

## RADOME - ADJUSTMENT/TEST

*EFFECTIVITY: ACFT MODEL(S) EMB-145*

### 1. General

- A. This section gives the procedures to adjust the radome.
- B. The procedures in this section are given in the sequence below. The tasks identified with (◆) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
53-11-01-820-801-A	RADOME - ADJUSTMENT	ACFT MODEL(S) EMB-145

TASK 53-11-01-820-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

## 2. RADOME - ADJUSTMENT

### A. General

(1) This task gives the procedure to adjust the radome.

### B. References

REFERENCE	DESIGNATION
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
S.B.145-32-0036	-
SRM 51-20-01	-

### C. Zones and Accesses

Not Applicable

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber gloves	Chemical protection	AR
Commercially available	Safety goggles	Eye protection	AR
Commercially available	Acrylic spatula	To remove/apply sealant	1
Commercially available	Soft, lint-free cloth	To clean	AR

### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MEP13-073	Rhodosolve E-23	AR
AMS-S-8802 Type II-2, Class B2	Sealant, PR1440B2	AR

### G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Radome

I. Preparation

*SUBTASK 841-004-B*

- (1) Make sure that aircraft is safe for maintenance.

**WARNING: DO NOT PERMIT PERSONS TO GET ACCESS TO THE NOSE LANDING GEAR COMPARTMENT BEFORE YOU DO STEPS (2) AND (4).**

- (2) On aircraft PRE-MOD [S.B.145-32-0036](#), make sure that the pressure in hydraulic system 1 is fully released ( [AMM TASK 29-10-00-860-802-A/200](#)).
- (3) On aircraft POST-MOD [S.B.145-32-0036](#), install the safety pin of the NLG door solenoid valve ( [AMM TASK 32-00-02-910-801-A/200](#)).
- (4) Install the safety pin to the nose landing gear ( [AMM TASK 32-00-01-910-801-A/200](#)).
- (5) Open the radome.
- (6) With an acrylic spatula, remove the sealant from along the contour of the supports and from the bolts that attach the supports to the aircraft.

**WARNING: BE CAREFUL WHEN YOU USE SOLVENTS BECAUSE THEY ARE A HEALTH AND FIRE HAZARD. USE SAFETY GOGGLES AND PROTECTIVE CLOTHING WHEN YOU HANDLE THEM. DO NOT BREATHE THEIR GASES AND WORK IN AN AREA WITH A GOOD FLOW OF AIR.**

- (7) With a cloth soaked in Rhodiasolve E-23, clean the surface.

J. Step Between Radome and Fuselage Skin at Frame 1 - Adjustment ([Figure 501](#))

*SUBTASK 820-006-B*

- (1) Close the radome.
- (2) Loosen the bolts, as sufficiently to move the radome.  
**NOTE:** Get access through the NLG bay to loosen the bolts.
- (3) Move the radome until the step between the radome and the fuselage skin at frame 1 is 0 thru  $\pm 1.0$  mm (0 in thru  $\pm 0.040$  in).
- (4) Torque the bolts that attach the supports to the aircraft to 2.82 - 3.4 N.m (25 - 30 lbf.in).
- (5) Apply sealing compound PR 1440 B2 to all contour of the supports and on the bolts. Refer to SRM 51-20-01.

K. Gap Between Radome and Fuselage Skin at Frame 1 - Adjustment ([Figure 501](#))

*SUBTASK 820-007-B*

- (1) Open the radome.

- (2) Remove the cotter pins (2) from the set screws (3) of the latches (1). Discard the cotter pins.
- (3) Adjust the screws (3) as necessary: turn them clockwise or counterclockwise until there is a tight lock of the latches (1) when you close the radome and lock the latch.
- (4) Make sure that the gap between the radome border and the fuselage skin at frame 1 is 0.2 - 2 mm (0.0039 - 0.0787 in) with the radome closed.
- (5) Install the cotter pins (2) to the set screws (3) of the latches (1).

