RADAR ROTATION MODULE ASSEMBLY (P3-6)

34-41-01

BOEING P/N 69-37356

AIRLINE P/N

THIS SUBJECT APPLIES TO THE FOLLOWING BOEING AIRPLANE MODELS:

707 STRATOLINER	707 INTERCONTINENTAL	720	727	737
NONE	NONE	NONE	NONE	LIMITED

THE FOLLOWING DIRECTIVES APPLY TO THIS SUBJECT:

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

LIST OF EFFECTIVE PAGES

* Indicates pages revised, added or deleted in latest revision

F Indicates foldout pages - print one side only

PAGE	DATE	PAGE	DATE	PAGE	DATE
34-41-01					
* T-1	Aug 15/69				
T-2	BLANK				
* LEP-1	Aug 15/69				
LEP-2	BLANK				
* T/C-1	Aug 15/69				
T/C-2	BLANK				
* 1	Aug 15/69				
* 2	Aug 15/69				
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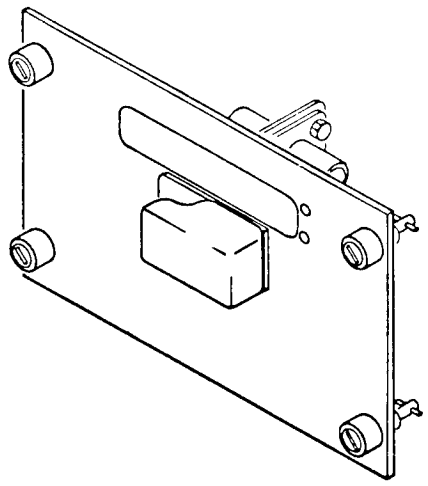
Boeing Part Number: 69-37356-1



Radar Rotation Module Assembly
Figure 1

1. DESCRIPTION AND OPERATION

A. Description

(1) The radar rotation module assembly consists of a switch mounted on a baseplate.

B. Operation

(1) The radar rotation module assembly provides manual control of radar rotation.

C. Leading Particulars

Length -- 7 inches (approximately)
Width -- 5 inches (approximately)
Thickness - 2 inches (approximately)
Weight -- 1 pound (approximately)

2. DISASSEMBLY

A. General

(1) Disassemble only as necessary for cleaning, inspection, repair, and replacement of components.

(2) Unsolder wiring connections and remove connector pins only when replacement of wire or component is required. Tag disconnected wires to facilitate reassembly. Refer to Subject 20-12-01 for unsoldering procedures.

CAUTION: USE CARE WHEN HANDLING WIRING CONNECTIONS.

B. Disassembly (See figure 3.)

(1) Remove nuts (1), screws (2), connector (3).

(2) Disconnect terminals (5) from switch (7).

(3) Remove wire bundle (4).

(4) Remove guard (6) and switch (7).

3. CLEANING

WARNING: MAKE CERTAIN THAT ALL SOURCES OF FLASH OR FIRE ARE ELIMINATED FROM AREA OF POSSIBLE CONTACT WITH COMBUSTIBLE MATERIALS AND VAPORS DURING THE FOLLOWING PROCEDURE.

CAUTION: DO NOT APPLY ABRASIVE CLEANING MATERIALS OR BRUSHES TO ANY PART OF ASSEMBLY UNLESS OTHERWISE SPECIFIED. USE ONLY CLEANING METHODS AS OUTLINED HEREIN. DO NOT ALLOW SOLVENTS OR CLEANING FLUIDS (EXCEPT NAPHTHA AND ALCOHOL) TO CONTACT ELECTRICAL SURFACES. DO NOT ALLOW SOLVENTS OR CLEANING FLUIDS TO CONTACT IMPREGNABLE MATERIALS.

A. Remove dust or foreign matter from assemply using low pressure air suction.

B. Clean exterior surfaces per "Alkaline Cleaning" in Subject 20-30-03.

C. Clean interior surfaces and electrical contacts with aliphatic naphtha or isopropyl alcohol. Dry thoroughly with low pressure air.

