COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST

FORWARD LAVATORY OXYGEN SERVICE UNIT INSTALLATION

PART NUMBER 65-58255–1, –3

PUBLISHED BY BOEING COMMERCIAL AIRPLANES GROUP, SEATTLE, WASHINGTON, USA
A DIVISION OF THE BOEING COMPANY
PAGE DATE: Jul 01/2009

COMPONENT MAINTENANCE MANUAL

Revision No. 6
Jul 01/2009

To: All holders of FORWARD LAVATORY OXYGEN SERVICE UNIT INSTALLATION 25-26-02.

Attached is the current revision to this COMPONENT MAINTENANCE MANUAL

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

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

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

ATTENTION

IF YOU RECEIVE PRINTED REVISIONS, PLEASE VERIFY THAT YOU HAVE RECEIVED AND FILED THE PREVIOUS REVISION. BOEING MUST BE NOTIFIED WITHIN 30 DAYS IF YOU HAVE NOT RECEIVED THE PREVIOUS REVISION. REQUESTS FOR REVISIONS OTHER THAN THE PREVIOUS REVISION WILL REQUIRE A COMPLETE MANUAL REPRINT SUBJECT TO REPRINT CHARGES SHOWN IN THE DATA AND SERVICES CATALOG.

Location of Change	Description of Change
	NO HIGHLIGHTS

BOEING®

COMPONENT MAINTENANCE MANUAL

A = Added, R = Revised, D = Deleted, O = Overflow

TABLE OF CONTENTS

BOEING®

COMPONENT MAINTENANCE MANUAL

TEMPORARY REVISION AND SERVICE BULLETIN RECORD

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVE	DATE OF INCORPORATION INTO MANUAL
		PRR 32191	MAR 01/95
		PRR 32764-6	MAR 01/95
		PRR 33180-23	MAR 01/95
		PRR 33195-1	MAR 01/95

All revisions to this manual will be accompanied by transmittal sheet bearing the revision number. Enter the revision number in numerical order, together with the revision date, the date filed and the initials of the person filing.

Revision		Filed		Revision		Filed	
Number	Date	Date	Initials	Number	Date	Date	Initials

Revision		Filed		Revision		Filed	
Number	Date	Date	Initials	Number	Date	Date	Initials

BOEING®

COMPONENT MAINTENANCE MANUAL

All temporary revisions to this manual will be accompanied by a cover sheet bearing the temporary revision number. Enter the temporary revision number in numerical order, together with the temporary revision date, the date the temporary revision is inserted and the initials of the person filing.
When the temporary revision is incorporated or cancelled, and the pages are removed, enter the date the pages are removed and the initials of the person who removed the temporary revision.

Temporary Revision		Inserted		Removed	
Number	Date	Date	Initials	Date	Initials

Temporary Revision		Inserted		Removed	
Date	Initials	Number	Date	Date	Initials

Temporary Revision		Inserted		Removed	
Number	Date	Date	Initials	Date	Initials

Temporary Revision		Inserted		Removed	
Date	Initials	Number	Date	Date	Initials

INTRODUCTION

1. General

A. The instructions in this manual supply the data necessary to do the maintenance functions together with the test, fault isolation, repair, and replacement of the defective parts.

B. This manual is divided into different parts:

(1) Title Page

(2) Transmittal Letter

(3) Highlights

(4) List of Effective Pages

(5) Table of Contents

(6) Temporary Revision & Service Bulletin Record

(7) Record of Revisions

(8) Record of Temporary Revisions

(9) Introduction

(10) Procedures & IPL Sections

C. Components that can be repaired have a different repair number for each specified repair. To find the repair number location of a component, look in the Repair-General procedure at the beginning of the REPAIR section. The Repair-General procedure also has an explanation of the True Position Dimension symbols used.

D. All dimensions, measures, quantities and weights included are in English units. When metric equivalents are given they will be in the parentheses that follow the English units.

E. The introduction to the Illustrated Parts List (IPL) shows how the IPL data is used.

F. Design changes, optional parts, configuration differences and Service Bulletin modifications may cause different part numbers. These part numbers are identified in the IPL with an alphabetical letter which is added to the end of the basic item number. This new item number is referred to as an alpha-variant. Throughout the manual, IPL basic item number references also apply to alpha-variants unless shown differently.

G. The tool reference numbers found in the individual procedures and in the Special Tools, Fixtures, and Equipment section are used to identify if a tool is a standard tool (STD-XXXX), a commercial tool (COM-XXXX), or a Special Tool (SPL-XXXX). This reference number is also used to distinguish between tools with similar names in the same procedure. These reference numbers are for use in the documentation only. They are not to be used for ordering tools.

FORWARD LAVATORY OXYGEN SERVICE UNIT INSTALLATION - DESCRIPTION AND OPERATION

1. Description

A. The forward lavatory oxygen service unit installation is a plastic box that contains oxygen masks, tubing and a supply valve and manifold. A door on the bottom of the unit is connected to the manifold by a hookplate.

2. Operation

A. When the passenger oxygen system is operated, the manifold releases the hookplate, which lets the door fall open. Then the masks fall out and hang by their cords from the unit. The door can also be manually opened.

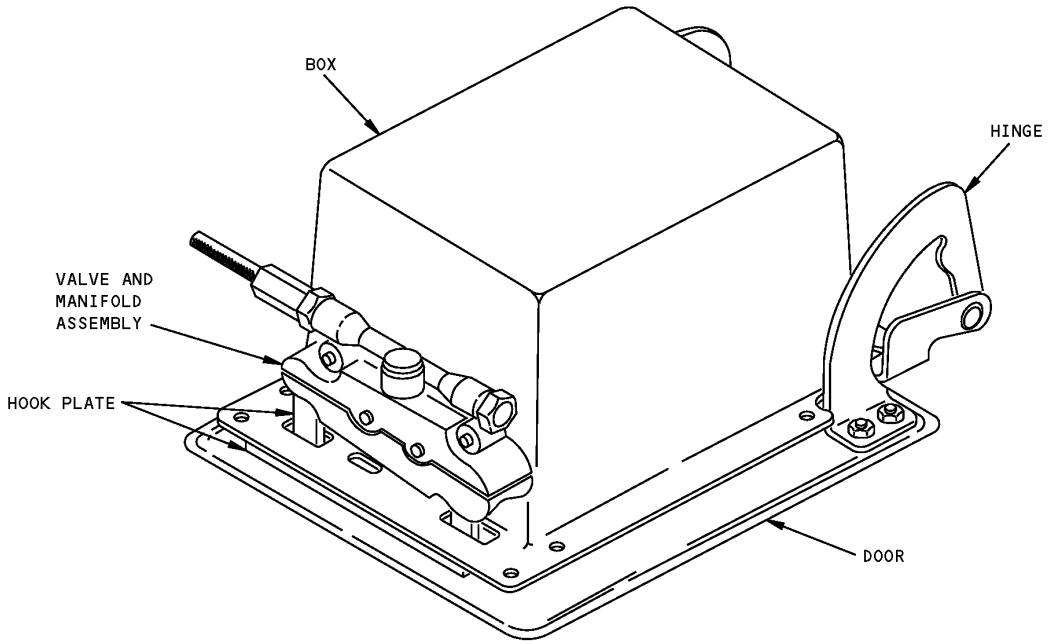
3. Leading Particulars (Approximate)

