  |
| 128                      | 69-45786-1    |                           | .            | . | . | . | ZEE (USED ON 69-37926-1)                       |   |     |             | 1                  |
| 128                      | 69-45786-2    |                           | .            | . | . | . | ZEE (USED ON 69-37926-2)                       |   |     |             | 1                  |
| 129                      | BACB30LU3-1   |                           | .            | . | . | . | SCREW                                          |   |     |             | 6                  |
| 130                      | 65-50964-1    |                           | .            | . | . | . | BRACKET ASSY                                   |   |     |             | 1                  |
| 131                      | BACR15BA3     |                           | .            | . | . | . | RIVET                                          |   |     |             | 2                  |
| 132                      | BACN10JN4C    |                           | .            | . | . | . | NUTPLATE                                       |   |     |             | 1                  |
| 133                      | 65-50964-2    |                           | .            | . | . | . | BRACKET                                        |   |     |             | 1                  |
| 134                      | 976J449-1     |                           | .            | . | . | . | GENERATOR, V83843 (BOEING<br>10-61224-2)       |   |     |             | 1                  |
| 134                      | 976J598-1     |                           | .            | . | . | . | GENERATOR, V83843 (BOEING<br>10-61224-10)(OPT) |   |     |             | 1                  |
| 134A                     | 69-64914-1    |                           | .            | . | . | . | SCREEN                                         |   | G-L |             | 1                  |
| 135                      | MS21045-3     |                           | .            | . | . | . | NUT                                            |   |     |             | 4                  |
| 135A                     | AN960-10L     |                           | .            | . | . | . | WASHER                                         |   |     |             | 4                  |
| 136                      | BACB30NE3-12  |                           | .            | . | . | . | BOLT (SUPERSEDED BY BACB30NE3-14)              |   |     |             | 4                  |
| 136                      | BACB30NE3-14  |                           | .            | . | . | . | BOLT (SUPERSEDES BACB30NE3-12)                 |   |     |             | 4                  |
| 137                      | S8157N1-220   |                           | .            | . | . | . | SPACER, V99193                                 |   |     |             | 4                  |
| 138                      | 65-62580-1    |                           | .            | . | . | . | STAND ASSY                                     |   | A-K |             | 1                  |
| 138                      | 65-62580-2    |                           | .            | . | . | . | STAND ASSY                                     |   | L   |             | 1                  |
| -138J                    | 65-50902-1    |                           | .            | . | . | . | MOUNT INSTL                                    |   | A-D |             | 1                  |
| -138J                    | 65-50902-2    |                           | .            | . | . | . | MOUNT INSTL                                    |   | E-I |             | 1                  |
| -138J                    | 65-50902-3    |                           | .            | . | . | . | MOUNT INSTL                                    |   | JKL |             | 1                  |
| 139                      | BACB30LM6HU6  |                           | .            | . | . | . | BOLT                                           |   | A-D |             | 8                  |
| 139                      | BACB30LM6HU6  |                           | .            | . | . | . | BOLT                                           |   | E-L |             | 7                  |
| 139A                     | BACB30LM6HU8  |                           | .            | . | . | . | BOLT                                           |   | E-L |             | 1                  |
| 139A                     | BACB30LM6HU8  |                           | .            | . | . | . | BOLT (ADDED BY SB 49-1018)                     |   | A-D |             | 1                  |
| 140                      | BACB30LM6HU4  |                           | .            | . | . | . | BOLT                                           |   |     |             | 4                  |
| 141                      | AN960C616     |                           | .            | . | . | . | WASHER                                         |   | A-D |             | 12                 |
| 141                      | AN960C616     |                           | .            | . | . | . | WASHER                                         |   | E-L |             | 11                 |
| 141A                     | BACW10BP6APU  |                           | .            | . | . | . | WASHER                                         |   | E-L |             | 1                  |
| 141A                     | BACW10BP6APU  |                           | .            | . | . | . | WASHER (ADDED BY SB 49-1018)                   |   | A-D |             | 1                  |
| 141B                     | BACJ40E40-40  |                           | .            | . | . | . | JUMPER                                         |   |     |             | 1                  |
| 141B                     | BACJ40E40-40  |                           | .            | . | . | . | JUMPER (ADDED BY SB 49-1018)                   |   | A-D |             | 1                  |
| 142                      | MS24665-153   |                           | .            | . | . | . | PIN, COTTER                                    |   |     |             | 3                  |
| 143                      | BACN10JD103AU |                           | DELETED      |   |   |   |                                                |   |     |             |                    |
| 143                      | BACN10GW4AS   |                           | DELETED      |   |   |   |                                                |   |     |             |                    |

| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE |   |                                                                |   |   |   |   | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|--------------|---|----------------------------------------------------------------|---|---|---|---|-------------|--------------------|
|                          |               |                           | 1            | 2 | 3                                                              | 4 | 5 | 6 | 7 |             |                    |
| 1101-143                 | AN320C3       |                           | .            | . | NUT                                                            |   |   |   |   |             | 3                  |
| 144                      | AN960C10      |                           | .            | . | WASHER                                                         |   |   |   |   |             | 6                  |
| 145                      | AN960C10L     |                           | .            | . | WASHER                                                         |   |   |   |   |             | 6                  |
| 145A                     | MS35338-138   |                           | .            | . | WASHER                                                         |   |   |   |   | JKL         | 3                  |
| 145B                     | NAS1056C6-009 |                           | .            | . | SPACER                                                         |   |   |   |   | JKL         | 6                  |
| 145C                     | AN960C10L     |                           | .            | . | WASHER                                                         |   |   |   |   | JKL         | AR                 |
| 146                      | BACB30LJ3DU18 |                           | .            | . | BOLT                                                           |   |   |   |   | A-H         | 3                  |
| 146                      | BACB30DM3-18D |                           | .            | . | BOLT (SB 49-1031)                                              |   |   |   |   | JKL         | 3                  |
| 147                      | 65-50911-1    |                           | .            | . | CAP, MOUNT                                                     |   |   |   |   |             | 3                  |
| 148                      | 65-50912-1    |                           | .            | . | MOUNT, RIGHT AFT                                               |   |   |   |   | A-H         | 1                  |
| 148                      | 65-50912-3    |                           | .            | . | MOUNT (SB 49-1031)                                             |   |   |   |   | JKL         | 1                  |
| 149                      | 65-50917-1    |                           | .            | . | MOUNT, RIGHT FORWARD                                           |   |   |   |   | A-H         | 1                  |
| 149                      | 65-50917-3    |                           | .            | . | MOUNT (SB 49-1031)                                             |   |   |   |   | JKL         | 1                  |
| 150                      | 65-50918-1    |                           | .            | . | MOUNT, LEFT                                                    |   |   |   |   | A-H         | 1                  |
| 150                      | 65-50918-3    |                           | .            | . | MOUNT (SB 49-1031)                                             |   |   |   |   | JKL         | 1                  |
| 151                      | MS27253C1     |                           | .            |   | PLATE, IDENTIFICATION                                          |   |   |   |   |             | 1                  |
| 152                      | 380428-1-2    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[8]                                |   |   |   |   | A           | 1                  |
| 152                      | 380428-1-2    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[9]                                |   |   |   |   | A           | 1                  |
| 152                      | 380428-1-1    |                           | .            |   | ENGINE GAS TURBINE, V99193 (OPT) *[8]                          |   |   |   |   | AB          | 1                  |
| 152                      | 380428-1-1    |                           | .            |   | ENGINE GAS TURBINE, V99193 (OPT) *[9]                          |   |   |   |   | AB          | 1                  |
| 152                      | 380428-1-3    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[8]                                |   |   |   |   | B           | 1                  |
| 152                      | 380428-1-3    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[9]                                |   |   |   |   | B           | 1                  |
| 152                      | 380428-1-2    |                           | .            |   | ENGINE GAS TURBINE, V99193 (OPT TO 380428-1-3) *[8]            |   |   |   |   | AB          | 1                  |
| 152                      | 380428-1-2    |                           | .            |   | ENGINE GAS TURBINE, V99193 (OPT TO 380428-1-3) *[9]            |   |   |   |   | AB          | 1                  |
| 152                      | 380428-1-4    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[8]                                |   |   |   |   | C           | 1                  |
| 152                      | 380428-1-4    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[9]                                |   |   |   |   | C           | 1                  |
| 152                      | 380428-1-5    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[8]                                |   |   |   |   | D           | 1                  |
| 152                      | 380428-1-5    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[9]                                |   |   |   |   | D           | 1                  |
| 152                      | 380428-1-6    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[8]                                |   |   |   |   | E           | 1                  |
| 152                      | 380428-1-6    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[9]                                |   |   |   |   | E           | 1                  |
| 152                      | 380428-1-7    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[8]                                |   |   |   |   | FG          | 1                  |
| 152                      | 380428-1-7    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[9]                                |   |   |   |   | FG          | 1                  |
| 152                      | 380428-1-8    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[8]                                |   |   |   |   | H           | 1                  |
| 152                      | 380428-1-8    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[9]                                |   |   |   |   | H           | 1                  |
| 152                      | 380428-1-9    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[8]                                |   |   |   |   | JKL         | 1                  |
| 152                      | 380428-1-9    |                           | .            |   | ENGINE GAS TURBINE, V99193 *[9]                                |   |   |   |   | JKL         | 1                  |
| 153                      | BAC27DPP69    |                           | .            |   | FOIL MARKER                                                    |   |   |   |   | IK          | 1                  |
|                          | 65-66207-1    |                           |              |   | FIRE DETECTOR INSTL (FIG. 1102)                                |   |   |   |   |             | 1                  |
|                          | 65-66207-2    |                           |              |   | FIRE DETECTOR INSTL (FIG. 1102) (REPL BY 65-66207-5001, -5002) |   |   |   |   |             | 1                  |
|                          | 65-66207-3    |                           |              |   | FIRE DETECTOR INSTL (FIG. 1102)                                |   |   |   |   |             | 1                  |

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| FIG.<br>&<br>ITEM<br>NO. | PART<br>NO.   | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE                    |   |   |   |   |   |   | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|---------------------------------|---|---|---|---|---|---|-------------|--------------------|
|                          |               |                           | 1                               | 2 | 3 | 4 | 5 | 6 | 7 |             |                    |
| 1101-                    | 65-66207-4    |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-5    |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-6    |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-7    |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-8    |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-10   |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-11   |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-12   |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-5001 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-5002 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-5003 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |

- \*[00] LIMITED USAGE
- \*[1] AIRESEARCH PART SUPPLIED WITH ENGINE
- \*[2] 65-50901-10 IS IDENTICAL TO 65-50901-9 EXCEPT THAT 10-61224-2 GENERATOR IS REPLACED BY 65-50901-11 GENERATOR ASSEMBLY. 65-50901-11 GENERATOR ASSEMBLY IS IDENTICAL TO 65-50991-2 GENERATOR ASSEMBLY EXCEPT THAT 10-61224-2 GENERATOR IS REPLACED BY 10-61224-10
- \*[3] 65-50901-12 IS IDENTICAL TO 65-50901-9 EXCEPT THAT LOAD CONTROL THERMOSTAT, AIRESEARCH 107996-33-1 ON GAS TURBINE ENGINE IS REPLACED BY 107996-22-1
- \*[4] 65-50901-16 IS IDENTICAL TO 65-50901-15 EXCEPT THAT LOAD CONTROL THERMOSTAT, AIRESEARCH 107996-33-1, ON GAS TURBINE ENGINE IS REPLACED BY 107996-22-1
- \*[5] 65-50901-20 IS IDENTICAL TO 65-50901-15 EXCEPT THAT FUEL CONTROL UNIT, AIRESEARCH 3602310-5 ON GAS TURBINE ENGINE IS REPLACED BY 3602310-20
- \*[6] CONSISTS OF 65-50901 UNIT WITH MODIFIED ENGINE COMPONENTS (REF AIRESEARCH SB 49-3348)
  - 65-50901-9 MODIFIED TO 65-88936-1
  - 65-50901-13 MODIFIED TO 65-88936-7
  - 65-50901-15 MODIFIED TO 65-88936-8
  - 65-50901-18 MODIFIED TO 65-88936-9
  - 65-50901-21 MODIFIED TO 65-88936-10
- \*[7] REF FIG. 1101A
- \*[8] PRE SB 49-1056 FOR ENGINES NOT INCORPORATING GARRETT SERVICE BULLETIN GTCP85-49-5079 REVISION 8 OR LATER
- \*[9] POST SB 49-1056 FOR ENGINES INCORPORATING GARRETT SERVICE BULLETIN GTCP85-49-5079 REVISION 8 OR LATER
- \*[10] REF FIG. 1101B
- \*[11] REF FIG. 1101C
- \*[12] MS24264R14B7P AND S9046-5-9 ARE USED ONLY WITH F-74832 OR 27432-00.
- \*[13] F-74832 OR 274832-00 PLUS MS24264R14B7P AND S9046-5-9 TOGETHER ARE OPTIONAL TO F-74832-2 OR 274832-02.

USE FIGURE 1101 FOR IDENTIFICATION OF  
COMPONENTS IN FIGURE 1101A. SAME ITEM  
NUMBERS AND NOMENCLATURE ARE USED.

65-50901-XX  
65-88936-XX

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| FIG.<br>&<br>ITEM<br>NO. | PART NO.    | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7 | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|-------------|---------------------------|------------------------------------------|-------------|--------------------|
| 1101A-                   | 65-50901-22 |                           | AUXILIARY POWER UNIT ASSY                | A           | RF                 |
|                          | 65-50901-24 |                           | AUXILIARY POWER UNIT ASSY                | B           | RF                 |
|                          | 65-50901-26 |                           | AUXILIARY POWER UNIT ASSY                | C           | RF                 |
|                          | 65-50901-28 |                           | AUXILIARY POWER UNIT ASSY                | D           | RF                 |
|                          | 65-50901-30 |                           | AUXILIARY POWER UNIT ASSY                | E           | RF                 |
|                          | 65-50901-32 |                           | AUXILIARY POWER UNIT ASSY                | F           | RF                 |
|                          | 65-50901-36 |                           | AUXILIARY POWER UNIT ASSY                | G           | RF                 |
|                          | 65-50901-44 |                           | AUXILIARY POWER UNIT ASSY                | H           | RF                 |
|                          | 65-50901-46 |                           | AUXILIARY POWER UNIT ASSY                | I           | RF                 |
|                          | 65-50901-48 |                           | AUXILIARY POWER UNIT ASSY                | J           | RF                 |
|                          | 65-50901-50 |                           | AUXILIARY POWER UNIT ASSY                | K           | RF                 |
|                          | 65-50901-38 |                           | AUXILIARY POWER UNIT ASSY                | L           | RF                 |
|                          | 65-50901-42 |                           | AUXILIARY POWER UNIT ASSY                | M           | RF                 |
|                          | 65-50901-52 |                           | AUXILIARY POWER UNIT ASSY                | N           | RF                 |
|                          | 65-50901-53 |                           | AUXILIARY POWER UNIT ASSY                | O           | RF                 |
|                          | 65-50901-54 |                           | AUXILIARY POWER UNIT ASSY                | P           | RF                 |
|                          | 65-50901-55 |                           | AUXILIARY POWER UNIT ASSY                | Q           | RF                 |
|                          | 65-50901-56 |                           | AUXILIARY POWER UNIT ASSY                | R           | RF                 |
|                          | 65-50901-57 |                           | AUXILIARY POWER UNIT ASSY                | S           | RF                 |
|                          | 65-50901-58 |                           | AUXILIARY POWER UNIT ASSY                | T           | RF                 |
|                          | 65-50901-34 |                           | AUXILIARY POWER UNIT ASSY                | U           | RF                 |
|                          | 65-50901-59 |                           | AUXILIARY POWER UNIT ASSY                | V           | RF                 |
|                          | 65-50901-71 |                           | AUXILIARY POWER UNIT ASSY                | W           | RF                 |
|                          | 65-50901-72 |                           | AUXILIARY POWER UNIT ASSY                | X           | RF                 |
|                          | 65-50901-40 |                           | AUXILIARY POWER UNIT ASSY                | Y           | RF                 |
|                          | 65-50901-73 |                           | AUXILIARY POWER UNIT ASSY                | Z           | RF                 |
|                          | 65-50901-74 |                           | AUXILIARY POWER UNIT ASSY                | BA          | RF                 |
|                          | 65-50901-60 |                           | AUXILIARY POWER UNIT ASSY                | CA          | RF                 |
|                          | 65-50901-75 |                           | AUXILIARY POWER UNIT ASSY                | DA          | RF                 |
|                          | 65-50901-77 |                           | AUXILIARY POWER UNIT ASSY                | EA          | RF                 |
|                          | 65-50901-79 |                           | AUXILIARY POWER UNIT ASSY                | FA          | RF                 |
|                          | 65-50901-81 |                           | AUXILIARY POWER UNIT ASSY                | GA          | RF                 |
|                          | 65-50901-83 |                           | AUXILIARY POWER UNIT ASSY                | HA          | RF                 |
|                          | 65-50901-85 |                           | AUXILIARY POWER UNIT ASSY                | IA          | RF                 |
|                          | 65-50901-87 |                           | AUXILIARY POWER UNIT ASSY                | JA          | RF                 |
|                          | 65-50901-89 |                           | AUXILIARY POWER UNIT ASSY                | KA          | RF                 |
|                          | 65-50901-91 |                           | AUXILIARY POWER UNIT ASSY                | LA          | RF                 |
|                          | 65-50901-95 |                           | AUXILIARY POWER UNIT ASSY                | MA          | RF                 |
|                          | 65-50901-99 |                           | AUXILIARY POWER UNIT ASSY                | NA          | RF                 |
|                          | 65-88936-11 |                           | AUXILIARY POWER UNIT ASSY *[2] *[6]      |             | RF                 |
|                          | 65-88936-13 |                           | AUXILIARY POWER UNIT ASSY *[5] *[6]      |             | RF                 |
|                          | 65-88936-15 |                           | AUXILIARY POWER UNIT ASSY *[3] *[6]      |             | RF                 |
|                          | 65-88936-16 |                           | AUXILIARY POWER UNIT ASSY *[4] *[6]      |             | RF                 |
|                          | 65-88936-17 |                           | AUXILIARY POWER UNIT ASSY *[4] *[6]      |             | RF                 |
|                          | 65-88936-18 |                           | AUXILIARY POWER UNIT ASSY *[6] *[8]      |             | RF                 |
|                          | 65-50901-23 |                           | . ENGINE ASSY                            | A           | 1                  |
|                          | 65-50901-25 |                           | . ENGINE ASSY                            | B           | 1                  |



65-50901 65C35424  
65-88936 65C35694



# OVERHAUL MANUAL

| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7                                                                                          | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|
| 1101A-                   | 65-50901-27  |                           | . ENGINE ASSY                                                                                                                     | C           | 1                  |
|                          | 65-50901-29  |                           | . ENGINE ASSY                                                                                                                     | D           | 1                  |
|                          | 65-50901-31  |                           | . ENGINE ASSY                                                                                                                     | EJQXBA      | 1                  |
|                          | 65-50901-33  |                           | . ENGINE ASSY                                                                                                                     | FPW         | 1                  |
|                          | 65-50901-37  |                           | . ENGINE ASSY                                                                                                                     | GHOSZ       | 1                  |
|                          | 65-50901-39  |                           | . ENGINE ASSY *[13]                                                                                                               | KLNRTV      | 1                  |
|                          | 65-50901-43  |                           | . ENGINE ASSY                                                                                                                     | HA          |                    |
|                          | 65-50901-35  |                           | . ENGINE ASSY *[12]                                                                                                               | M CA        | 1                  |
|                          | 65-50901-41  |                           | . ENGINE ASSY *[14]                                                                                                               | U           | 1                  |
|                          | 65-50901-45  |                           | . ENGINE ASSY                                                                                                                     | Y           | 1                  |
|                          | 65-50901-76  |                           | . ENGINE ASSY                                                                                                                     | I GA        | 1                  |
|                          | 65-50901-78  |                           | . ENGINE ASSY *[13]                                                                                                               | DA          | 1                  |
|                          | 65-50901-80  |                           | . ENGINE ASSY *[12]                                                                                                               | EA          | 1                  |
|                          | 65-50901-86  |                           | . ENGINE ASSY *[14]                                                                                                               | FA          | 1                  |
|                          | 65-50901-88  |                           | . ENGINE ASSY                                                                                                                     | IA          | 1                  |
|                          | 65-50901-90  |                           | . ENGINE ASSY                                                                                                                     | JA          | 1                  |
|                          | 65-50901-92  |                           | . ENGINE ASSY                                                                                                                     | KA          | 1                  |
|                          | 65-50901-96  |                           | . ENGINE ASSY                                                                                                                     | LA          | 1                  |
|                          | 65-50901-100 |                           | . ENGINE ASSY                                                                                                                     | MA          | 1                  |
| 1                        | 96576        |                           | . ENGINE ASSY                                                                                                                     | NA          | 1                  |
| 1                        | 113896       |                           | . HOSE ASSY, V78570 (BOEING<br>65-50901-4)(PRE SB 49-1073)                                                                        | A-HA        | 1                  |
| 1                        | 113896       |                           | . HOSE ASSY, V78570 (BOEING (POST<br>SB 49-1073)                                                                                  | A-HA        | 1                  |
| 1                        | 69-50861-1   |                           | . HOSE ASSY, V78570                                                                                                               | IA-NA       | 1                  |
| 2                        | 69-50861-2   |                           | . TUBE ASSY, ENG DRAIN (OPT TO<br>65-50901-4)                                                                                     | A-HA        | 1                  |
| 3                        | BACN10P5K    |                           | . . TUBE (USED ON 69-50861-1)                                                                                                     |             | 1                  |
| 4                        | MS20819-5C   |                           | . . NUT (USED ON 69-50861-1)                                                                                                      |             | 2                  |
| 4A                       | MS21916J8-6  |                           | . . SLEEVE (USED ON 69-50861-1)                                                                                                   |             | 2                  |
| 4A                       | MS21916J8-6  |                           | . UNION, REDUCER (POST SB 49-1073)                                                                                                | A-HA        | 1                  |
| 4B                       | BACPL1K6     |                           | . UNION, REDUCER                                                                                                                  | IA-NA       | 1                  |
| 4B                       | BACPL1K6     |                           | . O-RING (POST SB 49-1073)                                                                                                        | A-HA        | 1                  |
| 5                        | 105-04111    |                           | . O-RING                                                                                                                          | IA-NA       | 1                  |
| 5                        | 69-56446-2   |                           | . . FITTING, V14798 (OPT)(USED ON<br>65-50901-23,-25,-27,-29,-31,<br>-33,-35,-37,-39,-41,-43,-45,<br>-76,-78,-80)(PRE SB 49-1073) | A-HA        | 1                  |
| 5                        | 380FA0002    |                           | . . FITTING (OPT)(USED ON<br>65-50901-23,-25,-27,-29,-31,<br>-33,-35,-37,-39,-41,-43,-45,<br>-76,-78,-80)(PRE SB 49-1073)         | A-HA        | 1                  |
|                          |              |                           | . . FITTING, V55767 (OPT)(USED ON<br>65-50901-23,-25,-27,-29,-31,<br>-33,-35,-37,-39,-41,-43,-45,<br>-76,-78,-80)(PRE SB 49-1073) | A-HA        | 1                  |

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| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7                                                                                                        | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|
| 1101A-5                  | 69-77399-1    |                           | . . FITTING (OPT)(USED ON<br>65-50901-23,-25,-27,-29,-31,<br>-33,-35,-37,-39,-41,-43,-45,<br>-76,-78,-80)(PRE SB 49-1073)                       | A-HA        | 1                  |
| 5A                       | MS21902J8     |                           | . UNION (POST SB 49-1073)                                                                                                                       | A-HA        | 1                  |
| 5A                       | MS21902J8     |                           | . UNION                                                                                                                                         | IA-NA       | 1                  |
| 5B                       | BACP11K8      |                           | . O-RING (POST SB 49-1073)                                                                                                                      | A-HA        | 1                  |
| 5B                       | BACP11K8      |                           | . O-RING                                                                                                                                        | IA-NA       | 1                  |
| 5C                       | 65C36200-1    |                           | . HOUSING ASSY, DRAIN (POST<br>SB 49-1073)                                                                                                      | A-HA        | 1                  |
| 5C                       | 65C36200-1    |                           | . HOUSING ASSY, DRAIN                                                                                                                           | IA-NA       | 1                  |
| 5E                       | 65C36200-2    |                           | . . HOUSING, LOWER (USED ON<br>65C36200-1)                                                                                                      |             | 1                  |
| 5G                       | 69-78545-1    |                           | . . SCREEN ASSY (USED ON 65C36200-1)                                                                                                            |             | 1                  |
| 5I                       | 69-78546-1    |                           | . . SPRING (USED ON 65C36200-1)                                                                                                                 |             | 1                  |
| 5K                       | BACC10DU200AB |                           | . . CLAMP ASSY (USED ON 65C36200-1)                                                                                                             |             | 1                  |
| 5M                       | M83248-1-035  |                           | . . O-RING (USED ON 65C36200-1)                                                                                                                 |             | 1                  |
| 5P                       | 65C36200-5    |                           | . . HOUSING, UPPER (USED ON<br>65C36200-1)                                                                                                      |             | 1                  |
| 5T                       | BACP11K6      |                           | . O-RING (POST SB 49-1073)                                                                                                                      | A-HA        | 1                  |
| 5T                       | BACP11K6      |                           | . O-RING                                                                                                                                        | IA-NA       | 1                  |
| 6                        | 69-39494-1    |                           | . . SEAL, SILICONE RUBBER (USED ON<br>65-50901-23,-25,-27,-29,-31,<br>-33,-35,-37,-39,-41,-43,-45,<br>-76,-78,-80,-86,-88,-90,-92,<br>-96,-100) |             | 1                  |
| -6A                      | 65-66208-1    |                           | . . MOUNT INSTL, FIRE DETECTOR (USED<br>ON 65-50901-23,-25,-27,-29,-31,<br>-33,-35,-37,-39,-41,-43,-45,<br>-92)                                 | A-HA<br>LA  | 1                  |
| 7                        | NAS623-3-2    |                           | . . . SCREW                                                                                                                                     |             | 4                  |
| 8                        | AN960PD10L    |                           | . . . WASHER                                                                                                                                    |             | 4                  |
| 9                        | 69-50874-1    |                           | . . . BRACKET ASSY                                                                                                                              |             | 1                  |
| 10                       | BACR15BA3     |                           | . . . . RIVET                                                                                                                                   |             | 8                  |
| 11                       | BACN10KH3     |                           | . . . . NUTPLATE                                                                                                                                |             | 2                  |
| 12                       | BACN10JN3C    |                           | . . . . NUTPLATE                                                                                                                                |             | 2                  |
| 13                       | 69-50874-2    |                           | . . . . BRACKET                                                                                                                                 |             | 1                  |
| 14                       | BACN10JC3C    |                           | . . . NUT                                                                                                                                       |             | 2                  |
| 15                       | AN960-10L     |                           | . . . WASHER                                                                                                                                    |             | 2                  |
| 16                       | NAS1103-3     |                           | . . . BOLT                                                                                                                                      |             | 2                  |
| 17                       | 69-50884-3    |                           | . . . BRACKET ASSY                                                                                                                              |             | 1                  |
| 18                       | BACR15BA3     |                           | . . . . RIVET                                                                                                                                   |             | 4                  |
| 19                       | BACN10KH3     |                           | . . . . NUTPLATE                                                                                                                                |             | 2                  |
| 20                       | 69-50884-4    |                           | . . . . BRACKET                                                                                                                                 |             | 1                  |
| 21                       | 69-50883-1    |                           | . . . BRACKET ASSY                                                                                                                              |             | 1                  |

| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7                 | USE<br>CODE   | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|----------------------------------------------------------|---------------|--------------------|
| 1101A-                   |              |                           |                                                          |               |                    |
| 22                       | BACR15BA3    |                           | . . . . RIVET                                            |               | 4                  |
| 23                       | BACN10KH3    |                           | . . . . NUTPLATE                                         |               | 2                  |
| 24                       | 69-50883-2   |                           | . . . . BRACKET                                          |               | 1                  |
| 25                       | BACB30LM6HU4 |                           | . . BOLT                                                 |               | 4                  |
| 26                       | AN960C616    |                           | . . WASHER                                               |               | 4                  |
| 27                       | 69-50854-2   |                           | . . BRACKET ASSY                                         |               | 1                  |
| 27A                      | BACR15BB5D   |                           | . . . RIVET                                              |               | 11                 |
| 27B                      | 69-50854-4   |                           | . . . DOUBLER                                            |               | 2                  |
| 27C                      | 69-50854-3   |                           | . . . BRACKET                                            |               | 1                  |
| 28                       | BACC10DK-( ) |                           | . . . CLAMP, WIRE BUNDLE                                 |               | AR                 |
| 29                       | BACN10JC6    |                           | . . NUT                                                  |               | 3                  |
| 30                       | AN960-616    |                           | . . WASHER                                               |               | 3                  |
| 31                       | NAS1106-3    |                           | . . BOLT                                                 |               | 3                  |
| 32                       |              |                           | SEE ITEM 153 *[00]                                       |               |                    |
| 33                       | BACB30LJ3U3  |                           | . . BOLT                                                 |               | 6                  |
| 34                       | AN960C10     |                           | . . WASHER                                               |               | 6                  |
| 35                       | 65-59388-8   |                           | . . SPRING ASSY                                          |               | 1                  |
| 35                       | 65-59388-6   |                           | . . SPRING ASSY (OPT)                                    |               | 1                  |
| 35                       | 65-59388-3   |                           | . . SPRING ASSY (OPT)                                    |               | 1                  |
| 36                       | 69-47583-1   |                           | . . . PIN                                                |               | 3                  |
| 37                       | 65-59388-4   |                           | . . . SPRING (USED ON 65-59388-3)                        |               | 1                  |
| 37                       | 65-59388-5   |                           | . . . SPRING (USED ON 65-59388-3)<br>(OPT TO 65-59388-4) |               | 1                  |
| 37                       | 65-59388-7   |                           | . . . SPRING (USED ON 65-59388-6)                        |               | 1                  |
| 37                       | 65-59388-9   |                           | . . . SPRING (USED ON 65-59388-8)                        |               | 1                  |
| 38                       | 69-55136-1   |                           | . . SEAL ASSY, ENGINE AIR                                |               | 1                  |
| 38                       | 69-55136-4   |                           | . . SEAL ASSY, ENGINE AIR (OPT)                          |               | 1                  |
| 39                       | 69-55138-1   |                           | . . . SEAL                                               |               | 1                  |
| 40                       | 69-55136-2   |                           | . . . RETAINER ASSY (USED ON 69-<br>55136-1)             |               | 1                  |
| 40                       | 69-55136-5   |                           | . . . RETAINER ASSY (USED ON 69-<br>55136-4)             |               | 1                  |
| 41                       | 69-55136-3   |                           | . . . . RETAINER (USED ON 69-55136-2)                    |               | 1                  |
| 41                       | 69-55136-6   |                           | . . . . RETAINER (USED ON 69-55136-5)                    |               | 1                  |
| 42                       | 69-55139-1   |                           | . . . . ANGLE                                            |               | 1                  |
| 43                       | 69-55142-1   |                           | . . SEAL, ENGINE AIR                                     | A             | 2                  |
| 43                       | 69-55142-2   |                           | . . SEAL, FILLED                                         |               | 2                  |
| 44                       | 69-55135-1   |                           | DELETED                                                  |               |                    |
|                          | 65-50993-1   |                           | . . BAFFLE INSTL (PRE SB 49-1040)                        | AB            | 1                  |
|                          | 65-50993-6   |                           | . . BAFFLE INSTL (POST SB 49-1040)                       | AB            | 1                  |
|                          | 65-50993-6   |                           | . . BAFFLE INSTL                                         | C-HA<br>MA NA | 1                  |
| 45                       | BACB30LJ3U2  |                           | . . . BOLT                                               |               | 18                 |
| 46                       | 65-50993-3   |                           | . . . RING, RETAINER                                     |               | 1                  |

| FIG.<br>&<br>ITEM<br>NO. | PART NO.    | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE |   |   |   |                                |   |   | USE<br>CODE                                                      | QTY<br>PER<br>ASSY |
|--------------------------|-------------|---------------------------|--------------|---|---|---|--------------------------------|---|---|------------------------------------------------------------------|--------------------|
|                          |             |                           | 1            | 2 | 3 | 4 | 5                              | 6 | 7 |                                                                  |                    |
| 1101A-                   |             |                           |              |   |   |   |                                |   |   |                                                                  |                    |
| 47                       | 65-50993-4  |                           | .            | . | . | . | SPACER                         |   |   |                                                                  | 1                  |
| 48                       | BACB30LJ3U3 |                           | .            | . | . | . | BOLT                           |   |   |                                                                  | 9                  |
| 49                       | 65-50993-5  |                           | .            | . | . | . | STRAP                          |   |   |                                                                  | 1                  |
| 50                       | CEP4571A    |                           | .            | . | . | . | SEAL, V92798                   |   |   |                                                                  | 1                  |
| 50                       | CEP4571A    |                           | .            | . | . | . | SEAL, V92798 (POST SB 49-1040) |   |   | AB                                                               | 1                  |
| 50                       | 69-45771-1  |                           | .            | . | . | . | SEAL (OPT) (PRE SB 49-1040)    |   |   | AB                                                               | 1                  |
| 51                       | MS20427M3   |                           | .            | . | . | . | RIVET                          |   |   |                                                                  | 18                 |
| 52                       | BACN10JP3DC |                           | .            | . | . | . | NUTPLATE                       |   |   |                                                                  | 9                  |
| 53                       | 65-50993-2  |                           | .            | . | . | . | RING, SEAL                     |   |   |                                                                  | 1                  |
|                          | 65-66216-1  |                           | .            | . | . | . | FILTER INSTL, FUEL             |   |   |                                                                  | 1                  |
| 54                       | 65-66216-2  |                           | .            | . | . | . | TUBE ASSY                      |   |   |                                                                  | 1                  |
| 55                       | MS21921-4K  |                           | .            | . | . | . | NUT                            |   |   |                                                                  | 1                  |
| 56                       | BACS13AP4C  |                           | .            | . | . | . | SLEEVE                         |   |   |                                                                  | 1                  |
| 57                       | 65-66216-3  |                           | .            | . | . | . | TUBE                           |   |   |                                                                  | 1                  |
| 58                       | MS29512-04  |                           | .            | . | . | . | PACKING, O-RING                |   |   |                                                                  | 1                  |
| 59                       | MS21923-4J  |                           | .            | . | . | . | FITTING                        |   |   |                                                                  | 1                  |
| 60                       | AN924-4C    |                           | .            | . | . | . | NUT                            |   |   |                                                                  | 1                  |
| 61                       | AN960C716   |                           | .            | . | . | . | WASHER                         |   |   |                                                                  | 1                  |
| 62                       | NAS679C4W   |                           | .            | . | . | . | NUT                            |   |   |                                                                  | 1                  |
| 63                       | AN960-416L  |                           | .            | . | . | . | WASHER                         |   |   |                                                                  | AR                 |
| 64                       | NAS1104-26  |                           | .            | . | . | . | BOLT                           |   |   |                                                                  | 1                  |
| 65                       | 69-50890-4  |                           | .            | . | . | . | BRACKET                        |   |   |                                                                  | 1                  |
| 66                       | MS21923-6C  |                           | .            | . | . | . | FITTING                        |   |   |                                                                  | 1                  |
| 67                       | MS21926-6C  |                           | .            | . | . | . | ELBOW                          |   |   |                                                                  | 1                  |
| 68                       | AN924-6C    |                           | .            | . | . | . | NUT                            |   |   |                                                                  | 2                  |
| 69                       | MS29512-06  |                           | .            | . | . | . | PACKING, O-RING                |   |   |                                                                  | 3                  |
| 70                       | 1732945-01  |                           | .            | . | . | . | FILTER ASSY, V90005            |   |   |                                                                  | 1                  |
|                          |             |                           |              |   |   |   | (BOEING 10-61801-1)            |   |   |                                                                  |                    |
| 71                       | 572762-02   |                           | .            | . | . | . | HEAD (REPLS 28641A)            |   |   |                                                                  | 1                  |
| 71                       | 28641A      |                           | .            | . | . | . | HEAD (REPLD BY 572762-02)      |   |   |                                                                  | 1                  |
| 72                       | 572717-01   |                           | .            | . | . | . | BOWL                           |   |   |                                                                  | 1                  |
| 73                       | 038062      |                           | .            | . | . | . | ELEMENT                        |   |   |                                                                  | 1                  |
| 74                       | 7516        |                           | .            | . | . | . | PACKING, O-RING                |   |   |                                                                  | 1                  |
| -74C                     | 65-62588-2  |                           | .            | . | . | . | SWITCH INSTL, OIL LEVEL        |   |   | A-CE<br>G-LNO<br>Q-VXZ<br>BA DA<br>EA GA<br>HA IA<br>JA LA<br>MA | 1                  |
| 74A                      | 910786      |                           | .            | . | . | . | BACKUP RING                    |   |   |                                                                  | 1                  |
| 74B                      | 7514        |                           | .            | . | . | . | PACKING, O-RING                |   |   |                                                                  | 1                  |

| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE<br>1 2 3 4 5 6 7                                     | USE<br>CODE              | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|-------------------------------------------------------------------|--------------------------|--------------------|
| 1101A-                   |               |                           |                                                                   |                          |                    |
| 85                       | MS24264R14B7P |                           | . . . RECEPTACLE *[15]                                            |                          | 1                  |
| 88                       | NAS603-8P     |                           | . . . SCREW                                                       |                          | 2                  |
| 89                       | BACC10GE10    |                           | . . . CLAMP (REPLD BY<br>BACC10GE12)                              |                          | 2                  |
| 89                       | BACC10GE12    |                           | . . . CLAMP (REPLS BACC10GE10)                                    |                          | 2                  |
| 90                       | BACC10GE4     |                           | . . . CLAMP                                                       |                          | 2                  |
| 90A                      | S9046-5-9     |                           | . . . SLEEVE, V81851 *[15]                                        |                          | 1                  |
| 91                       | MS24673-2     |                           | . . . SCREW                                                       |                          | 4                  |
| 92                       | MS35338-138   |                           | . . . WASHER                                                      |                          | 4                  |
| 93                       | BACP11P325    |                           | . . . PACKING, O-RING                                             |                          | 1                  |
| 93                       | M83248/1-222  |                           | . . . O-RING (SB 49-1044) *[9]                                    |                          | 1                  |
| 93                       | S9413-222     |                           | . . . O-RING (OPT TO M83248/1-222)<br>*[9]                        |                          | 1                  |
| 93A                      | 69-69875-1    |                           | . . . RING, BACKUP (SB 49-1044) *[9]                              |                          | 1                  |
| 94                       | 274832-00     |                           | . . . FLOAT SWITCH, V50625<br>*[15]*[16]                          | C-L                      | 1                  |
| 94                       | F74832        |                           | . . . FLOAT SWITCH, V50625 (OPT TO<br>274832-00) *[15]*[16]       | C-L                      | 1                  |
| 94                       | 274832-02     |                           | . . . FLOAT SWITCH ASSY., V50625<br>*[15]*[16]                    | C-L                      | 1                  |
| 94                       | F74832-2      |                           | . . . FLOAT SWITCH ASSY., V50625<br>(OPT TO 274832-02) *[15]*[16] | C-L                      | 1                  |
| 95                       | 65-62588-3    |                           | . . . BRACKET                                                     |                          | 1                  |
| -95K                     | 65-62588-4    |                           | . . . INDICATOR INSTL, OIL LEVEL                                  | DFMPWY<br>CA FA KA<br>NA | 1                  |
| 95A                      | NAS1351C3H8   |                           | . . . SCREW                                                       |                          | 4                  |
| 95B                      | MS35338-138   |                           | . . . WASHER                                                      |                          | 4                  |
| 95C                      | F75895        |                           | . . . SWITCH, FLOAT, V50625                                       |                          | 1                  |
| 95D                      | M83248/1-222  |                           | . . . O-RING                                                      |                          | 1                  |
| 95E                      | 69-69875-1    |                           | . . . RING, BACKUP                                                |                          | 1                  |
| 95F                      | NAS600-8      |                           | . . . BOLT                                                        |                          | 4                  |
| 95G                      | AN960-4L      |                           | . . . WASHER                                                      |                          | 4                  |
| 95H                      | BACN10JC04    |                           | . . . NUT                                                         |                          | 4                  |
| 95I                      | 65-62588-5    |                           | . . . SLEEVE                                                      |                          | 4                  |
| 95J                      | BACC45FM14C7P |                           | . . . CONNECTOR                                                   |                          | 1                  |
| -96                      | 69-47582-3    |                           | . . . CAP INSTL, OIL TANK                                         | *[17]                    | 1                  |
| 96                       | 69-47582-4    |                           | . . . CAP INSTL, OIL TANK                                         | MA NA                    | 1                  |
| 96A                      | 417-1477      |                           | . . . CAP ASSY, V99321 (USED ON<br>69-47582-4)                    |                          | 1                  |
| 96A                      | 417-584       |                           | . . . CAP ASSY, V99321 (USED ON<br>69-47582-3)                    |                          | 1                  |
| 98                       | BACN10JC3     |                           | . . . NUT                                                         |                          | 1                  |
| 98                       | MS21042L3     |                           | . . . NUT (USED ON 69-47582-4)                                    |                          | 1                  |
| 99                       | AN960C10L     |                           | . . . WASHER                                                      |                          | 1                  |
| -99                      | NAS1149C0332R |                           | . . . WASHER (USED ON 69-47582-4)                                 |                          | 1                  |
| 100                      | NAS1103-1     |                           | . . . BOLT                                                        |                          | 1                  |
| -100                     | NAS6603-1     |                           | . . . BOLT (USED ON 69-47582-4)                                   |                          | 1                  |

| FIG.<br>&<br>ITEM<br>NO.     | PART NO.     | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE<br>1 2 3 4 5 6 7                      | USE<br>CODE | QTY<br>PER<br>ASSY |
|------------------------------|--------------|---------------------------|----------------------------------------------------|-------------|--------------------|
| 1101A-<br>105<br>THRU<br>112 |              |                           | SEE ITEMS 154 THRU 161 *[00]                       |             |                    |
| 113                          | BACB30LM4U7  |                           | . . BOLT                                           |             | 1                  |
| 114                          | BACB30LM4U5  |                           | . . BOLT                                           |             | 1                  |
| 115                          | AN960PD416   |                           | . . WASHER                                         |             | 1                  |
| 116                          | 69-37926-1   |                           | . . MOUNT ASSY                                     |             | 1                  |
| 116                          | 69-37926-2   |                           | . . MOUNT ASSY (OPT)                               |             | 1                  |
| -117                         | BACR15BB5    |                           | . . . RIVET                                        |             | 3                  |
| -118                         | BACR15BA3    |                           | . . . RIVET                                        |             | 8                  |
| -119                         | BACR15BA4    |                           | . . . RIVET                                        |             | 2                  |
| -120                         | BACR15BB5    |                           | . . . RIVET (USED ON 69-37926-2)                   |             | 1                  |
| -120                         | BACR15BA5    |                           | . . . RIVET (OPT ON 69-37926-2)                    |             | 1                  |
| -121                         | AN960D8L     |                           | . . . WASHER (USE WITH BACR15BA5<br>ON 69-37926-2) |             | 1                  |
| -121                         | AN960D8L     |                           | . . . WASHER (USE WITH BACR15BB5<br>ON 69-37926-2) |             | 2                  |
| -122                         | BACN10JP4A   |                           | . . . NUTPLATE                                     |             | 2                  |
| -123                         | BACN10LGE35  |                           | . . . NUTPLATE                                     |             | 1                  |
| -124                         | BACN10MK3X45 |                           | . . . NUTPLATE                                     |             | 1                  |
| -125                         | BACN10KH3    |                           | . . . NUTPLATE                                     |             | 1                  |
| -126                         | 69-45785-1   |                           | . . . BUSS BAR                                     |             | 1                  |
| -127                         | 69-45784-1   |                           | . . . BRACKET (USED ON 69-37926-1)                 |             | 1                  |
| -127                         | 69-45784-2   |                           | . . . BRACKET (USED ON 69-37926-2)                 |             | 1                  |
| -128                         | 69-45786-1   |                           | . . . ZEE (USED ON 69-37926-1)                     |             | 1                  |
| -128                         | 69-45786-2   |                           | . . . ZEE (USED ON 69-37926-2)                     |             | 1                  |
| 129                          | BACB30LU3-1  |                           | . SCREW                                            |             | 6                  |
| 130                          | 65-50964-1   |                           | . . BRACKET ASSY                                   |             | 1                  |
| -131                         | BACR15BA3    |                           | . . . RIVET                                        |             | 2                  |
| -132                         | BACN10JN4C   |                           | . . . NUTPLATE                                     |             | 1                  |
| -133                         | 65-50964-2   |                           | . . . BRACKET                                      |             | 1                  |
| 134                          |              |                           | SEE ITEM 162 *[00]                                 |             |                    |
| 135                          | MS21045-3    |                           | . . NUT                                            |             | 4                  |
| 135A                         | AN960-10L    |                           | . . WASHER                                         |             | 4                  |
| 136                          | BACB30NE3-12 |                           | . . BOLT                                           |             | 4                  |
| 137                          | S8157N1-220  |                           | . . SPACER, V99193                                 |             | 4                  |
| 138                          | 65-62580-2   |                           | . . STAND ASSY                                     |             | 1                  |
| -138                         | 65-50902-3   |                           | . . MOUNT INSTL                                    |             | 1                  |
| 139                          | BACB30LM6HU6 |                           | . . . BOLT                                         |             | 7                  |
| 139A                         | BACB30LM6HU8 |                           | . . . BOLT                                         |             | 1                  |
| 140                          | BACB30LM6HU4 |                           | . . . BOLT                                         |             | 4                  |
| 141                          | AN960C616    |                           | . . . WASHER                                       |             | 11                 |
| 141A                         | BACW10BP6APU |                           | . . . WASHER                                       |             | 1                  |
| 141B                         | BACJ40E40-40 |                           | . . . JUMPER                                       |             | 1                  |

65-50901 65C35424  
65-88936 65C35694



| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE |   |   |                                  |        |   |   | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|--------------|---|---|----------------------------------|--------|---|---|-------------|--------------------|
|                          |               |                           | 1            | 2 | 3 | 4                                | 5      | 6 | 7 |             |                    |
| 1101A-                   |               |                           |              |   |   |                                  |        |   |   |             |                    |
| 142                      | MS24665-153   |                           | .            | . | . | PIN, COTTER                      |        |   |   |             | 3                  |
| 143                      | BACN10JD103AU |                           |              |   |   | DELETED                          |        |   |   |             |                    |
| 143                      | AN320C3       |                           | .            | . | . | NUT                              |        |   |   |             | 3                  |
| 144                      | AN960C10      |                           | .            | . | . | WASHER                           |        |   |   |             | 6                  |
| 145                      | AN960C10L     |                           | .            | . | . | WASHER                           |        |   |   |             | 6                  |
| 145A                     | MS35338-138   |                           | .            | . | . | WASHER                           |        |   |   |             | 3                  |
| 145B                     | NAS1056C6-009 |                           | .            | . | . | SPACER                           |        |   |   |             | 6                  |
| 145C                     | AN960C10L     |                           | .            | . | . | WASHER                           |        |   |   |             | AR                 |
| 146                      | NAS6703DU18   |                           | .            | . | . | BOLT                             |        |   |   |             | 3                  |
| 146                      | BACB30NL3DU18 |                           | .            | . | . | BOLT (OPT TO BACB30DM3-18D)      |        |   |   |             | 3                  |
| 146                      | BACB30DM3-18D |                           | .            | . | . | BOLT (OPT TO NAS6703DU18)        |        |   |   |             | 3                  |
| 147                      | 65-50911-1    |                           | .            | . | . | CAP, MOUNT                       |        |   |   |             | 3                  |
| 148                      | 65-50912-3    |                           | .            | . | . | MOUNT (LIMITED)                  |        |   |   |             | 1                  |
| 149                      | 65-50917-3    |                           | .            | . | . | MOUNT (LIMITED)                  |        |   |   |             | 1                  |
| 150                      | 65-50918-3    |                           | .            | . | . | MOUNT (LIMITED)                  |        |   |   |             | 1                  |
| 151                      | MS27253C1     |                           | .            | . |   | PLATE, IDENTIFICATION            |        |   |   |             | 1                  |
| 152                      | 380428-1-10   |                           | .            | . |   | ENGINE, GAS TURBINE, V99193*[10] | A      |   |   |             | 1                  |
| 152                      | 380428-1-10   |                           | .            | . |   | ENGINE, GAS TURBINE, V99193*[11] | A      |   |   |             | 1                  |
| 152                      | 380428-1-11   |                           | .            | . |   | ENGINE, GAS TURBINE, V99193*[10] | B      |   |   |             | 1                  |
| 152                      | 380428-1-11   |                           | .            | . |   | ENGINE, GAS TURBINE, V99193*[11] | B      |   |   |             | 1                  |
| 152                      | 380428-1-12   |                           | .            | . |   | ENGINE, GAS TURBINE, V99193*[10] | C      |   |   |             | 1                  |
| 152                      | 380428-1-12   |                           | .            | . |   | ENGINE, GAS TURBINE, V99193*[11] | C      |   |   |             | 1                  |
| 152                      | 380428-2-1    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193*[10] | D      |   |   |             | 1                  |
| 152                      | 380428-2-1    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193*[11] | D      |   |   |             | 1                  |
| 152                      | 380428-3-1    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193*[10] | FPW    |   |   |             | 1                  |
| 152                      | 380428-3-1    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193*[11] | FPW    |   |   |             | 1                  |
| 152                      | 380428-1-14   |                           | .            | . |   | ENGINE, GAS TURBINE, V99193      | EJQXBA |   |   |             | 1                  |
|                          |               |                           |              |   |   | *[7] *[10]                       |        |   |   |             |                    |
| 152                      | 380428-1-14   |                           | .            | . |   | ENGINE, GAS TURBINE, V99193      | EJQXBA |   |   |             | 1                  |
|                          |               |                           |              |   |   | *[7] *[11]                       |        |   |   |             |                    |
| 152                      | 380428-5-1    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193      | GHOSZ  |   |   |             | 1                  |
|                          |               |                           |              |   |   | *[7] *[10]                       |        |   |   |             |                    |
| 152                      | 380428-5-1    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193      | GHOSZ  |   |   |             | 1                  |
|                          |               |                           |              |   |   | *[7] *[11]                       |        |   |   |             |                    |
| 152                      | 380428-5-2    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193      | GHOSZ  |   |   |             | 1                  |
| 152                      | 380428-6-1    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193 *[7] | KLNRTV |   |   |             | 1                  |
| 152                      | 380428-6-2    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193      | KLNRTV |   |   |             | 1                  |
| 152                      | 380428-8-1    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193 *[7] | M CA   |   |   |             | 1                  |
| 152                      | 380428-4-1    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193      | U      |   |   |             | 1                  |
| 152                      | 380428-4-2    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193      | U      |   |   |             | 1                  |
| 152                      | 380428-7-1    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193 *[7] | Y      |   |   |             | 1                  |
| 152                      | 380428-7-2    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193      | Y      |   |   |             | 1                  |
| 152                      | 380428-9-1    |                           | .            | . |   | ENGINE, GAS TURBINE, V99193      | I LA   |   |   |             | 1                  |
| 152                      | 380428-10-1   |                           | .            | . |   | ENGINE, GAS TURBINE, V99193      | DA LA  |   |   |             | 1                  |
|                          |               |                           |              |   |   |                                  | MA     |   |   |             |                    |

| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE<br>1 2 3 4 5 6 7                                   | USE<br>CODE                                      | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|-----------------------------------------------------------------|--------------------------------------------------|--------------------|
| 1101A-                   |              |                           |                                                                 |                                                  |                    |
| 152                      | 380428-11-1  |                           | . . ENGINE, GAS TURBINE, V99193                                 | EA JA                                            | 1                  |
| 152                      | 380428-12-1  |                           | . . ENGINE, GAS TURBINE, V99193                                 | FA KA<br>NA                                      | 1                  |
| 153                      | 61-30100-( ) |                           | . WIRE BUNDLE *[9]                                              |                                                  | 1                  |
| 153                      |              |                           | . CLAMP *[1]                                                    |                                                  | 2                  |
| 155                      | 624AG5HD     |                           | . NUT (OPT)                                                     |                                                  | 12                 |
| 155                      | NAS1805-6    |                           | . NUT (OPT)                                                     |                                                  | 12                 |
| 155                      | BACN10GW5AS  |                           | . NUT                                                           |                                                  | 12                 |
| 156                      | BACB30LM4U11 |                           | . BOLT                                                          |                                                  | 1                  |
| 157                      | AN960PD416L  |                           | . WASHER                                                        |                                                  | 1                  |
| 158                      |              |                           | . DUCT *[1]                                                     |                                                  | 1                  |
| 159                      | BACB30LM3U8  |                           | . BOLT                                                          |                                                  | 3                  |
| 160                      | AN960PD10L   |                           | . WASHER                                                        |                                                  | 3                  |
| 161                      | 941D339-1    |                           | . TRANSFORMER, V83843 (BOEING<br>10-61224-5)                    |                                                  | 1                  |
| 162                      | 10-61224-12  |                           | . GENERATOR (PREF)(OPT 10-61224-2,<br>-10)                      | A-YCA-<br>HA IA                                  | 1                  |
| 162                      | 976J449-1    |                           | . GENERATOR, V83843 (BOEING<br>10-61224-2)(OPT 10-61224-10,-12) | A-YCA-<br>HA IA                                  | 1                  |
| 162                      | 976J598-1    |                           | . GENERATOR, V83843 (BOEING<br>10-61224-10)(OPT 10-61224-2,-12) | A-Y                                              | 1                  |
| 162                      | 976J449-1    |                           | . GENERATOR, V83843 (BOEING<br>10-61224-2)                      | Z BA                                             | 1                  |
| 162                      | 10-61224-12  |                           | . GENERATOR (PREF)(OPT 10-61224-2)                              | MA NA                                            | 1                  |
| 163                      | BACN10JC4    |                           | . NUT                                                           | FGHK-P<br>RSTVW<br>YZ DA<br>FA HA<br>IA MA<br>NA | 4                  |
| 164                      | AN960C416L   |                           | . WASHER                                                        | FGH<br>K-PRS<br>TVWYZ<br>DA FA<br>HA IA<br>MA NA | 4                  |
| 165                      | AN4045-1     |                           | . GASKET                                                        | FGHK-P<br>RSTVWY<br>Z DA<br>FA HA<br>IA MA<br>NA | 1                  |
| 166                      | 2CM9ABY7     |                           | . TACH GENERATOR, V97424                                        | FGHK-P<br>RSTVWY<br>Z DA<br>FA HA<br>IA MA<br>NA | 1                  |

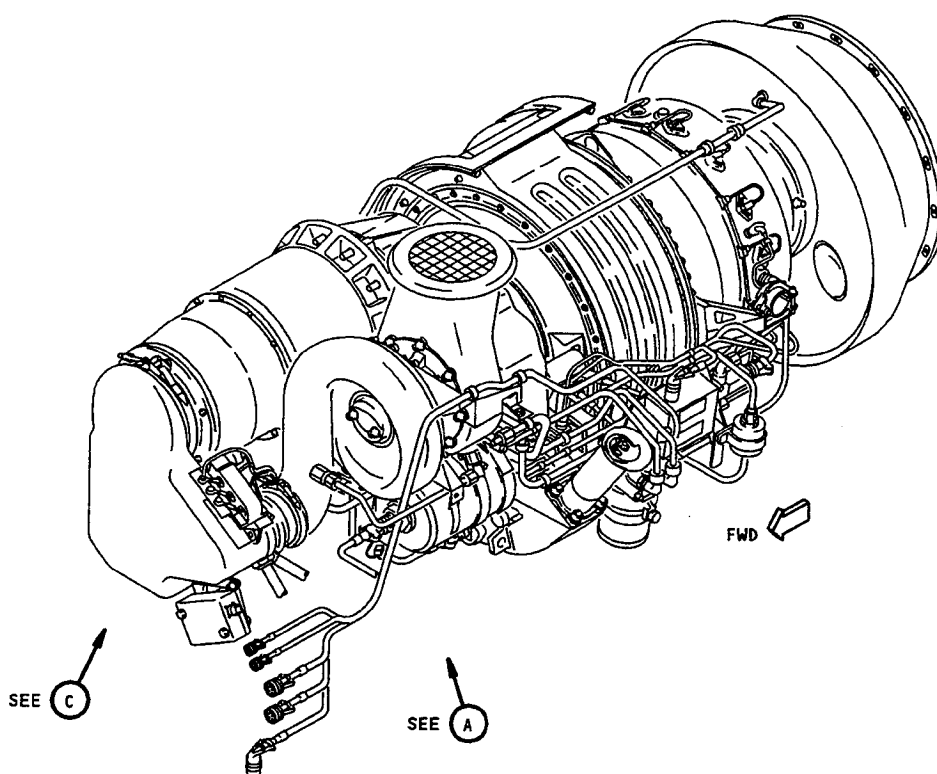


| FIG.<br>&<br>ITEM<br>NO. | PART NO.    | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E         |   |   |   |   |   |   | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|-------------|---------------------------|---------------------------------|---|---|---|---|---|---|-------------|--------------------|
|                          |             |                           | 1                               | 2 | 3 | 4 | 5 | 6 | 7 |             |                    |
| 1101A-                   |             |                           | INSTALLATION ITEMS              |   |   |   |   |   |   |             |                    |
|                          | 65-66207-1  |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-3  |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-4  |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-5  |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-10 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-11 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-12 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-14 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-15 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-16 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-17 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-18 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-19 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |
|                          | 65-66207-20 |                           | FIRE DETECTOR INSTL (FIG. 1102) |   |   |   |   |   |   |             | 1                  |

