



## ROLL TRIM - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

### 1. General

- A. This section gives the procedures to remove and install the Roll Trim actuator.
- 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
27-14-00-000-801-A	ROLL TRIM ACTUATOR - REMOVAL	ALL
27-14-00-400-801-A	ROLL TRIM ACTUATOR - INSTALLATION	ALL



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TASK 27-14-00-000-801-A

EFFECTIVITY: ALL

2. ROLL TRIM ACTUATOR - REMOVAL

A. General

- (1) This task gives the procedures to remove the Roll Trim actuator.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Area below the cockpit floor - LH

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 058	Kit, Rig Pins	To lock the aileron in the neutral position	

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	Area below the cockpit floor

I. Preparation

*SUBTASK 841-002-A*

- (1) Do not do other tasks on the aileron system.
- (2) On the Circuit Breaker Panel, open the AILERON 1, AILERON 2, and ROLL TRIM circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (3) Remove cockpit underfloor access hatch 123BL (AMM MPP 06-41-01/100).
- (4) Install the rig pins on the aileron torque tube.



AIRCRAFT  
MAINTENANCE MANUAL

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

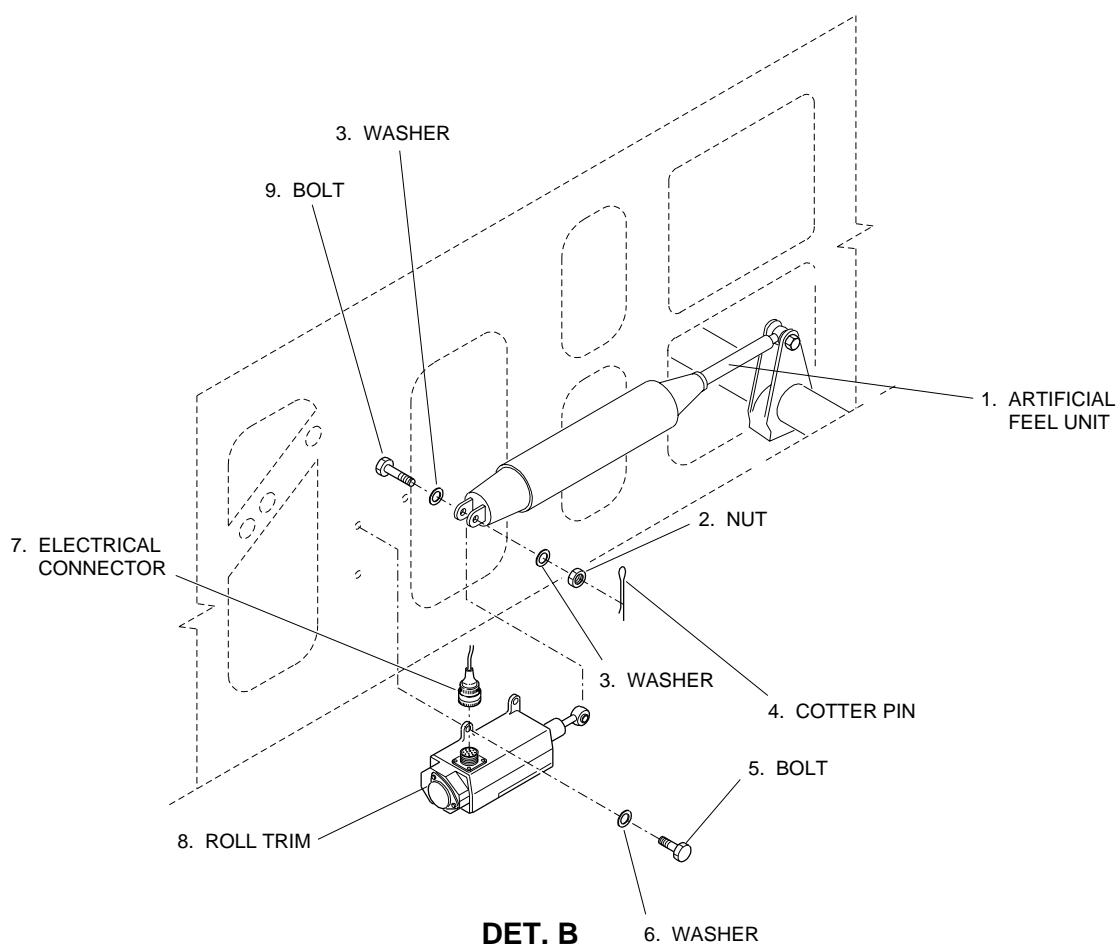
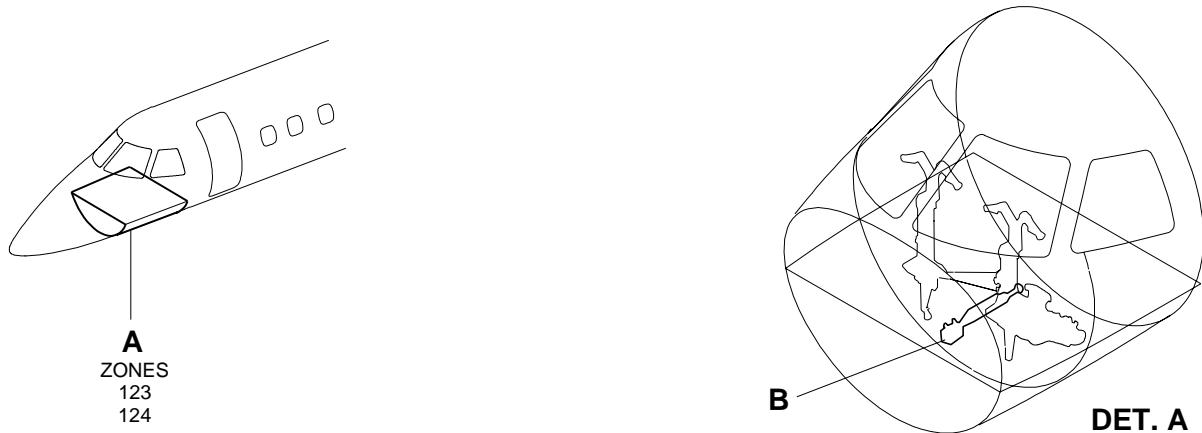
SUBTASK 020-002-A

