



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

STICK PUSHER ACTUATOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the Stick Pusher.
- 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).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
27-36-04-000-801-A	STICK PUSHER - REMOVAL	ALL
27-36-04-400-801-A	STICK PUSHER - INSTALLATION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 27-36-04-000-801-A

EFFECTIVITY: ALL

2. STICK PUSHER - REMOVAL

A. General

- (1) This task gives the procedures to remove the Stick Pusher.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 25-11-01-000-801-A/400	PILOT SEAT - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Area below the cockpit floor
221	221EF/GF	Cockpit LH upper side

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	Fuselage

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Do not do other tasks on the elevator system.
- (3) Remove the pilot seat ([AMM TASK 25-11-01-000-801-A/400](#)).
- (4) Remove the control rigging door 123BL and the floor panels 221(EF/GF) (AMM MPP 06-41-01/100).
- (5) On the Circuit Breaker Panel, open the SPS CHANNEL 1/2, SHAKER 1/2 and PUSHER CLUTCH circuit breakers and attach a DO-NOT-CLOSE tag to them.



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (6) On the right power control/distribution box, open the PUSHER MOTOR circuit breaker and attach a DO-NOT-TAG to it.

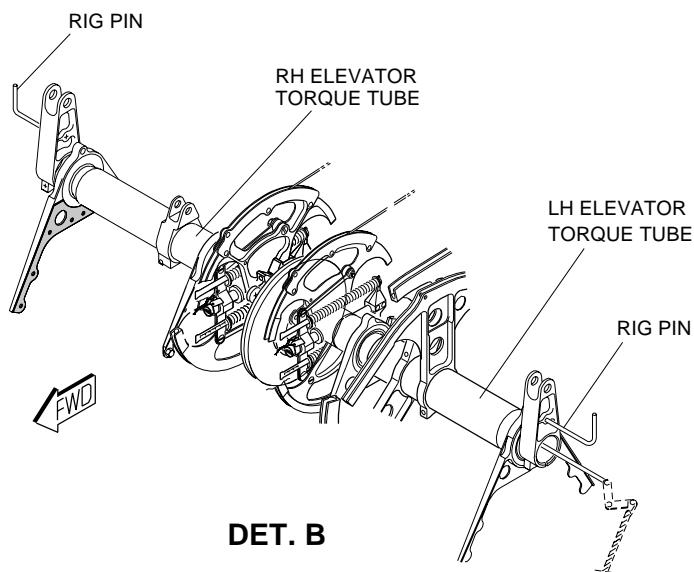
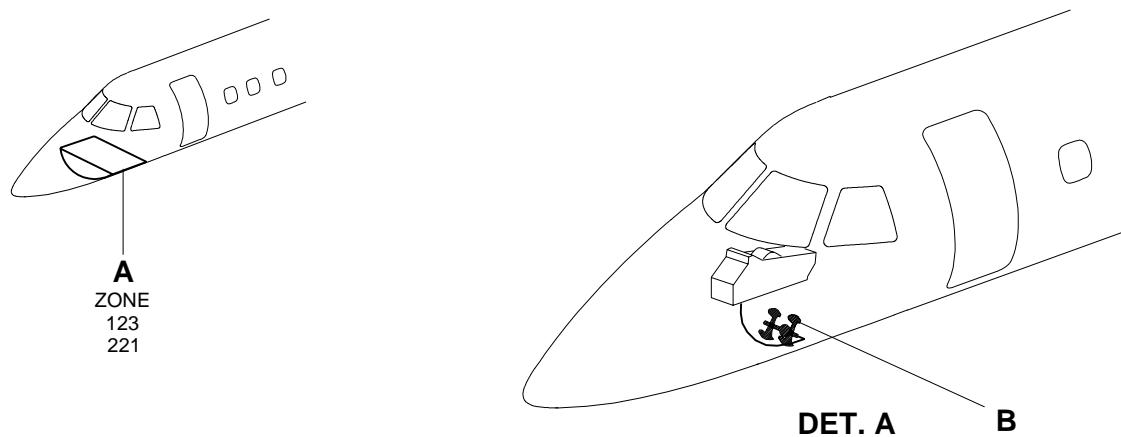
- (7) Install the rig pins on the left torque tube and the right torque tube. Refer to [Figure 401](#).

