



AIRCRAFT  
MAINTENANCE MANUAL

**MAIN LANDING-GEAR DOOR POLYURETHANE FILM - REMOVAL/INSTALLATION**

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the polyurethane film at the doors of the main landing gears.
- 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
32-10-12-000-801-A	MAIN LANDING-GEAR DOOR POLYUR-ETHANE FILM - REMOVAL	ALL
32-10-12-400-801-A	MAIN LANDING-GEAR DOOR POLYUR-ETHANE FILM - INSTALLATION	ALL



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TASK 32-10-12-000-801-A

EFFECTIVITY: ALL

2. MAIN LANDING-GEAR DOOR POLYURETHANE FILM - REMOVAL

A. General

- (1) This task gives the instructions to remove the polyurethane film at the doors of the main landing gears.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
721	721 RH	MLG Doors - RH
722	722 RH	MLG Doors - RH
731	731 LH	MLG Doors - LH
732	732 LH	MLG Doors - LH

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Plastic 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	Main landing-gear doors

H. Removal (Figure 401) (Figure 402)

SUBTASK 020-002-A

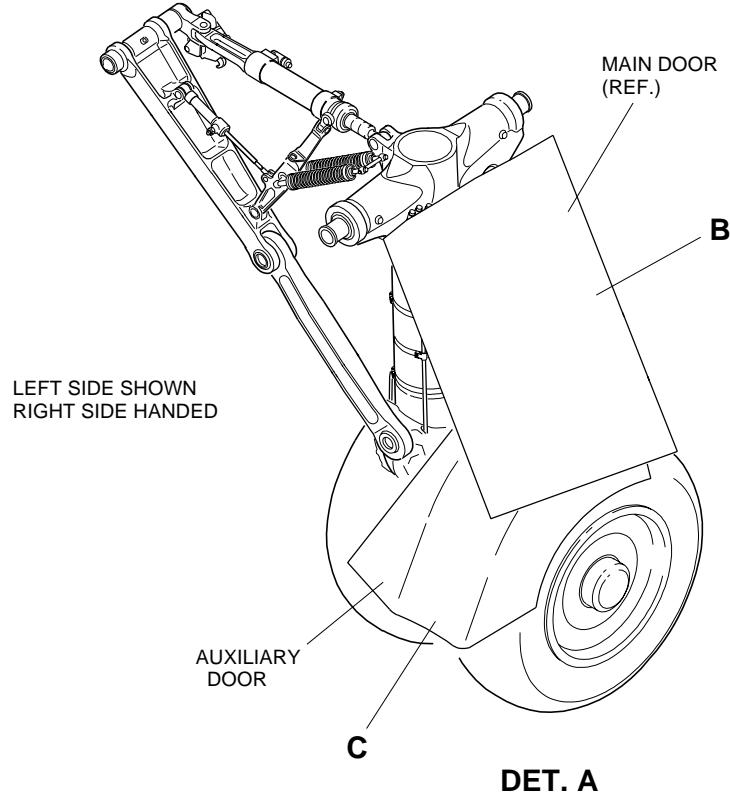
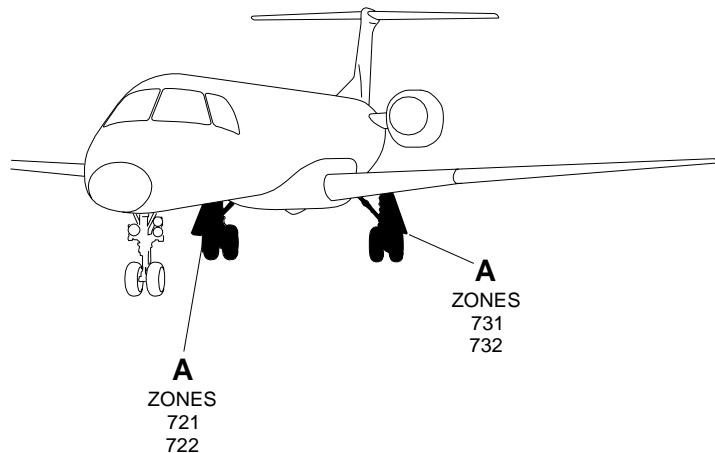
**CAUTION: BE CAREFUL WHEN YOU REMOVE THE OLD POLYURETHANE FILM TO PREVENT DAMAGE TO THE SURFACE OF THE MAIN LANDING-GEAR DOORS.**