A. Length – 10 inches

B. Width – 6 inches

C. Height – 5 inches

D. Weight – 2 pounds



Forward Lavatory Oxygen Service Unit Assembly
Figure 1

COMPONENT MAINTENANCE MANUAL

TESTING AND FAULT ISOLATION

(NOT APPLICABLE)

DISASSEMBLY

1. General

A. This procedure has the data necessary to disassemble the unit.

B. Refer to IPL Figure 1 for item numbers.

2. Disassembly

A. Procedure (IPL Figure 1)

WARNING: DO NOT LET OIL, GREASE, FLAMMABLE SOLVENTS, DUST, LINT, FINE METAL FILINGS, OR OTHER SUCH MATERIALS GET IN OXYGEN SYSTEM COMPONENTS. THESE MATERIALS CAN START A FIRE AND CAUSE AN EXPLOSION WHEN TOUCHED BY OXYGEN.

CAUTION: THE OUTSIDE FACE OF DOOR (60) CAN BE SEEN FROM THE CABIN INTERIOR. BE CAREFUL NOT TO DAMAGE SURFACES THE PASSENGERS WILL SEE.

(1) Use standard industry practices and these special steps.

(2) Refer to applicable vendor's instructions for overhaul of latch valve and manifold assembly (160).

(NOT APPLICABLE)

(NOT APPLICABLE)

REPAIR

1. **Content**

A. Repair, refinish and replacement procedures are included in separate repair sections as follows:

Table 601:

P/N	NAME	REPAIR
- -	MISCELLANEOUS PARTS	1-1
65-53524-1, 69-56487-2	OXYGEN MASK REPLACEMENT	2-1

MISCELLANEOUS PARTS - REPAIR 1-1

1. General

A. This procedure has the data necessary to refinish the parts.

B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.

C. Refer to IPL Figure 1 for item numbers.

2. Refinish Details

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

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

B. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES
SOPM 20-60-02	FINISHING MATERIALS

C. Procedure

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02.

(1) Instructions for the repair of the parts listed REPAIR 1-1, Table 601 are for repair of the initial finish

Table 601: Refinish Details

IPL FIG. & ITEM	MATERIAL	FINISH
IPL Figure 1		
Hook plate (45), spacer (30)	Nylon	No finish.
Door assembly (60)	- - -	Paint or other decorative coating to agree with the airplane interior color scheme.
Door (70), hinges (100,105), brackets (135,140), striker plate (145)	Al alloy	Chemical treat or chromic acid anodize and apply primer, C00259 (SRF-2.30).
Box (165)	Fiberglass - reinforced plastic	No finish.

OXYGEN MASKS

65-53524–1, 69-56487–2

1. General

A. This procedure has the data necessary to do a repair.

B. Refer to IPL Figure 1 for item numbers.

2. Remove Masks

A. Procedure

(1) Push in on the manual release pin to manually open the service unit door.

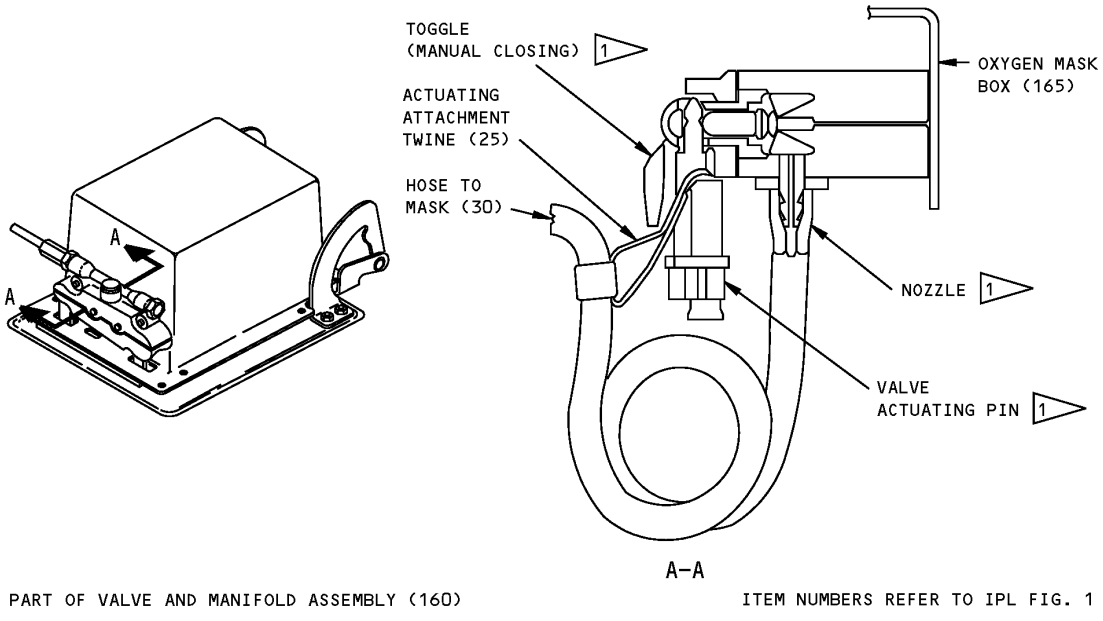
(2) Disconnect the masks.

(a) Pull the valve actuating pins out of engagement with the outlet valves (REPAIR 2-1, Figure 601).

(b) Pull the hoses off the nozzles.

(c) Remove the valve actuating pins from their actuating attachments.

(d) Put the valve actuating pins back into the outlet valves.



