



AIRCRAFT
MAINTENANCE MANUAL

RUDDER POSITION MICROSWITCHES - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to adjust the rudder position microswitches.
- 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>
27-25-02-700-801-A	RUDDER POSITION MICROSWITCHES - ALL ADJUSTMENT/TEST	



AIRCRAFT MAINTENANCE MANUAL

TASK 27-25-02-700-801-A

EFFECTIVITY: ALL

2. RUDDER POSITION MICROSWITCHES - ADJUSTMENT/TEST

A. General

- (1) This task gives the procedures to do the adjustment and test of the Rudder Position Microswitches.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 29-10-00-860-801-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223HZ	Cockpit
224	224HZ	Cockpit

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 044	Head set, ramp	For Communication	
GSE 059	Protractor	To measure rudder deflection	
GSE 075	Rudder Electric Test Set	To adjust the Rudder Position Microswitches	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Screw, NASM(MS)24694-6 (or similar with #8-32UNC thread, 19/32 in. length)	To attach the base of GSE-059 to the aircraft	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS20995C32	Lockwire	AR
Commercially available	Double-face adhesive-tape	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit
1	Helps the other technician	Rudder

I. Preparation
SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Remove access panels 223HZ and 224HZ.
- (3) Install GSE 075. Refer to [Figure 501](#).
- (4) Install protractor GSE 059, with screw NASM(MS)24694-6 or with a double face adhesive tape, to fin/rudder I. Refer to [Figure 502](#).
- (5) On the Circuit Breaker Panel, open the N2 SIGNAL 1A, 2A, 1B, and 2B circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (6) Energize the aircraft with the External DC Power Supply ([AMM TASK 20-40-01-860-801-A/200](#)).
- (7) Pressurize hydraulic systems 1 and 2 ([AMM TASK 29-10-00-860-801-A/200](#)).
- (8) On the overhead panel, turn on rudder systems 1 and 2. Make sure that the RUDDER SHUTOFF SYS 1 and 2 pushbutton lights are off.
- (9) If necessary, cut the safety wires of the screws that adjust the rudder position microswitches.

J. Rudder Position Microswitches - Adjustment/Test
SUBTASK 720-002-A

WARNING: MAKE SURE THAT NO OTHER MAINTENANCE TASK IS DONE IN THE RUDDER, ELEVATOR, AND HORIZONTAL STABILIZER AREA.

- (1) Move the pilot's rudder right pedal until LEDs R1, R2, R3, R4, and R5 of GSE 075 come on.
 - Make sure that GSE 059 shows 5.5 degrees \pm 0.5 degrees.
 - (a) If necessary, set the rudder I to 5.5 degrees \pm 0.5 degrees and adjust the microswitch right stop until LEDs R1, R2, R3, R4, and R5 of GSE 075 come on.
 - (b) Safety the right stop of the rudder position microswitches. Refer to [Figure 503](#).
- (2) Move the pilot's rudder left pedal until LEDs L1, L2, L3, L4, and L5 of GSE 075 come on.
 - Make sure that GSE 059 shows 5.5 degrees \pm 0.5 degrees.
 - (a) If necessary, set the rudder I to 5.5 degrees \pm 0.5 degrees and adjust the microswitch left stop until LEDs L1, L2, L3, L4, and L5 of GSE 075 come on.



