



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

COCKPIT EMERGENCY EXIT - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the cockpit emergency exit.
- 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
56-11-01-000-801-A	COCKPIT EMERGENCY EXIT - REMOVAL	ALL
56-11-01-400-801-A	COCKPIT EMERGENCY EXIT - INSTALLA- TION	ALL
56-11-01-000-802-A	COCKPIT EMERGENCY EXIT TRANS- PARENCY - REMOVAL	ALL
56-11-01-400-802-A	COCKPIT EMERGENCY EXIT TRANS- PARENCY - INSTALLATION	ALL



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TASK 56-11-01-000-801-A

EFFECTIVITY: ALL

2. COCKPIT EMERGENCY EXIT - REMOVAL

A. General

- (1) This task gives the procedures to remove the cockpit emergency exits.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223		Cockpit emergency exit, LH
224		Cockpit emergency exit, RH

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the cockpit emergency exits

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

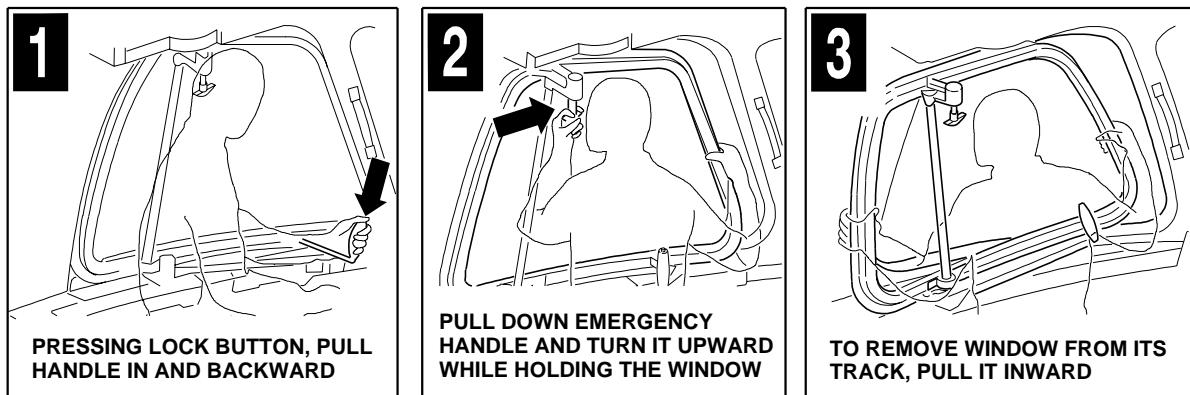
SUBTASK 020-002-A

- (1) Push and hold the lock button.
- (2) Pull the handle in and rearward to partially open the window.
- (3) Pull the emergency handle down and turn it up while you hold the window.
- (4) Pull the window in to remove it from its track.
- (5) Put the window on a safe surface to prevent damage.

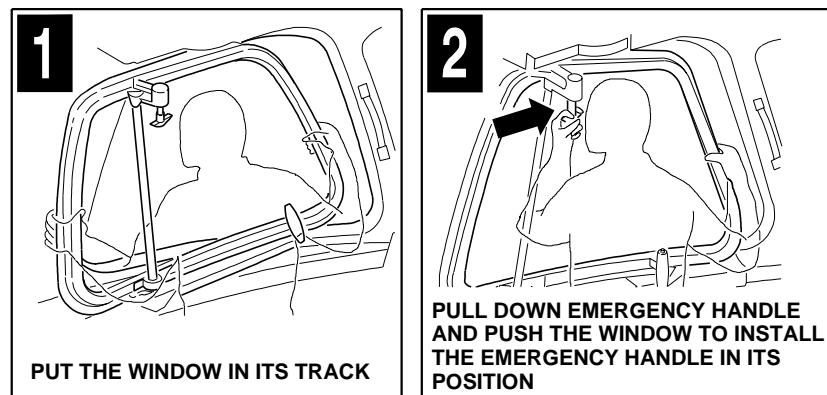
EFFECTIVITY: ALL

Cockpit Emergency Exit - Removal/Installation
Figure 401

TO REMOVE



TO INSTALL



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TASK 56-11-01-400-801-A

EFFECTIVITY: ALL

3. COCKPIT EMERGENCY EXIT - INSTALLATION

A. General

- (1) This task gives the procedures to install the cockpit emergency exit.