Valve Actuating Pin Installation
Figure 601

3. Prepare Masks for Installation

A. Procedure (REPAIR 2-1, Figure 602)

(1) Before you install the oxygen masks, make sure the mask hoses (tubing) are soft and flexible. Discoloration of the mask hoses occurs after a long time but by itself does not make the mask assembly unserviceable. Replace mask assemblies as necessary.

(2) Attach two plastic coil retainers to tubing, one to each side of valve actuating attachment, each at approximately 2-1/2 inches from attachment.

(3) Start at the reservoir bag end and wind tubing to make approximately 2-1/2 coils. Keep dimensions and arrangement as shown.

NOTE: The mask with the clockwise-wound coil will be mask A. The opposite mask, with the counterclockwise coil, will be mask B.

(4) Attach valve actuation pin to valve actuating attachment. Install plastic guard.

NOTE: Valve actuation pins could be short or long, as shown.

4. Install Masks

A. Procedure (REPAIR 2-1, Figure 603)

(1) Manually open the door.

(2) Connect the hoses to their correct nozzles.

(3) Place the coil of mask B into the box and then push the valve actuating pin firmly into the valve for mask B until detent is engaged, as shown. The valve end of the tubing must be in the corner of the compartment adjacent to the valve, and the valve actuating pin must be toward the nearest compartment sidewall.

(4) Do step REPAIR 2-1, Paragraph 4.A.(3) again with mask A, with its coil A over the coil of mask B.

(5) Lay each headstrap on its reservoir bag.

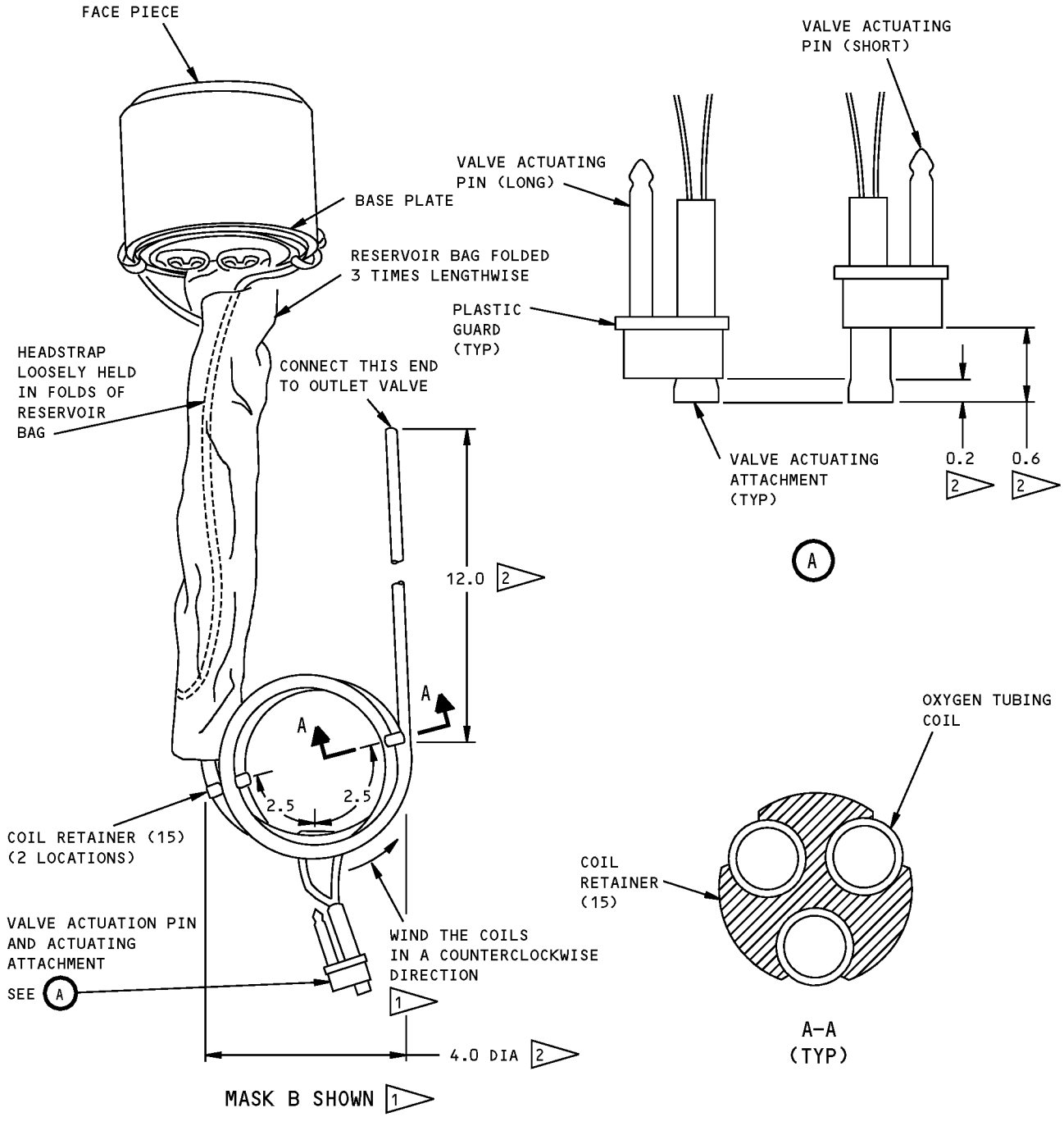
(6) Fold each reservoir bag three times lengthwise. This will put the headstrap in the folds of the reservoir bag.

(7) Coil the reservoir bag of mask assembly A onto the coils already in the box. Use the mask facepiece to hold the coils in position with the open end of the facepiece down.

