



# **COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST**

## **CONTROL CABIN FOOT OUTLET ASSEMBLY**

### **PART NUMBER**

**65-55300-11, -12, -13, -14, -21, -22, -23, -24, -29,  
-30, -35, -36, 69-42775-41, -42, -45, -46, -49, -50,  
-53, -54, -55, -56**

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PAGE DATE: Jul 01/2009

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## COMPONENT MAINTENANCE MANUAL

Revision No. 9  
Jul 01/2009

To: All holders of CONTROL CABIN FOOT OUTLET ASSEMBLY 21-40-01.

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

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TRANSMITTAL LETTER  
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## COMPONENT MAINTENANCE MANUAL

Location of Change

Description of Change

NO HIGHLIGHTS

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HIGHLIGHTS

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## COMPONENT MAINTENANCE MANUAL

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O 1	Jul 01/2009	402	BLANK	1007	Mar 01/2006
2	BLANK	21-40-01 CHECK		1008	Mar 01/2006
21-40-01 TRANSMITTAL LETTER		501	Mar 01/2006	1009	Mar 01/2006
O 1	Jul 01/2009	502	BLANK	1010	Mar 01/2007
2	BLANK	21-40-01 REPAIR - GENERAL		1011	Mar 01/2007
21-40-01 HIGHLIGHTS		601	Mar 01/2007	1012	BLANK
O 1	Jul 01/2009	602	BLANK		
2	BLANK	21-40-01 REPAIR 1-1			
21-40-01 EFFECTIVE PAGES		601	Mar 01/2006		
1	Jul 01/2009	602	Mar 01/2006		
2	BLANK	21-40-01 REPAIR 2-1			
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2	BLANK	21-40-01 REPAIR 3-1			
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1	Mar 01/2006	602	Mar 01/2006		
2	BLANK	21-40-01 REPAIR 4-1			
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2	Mar 01/2006	21-40-01 REPAIR 5-1			
21-40-01 RECORD OF TEMPORARY REVISIONS		601	Mar 01/2007		
1	Mar 01/2006	602	BLANK		
2	Mar 01/2006	21-40-01 ASSEMBLY			
21-40-01 INTRODUCTION		701	Mar 01/2006		
1	Mar 01/2009	702	BLANK		
2	BLANK	21-40-01 FITS AND CLEARANCES			
21-40-01 DESCRIPTION AND OPERATION		801	Mar 01/2006		
1	Mar 01/2006	802	BLANK		
2	BLANK	21-40-01 SPECIAL TOOLS, FIXTURES, AND EQUIPMENT			
21-40-01 TESTING AND FAULT ISOLATION		901	Mar 01/2006		
101	Mar 01/2006	902	BLANK		
102	BLANK	21-40-01 ILLUSTRATED PARTS LIST			
21-40-01 DISASSEMBLY		1001	Nov 01/2008		
301	Mar 01/2006	1002	Jul 01/2006		
302	BLANK	1003	Mar 01/2007		
21-40-01 CLEANING		1004	Mar 01/2007		
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		1006	Mar 01/2006		

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

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EFFECTIVE PAGES

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TESTING AND FAULT ISOLATION		101
DISASSEMBLY	(Not Applicable)	
CLEANING	(Not Applicable)	
CHECK	(Not Applicable)	
REPAIR		601
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FITS AND CLEARANCES	(Not Applicable)	
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## COMPONENT MAINTENANCE MANUAL

### 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.

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INTRODUCTION

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## COMPONENT MAINTENANCE MANUAL

### CONTROL CABIN FOOT OUTLET ASSEMBLY - DESCRIPTION AND OPERATION

#### **1. Description and Operation**

A. The control cabin foot outlet assembly consists of a glass reinforced plastic valve body and valve assemblies. The valve assemblies are controlled by cranks. The cranks are operated by push-pull rods. The valve assemblies control the amount of cooling air that is directed on to the pilot's and co-pilot's feet.

#### **2. Leading Particulars (Approximate)**

- A. Weight - 1 pound
- B. Diameter - 8 inches
- C. Thickness - 3 inches

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DESCRIPTION AND OPERATION

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## COMPONENT MAINTENANCE MANUAL

### TESTING AND FAULT ISOLATION

#### 1. Functional Test

- A. Visually check that each valve makes contact fully around on the seal with no more than 1 pound force applied to the crank arm.

