

CHAPTER

30

**ICE AND RAIN
PROTECTION**

AKS



737-600/700/800/900
TASK CARDS

CHAPTER 30
ICE AND RAIN PROTECTION

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A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

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D633A109-AKS

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AIRLINE CARD NO		TITLE AUTOMATIC AIR DATA SENSOR HEAT			BOEING CARD NO. 30-010-00-01
DATE	TASK OPERATIONAL				RELATED CARD
TAIL NUMBER	WORK AREA CREW CABIN	VERSION 1.1	THRESHOLD 11000 FH	REPEAT 11000 FH	APPLICABILITY
STATION	SKILL AIRPL				AIRPLANE ALL ENGINE ALL NOTE
		ACCESS			ZONE 210

Operationally check automatic activation of the Air Data Sensor heating for system A and B, if installed.

NOTE: The AMM task provides a standard and an alternate procedure. The alternate method does not require engines running, a breakout box is used in place of the Display Electronics Unit 1.

AIRPLANE NOTE: Applicable to airplanes with automatic Air Data Sensor heating installed. Airplanes Line Number 3424 and on, and airplanes incorporating SB 737-30A1063.

A. References

Reference	Title
AMM 24-22-00-860-813	Supply External Power (P/B 201)
AMM 24-22-00-860-814	Remove External Power (P/B 201)
AMM 31-62-21-000-801	Display Electronic Unit Removal (P/B 401)
AMM 31-62-21-400-801	Display Electronic Unit Installation (P/B 401)
AMM 71-00-00-700-819-F00	Stop the Engine Procedure (Usual Engine Stop) (P/B 201)
AMM 71-00-00-800-807-F00	Start the Engine Procedure (Selection) (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-1930	Box - Breakout, ARINC 600 Part #: A34016-XX Supplier: 81205

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DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 30-010-00-01	
TASK 30-31-00-750-801 1. AUTO Air Data Sensor heating - Operational Test Figure 1 A. Prepare for the Operational Test SUBTASK 30-31-00-860-015 (1) Make sure the PROBE HEAT A and B switches are set to the AUTO position. (2) Supply electrical power to the airplane. To supply power, do this task: Supply External Power, AMM TASK 24-22-00-860-813. SUBTASK 30-31-00-010-001 (3) Make sure there are no protective covers on the air data sensors. B. AUTO Air Data Sensor heating Operational Test SUBTASK 30-31-00-750-001 <u>WARNING:</u> KEEP PERSONNEL, AND EQUIPMENT AWAY FROM THE PITOT PROBES, TOTAL AIR TEMPERATURE PROBE, AND ANGLE-OF-ATTACK VANE. THESE COMPONENTS WILL BECOME VERY HOT. THEY CAN CAUSE INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT. (1) Do this check of the following lights on the window and pitot heat module: (a) Make sure the CAPT PITOT, L ELEV PITOT, L ALPHA VANE, TEMP PROBE, F/O PITOT, R ELEV PITOT, R ALPHA VANE, and AUX PITOT lights on the window and pitot heat module go on. (2) Test the AUTO position of the PROBE HEAT A and B switches. <u>NOTE:</u> Only one engine should be operating while performing this test of the AUTO position of the PROBE HEAT switches. This is done to test the full health of the system. (a) Do this task for engine 1: Start the Engine Procedure (Selection), AMM TASK 71-00-00-800-807-F00 (b) With the engine running, check the following lights on the window and pitot heat module: 1) Make sure the CAPT PITOT, L ELEV PITOT, L ALPHA VANE, TEMP PROBE, F/O PITOT, R ELEV PITOT, R ALPHA VANE, and AUX PITOT lights on the window and pitot heat module go off. (c) Do this task for engine 1: Stop the Engine Procedure (Usual Engine Stop), AMM TASK 71-00-00-700-819-F00 1) Make sure the CAPT PITOT, L ELEV PITOT, L ALPHA VANE, TEMP PROBE, F/O PITOT, R ELEV PITOT, R ALPHA VANE, and AUX PITOT lights on the window and pitot heat module go on. (d) Do this task for engine 2: Start the Engine Procedure (Selection), AMM TASK 71-00-00-800-807-F00 (e) With the engine running, check the following lights on the window and pitot heat module:				MECH	INSP
EFFECTIVITY AKS ALL		SOURCE MRB	AUTOMATIC AIR DATA SENSOR HEAT D633A109-AKS 30-010-00-01		

