



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

DORSAL FIN - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the dorsal fin.
- 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
55-34-00-000-801-A	DORSAL FIN - REMOVAL	ALL
55-34-00-400-801-A	DORSAL FIN - INSTALLATION	ALL



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TASK 55-34-00-000-801-A

EFFECTIVITY: ALL

2. DORSAL FIN - REMOVAL

A. General

(1) This procedure gives the instructions to remove the dorsal fin.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
SRM 51-20-01-PR	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
322		Dorsal fin

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the work area	
Commercially available	Torque wrench	To remove the screws	
Commercially available	Acrylic spatula	To remove old sealant	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Protective Gloves	For protection of technician's hands	1
Commercially available	Safety Goggles	For protection of technician's eyes	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
ASTM-D-740	Methyl Ethyl Ketone - MEK	AR

G. Expandable Parts

Not Applicable



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Dorsal fin

I. Preparation

SUBTASK 841-002-A

- (1) For aircraft with HF system installed, do as follows:
 - (a) On the circuit breaker panel, on the cockpit ceiling, make sure that the HF circuit breaker is open (Location Tip: DC BUS 2/COMM/HF).
 - (b) Remove access panel 322BR (AMM MPP 06-42-00/100).

J. Removal (Figure 401) (Figure 402)

SUBTASK 020-002-A

- (1) (Aircraft with HF System) Do the HF antenna disconnection as follows (Figure 402):
 - (a) Remove sealant from the nut (5).
 - (b) Remove the nut (5) and the washer (2) that attach the flat coupler wire (1) to the HF antenna adapter (3).
 - (c) Remove the flat coupler wire (1) from the HF antenna coupler (3).
- (2) Remove the screws (1) that attach the dorsal fin (2) to the fuselage and vertical stabilizer.
- (3) Carefully remove the dorsal fin (2).
- (4) Remove the old aerodynamic sealant and prepare the surface, according to (SRM 51-20-01-PR).

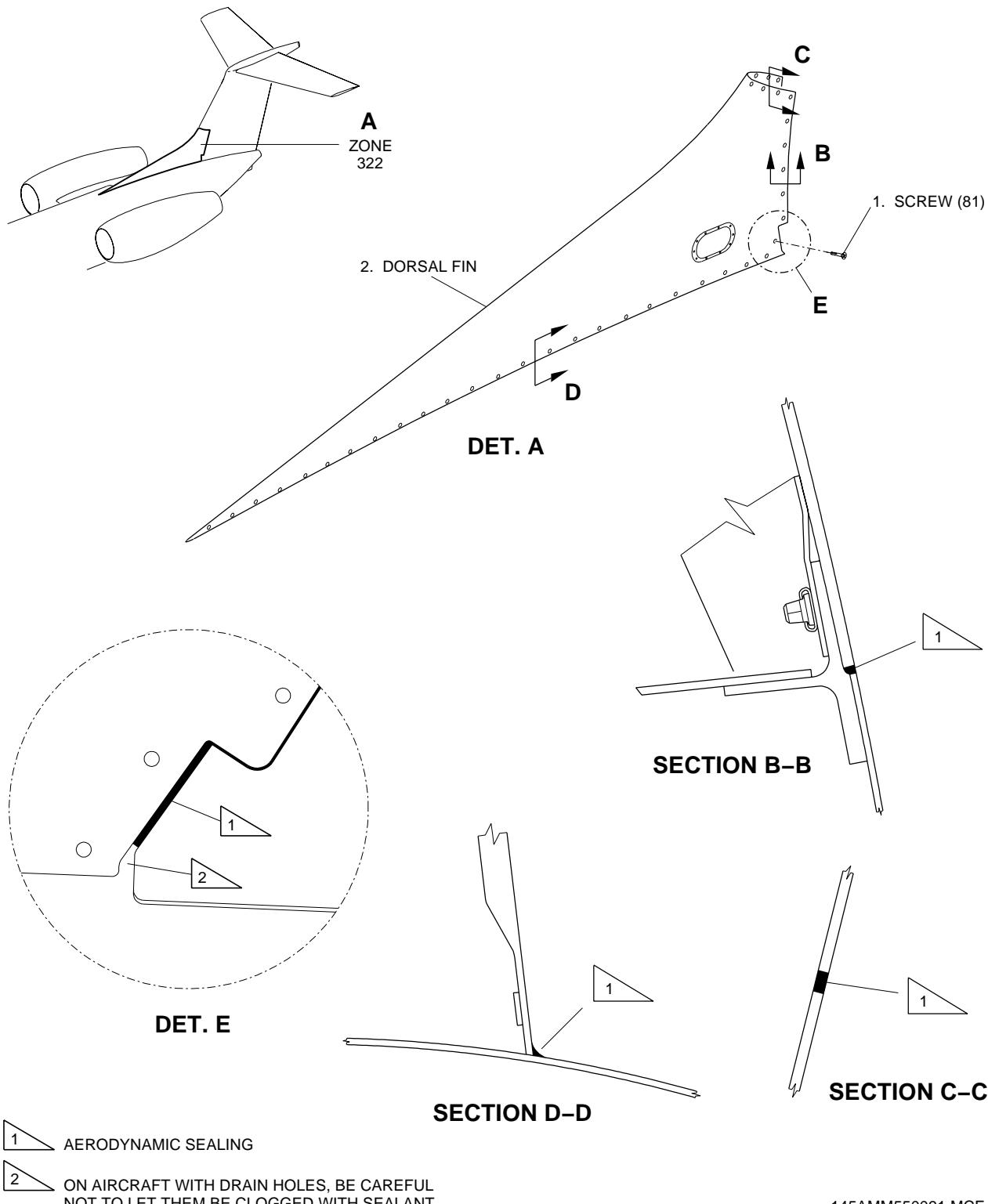
WARNING: BE CAREFUL WHEN YOU USE SOLVENTS BECAUSE THEY ARE A HEALTH AND FIRE HAZARD. USE SAFETY GOGGLES AND PROTECTIVE CLOTHING WHEN YOU HANDLE THEM. DO NOT BREATHE THEIR GASES AND WORK IN A WELL VENTILATED AREA.

