



AIRCRAFT MAINTENANCE MANUAL

STEERING HANDLE WHEEL - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the adjustment/test on the Steering Handle Wheel Potentiometer of the nose landing gear.
- 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
32-50-01-700-801-A	STEERING HANDLE WHEEL POTENTIOMETER - ADJUSTMENT	ALL



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 32-50-01-700-801-A

EFFECTIVITY: ALL

2. STEERING HANDLE WHEEL POTENTIOMETER - ADJUSTMENT

A. General

- (1) When you do a maintenance task on the Steering Handle Wheel Potentiometer, you must adjust it and make sure that it operates correctly.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM TASK 29-10-00-860-801-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS
AMM TASK 32-50-00-700-803-A/500	NOSE WHEEL STEERING SYSTEM ACTUATION - OPERATIONAL CHECK
WM 32-53-50	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223FLW	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) Make sure that the pressure in hydraulic system No. 1 and No. 2 are fully released ([AMM TASK 29-10-00-860-801-A/200](#)).
- (2) Make sure that the tow bar is disconnected from the nose landing gear.

- (3) On the circuit breaker panel, open the STEER circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (4) Open the panel access (9) under the panel 223FLW ([AMM MPP 06-41-03/100](#)) and disconnect the connector J7005 (10).

J. Steering Handle Wheel Potentiometer - Adjustment ([Figure 501](#))

SUBTASK 720-002-A

- (1) In the electrical connector (10), measure the resistance between pins A and B and pins B and C and write down the measured values. The ($r_{AB} - r_{BC}$) resistance difference must be equal to or less than 30 Ohms. Refer to WM 32-53-50.

- (2) If the difference is more than 30 Ohms, remove the screws (1) and washers (2) of the handle wheel.

NOTE: Lift the steering handle wheel (11) and turn it 180 degrees, then lower it in its attach position. This procedure makes easier to adjust the steering handle wheel potentiometer (3).

- (3) Remove the screws (5) and washers (6), and open the panel (7) of the steering handle wheel.

- (4) Partially loosen the adjusting bolts (8) and adjust the R7001 potentiometer (3) with a screwdriver until the resistance difference is less than 30 Ohms.

- (5) With the potentiometer adjusted, tighten the adjusting bolts (8).

K. Follow-on

SUBTASK 842-002-A

- (1) Close the panel (7) of the steering handle wheel.

- (2) Return the handle in its original position and install the washers (2) and tighten the screws (1).

- (3) Connect the electrical connector (10) and close the access panel (9) under the panel 223FLW. Refer to WM 32-53-50.

- (4) Close the panel 223FLW.

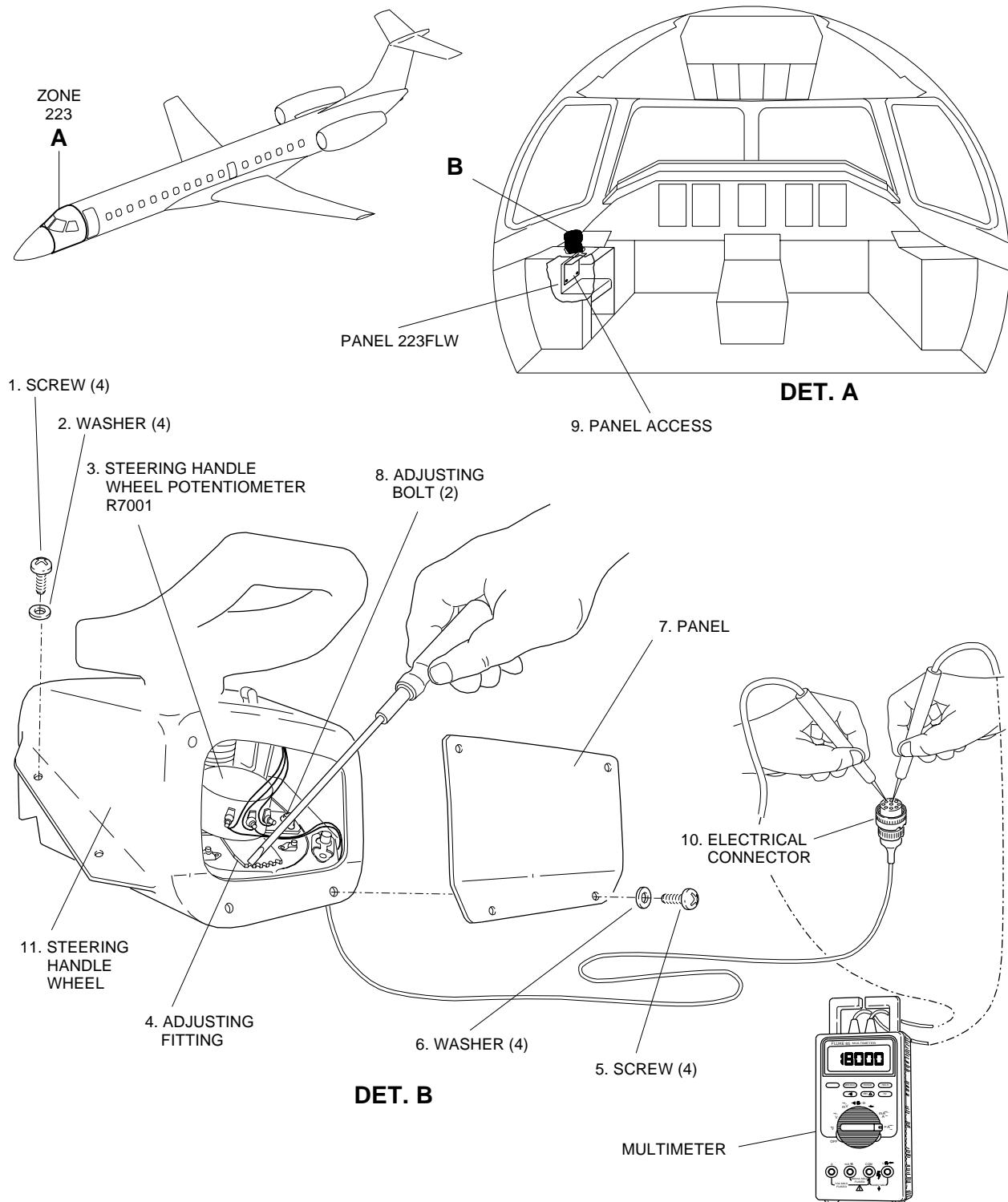
- (5) On the circuit breaker panel, close the STEER circuit breaker and remove the DO-NOT-CLOSE tag from it.

- (6) Do the operational check of the nose wheel steering system actuation ([AMM TASK 32-50-00-700-803-A/500](#)).

EFFECTIVITY: ALL

Steering Handle Wheel Potentiometer - Functional Check

Figure 501



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