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 30-010-00-01	
1) Make sure the CAPT PITOT, L ELEV PITOT, L ALPHA VANE, TEMP PROBE, F/O PITOT, R ELEV PITOT, R ALPHA VANE, and AUX PITOT lights on the window and pitot heat module go off. (f) Do this task for engine 2: Stop the Engine Procedure (Usual Engine Stop), AMM TASK 71-00-00-700-819-F00 1) Make sure the CAPT PITOT, L ELEV PITOT, L ALPHA VANE, TEMP PROBE, F/O PITOT, R ELEV PITOT, R ALPHA VANE, and AUX PITOT lights on the window and pitot heat module go on.				MECH	INSP
C. AUTO Air Data Sensor heating Operational Test - Alternative Procedure <u>NOTE:</u> The alternative method does not require engines running. SUBTASK 30-31-00-750-002 <u>WARNING:</u> KEEP PERSONNEL, AND EQUIPMENT AWAY FROM THE PITOT PROBES, TOTAL AIR TEMPERATURE PROBE, AND ANGLE-OF-ATTACK VANE. THESE COMPONENTS WILL BECOME VERY HOT. THEY CAN CAUSE INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT. (1) Make sure the PROBE HEAT A and B switches are set to the AUTO position. (2) Do this check of the following lights on the window and pitot heat module: (a) Make sure the CAPT PITOT, L ELEV PITOT, L ALPHA VANE, TEMP PROBE, F/O PITOT, R ELEV PITOT, R ALPHA VANE, and AUX PITOT lights on the window and pitot heat module go on. (3) Test the AUTO position of the PROBE HEAT A and B switches. (a) Do this task for DEU 1, M1808: Display Electronic Unit Removal, AMM TASK 31-62-21-000-801. (b) Install an ARINC 600 breakout box, SPL-1930 in place of DEU 1. <u>NOTE:</u> It is possible to perform this subtask without ARINC 600 breakout box, SPL-1930, although use of it minimizes risk of damage to the pins. (c) Apply a ground to pin F12 of connector D3973B. (d) Check the following lights on the window and pitot heat module: 1) Make sure the CAPT PITOT, L ELEV PITOT, L ALPHA VANE, TEMP PROBE, F/O PITOT, R ELEV PITOT, R ALPHA VANE, and AUX PITOT lights on the window and pitot heat module go off. (e) Remove the ground from pin F12 of connector D3973B. 1) Make sure the CAPT PITOT, L ELEV PITOT, L ALPHA VANE, TEMP PROBE, F/O PITOT, R ELEV PITOT, R ALPHA VANE, and AUX PITOT lights on the window and pitot heat module go on. (f) Apply a ground to pin F12 of connector D3973E. (g) Check the following lights on the window and pitot heat module: 1) Make sure the CAPT PITOT, L ELEV PITOT, L ALPHA VANE, TEMP PROBE, F/O PITOT, R ELEV PITOT, R ALPHA VANE, and AUX PITOT lights on the window and pitot heat module go off. (h) Remove the ground from pin F12 of connector D3973E.					
EFFECTIVITY AKS ALL		SOURCE MRB	AUTOMATIC AIR DATA SENSOR HEAT D633A109-AKS 30-010-00-01		