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TESTING AND FAULT ISOLATION

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**DISASSEMBLY**

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DISASSEMBLY

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**CLEANING**

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CLEANING  
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CHECK

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CHECK  
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## COMPONENT MAINTENANCE MANUAL

### REPAIR

#### 1. Content

A. Instructions for repair, refinish and replacement procedures are divided into procedures as follows:

**Table 601:**

<b>P/N</b>	<b>NAME</b>	<b>REPAIR</b>
69-42780	RETAINER	1-1
65-55300	VALVE ASSEMBLY	2-1
69-42775-7, -8	VALVE BODY ASSEMBLY	3-1
69-42775-41, -42, -45, -46, -49, -50, -53, -54, -55, -56	VALVE BODY ASSEMBLY	4-1
—	MISC PARTS REFINISH	5-1

#### 2. Standard Practices

A. Refer to these standard practices for details of the procedures in the repairs.

- SOPM 20-30-02 Stripping of Protective Finishes
- SOPM 20-30-03 General Cleaning Procedure
- SOPM 20-41-01 Decoding Table for Boeing Finish Codes
- SOPM 20-50-12 Application of Adhesives
- SOPM 20-60-02 Finishing Materials
- SOPM 20-60-04 Miscellaneous Materials

#### 3. Materials

- A. adhesive, A00028 BAC 5010, Type 70 Adhesive
- B. adhesive, A50091 BAC5010, Type 82 Adhesive
- C. primer, C00259 BMS 10-11, Type 1 Primer
- D. sealant, A00551 BAC 5010, Type 44 Sealant

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REPAIR - GENERAL

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## COMPONENT MAINTENANCE MANUAL

### RETAINER - REPAIR 1-1

69-42780-3, -4

#### 1. General

- A. This procedure has the data to repair the initial finish of the retainer (150).
- B. Refer to REPAIR-GENERAL, Paragraph 2. for the Standard Overhaul Practices Manual (SOPM) subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Paragraph 3. for the description of the consumable codes identified in this procedure.
- D. Refer to IPL Figure 1 for the item numbers.

#### 2. Finish Repair

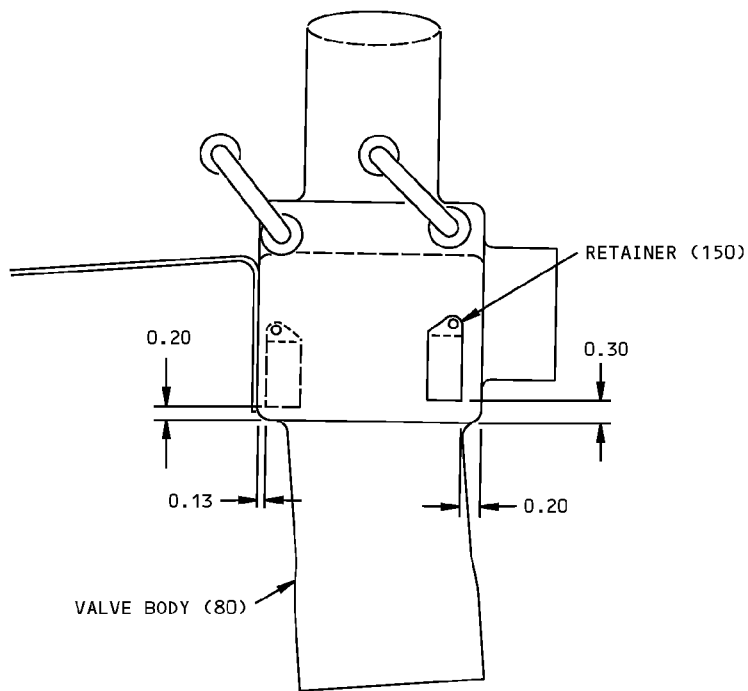
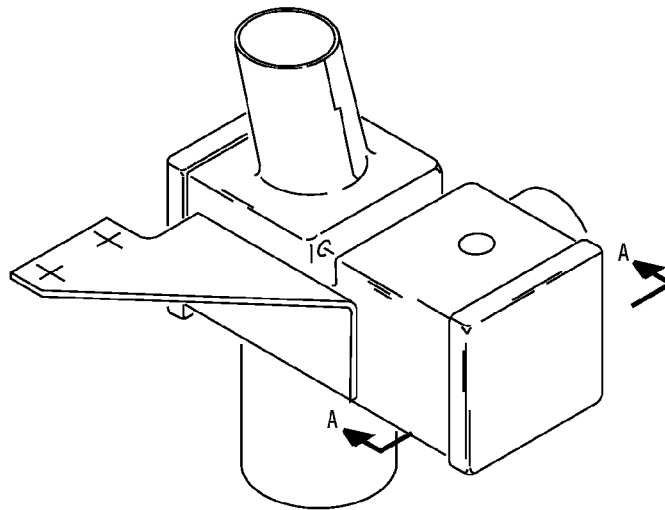
- A. Refer to REPAIR 1-1, Figure 601 for retainer repair.