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

SUBTASK 020-002-A

- (1) Remove the nuts (6) with the washer (7) and cotter pin (8) to loosen the end cable of the stick pusher (1). Refer to [Figure 402](#).
- (2) Remove the cotter pin (10) and the cable guard (9) to loosen the cable of the stick pusher from the elevator torque tube (5). Refer to [Figure 402](#).
- (3) Disconnect the electrical connector (11). Refer to [Figure 402](#).
- (4) Remove the bolt (2) and the washer (3) to loosen the stick pusher (1) from the support (4). Refer to [Figure 402](#).
- (5) Remove the stick pusher (1). Refer to [Figure 402](#).

EFFECTIVITY: ALL
Rig Pin - Removal/Installation
Figure 401

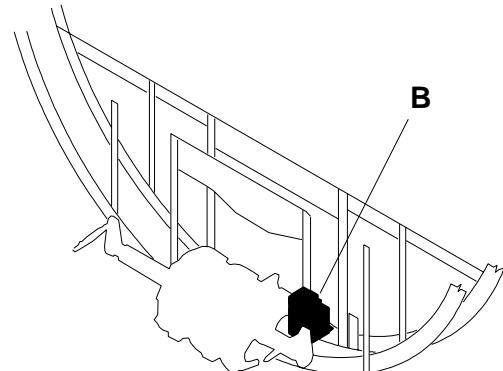
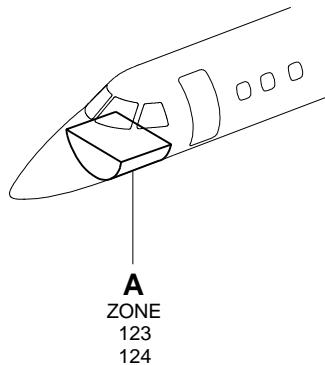


