



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

EMERGENCY/PARKING BRAKE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the emergency/parking brake handle.
- 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
32-44-11-000-801-A	EMERGENCY/PARKING BRAKE - RE- MOVAL	ALL
32-44-11-400-801-A	EMERGENCY PARKING BRAKE - INSTAL- LATION	ALL



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TASK 32-44-11-000-801-A

EFFECTIVITY: ALL

2. EMERGENCY/PARKING BRAKE - REMOVAL

A. General

- (1) This task gives the procedures to remove the emergency/parking brake cables and the handle.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM TASK 10-10-01-500-801-A/200	AIRCRAFT NORMAL PARKING
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
710		NLG Bay
123	123BL	Controls, rigging door

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Local available	Fluorescent Work Light - Explosion Proof - 60 W minimum	To remove the emergency/parking brake handle and the cable guards	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose Landing Gear Bay, Cockpit and Maintenance Panel 123BL

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the landing gear safety pins are installed ([AMM TASK 32-00-01-910-801-A/200](#)).
- (2) Put a chock in the landing gear wheels ([AMM TASK 10-10-01-500-801-A/200](#)).

- (3) Get access to the nose landing gear bay.

J. Removal (Figure 401) (Figure 402)

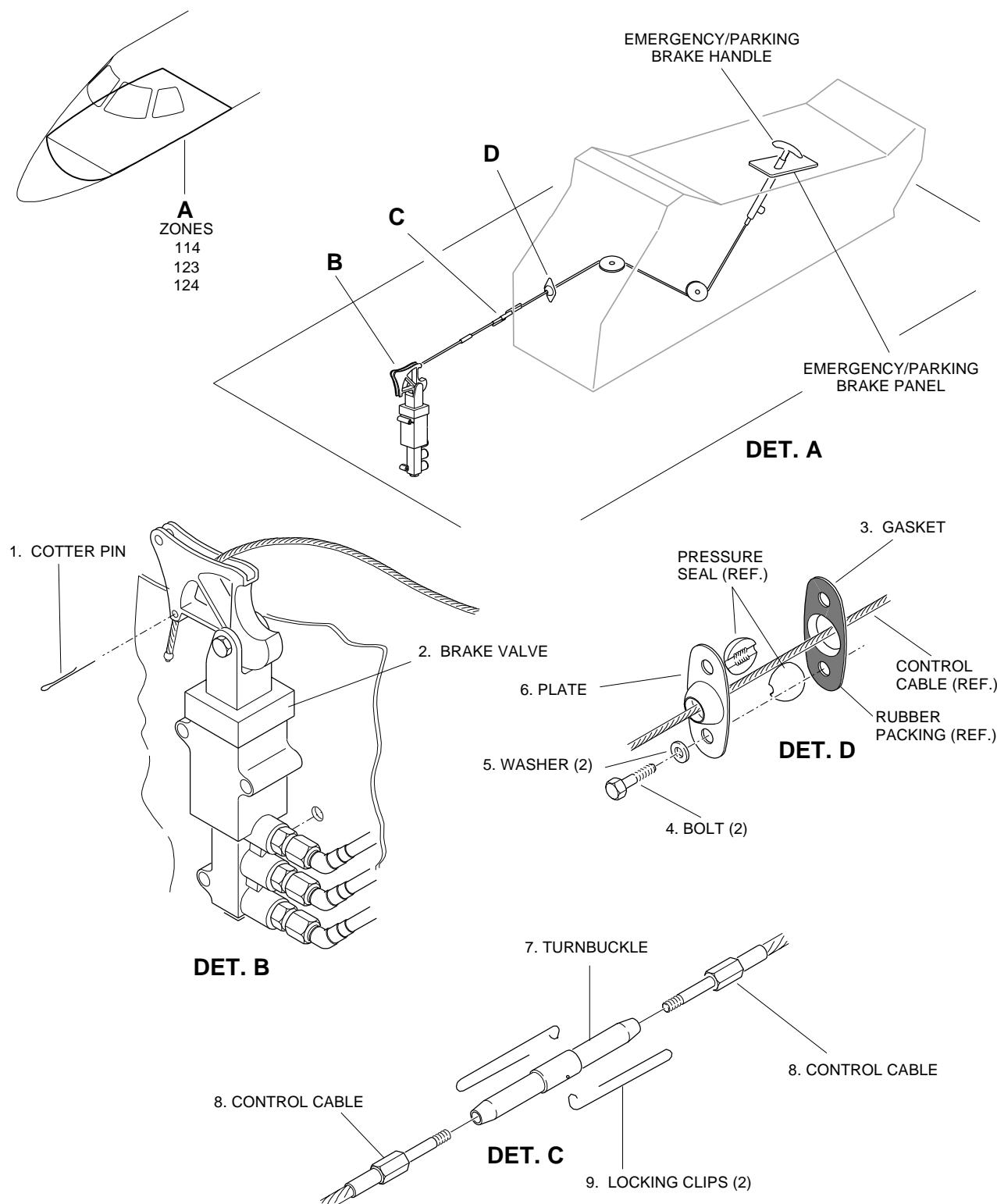
SUBTASK 020-002-A

- (1) To remove the emergency/parking brake cable from the emergency/parking brake valve to the turnbuckle, do as follows:
 - (a) Set the emergency/parking brake lever to the released position and attach a DO-NOT-SET-TO-ON tag to it.
 - (b) Remove the locking clips (9) from the turnbuckle (7) and discard them.
 - (c) Disconnect the turnbuckle (7) from the control cable (8).
 - (d) Remove the cotter pin (1) from the brake valve (2) sector to release the cable; discard the cotter pins.
 - (e) Remove the control cable from the sector of the brake valve.
- (2) To remove the emergency/parking brake cable from the emergency/parking brake handle to the turnbuckle, do as follows:
 - (a) Remove the bolts (4) and washers (5) from the plate (6) and the gasket (3).
 - (b) Remove the pressure seal.
 - (c) Get access to the maintenance panel 123BL.
 - (d) Remove the two cable guards from the control cables driving pulleys. Refer to Figure 401.
 - (e) Release the bolts (1) of the emergency/parking brake handle panel (4). Refer to Figure 402.
 - (f) Remove the emergency/parking brake handle panel from the console. Refer to Figure 402.
 - (g) For aircraft with cockpit map pouch, remove it from the console.
 - (h) Remove the screws (3) from panel 223SZ. Refer to Figure 402.
 - (i) Remove panel 223SZ ([AMM MPP 06-41-03/100](#)) from the console. Refer to Figure 402.
 - (j) Remove the bolt (7) that attaches the emergency/parking brake to the console structure.
 - (k) Remove the bolts (5) that attaches the emergency/parking brake base to the console.
 - (l) Remove the emergency/parking brake base (6) and the cable.