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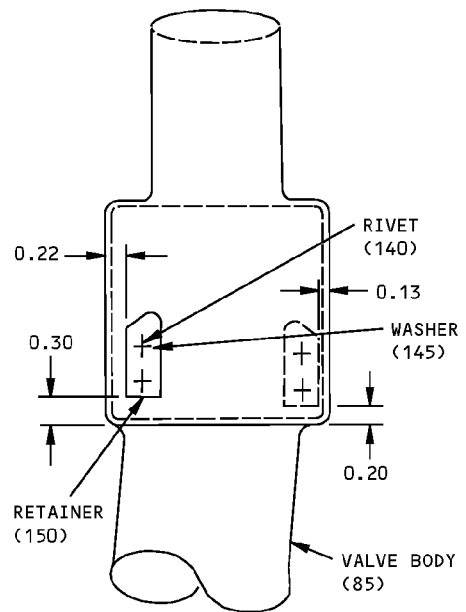
REPAIR 1-1  
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A-A 1



A-A 2

- 1 65-55300-11, -13, -21, -23, -29, -35
- 2 65-55300-12, -14, -22, -24, -30, -36

69-42780-3, -4

ITEM NUMBERS REFER TO IPL FIG. 1  
ALL DIMENSIONS ARE IN INCHES

Retainer Repair (150)  
Figure 601

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REPAIR 1-1  
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## COMPONENT MAINTENANCE MANUAL

### VALVE ASSEMBLY - REPAIR 2-1

65-55300-3, -4, -9, -10, -15, -16, -17, -18

#### 1. General

- A. This procedure has the data to repair the initial finish of the valve assembly (10, 20).
- B. Refer to REPAIR-GENERAL, Paragraph 2. for the Standard Overhaul Practices Manual (SOPM) subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Paragraph 3. for the description of the consumable codes identified in this procedure.
- D. Refer to IPL Figure 1 for the item numbers.

#### 2. Finish Repair

- A. Refer to REPAIR 2-1, Figure 601 for valve assembly repair.

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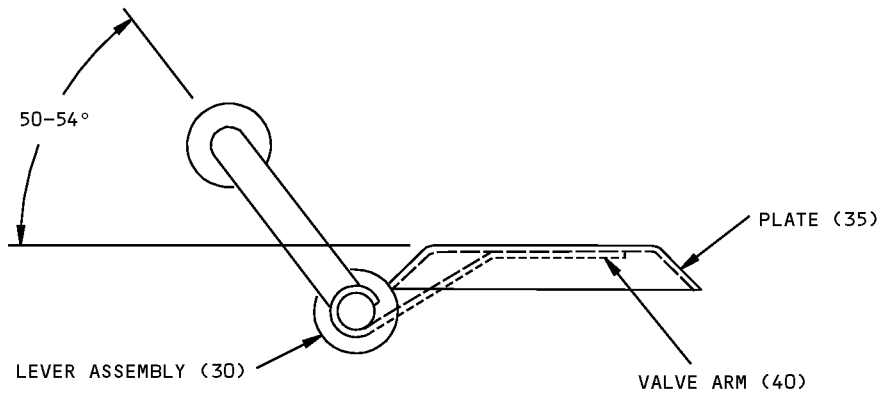
REPAIR 2-1

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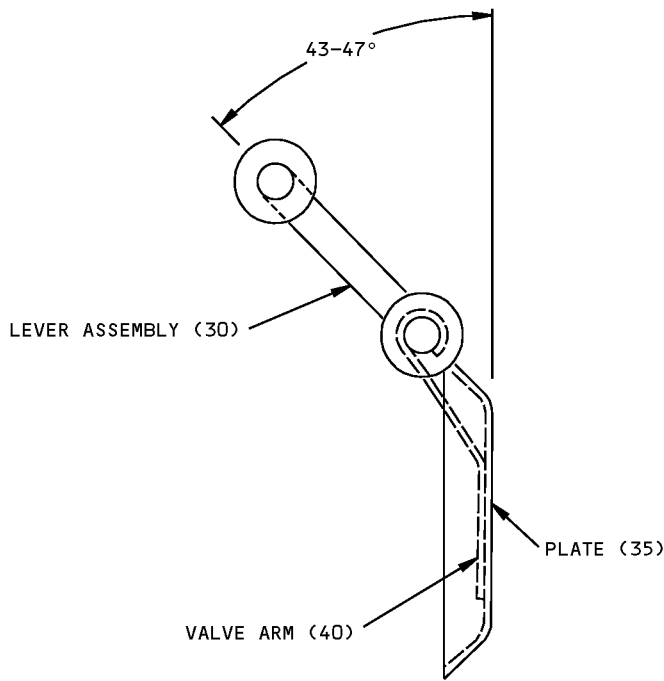
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65-55300-17,-18  
65-55300-9,-10 OPPOSITE



65-55300-15,-16  
65-55300-3,-4 OPPOSITE

Valve Assembly Repair (10,15)  
Figure 601

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REPAIR 2-1  
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## COMPONENT MAINTENANCE MANUAL

### VALVE BODY ASSEMBLY - REPAIR 3-1

69-42775-7, -8

#### 1. General

- A. This procedure has the data to repair the initial finish of the valve body assembly (80).
- B. Refer to REPAIR-GENERAL, Paragraph 2. for the Standard Overhaul Practices Manual (SOPM) subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Paragraph 3. for the description of the consumable codes identified in this procedure.
- D. Refer to IPL Figure 1 for the item numbers.

