



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

DUAL VOR/LOC ANTENNA - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the Dual VOR/LOC antenna.
- 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
34-32-08-000-801-A	DUAL VOR/LOC ANTENNA - REMOVAL	ALL
34-32-08-400-801-A	DUAL VOR/LOC ANTENNA - INSTALLATION	ALL



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TASK 34-32-08-000-801-A

EFFECTIVITY: ALL

2. DUAL VOR/LOC ANTENNA - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the Dual VOR/LOC antenna.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
324		Vertical stabilizer

C. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 036	Platform, hydraulic, aircraft	To get access to the task 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 3 circuit breaker and attach a DO-NOT-CLOSE tag to it.

I. Removal (Figure 401)

SUBTASK 020-002-A

- (1) Put the hydraulic platform at the necessary height.
- (2) Remove the eight screws (3) that attach the Dual VOR/LOC antenna (4) to the structure.
- (3) Carefully pull the Dual VOR/LOC antenna (4).
- (4) Disconnect the two electrical connectors (1).
- (5) Remove the gasket (2).



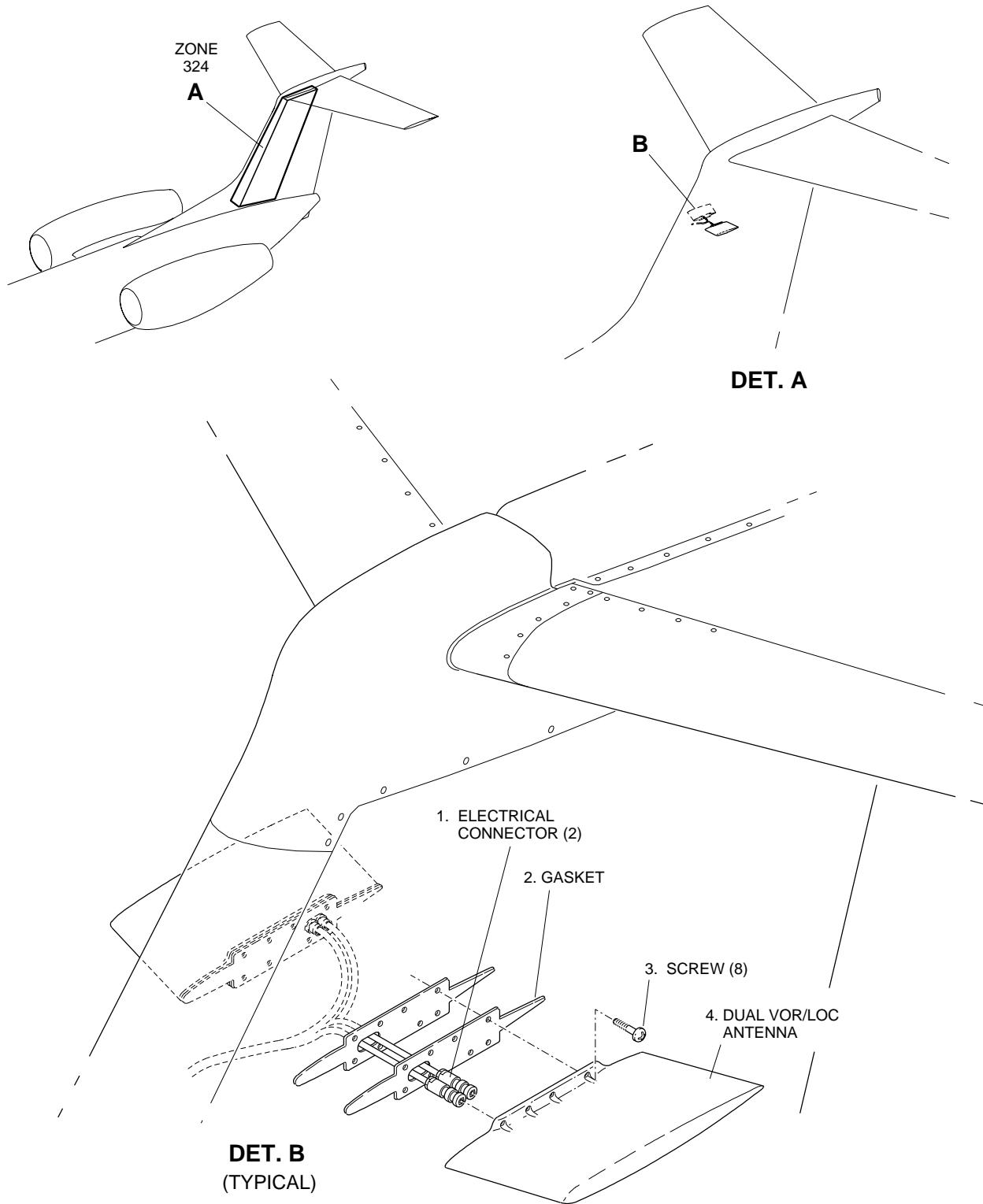
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- (6) Remove the Dual VOR/LOC antenna (4).

EFFECTIVITY: ALL

Dual VOR/LOC Antenna - Removal/Installation

Figure 401



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TASK 34-32-08-400-801-A

EFFECTIVITY: ALL

3. DUAL VOR/LOC ANTENNA - INSTALLATION

A. General

(1) This procedure gives the instructions to install the Dual VOR/LOC antenna.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-11-01-910-801-A/200	ANTENNA SEALING
AMM TASK 34-32-00-700-801-A/500	VOR/ILS SYSTEM OPERATIONAL TEST
IPC 34-32-05	VOR/LOC ANTENNA
WM 20-50-00	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
324		Vertical stabilizer

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 036	Platform, hydraulic, aircraft	To get access to the task area	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Plastic Spatula	To remove the sealant	
Commercially available	Scotch Brite Sponge	To clean the surface	
Commercially available	Lint-free cloth	To clean the surface	

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-S-81733 TYPE II-2	Sealant	AR
ASTM-D740	Methyl Ethyl Ketone	AR
MIL-C-5541	Alodine 1200S	AR
MIL-S-8660	Dow Corning No. 4 Lubricant Compund	AR



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G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Gel Conductive Gasket	IPC 34-32-05	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Vertical stabilizer

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the hydraulic platform at the necessary height.
- (2) Remove all the old sealant from the vertical-stabilizer skin surface where the Dual VOR/LOC antenna is installed. For this, use a plastic spatula.
- (3) Remove the old Alodine residues from the exposed surface of the Dual VOR/LOC antenna shim with a Scotch Brite sponge.
- (4) Examine and clean or replace the electrical connectors (1) as required (WM 20-50-00).
- (5) Clean the shim surface with a clean cloth soaked in methyl ethyl ketone.
- (6) Wipe it with a clean dry cloth before the solvent becomes gas.
NOTE: Alodine 1200S must be prepared at the time of the application.
- (7) Apply a thin coat of Alodine 1200S to the exposed shim surface.
NOTE: Do not go to the subsequent step until the shim surface becomes amber.
- (8) Fill the internal part of the electrical connectors (1) and their mates with Dow Corning No. 4 Lubricant Compound (WM 20-50-00).
- (9) Connect the two electrical connectors (1) to the antenna (4).
- (10) Put the gasket (2) in its installation position.
- (11) Put the antenna (4) in its installation position on the skin and tighten the eight screws (3).
- (12) Apply sealant MIL-S-81733 TYPE II-2 along the contour of the antenna base ([AMM TASK 20-11-01-910-801-A/200](#)).

J. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the VOR/ILS 3 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Do the VOR/ILS System Operational Test ([AMM TASK 34-32-00-700-801-A/500](#)).