

## ARTIFICIAL FEEL UNIT - REMOVAL/INSTALLATION

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to remove and install the Artificial Feel Unit (AFU).
- 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
27-11-06-000-801-A	ARTIFICIAL FEEL UNIT - REMOVAL	ALL
27-11-06-400-801-A	ARTIFICIAL FEEL UNIT - INSTALLATION	ALL

TASK 27-11-06-000-801-A

EFFECTIVITY: ALL

## 2. ARTIFICIAL FEEL UNIT - REMOVAL

### A. General

(1) This task gives the procedures to remove the Artificial Feel Unit (AFU).

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM SDS 24-60-00/1</a>	

### C. Zones and Accesses

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

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
<a href="#">GSE 058</a>	Kit, Rig Pins	To lock the aileron system 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, PITCH TRIM 1, and ROLL TRIM circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (3) On the left power control/distribution box, open the PITCH TRIM 1 circuit breaker and attach a DO-NOT-CLOSE tag to it ([AMM SDS 24-60-00/1](#)).

- (4) On the right power control/distribution box, open the PITCH TRIM 2 circuit breaker and attach a DO-NOT-CLOSE tag to it ([AMM SDS 24-60-00/1](#)).
- (5) Remove the control rigging door 123BL (AMM MPP 06-41-01/100).
- (6) Set the actuator of the Roll Trim to the neutral position.
- (7) Install the rig pins to the aileron torque tube.