#### 2. Refinish

- A. Refer to REPAIR 3-1, Figure 601 for valve body assembly repair (80).

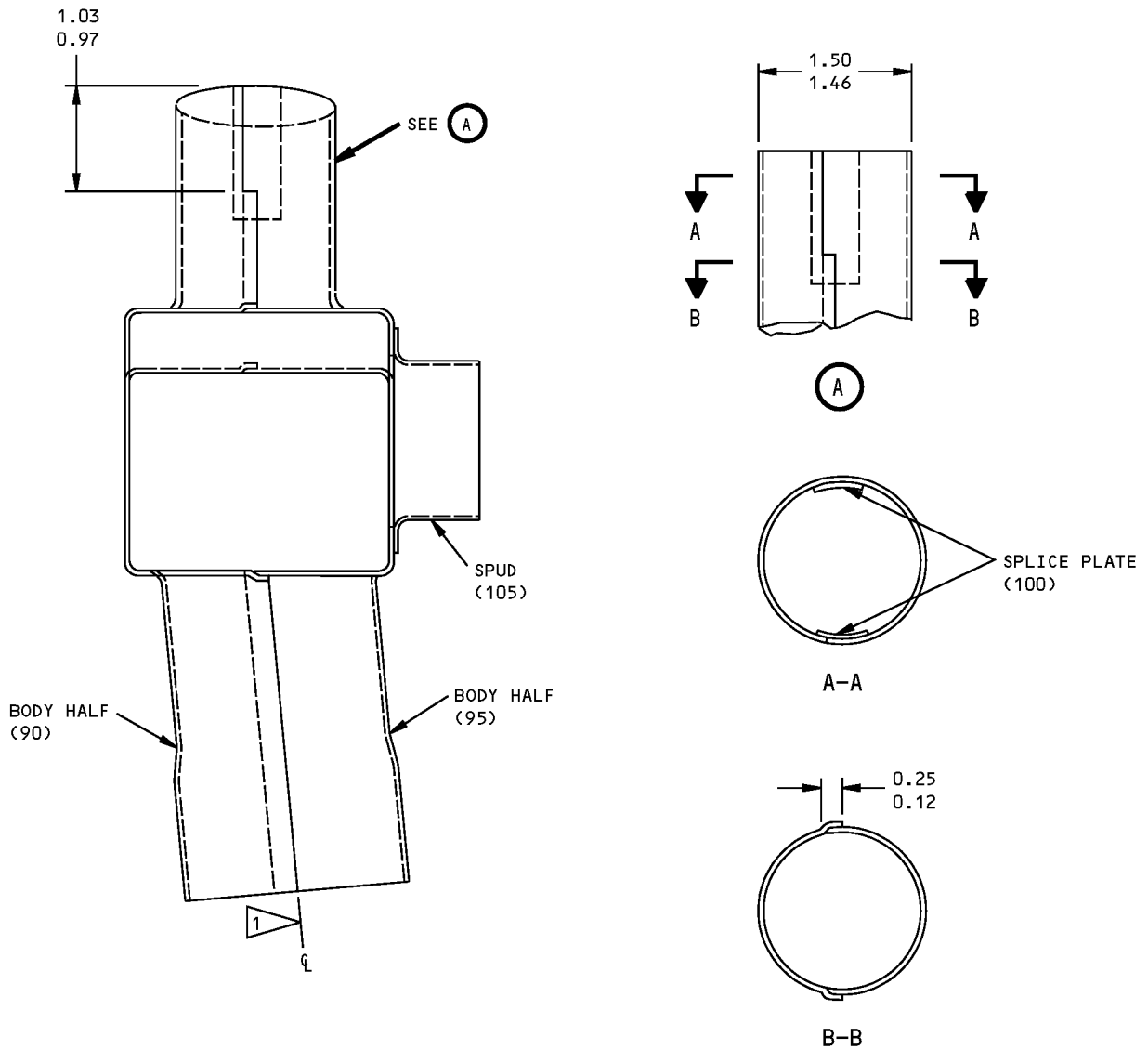
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REPAIR 3-1

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1 SEAL ALL SEAMS AND VOIDS 20-50-12, TYPE 44.  
OPTIONAL BOND 20-50-12, TYPE 82 OR TYPE 70.

ALL DIMENSIONS ARE IN INCHES

Valve Body Assembly Repair (60)  
Figure 601

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REPAIR 3-1  
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## COMPONENT MAINTENANCE MANUAL

### VALVE BODY ASSEMBLY - REPAIR 4-1

69-42775-41, -42, -45, -46

#### 1. General

- A. This procedure has the data to repair the initial finish of the valve body assembly (5, 10, 15, 20).
- B. Refer to REPAIR-GENERAL, Paragraph 2. for the Standard Overhaul Practices Manual (SOPM) subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Paragraph 3. for the description of the consumable codes identified in this procedure.
- D. Refer to IPL Figure 2 for the item numbers.

