

MAINTENANCE PRACTICES

**ON A/C ALL

TASK 30-10-00-810-801 **DEICE PRESS (Caution) - Fault Isolation**

General

- A. This fault isolation procedure is for when the DEICE PRESS caution light on the Caution And Warning Panel (CAWP) is on.
- В. The DEICE PRESS caution light on the CAWP comes on for the conditions that follow:
 - One or more boot inflation or dwell pressure is not sensed by the Timer and Monitor Unit (TMU) in four seconds
 - One or the two left or right deice manifold pressure is less than 12.5 psig for more than 20 seconds.
- C. DEICE TIMER Caution light on the CAWP also comes on.
- D. The Central Diagnostic System (CDS) can show the related messages that follow:
 - LOW PRESSURE 1A FAIL
 - LOW PRESSURE 1B FAIL
 - LOW PRESSURE 2A FAIL
 - LOW PRESSURE 2B FAIL
 - LOW PRESSURE 3A FAIL
 - LOW PRESSURE 3B FAIL
 - LOW PRESSURE 4A FAIL
 - LOW PRESSURE 4B FAIL
 - LOW PRESSURE 5A FAIL
 - LOW PRESSURE 5B FAIL
 - LOW PRESSURE 6A FAIL
 - LOW PRESSURE 6B FAIL
 - MONITOR 3 FAIL.

2. Job Set-Up Information

Subtask 30-10-00-946-001

Reference Information

REFERENCE	DESIGNATION
AMM30-10-01-000-801	Removal of the Ice and Rain Protection Panel
AMM30-10-01-400-801	Installation of the Ice and Rain Protection Panel

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REFERENCE	DESIGNATION
AMM30-11-00-720-801	Functional Test of the Airframe Pneumatic Deicing Systems
AMM30-11-31-000-801	Removal of the Low Pressure Warning Switches
AMM30-11-31-400-801	Installation of the Low Pressure Warning Switches
AMM31-51-26-710-801	Operational Test of the Caution and Advisory Lights
AMM45-00-30-742-802	Retrieval of Data from the Central Diagnostic System (CDS) – Ice Protection System (ICE PROTECTION)
AMM45-00-30-743-802	Erase the Data from the Central Diagnostic System (CDS) – Ice Protection System (ICE PROTECTION)
FIM30-10-00-810-803	LOW PRESSURE 1A FAIL (Status) – Fault Isolation
FIM30-10-00-810-804	LOW PRESSURE 2A FAIL (Status) – Fault Isolation
FIM30-10-00-810-805	LOW PRESSURE 3A FAIL (Status) – Fault Isolation
FIM30-10-00-810-806	LOW PRESSURE 4A FAIL (Status) – Fault Isolation
FIM30-10-00-810-807	LOW PRESSURE 5A FAIL (Status) – Fault Isolation
FIM30-10-00-810-808	LOW PRESSURE 6A FAIL (Status) – Fault Isolation
FIM30-10-00-810-809	TIMER/MONITOR 3 FAIL (Status) – Fault Isolation
FIM30-10-00-810-810	LOW PRESSURE 1B FAIL (Status) – Fault Isolation
FIM30-10-00-810-811	LOW PRESSURE 2B FAIL (Status) – Fault Isolation
FIM30-10-00-810-812	LOW PRESSURE 3B FAIL (Status) – Fault Isolation
FIM30-10-00-810-813	LOW PRESSURE 4B FAIL (Status) – Fault Isolation
FIM30-10-00-810-814	LOW PRESSURE 5B FAIL (Status) – Fault Isolation
FIM30-10-00-810-815	LOW PRESSURE 6B FAIL (Status) – Fault Isolation
WM30-10-00	Airframe Deicing System

3. **Fault Confirmation**

Subtask 30-10-00-810-001

Confirm the fault as follows:

- (1) Do the CDS fault indication retrieval (Refer to AMM45–00–30–742–802).
- (2) Erase the data from the CDS (Refer to AMM45-00-30-743-802).
- (3) Do the functional test of the airframe pneumatic de-icing system (Refer to AMM30-11-00-720-801).
 - If the DEICE PRESS caution light does not come on, no maintenance procedure is necessary. Do the Close Out.
 - If the DEICE PRESS caution light does come on, do the CDS fault indication retrieval again (Refer to AMM45-00-30-742-802). Do the fault isolation.