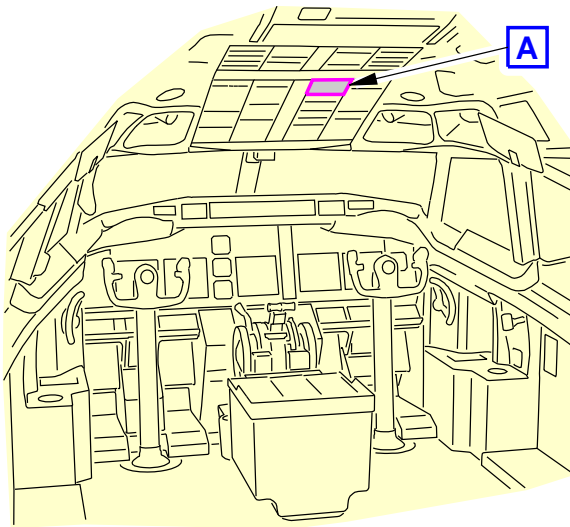
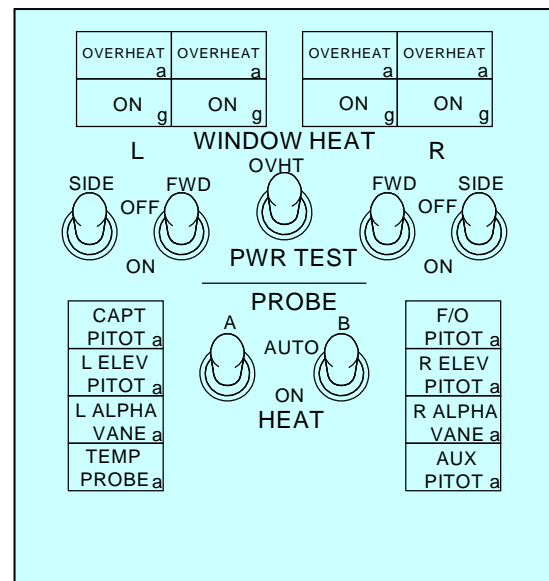
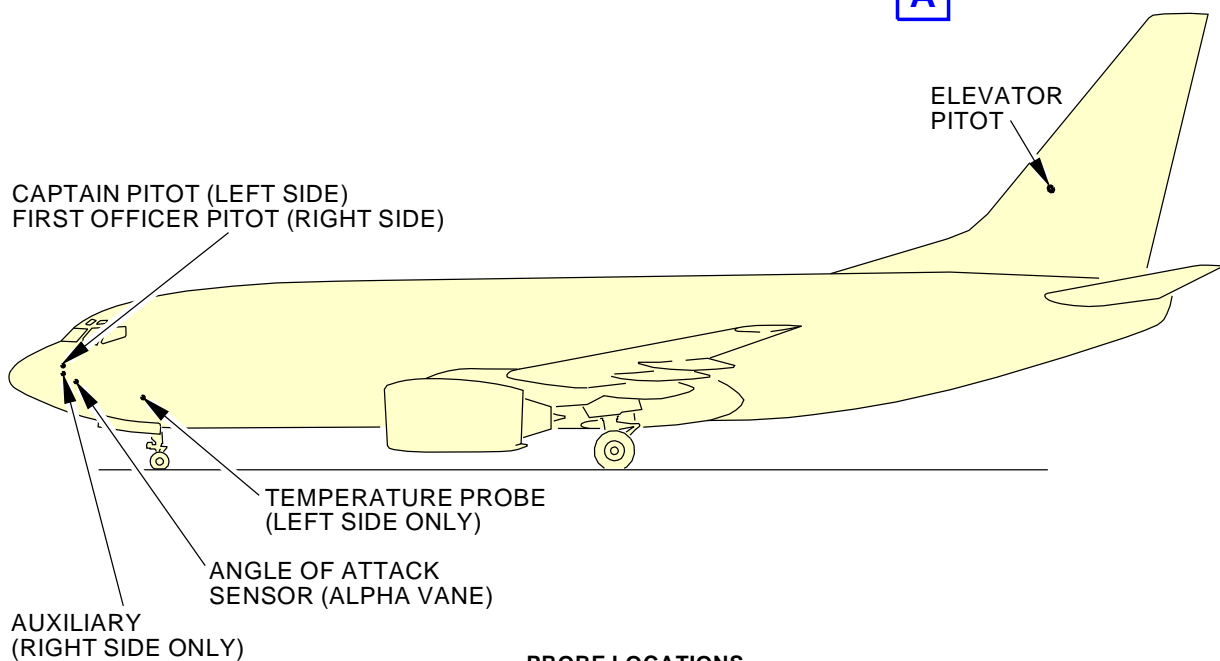
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737-600/700/800/900 TASK CARDS

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 30-010-00-01	
<p>1) Make sure the CAPT PITOT, L ELEV PITOT, L ALPHA VANE, TEMP PROBE, F/O PITOT, R ELEV PITOT, R ALPHA VANE, and AUX PITOT lights on the window and pitot heat module go on.</p> <p>(i) Remove the breakout box.</p> <p>(j) Do this task for DEU 1, M1808: Display Electronic Unit Installation, AMM TASK 31-62-21-400-801.</p> <p>D. Put the Airplane Back to Its Usual Condition</p> <p>SUBTASK 30-31-00-860-016</p> <p>(1) If electrical power is not necessary, do this task: Remove External Power, AMM TASK 24-22-00-860-814.</p> <p style="text-align: center;">————— END OF TASK —————</p>				MECH	INSP
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DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 30-010-00-01
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**FLIGHT COMPARTMENT****WINDOW/PITOT HEAT MODULE (P5-9)****PROBE LOCATIONS (LEFT SIDE IS SHOWN, RIGHT SIDE IS OPPOSITE)****Window/Pitot Heat Module Figure 1**

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