#### 2. Refinish

- A. Refer to REPAIR 4-1, Figure 601 for valve body assembly repair.

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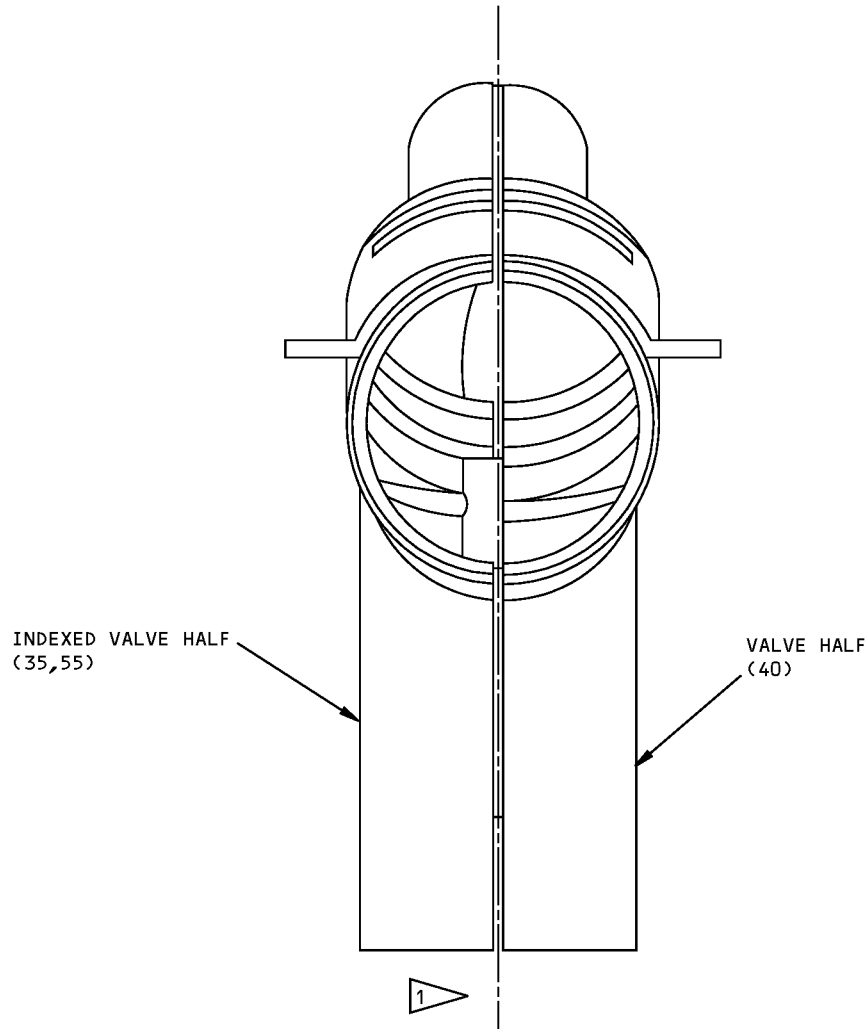
REPAIR 4-1

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1 BOND FAYING SURFACES AS SHOWN IN  
SOPM 20-50-12, TYPE 70.

Valve Body Assembly Repair  
Figure 601

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REPAIR 4-1

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## COMPONENT MAINTENANCE MANUAL

### MISCELLANEOUS PARTS REFINISH - REPAIR 5-1

#### 1. General

- A. This procedure has the data necessary to refinish the parts which are not given in other repairs.
- B. Refer to REPAIR-GENERAL, Paragraph 2. for the Standard Overhaul Practices Manual (SOPM) subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Paragraph 3. for the description of the consumable codes identified in this procedure.
- D. Refer to IPL Figure 1 and IPL Figure 2 for the item numbers.

#### 2. Refinish

- A. Repair of parts listed in REPAIR 5-1, Table 601 consists of restoration of the original finish.

**Table 601:** Refinish Details

IPL FIG. & ITEM	MATERIAL	FINISH
IPL Fig. 1		
Retainer (150)	AISI 302 CRES	No finish required (F-25.01).
Lever Assembly (30)	AISI 321 CRES Annealed	No finish required (F-25.01).
Valve Body (80,85)	Thermosetting resin impregnated aramid fiber fabric. Polycarbonate.	No finish required (F-25.01).
Bracket (130,135)	Al alloy	Alodize (SRF 2.31)
IPL Fig. 2		
Bracket (50)	Al alloy	Chemical treat and apply primer, C00259 (F-18.06).
Plate (85)	Al alloy	Anodize (F-17.31) and apply primer, C00259 (F-20.02).
Spud (65)	Al alloy	Chemical treat (F-17.08).