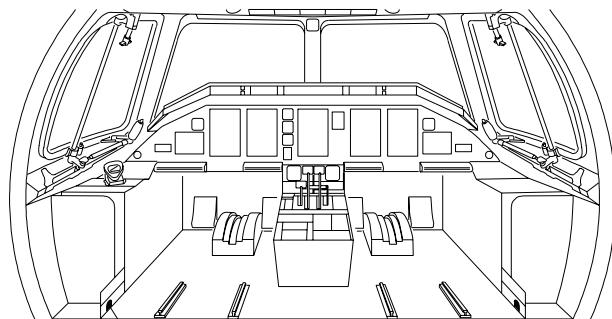
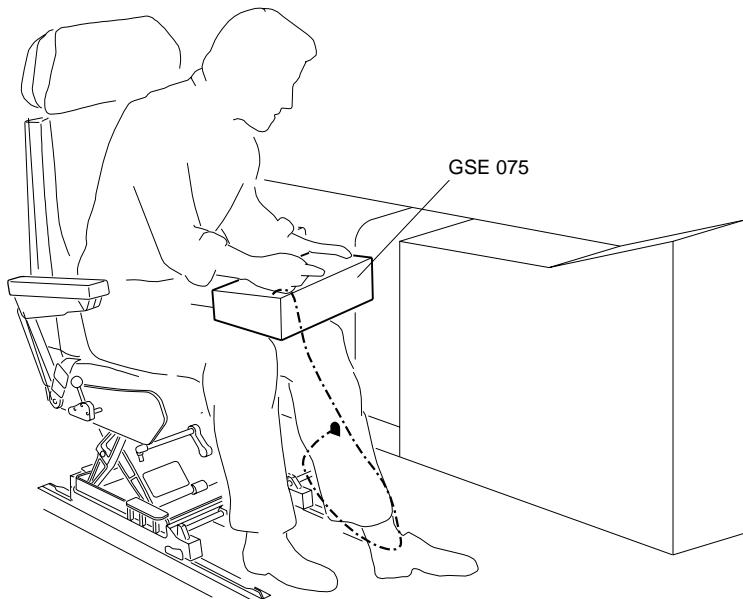
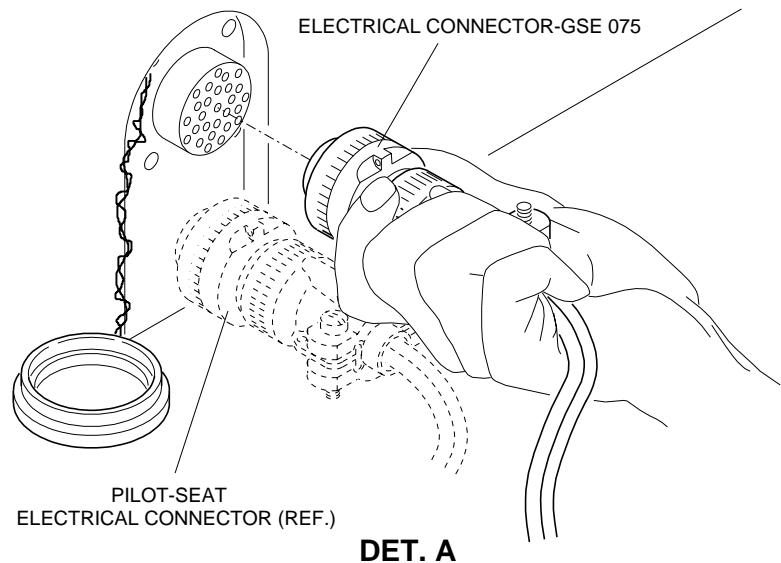
AIRCRAFT MAINTENANCE MANUAL

- (b) Safety the left stop of the rudder position microswitches. Refer to [Figure 503](#).

K. Follow-on

SUBTASK 842-002-A

- (1) Install access panels 223HZ and 224HZ.
- (2) On the Circuit Breaker Panel, close the N2 SIGNAL 1A, 2A, 1B, and 2B circuit breakers and remove a DO-NOT-CLOSE tag from them.
- (3) Release the pressure of the hydraulic systems 1 and 2 ([AMM TASK 29-10-00-860-801-A/200](#)).
- (4) On the overhead panel, turn off rudder systems 1 and 2. Make sure that the RUDDER SHUTOFF SYS 1 and 2 pushbutton lights are on.
- (5) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).
- (6) Remove GSE 075.
- (7) Install the protective cover of connector J1925.
- (8) Remove GSE 059.