B. References

REFERENCE	DESIGNATION
AMM TASK 21-31-00-860-801-A/200	PROCEDURE TO PRESSURIZE THE AIRCRAFT FOR MAINTENANCE
AMM TASK 21-31-00-860-802-A/200	PROCEDURE TO DEPRESSURIZE THE AIRCRAFT FOR MAINTENANCE
AMM TASK 56-11-00-820-801-A/500	COCKPIT EMERGENCY EXIT - ALIGNMENT
AMM TASK 56-11-00-820-802-A/500	COCKPIT EMERGENCY EXIT - ADJUSTMENT

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223		Cockpit emergency exit, LH
224		Cockpit emergency exit, RH

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the cockpit emergency exits

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the window on the lower track.
- (2) Pull the emergency handle down and push the window to install the emergency handle in its correct position.
- (3) Move the lower grip forward up to its stop and latch the mechanism.



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NOTE: You will see a WINDOW NOT CLOSED inscription, on the window front frame, when the window is not correctly closed.

J. Follow-on

SUBTASK 842-002-A

- (1) Do the alignment of the cockpit emergency exit ([AMM TASK 56-11-00-820-801-A/500](#)).
- (2) If you are installing one new DV Window, do the steps below:
 - (a) Do the adjustment of the Cockpit Emergency Exit ([AMM TASK 56-11-00-820-802-A/500](#)).
 - (b) Pressurize the aircraft ([AMM TASK 21-31-00-860-801-A/200](#)).
 - (c) Make sure that there is no air leakage through the cockpit emergency exit. If there is no leakage, the aircraft can be operated.
 - (d) Depressurize the aircraft ([AMM TASK 21-31-00-860-802-A/200](#)).



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TASK 56-11-01-000-802-A

EFFECTIVITY: ALL

4. COCKPIT EMERGENCY EXIT TRANSPARENCY - REMOVAL

A. General

- (1) This task gives the procedures to remove the cockpit emergency exits (direct-vision windows) transparency.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223		Cockpit emergency exit, LH
224		Cockpit emergency exit, RH

