



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

FRONT FIXED-FAIRING POLYURETHANE FILM - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and apply the front fixed-fairing polyurethane film.
- 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).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
55-36-02-000-801-A	FRONT FIXED-FAIRING POLYURETHANE ALL FILM - REMOVAL	
55-36-02-400-801-A	FRONT FIXED-FAIRING POLYURETHANE ALL FILM - INSTALLATION	



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TASK 55-36-02-000-801-A

EFFECTIVITY: ALL

2. FRONT FIXED-FAIRING POLYURETHANE FILM - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the front fixed-fairing polyurethane film.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
321		Tail boom

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Spatula	To remove the old film	1

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Tail boom

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

SUBTASK 020-002-A

- (1) Prepare the new film with the old film as a template. Mark the contour to cut the excess material of the new film to the correct size. Refer to steps A and B.

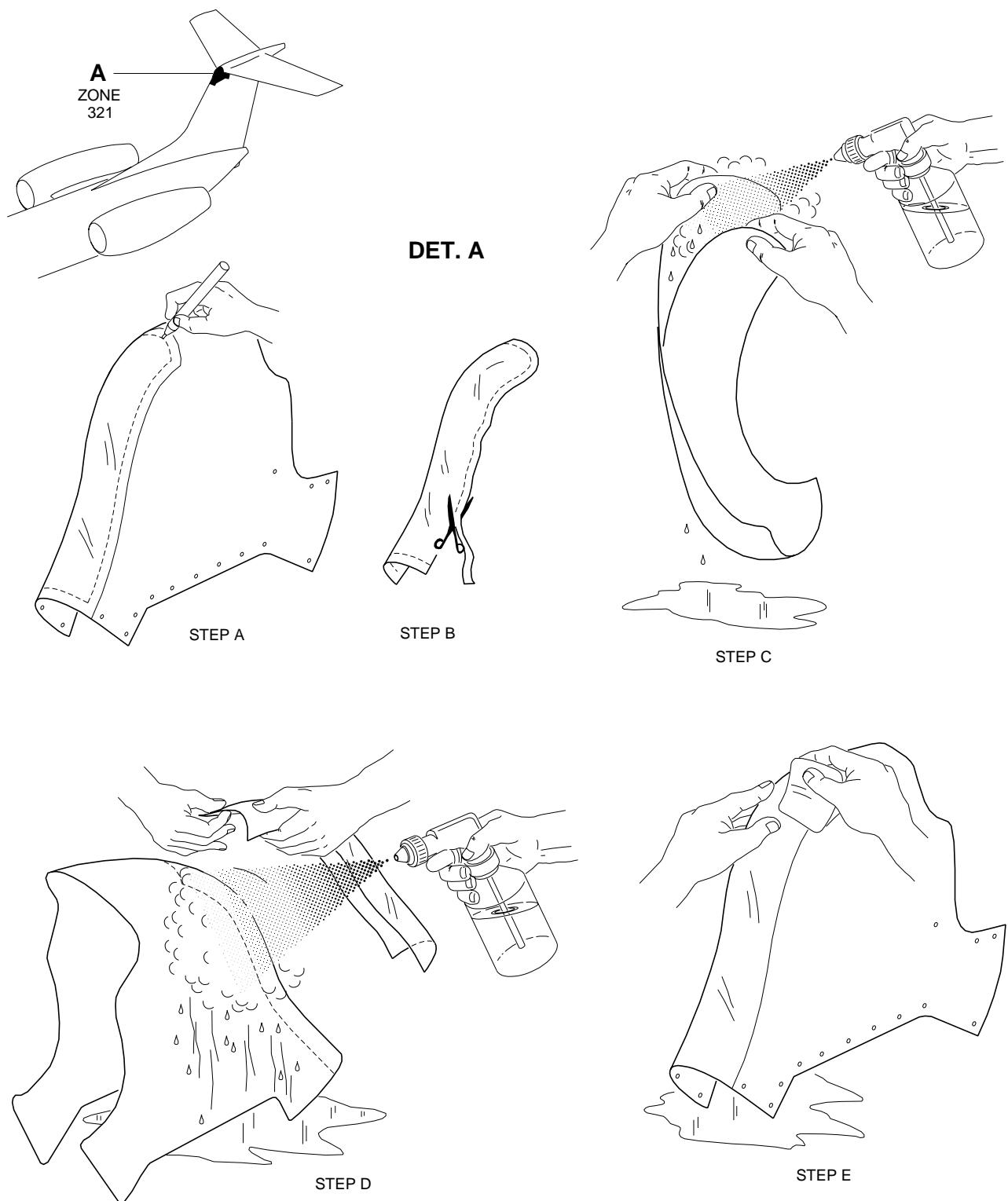
CAUTION: BE CAREFUL WHEN YOU REMOVE THE OLD FILM TO PREVENT DAMAGE TO THE FAIRING SURFACE.

- (2) Remove the old polyurethane film. For this, use a spatula and pull the film.

EFFECTIVITY: ALL

Front Fixed-Fairing Polyurethane Film - Removal/Installation

Figure 401



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TASK 55-36-02-400-801-A

EFFECTIVITY: ALL

3. FRONT FIXED-FAIRING POLYURETHANE FILM - INSTALLATION

A. General

(1) This procedure gives the instructions to apply the front fixed-fairing polyurethane film.

B. References

REFERENCE	DESIGNATION
AMM TASK 55-36-02-000-801-A/400	FRONT FIXED-FAIRING POLYURETHANE FILM - REMOVAL
IPC 11-21-05	EXTERIOR DECAL, CORROSION PROTECTION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
321		Tail boom

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Spatula	To squeegee unapplied film and eliminate air bubbles	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MEP 21-012	Neutral Liquid Detergent	AR
FED. SPEC. TT-I-735	Isopropyl Alcohol	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Polyurethane film	IPC 11-21-05	AR

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Tail boom
1	Helps the other technician	Tail boom



AIRCRAFT MAINTENANCE MANUAL

I. Preparation (Figure 401)

SUBTASK 841-002-A

- (1) Fully mix neutral liquid detergent with isopropyl alcohol and water. The solution must contain approximately 2.5% of liquid detergent, 24.5% of isopropyl alcohol, and 73% of water.

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Use the old film as a reference to cut the new film to the correct size. Refer to steps A and B ([AMM TASK 55-36-02-000-801-A/400](#)).
- (2) Clean the front fixed-fairing surface and the polyurethane film with a cloth wet with isopropyl alcohol.

CAUTION: DO NOT PERMIT THE ADHESIVE SIDE OF THE FILM TO BE TOUCHED TO PREVENT FINGERPRINTS AND LOSS OF ADHESIVENESS.

- (3) Separate the liner from the film and spray the detergent solution on the adhesive surface at the same time. Refer to step C.
- (4) Wet the front fixed fairing surface with detergent solution.
- (5) Align the film and press on edge to surface with fingers. Refer to step D.

CAUTION: IF AIR BUBBLE OCCURS, DO NOT MAKE A HOLE IN THE FILM TO ELIMINATE THE AIR BUBBLE.

- (6) Squeeze the water out from the front fixed fairing with the spatula. Refer to step E.

NOTE: If an air bubble occurs, pull the film back until you get to the location of the air bubble, spray with detergent solution, and apply the film again.

- (7) After one hour, the fairing with the film is ready for service.