145AMM270649.MCE

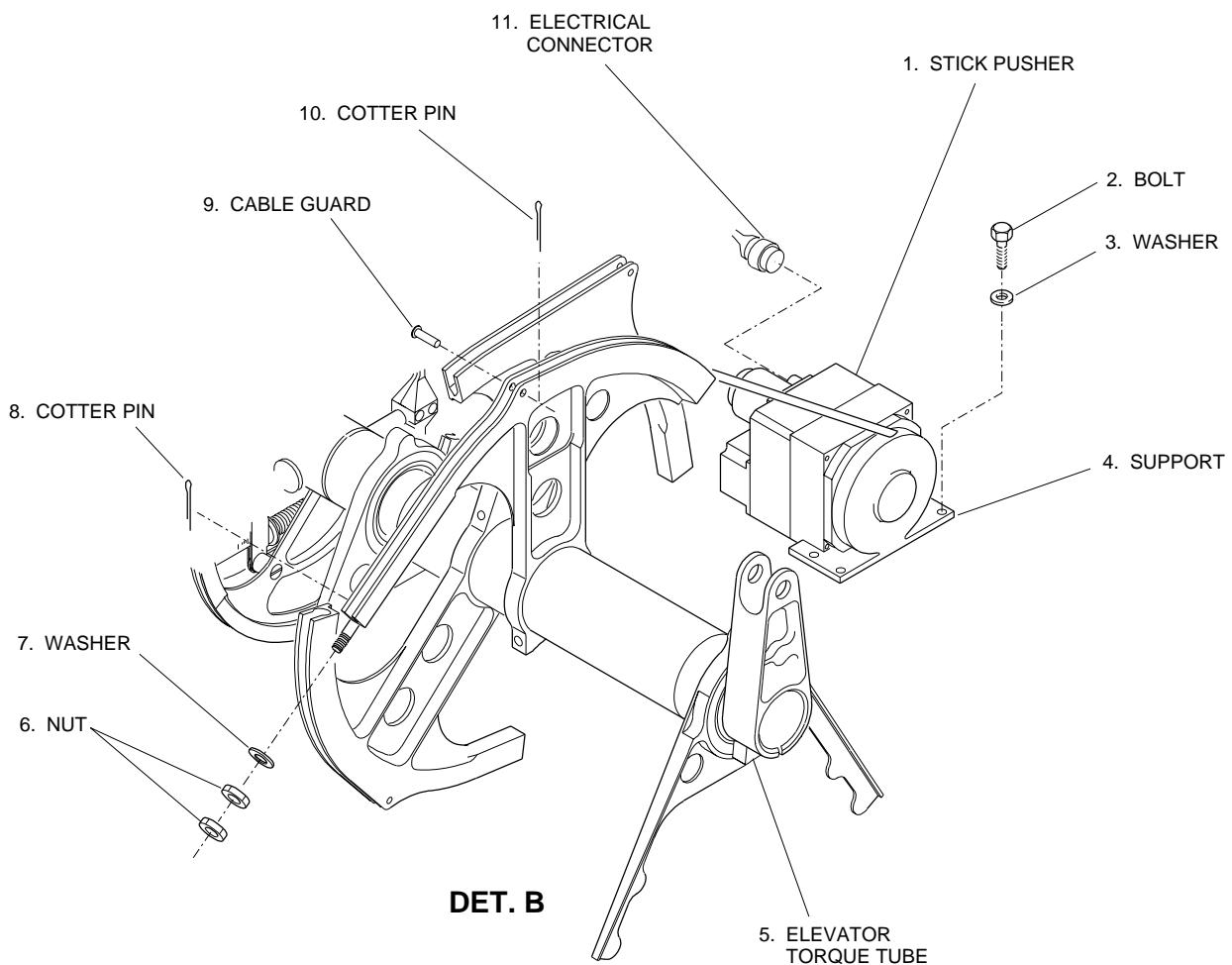
EFFECTIVITY: ALL

Stick Pusher - Removal/Installation

Figure 402



DET. A



145AMM270057.MCE A



AIRCRAFT MAINTENANCE MANUAL

TASK 27-36-04-400-801-A

EFFECTIVITY: ALL

3. STICK PUSHER - INSTALLATION

A. General

(1) This task gives the procedures to install the Stick Pusher.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 25-11-01-400-801-A/400	PILOT SEAT - INSTALLATION
AMM TASK 27-36-00-700-801-A/500	STALL PROTECTION SYSTEM - OPERATIONAL CHECK
AMM TASK 27-36-04-700-801-A/500	STICK PUSHER - ADJUSTMENT
AMM TASK 28-41-00-200-801-A/600	-
IPC 27-36-04	STICK PUSHER

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Area below the cockpit floor
221	221EF/GF	Cockpit LH upper side

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cotter pin	IPC 27-36-04	1/LRU

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Fuselage



I. Installation (Figure 402)

SUBTASK 420-002-A

- (1) Put the Stick Pusher (1) on the support (4). Use the bolt (2) and washer (3). Refer to (Figure 402).
- (2) Put the cable on the elevator torque tube (5). Refer to (Figure 402).
- (3) Install the cable guard (9) and the cotter pin (10). Refer to (Figure 402).
- (4) Install the washer (7) on the end cable. Refer to (Figure 402).
- (5) Connect the electrical connector (11). Refer to (Figure 402).
- (6) Install 01 (one) nut (6) on the end cable of the stick pusher. Refer to (Figure 402).
- (7) Adjust tension of the cable of the Stick Pusher (1). Refer to [AMM TASK 27-36-04-700-801-A/500](#).
- (8) Install the second nut (6) to lock the cable tensioned and safety it. Refer to (Figure 402).

J. Follow-on

SUBTASK 842-002-A

- (1) Remove the rig pins from the left and right torque tube. Refer to Figure 401.
- (2) On the Circuit Breaker Panel, close the SPS CHANNEL 1/2, SHAKER 1/2, and PUSHER CLUTCH circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (3) On the right power control/distribution box, close the PUSHER MOTOR circuit breaker and remove the DO-NOT-TAG from it.
- (4) Do the operational check of the Stall Protection System ([AMM TASK 27-36-00-700-801-A/500](#)).
- (5) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

NOTE: The inspection of fuel quantity indication harness is part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Aircraft Maintenance Program.

- (6) Install the control rigging door 123BL and the floor panels 221EF/GF (AMM MPP 06-41-01/100).
- (7) Install the pilot seat ([AMM TASK 25-11-01-400-801-A/400](#)).

