

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

TO: ALL HOLDERS OF RAM AIR DEFLECTOR EXTENSION LINK ASSEMBLY OVERHAUL MANUAL,  
 21-50-01

REVISION NO. 0, DATED JUL 5/81

HIGHLIGHTS

DESCRIPTION OF CHANGE	TOPICS AFFECTED												
	D & O	D/Assy	Cleaning	Insp/Chk	Repair	Assy	F/C	Test	T/Shooting	S/Tools	Storage	IPL	L/Overhaul
Added new manual 21-50-01 for ram air deflector extension link assembly 65-67906-4	X	X	X	X	X	X					X	X	

# RAM AIR DEFLECTOR EXTENSION LINK ASSEMBLY

## 21-50-01

BOEING P/N 65-67906-4

AIRLINE P/N

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THE FOLLOWING DIRECTIVES APPLY TO THIS SUBJECT:

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVES	DATE DIRECTIVE INCORPORATED INTO TEXT

**OVERHAUL MANUAL**

LIST OF EFFECTIVE PAGES					
* Indicates pages revised, added or deleted in latest revision					
F Indicates foldout pages - print one side only					
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21-50-01					
* T-1	Jul 5/81				
* T-2	BLANK				
* LEP-1	Jul 5/81				
* LEP-2	BLANK				
* T/C-1	Jul 5/81				
* T/C-2	BLANK				
* 1	Jul 5/81				
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\*[1] Special instructions not required. Use standard industry practices and the information contained in 20-30-01, and 20-30-03.

\*[2] Special instructions not required. Use standard industry practices and the information contained in 20-44-02 and 20-70-01.

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RAM AIR DEFLECTOR EXTENSION LINK ASSEMBLY

1. DESCRIPTION AND OPERATION

- A. The ram air deflector extension link assembly is a cylindrical load-absorbing unit consisting of spring, tube, rod, collar, bushing, and rod end bearings. The link is part of deflector door linkage in the air conditioning system.
- B. Leading Particulars  
Diameter -- 0.50 inch  
Length -- 11 inches

2. DISASSEMBLY

- A. Loosen jamnut (10). Remove rod end (5), jamnut (10). Loosen screws (15), and remove rod end (20) and nut (25).

CAUTION: SPRING (45) IS COMPRESSED APPROXIMATELY 50 POUNDS. EXERCISE CARE WHEN REMOVING SCREWS (15) AND ROD END (30).

- B. Remove screws (15) and parts (30 thru 50) from tube (55).

3. INSPECTION/CHECK

- A. Check all parts for obvious defects in accordance with standard industry practices.
- B. Magnetic particle check rod end (30), rod (35), spring (45), tube (55) per 20-20-01.
- C. Compress spring (45) to 4.5 inches. Load shall be 120-140 lb.  
Compress spring to 5.75 inches. Load shall be 27-33 lb. Free length is 6.13 inches.

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4: REPAIR

A. Repair minor defects in accordance with standard industry practices. Other repair consists of restoration of original finish. Refer to Refinish for details.

B. Refinish

NOTE: Refer to 20-30-02 for stripping of protective finishes and to 20-41-01 for explanation of F and SRF finish codes.

- (1) Rod end (30) -- Cadmium plate (F-1.1926). Material: 4130 steel
- (2) Rod (35) -- Cadmium plate (F-1.1926). Material: 4130 steel, 125-145 ksi
- (3) Spring (45) -- Cadmium plate (F-1.1926), followed by dry film lubricant BMS 3-8 per 20-50-08, method 3. Material: Chrome-silicon steel, QQ-W-412, or music wire, QQ-W-4-70
- (4) Tube (55) -- Cadmium plate and apply primer, MIL-P-8585, color Y (F-1.285). Material: 4130 steel

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5. ASSEMBLY

## A. Materials

Grease -- MIL-G-21164 (Ref 20-60-03)