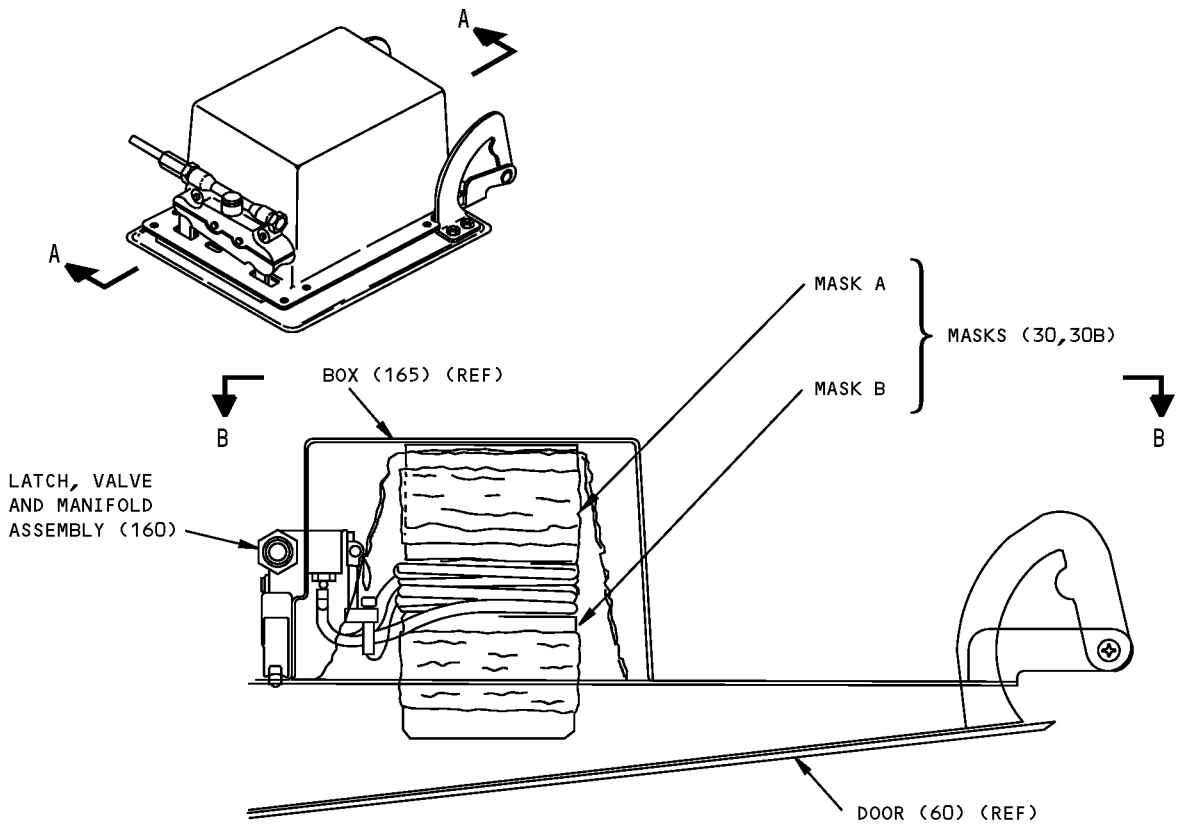
(8) Place the hard back of mask B directly onto mask A, with the open end of mask B down. Let the reservoir bag of mask B fold freely into the corner at the box compartment end opposite the outlet valves. Make sure no tubing falls to the side of facepieces. Make sure the facepieces are away from the outlet valve manifold.

(9) Make sure the routing of the tubing is correct. Make sure the valve actuating pins will stay installed.

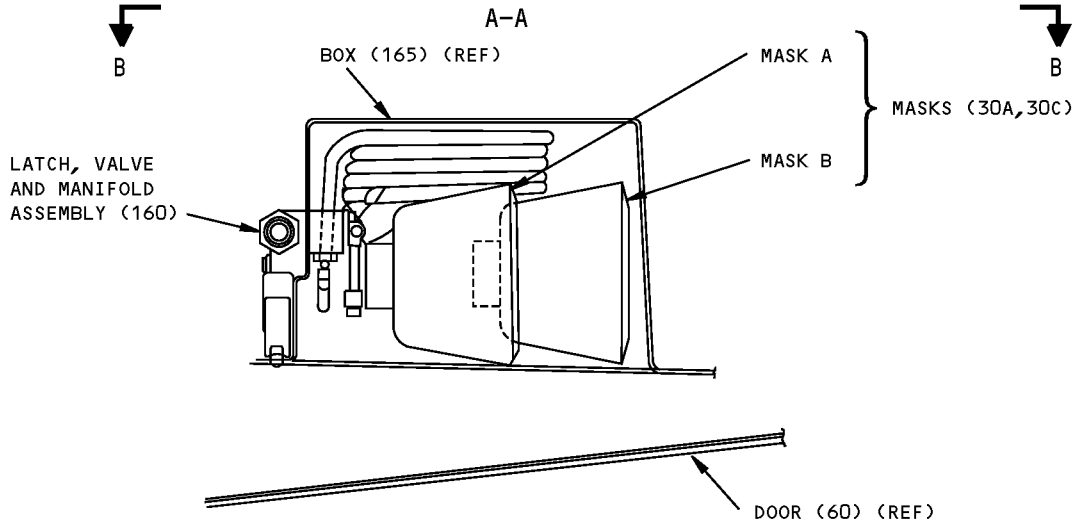
(10) Close the mask stowage compartment door. As you do this, be sure to slide your hand out carefully to keep the masks correctly packed. Make sure that the door and the latch are fully engaged.



