



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

LATERAL WING-TO-FUSELAGE FAIRING - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the Lateral Wing-to-Fuselage 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
53-04-20-000-801-A	LATERAL WING-TO-FUSELAGE FAIRING ALL - REMOVAL	
53-04-20-400-801-A	LATERAL WING-TO-FUSELAGE FAIRING ALL - INSTALLATION	



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TASK 53-04-20-000-801-A

EFFECTIVITY: ALL

2. LATERAL WING-TO-FUSELAGE FAIRING - REMOVAL

A. General

(1) This procedure gives the instructions to remove the lateral wing-to-fuselage fairing.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
194	194AR (RH side)	Lateral wing-to-fuselage attachment area
195	195AL (LH side)	Lateral wing-to-fuselage attachment area

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Acrylic spatula	To remove 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

H. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Wing-to-fuselage attachment area



I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the emergency light switch, on the overhead panel, is set to the OFF position.

J. Removal ([Figure 401](#))

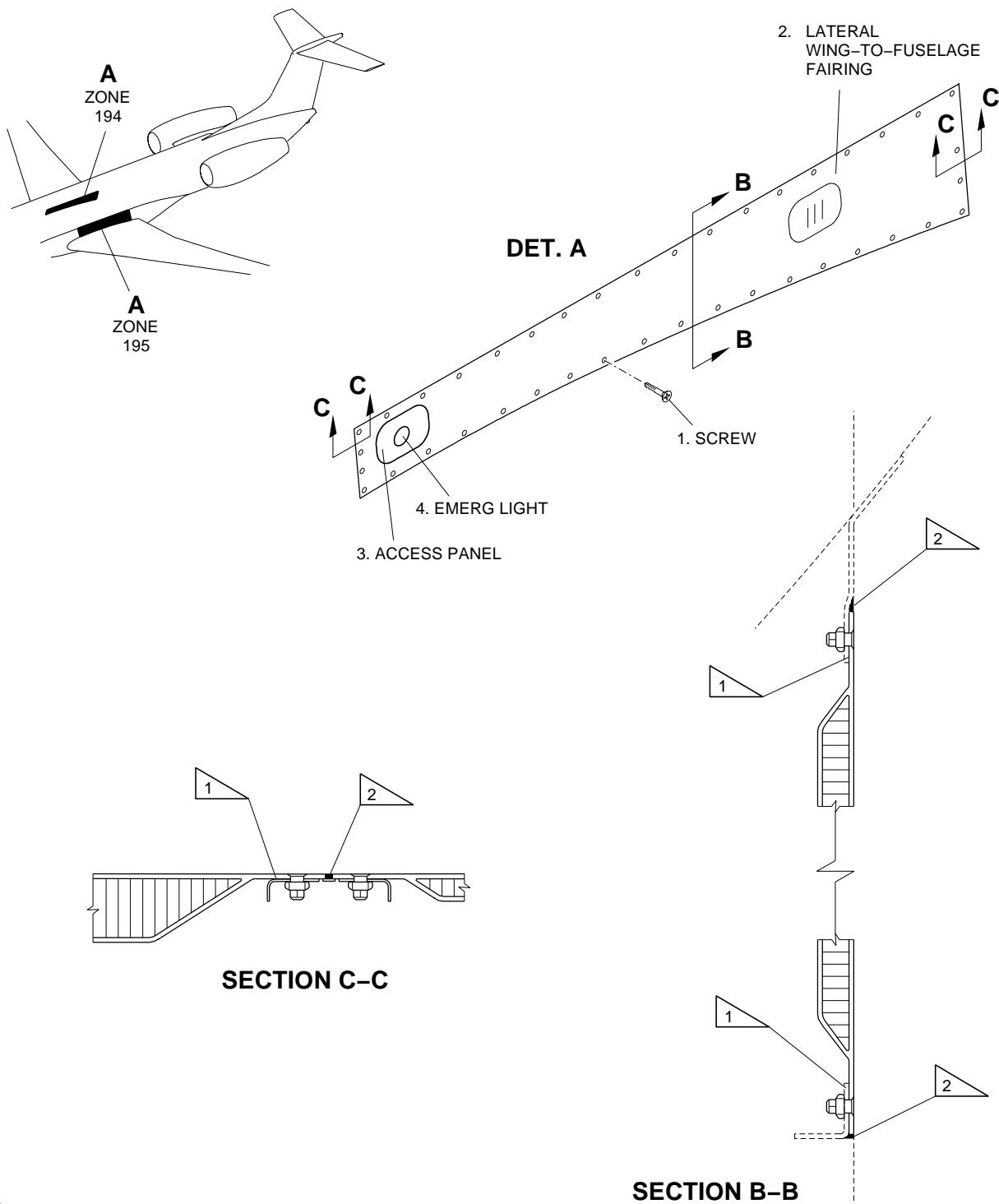
SUBTASK 020-002-A

- (1) With an acrylic spatula, remove the old aerodynamic sealant in the lateral attachment area.
- (2) Remove the screws (1) that attach the access panel (3) to the lateral wing-to-fuselage fairing (2). Refer to [Figure 401](#).
- (3) Remove access panels (3) (AMM MPP 06-41-01/100):
 - 194AR (RH side).
 - 195AL (LH side).
- (4) Disconnect the electrical connector from the emergency light (4) (LH and RH sides).
- (5) Install the protection cap to the disconnected electrical connector.
- (6) Remove the screws (1) that attach the lateral wing-to-fuselage fairing (2). Refer to [Figure 401](#); SECTION B-B and SECTION C-C.
- (7) Remove the lateral wing-to-fuselage fairings (2) (LH and RH sides).

EFFECTIVITY: ALL

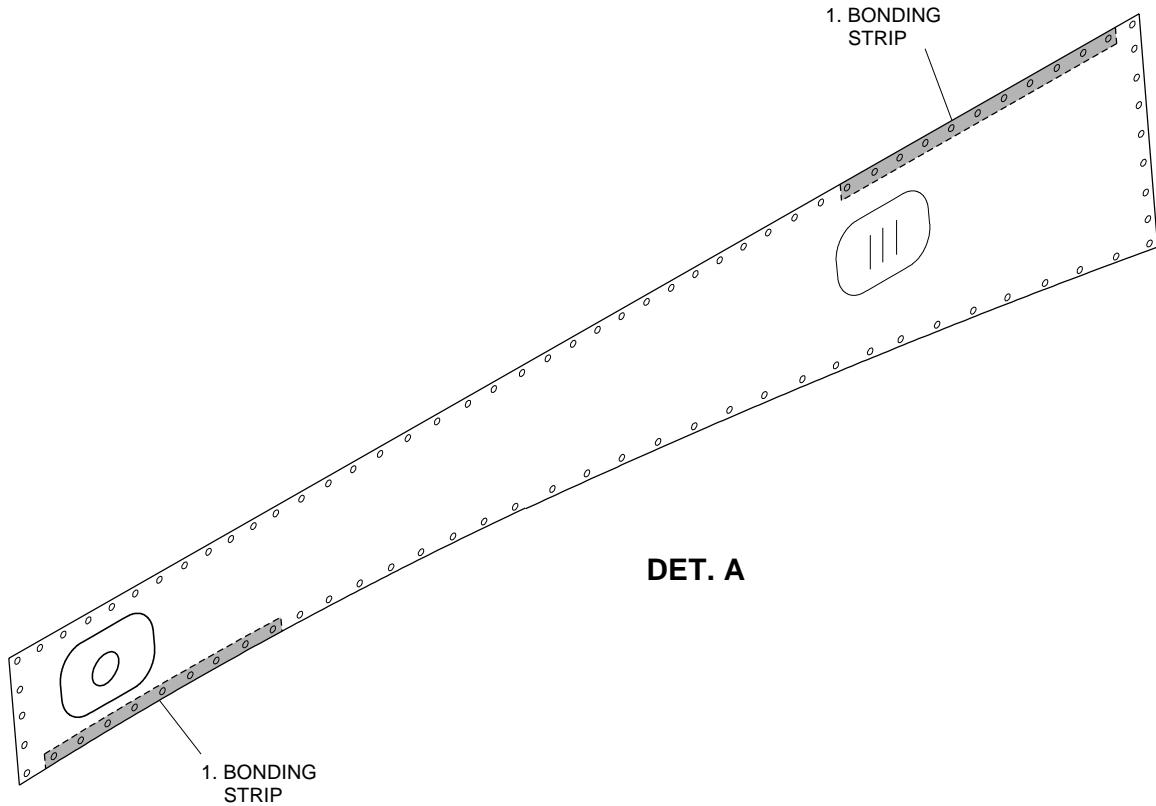
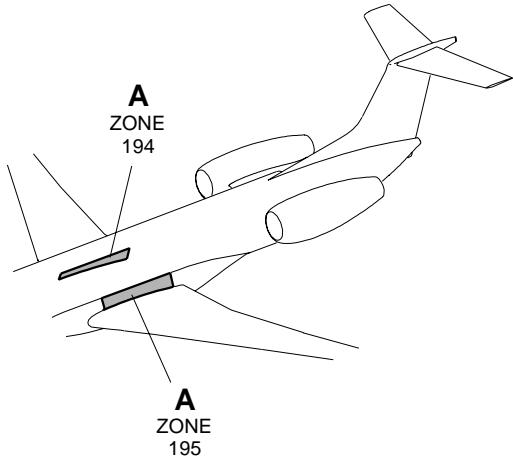
Lateral Wing-to-Fuselage Fairing - Removal/Installation