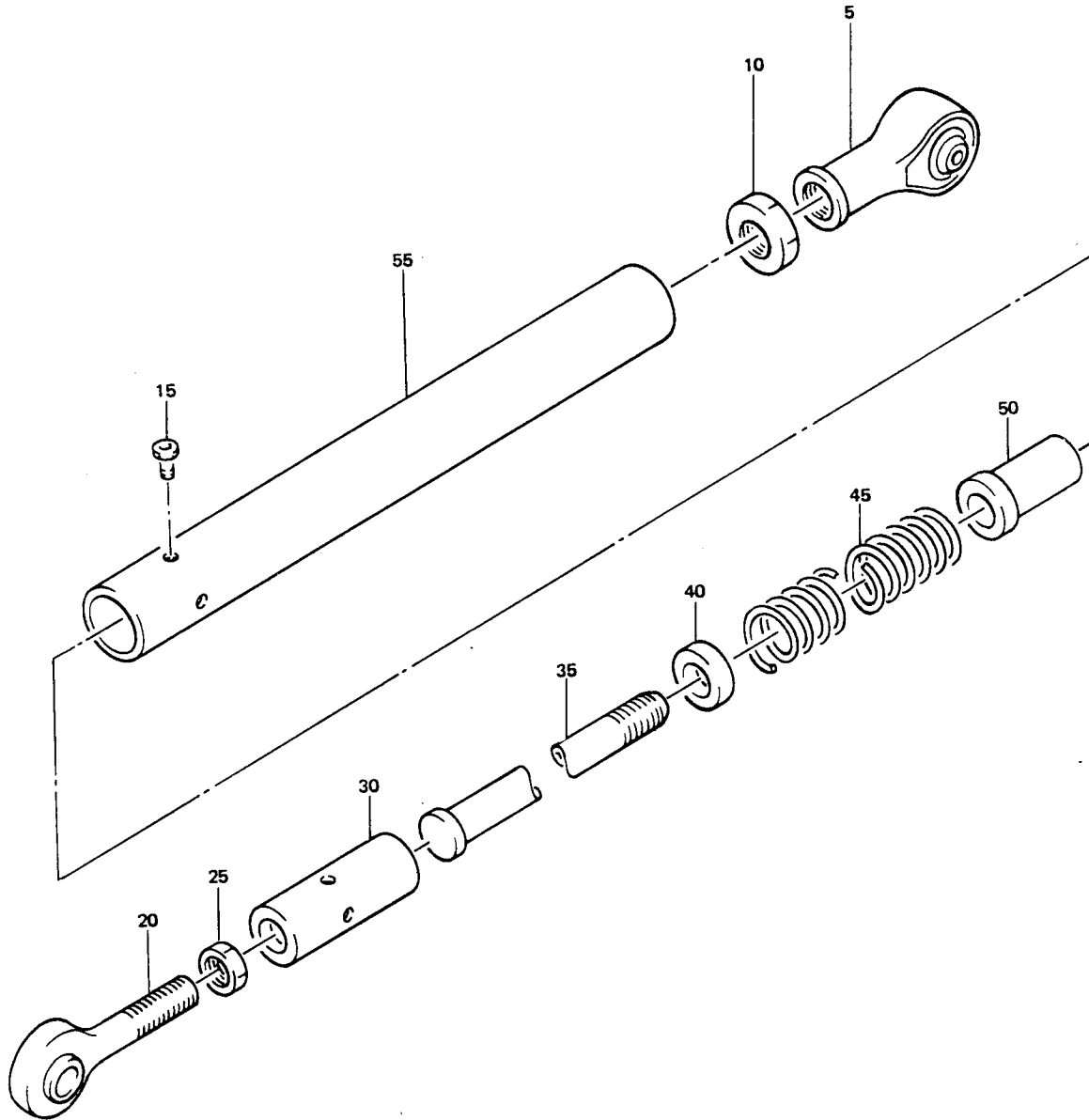
Corrosion Preventive Compound -- MIL-C-16173, grade 2 (Ref 20-60-03)

Retaining Compound -- Loctite Grade A (Ref 20-60-04)

NOTE: Lightly lubricate inner diameter of tube (55) and outer diameter of internal sliding parts with grease. Apply corrosion preventive compound to threads of rod end bearings (5, 20). Apply retaining compound to threads of rod end bearing (20) at assembly.

- B. Insert collar (50) and spring (45) into tube (55).
- C. Slide bushing (40) over rod (35) and insert into tube (55) through spring (45).
- D. Insert rod end (30) into tube (55). Install screws (15).
- E. Install nut (25) on rod end bearing (20) and install in rod end (35).
- F. Install jamnut (10) on rod end (5).
- G. Install rod end bearing (5) on collar and turn into tube until length of 10.74-10.76 inches is obtained between bearing bore centers, and both rod end bearings are aligned in the same plane.
- H. Tighten jamnut (10) until all play is eliminated from unit.

6. ILLUSTRATED PARTS LIST



Ram Air Deflector Extension Link Assembly  
Figure 1



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FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	N O M E N C L A T U R E							USE CODE	QTY PER ASSY
			1	2	3	4	5	6	7		
1- 1	65-67906-4		EXTENSION LINK ASSY, RAM AIR DEFLECTOR								RF
5	BACB10A449		. BEARING, ROD END								1
10	AN316-5R		. NUT, JAM								1
15	BACS12AF4P		. SCREW								3
15	AN500A8-4		. SCREW (OPT)								3
20	BACB10A432		. BEARING, ROD END								1
20	BACB10A57		. BEARING, ROD END								1
20	65-67906-3		. BEARING, ROD END (OPT)								1
20	65-67906-5		. BEARING, ROD END (OPT)								1
20	65-67906-6		. BEARING, ROD END (OPT)								1
25	AN316-3R		. NUT								1
30	69-47888-3		. ROD END								1
35	69-47889-1		. ROD								1
40	69-47889-3		. BUSHING								1
45	69-38756-1		. SPRING								1
50	69-47888-2		. COLLAR								1
55	69-47889-2		. TUBE								1