

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 - INSTALLATION | ALL |

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.

- (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.

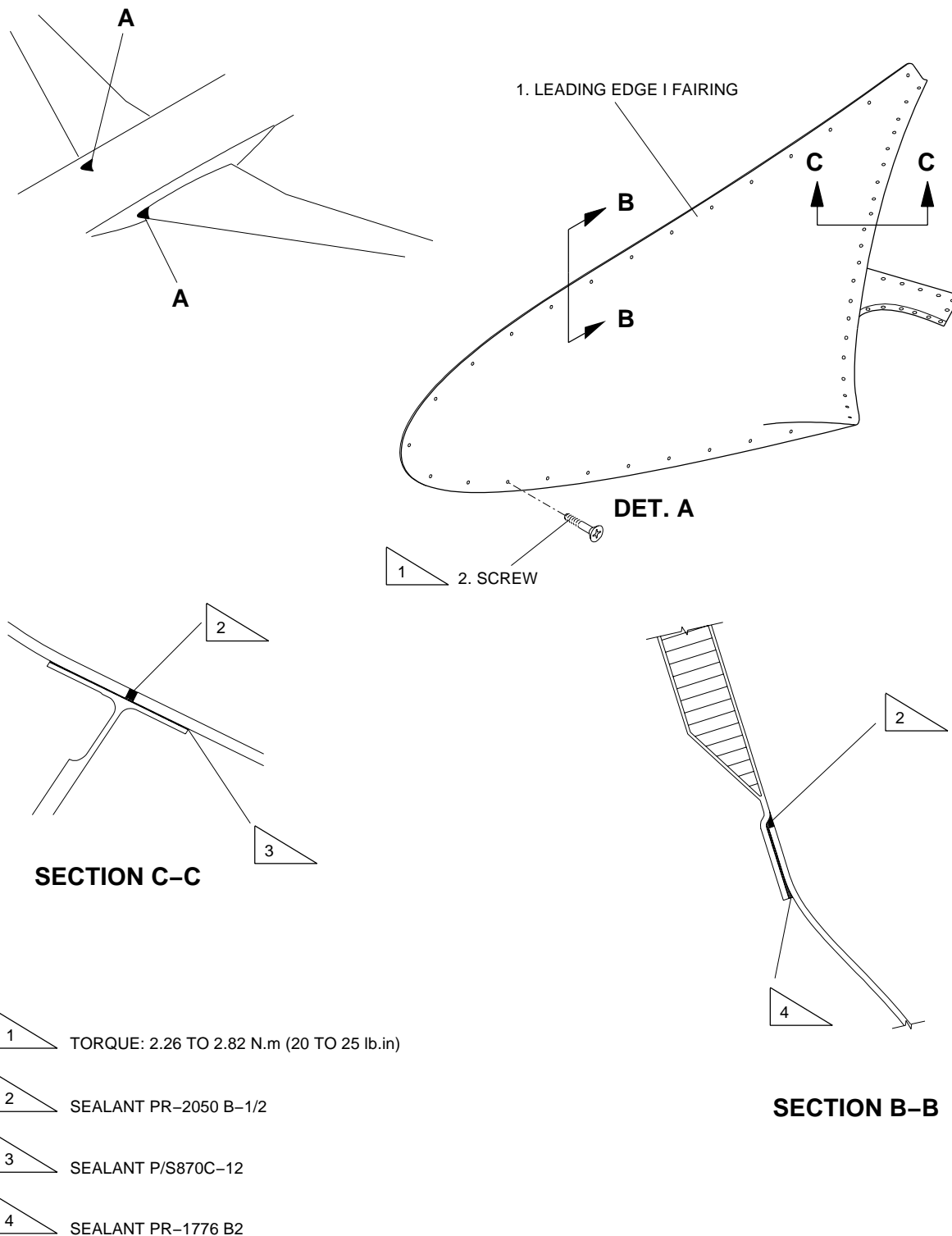
NOTE: Screws of different lengths are used in the leading edge I fairing installation.
Use adhesive tape to mark the position of the screws.

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

EFFECTIVITY: ALL

Leading Edge I Fairings - Removal/Installation

Figure 401



EM145AMM570099A.DGN

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 l 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 l |

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).

(b) 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).

(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 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.

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.