- ITEM NOT ILLUSTRATED

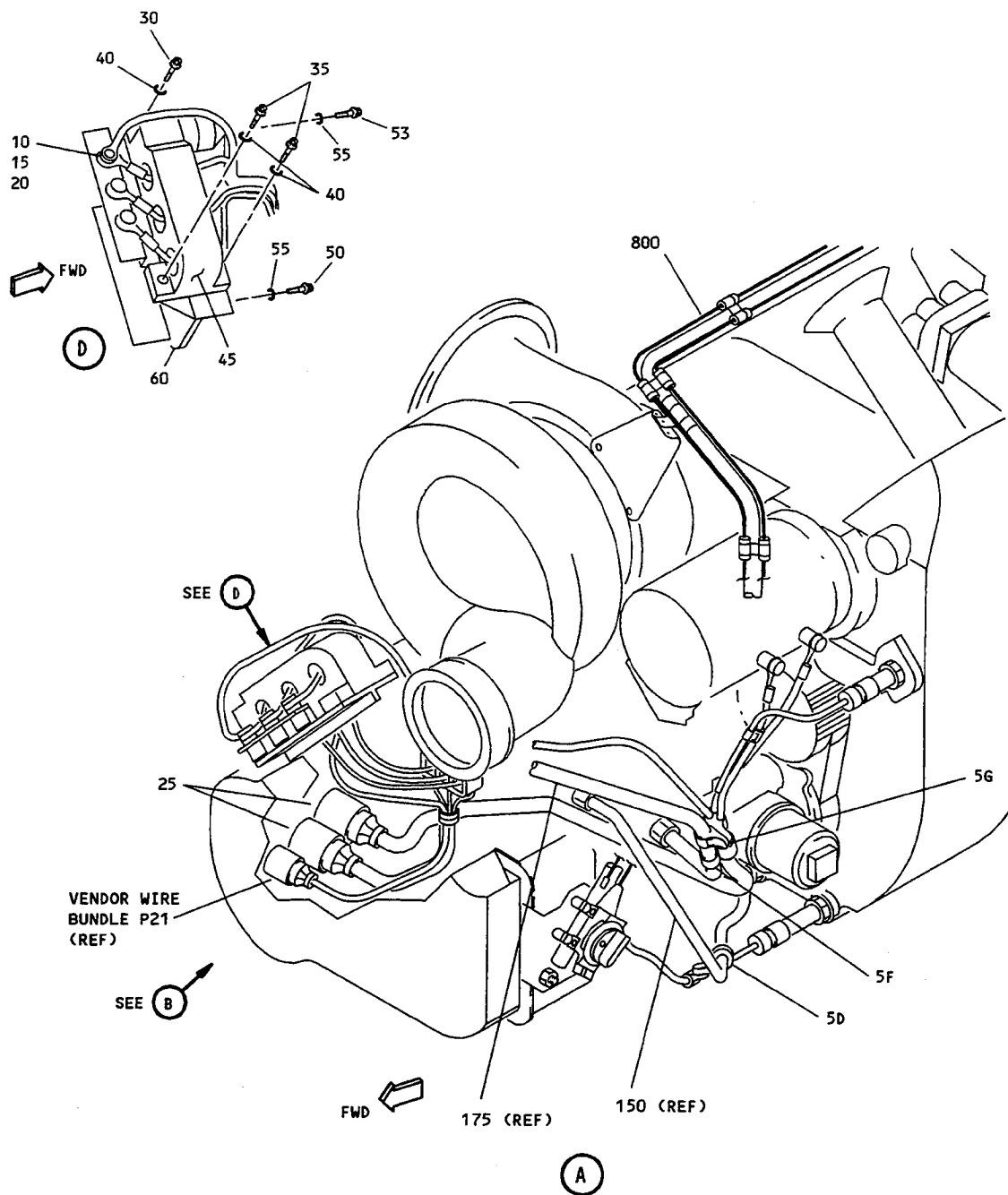
- \*[00] PART ASSIGNED ITEM NO. DIFFERENT FROM FIG. 1101 TO SHOW CORRECT USAGE  
(SEE ITEMS 153 THRU 162)
- \*[1] AIRESEARCH PART SUPPLIED WITH ENGINE
- \*[2] MADE FROM 65-50901-22
- \*[3] MADE FROM 65-50901-26
- \*[4] MADE FROM 65-50901-30
- \*[5] MADE FROM 65-50901-24
- \*[6] REF AIRESEARCH SB 49-3348 OR BOEING DWG 65-88936
- \*[7] ENGINES REWORKED PER 65C31462-1. LIMITED USAGE
- \*[8] IDENTICAL TO 65-50901-32
- \*[9] LIMITED USAGE
- \*[10] PRE SB 49-1056 FOR ENGINES NOT INCORPORATING GARRETT SERVICE BULLETIN  
GTCP85-49-5079 REVISION 8 OR LATER
- \*[11] POST SB 49-1056 FOR ENGINES INCORPORATING GARRETT SERVICE BULLETIN GTCP85-  
49-5079 REVISION 8 OR LATER
- \*[12] AUXILIARY POWER UNIT 65-50901-35 INTERCHANGEABLE WITH 65-50901-78 PER SERVICE  
BULLETIN 49-1063
- \*[13] AUXILIARY POWER UNIT 65-50901-39 INTERCHANGEABLE WITH 65-50901-76 PER SERVICE  
BULLETIN 49-1063
- \*[14] AUXILIARY POWER UNIT 65-50901-41 INTERCHANGEABLE WITH 65-50901-80 PER SERVICE  
BULLETIN 49-1063
- \*[15] MS24264R14B7P AND S9046-5-9 ARE USED ONLY WITH F-74832 OR 274832-00.
- \*[16] F-74832 OR 274832-00 PLUS MS24264R14B7P AND S9046-5-9 TOGETHER ARE OPTIONAL  
TO F-74832-2 OR 274832-02.
- \*[17] USED ON ALL EXCEPT MA AND NA EFF CODES.

65-50901  
65-88936  
65C35424  
65C35694



65C35424-1,-2,-3,-4

Auxiliary Power Unit Assembly  
Figure 1101B (Sheet 1)

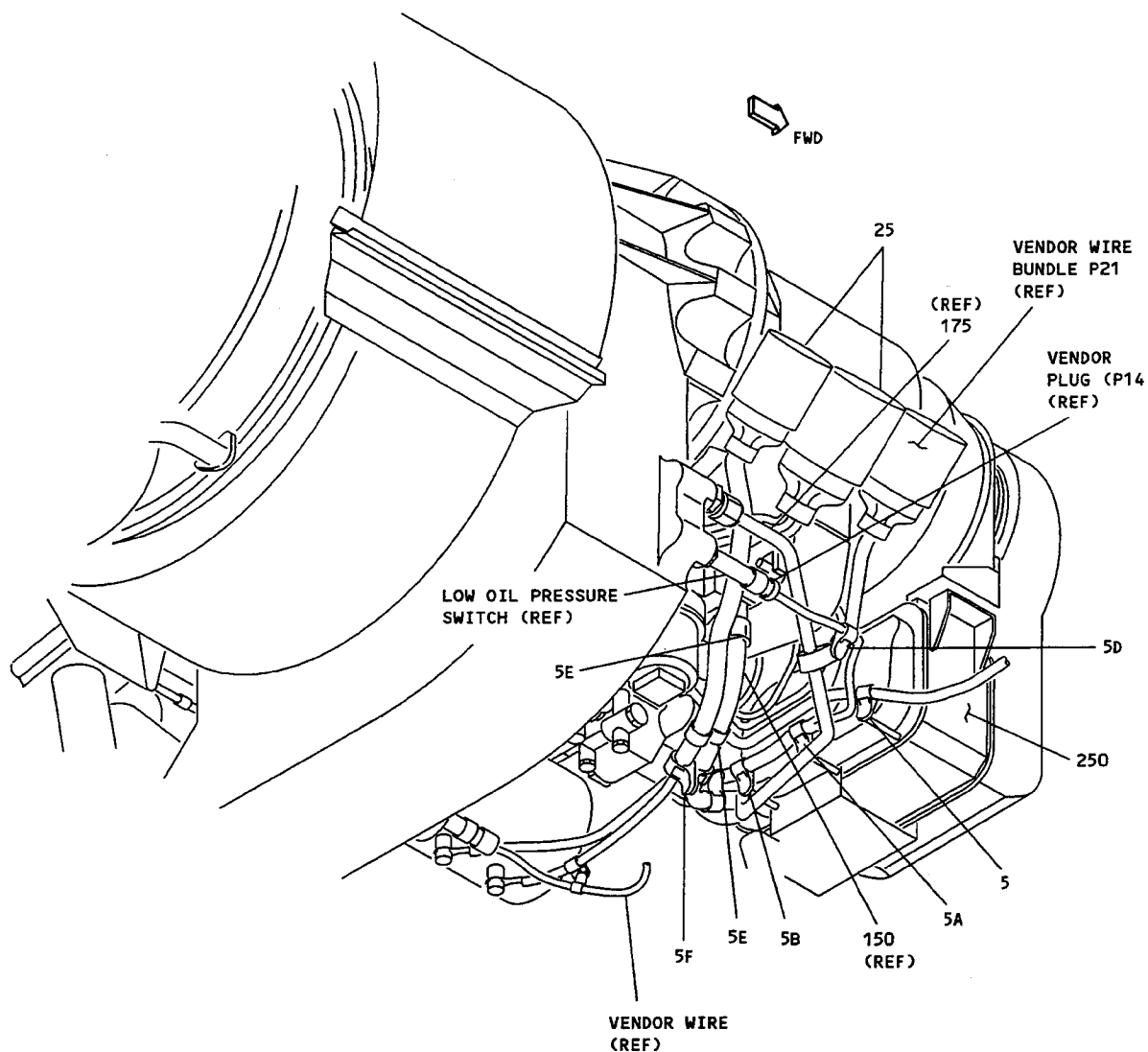


65C35424-1,-2,-3,-4

Auxiliary Power Unit Assembly  
Figure 1101B (Sheet 2)

65-50901  
65-88936  
65C35424  
65C35694

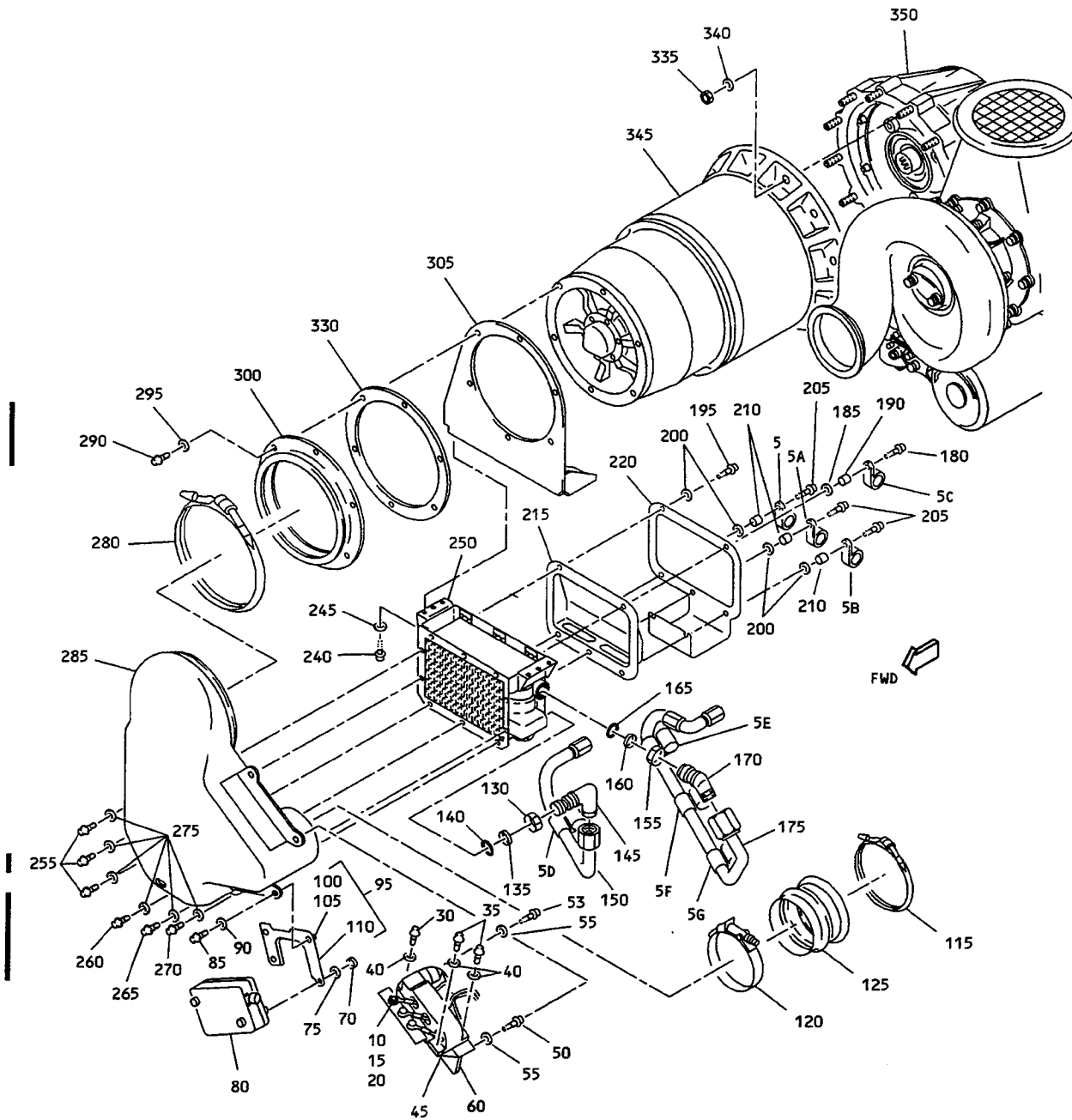
**BOEING**  
OVERHAUL MANUAL



(B)

65C35424-1,-2,-3,-4

Auxiliary Power Unit Assembly  
Figure 1101B (Sheet 3)



(C)

65C35424-1,-2,-3,-4

Auxiliary Power Unit Assembly  
Figure 1101B (Sheet 4)

| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE<br>1 2 3 4 5 6 7                      | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|----------------------------------------------------|-------------|--------------------|
| 1101B-                   | 65C35424-1   |                           | AUXILIARY POWER UNIT ASSY<br>(SUNDSTRAND APS 2000) | A           | RF                 |
|                          | 65C35424-2   |                           | AUXILIARY POWER UNIT ASSY<br>(SUNDSTRAND APS 2000) | B           | RF                 |
|                          | 65C35424-3   |                           | AUXILIARY POWER UNIT ASSY<br>(SUNDSTRAND APS 2000) | C           | RF                 |
|                          | 65C35424-4   |                           | AUXILIARY POWER UNIT ASSY<br>(SUNDSTRAND APS 2000) | D           | RF                 |
| 5                        | BACC10HS-()  |                           | . CLAMP                                            |             | 1                  |
| 5A                       | BACC10HS-()  |                           | . CLAMP                                            |             | 1                  |
| 5B                       | BACC10HS-()  |                           | . CLAMP                                            |             | 1                  |
| 5C                       | BACC10HS-()  |                           | . CLAMP                                            |             | 1                  |
| 5D                       | BACC10HS-()  |                           | . CLAMP                                            |             | 2                  |
| 5E                       | BACC10HS-()  |                           | . CLAMP                                            |             | 2                  |
| 5F                       | BACC10HS-()  |                           | . CLAMP                                            |             | 2                  |
| 5G                       | BACC10HS-()  |                           | . CLAMP                                            |             | 2                  |
| 10                       | MS21042L3    |                           | . NUT                                              |             | 3                  |
| 15                       | NAS1106-3    |                           | . BOLT                                             |             | 3                  |
| 20                       | AN960-616    |                           | . WASHER                                           |             | 3                  |
| 25                       | 61-30100-508 |                           | . WIRE BUNDLE ASSY *[2] *[3]                       |             | 1                  |
| 25                       | 61-30100-509 |                           | . WIRE BUNDLE ASSY *[2] *[4]                       |             | 1                  |
| 25                       | 61-30100-511 |                           | . WIRE BUNDLE ASSY *[2] *[5]                       | B           | 1                  |
| 25                       | 61-30100-512 |                           | . WIRE BUNDLE ASSY *[2] *[6]                       | B           | 1                  |
| 30                       | NAS6703U7    |                           | . BOLT                                             |             | 1                  |
| 35                       | NAS6703U8    |                           | . BOLT                                             |             | 2                  |
| 40                       | AN960C10     |                           | . WASHER                                           |             | 3                  |
| 45                       | 941D339-1    |                           | . TRANSFORMER, V83843<br>(SPEC 10-61224-5)         |             | 1                  |
| 50                       | NAS6704U4    |                           | . BOLT                                             |             | 2                  |
| 53                       | NAS6704U2    |                           | . BOLT                                             |             | 2                  |
| 55                       | AN960C416    |                           | . WASHER                                           |             | 2                  |
| 60                       | 69-37926-2   |                           | . MOUNT ASSY - TRANSFORMER                         |             | 1                  |
| -61                      | MS20426-B3-4 |                           | . . RIVET                                          |             | 2                  |
| -61F                     | BACN10PC3    |                           | . . NUTPLATE                                       |             | 1                  |
| -61J                     | MS20426-B4-4 |                           | . . RIVET                                          |             | 2                  |
| -61N                     | BACN10MK3X45 |                           | . . NUTPLATE                                       |             | 1                  |
| -62                      | MS20426-B3-4 |                           | . . RIVET                                          |             | 2                  |
| -62F                     | BACN10LGF35  |                           | . . NUTPLATE                                       |             | 1                  |
| -62J                     | MS20426-B3-4 |                           | . . RIVET                                          |             | 4                  |
| -62N                     | BACN10AM5A4  |                           | . . NUTPLATE                                       |             | 2                  |
| -63                      | MS20470-B5-4 |                           | . . RIVET                                          |             | 3                  |
| -63F                     | AN960-D8L    |                           | . . WASHER                                         |             | 3                  |
| -63J                     | 69-45785-1   |                           | . . BUSS BAR                                       |             | 1                  |
| -63N                     | 69-45786-1   |                           | . . BRACKET - ZEE                                  |             | 1                  |
| -63T                     | 69-45784-1   |                           | . . BRACKET                                        |             | 1                  |

- ITEM NOT ILLUSTRATED

| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7                   | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|------------------------------------------------------------|-------------|--------------------|
| 1101B-<br>-65            | 170101-105   |                           | . AUXILIARY POWER UNIT ASSY, V55820<br>(SPEC 10-62199-101) | A           | 1                  |
| -65                      | 170101-106A  |                           | . AUXILIARY POWER UNIT ASSY, V55820<br>(SPEC 10-62199-106) | B           | 1                  |
| -65                      | EPS008-1010  |                           | . AUXILIARY POWER UNIT ASSY, V55820                        | C           | 1                  |
| -65                      | 170101-106B  |                           | . AUXILIARY POWER UNIT ASSY, V55820<br>(SPEC 10-62199-107) | D           | 1                  |
| 70                       | NAS1758L3    |                           | . NUT, V55820 *[1]                                         |             | 2                  |
| 75                       | AN960C10L    |                           | . WASHER, V55820 *[1]                                      |             | 2                  |
| 80                       | 170079-( )   |                           | . MONITOR UNIT - EVENT, V55820 *[1]                        |             | 1                  |
| 85                       | MS9556-06    |                           | . BOLT, V55820 *[1]                                        |             | 2                  |
| 90                       | AN960C10L    |                           | . WASHER, V55820 *[1]                                      |             | 2                  |
| 95                       | 170239-101   |                           | . BRACKET ASSY, V55820 *[1]                                |             | 1                  |
| 100                      | MS20426A3-4  |                           | . . RIVET, V55820 *[1]                                     |             | 4                  |
| 105                      | MS21060L3    |                           | . . NUTPLATE, V55820 *[1]                                  |             | 2                  |
| 110                      | 170239-2     |                           | . . BRACKET, V55820 *[1]                                   |             | 1                  |
| 115                      | 179501       |                           | . CLAMP - V-BAND, V55820 *[1]                              |             | 1                  |
| 120                      | 179503       |                           | . CLAMP - V-BAND, V55820 *[1]                              |             | 1                  |
| 125                      | 170110-100   |                           | . DUCT ASSY - FAN ADAPTOR, V55820<br>*[1]                  |             | 1                  |
| 130                      | AN6289J8     |                           | . NUT, V55820 *[1]                                         |             | 1                  |
| 135                      | MS28773-08   |                           | . RETAINER, V55820 *[1]                                    |             | 1                  |
| 140                      | M83248-1-908 |                           | . PACKING - PREFORMED, V55820 *[1]                         |             | 2                  |
| 145                      | MS21908J8    |                           | . ELBOW, V55820 *[1]                                       |             | 1                  |
| 150                      | 170146-102   |                           | . TUBE ASSY, V55820 *[1]                                   |             | 1                  |
| 155                      | AN6289J8     |                           | . NUT, V55820 *[1]                                         |             | 1                  |
| 160                      | MS28773-08   |                           | . RETAINER, V55820 *[1]                                    |             | 1                  |
| 165                      | M83248-1-908 |                           | . PACKING - PREFORMED, V55820 *[1]                         |             | 2                  |
| 170                      | 170351-1     |                           | . ELBOW, V55820 *[1]                                       |             | 1                  |
| 175                      | 170147-103   |                           | . TUBE ASSY, V55820 *[1]                                   | A           | 1                  |
| 175                      | 4500498      |                           | . TUBE ASSY, V55820 *[1]                                   | B           | 1                  |
| 180                      | NAS6603-20   |                           | . BOLT                                                     |             | 1                  |
| 185                      | AN960C10     |                           | . WASHER                                                   |             | 1                  |
| 190                      | NAS43HT3-34  |                           | . SPACER                                                   |             | 1                  |
| 195                      | MS9556-06    |                           | . BOLT, V55820 *[1]                                        |             | 1                  |
| 200                      | AN960C10L    |                           | . WASHER, V55820 *[1]                                      |             | 4                  |
| 205                      | NAS6603-25   |                           | . BOLT                                                     |             | 3                  |
| 210                      | NAS43HT3-80  |                           | . SPACER                                                   |             | 3                  |
| 215                      | 170111-3     |                           | . DUCT - EXHAUST COOLING AIR, V55820<br>*[1]               |             | 1                  |
| 220                      | 170275-101   |                           | . BRACKET ASSY, V55820 *[1]                                |             | 1                  |
| -225                     | MS20426A3-4  |                           | . . RIVET, V55820 *[1]                                     |             | 10                 |
| -230                     | MS21060L3    |                           | . . NUTPLATE, V55820 *[1]                                  |             | 5                  |
| -235                     | 170275-2     |                           | . . BRACKET, V55820 *[1]                                   |             | 1                  |
| 240                      | MS9556-06    |                           | . BOLT, V55820 *[1]                                        |             | 4                  |

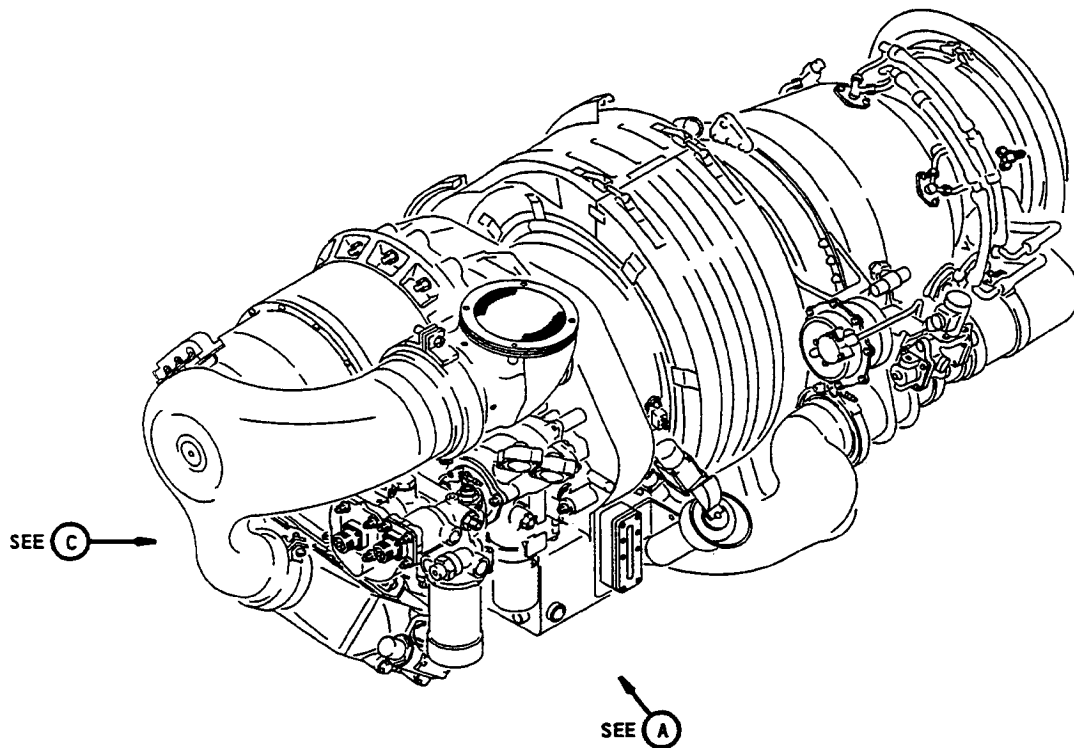
- ITEM NOT ILLUSTRATED





**BOEING**   
**COMMERCIAL JET**  
OVERHAUL MANUAL

65-50901  
65-88936  
65C35424  
65C35694

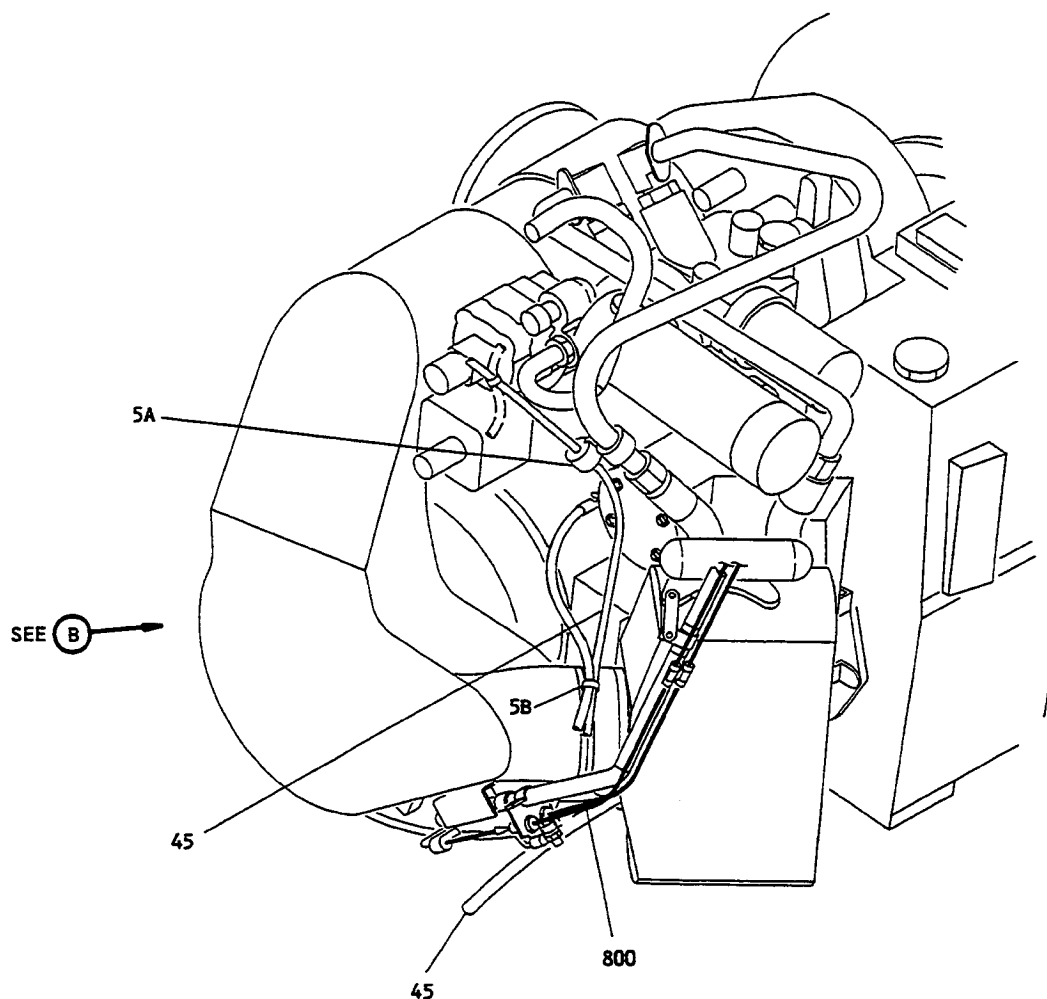


65C35694-XX

Auxiliary Power Unit Assembly  
Figure 1101C (Sheet 1)

