



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

**WINDSHIELD POWER CONTACTOR - REMOVAL/INSTALLATION**

EFFECTIVITY: PRE-MOD. S. B. 145-30-0033

1. General

- A. This section gives the procedures to remove and install the windshield power contactors.
- B. These procedures are applicable to windshield power contactor 1 and windshield power contactor 2.
- C. Windshield power contactor 1 is installed in a box at the support between frames 10 and 12, below the cockpit floor, on the LH side. Windshield power contactor 2 is installed in a box at the support between frames 10 and 12, below the cockpit floor, on the RH side.
- 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
30-42-03-000-801-A	WINDSHIELD POWER CONTACTOR - REMOVAL	PRE-MOD. S. B. 145-30-0033
30-42-03-400-801-A	WINDSHIELD POWER CONTACTOR - INSTALLATION	PRE-MOD. S. B. 145-30-0033



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TASK 30-42-03-000-801-A

EFFECTIVITY: PRE-MOD. S. B. 145-30-0033

2. WINDSHIELD POWER CONTACTOR - REMOVAL

## A. General

- (1) This procedure gives the instructions to remove the windshield power contactor.

## B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM TASK 25-11-01-000-801-A/400	PILOT SEAT - REMOVAL
AMM TASK 53-01-01-000-801-A/400	COCKPIT FLOOR PANELS - REMOVAL

## C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
221	221CF	Cockpit LH/Floor panel
222	222BF	Cockpit RH/Floor panel

## 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	Area below the cockpit floor, on the LH and/or RH side

## I. Preparation

## SUBTASK 841-002-A

- (1) Make sure that the GPU pushbutton, on the Overhead Panel, is set to OFF.
- (2) Put a DO-NOT-SET-TO-ON tag, on the GPU pushbutton.
- (3) Make sure that the BATT 1 and BATT 2 switches, on the Overhead Panel, are set to OFF.
- (4) Put a DO-NOT-SET-TO-ON tag, on the BATT 1 and BATT 2 switches.



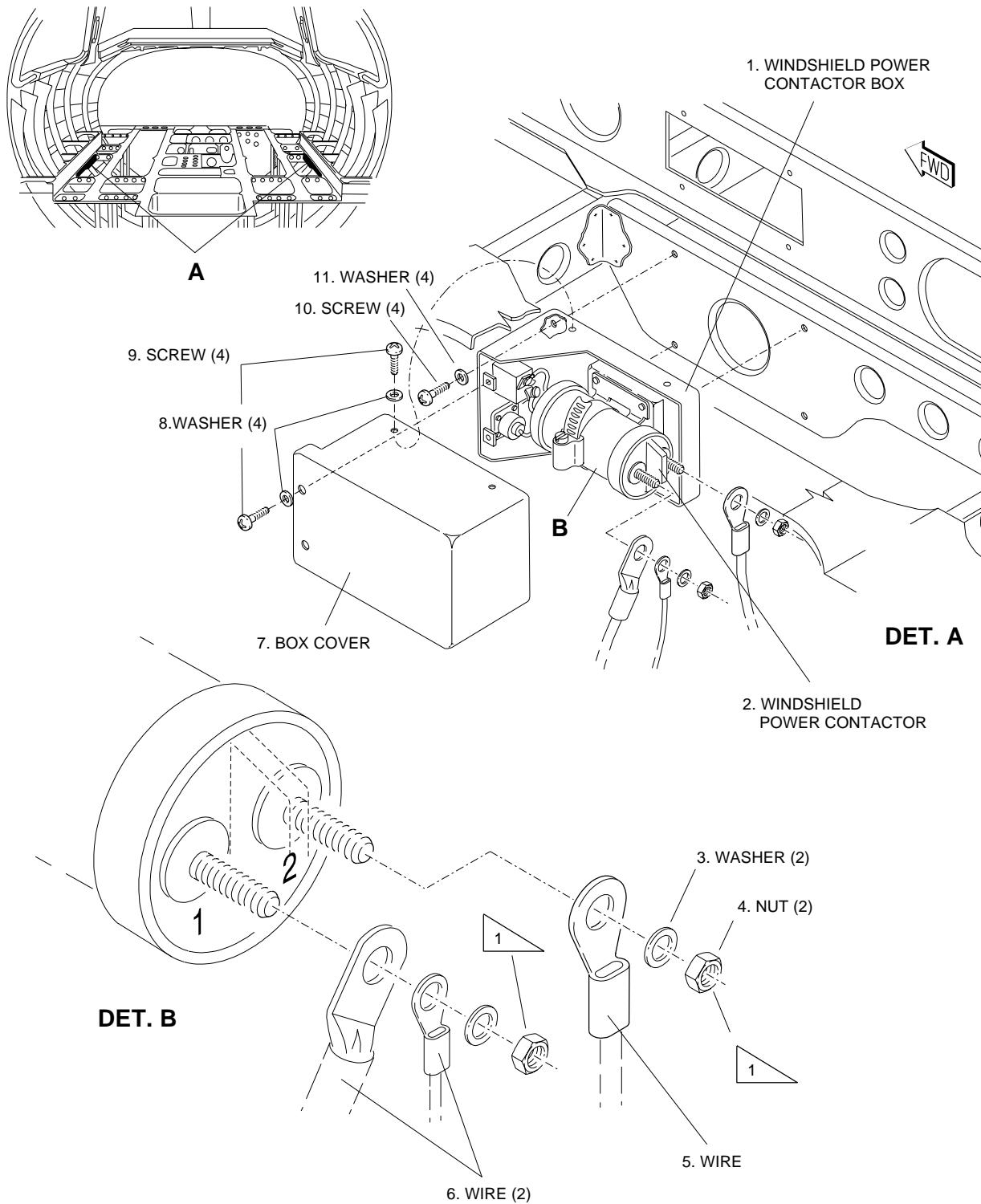
- (5) Set the BACKUP pushbutton, on the Overhead Panel, to OFF.
- (6) Put a DO-NOT-SET-TO-ON tag on the BACKUP pushbutton.
- (7) Remove the pilot and/or copilot seat ([AMM TASK 25-11-01-000-801-A/400](#)).
- (8) To get access to windshield power contactor 1, remove floor panel 221CF (AMM MPP 06-41-02/100) and ([AMM TASK 53-01-01-000-801-A/400](#)).
- (9) To get access to windshield power contactor 2, remove floor panel 222BF (AMM MPP 06-41-02/100) and ([AMM TASK 53-01-01-000-801-A/400](#)).

