



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

WINDSHIELD WIPER SYSTEM - ADJUSTMENT/TEST

EFFECTIVITY: AIRCRAFT WITH WINDSHIELD WIPER SYSTEM

1. General

- A. This section gives the procedures to do the operational test of the windshield wiper system.
- 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
30-41-00-700-801-A ♦	WINDSHIELD WIPER SYSTEM - OPERATIONAL TEST	AIRCRAFT WITH WINDSHIELD WIPER SYSTEM



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AIRCRAFT
MAINTENANCE MANUAL

TASK 30-41-00-700-801-A

EFFECTIVITY: AIRCRAFT WITH WINDSHIELD WIPER SYSTEM

2. WINDSHIELD WIPER SYSTEM - OPERATIONAL TEST

A. General

- (1) The function of this test is to make sure that the windshield wiper system operates correctly.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 30-41-03-700-801-A/500	WINDSHIELD WIPER-ARM ASSEMBLY PRESSURE - ADJUSTMENT

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223		Cockpit
224		Cockpit

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	Cockpit
1	Does the task	Forward fuselage

I. Preparation

SUBTASK 841-004-A

- (1) Before you do this test, do the Arm/Blade Assembly Pressure Adjustment ([AMM TASK 30-41-03-700-801-A/500](#)) procedure.
- (2) Energize the aircraft with the External DC-Power Supply ([AMM TASK 20-40-01-860-801-A/200](#)).

J. Operationally Check Windshield Wiper ([Figure 501](#))

SUBTASK 710-004-A

NOTE: When HI or LOW is set, wait until the system becomes stable to check the number of strokes per minute or cycles.

- (1) Do the check as follows:

CAUTION: BEFORE YOU DO THE OPERATIONAL TEST, MAKE THE WINDSHIELD SURFACE WET WITH WATER, AND KEEP IT WET DURING ALL THE TEST.

- (a) Set the WINDSHIELD WIPER 1 switch, on the overhead panel, to TIMER.

Result:

- 1 The left windshield wiper operates for one cycle after a stopped-eight-second time delay.

- (b) Set the WINDSHIELD WIPER 1 switch to OFF.

Result:

- 1 The left windshield wiper stops on the windshield mounting bracket.

- (c) Set the WINDSHIELD WIPER 1 switch to LOW.

Result:

- 1 The left windshield wiper operates at 80 ± 10 strokes per minute.

- (d) Set the WINDSHIELD WIPER 1 switch to HI.

Result:

- 1 The left windshield wiper operates at 140 ± 14 strokes per minute.

NOTE: The speed changes from low to high while the movement does not stop on the glass.

- (e) Set the WINDSHIELD WIPER 1 switch to OFF.

Result:

- 1 The left windshield wiper stops on the windshield mounting bracket.

- (f) Set the WINDSHIELD WIPER 2 switch, on the overhead panel, to TIMER.

Result:

- 1 The right windshield wiper operates for one cycle after a stopped eight-second time delay.

- (g) Set the WINDSHIELD WIPER 2 switch to OFF.

Result:

- 1 The right windshield wiper stops on the windshield mounting bracket.

- (h) Set the WINDSHIELD WIPER 2 switch to LOW.

Result:

- 1 The right windshield wiper operates at 80 ± 10 strokes per minute.

- (i) Set the WINDSHIELD WIPER 2 switch to HI.

Result:

- 1 The right windshield wiper operates at 140 ± 14 strokes per minute.

NOTE: The speed changes from low to high while the movement does not stop on the glass.

- (j) Set the WINDSHIELD WIPER 2 switch to OFF.

Result:

- 1 The right windshield wiper stops at the windshield mounting bracket.

- (k) Set the WINDSHIELD WIPER 1 and 2 switches to HI.

Result:

- 1 The left and right windshield wipers operate after ± 8 cycles in a synchronized movement.

- (l) Set the WINDSHIELD WIPER 1 and 2 switches to LOW.

Result:

- 1 The left and right windshield wipers operate after ± 8 cycles in a synchronized movement.