Mask Preparation for Installation
Figure 602



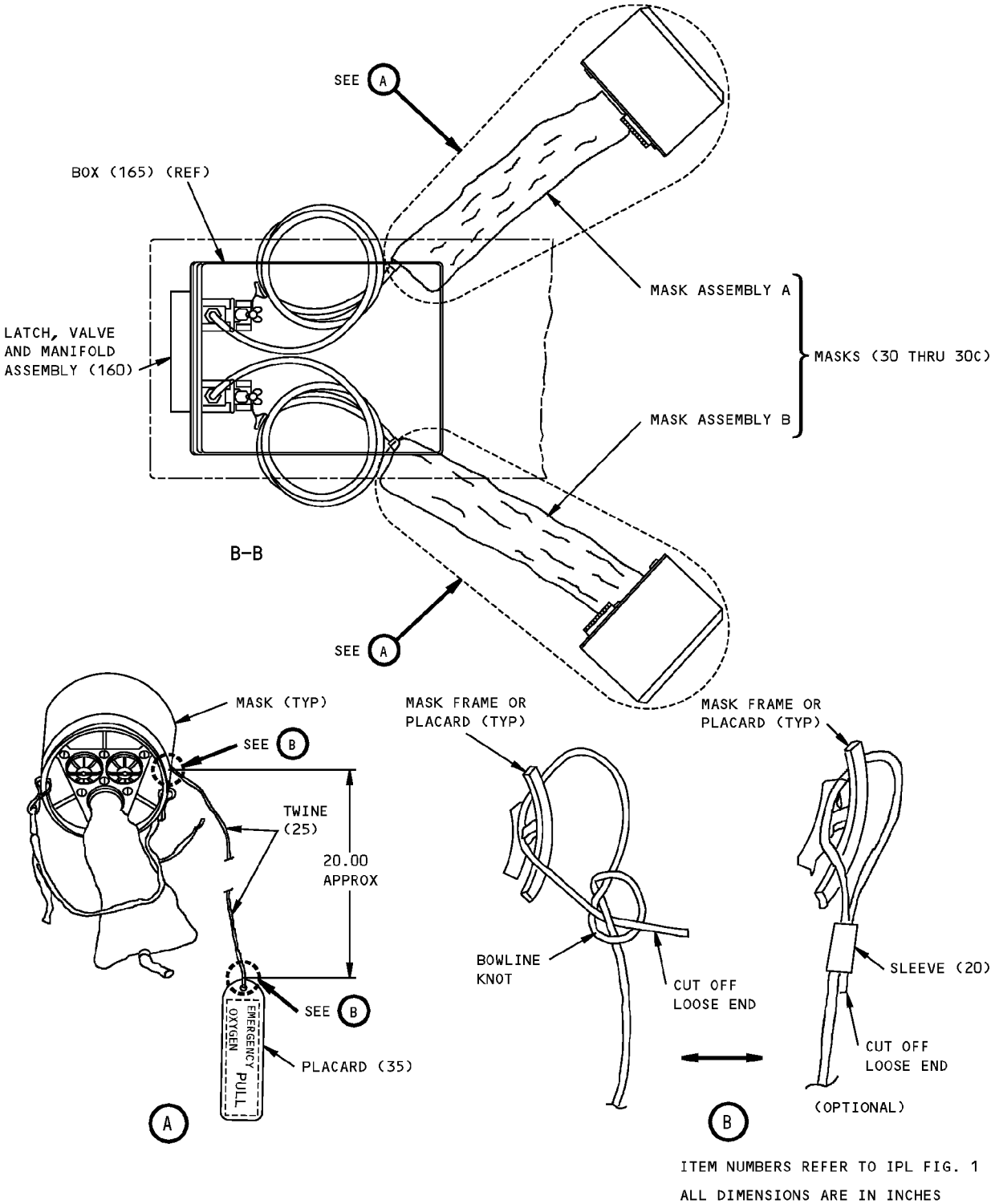
CONFIG WITH MASKS (30,30B)
A-A



CONFIG WITH MASKS (30A,30C)
A-A

ITEM NUMBERS REFER TO IPL FIG. 1

How to Pack the Masks
Figure 603 (Sheet 1 of 2)



How to Pack the Masks
Figure 603 (Sheet 2 of 2)

ASSEMBLY

1. **General**
   A. This procedure has the data necessary to do an assembly.
   B. Refer to IPL Figure 1 for the item numbers.
2. **Assembly**
   A. Procedure
      (1) Use standard industry practices and these special steps.
      (2) Use packing (50) if or when necessary.

BOEING®

COMPONENT MAINTENANCE MANUAL

FITS AND CLEARANCES

(NOT APPLICABLE)

(NOT APPLICABLE)

ILLUSTRATED PARTS LIST

1. Introduction

A. The Illustrated Parts List (IPL) contains an illustration and a list of component parts you can repair or replace. The Illustrated Parts Catalog (IPC) shows how to use the Boeing part number system.

B. This shows how parts are related: The relation of each item to its next higher assembly (NHA) is shown in the NOMENCLATURE column. Use the indenture system that follows:

1 2 3 4 5 6 7

. Assembly

. Attaching parts for assembly

. . Detail parts for assembly

. . Subassembly

. . Attaching parts for subassembly

. . . Detail parts for subassembly

. . . Sub-subassembly

. . . Attaching parts for subassembly

. . . . . Details parts for sub-subassembly

Detail Installation Parts (Included only if installation parts may be sent to the shop as part of assembly)

C. Each top assembly is given one use code letter (A, B, C, etc.) in the USAGE CODE column. All subsequent component parts in the list can have one or more of the use code letters to show effectivity to top assemblies. A component part without a use code applies to all top assemblies.

D. An alphabetical letter is added after the item number for optional parts, parts changed by a Service Bulletin, configuration differences (except left-handed and right-handed parts), last engineering releases, and parts added between item numbers in a sequence. The alphabetical letter will not be shown on the illustration for equivalent parts of the same part number.

E. Color-coded parts are identified with a single digit alpha following the dash number or with ''SP'' suffix. If the ''SP'' suffix is used, it represents consolidation of all color codes applicable for a given usage which are not separately listed. Orders for color-coded parts should include the registry number of the airplane for which the parts are ordered.

F. If a part number is 15 characters long but will not fit in the part number column, the part number will be displayed with a ''~'' at the end of the line and will be continued on the next line. The ''~'' denotes that the part number continues on the next line.

G. Parts changed by a Service Bulletin are shown by PRE SB XXXX and POST SB XXXX added to the NOMENCLATURE column.

(1) When a new top assembly is added by a Service Bulletin, PRE SB XXXX and POST SB XXXX will be added at the top assembly level only. The configuration differences at the detail part level are shown by use code letters.

(2) When the top assembly part number is not changed by the Service Bulletin, PRE SB XXXX and POST SB XXXX will be added at the detail level.

H. Interchangeable Parts

Optional (OPT)	The part is optional to and interchangeable with other parts that have the same item number.
Replaces, Replaced by and not interchangeable with (REPLACES, REPLACED BY AND NOT INTCHG/W)	The part replaces and is not interchangeable with the initial part.
Replaces, Replaced by (REPLACES, REPLACED BY)	The part replaces and is interchangeable with, or is an alternative to, the initial part.