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the cockpit emergency exits

H. Removal ([Figure 402](#))

SUBTASK 020-003-A

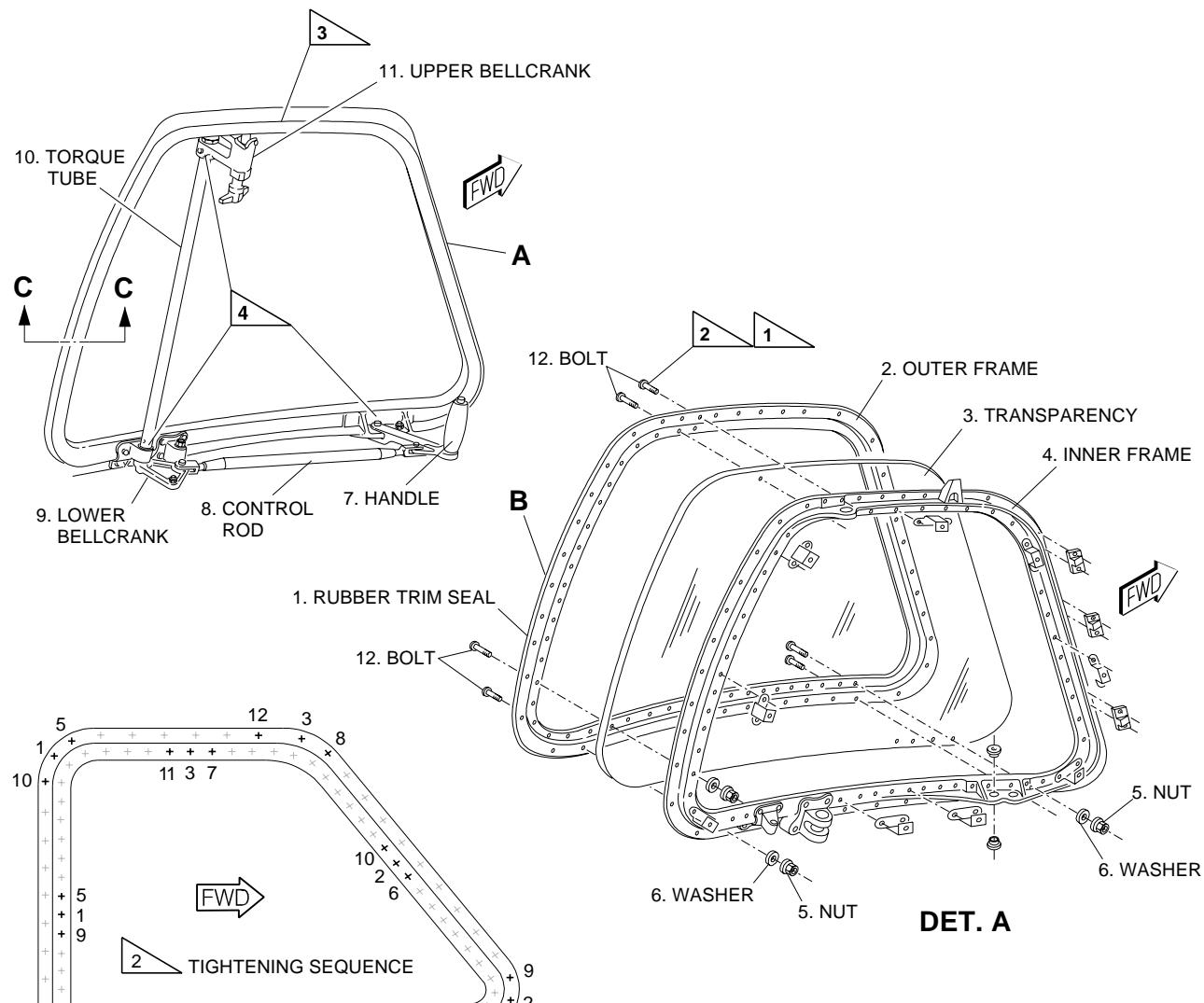
- (1) Make sure that the aircraft is safe for maintenance.
- (2) Remove the cockpit emergency exits (direct-vision windows) (AMM TASK 56-11-01-000-801-A/400).
- (3) Remove the cockpit emergency exits linings (AMM TASK 25-12-09-000-801-A/400).
- (4) Remove the cockpit emergency exits transparency as follows:
- (5) Disassemble the actuating mechanism:
 - (a) Remove the cotter pins, washers, and pins from the control rod (8).
 - (b) Remove the control rod (8) from the window assembly.
 - (c) Remove the nut and screw from the lower bellcrank (9).
 - (d) Remove the lower bellcrank (9) from the torque tube (10).

- (e) Remove the nut and screw from the upper bellcrank (11).
 - (f) Remove the upper bellcrank (11) and torque tube (10) from the window frame.
 - (g) Remove the cotter pin, washer, shim, and pin from the handle (7).
 - (h) Remove the handle (7) from the window frame.
- (6) Disassemble the cockpit emergency exits transparency:
- (a) Remove the cockpit emergency exit rubber trim seal (AMM TASK 56-11-02-000-801-A/400).
 - (b) Disassemble the window
 - 1 Remove the nuts (5), washers (6) and bolts (12).
NOTE: Identify the bolts and nuts removed from each position.
 - 2 Slowly release the outer frame (2) with a cutter until the outer frame (2) is fully detached from the inner frame (4) and from the transparency (3).
 - 3 Remove the old sealant from the transparency (3) and from the internal part of the inner frame (4) and outer frame (2) with an acrylic spatula.
 - 4 With a cloth soaked in Isopropyl Alcohol TT-I-735, clean all the surfaces
NOTE: Make sure that all the surfaces where the new sealant will be applied are free of residues of sealant.