65-50901  
65-88936  
65C35424  
65C35694

**BOEING**   
**COMMERCIAL JET**  
**OVERHAUL MANUAL**

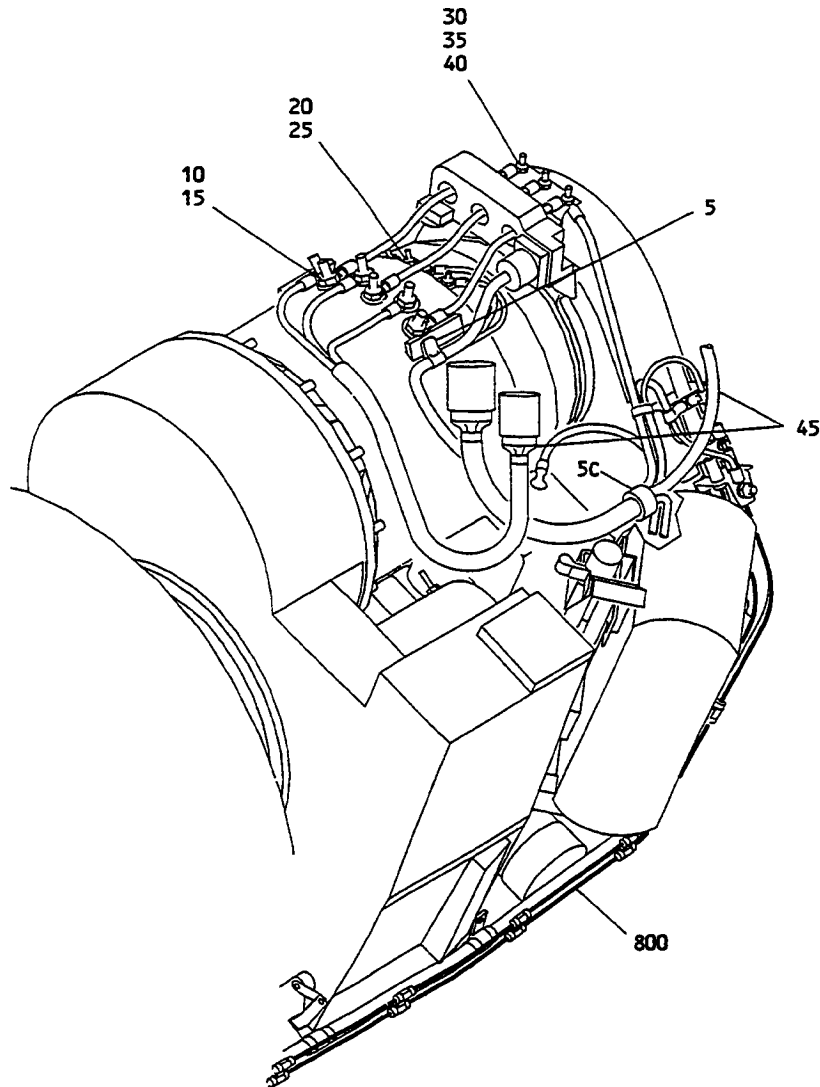


65C35694-XX

Auxiliary Power Unit Assembly  
Figure 1101C (Sheet 2)

**BOEING**   
**COMMERCIAL JET**  
OVERHAUL MANUAL

65-50901  
65-88936  
65C35424  
65C35694



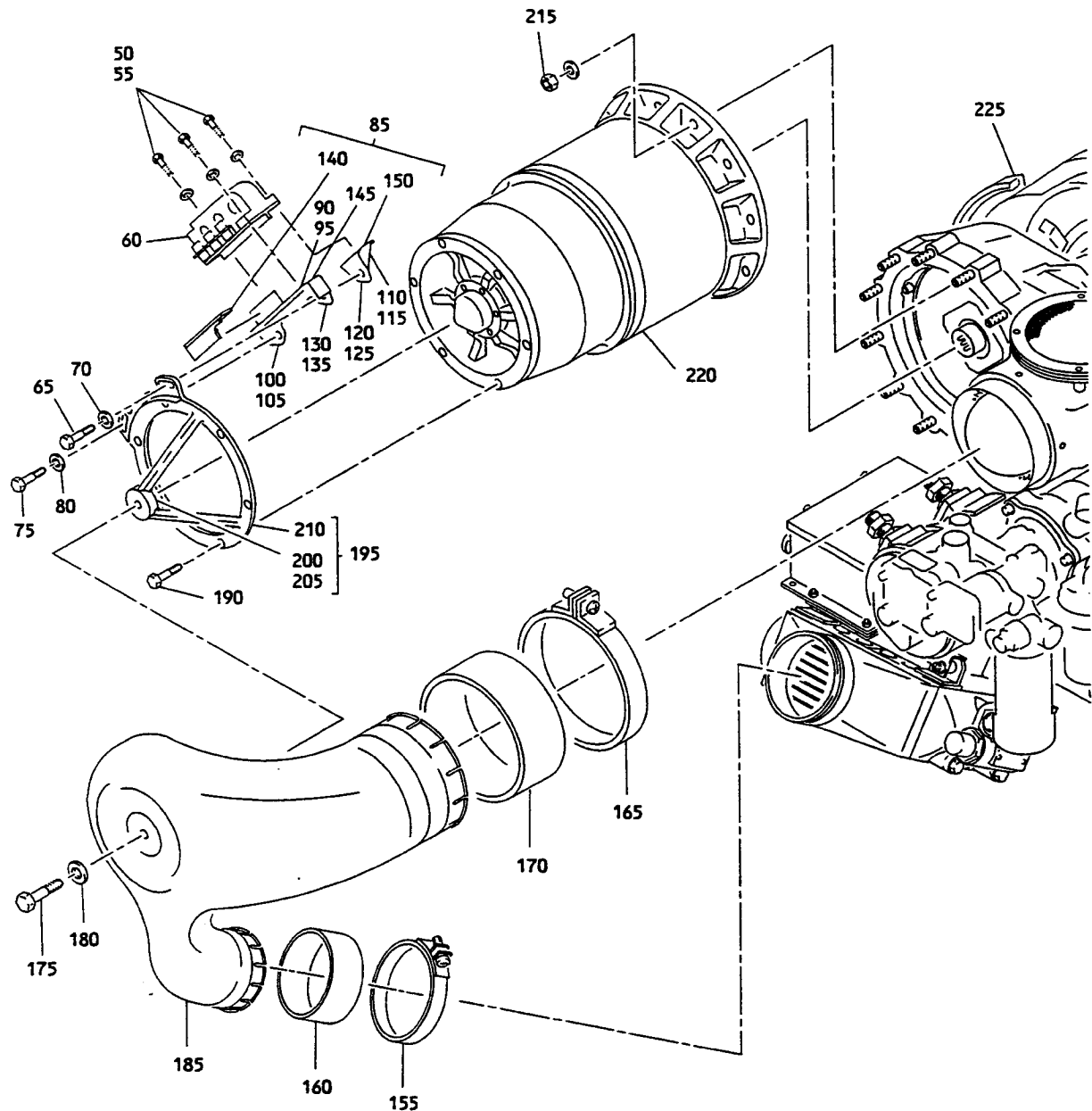
(B)

65C35694-XX

Auxiliary Power Unit Assembly  
Figure 1101C (Sheet 3)

65-50901  
65-88936  
65C35424  
65C35694

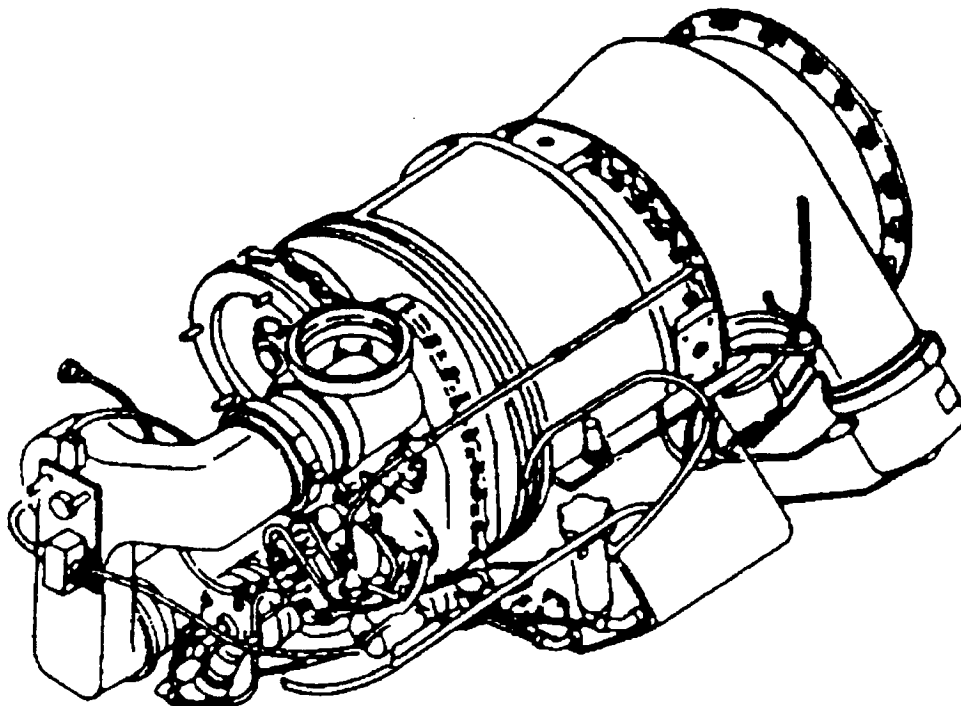
**BOEING**   
**COMMERCIAL JET**  
**OVERHAUL MANUAL**



(C)

65C35694-XX

Auxiliary Power Unit Assembly  
Figure 1101C (Sheet 4)

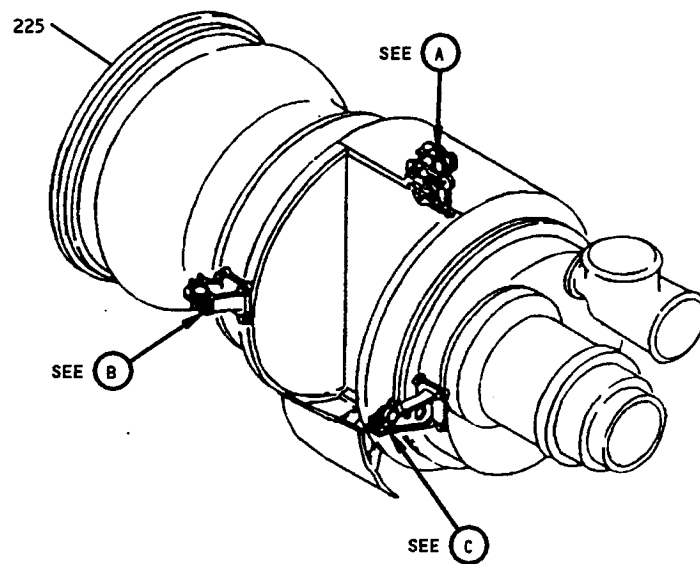
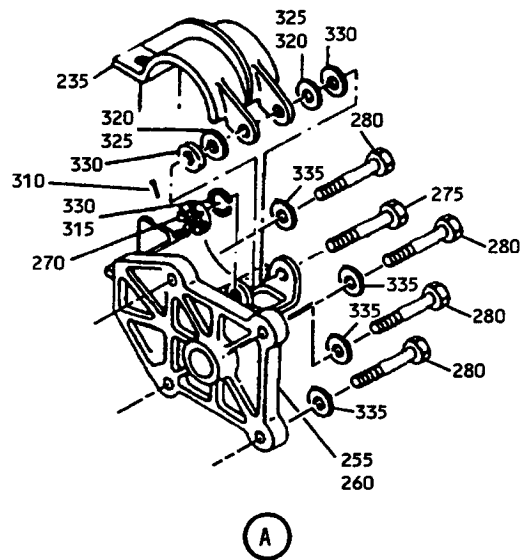


65-50901-98

Auxiliary Power Unit Assembly  
Figure 1101C (Sheet 5)

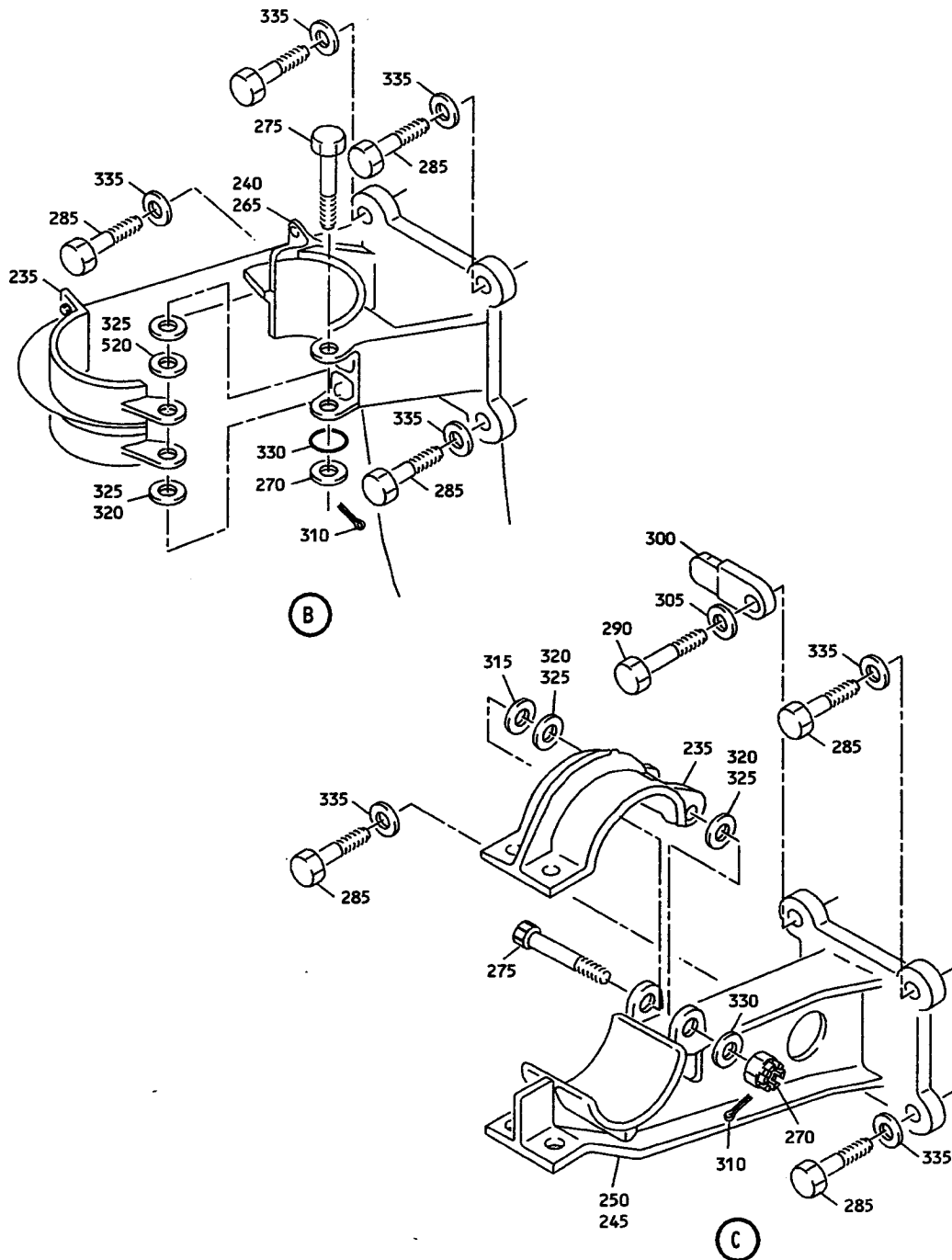
65-50901  
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65C35694

**BOEING**  
OVERHAUL MANUAL



65-50901-98

Auxiliary Power Unit Assembly  
Figure 1101C (Sheet 6)



65-50901-98

Auxiliary Power Unit Assembly  
Figure 1101C (Sheet 7)

| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE<br>1 2 3 4 5 6 7                                             | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|---------------------------------------------------------------------------|-------------|--------------------|
| 1101C-                   | 65C35694-1   |                           | AUXILIARY POWER UNIT ASSY<br>(GARRETT GTCP36-280) (PRE SB<br>737-49-1117) | A           | RF                 |
|                          | 65-50901-98  |                           | ENGINE ASSY (GARRET GTCP 85-1295)<br>(POST SB 737-49-1117)                | B           | RF                 |
| 5                        | BACC10HS-()  |                           | . CLAMP                                                                   | A           | 1                  |
| 5A                       | BACC10HS-()  |                           | . CLAMP                                                                   | A           | 2                  |
| 5B                       | BACC10HS-()  |                           | . CLAMP                                                                   | A           | 1                  |
| 5C                       | BACC10HS-()  |                           | . CLAMP                                                                   | A           | 1                  |
| 10                       | *[1]         |                           | . NUT - GENERATOR                                                         | A           | 6                  |
| 15                       | *[1]         |                           | . WASHER - GENERATOR                                                      | A           | 6                  |
| 20                       | *[1]         |                           | . NUT - GENERATOR                                                         | A           | 4                  |
| 25                       | *[1]         |                           | . WASHER - GENERATOR                                                      | A           | 4                  |
| 30                       | MS21042L3    |                           | . NUT                                                                     | A           | 3                  |
| 35                       | NAS1106-3    |                           | . BOLT                                                                    | A           | 3                  |
| 40                       | AN960-616    |                           | . WASHER                                                                  | A           | 3                  |
| 45                       | 61-30100-()  |                           | . WIRE BUNDLE *[2]                                                        | A           | 1                  |
| 50                       | NAS6703U8    |                           | . BOLT                                                                    | A           | 3                  |
| 55                       | AN960JD10L   |                           | . WASHER                                                                  | A           | 3                  |
| 60                       | 941D339-1    |                           | . TRANSFORMER, V83843 (SPEC<br>10-61224-5)                                |             | 1                  |
| 65                       | NAS6704U7    |                           | . BOLT                                                                    |             | 1                  |
| 70                       | AN960JD416   |                           | . WASHER                                                                  |             | 1                  |
| 75                       | NAS6704U5    |                           | . BOLT                                                                    |             | 1                  |
| 80                       | AN960JD416   |                           | . WASHER                                                                  |             | 1                  |
| 85                       | 69-37926-1   |                           | . MOUNT ASSY (OPT TO 69-37926-2)                                          | B           | 1                  |
| 85                       | 69-37926-2   |                           | . MOUNT ASSY - TRANSFORMER                                                |             | 1                  |
| 85                       | 69-37926-2   |                           | . MOUNT ASSY (OPT TO 69-37926-1)                                          | B           | 1                  |
| 90                       | MS20426-B3-4 |                           | . . RIVET                                                                 |             | 2                  |
| 95                       | BACN10PC3    |                           | . . NUTPLATE                                                              |             | 1                  |
| 100                      | MS20426-B4-4 |                           | . . RIVET                                                                 |             | 2                  |
| 105                      | BACN10MK3X45 |                           | . . NUTPLATE                                                              |             | 1                  |
| 110                      | MS20426-B3-4 |                           | . . RIVET                                                                 |             | 2                  |
| 115                      | BACN10JGF35  |                           | . . NUTPLATE                                                              |             | 1                  |
| 120                      | MS20426-B3-4 |                           | . . RIVET                                                                 |             | 4                  |
| 125                      | BACN10AM5A4  |                           | . . NUTPLATE                                                              |             | 2                  |
| 130                      | MS20470-B5-4 |                           | . . RIVET                                                                 |             | 3                  |
| 135                      | AN960D8L     |                           | . . WASHER                                                                |             | 3                  |
| 140                      | 69-45785-1   |                           | . . BUSS BAR                                                              |             | 1                  |
| 145                      | 69-45786-1   |                           | . . BRACKET - ZEE (U/O 69-37926-1)                                        |             | 1                  |
| 145                      | 69-45786-2   |                           | . . BRACKET - ZEE (U/O 69-37926-2)                                        |             | 1                  |
| 150                      | 69-45784-1   |                           | . . BRACKET (U/O 69-37926-1)                                              |             | 1                  |
| 150                      | 69-45784-2   |                           | . . BRACKET - ZEE (U/O 69-37926-2)                                        |             | 1                  |
| 155                      | *[3]         |                           | . V-BAND CLAMP                                                            | A           | 1                  |
| 160                      | *[3]         |                           | . GASKET - DUCT                                                           | A           | 1                  |
| 165                      | *[3]         |                           | . V-BAND CLAMP                                                            | A           | 1                  |
| 170                      | *[3]         |                           | . GASKET - DUCT                                                           | A           | 1                  |
| 175                      | NAS6704U11   |                           | . BOLT                                                                    | A           | 1                  |



| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE<br>1 2 3 4 5 6 7                         | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|-------------------------------------------------------|-------------|--------------------|
| 1101C-                   |               |                           |                                                       |             |                    |
| 180                      | AN960JD416    |                           | . WASHER                                              | A           | 1                  |
| 185                      | *[3]          |                           | . DUCT - COOLING AIR                                  | A           | 1                  |
| 190                      | BACB30LU3-1   |                           | . BOLT                                                |             | 6                  |
| 195                      | 65-50964-1    |                           | . BRACKET ASSY - COOLING AIR DUCT<br>SUPPORT          |             | 1                  |
| 200                      | MS20426-D3-3  |                           | . . RIVET                                             |             | 2                  |
| 205                      | NAS1068C4     |                           | . . NUTPLATE                                          |             | 1                  |
| 210                      | 65-50964-2    |                           | . . BRACKET                                           |             | 1                  |
| 215                      | 624AG5HD      |                           | . NUT                                                 |             | 12                 |
| 215                      | NAS1805-6     |                           | . NUT (OPT TO 624AG6HD)                               |             | 12                 |
| 220                      | 976J498-2     |                           | . GENERATOR - 40KVA, V83843 (SPEC<br>10-61224-12)     |             | 1                  |
| 225                      | 3800516-1     |                           | . AUXILIARY POWER UNIT, V99193 (SPEC<br>10-62199-201) | A           | 1                  |
| 225                      | 380428-11-1   |                           | . GAS TURBINE, V99193                                 | B           | 1                  |
|                          |               |                           | INSTALLATION PARTS                                    |             |                    |
| -230                     | 65-50902-3    |                           | . MOUNT INSTL                                         | B           | 1                  |
| 235                      | 65-50911-1    |                           | . . CAP-ENG                                           |             | 3                  |
| 240                      | 65-50912-3    |                           | . . MOUNT-ENG (LIMITED)                               |             | 1                  |
| 245                      | 65-50917-3    |                           | . . BRACKET (LIMITED)                                 |             | 1                  |
| 250                      | 65-50917-5    |                           | . . MOUNT-ENG-CASTING (LIMITED)<br>(OPT 65-50917-6)   |             | 1                  |
| 250                      | 65-50917-6    |                           | . . MOUNT-ENG-HOGOUT (LIMITED)<br>(OPT 65-50917-5)    |             | 1                  |
| 255                      | 65-50918-3    |                           | . . MOUNT-ENG (LIMITED)                               |             | 1                  |
| 260                      | 65-50918-5    |                           | . . MOUNT-ENG-CASTING (LIMITED)<br>(OPT 65-50918-6)   |             | 1                  |
| 260                      | 65-50918-6    |                           | . . MOUNT-ENG-HOGOUT (LIMITED)<br>(OPT 65-50918-5)    |             | 1                  |
| 265                      | 65-50912-5    |                           | . . BRACKET (LIMITED) (OPT 65-50912-<br>6)            |             | 1                  |
| 265                      | 65-50912-6    |                           | . . BRACKET (LIMITED) (OPT 65-50912-<br>5)            |             | 1                  |
| 270                      | AN320C3       |                           | . . NUT                                               |             | 3                  |
| 275                      | BACB30DM3-18D |                           | . . BOLT (OPT BACB30NL3DU18,<br>NAS6703DU18)          |             | 3                  |
| 275                      | NAS6703DU18   |                           | . . BOLT (OPT BACB30NL3DU18,<br>BACB30DM3-18D)        |             | 3                  |
| 275                      | BACB30NL3DU18 |                           | . . BOLT (OPT BACB30DM3-18D,<br>NAS6703DU18)          |             | 3                  |
| 280                      | BACB30LM6HU4  |                           | . . BOLT                                              |             | 4                  |
| 285                      | BACB30LM6HU6  |                           | . . BOLT                                              |             | 7                  |
| 290                      | BACB30KM6HU8  |                           | . . BOLT                                              |             | 1                  |
| 300                      | BACJ40E40-40  |                           | . . JUMPER                                            |             | 1                  |
| 305                      | BACW10BP6APU  |                           | . . WASHER                                            |             | 1                  |

