

NACA-AIR-INTAKE POLYURETHANE FILM AT FORWARD FUSELAGE I - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

1. General

- A. This section gives the procedures to remove and install the Naca-Air-Intake polyurethane film at Forward Fuselage I.
- 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
53-11-06-000-801-A	NACA-AIR-INTAKE POLYURETHANE FILM AT FORWARD FUSELAGE I - REMOVAL	ACFT MODEL(S) EMB-145
53-11-06-400-801-A	NACA-AIR-INTAKE POLYURETHANE FILM AT FORWARD FUSELAGE I - INSTALLATION	ACFT MODEL(S) EMB-145

TASK 53-11-06-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

2. NACA-AIR-INTAKE POLYURETHANE FILM AT FORWARD FUSELAGE I - REMOVAL

A. General

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

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
113		Forward fuselage I - LH
114		Forward fuselage I - RH

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 fuselage I

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

SUBTASK 020-003-A

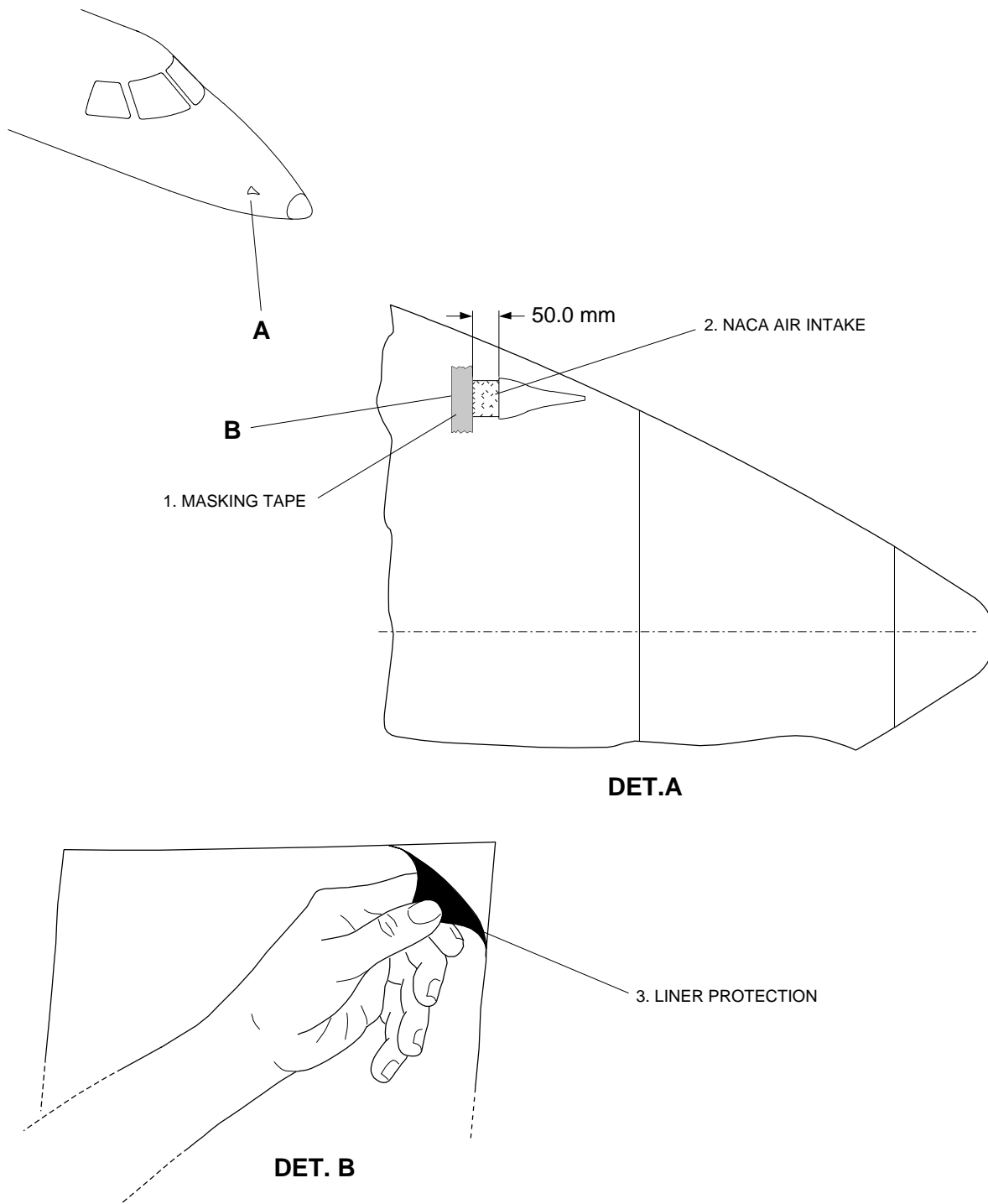
- (1) **NOTE:** Be careful when you remove the old polyurethane film to prevent damage to the Naca Air-Intake surface.

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

EFFECTIVITY: ACFT MODEL(S) EMB-145

Naca-Air-Intake Polyurethane Film at Forward Fuselage I - Removal/Installation

Figure 401



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TASK 53-11-06-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

3. NACA-AIR-INTAKE POLYURETHANE FILM AT FORWARD FUSELAGE I - INSTALLATION

A. General

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

B. References

REFERENCE	DESIGNATION
IPC 11-21-05	EXTERIOR DECAL, CORROSION PROTECTION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
113		Forward fuselage I - LH
114		Forward fuselage I - RH

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 hand	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

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Forward fuselage I

I. Preparation

SUBTASK 841-003-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 420-003-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 (Refer to Det. A).
- (3) Spray the Naca Air-Intake surface with wetting solution.

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

- (4) Start the removal of the liner protection from the small section (Refer to Det. B).
- (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:** Thus, the wind pressure against the polyurethane film does not tend to cause edge lifting.

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

