



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

RUDDER STOP MICROSWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: JAA-CERTIFIED AIRCRAFT (POST-MOD SB 145-27-0015 OR FACTORY-MODIFIED)

1. General

- A. This section gives the procedures to remove and install the stop microswitches of the stop actuators of the rudder control system.
- B. These procedures are applicable to the two stop microswitches.
- C. The stop microswitches are installed in the compartment behind the rear pressure bulkhead.
- D. 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
27-23-08-000-801-A	STOP MICROSWITCH - REMOVAL	JAA-CERTIFIED AIRCRAFT (POST-MOD SB 145-27-0015 OR FACTORY-MODIFIED)
27-23-08-400-801-A	STOP MICROSWITCH - INSTALLATION	JAA-CERTIFIED AIRCRAFT (POST-MOD SB 145-27-0015 OR FACTORY-MODIFIED)



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TASK 27-23-08-000-801-A

EFFECTIVITY: JAA-CERTIFIED AIRCRAFT (POST-MOD SB 145-27-0015 OR FACTORY-MODIFIED)

2. STOP MICROSWITCH - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the stop microswitch of the stop actuator of the rudder control system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
311	312AR	Compartment behind the rear pressure bulkhead

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	Compartment behind the rear pressure bulkhead

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) On the Circuit Breaker Panel, open the ELEC PUMP 1 and ELEC PUMP 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (3) Open access door 312AR (AMM MPP 06-42-00/100).



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

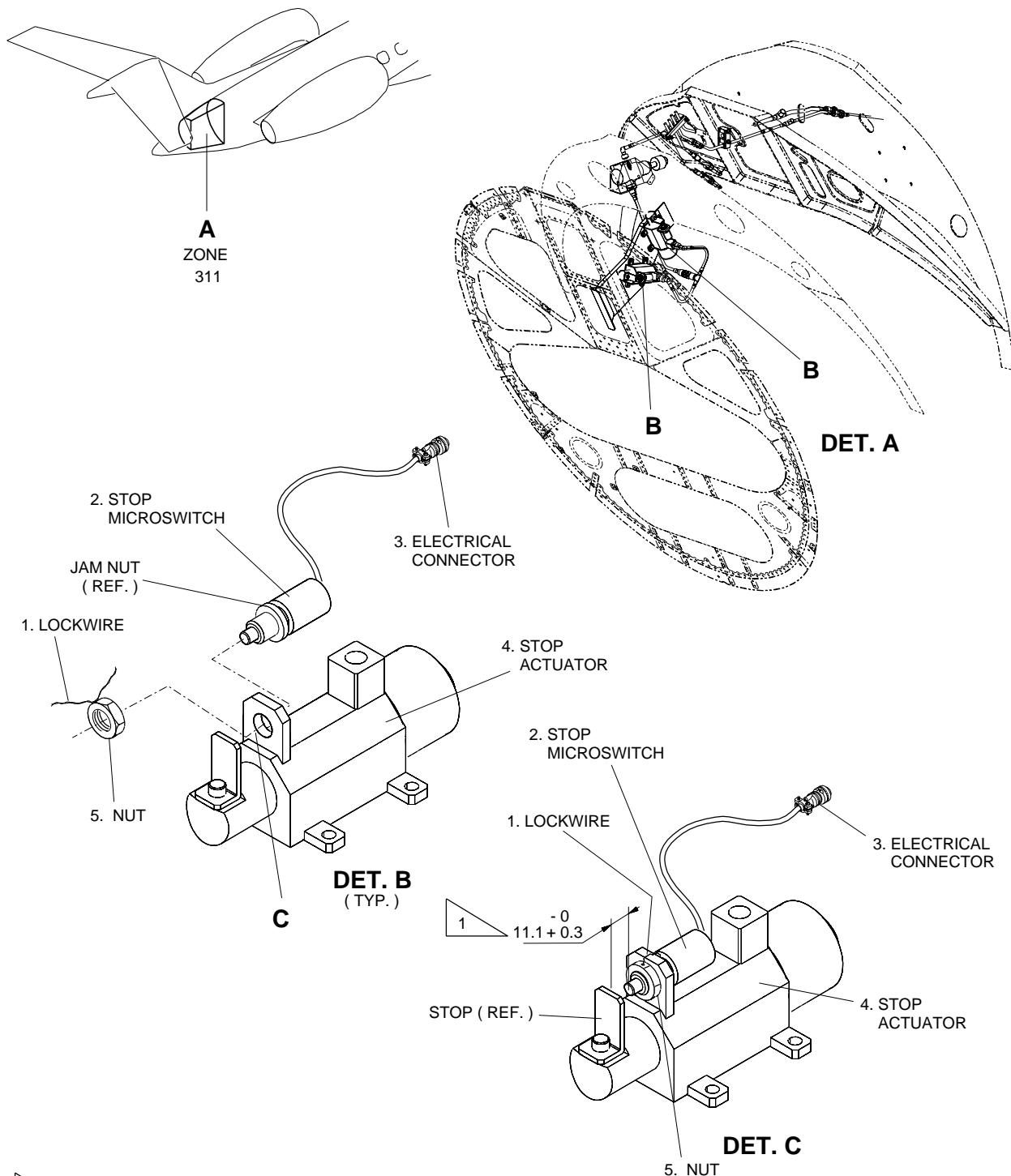
SUBTASK 020-002-A

- (1) Cut the lockwire (1).
- (2) Disconnect the electrical connector (3).
- (3) Remove the nut (5) to release the stop microswitch (2) from the stop actuator (4).
- (4) Remove the stop microswitch (2).

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Stop Microswitch - Removal/Installation

Figure 401



145AMM270352.MCE A



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TASK 27-23-08-400-801-A

EFFECTIVITY: JAA-CERTIFIED AIRCRAFT (POST-MOD SB 145-27-0015 OR FACTORY-MODIFIED)

3. STOP MICROSWITCH - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the stop microswitch of the stop actuator of the rudder control system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM TASK 27-21-00-700-801-A/500	RUDDER MOVABLE PRIMARY STOP MECHANISM - OPERATIONAL CHECK

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
311	312AR	Compartment behind the rear pressure bulkhead

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS20995C32	Lockwire	As nec- essary

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Compartment behind the rear pressure bulkhead

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the stop microswitch (2) on the stop actuator (4).

- (2) Adjust the distance between the end of the stop microswitch (2) and the stop at the stop actuator (4). For this, adjust the jam nut at the stop microswitch (2). Refer to DET. C.
- (3) Tighten the nut (5) to attach the stop microswitch (2) to the stop actuator (4).
- (4) Connect the electrical connector (3).

J. Follow-on

SUBTASK 842-002-A

- (1) On the Circuit Breaker Panel, close the ELEC PUMP 1 and ELEC PUMP 2 circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (2) Do an operational check of the Rudder Movable Stop Mechanism System ([AMM TASK 27-21-00-700-801-A/500](#)).
- (3) Safety the stop microswitch with the lockwire (1) shown in Figure 401.
- (4) Close access door 312AR (AMM MPP 06-42-00/100).