



FAULT ISOLATION MANUAL

**ON A/C ALL

TASK 30-20-00-810-804

ENG ADPT HEAT 1 (Caution) – Fault Isolation

1. General

- A. This fault isolation procedure is for when the Caution And Warning Panel (CAWP) ENG ADPT HEAT 1 caution light is on.
- B. The CAWP ENG ADPT HEAT 1 caution light comes on when the Timer and Monitor Unit (TMU) senses that the left engine intake adapter main and back-up heater elements have failed.

NOTE: If the ENG ADPT HEAT 1 caution light comes on, the left HTR advisory light on the ICE PROTECTION panel will not come on.

**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 ENG ADPT 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 1, PITOT HEAT 2, ENG ADPT HEAT 2 or PUSHER SYST FAIL caution lights can also come on.

**ON A/C ALL

- C. The Central Diagnostic System (CDS) can show the related messages that follow:
 - L ENG ADAPT HEATER 1 FAIL
 - ENG ADAPT SWITCHING FAIL
 - MONITOR 1 FAIL.

2. Job Set-Up Information

Subtask 30-20-00-946-007

REFERENCE	DESIGNATION
AMM 30-21-00-710-801	Operational Test of the Engine Air Intake Anti-Icing
AMM 30-21-00-720-801	Functional Test of the Engine Air Intake Adapter Heater
AMM 45-00-30-742-802	Retrieval of Data from the Central Diagnostic System (CDS) – Ice Protection System (ICE PROTECTION)
AMM 45-00-30-743-802	Erase the Data from the Central Diagnostic System (CDS) – Ice Protection System (ICE PROTECTION)

PSM 1-84-23
EFFECTIVITY:
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REFERENCE	DESIGNATION
FIM 30-00-00-810-801	MONITOR 1 FAIL (Status) – Fault Isolation
FIM 30-20-00-810-801	L ENG ADAPT HEATER 1 FAIL (Status) – Fault Isolation
FIM 30-20-00-810-802	ENG ADAPT SWITCHING FAIL (Status) – Fault Isolation

3. Fault Confirmation

Subtask 30-20-00-810-005

A. Confirm the fault as follows:

- (1) On the ARCDU, do the CDS fault indication retrieval (Refer to AMM 45-00-30-742-802).
- (2) On the ARCDU, erase the data from the CDS (Refer to AMM 45-00-30-743-802).
- (3) Do the operational test of the engine air intake anti-icing (Refer to AMM 30-21-00-710-801).
 - (a) If the ENG ADPT HEAT 1 caution light does not come on, no maintenance procedure is necessary. Do the Close Out.
 - (b) If the ENG ADPT HEAT 1 caution light comes on, do the functional test of the engine air intake adapter heater (Refer to AMM 30-21-00-720-801).
 - (c) If the fault still continues, do the CDS fault indication retrieval again (Refer to AMM 45-00-30-742-802). Do the Fault Isolation.

4. Fault Isolation

Subtask 30-20-00-810-006

A. Isolate the fault as follows:

- (1) If the message is L ENG ADAPT HEATER 1 FAIL, do the fault isolation for L ENG ADAPT HEATER 1 FAIL (Refer to FIM 30-20-00-810-801). Do the Close Out.
- (2) If the message is ENG ADAPT SWITCHING FAIL, do the fault isolation for ENG ADAPT SWITCHING FAIL (Refer to FIM 30-20-00-810-802). Do the Close Out.
- (3) If the message is MONITOR 1 FAIL, do the fault isolation for MONITOR 1 FAIL (Refer to FIM 30-00-00-810-801). Do the Close Out.



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5. Close Out

Subtask 30-20-00-941-003

- A. Make sure that the ENG ADPT HEAT 1 caution light on the CAWP is not on.
- B. Remove all tools, equipment, and unwanted materials from the work area.

PSM 1-84-23
EFFECTIVITY:
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