



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

**LEADING EDGE I FAIRINGS - REMOVAL/INSTALLATION**

*EFFECTIVITY: ALL*

1. General

- A. This section gives the procedures to remove and install the Leading Edge I Fairings.
- B. These procedures are applicable to the LH and RH Leading Edge I Fairings.
- C. 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
57-40-01-000-801-A	LEADING EDGE L FAIRINGS - REMOVAL	ALL
57-40-01-400-801-A	LEADING EDGE L FAIRINGS - INSTALLA- TION	ALL



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TASK 57-40-01-000-801-A

EFFECTIVITY: ALL

2. LEADING EDGE L FAIRINGS - REMOVAL

A. General

- (1) This task gives the procedures to remove the leading edge l fairings.

B. References

REFERENCE	DESIGNATION
AMM TASK 33-41-02-000-801-A/400	LANDING LIGHT LAMP - REMOVAL

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Acrylic spatula	To remove the sealant and clean the surfaces	1
Commercially available	Lint-free cloth	For cleaning	AR

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-D-16791G Type 1	Neutral Liquid Detergent	AR
Commercially Available	Adhesive Tape	AR

G. Expandable Parts

Not Applicable

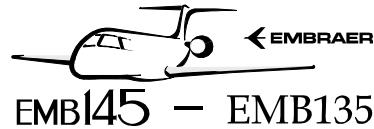
H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Leading edge l

I. Preparation

*SUBTASK 841-002-A*

- (1) Make sure that the aircraft is safe for maintenance.
- (2) With an acrylic spatula, remove the old aerodynamic sealant from the leading edge l fairing and landing light lens attachment area.
- (3) With a cloth soaked in neutral liquid detergent, clean the surface.



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- (4) Remove the lens of the landing light ([AMM TASK 33-41-02-000-801-A/400](#)).

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

SUBTASK 020-002-A

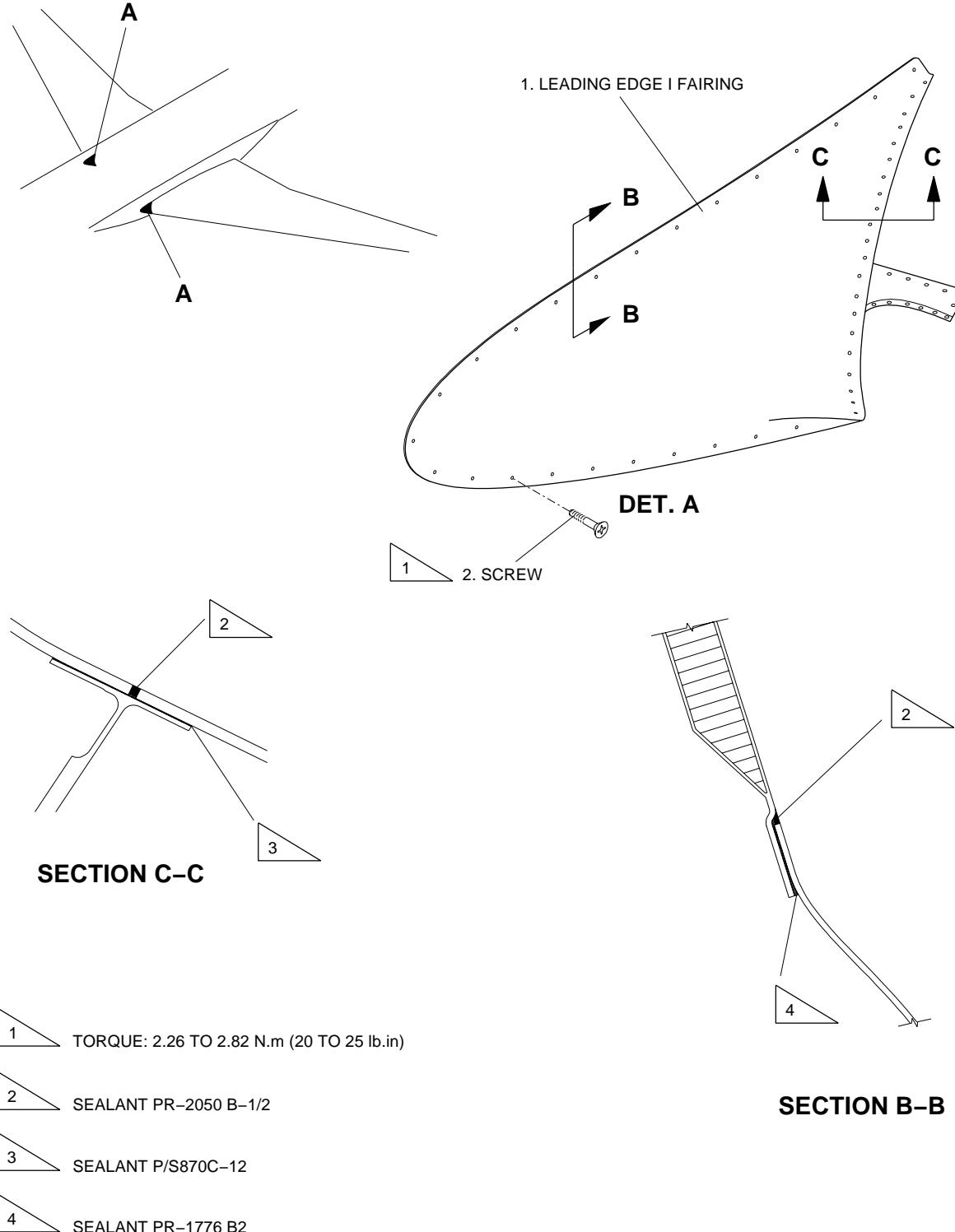
- (1) Remove the screws (2) that attach the leading edge I fairing (1). Refer to DET. A.