- (m) Set the WINDSHIELD WIPER 1 and 2 switches to TIMER.

Result:

- 1 The left and right windshield wipers operate after ± 8 cycles in a synchronized movement.

- (n) Set the WINDSHIELD WIPER 1 and 2 switches to OFF.

K. Follow-on

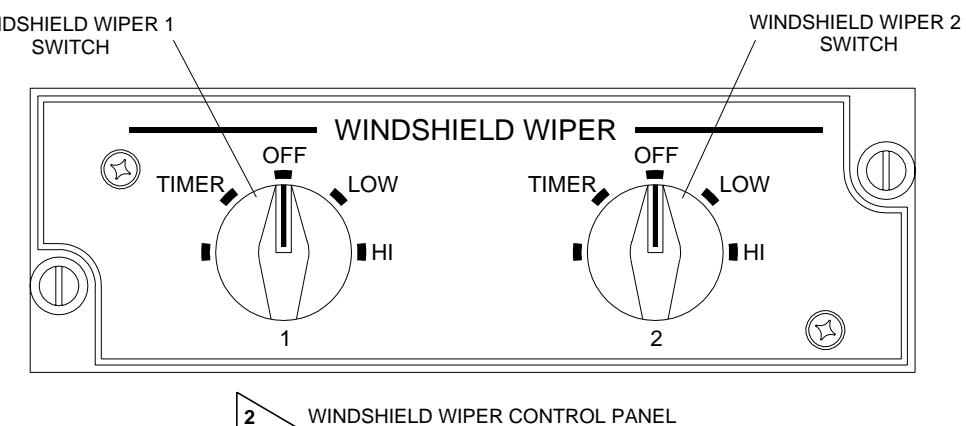
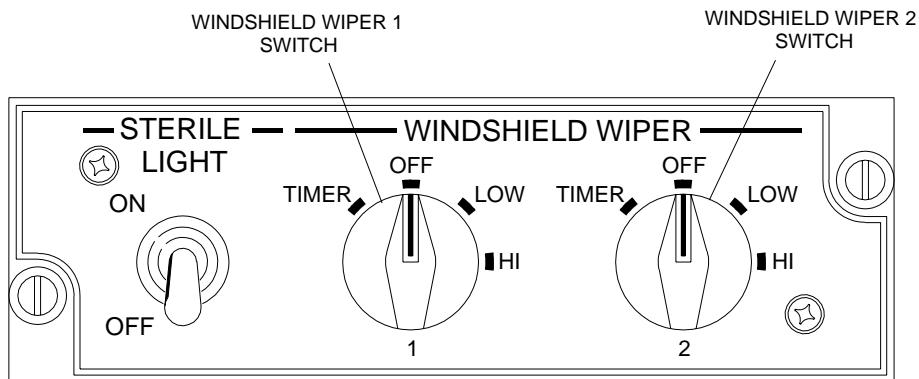
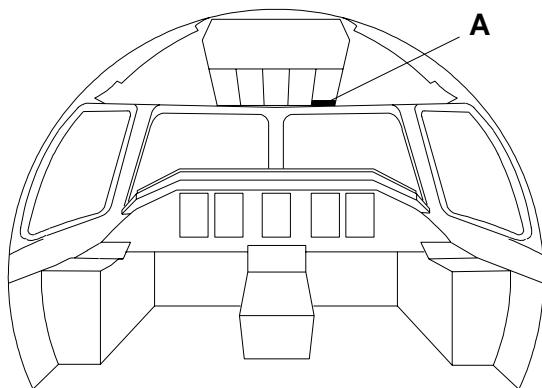
SUBTASK 842-004-A

- (1) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).

EFFECTIVITY: AIRCRAFT WITH WINDSHIELD WIPER SYSTEM

Windshield Wiper System - Operational Test

Figure 501


DET. A
1 WITH THE PUSHBUTTON-LIGHTING TEST SWITCH

2 WITHOUT THE PUSHBUTTON-LIGHTING TEST SWITCH

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