D. For cleaning information related to soldering, refer to "Preparation for Soldering," in Subject 20-12-01.

E. Clean terminal lugs and other bonding areas per Subject 20-11-03.

4. INSPECTION/CHECK

A. Visual Checks

NOTE: Use five-power magnification for checking component, wiring, and soldering.

(1) Check components for security of mounting.

(2) Check components and wire for damage.

(3) Check wire terminals and connections for proper installation.

(4) Check wire insulation for charring, cracking, and brittleness.

(5) Check wire for proper routing.

(6) Check connectors for bent, corroded, or cracked pins.

(7) Check nameplates, metal labels, and Metal-Cals for proper installation and legibility.

(8) Check components for legibility of reference designations and terminal identification.

(9) Check finished surfaces for damage.

(10) Check assembly for warping, bending, or other damage.

(11) Check insulating sleeving for proper installation and evidence of damage.

B. Special Checks

(1) Check vendor components per manufacturer's instructions.

5. REPAIR

A. Repair

(1) Instructions for repair of electrical connectors (plugs, receptacles, sockets, and wire terminations) are contained in "Repair of Electrical Connectors," Subject 20-11-02.

(2) Instructions for repair of soldered connections at terminals or solder cups are contained in "Soldering Electrical Connections," Subject 20-12-01.

(3) Instructions for repair of wire terminations at terminal lugs and preparation of electrical bonding areas are contained in "Repair of Electrical Terminations," Subject 20-11-03.

(4) Straighten assembly components and connector pins if bent.

(5) Silk screen, rubber stamp, or steel stamp as applicable, all damaged reference designations, terminal numbers, or component identification markings. Refer to Subject 20-50-10.

B. Refinish

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

(1) If protective finishes are worn or damaged, refinish as indicated:

(a) All Structural Parts -- Apply F-2.21, F-2.30, or SRF-2.30 all over.

(b) Front Plate or Baseplate -- Apply F-12.75 or SRF-14.9031 to front surface and edges.

(c) Screws (with heads exposed on front of front plate or baseplate) -- Apply F-14.91 to heads.

C. Replacement (See figure 3.)

(1) Replace all parts worn or damaged beyond simple repair.

(2) Replace damaged wire with BMS 13-16, type 1 class 1, size AWG 20.

(3) Replace defective Metal-Cals per Subject 20-50-05.

(4) If connector plate (9) requires replacement, proceed as follows:

(a) Remove rivets (8) and connector plate (9) from baseplate (10).

(b) Position connector plate on baseplate and install rivets.

(5) If stud assembly (12) requires replacement:

(a) Insert punch in end of stud and drive stud assembly from baseplate.

(b) Clean faying surfaces.

(c) Insert new stud assembly in baseplate and flare small end of cup in baseplate.

6. ASSEMBLY

A. General

(1) Complete required REPAIR procedures.

(2) Connect electrical wires per schematic diagram.

B. Reassembly (See figure 3.)

(1) Install switch (7), guard (6).

(2) Install wire bundle (4), connecting terminals (5) to switch (7).

(3) Replace screws (2), nuts (1), connector (3).

7. FITS AND CLEARANCES

A. None

8. TESTING

A. Test Equipment

(1) Multimeter - Simpson 260 or equivalent

B. Functional Test

(1) Set switch S1 to "NORMAL."

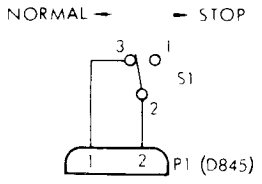
(2) Check for electrical continuity between pins P1-1 and P1-2.

(3) Set switch S1 to "STOP."

(4) Check for open circuit between pins P1-1 and P1-2.

9. TROUBLE SHOOTING

A. None



Schematic Diagram
Figure 2

10. STORAGE INSTRUCTIONS

A. Protect assembly from dust, moisture, and atmospheric conditions. Place assembly in plastic bag and insert in protective carton, padded sufficiently to ensure against damage during storage and handling. Close, tape, and mark carton with assembly identity and date of overhaul.