NOTE: Screws of different lengths are used in the leading edge I fairing installation.  
Use adhesive tape to mark the position of the screws.

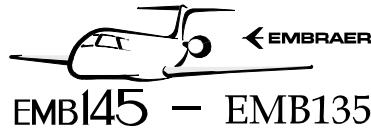
- (2) Remove the leading edge I fairing (1).

**EFFECTIVITY: ALL**

Leading Edge I Fairings - Removal/Installation  
Figure 401



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TASK 57-40-01-400-801-A

EFFECTIVITY: ALL

3. LEADING EDGE L FAIRINGS - INSTALLATION

## A. General

(1) This task gives the procedures to install the leading edge I fairings.

## B. References

REFERENCE	DESIGNATION
AMM TASK 33-41-02-400-801-A/400	LANDING LIGHT LAMP - INSTALLATION
SRM 51-20-01	-

## C. Zones and Accesses

Not Applicable

## D. Tools and Equipment

Not Applicable

## E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Acrylic spatula	To apply the sealant	1
Commercially available	Lint-free cloth	For cleaning	AR

## F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-PRF-81733 Type II - CLASS B	Sealant PR-2050 B-1/2	AR
MIL-S-81733 Type IV-12	Sealant P/S870C-12	AR
MIL-D-16791G Type 1	Neutral Liquid Detergent	AR
AMS 3281 Class B2	Sealant PR-1776 B2	AR

## G. Expandable Parts

Not Applicable

## H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Leading edge I

## I. Installation (Figure 401)

## SUBTASK 420-002-A

(1) Clean the surface.

NOTE: If the necessary, use a cloth soaked in neutral liquid detergent.

- (2) With an acrylic spatula, apply sealant to the faying surface of leading edge I fairing (1). Refer to (Figure 401), SECTION B-B and SECTION C-C.
- (3) Install the leading edge I fairing (1).
- (4) Install the screws (2) that attach the leading edge I fairing (1).
- (5) Torque the screws (2) to 2.26 to 2.82 N.m (20 to 25 lb.in).

J. Follow-on

**SUBTASK 842-002-A**

- (1) Install the lens of the landing light ([AMM TASK 33-41-02-400-801-A/400](#)).
- (2) There are different methods to do the aerodynamic sealing along the gaps between the leading edge and the wing. Use the applicable procedure as necessary.
  - (a) Full sealant-curing time:
    - 1 Apply sealant PR 2050 B-1/2.

NOTE: The sealant curing time will change with the environmental conditions (SRM 51-20-01).
    - 2 Acceleration of sealant curing time with heating:
      - 1 Apply sealant PR 2050 B-1/2.
      - 2 Wait for one hour after the sealant is applied.

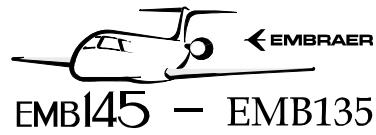
CAUTION: THE TEMPERATURE MUST NOT BE HIGHER THAN 55°C (131°F).

      - 3 Heat the area which received the sealant.

NOTE: Sealant curing time versus temperature rate changes as shown in the Sealant Specification Table (SRM 51-20-01).
    - 3 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 PR 2050 B-1/2.
      - 2 You can accelerate the sealant curing time as written in paragraph (b).
      - 3 After the 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 PR 2050 B-1/2.



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2 Apply a polyethylene film on the sealant.

3 Apply the aluminum tape.

NOTE: You can operate the aircraft immediately after the aluminum tape is applied.

4 Remove the aluminum tape after 10 days.