65-50901 65C35424  
65-88936 65C35694



| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE<br>1 2 3 4 5 6 7                                                                      | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|----------------------------------------------------------------------------------------------------|-------------|--------------------|
| 1101C-                   |               |                           |                                                                                                    |             |                    |
| 310                      | MS24665-153   |                           | . . COTTER PIN                                                                                     |             | 3                  |
| 315                      | MS35338-138   |                           | . . LOCK WASHER                                                                                    |             | 3                  |
| 320                      | NAS1056C6-009 |                           | . . SPACER                                                                                         |             | 6                  |
| 325                      | AN960C10      |                           | . . WASHER                                                                                         |             | 6                  |
| 330                      | AN960C10L     |                           | . . WASHER                                                                                         |             | 8                  |
| 335                      | AN960C616     |                           | . . WASHER                                                                                         |             | 11                 |
| -340                     | 65-50993-6    |                           | . BAFFLE INSTL (LIMITED) (65-50993-7<br>CAN REPLACE OR BE REPLACED<br>BY 65-50993-1 OR 65-50993-6) | B           | 1                  |
| -340                     | 65-50993-7    |                           | . BAFFLE INSTL (LIMITED) (65-50993-7<br>CAN REPLACE OR BE REPLACED<br>BY 65-50993-1 OR 65-50993-7) | B           | 1                  |
| -345                     | 65-50993-2    |                           | . . SEAL RING                                                                                      |             | 1                  |
| -350                     | 65-50993-3    |                           | . . RETAINER RING                                                                                  |             | 1                  |
| -355                     | 65-50993-4    |                           | . . SPACER RING                                                                                    |             | 1                  |
| -360                     | 65-50993-5    |                           | . . RETAINER STRAP                                                                                 |             | 1                  |
| -365                     | BACB30LJ3U2   |                           | . . BOLT                                                                                           |             | 18                 |
| -370                     | BACB30LJ3U3   |                           | . . BOLT                                                                                           |             | 9                  |
| -375                     | CEP19339      |                           | . . SEAL BAFFLE (OPT CEP4571A,<br>CEP5980A) (U/O 65-50993-6)                                       |             | 1                  |
| 375                      | CEP4571A      |                           | . . SEAL BAFFLE (OPT CEP19339,<br>CEP5980A) (U/O 65-50993-6)                                       |             | 1                  |
| -375                     | CEP5980A      |                           | . . SEAL BAFFLE (OPT CEP4571A,<br>CEP19339) (U/O 65-50993-6)                                       |             | 1                  |
| -375                     | CEP19350      |                           | . . SEAL BAFFLE (U/O 65-50993-7)                                                                   |             | 1                  |
| -380                     | NAS1067C3     |                           | . . NUTPLATE                                                                                       |             | 9                  |
| -385                     | 65-59388-6    |                           | . SPRING ASSY (OPT 65-59388-8)                                                                     | B           | 1                  |
| -385                     | 65-59388-8    |                           | . SPRING ASSY (OPT 65-59388-6)                                                                     | B           | 1                  |
| -385A                    | 65-59388-7    |                           | . . SPRING (U/O 65-59388-6)                                                                        |             | 1                  |
| -385A                    | 65-59388-9    |                           | . . SPRING (U/O 65-59388-8)                                                                        |             | 1                  |
| -390                     | 69-47583-1    |                           | . . PIN                                                                                            |             | 3                  |
| -395                     | 65-62580-2    |                           | . STAND ASSY-WELDED                                                                                | B           | 1                  |
| -400                     | 65-62588-2    |                           | . INDICATOR INSTL                                                                                  | B           | 1                  |
| -405                     | 65-62588-3    |                           | . . BRACKET                                                                                        |             | 1                  |
| -410                     | 69-69875-1    |                           | . . BACKUP RING (LIMITED)                                                                          |             | 1                  |
| -415                     | BACC10GE12    |                           | . . CLAMP                                                                                          |             | 2                  |
| -420                     | BACC10GE4     |                           | . . CLAMP                                                                                          |             | 2                  |
| -425                     | BACP11P325    |                           | . . GASKET (LIMITED)                                                                               |             | 1                  |
| -430                     | F74832        |                           | . . FLOAT SWITCH (OPT 274832-00)                                                                   |             | 1                  |
| -430                     | 274832-00     |                           | . . FLOAT SWITCH (OPT F74832)                                                                      |             | 1                  |
| -435                     | F74832-2      |                           | . . FLOAT SWITCH ASSY (OPT F74832<br>PLUS S9046-5-9 PLUS<br>MS24264R14B7P) (OPT<br>274832-02)      |             | 1                  |

| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE<br>1 2 3 4 5 6 7                                                                | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|----------------------------------------------------------------------------------------------|-------------|--------------------|
| 1101C-<br>-435           | 274832-02     |                           | . . FLOAT SWITCH ASSY (OPT<br>274832-00 PLUS S9046-5-9 PLUS<br>MS24264R14B7P) (OPT F74832-2) |             | 1                  |
| -440                     | MS24264R14B7P |                           | . . RECEPTACLE                                                                               |             | 1                  |
| -445                     | M83248-1-222  |                           | . . O-RING (LIMITED) (OPT<br>M83248-1-222)                                                   |             | 1                  |
| -445                     | S9413-222     |                           | . . O-RING (LIMITED) (OPT S9413-222)                                                         |             | 1                  |
| -450                     | NAS1351C3H8   |                           | . . CAP SCREW                                                                                |             | 4                  |
| -455                     | NAS603-8      |                           | . . O-RING (LIMITED) (OPT S9413-222)                                                         |             | 2                  |
| -460                     | 65-66216-1    |                           | . FILTER INSTL                                                                               | B           | 1                  |
| -465                     | 65-66216-2    |                           | . . TUBE ASSY                                                                                |             | 1                  |
| -470                     | 1732945-01    |                           | . . FILTER, V90005 (BOEING 10-61801-1)                                                       |             | 1                  |
| -475                     | 69-50890-4    |                           | . . BRACKET                                                                                  |             | 1                  |
| -480                     | AN924-4C      |                           | . . NUT                                                                                      |             | 1                  |
| -485                     | AN924-6C      |                           | . . NUT                                                                                      |             | 2                  |
| -490                     | AN960C716     |                           | . . WASHER                                                                                   |             | 1                  |
| -495                     | BACC14AD06J   |                           | . . CAP ASSY                                                                                 |             | 1                  |
| -500                     | MS21909J6     |                           | . . TEE FITTING                                                                              |             | 1                  |
| -505                     | MS21923-4C    |                           | . . FITTING (OPT MS2194-4J)                                                                  |             | 1                  |
| -510                     | MS21924-4J    |                           | . . FITTING (OPT MS21923-4C)                                                                 |             | 1                  |
| -515                     | MS21923-6C    |                           | . . FITTING (OPT MS21909J6 PLUS<br>BACC14AD06J)                                              |             | 1                  |
| -520                     | MS21926-6C    |                           | . . ELBOW (OPT MS21909J6 PLUS<br>BACC14AD06J)                                                |             | 1                  |
| -525                     | MS29512-04    |                           | . . O-RING                                                                                   |             | 1                  |
| -530                     | MS29512-06    |                           | . . O-RING                                                                                   |             | 3                  |
| -535                     | NAS1104-26    |                           | . . BOLT                                                                                     |             | 1                  |
| -535A                    | NAS679C4W     |                           | . . NUT                                                                                      |             | 1                  |
| -535B                    | AN960C416L    |                           | . . WASHER                                                                                   |             | AR                 |
| -540                     | 69-39494-1    |                           | . SEAL (OPT 3883411-1)                                                                       | B           | 1                  |
| -540                     | 3883411-1     |                           | . SEAL (OPT 69-39494-1)                                                                      | B           | 1                  |
| -545                     | 69-47582-4    |                           | . CAP INSTL                                                                                  | B           | 1                  |
| -550                     | MS21042L3     |                           | . . NUT                                                                                      |             | 1                  |
| -555                     | NAS1149C332R  |                           | . . WASHER                                                                                   |             | 1                  |
| -560                     | NAS6603-1     |                           | . . BOLT                                                                                     |             | 1                  |
| -565                     | 417-1477      |                           | . . CAP ASSY                                                                                 |             | 1                  |
| -570                     | 69-50854-2    |                           | . BRACKET ASSY                                                                               | B           | 1                  |
| -575                     | 69-50854-3    |                           | . . BRACKET                                                                                  |             | 1                  |
| -580                     | 69-50854-4    |                           | . . DOUBLER                                                                                  |             | 2                  |
| -585                     | 69-55136-1    |                           | . SEAL ASSY (OPT 69-55136-4)                                                                 | B           | 1                  |
| -585                     | 69-55136-4    |                           | . SEAL ASSY (OPT 69-55136-1)                                                                 | B           | 1                  |
| -590                     | 69-55142-2    |                           | . SEAL, FILLED                                                                               | B           | 2                  |
| -595                     | AN3-11A       |                           | . BOLT                                                                                       | B           | 4                  |
| -600                     | BACB30LJ3U3   |                           | . BOLT                                                                                       | B           | 6                  |
| -605                     | MS27253C1     |                           | . PLATE IDENTIFICATION                                                                       | B           | 1                  |
| -610                     | NAS1149C0663R |                           | . WASHER                                                                                     | B           | 4                  |
| -615                     | NAS6706HU4    |                           | . BOLT                                                                                       | B           | 4                  |
| -620                     | S8157N1-220   |                           | . SPACER                                                                                     | B           | 1                  |

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| FIG.<br>&<br>ITEM<br>NO. | PART NO.    | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE                     |   |   |   |   |   |   | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|-------------|---------------------------|----------------------------------|---|---|---|---|---|---|-------------|--------------------|
|                          |             |                           | 1                                | 2 | 3 | 4 | 5 | 6 | 7 |             |                    |
| 1101C-<br>800<br>800     | 65-66207-23 |                           | FIRE DETECTOR INSTL (FIG. 1102B) |   |   |   |   |   |   | A           | 1                  |
|                          | 65-66207-24 |                           | FIRE DETECTOR INSTL (FIG. 1102B) |   |   |   |   |   |   | A           | 1                  |

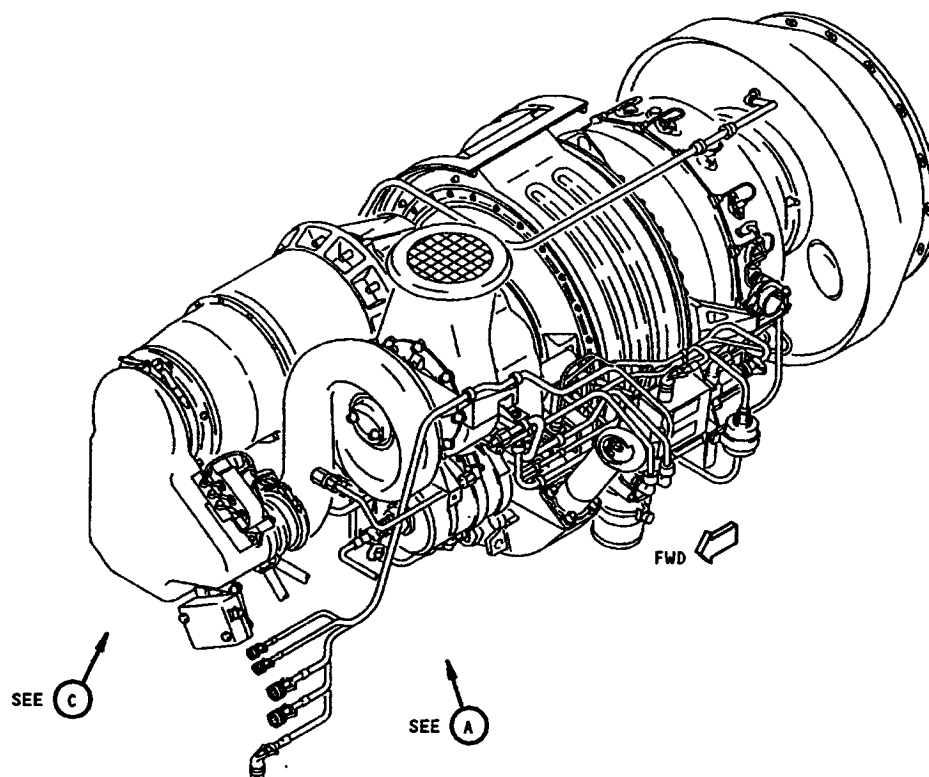
\*[1] PARTS SUPPLIED WITH GENERATOR (220), REFER TO APPLICABLE VENDOR FOR INFORMATION.

\*[2] LIMITED USAGE.

\*[3] PARTS SUPPLIED WITH APU (225), REFER TO APPLICABLE VENDOR FOR INFORMATION.

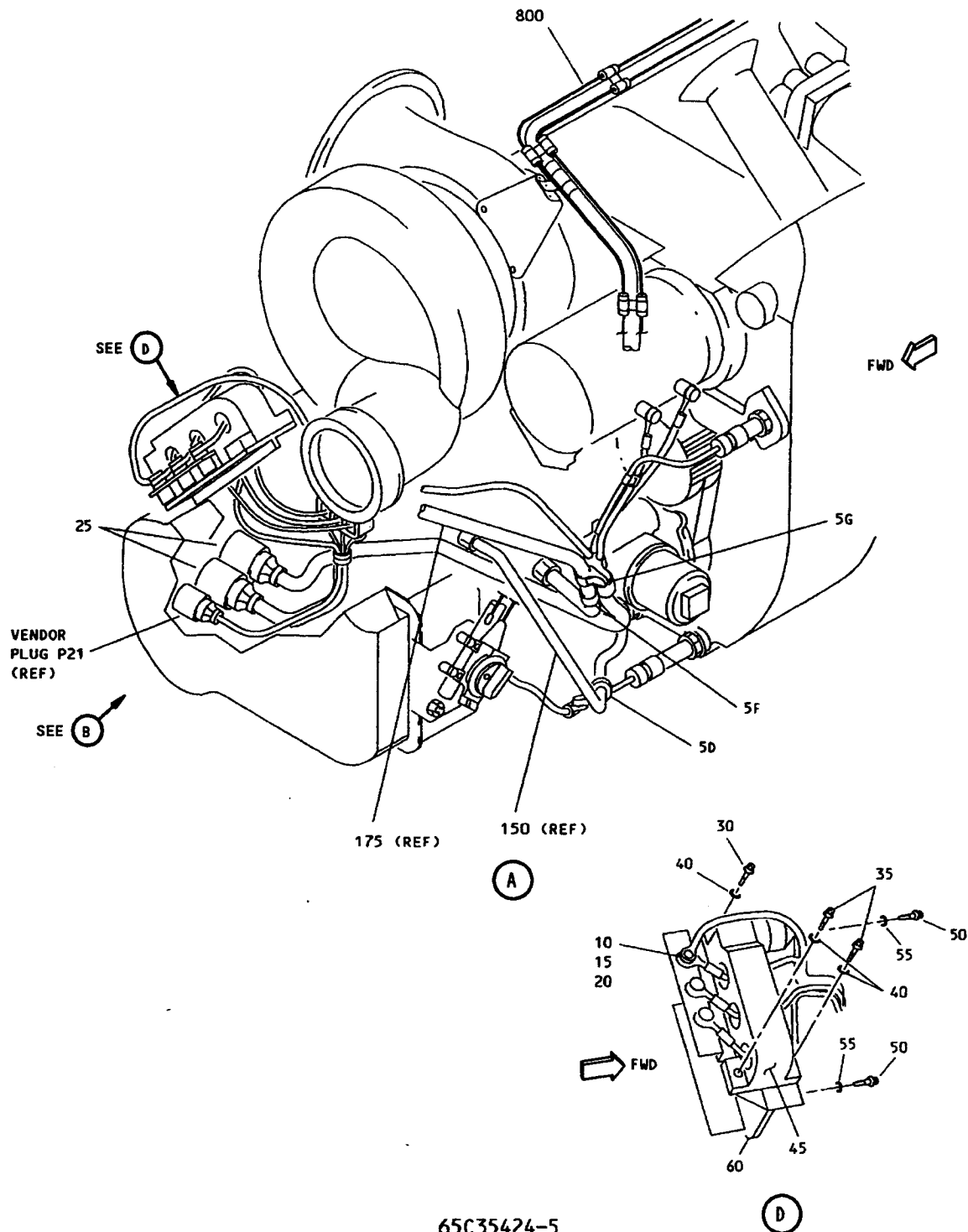
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 **BOEING**  
OVERHAUL MANUAL



65C35424-5

Auxiliary Power Unit Assembly  
Figure 1101D (Sheet 1)

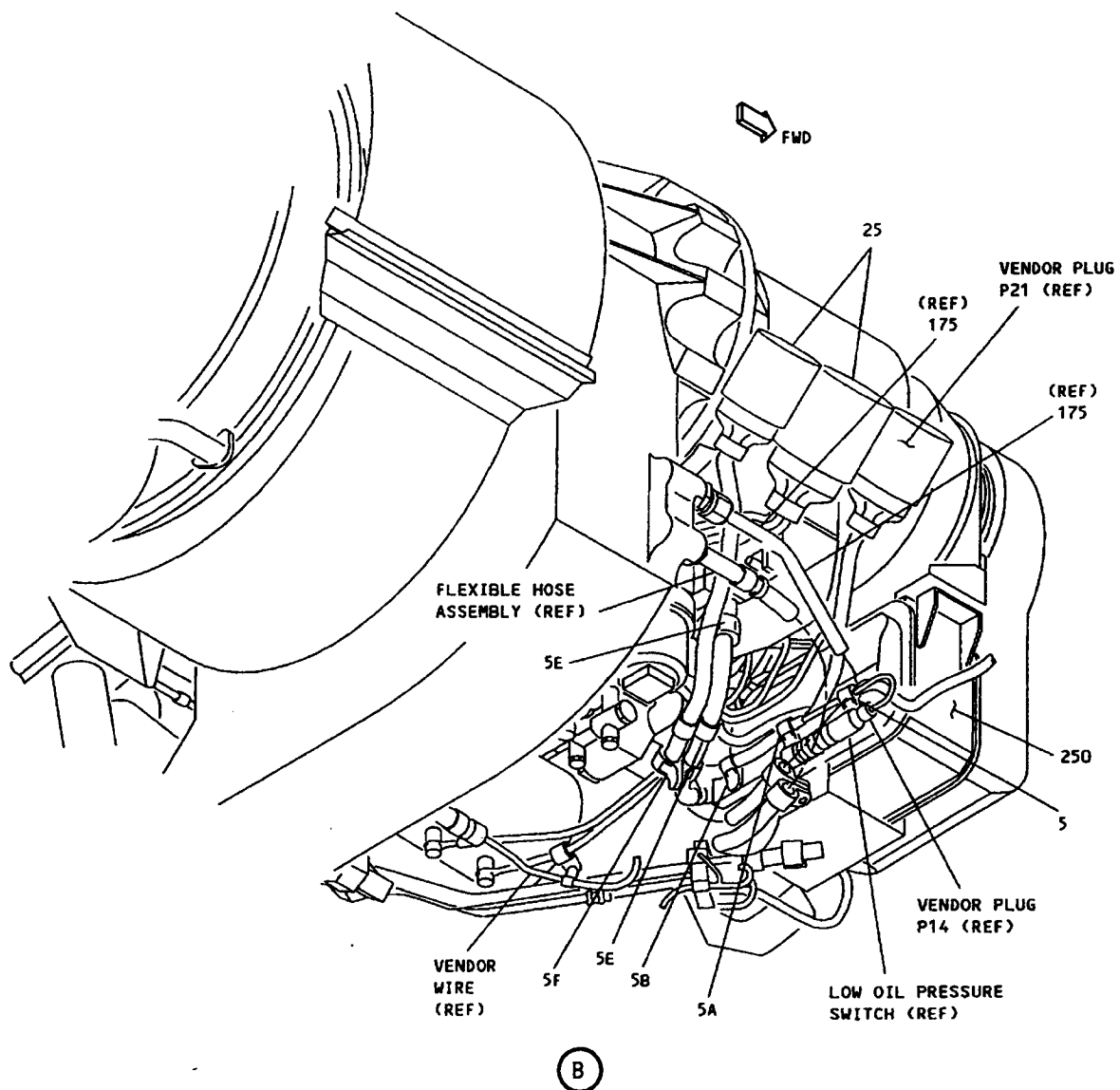


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Auxiliary Power Unit Assembly  
Figure 1101D (Sheet 2)

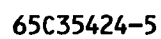
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**BOEING**  
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65C35424-5

Auxiliary Power Unit Assembly  
Figure 1101D (Sheet 3)



Ⓔ



| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE                                       |                                          |   |   |   |   |   | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|----------------------------------------------------|------------------------------------------|---|---|---|---|---|-------------|--------------------|
|                          |              |                           | 1                                                  | 2                                        | 3 | 4 | 5 | 6 | 7 |             |                    |
| 1101D-                   | 65C35424-5   |                           | AUXILIARY POWER UNIT ASSY<br>(SUNDSTRAND APS 2000) |                                          |   |   |   |   |   | A           | RF                 |
| 5                        | BACC10HS-()  |                           | .                                                  | CLAMP                                    |   |   |   |   |   |             | 1                  |
| 5A                       | BACC10HS-()  |                           | .                                                  | CLAMP                                    |   |   |   |   |   |             | 1                  |
| 5B                       | BACC10HS-()  |                           | .                                                  | CLAMP                                    |   |   |   |   |   |             | 1                  |
| 5C                       | BACC10HS-()  |                           | .                                                  | CLAMP                                    |   |   |   |   |   |             | 1                  |
| 5D                       | BACC10HS-()  |                           | .                                                  | CLAMP                                    |   |   |   |   |   |             | 2                  |
| 5E                       | BACC10HS-()  |                           | .                                                  | CLAMP                                    |   |   |   |   |   |             | 2                  |
| 5F                       | BACC10HS-()  |                           | .                                                  | CLAMP                                    |   |   |   |   |   |             | 2                  |
| 5G                       | BACC10HS-()  |                           | .                                                  | CLAMP                                    |   |   |   |   |   |             | 2                  |
| 10                       | MS21042L3    |                           | .                                                  | NUT                                      |   |   |   |   |   |             | 3                  |
| 15                       | NAS1106-3    |                           | .                                                  | BOLT                                     |   |   |   |   |   |             | 3                  |
| 20                       | AN960-616    |                           | .                                                  | WASHER                                   |   |   |   |   |   |             | 3                  |
| 25                       | 61-30100-508 |                           | .                                                  | WIRE BUNDLE ASSY *[2] *[3]               |   |   |   |   |   |             | 1                  |
| 25                       | 61-30100-509 |                           | .                                                  | WIRE BUNDLE ASSY *[2] *[4]               |   |   |   |   |   |             | 1                  |
| 30                       | NAS6703U7    |                           | .                                                  | BOLT                                     |   |   |   |   |   |             | 1                  |
| 35                       | NAS6703U8    |                           | .                                                  | BOLT                                     |   |   |   |   |   |             | 2                  |
| 40                       | AN960C10     |                           | .                                                  | WASHER                                   |   |   |   |   |   |             | 3                  |
| 45                       | 941D339-1    |                           | .                                                  | TRANSFORMER, V83843<br>(SPEC 10-61224-5) |   |   |   |   |   |             | 1                  |
| 50                       | NAS6704U4    |                           | .                                                  | BOLT                                     |   |   |   |   |   |             | 2                  |
| 53                       | NAS6704U2    |                           | .                                                  | BOLT                                     |   |   |   |   |   |             | 2                  |
| 55                       | AN960C416    |                           | .                                                  | WASHER                                   |   |   |   |   |   |             | 2                  |
| 60                       | 69-37926-2   |                           | .                                                  | MOUNT ASSY - TRANSFORMER                 |   |   |   |   |   |             | 1                  |
| -61                      | MS20426-B3-4 |                           | .                                                  | RIVET                                    |   |   |   |   |   |             | 2                  |
| -61F                     | BACN10PC3    |                           | .                                                  | NUTPLATE                                 |   |   |   |   |   |             | 1                  |
| -61J                     | MS20426-B4-4 |                           | .                                                  | RIVET                                    |   |   |   |   |   |             | 2                  |
| -61N                     | BACN10MK3X45 |                           | .                                                  | NUTPLATE                                 |   |   |   |   |   |             | 1                  |
| -62                      | MS20426-B3-4 |                           | .                                                  | RIVET                                    |   |   |   |   |   |             | 2                  |
| -62F                     | BACN10LGF35  |                           | .                                                  | NUTPLATE                                 |   |   |   |   |   |             | 1                  |
| -62J                     | MS20426-B3-4 |                           | .                                                  | RIVET                                    |   |   |   |   |   |             | 4                  |
| -62N                     | BACN10AM5A4  |                           | .                                                  | NUTPLATE                                 |   |   |   |   |   |             | 2                  |
| -63                      | MS20470-B5-4 |                           | .                                                  | RIVET                                    |   |   |   |   |   |             | 3                  |
| -63F                     | AN960-D8L    |                           | .                                                  | WASHER                                   |   |   |   |   |   |             | 3                  |
| -63J                     | 69-45785-1   |                           | .                                                  | BUSS BAR                                 |   |   |   |   |   |             | 1                  |
| -63N                     | 69-45786-1   |                           | .                                                  | BRACKET - ZEE                            |   |   |   |   |   |             | 1                  |
| -63T                     | 69-45784-1   |                           | .                                                  | BRACKET                                  |   |   |   |   |   |             | 1                  |

- ITEM NOT ILLUSTRATED

| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE<br>1 2 3 4 5 6 7                              | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|------------------------------------------------------------|-------------|--------------------|
| 1101D-<br>-65            | 170101-106C  |                           | . AUXILIARY POWER UNIT ASSY, V55820<br>(SPEC 10-62199-110) | A           | 1                  |
| 70                       | NAS1758L3    |                           | . NUT, V55820 *[1]                                         |             | 2                  |
| 75                       | AN960C10L    |                           | . WASHER, V55820 *[1]                                      |             | 2                  |
| 80                       | 170079-( )   |                           | . MONITOR UNIT - EVENT, V55820 *[1]                        |             | 1                  |
| 85                       | MS9556-06    |                           | . BOLT, V55820 *[1]                                        |             | 2                  |
| 90                       | AN960C10L    |                           | . WASHER, V55820 *[1]                                      |             | 2                  |
| 95                       | 170239-101   |                           | . BRACKET ASSY, V55820 *[1]                                |             | 1                  |
| 100                      | MS20426A3-4  |                           | . . RIVET, V55820 *[1]                                     |             | 4                  |
| 105                      | MS21060L3    |                           | . . NUTPLATE, V55820 *[1]                                  |             | 2                  |
| 110                      | 170239-2     |                           | . . BRACKET, V55820 *[1]                                   |             | 1                  |
| 115                      | 179501       |                           | . CLAMP - V-BAND, V55820 *[1]                              |             | 1                  |
| 120                      | 179503       |                           | . CLAMP - V-BAND, V55820 *[1]                              |             | 1                  |
| 125                      | 170110-100   |                           | . DUCT ASSY - FAN ADAPTOR, V55820<br>*[1]                  |             | 1                  |
| 130                      | AN6289J8     |                           | . NUT, V55820 *[1]                                         |             | 1                  |
| 135                      | MS28773-08   |                           | . RETAINER, V55820 *[1]                                    |             | 1                  |
| 140                      | M83248-1-908 |                           | . PACKING - PREFORMED, V55820 *[1]                         |             | 2                  |
| 145                      | MS21908J8    |                           | . ELBOW, V55820 *[1]                                       |             | 1                  |
| 150                      | 170146-102   |                           | . TUBE ASSY, V55820 *[1]                                   |             | 1                  |
| 155                      | AN6289J8     |                           | . NUT, V55820 *[1]                                         |             | 1                  |
| 160                      | MS28773-08   |                           | . RETAINER, V55820 *[1]                                    |             | 1                  |
| 165                      | M83248-1-908 |                           | . PACKING - PREFORMED, V55820 *[1]                         |             | 2                  |
| 170                      | 170351-1     |                           | . ELBOW, V55820 *[1]                                       |             | 1                  |
| 180                      | NAS6603-20   |                           | . BOLT                                                     |             | 1                  |
| 185                      | AN960C10     |                           | . WASHER                                                   |             | 1                  |
| 190                      | NAS43HT3-34  |                           | . SPACER                                                   |             | 1                  |
| 195                      | MS9556-06    |                           | . BOLT, V55820 *[1]                                        |             | 1                  |
| 200                      | AN960C10L    |                           | . WASHER, V55820 *[1]                                      |             | 4                  |
| 205                      | NAS6603-25   |                           | . BOLT                                                     |             | 3                  |
| 210                      | NAS43HT3-80  |                           | . SPACER                                                   |             | 3                  |
| 213                      | 4500949      |                           | . BRACKET *[1]                                             |             | 1                  |
| 213A                     | MS21919WCJ12 |                           | . CLAMP *[1]                                               |             | 2                  |
| 213B                     | AN960C10L    |                           | . WASHER *[1]                                              |             | 2                  |
| 213C                     | MS9556-05    |                           | . BOLT *[1]                                                |             | 2                  |
| 215                      | 170111-3     |                           | . DUCT - EXHAUST COOLING AIR,<br>V55820 *[1]               |             | 1                  |
| 220                      | 170275-101   |                           | . BRACKET ASSY, V55820 *[1]                                |             | 1                  |
| -225                     | MS20426A3-4  |                           | . . RIVET, V55820 *[1]                                     |             | 10                 |
| -230                     | MS21060L3    |                           | . . NUTPLATE, V55820 *[1]                                  |             | 5                  |
| -235                     | 170275-2     |                           | . . BRACKET, V55820 *[1]                                   |             | 1                  |
| 240                      | MS9556-06    |                           | . BOLT, V55820 *[1]                                        |             | 4                  |