EFFECTIVITY: ALL

Cockpit Emergency Exit Transparency - Disassembly/Assembly

Figure 402


DET. B

1 TORQUE: 3 TO 3.6 N.m (27 TO 32 lb.in)

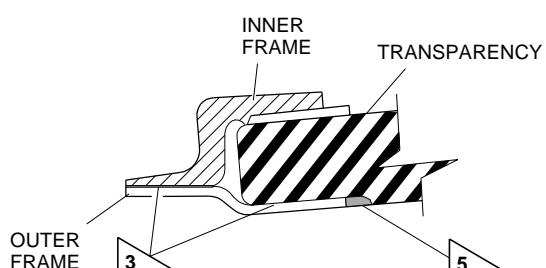
2 TIGHTENING SEQUENCE:

- 1st – INNER SIDE
- 2nd – OUTER SIDE

3 APPLY INTERFACE SEALANT PR1425 B1/2 TO ALL CONTOUR

4 APPLY MOLYKOTE DC-33 LIGHT GREASE

5 APPLY SMOOTHNESS SEALANT PR1425 B1/2 TO ALL CONTOUR


SECTION C-C

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TASK 56-11-01-400-802-A
EFFECTIVITY: ALL
5. COCKPIT EMERGENCY EXIT TRANSPARENCY - INSTALLATION
A. General

- (1) This task gives the procedures to install the cockpit emergency exit (direct-vision window) transparency.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223		Cockpit emergency exit, LH
224		Cockpit emergency exit, RH

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the cockpit emergency exits

H. Installation (Figure 401)
SUBTASK 420-003-A

- (1) Put the transparency (3) between the inner frame (4) and the outer frame (2).
 - (2) If you are replacing the inner frame (4) or the outer frame (2), do as follows:
 - (a) **NOTE:** When the inner and/or outer frames are to be replaced, use the transparency as a template to drill the holes in the frame(s).
Hold the frames and drill the holes.
 - (b) Install the inner frame (4) and outer frame (2). Adjust the outer frame contour.
 - (3) Install the stops, supports, and related shims on the inner frame (4).
 - (4) Apply the sealant PR1425 B1/2 on the inner surface of the inner frame (4) and on the inner surface of the outer frame (2) (faying surfaces).
- NOTE:** For alternative sealant, refer to SRM 51-20-01.

- (5) Put the transparency (3) between the inner frame (4) and the outer frame (2) and assemble them.
- (6) Install all bolts (12) around the cockpit emergency exit.

NOTE: Apply the sealant PR1425 B1/2 on the screws. Clean all screw threads to prevent the sealant from interfering with the assembly torque.

NOTE: Look at the identification of the screws to make sure that they are installed in the same position from where they were removed.
- (7) Install the related washers (6) and nuts (5), and use a dial-type torque wrench to tighten them with a torque of 3 to 3.6 N.m (27 to 32 lb.in) in the sequence shown in Figure 401.

NOTE: After the installation of the bolts shown in Figure 1, the order of installation of the remaining bolts is not important.
- (8) Put the handle (7) on the inner frame housing. Apply grease MOLYKOTE DC-33LIGHT on the interface between the pin and the bushing. Install the handle (7) on the cockpit emergency exit assembly.
- (9) Apply grease MOLYKOTE DC-33LIGHT on the torque tube (10) ends.
- (10) Install the upper bellcrank (11) on the inner frame.
- (11) Install the torque tube (10) on the upper bellcrank (11) and on the inner frame support.
- (12) Install the lower bellcrank (9) on the torque tube (10).
- (13) Install the cockpit emergency exit rubber trim seal (AMM TASK 56-11-02-400-801-A/400).
- (14) Do the adjustment of the cockpit emergency exit (AMM TASK 56-11-00-820-802A/500)
- (15) Install the cockpit emergency exit linings (AMM TASK 25-12-09-400-801-A/400).
- (16) Install the cockpit emergency exit (direct-vision window) (AMM TASK 56-11-01-400-801-A/400).
- (17) Put the aircraft back to its initial condition.