



AIRCRAFT
MAINTENANCE MANUAL

LOAD POTENTIOMETER - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the load 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).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
32-50-05-000-801-A	LOAD POTENTIOMETER - REMOVAL	ALL
32-50-05-400-801-A	LOAD POTENTIOMETER - INSTALLATION	ALL



EMB145 - EMB135

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TASK 32-50-05-000-801-A

EFFECTIVITY: ALL

2. LOAD POTENTIOMETER - REMOVAL

A. General

- (1) This task gives the procedures to remove the load potentiometer.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM TASK 31-17-01-000-801-A/400	MAINTENANCE PANEL - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Controls, rigging door
223	223LZ	Cockpit, LH side

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Soldering iron (30 W)	To remove the solder and release the wires	

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) Open access door 223LZ (AMM MPP 06-42-00/100).
- (3) Remove maintenance panel 123BL ([AMM TASK 31-17-01-000-801-A/400](#)).



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

SUBTASK 020-002-A

- (1) Carefully cut and discard the heat-shrinkable sleeves from the wire terminals (5).

CAUTION: • IDENTIFY THE WIRE TERMINALS (5) TO PREVENT A POSSIBLE INVERSION DURING THE INSTALLATION.

- REMOVE THE SOLDER AND RELEASE THE WIRE TERMINALS (5) FROM THE SOLDERED LOAD-POTENTIOMETER CONTACTS.

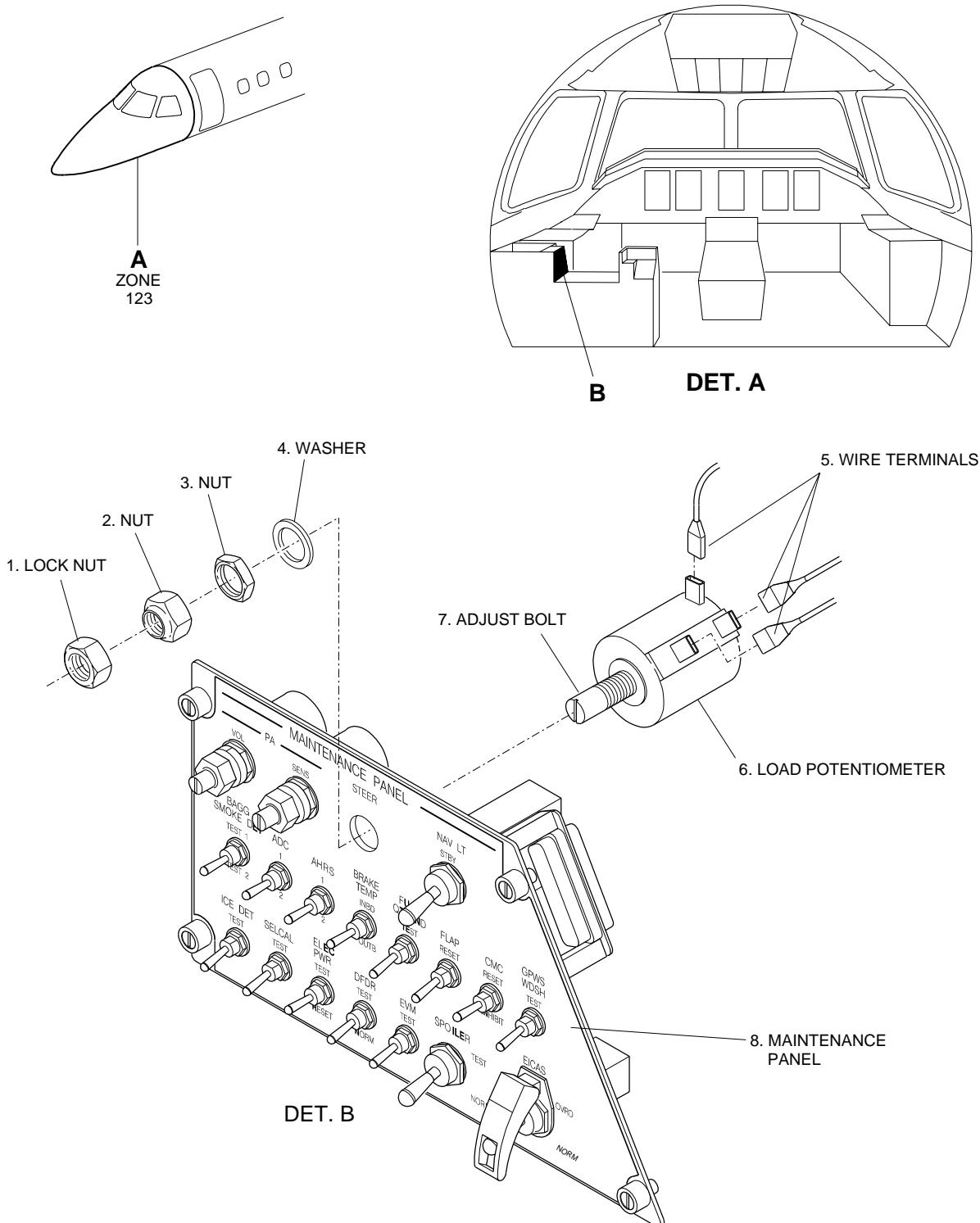
- (2) Hold the load potentiometer (6) and remove the lock nuts (1), (2), and (3) and washer (4).

- (3) Remove the load potentiometer (6) from maintenance panel 123BL (8).

EFFECTIVITY: ALL

Load Potentiometer - Removal/Installation

Figure 401



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TASK 32-50-05-400-801-A

EFFECTIVITY: ALL

3. LOAD POTENTIOMETER - INSTALLATION

A. General

(1) This task gives the procedures to install the load potentiometer.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM TASK 31-17-01-400-801-A/400	MAINTENANCE PANEL - INSTALLATION
AMM TASK 32-50-00-700-802-A/500	NOSE WHEEL STEERING SYSTEM - QUICK ADJUSTMENT
AMM TASK 32-50-00-700-803-A/500	NOSE WHEEL STEERING SYSTEM ACTUATION - OPERATIONAL CHECK
AMM TASK 32-50-05-700-801-A/500	LOAD POTENTIOMETER - ADJUSTMENT

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Controls rigging door
223	223LZ	Cockpit LH

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Soldering iron (30 W)	To solder the wires	
Commercially available	Heat gun	To install the heat-shrinkable sleeves	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
SB60PB40	Soldering wire	AR
Commercially available	Heat-shrinkable sleeves	AR

G. Expandable Parts

Not Applicable



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the load potentiometer (6) on the maintenance panel (8) in such a position that the locking pin goes through the guide hole.
- (2) Install the washer (4), nuts (3) and (2), and lock nut (1).
- (3) Put the heat-shrinkable sleeves on the wire terminals (5) and move them away from the end to be soldered.
- (4) Solder the wire terminals (5) to the load potentiometer (6) contacts.
- (5) Move the heat-shrinkable sleeves on the soldered connection and tighten the sleeves with a heat gun.

J. Follow-on

SUBTASK 842-002-A

- (1) Adjust the load potentiometer ([AMM TASK 32-50-05-700-801-A/500](#)).
- (2) On the circuit breaker panel, close the STEER circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (3) Adjust of the nose wheel steering system. Refer to [AMM TASK 32-50-00-700-802-A/500](#).
- (4) Do the operational check of the nose-wheel steering system for actuation ([AMM TASK 32-50-00-700-803-A/500](#)).
- (5) Install maintenance panel 123BL back ([AMM TASK 31-17-01-400-801-A/400](#)).
- (6) Close access door 223LZ (AMM MPP 06-42-00/100).