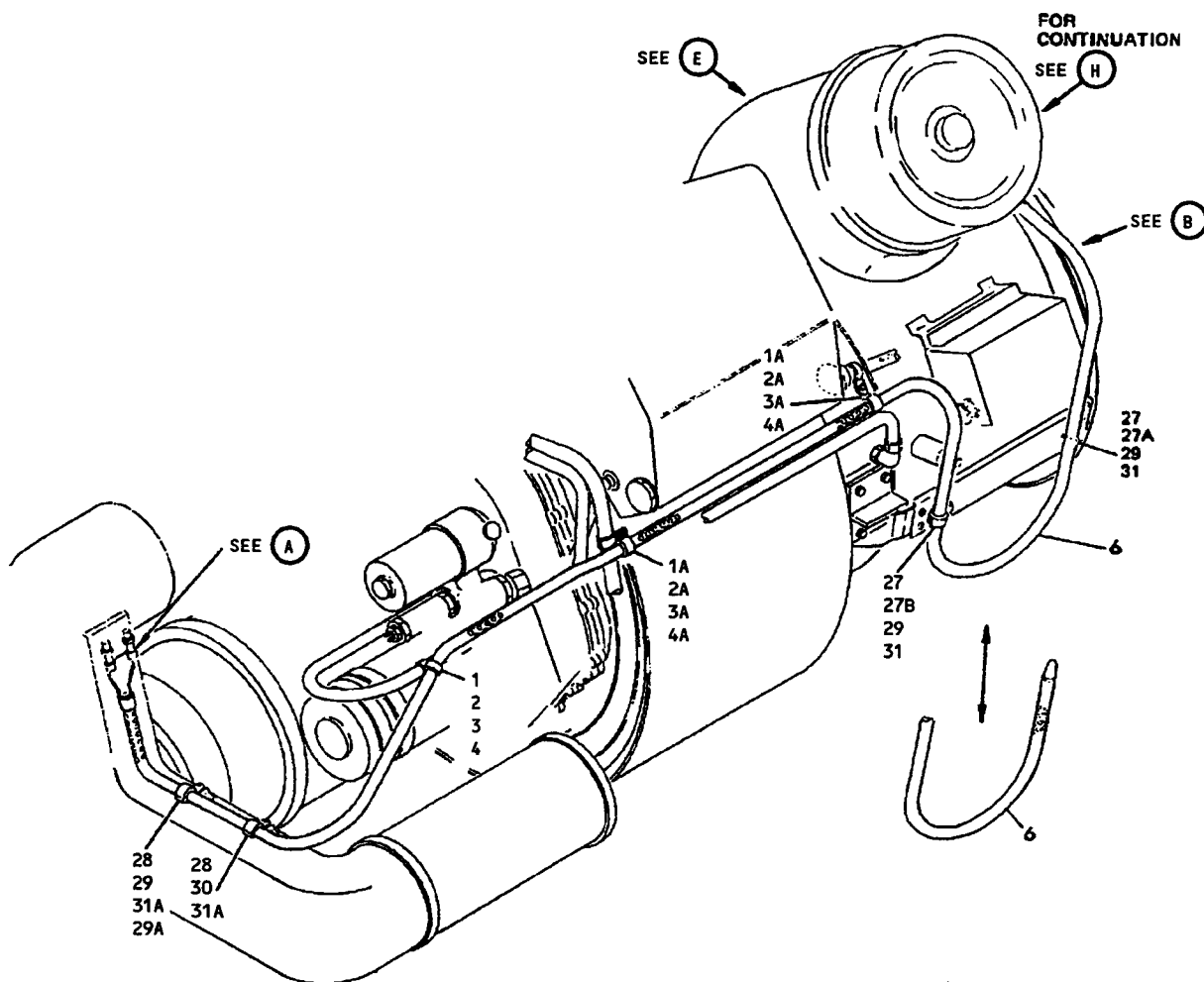
- ITEM NOT ILLUSTRATED

| FIG.<br>&<br>ITEM<br>NO.                                                                                                                                                    | PART NO.                                                                                                                                                                                                                                                                                            | AIRLINE<br>PART<br>NUMBER | NOMENCLATURE<br>1 2 3 4 5 6 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | USE<br>CODE | QTY<br>PER<br>ASSY                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1101D-<br>245<br>250<br>255<br>260<br>265<br>270<br>275<br>280<br>285<br>290<br>295<br>300<br>305<br>-310<br>-315<br>-320<br>-325<br>330<br>330<br>330<br>335<br>340<br>345 | AN960C10L<br>168661-3<br>MS9556-07<br>MS9556-08<br>MS9556-09<br>MS9556-06<br>AN960C10L<br>179500<br>170109-101<br>MS9489-05<br>AN960C10L<br>170161-1<br>170118-102<br>MS20426A3-5<br>MS21052L3K<br>MS21072L3<br>170118-4<br>170380-1<br>170380-2<br>170380-3<br>NAS1805-6<br>AN960C10L<br>976J498-2 |                           | <ul style="list-style-type: none"> <li>. WASHER, V55820 *[1]</li> <li>. COOLER - OIL, V55820 *[1]</li> <li>. BOLT, V55820 *[1]</li> <li>. BOLT, V55820 *[1]</li> <li>. BOLT, V55820 *[1]</li> <li>. BOLT, V55820 *[1]</li> <li>. WASHER, V55820 *[1]</li> <li>. CLAMP - V-BAND, V55820 *[1]</li> <li>. DUCT ASSY - COOLING AIR, V55820 *[1]</li> <li>. BOLT, V55820 *[1]</li> <li>. WASHER, V55820 *[1]</li> <li>. FLANGE - CLAMP, V55820 *[1]</li> <li>. BRACKET ASSY, V55820 *[1]</li> <li>. . RIVET, V55820 *[1]</li> <li>. . NUTPLATE, V55820 *[1]</li> <li>. . NUTPLATE, V55820 *[1]</li> <li>. . BRACKET, V55820 *[1]</li> <li>. SHIM, V55820 *[1]</li> <li>. SHIM, V55820 *[1]</li> <li>. SHIM, V55820 *[1]</li> <li>. NUT</li> <li>. WASHER, V55820 *[1]</li> <li>. GENERATOR-40 KVA, V83843<br/>(SPEC 10-61224-12)</li> </ul> |             | <ul style="list-style-type: none"> <li>4</li> <li>1</li> <li>3</li> <li>1</li> <li>1</li> <li>2</li> <li>7</li> <li>1</li> <li>1</li> <li>6</li> <li>6</li> <li>1</li> <li>1</li> <li>8</li> <li>2</li> <li>2</li> <li>1</li> <li>AR</li> <li>AR</li> <li>AR</li> <li>12</li> <li>12</li> <li>1</li> </ul> |
|                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                     |                           | INSTALLATION PARTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                            |
| 800<br>800<br>800<br>800                                                                                                                                                    | 65-66207-11<br>65-66207-12<br>65-66207-21<br>65-66207-22                                                                                                                                                                                                                                            |                           | FIRE DETECTOR INSTL (FIG. 1102)<br>FIRE DETECTOR INSTL (FIG. 1102)<br>FIRE DETECTOR INSTL (FIG. 1102A)<br>FIRE DETECTOR INSTL (FIG. 1102A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 1<br>1<br>1<br>1                                                                                                                                                                                                                                                                                           |

- \*[1] THE VENDOR OF THE AUXILIARY POWER UNIT ASSEMBLY SUPPLIES THESE PARTS WITH THE AUXILIARY POWER UNIT ASSEMBLY P/N 170101-106C.
- \*[2] LIMITED USAGE.
- \*[3] WIRE BUNDLE ASSEMBLY 61-30100-508 IS FULLY INTERCHANGEABLE WITH WIRE BUNDLE ASSEMBLY 61-30100-511.
- \*[4] WIRE BUNDLE ASSEMBLY 61-30100-509 IS FULLY INTERCHANGEABLE WITH WIRE BUNDLE ASSEMBLY 61-30100-512 AND ONE-WAY INTERCHANGEABLE WITH WIRE BUNDLE ASSEMBLIES 61-30100-508, 61-30100-511.
- \*[5] WIRE BUNDLE ASSEMBLY 61-30100-512 IS FULLY INTERCHANGEABLE WITH WIRE BUNDLE ASSEMBLY 61-30100-509 AND ONE-WAY INTERCHANGEABLE WITH WIRE BUNDLE ASSEMBLIES 61-30100-508, 61-30100-511.
- \*[6] WIRE BUNDLE ASSEMBLY 61-30100-511 IS FULLY INTERCHANGEABLE WITH WIRE BUNDLE ASSEMBLY 61-30100-508.

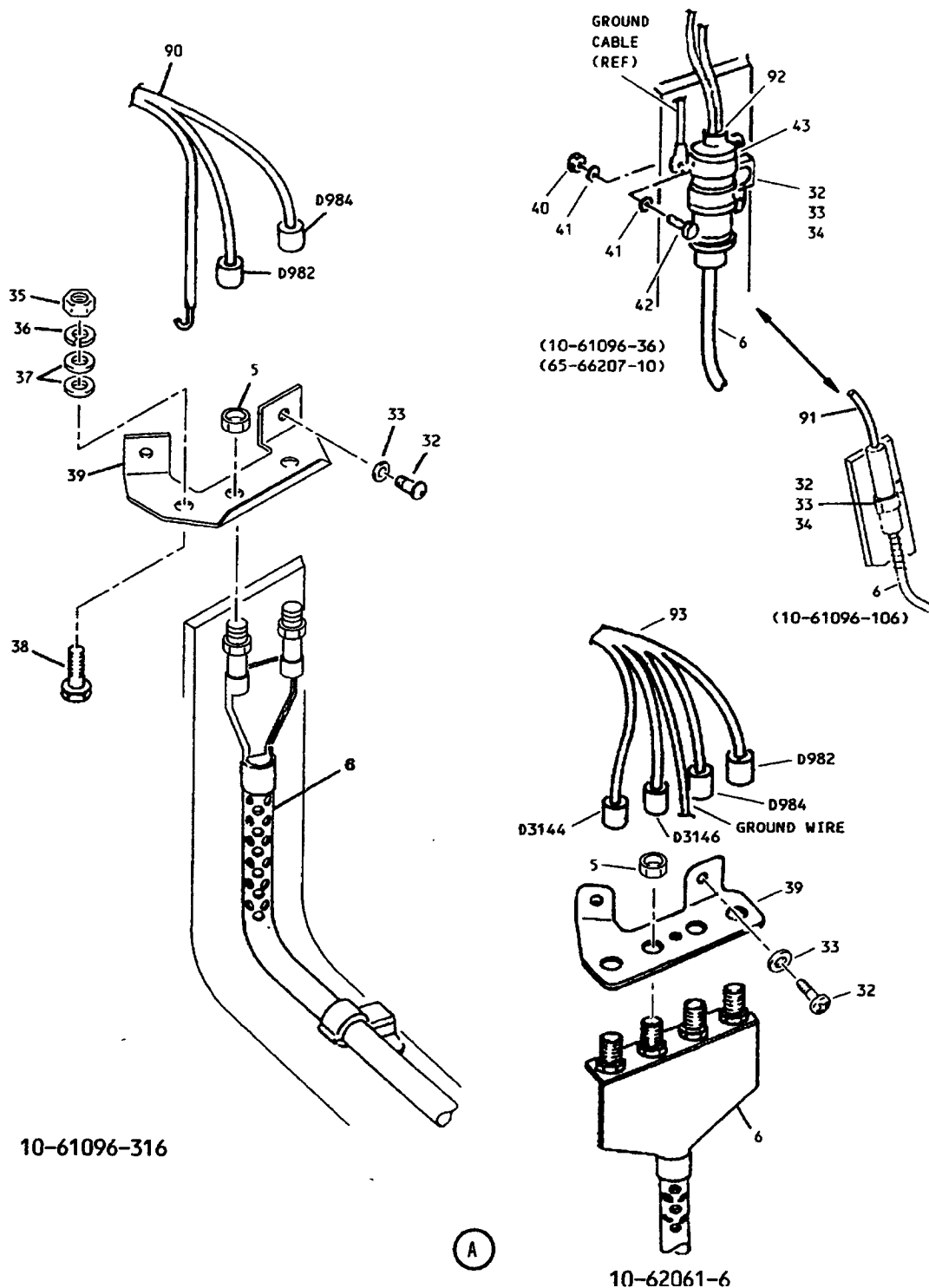
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65-88936  
65C35424  
65C35694

**BOEING**  
OVERHAUL MANUAL



65-66207-1 THRU -4,-10,-14,-17 THRU -20

Fire Detector Installation  
Figure 1102 ( Sheet 1)

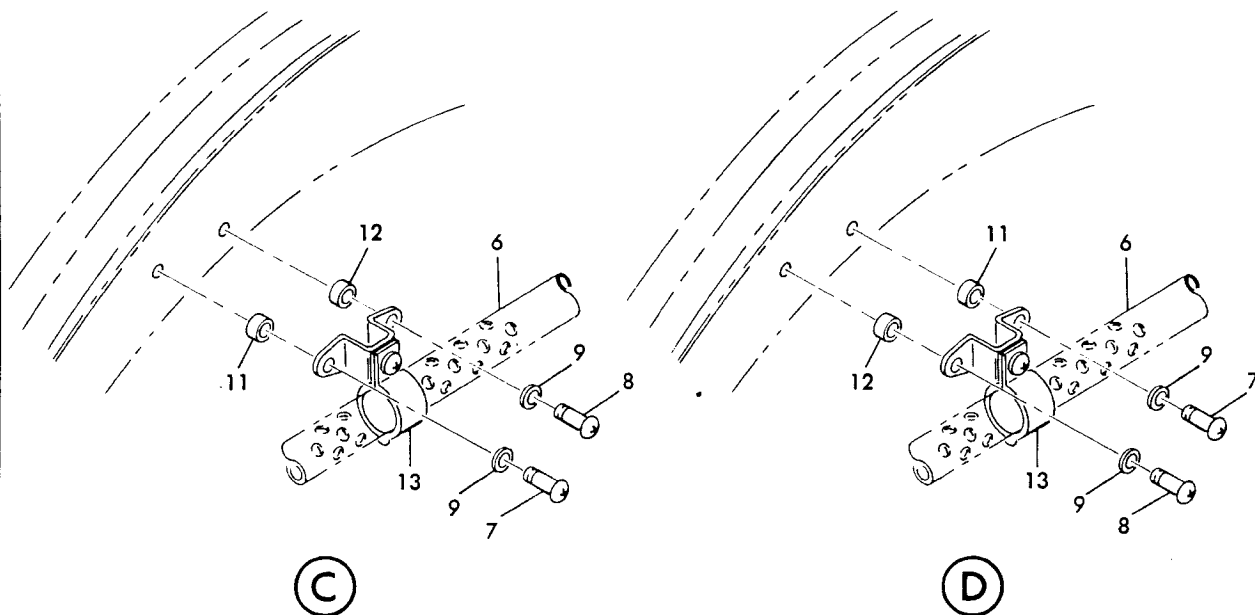
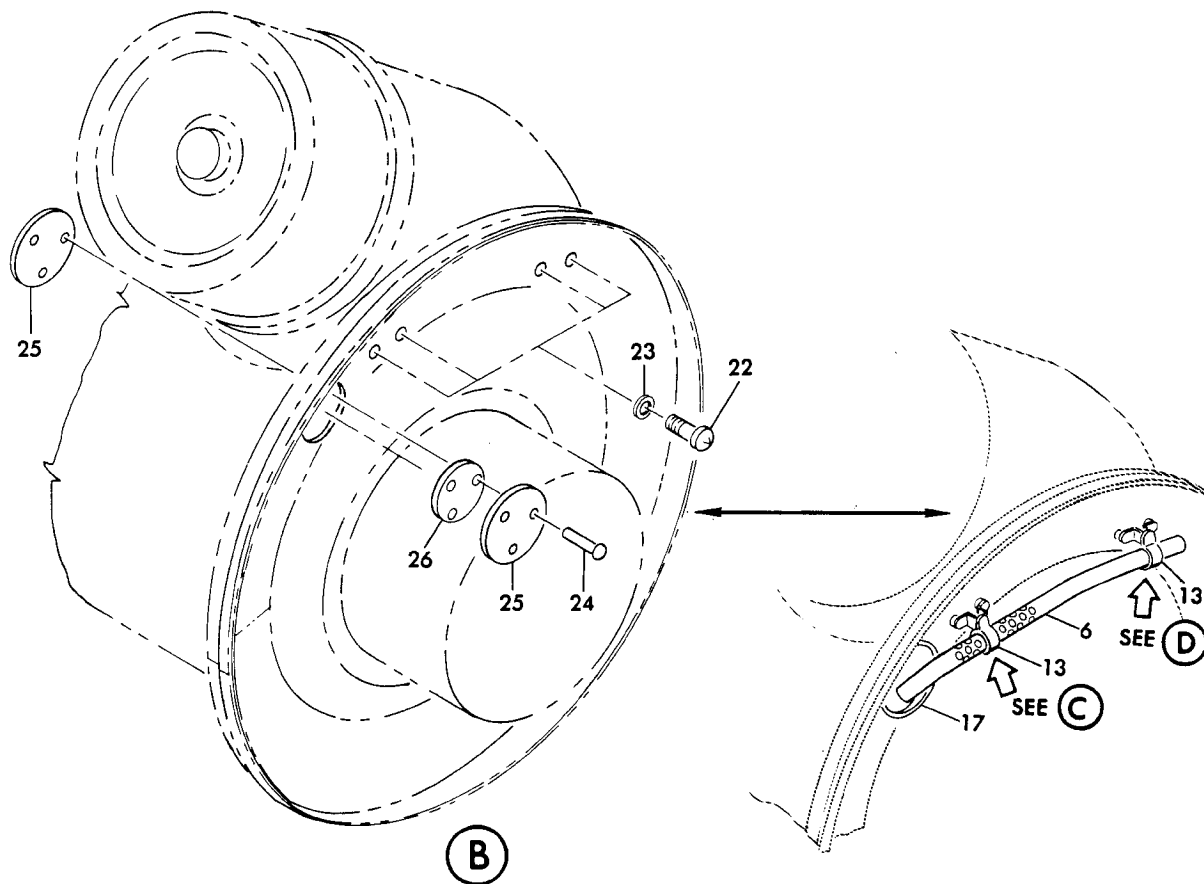


Fire Detector Installation  
Figure 1102 (Sheet 2)

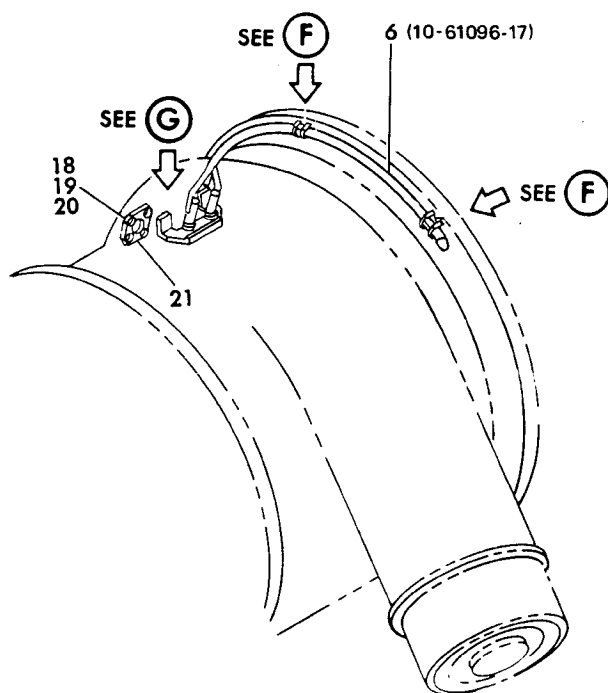
65-50901  
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**BOEING**  
**COMMERCIAL JET**

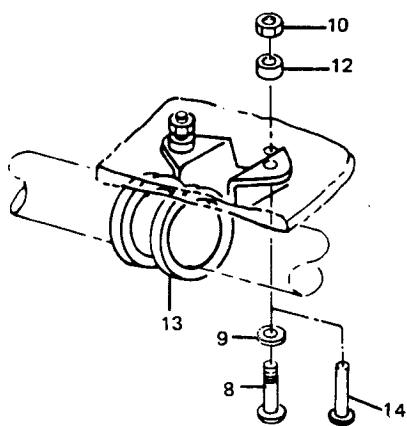
OVERHAUL MANUAL



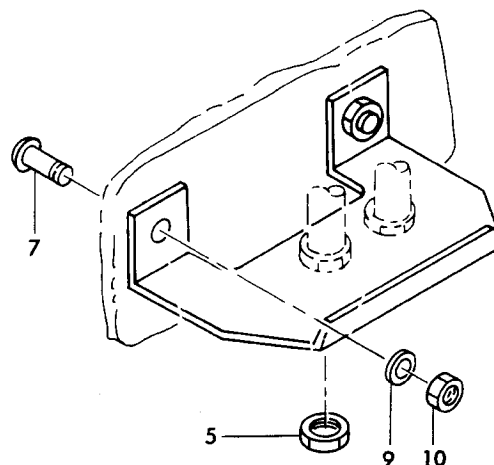
Fire Detector Installation  
Figure 1102 (Sheet 3)



(E)



(F)



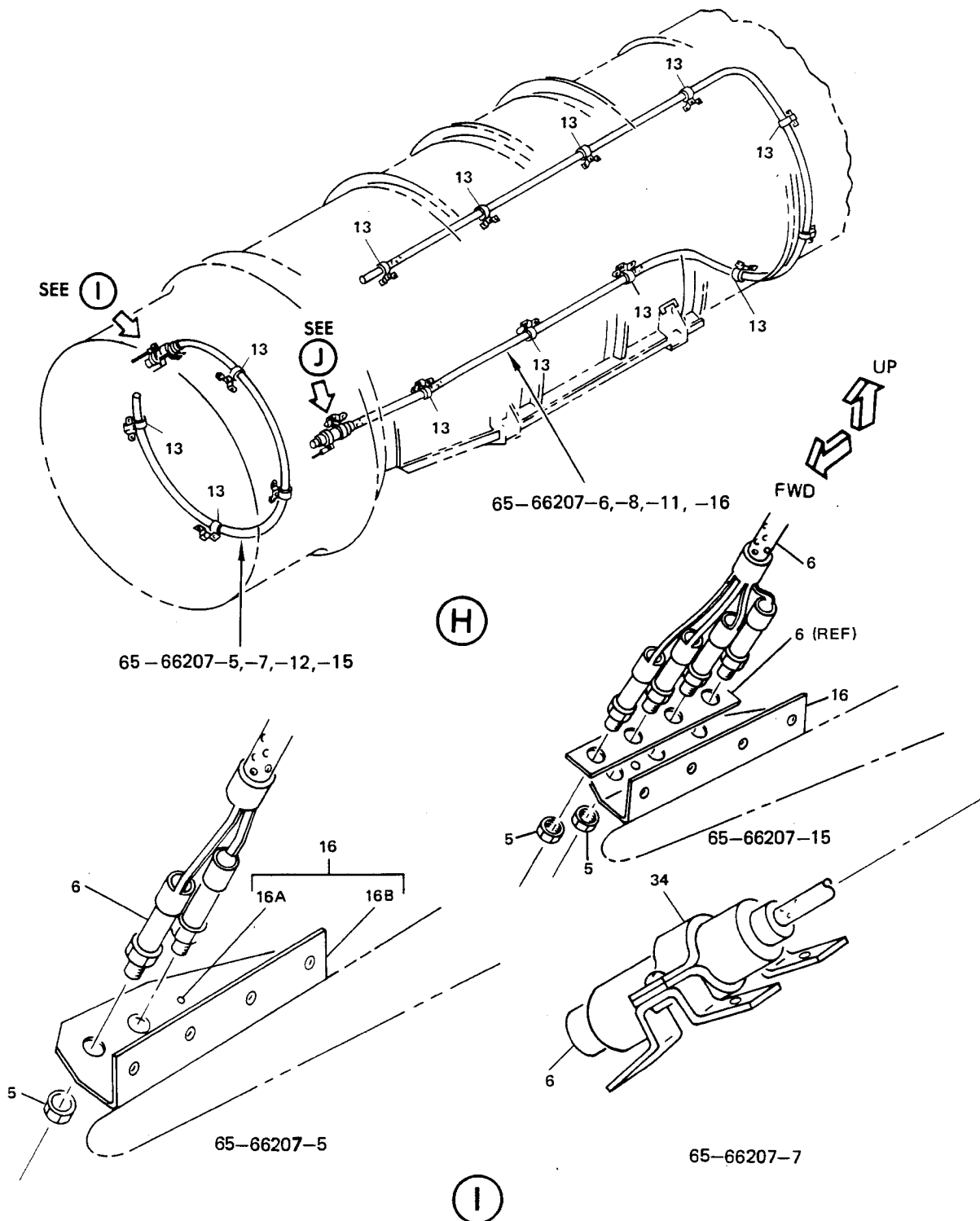
(G)

Fire Detector Installation  
Figure 1102 (Sheet 4)

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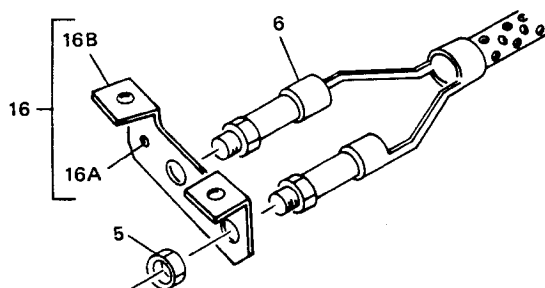
**BOEING**  
**COMMERCIAL JET**

# OVERHAUL MANUAL

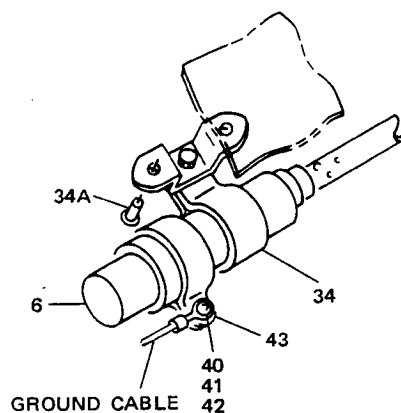


Fire Detector Installation  
Figure 1102 (Sheet 5)

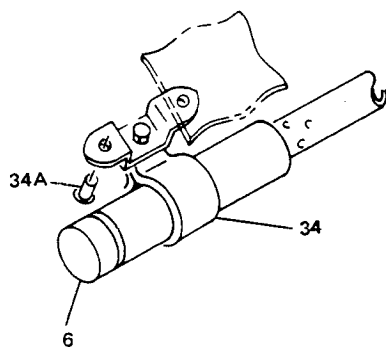




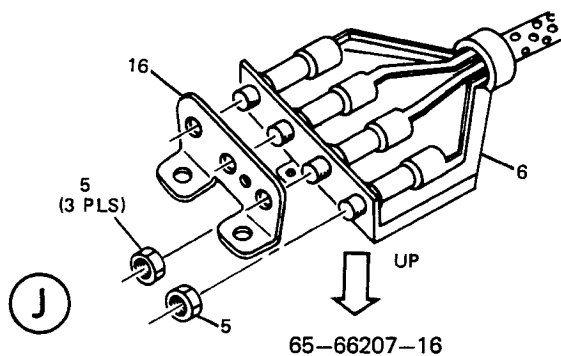
65-66207-6



65-66207-11,-12



65-66207-8



65-66207-16

Fire Detector Installation  
Figure 1102 (Sheet 6)

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**OVERHAUL MANUAL**

| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7 | USE<br>CODE     | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|------------------------------------------|-----------------|--------------------|
| 1102-                    | 65-66207-1    |                           | FIRE DETECTOR INSTL                      | A               | RF                 |
|                          | 65-66207-2    |                           | FIRE DETECTOR INSTL                      | B               | RF                 |
|                          | 65-66207-3    |                           | FIRE DETECTOR INSTL                      | C               | RF                 |
|                          | 65-66207-4    |                           | FIRE DETECTOR INSTL                      | D               | RF                 |
|                          | 65-66207-5    |                           | FIRE DETECTOR INSTL                      | E               | RF                 |
|                          | 65-66207-5001 |                           | FIRE DETECTOR INSTL                      | F               | RF                 |
|                          | 65-66207-5002 |                           | FIRE DETECTOR INSTL                      | G               | RF                 |
|                          | 65-66207-5003 |                           | FIRE DETECTOR INSTL                      | H               | RF                 |
|                          | 65-66207-6    |                           | FIRE DETECTOR INSTL                      | I               | RF                 |
|                          | 65-66207-7    |                           | FIRE DETECTOR INSTL                      | J               | RF                 |
|                          | 65-66207-8    |                           | FIRE DETECTOR INSTL                      | K               | RF                 |
|                          | 65-66207-10   |                           | FIRE DETECTOR INSTL                      | L               | RF                 |
|                          | 65-66207-11   |                           | FIRE DETECTOR INSTL                      | M               | RF                 |
|                          | 65-66207-12   |                           | FIRE DETECTOR INSTL                      | N               | RF                 |
|                          | 65-66207-14   |                           | FIRE DETECTOR INSTL                      | O               | RF                 |
|                          | 65-66207-15   |                           | FIRE DETECTOR INSTL                      | P               | RF                 |
|                          | 65-66207-16   |                           | FIRE DETECTOR INSTL                      | Q               | RF                 |
|                          | 65-66207-17   |                           | FIRE DETECTOR INSTL                      | R               | RF                 |
|                          | 65-66207-18   |                           | FIRE DETECTOR INSTL                      | S               | RF                 |
|                          | 65-66207-19   |                           | FIRE DETECTOR INSTL                      | T               | RF                 |
|                          | 65-66207-20   |                           | FIRE DETECTOR INSTL                      | U               | RF                 |
| 1                        | BACN10JC3     |                           | . NUT                                    | L               | 1                  |
| 1                        | NAS679A3W     |                           | . NUT                                    | ABCFGH<br>O     | 1                  |
| 1                        | MS21042L3     |                           | . NUT                                    | RSTU            | 1                  |
| 1A                       | BACN10JC3     |                           | . NUT                                    | ABCFGH<br>LOR-U | 2                  |
| 2                        | AN960-10L     |                           | . WASHER                                 | ABCFGH<br>OL    | 1                  |
| 2                        | AN960C10L     |                           | . WASHER                                 | RSTU            | 1                  |
| 3                        | NAS623-3-1    |                           | . SCREW                                  | ABCFGH<br>O     | 1                  |
| 3                        | BACB30NE3-2   |                           | . BOLT                                   | L               | 1                  |
| 3                        | NAS6603-24    |                           | . BOLT                                   | RSTU            | 1.                 |
| 3A                       | NAS623-3-1    |                           | . BOLT                                   | ABCFGH<br>ORU   | 2                  |
| 3A                       | BACB30NE3-2   |                           | . BOLT                                   | LST             | 2                  |
| 4                        | MS21919-H8    |                           | . CLAMP                                  | ABCFGH<br>OLR-U | 2                  |
| 4                        | 69-50873-1    |                           | . SUPPORT (OPT)                          | A               | 6                  |
| 4A                       | MS21919-H8    |                           | . CLAMP                                  | ABCFGH<br>LOR-U | 2                  |
| 5                        | 207865        |                           | . NUT, V33525                            | ACDEI           | 2                  |
| 5                        | 207865        |                           | . NUT, V33525                            | OPQ             | 4                  |

| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7                        | USE<br>CODE     | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|-----------------------------------------------------------------|-----------------|--------------------|
| 1102-6                   | 5403          |                           | . DETECTOR ASSY, V25693 (BOEING 10-61096-37)(POST SB 26-1025)   | M               | 1                  |
| 6                        | 5401          |                           | . DETECTOR ASSY, V25693 (BOEING 10-61096-39)(POST SB 26-1025)   | N               | 1                  |
| 6                        | 1703-775-12   |                           | . DETECTOR ASSY, V25693 (BOEING 10-61096-517)                   | J               | 1                  |
| 6                        | 1706          |                           | . DETECTOR ASSY, V25693 (BOEING 10-61096-106)                   | BFGH            | 1                  |
| 6                        | 1709-430-27   |                           | . DETECTOR ASSY, V25693 (BOEING 10-61096-317)                   | K               | 1                  |
| 6                        | 5402          |                           | . DETECTOR ASSY, V25693 (BOEING 10-61096-36)(PRE SB 26-1025)    | LST             | 1                  |
| 6                        | 5421-04       |                           | . DETECTOR ASSY, V25693 (BOEING 10-61096-36)(POST SB 26-1025)   | LST             | 1                  |
| 6                        | 894094        |                           | . DETECTOR ASSY, V33525 (BOEING 10-61096-116) (PRE SB 26-1003)  | A               | 1                  |
| 6                        | 894406        |                           | . DETECTOR ASSY, V33525 (BOEING 10-61096-17) (POST SB 26-1003)  | A               | 1                  |
| 6                        | 894406        |                           | . DETECTOR ASSY, V33525 (BOEING 10-61096-17)                    | D               | 1                  |
| 6                        | 894481        |                           | . DETECTOR ASSY, V33525 (BOEING 10-61096-316)(PRE SB 26-1025)   | CRU             | 1                  |
| 6                        | 894481        |                           | . DETECTOR ASSY, V33525 (BOEING 10-61096-316) (POST SB 26-1003) | A               | 1                  |
| 6                        | 896767        |                           | . DETECTOR ASSY, V33525 (BOEING 10-61096-417)(PRE SB 26-1025)   | E               | 1                  |
| 6                        | 896768        |                           | . DETECTOR ASSY, V33525 (BOEING 10-61096-217)(PRE SB 26-1025)   | I               | 1                  |
| 6                        | 10-62061-6    |                           | . FIRE DETECTOR, DUAL LOOP                                      | O               | 1                  |
| 6                        | 10-62061-7    |                           | . FIRE DETECTOR, DUAL LOOP                                      | P               | 1                  |
| 6                        | 10-62061-9    |                           | . FIRE DETECTOR, DUAL LOOP                                      | Q               | 1                  |
| 7                        | NAS623-3-4    |                           | . SCREW                                                         | ABCD FG<br>HORU | 2                  |
| 8                        | NAS623-3-5    |                           | . SCREW                                                         | ABCF GH<br>ORU  | 2                  |
| 8                        | NAS623-3-5    |                           | . SCREW                                                         | D               | 4                  |
| 9                        | AN960-10L     |                           | . WASHER                                                        | ABCF GH<br>ORU  | 4                  |
| 9                        | AN960-10L     |                           | . WASHER                                                        | D               | 6                  |
| 10                       | BACN10JC3     |                           | . NUT                                                           | D               | 6                  |
| 11                       | NAS1057W3-018 |                           | . SPACER                                                        | ABCF GH<br>ORU  | 2                  |
| 11                       | NAS1057T3-018 |                           | . SPACER (OPT)                                                  | ABCF GH<br>ORU  | 2                  |

