



AIRCRAFT
MAINTENANCE MANUAL

RUDDER PEDAL POTENTIOMETER - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the adjustment/test of the Rudder Pedal Potentiometer.
- 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>
32-50-02-700-801-A	RUDDER PEDAL POTENTIOMETER - ADJUSTMENT/TEST	ALL



EMB145 - EMB135

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TASK 32-50-02-700-801-A

EFFECTIVITY: ALL

2. RUDDER PEDAL POTENTIOMETER - ADJUSTMENT/TEST

A. General

- (1) This task gives the procedures to do the adjustment/test of the Rudder Pedal Potentiometer.

B. References

REFERENCE	DESIGNATION
AMM TASK 25-11-01-000-801-A/400	PILOT SEAT - REMOVAL
AMM TASK 25-11-01-400-801-A/400	PILOT SEAT - INSTALLATION
AMM TASK 25-12-06-000-801-A/400	PEDAL ASSEMBLY LINING - REMOVAL
AMM TASK 25-12-06-400-801-A/400	PEDAL ASSEMBLY LINING - INSTALLATION
AMM TASK 32-50-00-700-803-A/500	NOSE WHEEL STEERING SYSTEM ACTUATION - OPERATIONAL CHECK

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223HZ	Cockpit, LH side

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 050	Digital multimeter	To measure the resistance	

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	Cockpit

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the STEER circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Remove the pilot seat ([AMM TASK 25-11-01-000-801-A/400](#)).



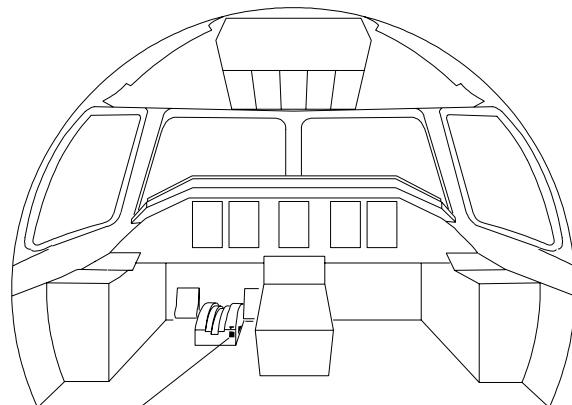
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- (3) Remove the pedal assembly shroud ([AMM TASK 25-12-06-000-801-A/400](#)).
- J. Rudder Pedal Potentiometer - Adjustment ([Figure 501](#))
SUBTASK 720-002-A
- (1) On the electronic control unit, disconnect electrical connector P7034.
 - (2) Measure the resistance between pins B and C and pins B and A at connector P7034. Write down the measured values. The (rBC - rBA) difference must be less than or equal to 30 ohms.
 - (3) If the difference is more than 30 Ohms, adjust the rudder pedal potentiometer R7000. For this, do the steps below:
 - (a) Partially loosen the adjusting screw and let the pedal potentiometer stand stay in a position where the resistance difference is less than or equal 30 Ohms.
 - (b) Tighten the adjusting screws.
 - (4) Connect electrical connector P7034 to the electronic control unit.
- K. Follow-on
SUBTASK 842-002-A
- (1) Install the pedal assembly shroud ([AMM TASK 25-12-06-400-801-A/400](#)).
 - (2) Install the pilot seat ([AMM TASK 25-11-01-400-801-A/400](#)).
 - (3) On the circuit breaker, close the STEER circuit breaker and remove the DO-NOT-CLOSE tag.
 - (4) Do the operational check of the nose wheel steering system actuation([AMM TASK 32-50-00-700-803-A/500](#)).

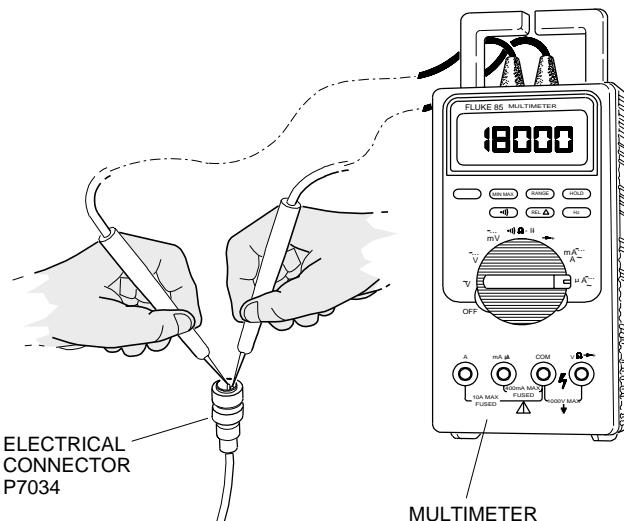
EFFECTIVITY: ALL

Rudder Pedal Potentiometer - Adjustment

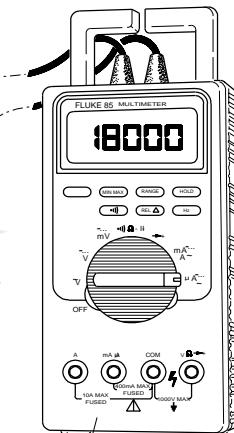
Figure 501



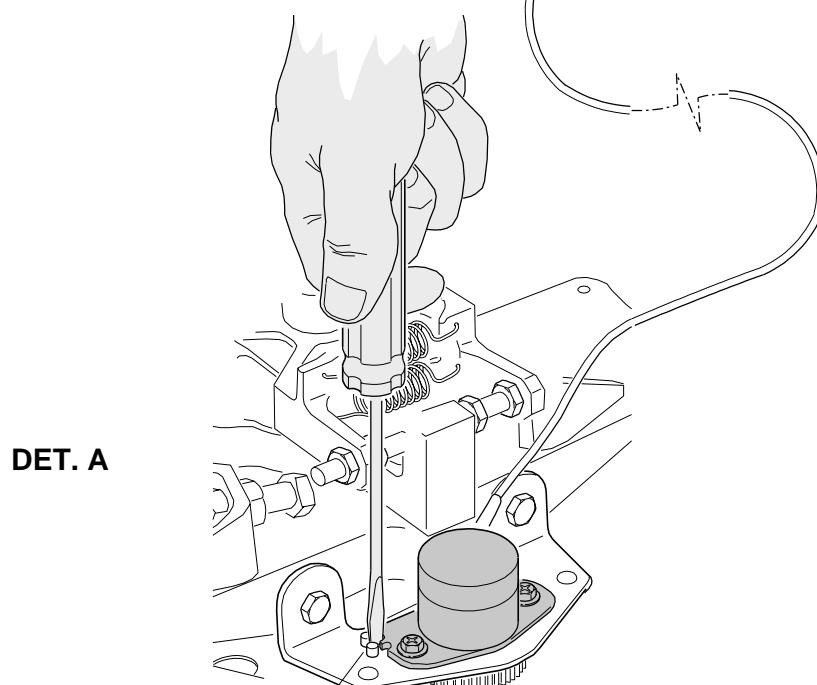
A
PEDAL ASSEMBLY
SHROUD



ELECTRICAL
CONNECTOR
P7034



MULTIMETER



LOOSEN THE ADJUSTING SCREW
AND DO THE ADJUSTING FITTING
WITH THE SCREWDRIVER

145AMM320411.MCE A