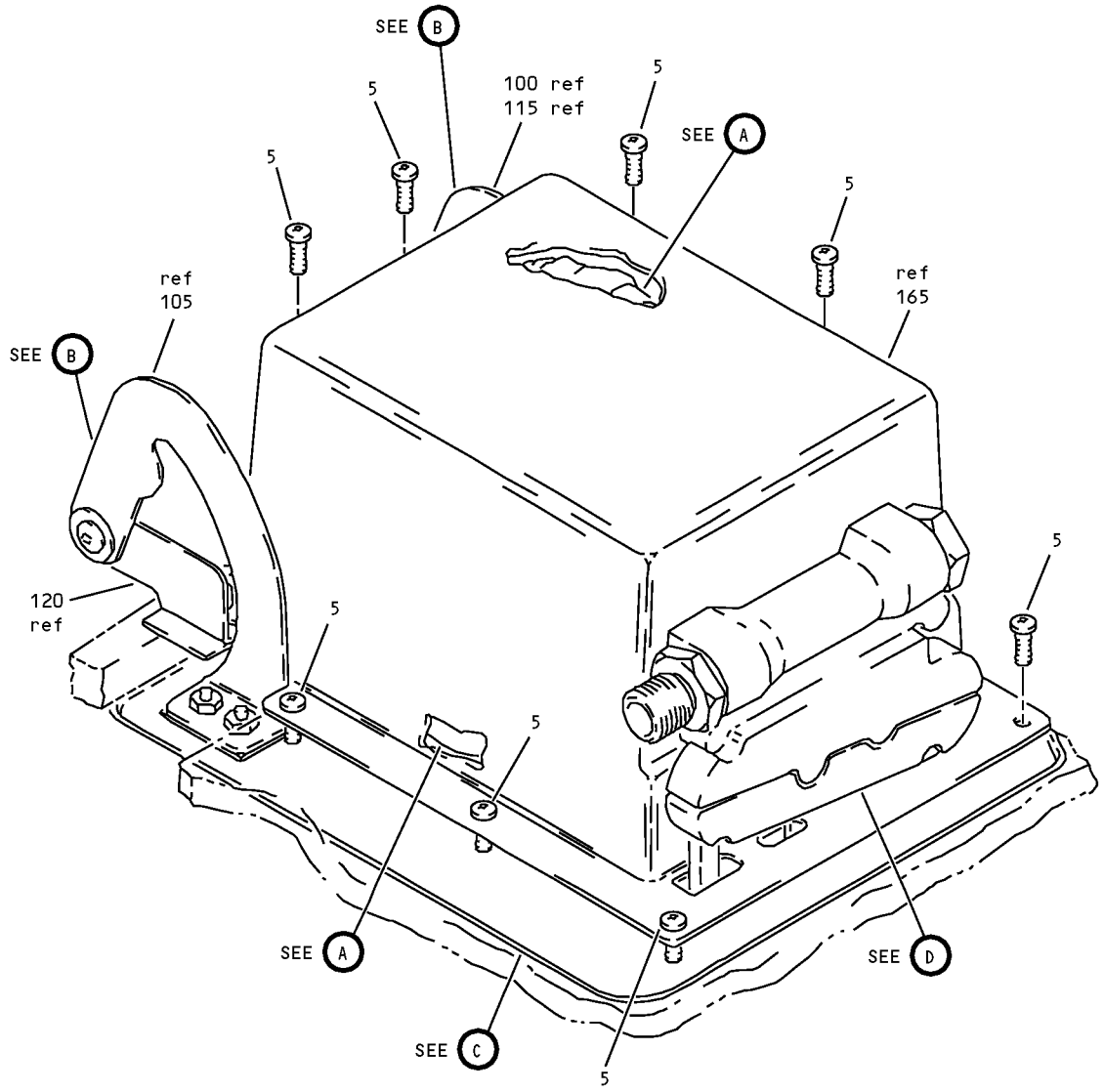
VENDOR CODES

Code	Name
02751	BLACK AND WEBSTER INC NYLOGRIP PRODUCTS DIV 292 2ND AVENUE WALTHAM, MASSACHUSETTS 02514 FORMERLY NYLOGRIP PRODUCTS
10630	ANILLO INDUSTRIES, INCORPORATED 2090 NORTH GLASSELL ORANGE, CALIFORNIA 92667 FORMERLY WESTERN WASHER DIV OF SENG CO V87487
26365	DYNACAST INC 1401 FRONT STREET YORKTOWN, NEW YORK 10598 FORMERLY GRIES DYNACAST CO DIV OF COATS & CLARK INC
59730	Replaced: [V59730] THOMAS AND BETTS CORP SEE V56501 by Code: Name and Address below 56501: THOMAS AND BETTS CORP 8155 T AND B BLVD MEMPHIS, TENNESSEE 38125 FORMERLY V 06865 AND V59730 THOMAS AND BETTS CORP
70601	Replaced: [V70601] ANTI-CORROSIVE METAL PRODUCTS CO INC by Code: Name and Address below 57472: ITT HARPER FASTNRS OPERATIONS ITT AEROSPACE DIV OF ITT 1200 SOUTH FLOWER STREET BURBANK,CALIFORNIA 91502 FORMERLY HARPER AER-O-LINE CO SUB ITT HARPER INC V33585 ITT HARPER INC CASTLETON DIV V70601,ITT HARPER INC V90123 IN MORTON GROVE, ILL AND ITT HARPER AEROSPACE FASTENERS IN GLENDALE, CALIFORNIA