- (1) From the external side, lift an edge of the old polyurethane film and, with the spatula, start to remove the film. As an aid, pull the film at the same time.

**EFFECTIVITY: ALL**

Main Landing-Gear Door Polyurethane Film - Removal/Installation

Figure 401

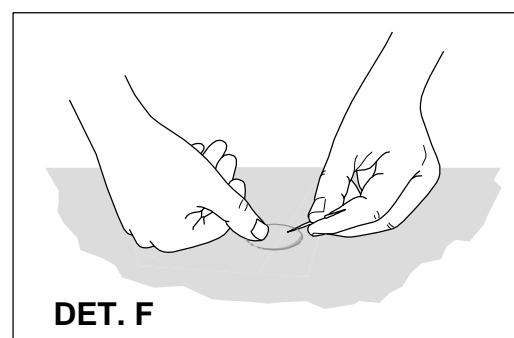
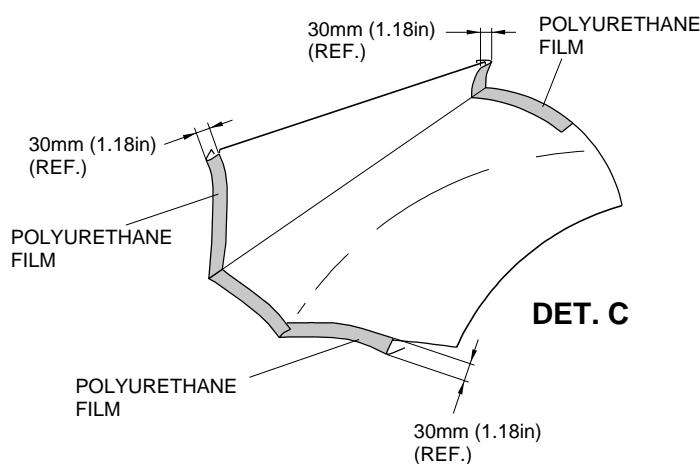
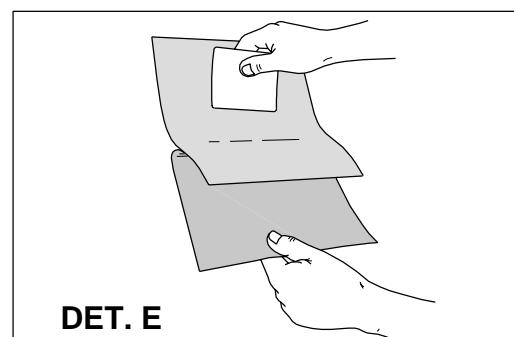
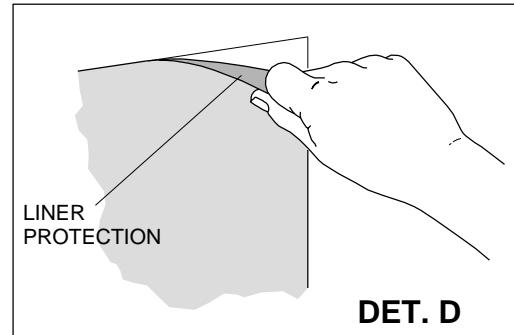
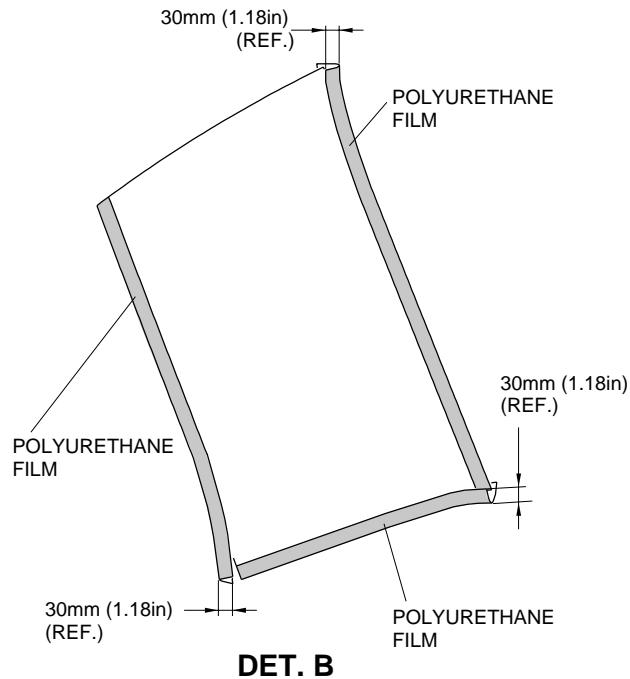


