VOR/LOC ANTENNA COUPLER-DIVIDER - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

   A. This section gives the procedures to remove and install the VOR/LOC Antenna Coupler-Divider.

   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*
34-32-12-000-801-A	VOR/LOC ANTENNA COUPLER-DIVIDER - REMOVAL	ALL
34-32-12-400-801-A	VOR/LOC ANTENNA COUPLER-DIVIDER - INSTALLATION	ALL

TASK 34-32-12-000-801-A
EFFECTIVITY: ALL

2. VOR/LOC ANTENNA COUPLER-DIVIDER - REMOVAL

A. General

(1) This procedure gives the instructions to remove the VOR/LOC Antenna Coupler-Divider.

B. Zones and Accesses

ZONE	*PANEL/DOOR*	*LOCATION*
324	324DL	Vertical stabilizer

C. Tools and Equipment

ITEM	*DESCRIPTION*	*PURPOSE*	*QTY*
GSE 036	Platform-hydralic, aircraft	To get access to the work area	

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	*FUNCTION*	*PLACE*
1	Does the task	Vertical stabilizer

H. Preparation

SUBTASK 841-002-A

(1) On the circuit breaker panel, open the VOR/ILS 1 and VOR/ILS 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.

(2) Open access panel 324DL.

I. Removal (Figure 401)

SUBTASK 020-002-A

CAUTION: BE CAREFUL NOT TO CAUSE DAMAGE TO THE CABLES DURING THE REMOVAL OF THE HEAT-SHRINKABLE TUBES.

(1) Cut and remove the heat-shrinkable tubes.

(2) Disconnect the four coaxial connectors (1) from the VOR/LOC Antenna Coupler-Divider (2).

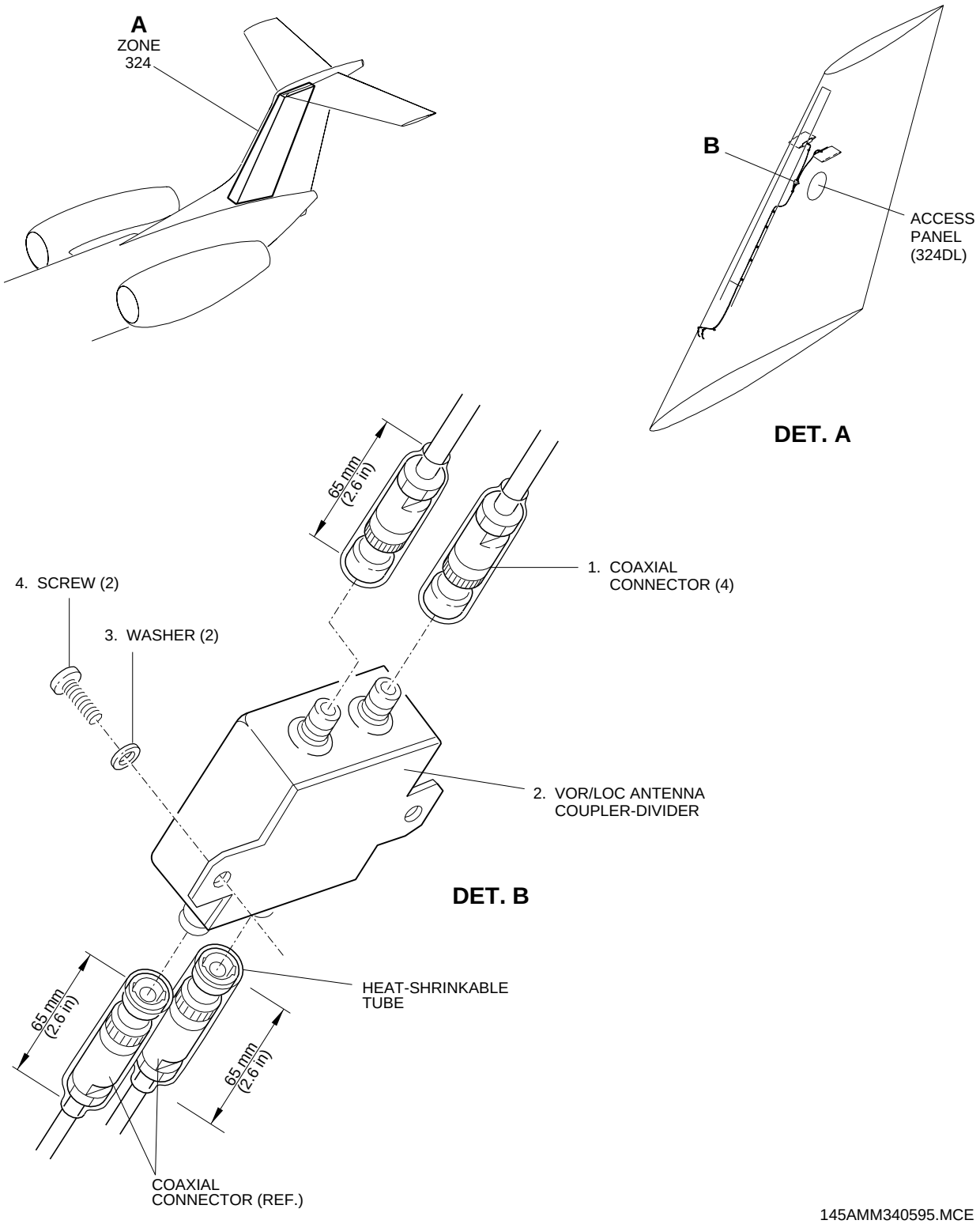
(3) Remove the two screws (4) and washers (3) which attach the VOR/LOC Antenna Coupler-Divider (2) to its support.