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

SUBTASK 020-002-A

- (1) Remove the four screws (9) and washers (8) that attach the box cover (7).
- (2) Remove the two nuts (4) and washers (3) that attach the two wires (6) and the wire (5).
- (3) Remove the four screws (10) and washers (11) that attach the windshield power contactor box (1).
- (4) Remove the windshield power contactor box (1) with the windshield power contactor (2).

**EFFECTIVITY: PRE-MOD. S.B. 145-30-0033**  
**Windshield Power Contactor - Removal/Installation**  
**Figure 401**



 **TORQUE: 2.6 TO 2.9 N.M (23.3 TO 26.0 Lb.IN)**

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TASK 30-42-03-400-801-A

EFFECTIVITY: PRE-MOD. S. B. 145-30-0033

3. WINDSHIELD POWER CONTACTOR - INSTALLATION

## A. General

- (1) This procedure gives the instructions to install the windshield power contactor.

## B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM TASK 25-11-01-400-801-A/400	PILOT SEAT - INSTALLATION
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 30-42-00-700-801-A/500	WINDSHIELD HEATING - OPERATIONAL CHECK
AMM TASK 53-01-01-400-801-A/400	COCKPIT FLOOR PANELS - INSTALLATION

## C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
221	221CF	Cockpit LH/Floor panel
222	222BF	Cockpit RH/Floor panel

## 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	Area below the cockpit floor, on the LH and/or RH side

## I. Installation (Figure 401)

## SUBTASK 420-002-A

- (1) Install the windshield power contactor box (1) with the windshield power contactor (2).
- (2) Install the four washers (11) and screws (10) that attach the windshield power contactor box (1).
- (3) Install the two washers (3) and nuts (4) that attach the two wires (6) and the wire (5).



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- (4) Install the four washers (8) and screws (9) that attach the box cover (7).

J. Follow-on

SUBTASK 842-002-A

- (1) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations (Section 6) of the Maintenance Review Board Report (MRB).

- (2) Close floor panels 221CF and 222BF (AMM MPP 06-41-02/100) and ( [AMM TASK 53-01-01-400-801-A/400](#)).
- (3) Install the pilot and/or copilot seat ([AMM TASK 25-11-01-400-801-A/400](#)).
- (4) Remove the DO-NOT-SET-TO-ON tag from the BACKUP pushbutton.
- (5) Set the BACKUP pushbutton to AUTO.
- (6) Remove the DO-NOT-SET-TO-ON tag from the GPU pushbutton.
- (7) Remove the DO-NOT-SET-TO-ON tag from the BATT 1 and BATT 2 switches.
- (8) Do the operational check of the windshield heating system ( [AMM TASK 30-42-00-700-801-A/500](#)).