EFFECTIVITY: ALL

Emergency/Parking Brake Circuit Cables - Removal/Installation

Figure 401

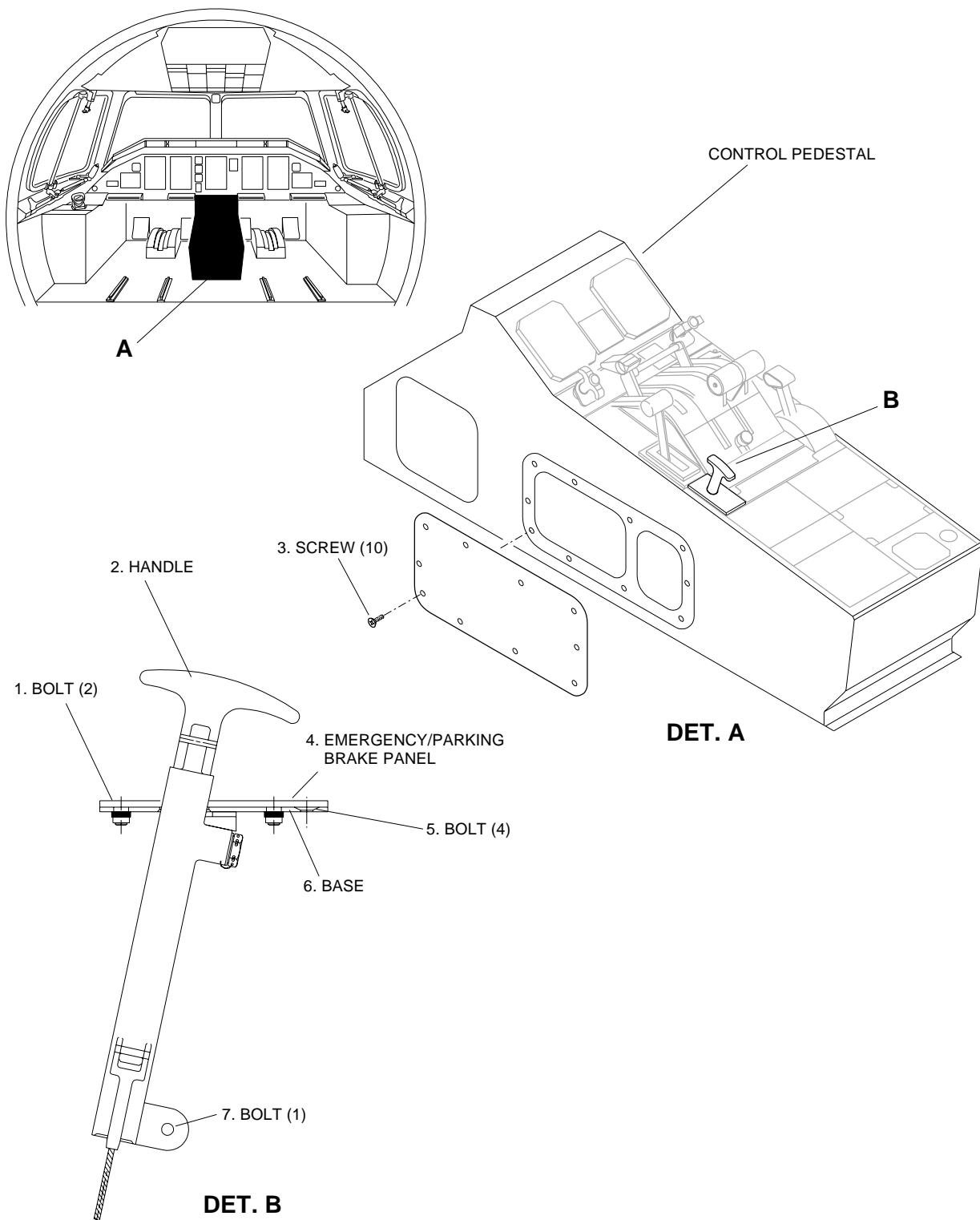


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EFFECTIVITY: ALL

Emergency/Parking Brake Handle - Removal/Installation

Figure 402



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TASK 32-44-11-400-801-A

EFFECTIVITY: ALL

3. EMERGENCY PARKING BRAKE - INSTALLATION

A. General

- (1) This task gives the procedure to install the emergency parking brake circuit cables and the handle.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM MPP 32-44-11/500	- ADJUSTMENT/TEST
AMM TASK 10-10-01-500-801-A/200	AIRCRAFT NORMAL PARKING
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 32-44-11-000-801-A/400	EMERGENCY/PARKING BRAKE - REMOVAL
IPC 32-44-00	EMERGENCY PARKING BRAKE SYSTEM

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
710		NLG Bay
123	123BL	Controls, rigging door

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Local available	Fluorescent Work Light - Explosion Proof - 60 W minimum	To remove the emergency/parking brake handle and the cable guards	1

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Locking clip	IPC 32-44-00	2
Cotter pin	IPC 32-44-00	1



H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose Landing Gear Bay, Cockpit and Maintenance Panel 123BL

I. Preparation

SUBTASK 841-003-A

- (1) Make sure that the aircraft is in the same configuration as it was at the end of the removal ([AMM TASK 32-44-11-000-801-A/400](#)) task.

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) To install the emergency/parking brake cable from the emergency/parking brake valve to the turnbuckle, do as follows:
 - (a) Install the control cable in the brake valve sector.