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REPAIR 5-1

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**ASSEMBLY**

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ASSEMBLY

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**FITS AND CLEARANCES**

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FITS AND CLEARANCES

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**SPECIAL TOOLS, FIXTURES, AND EQUIPMENT**

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SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

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## COMPONENT MAINTENANCE MANUAL

### 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

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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.

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## COMPONENT MAINTENANCE MANUAL

### NUMERICAL INDEX

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
214A1502-3		2	85	1
214T3488-265		2	65	1
65-55300-10		1	25	1
65-55300-11		1	1	RF
65-55300-12		1	5	RF
65-55300-13		1	1A	RF
65-55300-14		1	5A	RF
65-55300-15		1	10A	1
65-55300-16		1	15A	1
65-55300-17		1	20A	1
65-55300-18		1	25A	1
65-55300-21		1	1B	RF
65-55300-22		1	5B	RF
65-55300-23		1	1C	RF
65-55300-24		1	5C	RF
65-55300-29		1	1D	RF
65-55300-3		1	10	1
65-55300-30		1	5D	RF
65-55300-35		1	1E	RF
65-55300-36		1	5E	RF
65-55300-4		1	15	1
65-55300-9		1	20	1
69-42774-1		1	30	1
69-42774-13		1	45A	1
69-42774-17		1	45	1
69-42774-3		1	35	1
69-42774-9		1	75	2
69-42775-10		1	95	1
69-42775-11		1	90A	1
69-42775-12		1	95A	1
69-42775-14		1	100	2
69-42775-15		1	80	1
69-42775-16		1	85	1
69-42775-18		1	105	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
69-42775-19		1	130A	1
69-42775-20		1	135A	1
69-42775-31		1	80B	1
69-42775-32		1	85B	1
69-42775-35		2	25	2
69-42775-36		2	30	2
69-42775-38		2	35	1
69-42775-39		2	40	1
69-42775-4		1	75A	2
		1	130	1
69-42775-41		2	5	RF
69-42775-42		2	5A	RF
		2	10	RF
69-42775-43		2	45	1
69-42775-44		2	50	1
69-42775-45		2	5B	RF
		2	15	RF
69-42775-46		2	5C	RF
		2	20	RF
69-42775-47		2	35A	1
		2	55	1
69-42775-48		2	30A	2
		2	60	1
69-42775-49		2	5D	RF
69-42775-5		1	40	1
		1	135	1
69-42775-50		2	5E	RF
69-42775-53		2	5F	RF
69-42775-54		2	5G	RF
69-42775-55		2	5H	RF
69-42775-56		2	5J	RF
69-42775-7		1	80A	1
69-42775-8		1	85A	1
69-42775-9		1	90	1
69-42780-3		1	150	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
69-42780-4		1	150A	1
69-47862-7		1	60	1
69-47862-8		1	65	1
AN737TW48		1	70	1
AN960PD3		1	125	K 4
AN960PD4		1	145	AR
BACR15BA5AD(-)C		2	90	2
BACR15BB4A		1	140	2
BACS12GU3K7		2	80	1
MS20470A		1	120	4
MS20615-2M3		1	50	2
MS20615-2M5		1	55	2
MS21042L3		2	75	1
MS24665-151		1	155	2
NAS1149DD332J		2	70	2
NAS557-3A		1	165	4
NAS620C10		1	160	AR