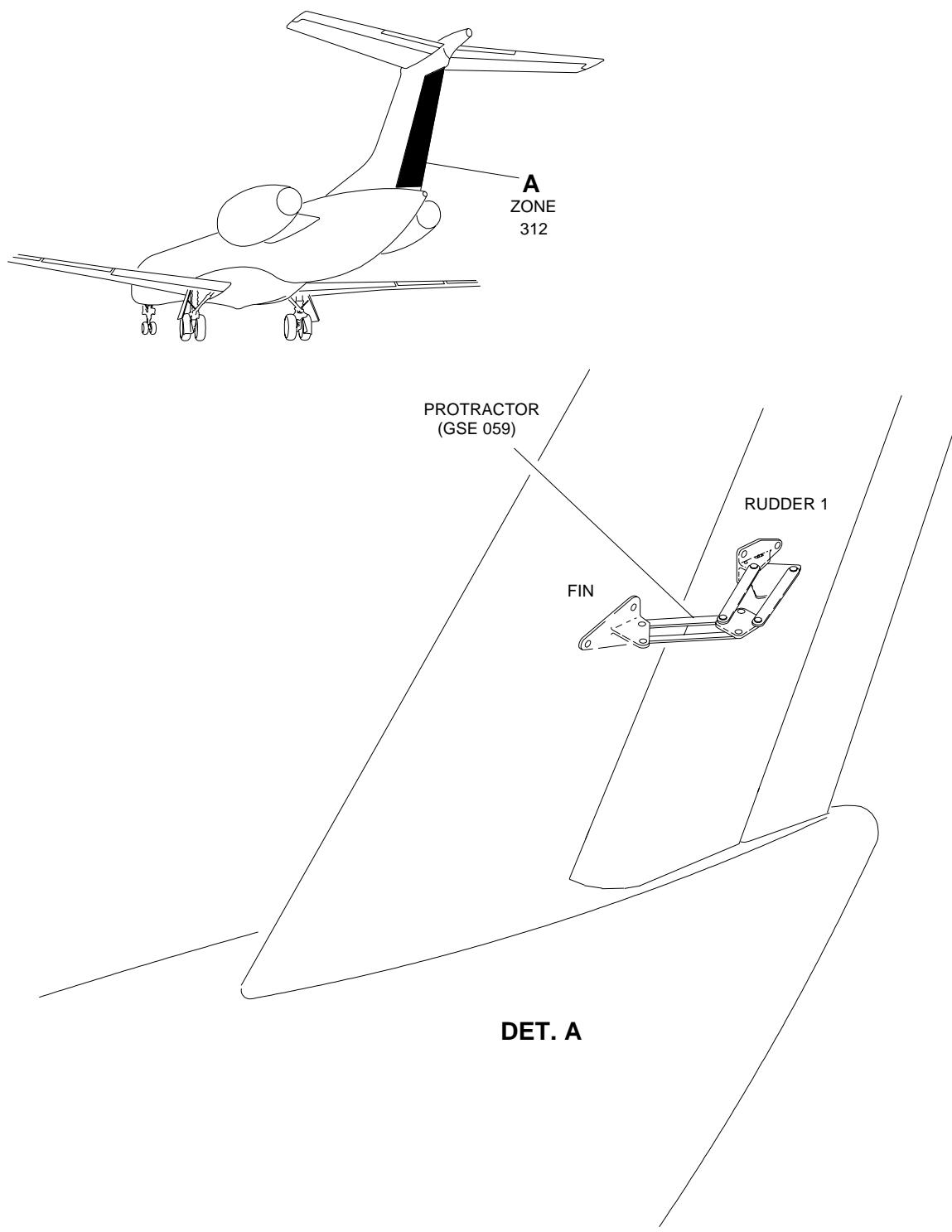
EFFECTIVITY: ALL
RUDDER POSITION MICROSWITCHES - ADJUSTMENT/TEST
Figure 501

A


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EFFECTIVITY: ALL

RUDDER POSITION MICROSWITCHES - ADJUSTMENT/TEST

Figure 502