(4) Remove the VOR/LOC Antenna Coupler-Divider (2).

(5) Install protection caps on the four coaxial connectors (1).

EFFECTIVITY: ALL

VOR/LOC Antenna Coupler-Divider - Removal/Installation
Figure 401



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TASK 34-32-12-400-801-A
EFFECTIVITY: ALL

3. VOR/LOC ANTENNA COUPLER-DIVIDER - INSTALLATION

A. General

(1) This procedure gives the instructions to install the VOR/LOC Antenna Coupler-Divider.

B. References

REFERENCE	*DESIGNATION*
AMM MPP 20-30-05/200	- MAINTENANCE PRACTICES
AMM TASK 34-32-00-700-801-A/500	VOR/ILS SYSTEM OPERATIONAL TEST
WM 20-10-00	-
WM 20-50-00	-

C. Zones and Accesses

ZONE	*PANEL/DOOR*	*LOCATION*
324	324DL	Vertical stabilizer

D. Tools and Equipment

ITEM	*DESCRIPTION*	*PURPOSE*	*QTY*
GSE 036	Platform-hydralic, aircraft	To get access to the task area	
Commercially available	Heating gun	To shrink the original heat-shrinkable tube	

E. Auxiliary Items

ITEM	*DESCRIPTION*	*PURPOSE*	*QTY*
400-grit	Sandpaper	To remove Alodine residues	AR
Commercially available	Clean dry cloth	To clean surfaces	AR
Commercially available	Soft bristled brush	To apply Alodine 1200S	1

F. Consumable Materials

SPECIFICATION (BRAND)	*DESCRIPTION*	*QTY*
AMS-DTL-23053/4	Heat-shrinkable tube (P/N ATUM-16/4-0)	AR
MIL-S-8660	Dow Corning No. 4 Lubricant Compound	AR
ASTM-D740	Methyl Ethyl Ketone (MEK)	AR
MIL-C-5541	Alodine 1200S	AR
MEP 10-057	Fluid-Resistant Nylon NYCOTE 7-11-DARK BLUE Varnish	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	*FUNCTION*	*PLACE*
1	Does the task	Vertical stabilizer

I. Installation (Figure 401)

SUBTASK 420-002-A

(1) Clean the areas of the aircraft where the VOR/LOC Antenna Coupler-Divider (2) is to be installed, as follows:

(a) With a clean cloth soaked in Methyl Ethyl Ketone (MEK), clean the areas where the VOR/LOC Antenna Coupler-Divider (2) will be installed. Before the MEK evaporates, wipe those areas with a clean, dry cloth.

(b) With a 400-grit sandpaper, remove the old Alodine from those areas, then do step (a) again.

NOTE: Do not touch the clean surfaces.

(c) With a soft-bristle brush, apply Alodine 1200S solution to the aircraft structure where the VOR/LOC Antenna Coupler-Divider (2) will be installed. Let the surfaces stay wet for two to three minutes. The surfaces will turn yellowish.

NOTE: The Alodine 1200S solution has a pot life of 24 hours. Use a new Alodine solution if it was not prepared in the last 24 hours.

(d) With a clean cloth soaked in water, wipe the alodized area at least three times. Be careful not to damage the Alodine film.

(e) Allow the surfaces to air-dry.

(f) With a clean cloth soaked in Methyl Ethyl Ketone (MEK), clean the attachment lug of the VOR/LOC Antenna Coupler-Divider (2). Before the MEK evaporates, wipe this area with a clean, dry cloth.

NOTE: Do not touch the clean surfaces.

(2) Examine and clean or replace the electrical coaxial connectors (1) as required (WM 20-50-00).

(3) Put the VOR/LOC Antenna Coupler-Divider (2) in its installation position.

(4) Install the two washers (3) and screws (4).

(5) Apply a thin coat of Fluid-Resistant Nylon NYCOTE 7-11-DARK BLUE Varnish around the area used to attach the VOR/LOC Antenna Coupler-Divider (2).

NOTE: For more information about the varnish, refer to AMM MPP 20-30-05/200.

(6) Remove the protection caps from the four coaxial connectors (1).

(7) Fill the internal part of the coaxial connectors (1) and their mates with Dow Corning No. 4 Lubricant Compound (WM 20-50-00).

(8) Cover the coaxial connector (1) with the heat-shrinkable tubes.

(9) Connect the four coaxial connectors (1) on the VOR/LOC Antenna Coupler-Divider (2).

WARNING: OBEY THE SAFETY PRECAUTION GIVEN IN WM 20-10-00 TO USE THE HEATING GUN. EXPLOSIONS CAN OCCUR IF YOU USE INCORRECT HEATING.

(10) Heat up the heat-shrinkable tube. Start the heating from the connector to the related harness. Do this with the heating gun.

J. Follow-on

SUBTASK 842-002-A

(1) On the circuit breaker panel, close the VOR/ILS 1 and VOR/ILS 2 circuit breakers and remove the DO-NOT-CLOSE tag from them.

(2) Close access panel 324DL.

(3) Do the VOR/ILS System Operational Test (AMM TASK 34-32-00-700-801-A/500).