Figure 401



EM145AMM530016F.DGN

EFFECTIVITY: ALL
Bonding Strap
Figure 402



EM145AMM530342B.DGN



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TASK 53-04-20-400-801-A

EFFECTIVITY: ALL

3. LATERAL WING-TO-FUSELAGE FAIRING - INSTALLATION

A. General

(1) This procedure gives the instructions to install the lateral wing-to-fuselage fairing.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 20-10-01/200	- MAINTENANCE PRACTICES
AMM TASK 20-13-21-700-801-A/200	ELECTRICAL BONDING TEST - STANDARD PROCEDURES
AMM TASK 33-50-00-700-801-A/500	EMERGENCY LIGHTS - OPERATIONAL CHECK
SRM 51-20-01-PR	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
194	194AR (RH side)	Lateral wing-to-fuselage attachment area
195	195AL (LH side)	Lateral wing-to-fuselage attachment area

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
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-G-46886	Grease, Molykote DC-33, Light	AR
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
Commercially available	Adhesive Tape	AR



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(Continued)

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Commercially available	Aluminum Tape (AL Tape 425)	AR
Commercially available	Polyethylene Film	AR
ASTM-D-740	Methyl Ethyl Ketone - MEK	AR
Commercially available	Scotch Brite Sponge	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Lateral wing-to-fuselage attachment area

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-002-A

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.

- (1) With a cloth soaked in MEK, clean the surface.
- (2) Apply COR-BAN 27L to the faying surface of the lateral wing-to-fuselage fairing (3).
- (3) Install the lateral wing-to-fuselage fairings (2) (LH and RH sides).
- (4) Install the screws (1) that attach the lateral wing-to-fuselage fairing (2). Refer to (Figure 401); SECTION B-B and SECTION C-C.

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

- (5) Remove the protection cap from the disconnected electrical connector.
- (6) Connect the electrical connector to the emergency light (4) (LH and RH sides).
- (7) Install access panels (3) (AMM MPP 06-41-01/100):
 - 194AR (RH side).
 - 195AL (LH side).
- (8) There are different methods to do the aerodynamic sealing in the lateral wing-to-fuselage attachment area. Use the applicable procedure as necessary:
 - (a) Full sealant-curing time:
 - 1 Apply sealant P/S 870 - B 1/2 or P/S 870 - B 2.

NOTE: Sealant curing time will change according to the environmental conditions. Refer to ([SRM 51-20-01-PR](#)).

- (b) Acceleration of sealant curing time with heating:
- 1 Apply sealant P/S 870 - B 1/2 or P/S 870 - B 2.
 - 2 Wait for one hour after the sealant is applied.
- CAUTION: THE TEMPERATURE MUST NOT BE HIGHER THAN 55°C (131°F).
- 3 Heat the area which received the sealant.
- NOTE: Sealant curing time will change according to the environmental conditions. Refer to (SRM 51-20-01-PR).
- (c) Application of aluminum tape after tack-free time.
- NOTE: This procedure must only be done when a faster aircraft clearance is necessary.
- 1 Apply sealant P/S 870 - B 1/2 or P/S 870 - B 2.
 - 2 You can accelerate the sealant curing time as written in paragraph (b).
 - 3 After sealant is tack-free, apply aluminum tape.
- NOTE: You can operate the aircraft immediately after the aluminum tape application.
- 4 Remove the aluminum tape after 150 hours.
- (d) Application of polyethylene film and aluminum tape.
- 1 Apply sealant P/S 870 - B 1/2 or P/S 870 - B 2.
 - 2 Apply a polyethylene film over the sealant.
 - 3 Apply the aluminum tape.
- NOTE: You can operate the aircraft immediately after the aluminum tape application.
- 4 Remove the aluminum tape after 10 days.

J. Follow-on

SUBTASK 842-002-A

- (1) Do the operational check of the emergency light, according to [AMM TASK 33-50-00-700-801-A/500](#).
- (2) Do the electrical-bonding test procedure as given in [AMM TASK 20-13-21-700-801-A/200](#). Refer to (Figure 402).