



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

NACA-AIR-INTAKE POLYURETHANE FILM AT THE FORWARD WING-TO-FUSELAGE FAIRING -
REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the Naca-Air-Intake polyurethane film at the Forward 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
53-04-02-000-801-A	NACA-AIR-INTAKE POLYURETHANE FILM AT THE FORWARD WING-TO-FUSE- LAGE FAIRING- REMOVAL	ALL
53-04-02-400-801-A	NACA-AIR-INTAKE POLYURETHANE FILM AT THE FORWARD WING-TO-FUSE- LAGE FAIRING- INSTALLATION	ALL



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 53-04-02-000-801-A

EFFECTIVITY: ALL

2. NACA-AIR-INTAKE POLYURETHANE FILM AT THE FORWARD WING-TO-FUSELAGE FAIRING-REMOVAL

A. General

- (1) This task gives the instructions to remove the Naca-Air-Intake polyurethane film at the Forward Wing-to-Fuselage Fairing.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191		Forward wing-to-fuselage fairing

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

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

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Forward wing-to-fuselage fairing

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

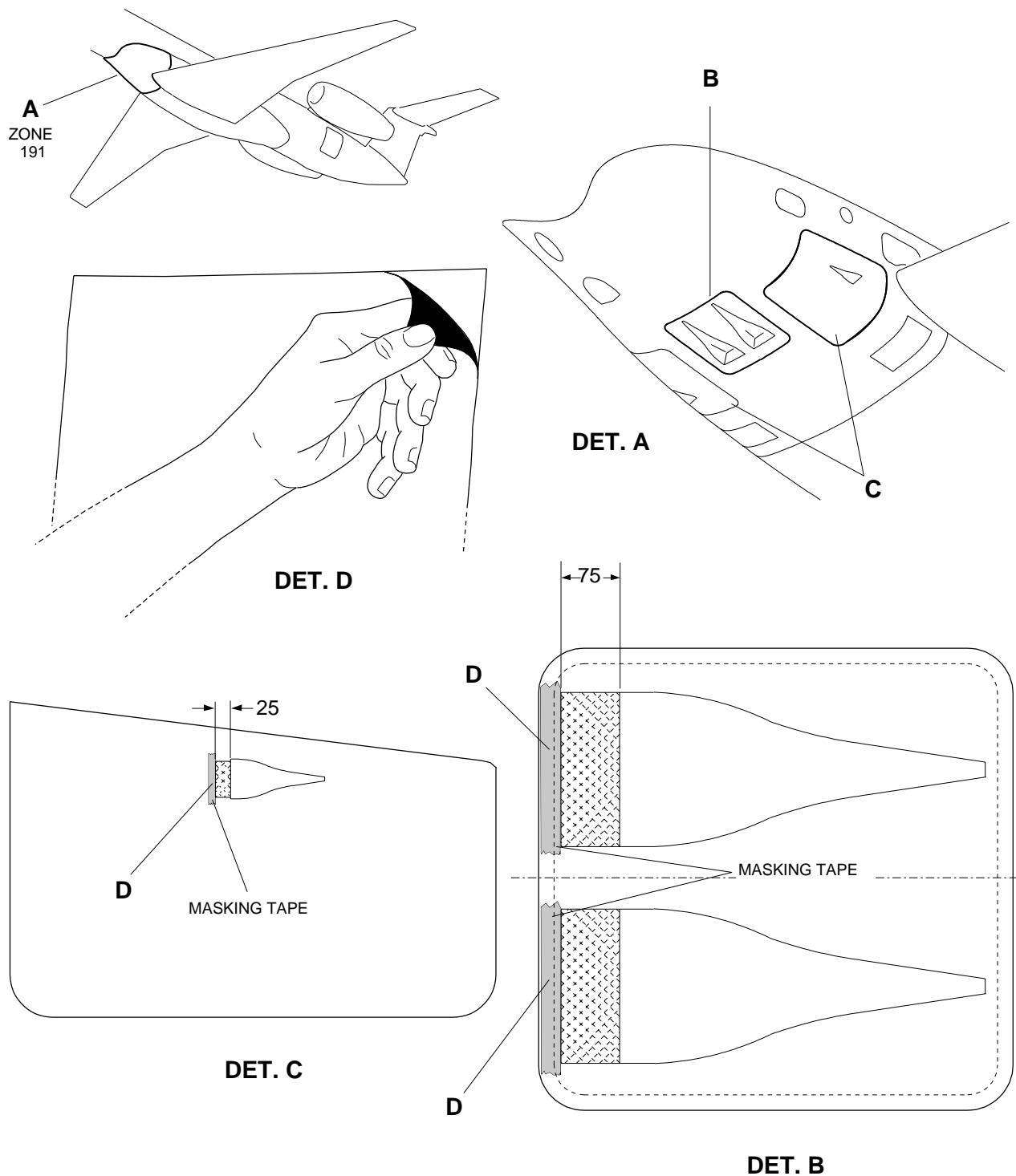
SUBTASK 020-002-A

- (1) **NOTE:** Be careful when you remove the old polyurethane film to prevent damage to the Naca Air Intake surface.

From the external side, lift an edge of the old polyurethane film and, with the spatula, start to remove the film.

EFFECTIVITY: ALL

Naca-Air-Intake Polyurethane Film at Forward Wing-to-Fuselage Fairing- Removal/Installation
Figure 401



DIMENSIONS IN mm.

145AMM530065.MCE



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 53-04-02-400-801-A

EFFECTIVITY: ALL

3. NACA-AIR-INTAKE POLYURETHANE FILM AT THE FORWARD WING-TO-FUSELAGE FAIRING-INSTALLATION

A. General

- (1) This task gives the instructions to install the Naca-Air-Intake polyurethane film at the Forward Wing-to-Fuselage Fairing.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
IPC 11-21-05	EXTERIOR DECAL, CORROSION PROTECTION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
113		Forward wing-to-fuselage fairing

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Spatula	To install the film	1
Commercially available	Rubber gloves	To protect the hands	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
FED. SPEC. TT-M-261	Methyl-ethyl-ketone	AR
	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	1



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Forward wing-to-fuselage fairing

I. Preparation

SUBTASK 841-002-A

WARNING: WEAR RUBBER GLOVES TO PROTECT YOURSELF AGAINST CHEMICAL PRODUCT.

- (1) Prepare the wetting solution, whose composition is 2.5% neutral liquid detergent, 24.5% isopropyl alcohol, and 73% water.

J. Installation (Figure 401)

SUBTASK 420-002-A

CAUTION: THE NACA AIR-INTAKE SURFACE MUST BE FREE OF OILS, GREASES, AND RESINS.

- (1) Clean the Naca Air-Intake surface with methyl-ethyl-ketone.
- (2) Install the masking tape. For polyurethane film installed at access panel 191GL, see DET. B. For polyurethane film installed at access panel 191EL or 191FR, see DET. C (Refer to AMM MPP 06-41-01/100).
- (3) Spray the Naca Air-Intake surface with wetting solution.

CAUTION: THE ADHESIVE SURFACES OF THE POLYURETHANE FILM MUST NOT BE JOINED TOGETHER.

- (4) Start the removal of the liner protection from the small section (Refer to DET. D).
- (5) With the masking tape used as a reference, put the film on the Naca air-intake surface. Make a pressure with the spatula to move the wetting liquid out. Do it from the center to the edges of the polyurethane film to prevent air bubbles.
- (6) **NOTE:** The wind pressure against the polyurethane film will not tend to cause the edge lifting.

One hour after the application of the polyurethane film, the Naca Air Intake is ready for service.

