



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

HORIZONTAL-STABILIZER ATTACHMENT FAIRING - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the horizontal-stabilizer attachment fairing.
- 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
55-14-00-000-801-A	HORIZONTAL-STABILIZER ATTACHMENT ALL FAIRING - REMOVAL	
55-14-00-400-801-A	HORIZONTAL-STABILIZER ATTACHMENT ALL FAIRING - INSTALLATION	



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TASK 55-14-00-000-801-A

EFFECTIVITY: ALL

2. HORIZONTAL-STABILIZER ATTACHMENT FAIRING - REMOVAL

A. General

(1) This procedure gives the instructions to remove the horizontal-stabilizer attachment fairing.

B. References

REFERENCE	DESIGNATION
SRM 51-20-01-PR	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
335		Horizontal stabilizer
336		Horizontal stabilizer

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	On stabilizer horizontal

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the PITCH TRIM 1 and 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (2) In the left electrical power control/distribution box, open the PITCH TRIM 1 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (3) In the right electrical power control/distribution box, open the PITCH TRIM 2 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (4) Put a DO-NOT-OPERATE-THE-HORIZONTAL-STABILIZER sign on the pitch trim panel, in the cockpit.

J. Lower Fairing - Removal ([Figure 401](#))

SUBTASK 020-002-A

- (1) Remove the screw (2).
- (2) Remove the lower fairing (1).
- (3) Remove the old aerodynamic sealant and prepare the surface. Refer 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.

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

K. Lower Middle Fairing - Removal ([Figure 401](#))

SUBTASK 020-003-A

- (1) Remove the screw (2).
- (2) Remove the fairing tip (1).
- (3) Remove the old aerodynamic sealant and prepare the surface. Refer 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.

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



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L. Upper Fairing - Removal ([Figure 401](#))

SUBTASK 020-004-A

- (1) Remove the screws (2).
- (2) Remove the upper fairing (1).
- (3) Remove the old aerodynamic sealant and prepare the surface. Refer to SRM 51-20-01-PR.

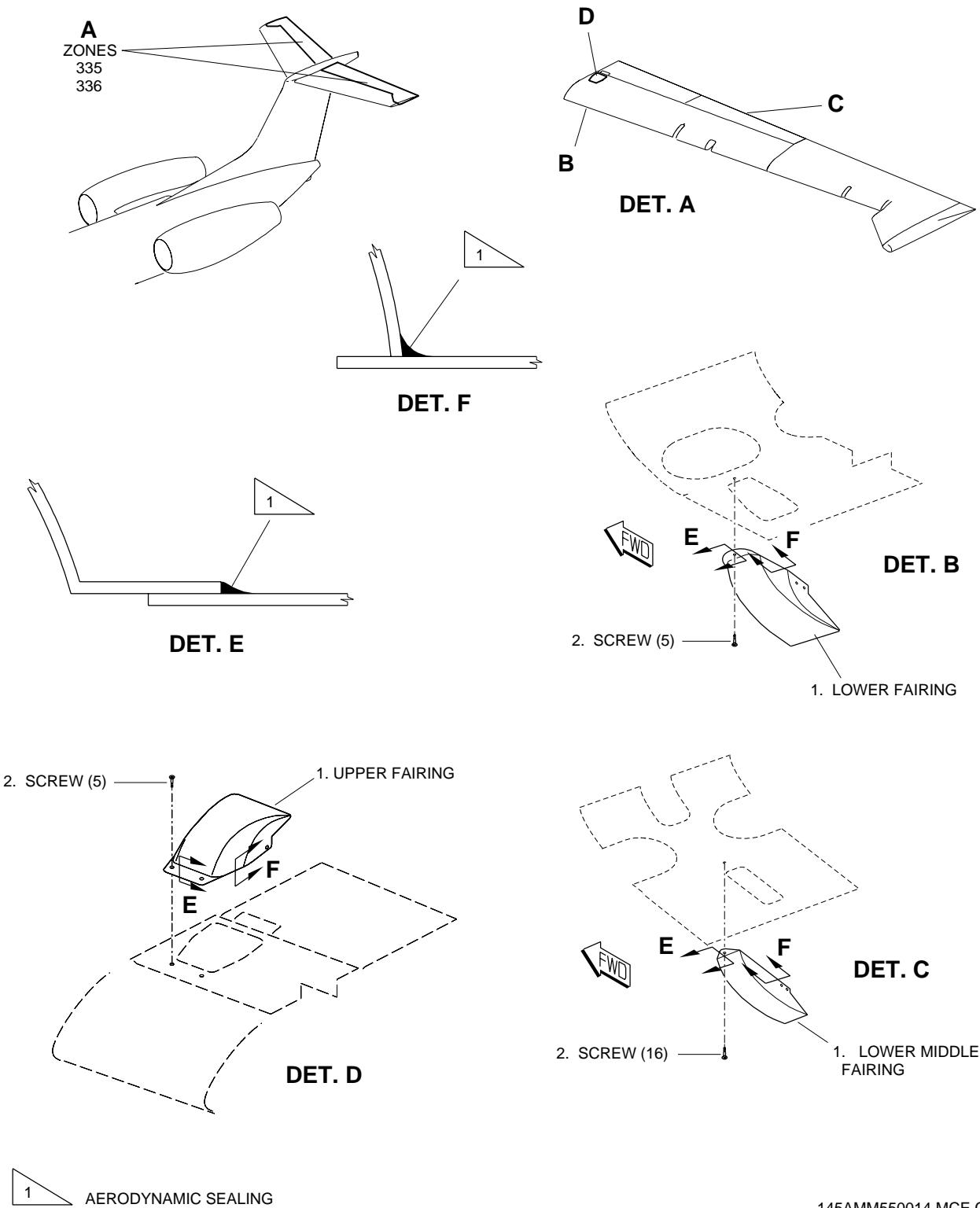
WARNING: BE CAREFUL WHEN YOU USE SOLVENTS BECAUSE THEY ARE A HEALTH AND FIRE HAZARD. USE SAFETY GOGGLES AND PROTECTIVE CLOTHING WHEN YOU HANDLE THEM. DO NOT BREATHE THEIR GASES AND WORK IN A WELL VENTILATED AREA.