B. For further information, refer to "Protection, Storage, and Handling of Airplane Components," Subject 20-70-01.

11. SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

A. Tools used for repair of electrical connectors are listed in Subject 20-11-02.

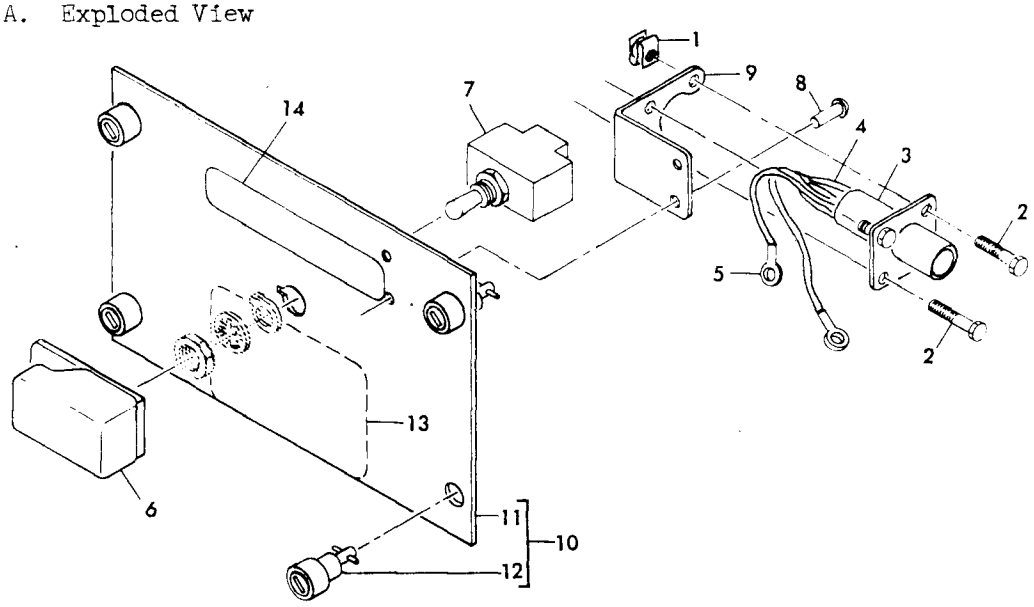
B. Tools used for repair of electrical terminations and for replacement of insulating sleeving are listed in Subject 20-11-03.

C. Tools used for soldering electrical connections are listed in Subject 20-12-01.

NOTE: For additional equipment required for testing, refer to TESTING.

12. ILLUSTRATED PARTS LIST

A. Exploded View



Radar Rotation Module Assembly (P3-6)
Figure 3

B. Group Assembly Parts List

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
3-	69-37356-1		RADAR ROTATION MODULE ASSEMBLY (P3-6)		
1	BACN10NW1		. NUT		3
2	BACS12CB04-5		. SCREW		3
3	BACC45FN10-5P6		. CONNECTOR		1
4	69-37356-3		. WIRE BUNDLE		1
5	BACT12AC1		. TERMINALS		2
6	11170-1		. GUARD, V72914		1
7	MS24523-23		. SWITCH		1
8	MS20426D4		. RIVETS		2
9	69-43873-25		. CONNECTOR PLATE		1
10	69-37356-2		. BASEPLATE ASSEMBLY		1
11	BACP10U375G		. . BASEPLATE		1
12	BACS21DD1		. . STUD		4
13	BAC27DCC477		. METAL-CAL		1
14	BAC27DCC478		. METAL-CAL		1

Reference Designation Index (See Schematic Diagram)		
Reference Designation	Part Number	Item No.
P1	BACC45FN10-5P6	3
S1	MS24523-23	7

VENDOR CODE

Code	Name and Address
V72914	Grimes Manufacturing Company 515 N. Russell Urbana, Ohio 43078