- (1) Remove the cotter pin (4), nut (2), washers (3), and bolt (9) to disconnect the Roll Trim actuator (8) from the Artificial Feel Unit (1).
- (2) Remove the bolt (5) and washer (6) to release the Roll Trim actuator (8) from the structure.
- (3) Remove the Roll Trim actuator (8).

**EFFECTIVITY: ALL**

Roll Trim Actuator - Removal/Installation

Figure 401



145AMM270084.MCE C



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TASK 27-14-00-400-801-A

EFFECTIVITY: ALL

3. ROLL TRIM ACTUATOR - INSTALLATION

A. General

(1) This task gives the procedures to install the Roll Trim actuator.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
IPC 27-14-00	ROLL TRIM

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Area below the cockpit floor - LH

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 058	Kit, Rig Pins	To lock the aileron in the neutral position	
GSE 076	Yaw-and-Roll Trim-Actuator Rigging Device	To get the neutral position of the Yaw Trim Actuator	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cotter pin	IPC 27-14-00	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Area below the cockpit floor

I. Installation (Figure 401)

SUBTASK 420-002-A

NOTE: Make sure that the Roll Trim actuator is in the neutral position. Use the Yaw-Trim-Actuator Rigging Device (GSE 076) to do the inspection and adjustment of the neutral position of the Roll Trim actuator before you install it.



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

- (1) Install the Roll Trim actuator (8) on the structure. Use the bolts (5) and washers (6).
- (2) Connect the Roll Trim actuator (8) to the Artificial Feel Unit (1). Use the bolt (9), washers (3), and nut (2). Tighten the nut (2) and install the cotter pin (4).
- (3) Tighten the bolts (5).

J. Follow-on

SUBTASK 842-002-A

- (1) On the Circuit Breaker Panel, close the AILERON 1, AILERON 2, and ROLL TRIM circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (2) Remove the rig pins from the aileron torque tube.
- (3) Install cockpit underfloor access hatch 123BL (AMM MPP 06-41-01/100).