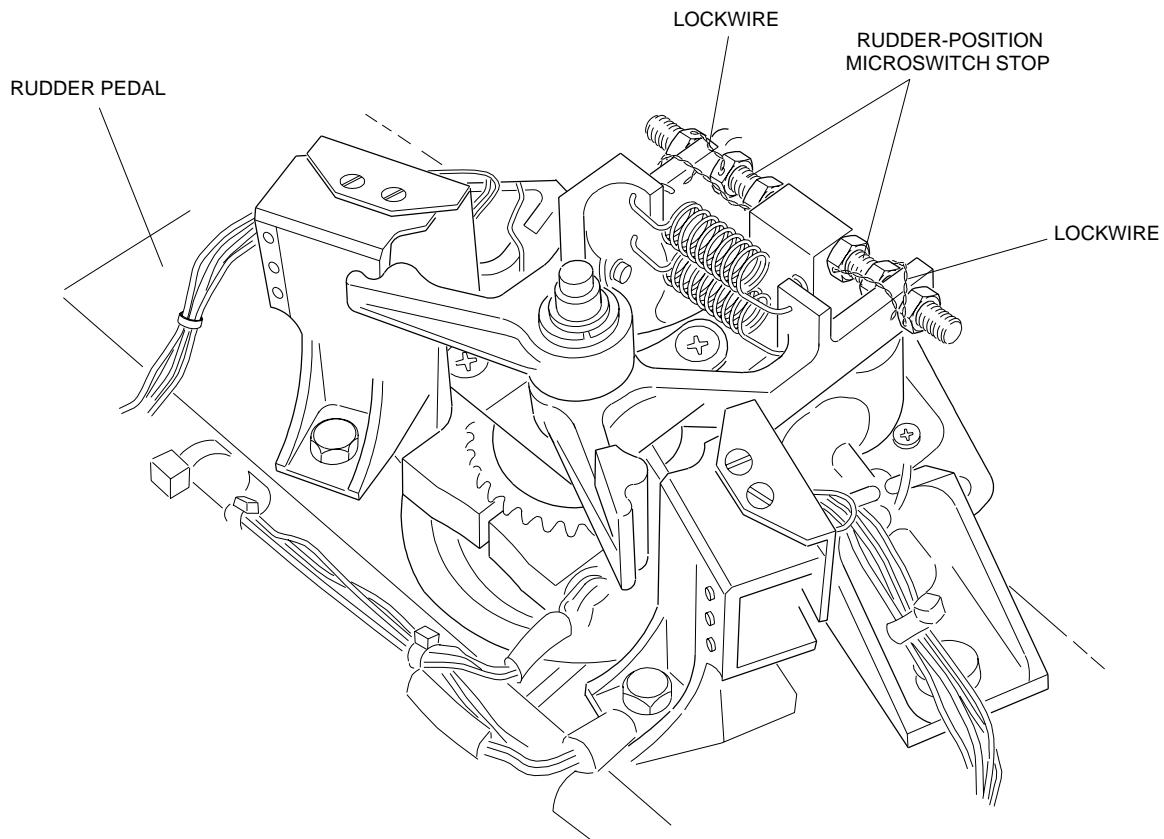
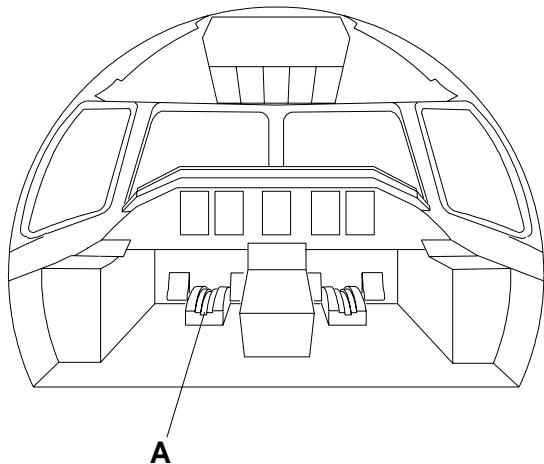


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EFFECTIVITY: ALL

RUDDER POSITION MICROSWITCHES - ADJUSTMENT/TEST

Figure 503



DET. A

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