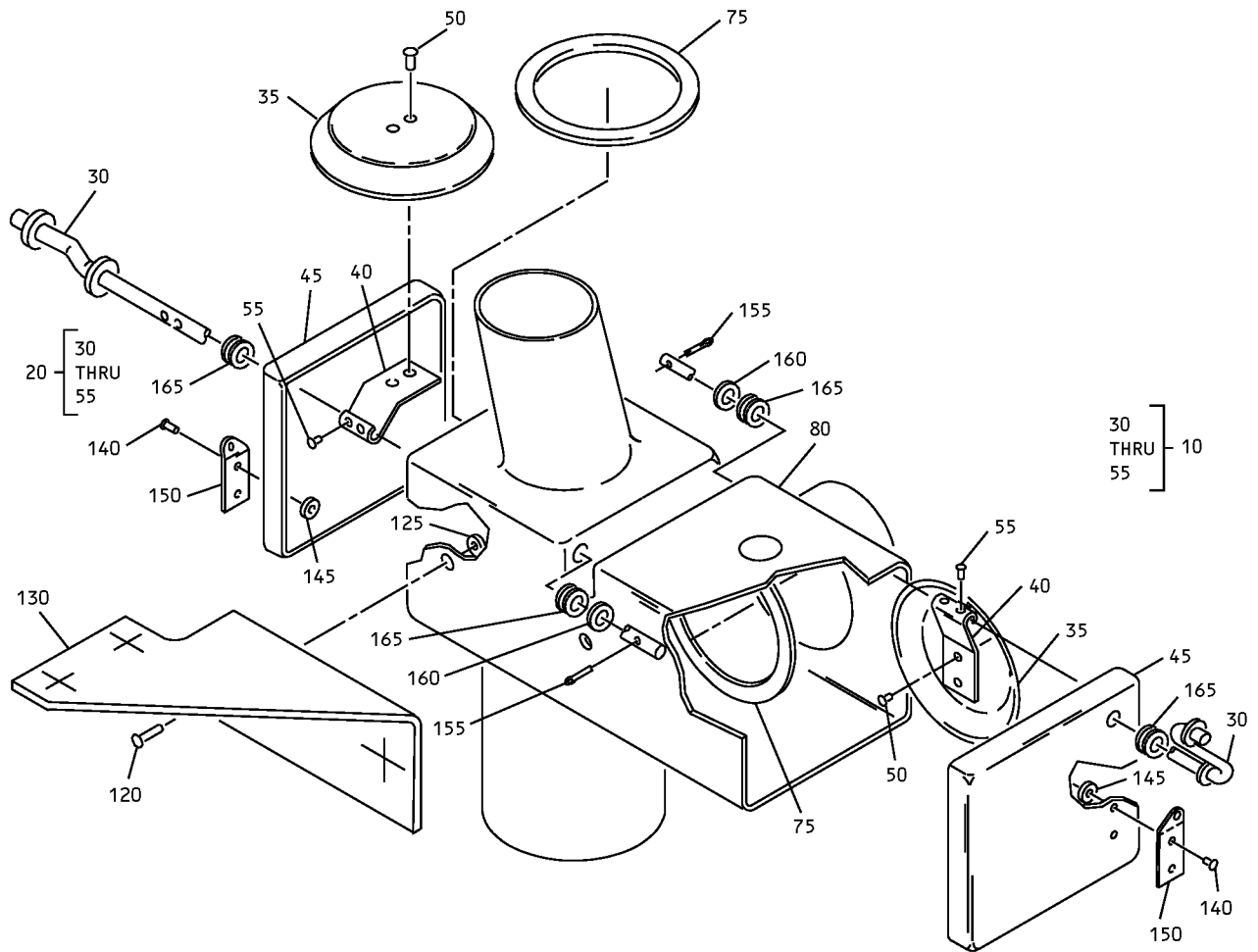
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COMPONENT MAINTENANCE MANUAL



Foot Outlet Assembly  
IPL Figure 1

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1-											
1	65-55300-11									A	RF
-1A	65-55300-13									C	RF
-1B	65-55300-21									E	RF
-1C	65-55300-23									G	RF
-1D	65-55300-29									I	RF
-1E	65-55300-35									K	RF
-5	65-55300-12									B	RF
-5A	65-55300-14									D	RF
-5B	65-55300-22									F	RF
-5C	65-55300-24									H	RF
-5D	65-55300-30									J	RF
-5E	65-55300-36									L	RF
10	65-55300-3									A, I, K	1
											(OPPOSITE ITEM 15)
-10A	65-55300-15									C, E, G	1
											(OPPOSITE ITEM 15A)
-15	65-55300-4									B, J, L	1
											(OPPOSITE ITEM 10)
-15A	65-55300-16									D, F, H	1
											(OPPOSITE ITEM 10A)
20	65-55300-9									A, I, K	1
											(OPPOSITE ITEM 25)
-20A	65-55300-17									C, E, G	1
											(OPPOSITE ITEM 25A)
-25	65-55300-10									B, J, L	1
											(OPPOSITE ITEM 20)
-25A	65-55300-18									D, F, H	1
											(OPPOSITE ITEM 20A)
30	69-42774-1										1
35	69-42774-3										1
40	69-42775-5										1
45	69-42774-17										1
											(USED ON ITEMS 10, 15, 20, 25)

