



FAULT ISOLATION MANUAL

**ON A/C ALL

TASK 30-30-00-810-804

PITOT HEAT 1 (Caution) – Fault Isolation

1. General

- A. This fault isolation procedure is for when the Caution And Warning Panel (CAWP) shows the PITOT HEAT 1 caution light on.
- B. The CAWP PITOT HEAT 1 caution light comes on when the Timer and Monitor Unit (TMU) senses that the left pitot/static probe heater has failed.

■ **ON A/C 4587-4999 and ON A/C 4001, 4003, 4006, 4008-4009, 4011-4029, 4033-4035, 4038-4045, 4052, 4054, 4056-4058, 4062-4080, 4082, 4084-4085, 4087-4105, 4107-4114, 4116-4118, 4120-4121, 4123, 4125-4126, 4128, 4130-4136, 4138-4140, 4148, 4151-4152, 4155, 4157-4159, 4162, 4165, 4168, 4170-4172, 4174, 4176-4177, 4179-4183, 4185-4199, 4201-4209, 4211-4221, 4224-4225, 4228-4230, 4233, 4237-4238, 4241-4242, 4244, 4247-4249, 4251-4255, 4257-4263, 4266-4273, 4275-4290, 4292-4293, 4296, 4299-4304, 4306-4311, 4313-4314, 4316-4321, 4323-4324, 4326-4343, 4345-4346, 4349, 4351, 4354, 4356-4357, 4359-4362, 4365, 4367-4369, 4371-4377, 4379-4408, 4411-4435, 4437-4439, 4442-4445 Pre SB84-36-04

NOTE: The PITOT HEAT 1 caution light also comes on when the High Pressure Shutoff Valve (HPSOV) fails, because the TMU and the HPSOVs are connected to the same circuit breakers (DEICE CONT (A7) on the left DC circuit breaker panel and DEICE CONT (S5) on the right DC circuit breaker panel). The DEICE TIMER, PITOT HEAT 2, ENG ADPT HEAT 1, ENG ADPT HEAT 2 or PUSHER SYST FAIL caution lights can also come on.

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- C. The Central Diagnostic System (CDS) can show the related messages that follow:
 - PITOT 1 FAIL
 - MONITOR 1 FAIL.
- D. The Pitot Heat 1 caution light can also come on with the DEICE TIMER caution light.

2. Job Set-Up Information

Subtask 30-30-00-946-025

A. Reference Information

REFERENCE	DESIGNATION
AMM24-00-00-861-801	Energize the Electrical System
AMM24-00-00-861-802	De-energize the Electrical System
AMM30-30-00-710-801	Operational Test of the Pitot and Static Anti-icing System
AMM45-00-30-742-802	Retrieval of Data from the Central Diagnostic System (CDS) – Ice Protection System (ICE PROTECTION)

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EFFECTIVITY:
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REFERENCE	DESIGNATION
AMM45-00-30-743-802	Erase the Data from the Central Diagnostic System (CDS) – Ice Protection System (ICE PROTECTION)
FIM30-00-00-810-801	MONITOR 1 FAIL (Status) – Fault Isolation
FIM30-30-00-810-802	PITOT 1 FAIL (Status) – Fault Isolation

3. Fault Confirmation

Subtask 30-30-00-810-016

A. Confirm the fault as follows:

- (1) Energize the aircraft electrical system (Refer to AMM24-00-00-861-801).
- (2) On the maintenance panel, do the CDS fault indication retrieval (Refer to AMM45-00-30-742-802).
- (3) On the maintenance panel, erase the data from the CDS (Refer to AMM45-00-30-743-802).
- (4) Do the operational test of the pitot and static anti-icing system (Refer to AMM30-30-00-710-801).
 - (a) If the PITOT HEAT 1 caution light does not come on, no maintenance procedure is necessary. Do the Close Out.
 - (b) If the PITOT HEAT 1 caution light does come on, do the CDS fault indication retrieval again (Refer to AMM45-00-30-742-802). Do the Fault Isolation.
 - (c) If the PITOT HEAT 1 caution light does come on with the DEICE TIMER caution light. Do the Fault Isolation.

4. Fault Isolation

Subtask 30-30-00-810-017

A. Isolate the fault as follows:

- (1) If the message is PITOT 1 FAIL, do the fault isolation for PITOT 1 FAIL (Refer to FIM30-30-00-810-802). Do the Close Out.
- (2) If the message is MONITOR 1 FAIL, do the fault isolation for MONITOR 1 FAIL (Refer to FIM30-00-00-810-801). Do the Close Out.



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5. Close Out

Subtask 30-30-00-941-025

- A. Make sure that the PITOT HEAT 1 caution light on the CAWP is not on.
- B. De-energize the aircraft electrical system (Refer to AMM24-00-00-861-802).
- C. Remove all tools, equipment, and unwanted materials from the work area.

PSM 1-84-23
EFFECTIVITY:
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