RADOME - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

   A. The procedures in this section are applicable to the inspection of the radome for moisture.

   B. For more information about inspection and check of the radome, refer to the last revision of the Norton Component Maintenance Manual - CMM 53-10-00 P/N 4980-100.

   C. The procedures in this section are given in the sequence below.

   D. 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*
53-11-01-200-801-A ♦	RADOME MOISTURE - INSPECTION/ CHECK	ALL

TASK 53-11-01-200-801-A
EFFECTIVITY: ALL

2. RADOME MOISTURE - INSPECTION/CHECK

A. General

(1) The radome is an aerodynamic protective cover for the radar antenna and permits the radar signal to go directly through it.

(2) Moisture can cause poor electromagnetic performance and structural damage to the radome.

(3) Obey the instructions below to do the inspection on the radome for moisture.

B. References

REFERENCE	*DESIGNATION*
ITEM GSE 306	RADOME MOISTURE METER - 115 VAC
ITEM GSE 307	RADOME MOISTURE METER - 220 VAC

C. Zones and Accesses

ZONE	*PANEL/DOOR*	*LOCATION*
111		Radome

D. Tools and Equipment

ITEM	*DESCRIPTION*	*PURPOSE*	*QTY*
GSE 306	Radome Moisture Meter - 115 V AC	To measure the moisture in the radome	
GSE 307	Radome Moisture Meter - 230 V AC	To measure the moisture in the radome	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	*DESCRIPTION*	*QTY*
ASTM-D-740	Methyl ethyl ketone (MEK)	AR
MIL-D-16791 Type I	Neutral liquid detergent	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	*FUNCTION*	*PLACE*
1	Does the task	Radome

I. Preparation

SUBTASK 841-002-A

WARNING: WEAR RUBBER GLOVES TO PROTECT YOURSELF AGAINST CHEMICAL PRODUCTS.

CAUTION: THE RADOME SURFACE MUST BE FREE OF OIL, GREASE, AND RESIN.

(1) Open the radome.

(2) To remove fingerprints, dirt, and minor contaminants:

(a) Lightly rub the surface of the radome with a soft cloth soaked in neutral detergent.

(b) Clean the surface with water to remove the detergent from the radome (1).

(c) Dry the wet surface with a soft clean cloth or permit it to air-dry.

(3) To remove oil, grease, or other heavy contaminants:

(a) Lightly rub the surface of the radome (1) with a soft cloth soaked in methyl ethyl ketone (MEK).

(b) Rub the area with a clean dry cloth before the solvent evaporation.

J. Inspect (Detailed Inspection) the Presence of Water on the Radome (Figure 601)

SUBTASK 220-002-A

(1) The moisture meter (ITEM GSE 306, ITEM GSE 307) has two basic components: the electrode gun (2) and the metering unit.

(2) Put the electrode gun (2) on the internal surface of the radome (1) (Figure 601, DET. B).

(3) NOTE: The use of antistatic coatings can lead to incorrect readings on the moisture meter when you do the inspection of the external radome surface.

For radome without antistatic coating, put the electrode gun (2) on the external surface of the radome (1) (Figure 601, DET. A).

(4) Instructions to be followed to accomplish items (2) and (3) above:

(a) Read the comparator scale (3) to measure the moisture level (Figure 601, DET. C).

(b) Move the electrode to different locations on the radome to find the area of higher meter indication.

(c) Do not slide the electrode over the surface of the radome.

(5) The moisture meter gives the Good, Fair, Poor, or Unacceptable quantitative readings.

(6) If the comparator scale (3) shows high concentration of moisture ("unacceptable" zone), the radome must have the moisture removed.