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1-											
-45A	69-42774-13		. .	CAP							1
				(USED ON ITEMS 10A, 15A, 20A, 25A)							
50	MS20615-2M3		. .	RIVET							2
55	MS20615-2M5		. .	RIVET							2
-60	69-47862-7		. .	DIFFUSER ASSY					A, C		1
-65	69-47862-8		. .	DIFFUSER ASSY					B, D		1
-70	AN737TW48		. .	CLAMP					A-D		1
75	69-42774-9		. .	SEAL							2
-75A	69-42775-4		. .	SEAL							2
				(OPT ITEM 60)							
80	69-42775-15		. .	BODY-VALVE					A		1
-80A	69-42775-7		. .	BODY ASSY-VALVE					C, E, G		1
-80B	69-42775-31		. .	BODY-VALVE					I, K		1
-85	69-42775-16		. .	BODY-VALVE					B		1
-85A	69-42775-8		. .	BODY ASSY-VALVE					D, F, H		1
-85B	69-42775-32		. .	BODY-VALVE					J, L		1
-90	69-42775-9		. .	BODY HALF-VALVE							1
				(USED ON ITEM 80A)							
				(OPPOSITE ITEM 100)							
-90A	69-42775-11		. .	BODY HALF-VALVE USED ON ITEM 80A)							1
				(OPPOSITE ITEM 105)							
-95	69-42775-10		. .	BODY HALF-VALVE							1
				(USED ON ITEM 85A)							
				(OPPOSITE ITEM 90)							
-95A	69-42775-12		. .	BODY HALF-VALVE							1
				(USED ON ITEM 85A)							
				(OPPOSITE ITEM 95)							
-100	69-42775-14		. .	PLATE-SPLICE							2
				(USED ON ITEMS 80A, 85A)							
-105	69-42775-18		. .	SPUD							1
				(USED ON ITEMS 80A, 85A)							
120	MS20470A		. .	RIVET							4
125	AN960PD3		. .	WASHER					I, J, L		K 4
130	69-42775-4		. .	BRACKET					A, C		1

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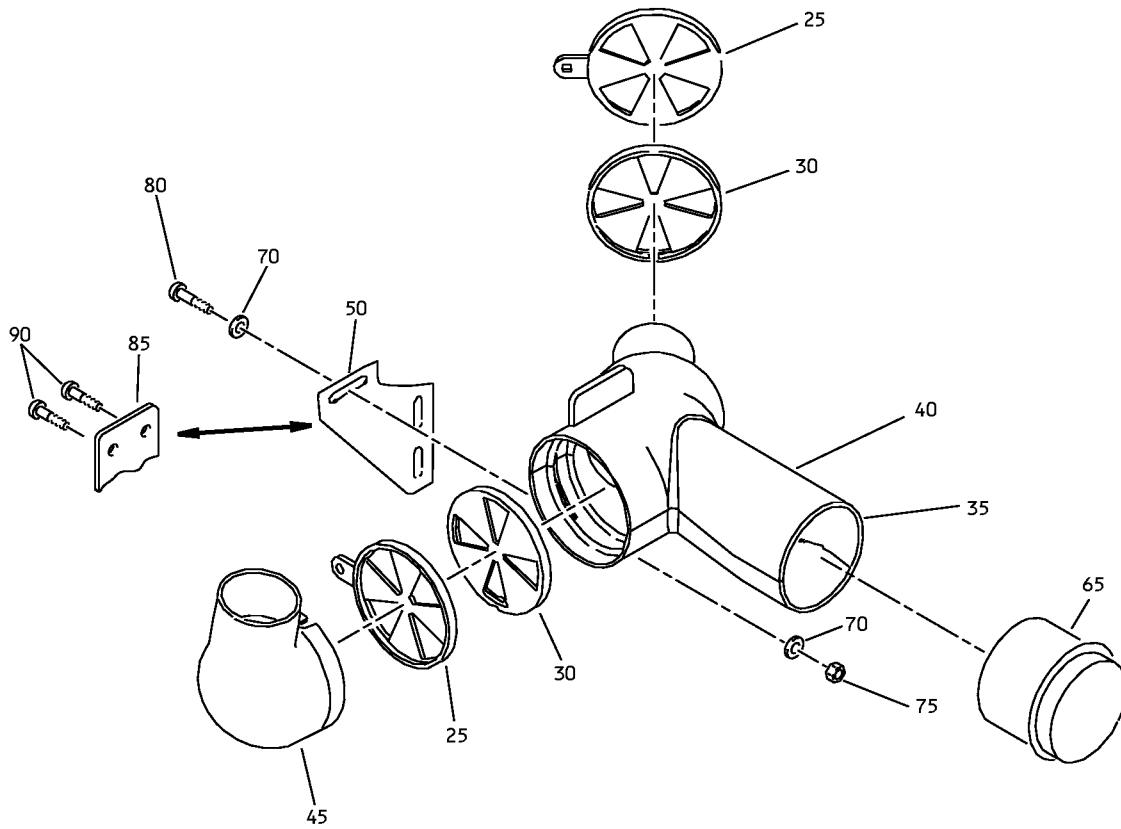


## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1-											
-130A	69-42775-19		.	BRACKET						E, G, I, K	1
-135	69-42775-5		.	BRACKET						B, D	1
-135A	69-42775-20		.	BRACKET						F, H, J, L	1
140	BACR15BB4A		.	RIVET						E-L	2
145	AN960PD4		.	WASHER						E-L	AR
150	69-42780-3		.	RETAINER						A-D	1
-150A	69-42780-4		.	RETAINER						E-L	1
155	MS24665-151		.	PIN-COTTER							2
160	NAS620C10		.	WASHER						E-L	AR
165	NAS557-3A		.	GROMMET							4

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Valve Body Assembly  
IPL Figure 2

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