- (5) With a cloth soaked in MEK, clean the surface.

EFFECTIVITY: ALL

Dorsal Fin - Removal/Installation

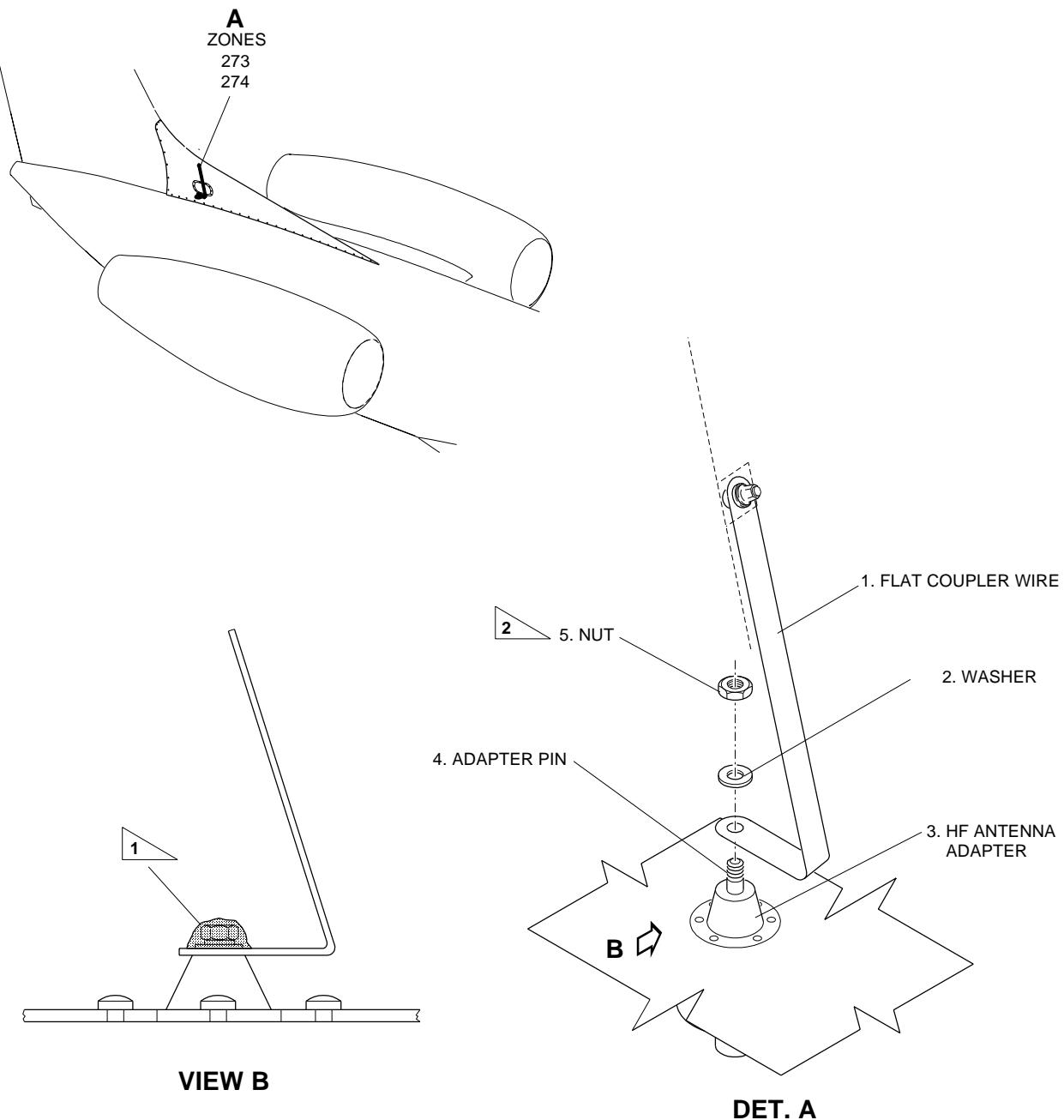
Figure 401



EFFECTIVITY: AIRCRAFT WITH HF SYSTEM

HF Antenna - Connection/Disconnection

Figure 402



1

SEALANT (PR1440B2)

2

TORQUE: 2.8–3.4 N.m (25–30 lbf.in)
AIRCRAFT EQUIPPED WITH STEEL ADAPTER PIN

EM145AMM550034B.DGN



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TASK 55-34-00-400-801-A

EFFECTIVITY: ALL

3. DORSAL FIN - INSTALLATION

A. General

(1) This procedure gives the instructions to install the dorsal fin.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM MPP 20-10-01/200	- MAINTENANCE PRACTICES
AMM TASK 20-13-21-700-801-A/200	ELECTRICAL BONDING TEST - STANDARD PROCEDURES
AMM TASK 23-11-00-700-802-A/500	HF SYSTEM - FUNCTIONAL TEST
SRM 51-20-01-PR	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
322		Dorsal fin

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the work area	
Commercially available	Torque wrench	To tighten the screws	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Protective Gloves	For protection of technician's hands	1
Commercially available	Safety Goggles	For protection of technician's eyes	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-PRF-81733 TYPE II-2	Sealant, P/S 870 - B 2	AR
MIL-PRF-81733 TYPE II-1/2	Sealant, P/S 870 - B 1/2	AR
MIL-S-8802 TYPE II	Sealant PR1440B-2	AR
MEP 09-075	Corrosion-Inhibiting Compound (COR-BAN 27L)	AR
ASTM-D-740	Methyl Ethyl Ketone - MEK	AR



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(Continued)