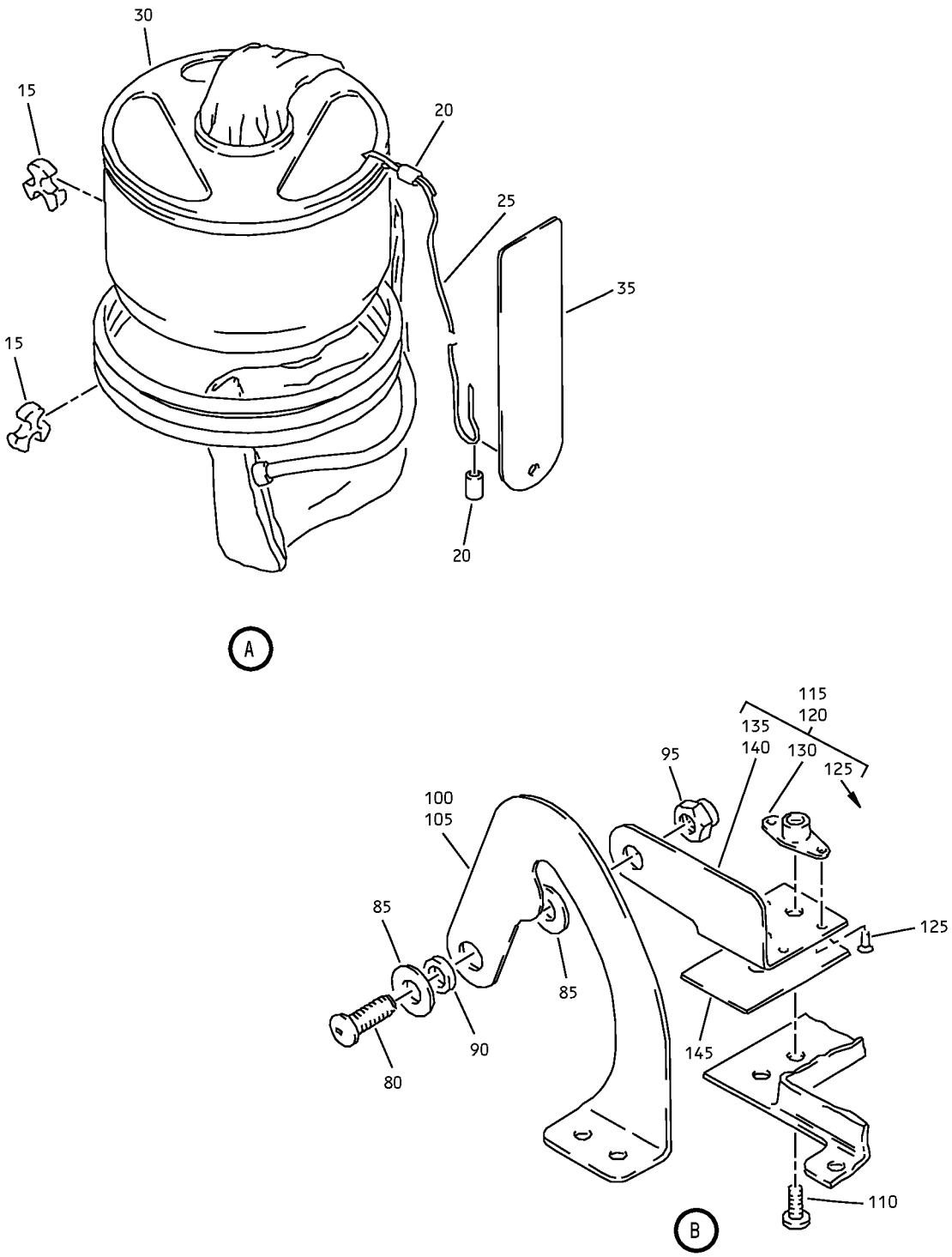
NUMERICAL INDEX

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
10-60137-17		1	30	2
10-60137-26		1	30A	2
		1	30C	2
10-60137-7		1	30B	2
10-60732-1		1	160	1
63-10155		1	15	4
65-53524-1		1	10	1
65-53524-4		1	25	2
65-58254-1		1	165	1
65-58255-1		1	1A	RF
65-58255-2		1	75	2
65-58255-3		1	1B	RF
66-15700-2		1	45	3
66-15702-1		1	90	2
66-25579-1		1	50	AR
66-35012		1	35	2
69-46213-1SP		1	60	2
69-46213-3		1	70	1
69-46214-1		1	115	1
69-46214-2		1	120	1
69-46214-3		1	135	1
69-46214-4		1	140	1
69-46214-5		1	105	1
69-46214-6		1	100	1
69-46214-7		1	145	2
69-56487-2		1	10A	1
69-56487-5		1	25A	2
BACN10MG8		1	40	3
		1	55	4
BACS13S128C		1	20	4
BACS21AQ2A3M		1	65	7
BACW10P193G		1	85	4
		1	85	4
GRC912616		1	40	3

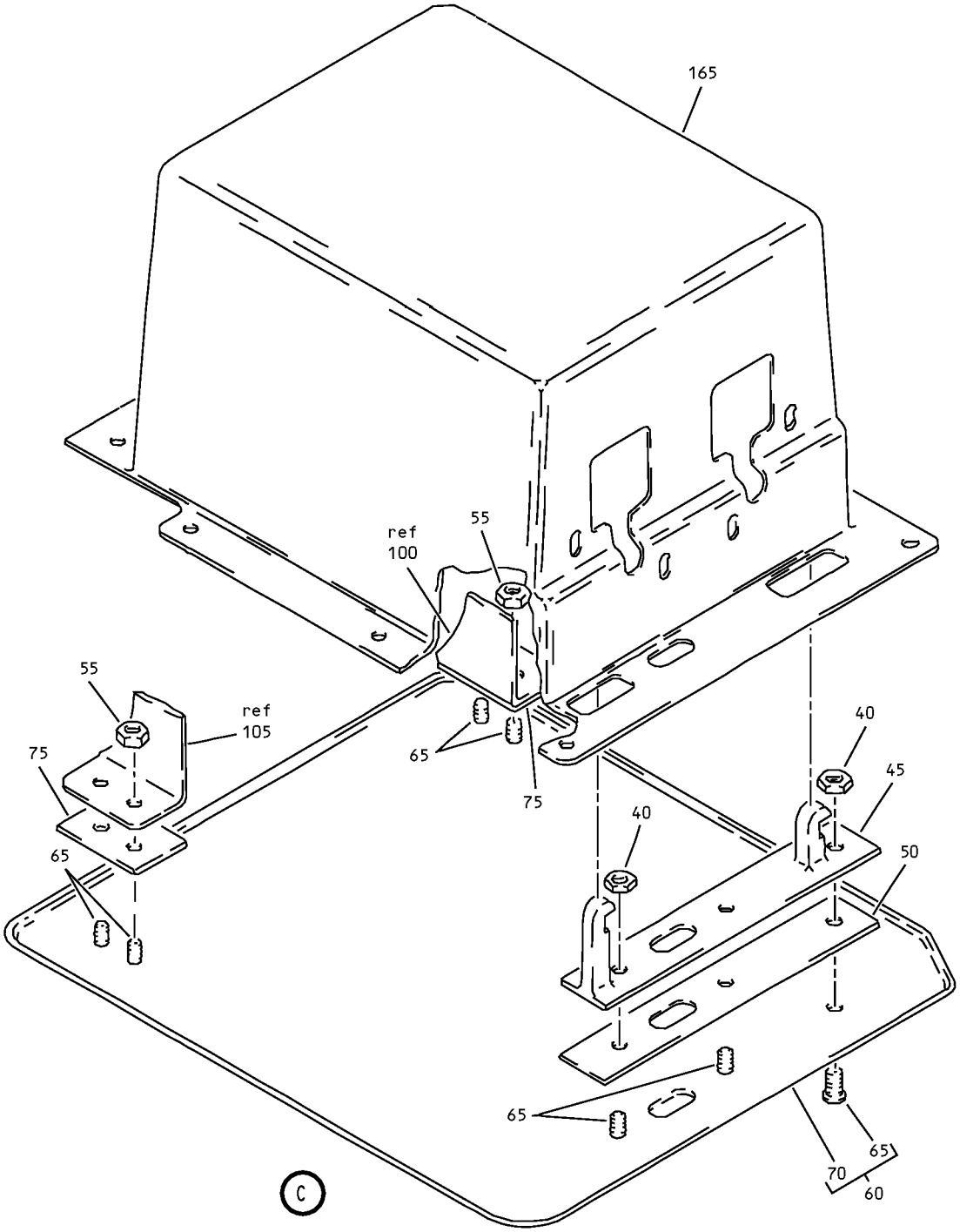
PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
		1	40	3
		1	40	3
		1	55	4
		1	55	4
		1	55	4
GSC128		1	20	4
MS20426D3		1	125	4
NAS602-6P		1	5	8
NAS602-8P		1	110	4
NAS603-16P		1	155	2
NAS603-20P		1	150	2
NAS603-9P		1	80	2
NAS679A3W		1	95	2
NAS680A08		1	130	2