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# OVERHAUL MANUAL

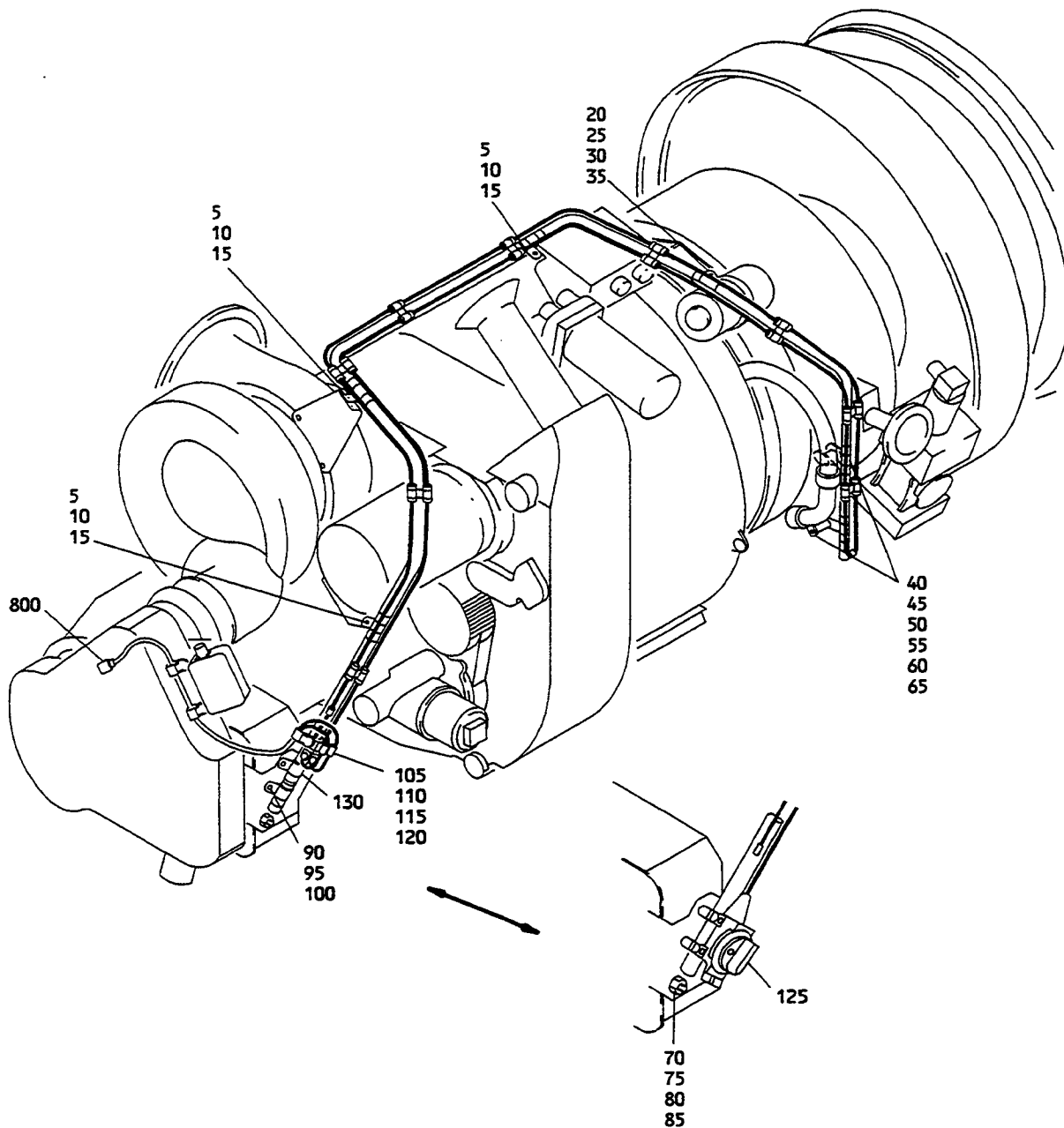
| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7 | USE<br>CODE     | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|------------------------------------------|-----------------|--------------------|
| 1102-12                  | NAS1057W3-038 |                           | . SPACER                                 | ABCD FG<br>HORU | 2                  |
| 12                       | NAS1057T3-038 |                           | . SPACER (OPT)                           | ABCD FG<br>HORU | 2                  |
| 13                       | TA5000BH08AT  |                           | . CLAMP, V84971                          | ABCD FG<br>HORU | 2                  |
| 13                       | TA5000BH08AT  |                           | . CLAMP, V84971                          | MQ              | 10                 |
| 13                       | TA5000BH08AT  |                           | . CLAMP, V84971                          | EJNP            | 4                  |
| 13                       | TA5000BH15AT  |                           | . CLAMP, V84971                          | H               | 1                  |
| 14                       | BACR15BB4     |                           | . RIVET                                  | D               | 2                  |
| 15                       | BACN10MKB45   |                           | . NUTPLATE                               | D               | 1                  |
| -15A                     | BACB30LM3U2   |                           | . BOLT                                   | E               | 1                  |
| -16                      | 69-56394-1    |                           | . BRACKET                                | D               | 1                  |
| 16                       | 69-67533-5    |                           | . BRACKET                                | P               | 1                  |
| 16                       | 69-67533-6    |                           | . BRACKET                                | Q               | 1                  |
| 16                       | 69-67533-1    |                           | . BRACKET ASSY                           | E               | 1                  |
| 16                       | 69-67533-2    |                           | . BRACKET ASSY                           | I               | 1                  |
| 16A                      | BACN10JP3CCM  |                           | . . NUTPLATE (USED ON 69-67533-1,-2)     |                 | 1                  |
| 16B                      | 69-67533-3    |                           | . . BRACKET (USED ON 69-67533-1)         |                 | 1                  |
| 16B                      | 69-67533-4    |                           | . . BRACKET (USED ON 69-67533-2)         |                 | 1                  |
| 17                       | 69-50878-1    |                           | . GROMMET                                | BFGH            | 1                  |
| 17                       | 69-50878-1    |                           | . GROMMET (PRE SB 26-1003)               | A               | 1                  |
| 18                       | BACN10JC04    |                           | . NUT                                    | BG              | 4                  |
| 19                       | AN960-4       |                           | . WASHER                                 | BG              | 4                  |
| 20                       | NAS600-5P     |                           | . SCREW                                  | BG              | 4                  |
| 21                       | 69-56395-1    |                           | . PLATE, RECEPTACLE COVER                | BG              | 1                  |
| 22                       | NAS623-3-2    |                           | . SCREW, HOLE PLUG                       | CHO             | 4                  |
| 22                       | NAS623-3-2    |                           | . SCREW, HOLE PLUG (POST SB 26-1003)     | A               | 4                  |
| 23                       | AN960-10L     |                           | . WASHER                                 | CHO             | 8                  |
| 23                       | AN960-10L     |                           | . WASHER (POST SB 26-1003)               | A               | 4                  |
| 24                       | MS20615-6M    |                           | . RIVET                                  | CHO             | 3                  |
| 25                       | 69-56393-1    |                           | . COVERPLATE                             | CO              | 2                  |
| 25                       | 69-56393-1    |                           | . COVERPLATE (POST SB 26-1003)           | A               | 2                  |
| 26                       | 69-56393-2    |                           | . SPACER (POST SB 26-1003)               | A               | 1                  |
| 26                       | 69-56393-2    |                           | . SPACER                                 | CO              | 1                  |
| 27                       | NAS623-3-1    |                           | . SCREW                                  | ABFGH           | 4                  |
| 27A                      | NAS603-10P    |                           | . SCREW                                  | LCO             | 2                  |
| 27B                      | NAS623-3-1    |                           | . SCREW                                  | LCO             | 2                  |
| 28                       | NAS623-3-4    |                           | . SCREW                                  | ABCFGH<br>LO    | 4                  |
| 29                       | AN960-10      |                           | . WASHER                                 | ABFG            | 6                  |
| 29                       | AN960-10L     |                           | . WASHER                                 | CHO             | 6                  |
| 29A                      | AN960-10      |                           | . WASHER                                 | L               | 2                  |
| 30                       | AN960-10L     |                           | . WASHER                                 | ABCE-H<br>LO    | 2                  |

- ITEMS NOT ILLUSTRATED

| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7 | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|------------------------------------------|-------------|--------------------|
| 1102-                    |              |                           |                                          |             |                    |
| 31                       | TA5000BH08AT |                           | . CLAMP, V84971                          | ABFGH       | 4                  |
| 31                       | TA12100004   |                           | . CLAMP, V84971                          | CLOR-U      | 2                  |
| 31A                      | TA5000BH08AT |                           | . CLAMP, V84971 (OPT TO TA12100004)      | ABFGH       | 2                  |
| 31A                      | TA12100004   |                           | . CLAMP, V84971 (OPT TO TA5000BH08AT)    | ABFGH       | 2                  |
| 31A                      | TA12100004   |                           | . CLAMP, V84971                          | CLOR-U      | 2                  |
| 32                       | NAS623-3-4   |                           | . SCREW                                  | ABCFGH      | 2                  |
|                          |              |                           |                                          | LOR-U       |                    |
| 33                       | AN960-10L    |                           | . WASHER                                 | ABCFGH      | 2                  |
|                          |              |                           |                                          | LOR-U       |                    |
| 34                       | TA5000BH14AT |                           | . CLAMP, V84971                          | JK          | 1                  |
| 34                       | TA5000BH15AT |                           | . CLAMP, V84971                          | BFGH        | 1                  |
| 34                       | TA5000BH16HB |                           | . CLAMP, V84971                          | LMN         | 1                  |
| 34A                      | NAS1398M6-2  |                           | . RIVET                                  | KM          | 2                  |
| 35                       | MS20341-10B  |                           | . NUT                                    | G           | 1                  |
| 35                       | MS20341-10B  |                           | . NUT (POST SB 26-1005)                  | A           | 1                  |
| 36                       | MS35338-43   |                           | . LOCKWASHER                             | CH          | 1                  |
| 36                       | MS35338-43   |                           | . LOCKWASHER (POST SB 26-1005)           | A           | 1                  |
| 37                       | AN960D10L    |                           | . WASHER                                 | CH          | 1                  |
| 37                       | AN960D10L    |                           | . WASHER (POST SB 26-1005)               | A           | 1                  |
| 38                       | BACS12CB3-10 |                           | . SCREW                                  | CH          | 1                  |
| 38                       | BACS12CB3-10 |                           | . SCREW (POST SB 26-1005)                | A           | 1                  |
| 39                       | 69-50882-2   |                           | . BRACKET                                | AC          | 1                  |
| 39                       | 69-50882-3   |                           | . BRACKET                                | O           | 1                  |
| 40                       | BACN10JC3C   |                           | . NUT                                    | LMN         | 1                  |
| 41                       | AN960C10L    |                           | . WASHER                                 | LMN         | 2                  |
| 42                       | NAS6703U3    |                           | . BOLT                                   | LMN         | 1                  |
| 43                       | 65-66207-13  |                           | . CLAMP                                  | LMN         | 1                  |
|                          |              |                           | INSTALLATION PARTS                       |             |                    |
| 90                       | 61-30446     |                           | WIRE BUNDLE *[1]                         | ACRU        |                    |
| 91                       | 61-30446     |                           | WIRE BUNDLE *[1]                         | BFGH        |                    |
| 92                       | 61-30446     |                           | WIRE BUNDLE *[1]                         | LST         |                    |
| 93                       | 61-30446     |                           | WIRE BUNDLE *[1]                         | O           |                    |

\*[1] FOR DETAILS SEE WIRING DIAGRAM MANUAL

1



Fire Detector Installation  
Figure 1102A

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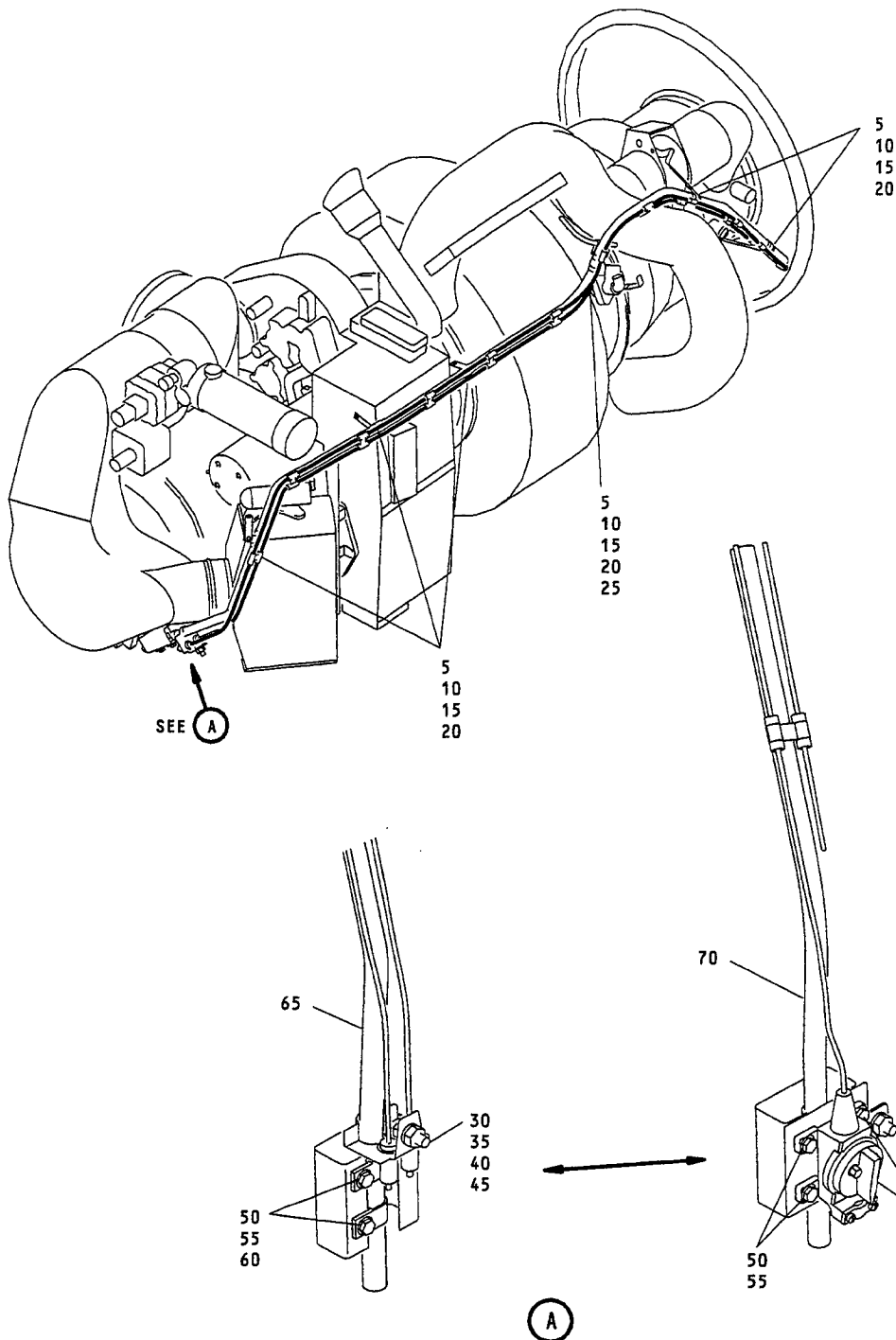


OVERHAUL MANUAL

| FIG.<br>&<br>ITEM<br>NO. | PART NO.      | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7      | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|---------------|---------------------------|-----------------------------------------------|-------------|--------------------|
| 1102A-                   | 65-66207-21   |                           | FIRE DETECTOR INSTL                           | A           | RF                 |
|                          | 65-66207-22   |                           | FIRE DETECTOR INSTL                           | B           | RF                 |
| 5                        | NAS1802-3-8   |                           | . BOLT                                        |             | 3                  |
| 10                       | AN960C10L     |                           | . WASHER                                      |             | 3                  |
| 15                       | BACC10GT3-08  |                           | . CLAMP                                       |             | 3                  |
| 20                       | NAS1802-3-16  |                           | . BOLT                                        |             | 1                  |
| 25                       | AN960C10L     |                           | . WASHER                                      |             | 1                  |
| 30                       | NAS43HT3-34   |                           | . SPACER                                      |             | 1                  |
| 35                       | BACC10GT3-08  |                           | . CLAMP                                       |             | 1                  |
| 40                       | BACN10JC3     |                           | . NUT                                         |             | 2                  |
| 45                       | AN960C10L     |                           | . WASHER                                      |             | 2                  |
| 50                       | NAS1802-3-15  |                           | . BOLT                                        |             | 2                  |
| 55                       | NAS43HT3-34   |                           | . SPACER                                      |             | 2                  |
| 60                       | BACC10GT3-08  |                           | . CLAMP                                       |             | 2                  |
| 65                       | BACC10GE11    |                           | . CLAMP                                       |             | 2                  |
| 70                       | MS35650-3255T |                           | . NUT                                         | A           | 1                  |
| 75                       | NAS1801-4-11  |                           | . SCREW                                       | A           | 1                  |
| 80                       | MS35338-44    |                           | . WASHER                                      | A           | 1                  |
| 85                       | AN960D416L    |                           | . WASHER                                      | A           | 2                  |
| 90                       | NAS1802-3-8   |                           | . BOLT                                        | B           | 2                  |
| 95                       | AN960C10L     |                           | . WASHER                                      | B           | 1                  |
| 100                      | BACC10GT3-08  |                           | . CLAMP                                       | B           | 1                  |
| 105                      | MS35650-3254  |                           | . NUT                                         | B           | 1                  |
| 110                      | MS35338-139   |                           | . WASHER                                      | B           | 1                  |
| 115                      | BACW10BP4APU  |                           | . WASHER                                      | B           | 2                  |
| 120                      | NAS1802-4-11  |                           | . SCREW                                       | B           | 1                  |
| 125                      | 900111        |                           | . FIRE DETECTOR, V25693 (SPEC<br>S332T100-20) | A           | 1                  |
| 130                      | 472619        |                           | . FIRE DETECTOR, V61423 (SPEC<br>S332T101-35) | B           | 1                  |
|                          |               |                           | INSTALLATION PARTS                            |             |                    |
| 800                      | 61-30446-( )  |                           | WIRE BUNDLE *[1]                              |             | 1                  |

\*[1] LIMITED USAGE

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Fire Detector Installation  
Figure 1102B



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65C35694

**BOEING**   
**COMMERCIAL JET**  
**OVERHAUL MANUAL**

| FIG.<br>&<br>ITEM<br>NO. | PART NO.     | AIRLINE<br>PART<br>NUMBER | N O M E N C L A T U R E<br>1 2 3 4 5 6 7      | USE<br>CODE | QTY<br>PER<br>ASSY |
|--------------------------|--------------|---------------------------|-----------------------------------------------|-------------|--------------------|
| 1102B-                   | 65-66207-23  |                           | FIRE DETECTOR INSTL                           | A           | RF                 |
|                          | 65-66207-24  |                           | FIRE DETECTOR INSTL                           | B           | RF                 |
| 5                        | BACN10YR04CM |                           | . NUT                                         |             | 6                  |
| 10                       | AN960C10L    |                           | . WASHER                                      |             | 6                  |
| 15                       | NAS1802-3-8  |                           | . BOLT                                        |             | 6                  |
| 20                       | BACC10GT3-08 |                           | . CLAMP                                       |             | 6                  |
| 25                       | BACC10HS-06  |                           | . CLAMP                                       |             | 1                  |
| 30                       | MS35650-3254 |                           | . NUT                                         |             | 1                  |
| 35                       | MS35338-139  |                           | . WASHER                                      |             | 1                  |
| 40                       | BACW10BP4APU |                           | . WASHER                                      |             | 2                  |
| 45                       | NAS1802-4-11 |                           | . BOLT                                        |             | 1                  |
| 50                       | NAS1802-3-8  |                           | . BOLT                                        | A           | 2                  |
| 50                       | *[1]         |                           | . BOLT                                        | B           | 4                  |
| 55                       | AN960C10L    |                           | . WASHER                                      | A           | 2                  |
| 55                       | *[1]         |                           | . WASHER                                      | B           | 4                  |
| 60                       | BACC10GT-08  |                           | . CLAMP                                       | A           | 2                  |
| 65                       | 472621       |                           | . FIRE DETECTOR, V61423 (SPEC<br>S332T101-36) | A           | 1                  |
| 70                       | 900113       |                           | . FIRE DETECTOR, V25693 (SPEC<br>S332T100-21) | B           | 1                  |
|                          |              |                           | INSTALLATION PARTS                            |             |                    |
| 800                      | 61-30446-( ) |                           | WIRE BUNDLE *[2]                              |             | 1                  |

\*[1] REMOVE AND REINSTALL BOLT (50) AND WASHER (55) SUPPLIED WITH FIRE DETECTOR (65). REMOVE SHIPPED NUT AND DISCARD.

\*[2] LIMITED USAGE.

VENDORS

V00624 AEROQUIP AEROSPACE DIV., JACKSON PLANT, 300 S. EAST AVE., JACKSON,  
MICHIGAN 49203

V06851 RESISTOFLEX CORPORATION, WESTERN DIVISION, 301 NORTH CRESCENT WAY,  
ANAHEIM, CALIFORNIA 92803

V14798 DEUTSCH CO., METAL COMPONENTS DIV., 14800 S. FIGUEROA ST.,  
GARDENA, CALIFORNIA 90061

V25693 SYSTRON-DONNER CORP, SAFETY SYSTEMS DIV., 1440 4TH ST., BERKELEY,  
CALIFORNIA 94710

V33525 WALTER KIDDE AND CO. INC., 675 MAIN ST., BELLEVILLE, NEW JERSEY  
07109

V50625 REVERE CORPORATION OF AMERICA, 845 N. COLONY ROAD, WALLINGFORD,  
CONNECTICUT 06492

V55767 AIRCRAFT VALVE MFG CO., 11229 S. PRAIRIE AVE., INGLEWOOD,  
CALIFORNIA 90303

V55820 SUNDSTRAND CORP., SUNDSTRAND POWER SYSTEM, 4400 RUFFIN ROAD,  
SAN DIEGO, CALIFORNIA 92123-1606

V78570 TITFLEX CORPORATION, SUB OF BUNDY CORPORATION, P.O. BOX 90054,  
603 HENDEE STREET, SPRINGFIELD, MASSACHUSETTS 01139

V81851 BENTLEY HARRIS MFG. CO., 241 WELSH POOL RD., LIONVILLE,  
PENNSYLVANIA 19353

V82831 REXNORD, INC., SPECIALTY FASTENER DIVISION, P. O. BOX 1970,  
3130 W. HARVARD ST., SANTA ANA, CALIFORNIA 92702

V83843 WESTINGHOUSE ELECTRIC CORPORATION, AEROSPACE ELECTRICAL DIVISION,  
P.O. BOX 989, LIMA, OHIO 45802

V84971 TA MANUFACTURING CORPORATION, 375 W. ARDEN AVE., GLENDALE,  
CALIFORNIA 91203

V89305 SIMMONDS PRECISION PRODUCTS, INC., PANTON RD., VERGENNES, VERMONT  
05491

V90005 FACET ENTERPRISES, INC., FILTER PRODUCTS DIV., P. O. BOX 135,  
434 WEST TWELVE MILE ROAD, MADISON HEIGHTS, MICHIGAN 48071

V97424 GENERAL ELECTRIC CO. AIRCRAFT INSTRUMENTS, DEPT 50, FORDHAM RD.,  
WILMINGTON, MASSACHUSETTS 01887

V92798 JOHNS-MANVILLE SALES CORP., NORTH MAIN, MANVILLE, NEW JERSEY 08835

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VENDORS (CONT)

V98441      STRATOFLEX, INC., 220 ROBERTS CUT-OFF, P.O. BOX 10398, FORT WORTH,  
              TEXAS 76114

V99193      GARRETT TURBINE ENGINE CO., 2401 E. MAGNOLIA, P.O. BOX 29003,  
              PHOENIX, ARIZONA 85038

V99321      SHAW AERO DEVICES, INC., DRAWER V, EAST HAMPTON, NEW YORK 11937


**BOEING**  
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| Part No.        | Fig. and Index No. | Qty. per Assy. |
|-----------------|--------------------|----------------|
| AE1003957F-0111 | 1101-1             | 1              |
| AN3-11A         | 1101C-595          | 4              |
| AN320C3         | 1101-143           | 3              |
| AN320C3         | 1101C-270          | 3              |
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| NAS1104-26    | 1101A-64           | 1              |
| NAS1104-26    | 1101C-535          | 1              |
| NAS1106-3     | 1101-31            | 3              |
| NAS1106-3     | 1101A-31           | 3              |
| NAS1106-3     | 1101B-15           | 3              |


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| NAS1106-3     | 1101C-35           | 3              |
| NAS1149C0332R | 1101C-555          | 1              |
| NAS1149C0663R | 1101C-610          | 4              |
| NAS1351C3H8   | 1101A-95A          | 4              |
| NAS1351C3H8   | 1101C-450          | 4              |
| NAS1398M6-2   | 1102-34A           | 2              |
| NAS1758L3     | 1101B-70           | 2              |
| NAS1801-4-11  | 1102A-75           | 1              |
| NAS1802-3-15  | 1102A-50           | 1              |
| NAS1802-3-16  | 1102A-20           | 1              |
| NAS1802-3-8   | 1102A-5            | 2              |
| NAS1802-3-8   | 1102A-90           | 3              |
| NAS1802-3-8   | 1102B-15           | 6              |
| NAS1802-3-8   | 1102B-50           | 2              |
| NAS1802-4-11  | 1102A-120          | 1              |
| NAS1802-4-11  | 1102B-45           | 1              |
| NAS1805-6     | 1101A-155          | 12             |
| NAS1805-6     | 1101B-335          | 12             |
| NAS1805-6     | 1101C-215          | 12             |
| NAS43HT3-34   | 1101B-190          | 1              |
| NAS43HT3-34   | 1102A-30           | 1              |
| NAS43HT3-34   | 1102A-55           | 1              |
| NAS43HT3-80   | 1101B-210          | 3              |
| NAS600-5P     | 1102-20            | 4              |
| NAS600-8      | 1101A-95F          | 4              |
| NAS600-8P     | 1101-84            | 4              |
| NAS603-8      | 1101C-455          | 2              |
| NAS603-8P     | 1101-88            | 2              |
| NAS603-8P     | 1101A-88           | 2              |
| NAS603-10P    | 1102-27A           | 2              |
| NAS623-2-2    | 1101-78            | 6              |
| NAS623-3-1    | 1102-3             | 3              |
| NAS623-3-1    | 1102-27            | 4              |
| NAS623-3-1    | 1102-27B           | 2              |
| NAS623-3-2    | 1101-7             | 4              |
| NAS623-3-2    | 1101A-7            | 4              |
| NAS623-3-2    | 1102-22            | 4              |
| NAS623-3-2    | 1102-22            | 4              |
| NAS623-3-4    | 1102-7             | 2              |
| NAS623-3-4    | 1102-28            | 4              |
| NAS623-3-4    | 1102-32            | 2              |
| NAS623-3-5    | 1102-8             | 2              |
| NAS623-3-5    | 1102-8             | 4              |
| NAS6603-1     | 1101C-560          | 1              |
| NAS6603-20    | 1101B-180          | 1              |
| NAS6603-25    | 1101B-205          | 3              |
| NAS6703U18    | 1101C-275          | 3              |
| NAS6703U3     | 1102-42            | 1              |
| NAS6703U7     | 1101B-30           | 1              |