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Commercially available	Scotch Brite Sponge	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Dorsal fin

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-002-A

- (1) Install the dorsal fin (2).

WARNING: COR-BAN 27L IS TOXIC TO SKIN, EYES, AND RESPIRATORY INHALATION. USE PVC GLOVES AND EYE PROTECTION GOGGLES. USE ONLY IN WELL VENTILATED AREAS. OBEY THE MANUFACTURER'S HEALTH AND SAFETY INSTRUCTIONS.

- (2) Soak the screws (1) with COR-BAN 27L IS and install them. The screws attaches the dorsal fin (2) to the fuselage and vertical stabilizer.

NOTE: For torque, refer to ([AMM MPP 20-10-01/200](#)).

- (3) (Aircraft with HF System) Do the HF antenna connection as follows (Figure 402):

(a) Carefully put the flat coupler wire (1) in position.

(b) Install the washer (2) and the nut (5) that attach the flat coupler wire (1) to the HF antenna adapter (3).

NOTE: Apply torque 2.8 - 3.4 N.m (25-30 lbf.in).

(c) Apply sealant over the nut (5) as shown in (Figure 402).

- (4) Apply aerodynamic sealant P/S 870 - B 2.

NOTE: The sealant curing time changes with the environmental conditions. Refer to (SRM 51-20-01-PR).

J. Follow-on

SUBTASK 842-002-A

- (1) (Aircraft with HF System) Do as follows:

(a) On the circuit breaker panel, on the cockpit ceiling, make sure that the HF circuit breaker is closed (Location Tip: DC BUS 2/COMM/HF).

(b) Do the HF System Functional Test, according to [AMM TASK 23-11-00-700-802-A/500](#).



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- (c) Install access panel 322BR (AMM MPP 06-42-00/100).
- (2) Do the electrical-bonding test procedure as given in [AMM TASK 20-13-21-700-801-A/200](#).