EM145AMM320376B.DGN

**EFFECTIVITY: ALL**

Main Landing-Gear Door Polyurethane Film - Removal/Installation

Figure 402





AIRCRAFT  
MAINTENANCE MANUAL

TASK 32-10-12-400-801-A

EFFECTIVITY: ALL

3. MAIN LANDING-GEAR DOOR POLYURETHANE FILM - INSTALLATION

A. General

- (1) This task gives the instructions to install the polyurethane film at the doors of the main landing gears.

B. References

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

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
721	721 RH	MLG Doors - RH
722	722 RH	MLG Doors - RH
731	731 LH	MLG Doors - LH
732	732 LH	MLG Doors - LH

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

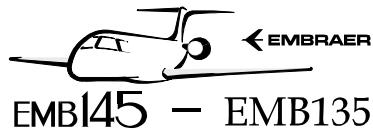
ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Plastic Spatula	To install the film and remove air bubbles	1
Commercially available	Rubber gloves	To protect the hand	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
FED. SPEC. TT-I-735	Isopropyl alcohol	AR

G. Expendable Parts

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



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Main landing-gear doors

I. Preparation

SUBTASK 841-002-A

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

**CAUTION: THE SURFACES MUST BE FREE OF OILS, GREASES, AND RESINS TO GET A GOOD ADHESION OF POLYURETHANE FILM.**

- (1) Clean the surfaces where the polyurethane film will be bonded with a cloth wet with isopropyl alcohol.
- (2) Use the old film as a reference to cut the new film to the correct size, if necessary.

J. Installation (Figure 401) (Figure 402)

SUBTASK 420-002-A

**CAUTION:** • THE ADHESIVE SURFACES OF THE POLYURETHANE FILM MUST NOT BE JOINED.  
• DO NOT TOUCH THE ADHESIVE SIDE OF THE FILM TO PREVENT FINGERPRINTS AND LOSS OF ADHESIVENESS.

- (1) Start the removal of the liner protection from the small section (Refer to Figure 402 DET. D).
- (2) Align the film and press the edges against the surface with fingers.
- (3) Squeegee the film into place with firm overlapping strokes across the width of the film while you remove the remaining liner a few inches at a time to prevent pre-adhesion (Refer to Figure 402 DET. E). Make a pressure with the plastic spatula from the center to the edges of the polyurethane film to prevent air bubbles.

**NOTE:** Thus, the wind pressure against the polyurethane film will not cause edge lifting.

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

- (4) If there are air bubbles after the application, puncture the film at one end of a bubble with a pin or other sharp, pointed tool (do not use knife or razor blade), and press out the entrapped air with a squeegee or finger toward the puncture (Refer to Figure 402 DET. F).
- (5) One hour after the application of the polyurethane film, the MLG doors are ready for service.