 - (b) Install a new cotter pin (1) in the brake valve (2) sector to attach the cable.
 - (c) Connect the turnbuckle (7) to the control cable (8).
 - (d) Do the adjustment and test of the emergency/parking brake ([AMM MPP 32-44-11/500](#)).
 - (e) Install new locking clips (9) on the turnbuckle (7).
- (2) To install the emergency/parking brake cable from the emergency/parking brake handle to the turnbuckle, do as follows:
 - (a) Put the emergency/parking brake base (6) and the cable in position.
 - (b) Install the two cable guards at the control cables driving pulleys. Refer to Figure 401.
 - (c) Install the bolts (5) that attach the emergency/parking brake base (6) to the console.
 - (d) Install the bolt (7) that attach the emergency/parking brake to the console structure.
 - (e) Install panel 223SZ ([AMM MPP 06-41-03/100](#)) to the console.
 - (f) Install the screws (3) in panel 223SZ.
 - (g) For aircraft with cockpit map pouch, install it to the console.
 - (h) Put the emergency/parking brake handle panel (4) in position on the console.
 - (i) Install the bolts (1) that attach the emergency/parking brake handle panel.
 - (j) Install the pressure seal.



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- (k) Install the bolts (4) and washers (5) in the plates (6) and the gasket (3).
- (l) Connect the turnbuckle (7) to the control cable. Refer to Figure 401.
- (m) Do the adjustment and test of the emergency/parking brake ([AMM MPP 32-44-11/500](#)).
- (n) Install new locking clips (9) in the turnbuckle. Refer to Figure 401.

K. Follow-on

SUBTASK 842-002-A

- (1) Remove the landing gear safety pins ([AMM TASK 32-00-01-910-801-A/200](#)).
- (2) Remove the chock from the landing gear wheels ([AMM TASK 10-10-01-500-801-A/200](#)).
- (3) Remove the DO-NOT-SET-TO-ON tag from the emergency/parking brake lever.