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Fault Isolation

Subtask 30-10-00-810-020

Isolate the fault as follows:

- (1) If the copilot side panel dual pressure indicator shows correct system pressure on the two sides and the DEICE PRESS caution light comes on before cycling the boots, do as follows:
 - Replace the left side Low Pressure Warning Switches (Refer to AMM30-11-31-000-801 and AMM30-11-31-400-801). Do the Close Out.
 - If the fault continues, replace the right side Low Pressure Warning Switches (Refer to AMM30-11-31-000-801 and AMM30-11-31-400-801). Do the Close Out.
- (2) If the copilot side panel dual pressure indicator shows correct system pressure on the two sides and the DEICE PRESS caution light comes on during the cycling of the boots, do as follows:
 - If all the boots inflate in sequence and the advisory lights on the ice protection panel comes on, go to step 3.
 - (b) If the deice boots do not inflate or deflate correctly, go to step 3.
 - If any of the advisory light does not come on during the test sequence, check the airframe panel advisory lights (Refer to AMM31–51–26–710–801). If necessary, replace the ice and rain control panel (Refer to AMM30–10–01–000–801 and AMM30-10-01-400-801). Go to step 3.
- (3) Do the steps that follow based on the message on the CDS:
 - If the message is LOW PRESSURE 1A FAIL, do the fault isolation for LOW PRESSURE 1A FAIL (Refer to FIM30–10–00–810–803). Do the Close Out.
 - If the message is LOW PRESSURE 1B FAIL, do the fault isolation for LOW PRESSURE 1B FAIL (Refer to FIM30–10–00–810–810). Do the Close Out.
 - If the message is LOW PRESSURE 2A FAIL, do the fault isolation for LOW PRESSURE 2A FAIL (Refer to FIM30–10–00–810–804). Do the Close Out.
 - If the message is LOW PRESSURE 2B FAIL, do the fault isolation for LOW PRESSURE 2B FAIL (Refer to FIM30–10–00–810–811). Do the Close Out.
 - If the message is LOW PRESSURE 3A FAIL, do the fault isolation for LOW PRESSURE 3A FAIL (Refer to FIM30-10-00-810-805). Do the Close Out.
 - If the message is LOW PRESSURE 3B FAIL, do the fault isolation for LOW PRESSURE 3B FAIL (Refer to FIM30-10-00-810-812). Do the Close Out.
 - If the message is LOW PRESSURE 4A FAIL, do the fault isolation for LOW PRESSURE 4A FAIL (Refer to FIM30–10–00–810–806). Do the Close Out.
 - (h) If the message is LOW PRESSURE 4B FAIL, do the fault isolation for LOW PRESSURE 4B FAIL (Refer to FIM30–10–00–810–813). Do the Close Out.
 - If the message is LOW PRESSURE 5A FAIL, do the fault isolation for LOW PRESSURE 5A FAIL (Refer to FIM30-10-00-810-807). Do the Close Out.
 - If the message is LOW PRESSURE 5B FAIL, do the fault isolation for LOW (j) PRESSURE 5B FAIL (Refer to FIM30–10–00–810–814). Do the Close Out.

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- (k) If the message is LOW PRESSURE 6A FAIL, do the fault isolation for LOW PRESSURE 6A FAIL (Refer to FIM30–10–00–810–808). Do the Close Out.
- If the message is LOW PRESSURE 6B FAIL, do the fault isolation for LOW PRESSURE 6B FAIL (Refer to FIM30-10-00-810-815). Do the Close Out.
- (4) If the CDS fault retrieval shows MONITOR 3 FAIL, do the fault isolation for MONITOR 3 FAIL (Refer to FIM30–10–00–810–809).
- (5) If the CDS fault retrieval does not show any related status message, do the steps that follow:
 - (a) Do a test of the wiring between ground stud GS4 and the left low pressure warning switch (Refer to WM30–10–00):

	3000-P22
Ground Stud	(Left Low Pressure Warning Switch)
GS4	С

- (b) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (c) If the fault still continues, do a test of the wiring between the left low pressure warning switch and the CAWP (Refer to WM30–10–00):

3000-P22	3312-P3
(Left Low Pressure Warning Switch)	(CAWP)
В	22

- (d) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (e) If the fault still continues, do a test of the wiring between ground stud GS5 and the right low pressure warning switch (Refer to WM30–10–00):

	3000-P23
Ground Stud	(Right Low Pressure Warning Switch)
GS5	С

- (f) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (g) If the fault still continues, do a test of the wiring between the right low pressure warning switch and the CAWP (Refer to WM30–10–00):

3000-P23	3312-P3
(Right Low Pressure Warning Switch)	(CAWP)
В	21

(h) If the wiring is unserviceable, repair the wiring. Do the Close Out.

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5. Close Out

Subtask 30-10-00-941-001

- A. Do the functional test of the airframe pneumatic deicing system (Refer to AMM30–11–00–720–801).
- B. Make sure that the DEICE PRESS caution light on the CAWP is not on.
- C. Remove all tools, equipment, and unwanted materials from the work area.

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