L. Follow-on

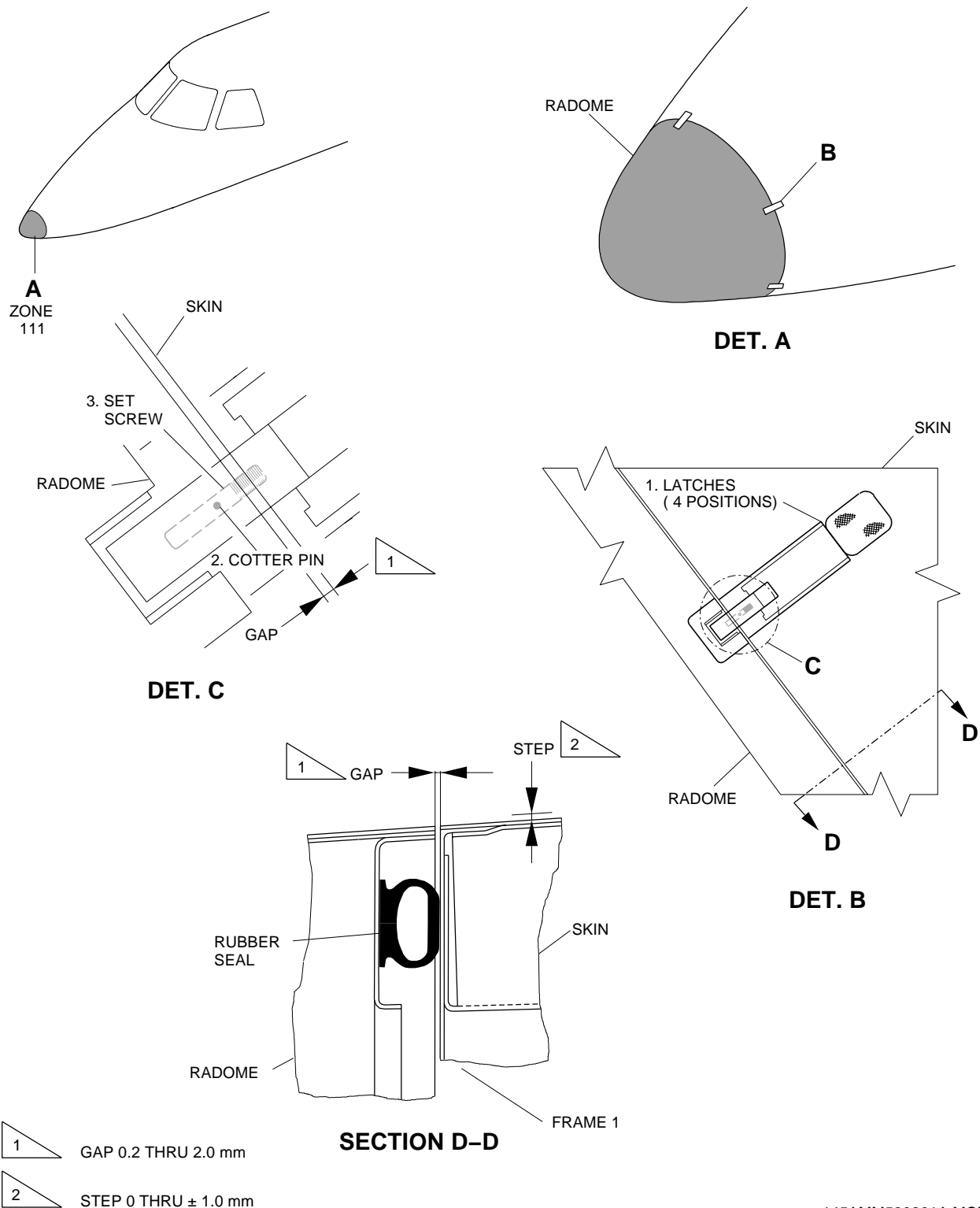
*SUBTASK 842-004-B*

- (1) Close the radome.
- (2) Remove the safety pin from the nose landing gear ( [AMM TASK 32-00-01-910-801-A/200](#)).
- (3) On aircraft POST-MOD [S.B.145-32-0036](#), remove the safety pin of the NLG door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).

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Radome - Adjustment

Figure 501



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