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| NAS6703U8      | 1101B-35           | 2              |
| NAS6703U8      | 1101C-50           | 3              |
| NAS6704U11     | 1101C-175          | 1              |
| NAS6704U4      | 1101B-50           | 2              |
| NAS6704U5      | 1101C-65           | 1              |
| NAS6704U7      | 1101C-75           | 1              |
| NAS6706HU4     | 1101C-615          | 4              |
| NAS679C4W      | 1101C-535          | 1              |
| S332T100-20    | 1102A-125          | 1              |
| S332T100-21    | 1102B-70           | 1              |
| S332T101-35    | 1102A-130          | 1              |
| S332T101-36    | 1102B-65           | 1              |
| S8157N1-220    | 1101-137           | 4              |
| S8157N1-220    | 1101A-137          | 4              |
| S8157N1-220    | 1101C-620          | 1              |
| S9046-5-9      | 1101-90A           | 1              |
| S9046-5-9      | 1101A-90A          | 1              |
| S9413-222      | 1101-93            | 1              |
| S9413-222      | 1101C-445          | 1              |
| SK10067        | 1101-5             | 1              |
| TA5000BH08AT   | 1102-13            | 2              |
| TA5000BH08AT   | 1102-13            | 4              |
| TA5000BH08AT   | 1102-13            | 10             |
| TA5000BH08AT   | 1102-31            | 4              |
| TA5000BH14AT   | 1102-34            | 1              |
| TA5000BH15AT   | 1102-13            | 1              |
| TA5000BH15AT   | 1102-34            | 1              |
| TA5000BH16HB   | 1102-34            | 1              |
| TR3805CC5-0111 | 1101-1             | 1              |
| 038062         | 1101-73            | 1              |
| 038062         | 1101A-73           | 1              |
| 10-61224-12    | 1101A-162          | 1              |
| 10-62061-6     | 1102-6             | 1              |
| 10-62061-7     | 1102-6             | 1              |
| 10-62061-9     | 1102-6             | 1              |
| 105-03965-01   | 1101-5             | 1              |
| 105-04111      | 1101-5             | 1              |
| 105-04111      | 1101A-5            | 1              |
| 113896         | 1101A-1            | 1              |
| 168661-3       | 1101B-250          | 1              |
| 170079-( )     | 1101B-80           | 1              |
| 170101-105     | 1101B-65           | 1              |
| 170101-106A    | 1101B-6            | 1              |
| 170101-106B    | 1102-65            | 1              |
| 170102-125     | 1101B-350          | 1              |
| 170102-126     | 1101B-350          | 1              |
| 170109-101     | 1101B-285          | 1              |
| 170110-100     | 1101B-125          | 1              |
| 170111-3       | 1101B-215          | 1              |



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| 170118-102  | 1101B-305          | 1              | 380428-2-1   | 1101A-152          | 1              |
| 170118-4    | 1101B-325          | 1              | 380428-3-1   | 1101A-152          | 1              |
| 170146-102  | 1101B-150          | 1              | 380428-4-1   | 1101A-152          | 1              |
| 170147-103  | 1101B-175          | 1              | 380428-4-2   | 1101A-152          | 1              |
| 170161-1    | 1101B-300          | 1              | 380428-5-1   | 1101A-152          | 1              |
| 170239-101  | 1101B-95           | 1              | 380428-5-2   | 1101A-152          | 1              |
| 170239-2    | 1101B-110          | 1              | 380428-6-1   | 1101A-152          | 1              |
| 170275-101  | 1101B-220          | 1              | 380428-6-2   | 1101A-152          | 1              |
| 170275-2    | 1101B-235          | 1              | 380428-7-1   | 1101A-152          | 1              |
| 1703-775-12 | 1102-6             | 1              | 380428-7-2   | 1101A-152          | 1              |
| 170351-1    | 1101B-170          | 1              | 380428-8-1   | 1101A-152          | 1              |
| 170380-1    | 1101B-330          | AR             | 380428-9-1   | 1101A-152          | 1              |
| 170380-2    | 1101B-330          | AR             | 380FA0002    | 1101A-5            | 1              |
| 170380-3    | 1101B-330          | AR             | 380FA0002    | 1101A-5            |                |
| 1706        | 1102-6             | 1              | 3883411-1    | 1101C-540          | 1              |
| 1709-430-27 | 1102-6             | 1              | 417-1477     | 1101C-565          | 1              |
| 1732945-01  | 1101-70            | 1              | 417-339      | 1101-96            | 1              |
| 1732945-01  | 1101A-70           | 1              | 417-339      | 1101-96            | 1              |
| 1732945-01  | 1101C-470          | 1              | 417-584      | 1101-96            | 1              |
| 179500      | 1101B-280          | 1              | 417-584      | 1101A-96           | 1              |
| 179501      | 1101B-115          | 1              | 417-585      | 1101-104C          | 1              |
| 179503      | 1101B-120          | 1              | 4500498      | 1101B-175          | 1              |
| 207865      | 1102-5             | 2              | 472619       | 1102A-130          | 1              |
| 207865      | 1102-5             | 4              | 472621       | 1102B-65           | 1              |
| 274832-00   | 1101-94            | 1              | 5401         | 1102-6             | 1              |
| 274832-00   | 1101A-94           | 1              | 5402         | 1102-6             |                |
| 274832-00   | 1101C-430          | 1              | 5403         | 1102-6             | 1              |
| 274832-02   | 1101-94            | 1              | 5421-04      | 1102-6             | 1              |
| 274832-02   | 1101A-94           | 1              | 572717-01    | 1101-72            | 1              |
| 274832-02   | 1101C-435          |                | 572717-01    | 1101A-72           | 1              |
| 28641A      | 1101-71            | 1              | 572762-02    | 1101-71            | 1              |
| 28641A      | 1101A-71           | 1              | 572762-02    | 1101A-71           | 1              |
| 2CM9ABY7    | 1101A-166          | 1              | 61-30100-( ) | 1101-32            | 1              |
| 380428-1-1  | 1101-152           | 1              | 61-30100-( ) | 1101A-153          | 1              |
| 380428-1-12 | 1101A-152          | 1              | 61-30100-( ) | 1101C-45           | 1              |
| 380428-1-14 | 1101A-152          | 1              | 61-30100-508 | 1102-25            | 1              |
| 380428-1-2  | 1101-152           | 1              | 61-30100-509 | 1102-25            | 1              |
| 380428-1-2  | 1101-152           | 1              | 61-30100-511 | 1102-25            | 1              |
| 380428-1-3  | 1101-152           | 1              | 61-30100-512 | 1102-25            | 1              |
| 380428-1-4  | 1101-152           | 1              | 61-30446     | 1102-90            |                |
| 380428-1-5  | 1101-152           | 1              | 61-30446     | 1102-91            |                |
| 380428-1-6  | 1101-152           | 1              | 61-30446     | 1102-92            |                |
| 380428-1-7  | 1101-152           | 1              | 61-30446     | 1102-93            |                |
| 380428-1-8  | 1101-152           | 1              | 61-30446-( ) | 1102A-800          | 1              |
| 380428-1-9  | 1101-152           | 1              | 61-30446-( ) | 1102B-800          | 1              |
| 380428-10   | 1101A-152          | 1              | 624AG5HD     | 1101-106           | 12             |
| 380428-11   | 1101A-152          | 1              | 624AG5HD     | 1101A-155          | 12             |
| 380428-12   | 1101A-152          | 1              | 624AG5HD     | 1101C-215          | 12             |
| 380428-2-1  | 1101A-152          | 1              | 65-50901     | 1101A              | RF             |


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| 65-50901-1  | 1101               | RF             |
| 65-50901-10 | 1101               | RF             |
| 65-50901-12 | 1101               | RF             |
| 65-50901-13 | 1101               | RF             |
| 65-50901-15 | 1101               | RF             |
| 65-50901-16 | 1101               | RF             |
| 65-50901-17 | 1101               | RF             |
| 65-50901-18 | 1101               | RF             |
| 65-50901-19 | 1101               | RF             |
| 65-50901-20 | 1101               | RF             |
| 65-50901-21 | 1101               | RF             |
| 65-50901-22 | 1101               | RF             |
| 65-50901-22 | 1101A              | RF             |
| 65-50901-23 | 1101A              | 1              |
| 65-50901-24 | 1101               | RF             |
| 65-50901-24 | 1101A              | RF             |
| 65-50901-25 | 1101A              | 1              |
| 65-50901-26 | 1101               | RF             |
| 65-50901-26 | 1101A              | RF             |
| 65-50901-27 | 1101A              | 1              |
| 65-50901-28 | 1101               | RF             |
| 65-50901-28 | 1101A              | RF             |
| 65-50901-29 | 1101A              | 1              |
| 65-50901-30 | 1101               | RF             |
| 65-50901-30 | 1101A              | RF             |
| 65-50901-31 | 1101A              | 1              |
| 65-50901-32 | 1101               | RF             |
| 65-50901-32 | 1101A              | RF             |
| 65-50901-33 | 1101A              | 1              |
| 65-50901-34 | 1101               | RF             |
| 65-50901-34 | 1101A              | RF             |
| 65-50901-35 | 1101A              | 1              |
| 65-50901-36 | 1101               | RF             |
| 65-50901-36 | 1101A              | RF             |
| 65-50901-37 | 1101A              | 1              |
| 65-50901-38 | 1101               | RF             |
| 65-50901-38 | 1101A              | RF             |
| 65-50901-39 | 1101A              | 1              |
| 65-50901-40 | 1101               | RF             |
| 65-50901-40 | 1101A              | RF             |
| 65-50901-41 | 1101A              | 1              |
| 65-50901-42 | 1101               | RF             |
| 65-50901-42 | 1101A              | RF             |
| 65-50901-43 | 1101A              | 1              |
| 65-50901-44 | 1101               | RF             |
| 65-50901-44 | 1101A              | RF             |
| 65-50901-45 | 1101A              | 1              |
| 65-50901-46 | 1101               | RF             |
| 65-50901-46 | 1101A              | RF             |

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| 65-50901-48 | 1101               | RF             |
| 65-50901-48 | 1101A              | RF             |
| 65-50901-5  | 1101               | RF             |
| 65-50901-50 | 1101               | RF             |
| 65-50901-50 | 1101A              | RF             |
| 65-50901-52 | 1101               | RF             |
| 65-50901-52 | 1101A              | RF             |
| 65-50901-53 | 1101               | RF             |
| 65-50901-53 | 1101A              | RF             |
| 65-50901-54 | 1101               | RF             |
| 65-50901-54 | 1101A              | RF             |
| 65-50901-55 | 1101               | RF             |
| 65-50901-55 | 1101A              | RF             |
| 65-50901-56 | 1101               | RF             |
| 65-50901-56 | 1101A              | RF             |
| 65-50901-57 | 1101               | RF             |
| 65-50901-57 | 1101A              | RF             |
| 65-50901-58 | 1101               | RF             |
| 65-50901-58 | 1101A              | RF             |
| 65-50901-59 | 1101               | RF             |
| 65-50901-59 | 1101A              | RF             |
| 65-50901-6  | 1101               | RF             |
| 65-50901-60 | 1101               | RF             |
| 65-50901-60 | 1101A              | RF             |
| 65-50901-7  | 1101               | RF             |
| 65-50901-71 | 1101               | RF             |
| 65-50901-71 | 1101A              | RF             |
| 65-50901-72 | 1101               | RF             |
| 65-50901-72 | 1101A              | RF             |
| 65-50901-73 | 1101               | RF             |
| 65-50901-73 | 1101A              | RF             |
| 65-50901-74 | 1101               | RF             |
| 65-50901-75 | 1101A              | RF             |
| 65-50901-76 | 1101A              | RF             |
| 65-50901-77 | 1101A              | RF             |
| 65-50901-78 | 1101A              | RF             |
| 65-50901-79 | 1101A              | RF             |
| 65-50901-8  | 1101               | RF             |
| 65-50901-80 | 1101A              | RF             |
| 65-50901-81 | 1101               | RF             |
| 65-50901-81 | 1101A              | RF             |
| 65-50901-83 | 1101               | RF             |
| 65-50901-83 | 1101A              | RF             |
| 65-50901-85 | 1101               | RF             |
| 65-50901-85 | 1101A              | RF             |
| 65-50901-86 | 1101A              | 1              |
| 65-50901-87 | 1101               | RF             |
| 65-50901-87 | 1101A              | RF             |
| 65-50901-88 | 1101A              | 1              |

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| 65-50901-89  | 1101               | RF             |
| 65-50901-89  | 1101A              | RF             |
| 65-50901-9   | 1101               | RF             |
| 65-50901-90  | 1101A              | 1              |
| 65-50901-91  | 1101               | RF             |
| 65-50901-91  | 1101A              | RF             |
| 65-50901-92  | 1101A              | 1              |
| 65-50901-95  | 1101               | RF             |
| 65-50901-95  | 1101A              | RF             |
| 65-50901-96  | 1101A              | 1              |
| 65-50901-99  | 1101               | RF             |
| 65-50901-99  | 1101A              | RF             |
| 65-50901-100 | 1101A              | 1              |
| 65-50902-1   | 1101               | 1              |
| 65-50902-2   | 1101               | 1              |
| 65-50902-3   | 1101               | 1              |
| 65-50902-3   | 1101A-138A         | 1              |
| 65-50902-3   | 1101C-230          | 1              |
| 65-50911-1   | 1101-147           | 3              |
| 65-50911-1   | 1101A-147          | 3              |
| 65-50911-1   | 1101C-235          | 1              |
| 65-50912-1   | 1101-148           | 1              |
| 65-50912-3   | 1101-148           | 1              |
| 65-50912-3   | 1101A-148          | 1              |
| 65-50912-3   | 1101C-240          | 1              |
| 65-50912-5   | 1101C-265          | 1              |
| 65-50912-6   | 1101C-265          | 1              |
| 65-50917-1   | 1101-149           | 1              |
| 65-50917-3   | 1101-149           | 1              |
| 65-50917-3   | 1101A-149          | 1              |
| 65-50917-3   | 1101C-245          | 1              |
| 65-50917-5   | 1101C-250          | 1              |
| 65-50917-6   | 1101C-250          | 1              |
| 65-50918-1   | 1101-150           | 1              |
| 65-50918-3   | 1101-150           | 1              |
| 65-50918-3   | 1101A-150          | 1              |
| 65-50918-3   | 1101C-255          | 1              |
| 65-50918-5   | 1101C-260          | 1              |
| 65-50918-6   | 1101C-260          | 1              |
| 65-50945-1   | 1101-81            | 1              |
| 65-50964-1   | 1101-130           | 1              |
| 65-50964-1   | 1101A-130          | 1              |
| 65-50964-1   | 1101C-195          | 1              |
| 65-50964-2   | 1101-133           | 1              |
| 65-50964-2   | 1101A-133          | 1              |
| 65-50964-2   | 1101C-210          | 1              |
| 65-50991-1   | 1101-              | 1              |
| 65-50991-2   | 1101-107           | 1              |
| 65-50993-1   | 1101-              | 1              |

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| 65-50993-1 | 1101A-             | 1              |
| 65-50993-2 | 1101-53            | 1              |
| 65-50993-2 | 1101A-53           | 1              |
| 65-50993-2 | 1101C-345          | 1              |
| 65-50993-3 | 1101-46            | 1              |
| 65-50993-3 | 1101A-46           | 1              |
| 65-50993-3 | 1101C-350          | 1              |
| 65-50993-4 | 1101-47            | 1              |
| 65-50993-4 | 1101A-47           | 1              |
| 65-50993-4 | 1101C-355          | 1              |
| 65-50993-5 | 1101-49            | 1              |
| 65-50993-5 | 1101A-49           | 1              |
| 65-50993-5 | 1101C-360          | 1              |
| 65-50993-6 | 1101A-             | 1              |
| 65-50993-6 | 1101A-             | 1              |
| 65-50993-6 | 1101C-340          | 1              |
| 65-50993-7 | 1101C-340          | 1              |
| 65-59388-1 | 1101-35            | 1              |
| 65-59388-2 | 1101-37            | 1              |
| 65-59388-3 | 1101-35            | 1              |
| 65-59388-3 | 1101A-35           | 1              |
| 65-59388-4 | 1101-37            | 1              |
| 65-59388-4 | 1101A-37           | 1              |
| 65-59388-5 | 1101-37            | 1              |
| 65-59388-5 | 1101A-37           | 1              |
| 65-59388-6 | 1101-35            | 1              |
| 65-59388-6 | 1101A-35           | 1              |
| 65-59388-6 | 1101C-385          | 1              |
| 65-59388-7 | 1101-37            | 1              |
| 65-59388-7 | 1101A-37           | 1              |
| 65-59388-7 | 1101C-385A         | 1              |
| 65-59388-8 | 1101A-35           | 1              |
| 65-59388-8 | 1101C-385          | 1              |
| 65-59388-9 | 1101A-37           | 1              |
| 65-59388-9 | 1101C-385A         | 1              |
| 65-59392-6 | 1101-96            | 1              |
| 65-62580-1 | 1101-138           | 1              |
| 65-62580-2 | 1101-138           | 1              |
| 65-62580-2 | 1101C-395          | 1              |
| 65-62580-2 | 1101A-138          | 1              |
| 65-62588-1 | 1101               | 1              |
| 65-62588-2 | 1101               | 1              |
| 65-62588-2 | 1101A              | 1              |
| 65-62588-2 | 1101C-395          | 1              |
| 65-62588-2 | 1101C-400          | 1              |
| 65-62588-3 | 1101-95            | 1              |
| 65-62588-3 | 1101C-405          | 1              |
| 65-62588-3 | 1101A-95           | 1              |
| 65-62588-4 | 1101A              | 1              |
| 65-62588-5 | 1101A-95I          | 4              |


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| 65-66207-1    | 1101               | 1              |
| 65-66207-1    | 1101A              | 1              |
| 65-66207-1    | 1102               | RF             |
| 65-66207-10   | 1101               | 1              |
| 65-66207-10   | 1101A              | 1              |
| 65-66207-10   | 1102               | RF             |
| 65-66207-11   | 1101               | 1              |
| 65-66207-11   | 1101A              | 1              |
| 65-66207-11   | 1102               | RF             |
| 65-66207-12   | 1101               | 1              |
| 65-66207-12   | 1101A              | 1              |
| 65-66207-12   | 1102               | RF             |
| 65-66207-13   | 1102-43            | 1              |
| 65-66207-14   | 1101A              | 1              |
| 65-66207-14   | 1102               | RF             |
| 65-66207-15   | 1101A              | 1              |
| 65-66207-15   | 1102               | RF             |
| 65-66207-16   | 1101A              | 1              |
| 65-66207-16   | 1102               | RF             |
| 65-66207-2    | 1101               | 1              |
| 65-66207-2    | 1102               | RF             |
| 65-66207-21   | 1101B-800          | 1              |
| 65-66207-21   | 1102A-             | RF             |
| 65-66207-22   | 1101B-800          | 1              |
| 65-66207-22   | 1102A-             | RF             |
| 65-66207-23   | 1101C-800          | 1              |
| 65-66207-23   | 1102B-             | RF             |
| 65-66207-24   | 1101C-800          | 1              |
| 65-66207-24   | 1102B-             | RF             |
| 65-66207-3    | 1101               | 1              |
| 65-66207-3    | 1101A              | 1              |
| 65-66207-3    | 1102               | RF             |
| 65-66207-4    | 1101               | 1              |
| 65-66207-4    | 1101A              | 1              |
| 65-66207-4    | 1102               | RF             |
| 65-66207-5    | 1101               | 1              |
| 65-66207-5    | 1101A              | 1              |
| 65-66207-5    | 1102               | RF             |
| 65-66207-5001 | 1101               | 1              |
| 65-66207-5001 | 1102               | RF             |
| 65-66207-5002 | 1101               | 1              |
| 65-66207-5002 | 1102               | RF             |
| 65-66207-5003 | 1101               | 1              |
| 65-66207-5003 | 1102               | RF             |
| 65-66207-6    | 1101               | 1              |
| 65-66207-6    | 1102               | RF             |
| 65-66207-7    | 1101               | 1              |
| 65-66207-7    | 1102               | RF             |
| 65-66207-8    | 1101               | 1              |

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| 65-66207-8  | 1102               | RF             |
| 65-66208-1  | 1101               | 1              |
| 65-66208-1  | 1101A              | 1              |
| 65-66216-1  | 1101               | 1              |
| 65-66216-1  | 1101A              | 1              |
| 65-66216-1  | 1101C-460          | 1              |
| 65-66216-2  | 1101-54            | 1              |
| 65-66216-2  | 1101A-54           | 1              |
| 65-66216-2  | 1101C-465          | 1              |
| 65-66216-3  | 1101-57            | 1              |
| 65-66216-3  | 1101A-57           | 1              |
| 65-88936-1  | 1101               | RF             |
| 65-88936-10 | 1101               | RF             |
| 65-88936-11 | 1101               | RF             |
| 65-88936-11 | 1101A              | RF             |
| 65-88936-13 | 1101               | RF             |
| 65-88936-13 | 1101A              | RF             |
| 65-88936-15 | 1101               | RF             |
| 65-88936-15 | 1101A              | RF             |
| 65-88936-16 | 1101               | RF             |
| 65-88936-16 | 1101A              | RF             |
| 65-88936-17 | 1101               | RF             |
| 65-88936-17 | 1101A              | RF             |
| 65-88936-18 | 1101               | RF             |
| 65-88936-18 | 1101A              | RF             |
| 65-88936-7  | 1101               | RF             |
| 65-88936-8  | 1101               | RF             |
| 65-88936-9  | 1101               | RF             |
| 65C35424-1  | 1101B              | RF             |
| 65C35424-2  | 1101B              | RF             |
| 65C35424-3  | 1102               | RF             |
| 65C35424-4  | 1102               | RF             |
| 65C35694-1  | 1101C              | RF             |
| 69-37926-1  | 1101-116           | 1              |
| 69-37926-1  | 1101A-116          | 1              |
| 69-37926-1  | 1101C-85           | 1              |
| 69-37926-2  | 1101-116           | 1              |
| 69-37926-2  | 1101A-116          | 1              |
| 69-37926-2  | 1101B-60           | 1              |
| 69-37926-2  | 1101C-85           | 1              |
| 69-37926-2  | 1101C-85           | 1              |
| 69-39494-1  | 1101-6             | 1              |
| 69-39494-1  | 1101A-6            | 1              |
| 69-39494-1  | 1101C-540          | 1              |
| 69-45771-1  | 1101-50            | 1              |
| 69-45771-1  | 1101A-50           | 1              |
| 69-45784-1  | 1101-127           | 1              |
| 69-45784-1  | 1101A-127          | 1              |
| 69-45784-1  | 1101C-150          | 1              |

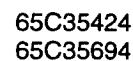
65-50901  
65-88936

65C35424  
65C35694



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|------------|--------------------|----------------|
| 69-45784-2 | 1101-127           | 1              |
| 69-45784-2 | 1101A-127          | 1              |
| 69-45785-1 | 1101-126           | 1              |
| 69-45785-1 | 1101A-126          | 1              |
| 69-45785-1 | 1101C-140          | 1              |
| 69-45786-1 | 1101-128           | 1              |
| 69-45786-1 | 1101A-128          | 1              |
| 69-45786-1 | 1101C-145          | 1              |
| 69-45786-2 | 1101-128           | 1              |
| 69-45786-2 | 1101A-128          | 1              |
| 69-47582-1 | 1101               | 1              |
| 69-47582-1 | 1101               | 1              |
| 69-47582-2 | 1101               | 1              |
| 69-47582-3 | 1101               | 1              |
| 69-47582-3 | 1101A              | 1              |
| 69-47582-4 | 110C-545           | 1              |
| 69-47583-1 | 1101-36            | 3              |
| 69-47583-1 | 1101A-36           | 3              |
| 69-47583-1 | 1101C-390          | 3              |
| 69-47596-1 | 1101-77            | 2              |
| 69-50854-1 | 1101-27            | 1              |
| 69-50854-2 | 1101-27            | 1              |
| 69-50854-2 | 1101A-27           | 1              |
| 69-50854-2 | 1101C-570          | 1              |
| 69-50854-3 | 1101-27C           | 1              |
| 69-50854-3 | 1101A-27C          | 1              |
| 69-50854-3 | 1101C-575          | 1              |
| 69-50854-4 | 1101-27B           | 2              |
| 69-50854-4 | 1101A-27B          | 2              |
| 69-50854-4 | 1101C-580          | 2              |
| 69-50861-1 | 1101-1             | 1              |
| 69-50861-1 | 1101A-1            | 1              |
| 69-50861-2 | 1101-2             | 1              |
| 69-50861-2 | 1101A-2            | 1              |
| 69-50869-4 | 1101-102           | 1              |
| 69-50873-1 | 1102-4             | 6              |
| 69-50874-1 | 1101-9             | 1              |
| 69-50874-1 | 1101A-9            | 1              |
| 69-50874-2 | 1101-13            | 1              |
| 69-50874-2 | 1101A-13           | 1              |
| 69-50878-1 | 1102-17            | 1              |
| 69-50878-1 | 1102-17            | 1              |
| 69-50882-2 | 1102-39            | 1              |
| 69-50882-3 | 1102-39            | 1              |
| 69-50883-1 | 1101-21            | 1              |
| 69-50883-1 | 1101A-21           | 1              |
| 69-50883-2 | 1101-24            | 1              |
| 69-50883-2 | 1101A-24           | 1              |
| 69-50884-3 | 1101-17            | 1              |

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| 69-50884-3 | 1101A-17           | 1              |
| 69-50884-4 | 1101-20            | 1              |
| 69-50884-4 | 1101A-20           | 1              |
| 69-50890-4 | 1101-65            | 1              |
| 69-50890-4 | 1101A-65           | 1              |
| 69-50890-4 | 1101C-475          | 1              |
| 69-55135-1 | 1101-44            | 2              |
| 69-55135-1 | 1101A-44           |                |
| 69-55136-1 | 1101-38            | 1              |
| 69-55136-1 | 1101A-38           | 1              |
| 69-55136-1 | 1101C-580          | 1              |
| 69-55136-1 | 1101C-585          | 1              |
| 69-55136-2 | 1101-40            | 1              |
| 69-55136-2 | 1101A-40           | 1              |
| 69-55136-3 | 1101-41            | 1              |
| 69-55136-3 | 1101A-41           | 1              |
| 69-55136-4 | 1101-38            | 1              |
| 69-55136-4 | 1101A-38           | 1              |
| 69-55136-4 | 1101C-585          | 1              |
| 69-55136-5 | 1101-40            | 1              |
| 69-55136-5 | 1101A-40           | 1              |
| 69-55136-6 | 1101-41            | 1              |
| 69-55136-6 | 1101A-41           | 1              |
| 69-55138-1 | 1101-39            | 1              |
| 69-55138-1 | 1101A-39           | 1              |
| 69-55139-1 | 1101-42            | 1              |
| 69-55139-1 | 1101A-42           | 1              |
| 69-55142-1 | 1101-43            | 2              |
| 69-55142-1 | 1101A-43           | 2              |
| 69-55142-2 | 1101A-43           | 2              |
| 69-55142-2 | 1101C-590          | 2              |
| 69-56393-1 | 1102-25            | 2              |
| 69-56393-1 | 1102-25            | 2              |
| 69-56393-2 | 1102-26            | 1              |
| 69-56393-2 | 1102-26            | 1              |
| 69-56394-1 | 1102-16            | 1              |
| 69-56395-1 | 1102-21            | 1              |
| 69-56446-1 | 1101-5             | 1              |
| 69-56446-2 | 1101-5             | 1              |
| 69-56446-2 | 1101-5             | 1              |
| 69-56446-2 | 1101A-5            | 1              |
| 69-64914-1 | 1101-134A          | 1              |
| 69-67533-1 | 1102-16            | 1              |
| 69-67533-2 | 1102-16            | 1              |
| 69-67533-3 | 1102-16B           | 1              |
| 69-67533-4 | 1102-16B           | 1              |
| 69-67533-5 | 1102-16            | 1              |
| 69-67533-6 | 1102-16            | 1              |
| 69-68119-1 | 1101-104A          | 1              |
| 69-68119-2 | 1101-104B          | 1              |



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