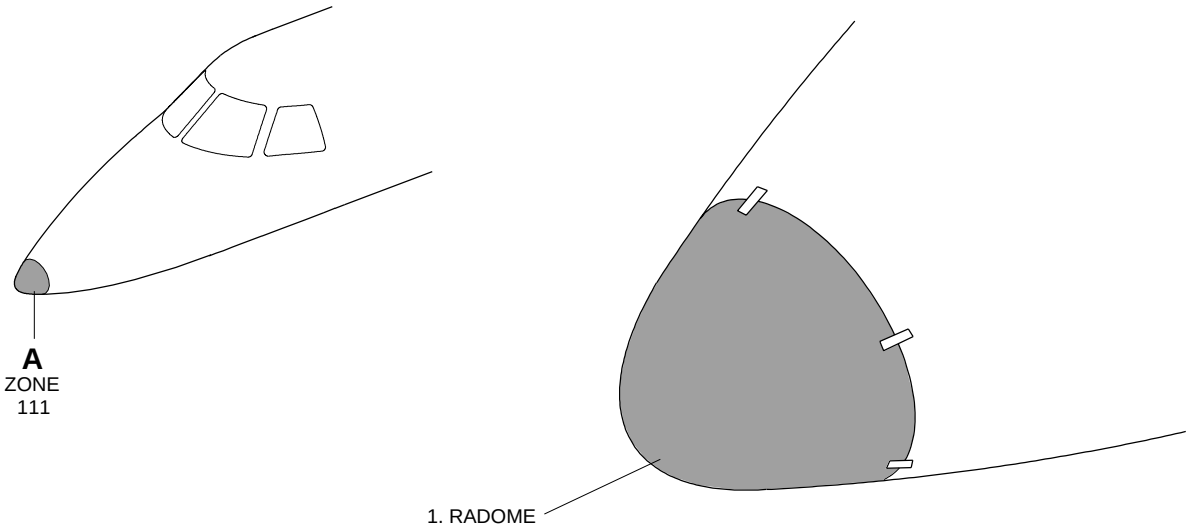
K. Follow-on

SUBTASK 842-002-A

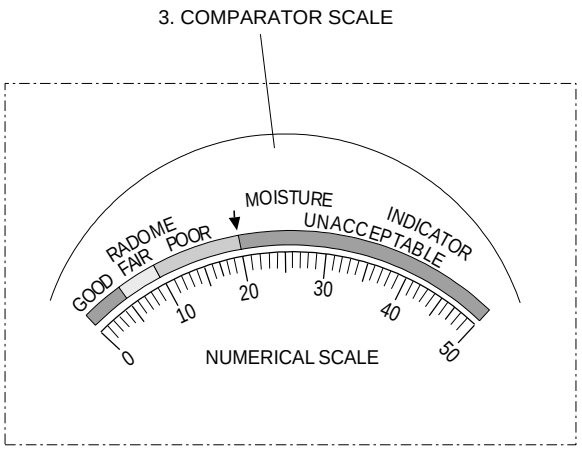
(1) Close the radome.

EFFECTIVITY: ALL

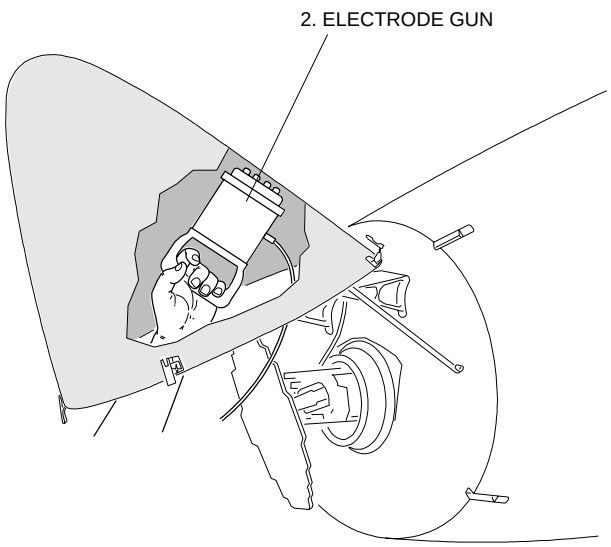
Radome Moisture - Inspection/Check
Figure 601



DET. A



DET. C



DET. B

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