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

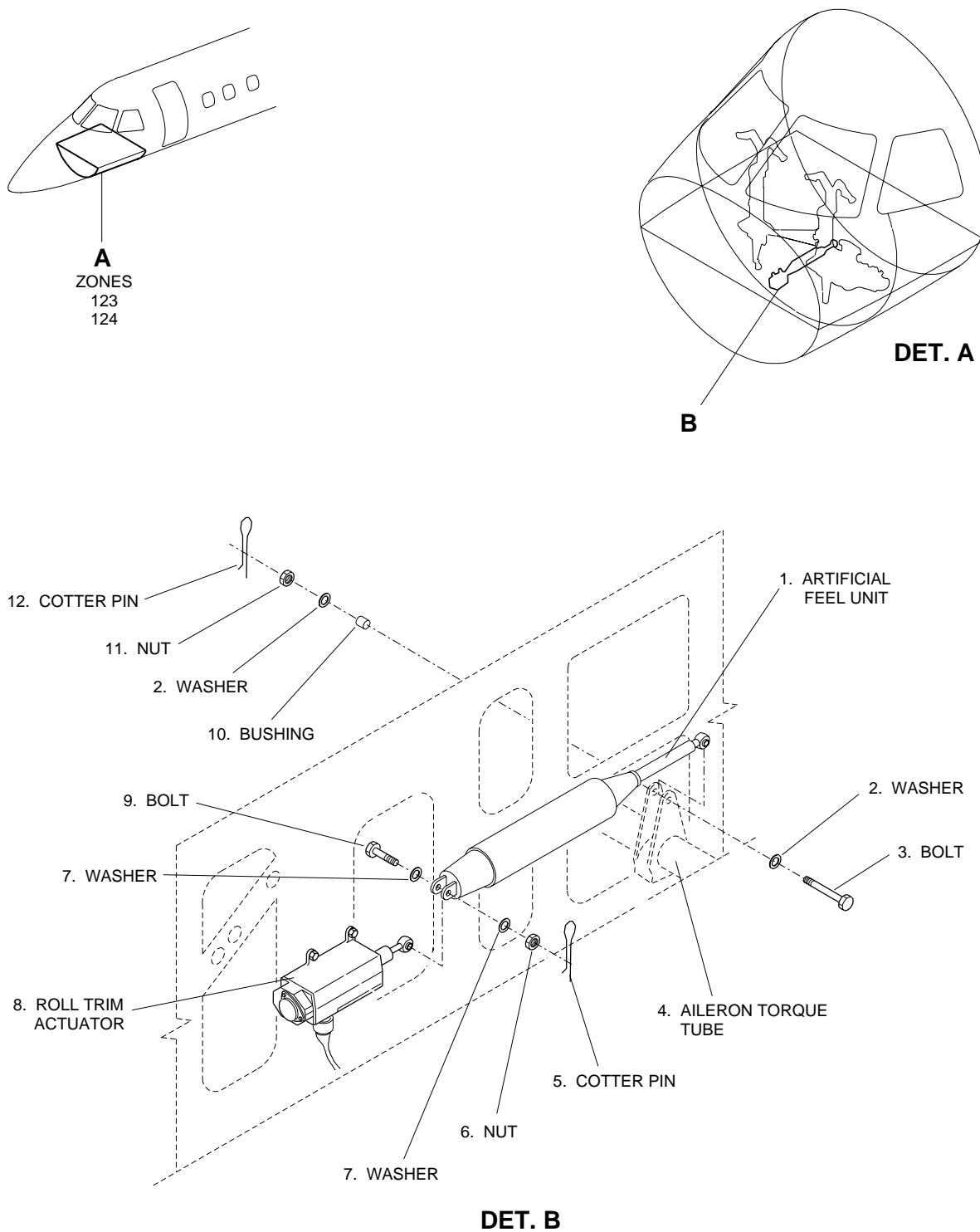
*SUBTASK 020-002-A*

- (1) Remove the cotter pin (5), nut (6), washers (7), and bolt (9) to disconnect the Artificial Feel Unit (1) from the actuator of the Roll Trim (8).
- (2) Remove the cotter pin (12), nut (11), bolt (3), washers (2), and bushing (10) to release the Artificial Feel Unit (8) from the aileron torque tube (4).
- (3) Remove the Artificial Feel Unit (1).

EFFECTIVITY: ALL

Artificial Feel Unit - Removal/Installation

Figure 401



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TASK 27-11-06-400-801-A  
EFFECTIVITY: ALL

### 3. ARTIFICIAL FEEL UNIT - INSTALLATION

#### A. General

(1) This task gives the procedures to install the Artificial Feel Unit (AFU).

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM SDS 24-60-00/1	
AMM TASK 27-11-06-700-801-A/500	ARTIFICIAL FEEL UNIT - ADJUSTMENT/TEST
AMM TASK 27-14-00-700-801-A/500	ROLL TRIM - FUNCTIONAL CHECK
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 system in the neutral position	

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS20995C15	Lockwire	As necessary

#### G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cotter pin	IPC 27-14-00	2/LRU

#### H. Persons Recommended

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

I. Installation (Figure 401)

*SUBTASK 420-002-A*

- (1) Connect the Artificial Feel Unit (1) to the actuator of the Roll Trim (8). Use the bolt (9), washers (7), and nut (6).
- (2) **NOTE:** When you connect the AFU to the aileron torque tube, do not compress the shaft of the AFU. If necessary, adjust the rod end of the AFU and lockwire it ( [AMM TASK 27-11-06-700-801-A/500](#)).

Connect the Artificial Feel Unit (1) to the aileron torque tube (4). Use the bolt (3), washers (2), bushing (10), and nut (11).

- (3) Tighten the nuts (6) and (11) and install the cotter pins (5) and (12).

J. Follow-on

*SUBTASK 842-002-A*

- (1) On the Circuit Breaker Panel, close the AILERON 1, AILERON 2, PITCH TRIM 1 and ROLL TRIM circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (2) On the left power control/distribution box, close the PITCH TRIM 1 circuit breaker and remove the DO-NOT-CLOSE tag from it ( [AMM SDS 24-60-00/1](#)).
- (3) On the right power control/distribution box, close the PITCH TRIM 2 circuit breaker and remove the DO-NOT-CLOSE tag from it ( [AMM SDS 24-60-00/1](#)).
- (4) Remove the rig pins from the aileron torque tube.
- (5) Close control rigging door 123BL (AMM MPP 06-41-01/100).
- (6) Do the functional check of the Roll Trim ( [AMM TASK 27-14-00-700-801-A/500](#)).