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

EFFECTIVITY: ALL

Horizontal-Stabilizer Attachment Fairing - Removal/Installation

Figure 401



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TASK 55-14-00-400-801-A

EFFECTIVITY: ALL

3. HORIZONTAL-STABILIZER ATTACHMENT FAIRING - INSTALLATION

A. General

(1) This procedure gives the instructions to install the horizontal-stabilizer attachment fairing.

B. References

REFERENCE	DESIGNATION
AMM MPP 20-10-01/200	- MAINTENANCE PRACTICES
AMM TASK 20-13-21-700-801-A/200	ELECTRICAL BONDING TEST - STANDARD PROCEDURES
SRM 51-20-01-PR	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
335		Horizontal stabilizer
336		Horizontal stabilizer

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
MEP 09-083	Sealant, PR 2050 B-1/2	AR
Commercially available	Adhesive Tape	AR

G. Expandable Parts

Not Applicable



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Horizontal stabilizer

I. Lower Fairing - Installation (Figure 401)

SUBTASK 420-002-A

- (1) Install the lower fairing (1). Refer to (Figure 401); DET. B.

- (2) Install the screws (2) that attach the lower fairing (1) to the horizontal stabilizer.

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

- (3) Apply aerodynamic sealant PR 2050 B-1/2. Refer to (Figure 401).

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

J. Lower Middle Fairing - Installation (Figure 401)

SUBTASK 420-003-A

- (1) Install the lower middle fairing (1). Refer to (Figure 401); DET. C.

- (2) Install the screws (2) that attach the lower middle fairing (1) to the horizontal stabilizer.

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

- (3) Apply aerodynamic sealant PR 2050 B-1/2. Refer to (Figure 401).

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

K. Upper Fairing - Installation (Figure 401)

SUBTASK 420-004-A

- (1) Install the upper fairing (1). Refer to (Figure 401); DET. D.

- (2) Install the screws (2) that attach the upper fairing (1) to the horizontal stabilizer.

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

- (3) Apply aerodynamic sealant PR 2050 B-1/2. Refer to (Figure 401).

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

L. Follow-on

SUBTASK 842-002-A

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

- (2) In the left electrical power control/distribution box, close the PITCH TRIM 1 circuit breaker and remove the DO-NOT-CLOSE tag from it.



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- (3) In the right power control/distribution box, close the PITCH TRIM 2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (4) Remove the DO-NOT-OPERATE-THE-HORIZONTAL-STABILIZER sign from the pitch trim panel, in the cockpit.
- (5) Do the electrical-bonding test procedure as given in [AMM TASK 20-13-21-700-801-A/200](#).