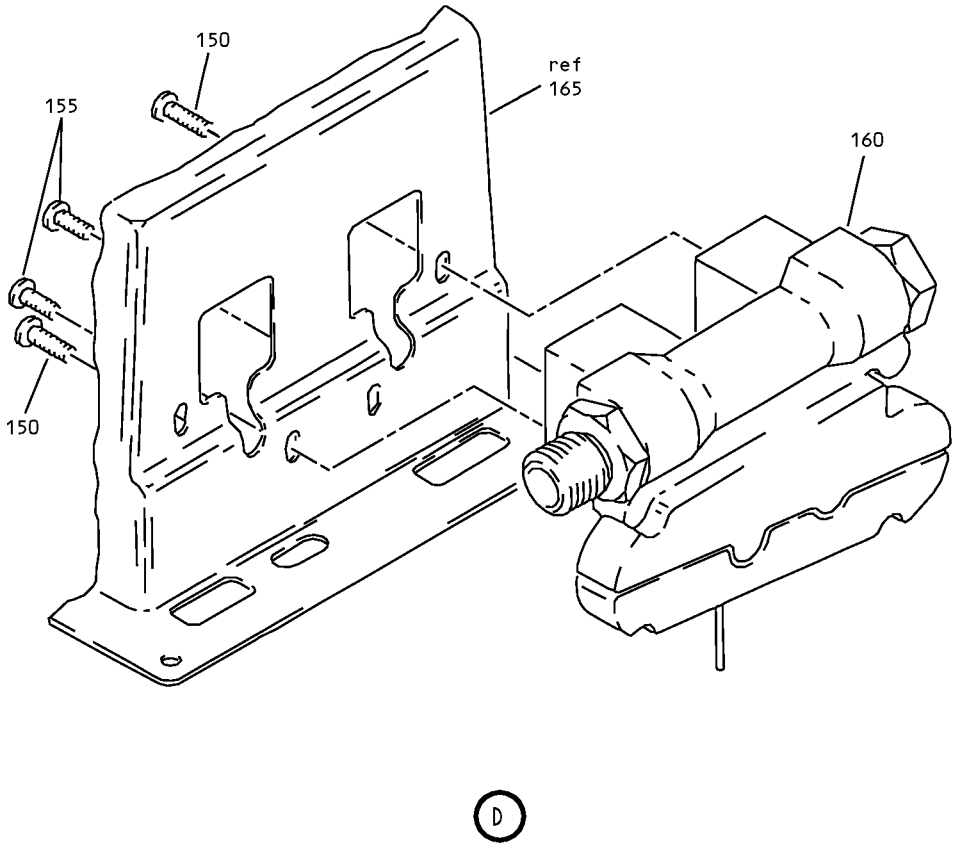
Forward Lavatory Oxygen Service Unit Installation
IPL Figure 1 (Sheet 1 of 4)



Forward Lavatory Oxygen Service Unit Installation
IPL Figure 1 (Sheet 2 of 4)



Forward Lavatory Oxygen Service Unit Installation
IPL Figure 1 (Sheet 3 of 4)



Forward Lavatory Oxygen Service Unit Installation
IPL Figure 1 (Sheet 4 of 4)

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
1–					
–1A	65-58255-1		OXYGEN SERVICE UNIT INSTL-FWD LAV	A	RF
–1B	65-58255-3		OXYGEN SERVICE UNIT INSTL-FWD LAV	B	RF
5	NAS602-6P		. SCREW		8
–10	65-53524-1		. MASK INSTL	A	1
–10A	69-56487-2		. MASK INSTL	B	1
15	63-10155		. . RETAINER-COIL		4
20	GSC128		. . SLEEVE (V59730) (SPEC BACS13S128C)		4
25	65-53524-4		. . TWINE	A	2
–25A	69-56487-5		. . TWINE	B	2
30	10-60137-17		. . MASK ASSY (OPT ITEM 30A, 30B)	A	2
–30A	10-60137-26		. . MASK ASSY (OPT ITEM 30, 30B)	A	2
–30B	10-60137-7		. . MASK ASSY (OPT ITEM 30, 30A)	A	2
–30C	10-60137-26		. . MASK ASSY	B	2
35	66-35012		. . PLACARD-EMERGENCY OXYGEN PULL		2
40	GRC912616		. NUT (V02751) (SPEC BACN10MG8) (OPT GRC912616 (V26365)) (OPT GRC912616 (V70601))		3
45	66-15700-2		. PLATE-HOOK		3
50	66-25579-1		. PACKING		AR
55	GRC912616		. NUT (V02751) (SPEC BACN10MG8) (OPT GRC912616 (V26365)) (OPT GRC912616 (V70601))		4
60	69-46213-1SP		. DOOR ASSY		2
65	BACS21AQ2A3M		. . STUD		7
70	69-46213-3		. . DOOR		1

–Item not Illustrated

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
1–					
75	65-58255-2		. SHIM		2
80	NAS603-9P		. SCREW		2
85	BACW10P193G		. WASHER (V10630) (SPEC BACW10P193G)		4
90	66-15702-1		. SPACER		2
95	NAS679A3W		. NUT		2
100	69-46214-6		. HINGE		1
105	69-46214-5		. HINGE		1
110	NAS602-8P		. SCREW		4
115	69-46214-1		. BRACKET ASSY-SPRT		1
120	69-46214-2		. BRACKET ASSY-SPRT		1
125	MS20426D3		. . RIVET (SIZE DETERMINED ON INST)		4
130	NAS680A08		. . NUTPLATE		2
135	69-46214-3		. . BRACKET (USED ON ITEM 115)		1
140	69-46214-4		. . BRACKET (USED ON ITEM 120)		1
145	69-46214-7		. PLATE-STRIKER		2
150	NAS603-20P		. SCREW		2
155	NAS603-16P		. SCREW		2
160	10-60732-1		. VALVE AND MANIFOLD ASSY-LATCH		1
165	65-58254-1		. BOX		1

–Item not Illustrated