



FAULT ISOLATION MANUAL

MAINTENANCE PRACTICES

**ON A/C 4001 and ON A/C 4014–4015, 4026–4027, 4042 Pre SB84–34–29 and ON A/C 4006, 4039 Pre SB84–34–60

TASK 34–42–00–810–802

GPWS (Caution) – Fault Isolation

1. General

- A. This fault isolation procedure is for when the caution and warning panel (CAWP) GPWS caution light is on.
- B. The CAWP GPWS caution light comes on when the ground proximity warning computer (GPWC) has sensed an internal fault. The ground proximity warning system (GPWS) caution light also comes on when the GPWC has sensed an external fault (invalid input) that follows:
 - Radio altimeter (RA1)
 - Air data computer (ADC1 and ADC2)
 - Very high frequency (VHF) navigation receiver (VHF NAV 1 or VHF NAV 2)
 - Stall protection module 1 (SPM1) digital-to-analog converter malfunction.
- C. The engine display (ED) can also show a GPWS I/F FAIL message.
- D. The central diagnostic system (CDS) can show the related status messages that follow:
 - GPWS
 - GPWC
 - GPWS/IOP1
 - GPWS/IOP2.

2. Job Set-Up Information

Subtask 34–42–00–946–002

A. Reference Information

REFERENCE	DESIGNATION
AMM TASK 34–42–00–710–801	Operational Test of the Ground Proximity Warning System (GPWS)
AMM TASK 45–00–34–742–801	Retrieval of Data from the Central Diagnostic System (CDS) – Avionics (AVIONICS)
FIM TASK 27–33–00–810–822	GPWC (Status) – Fault Isolation
FIM TASK 34–42–00–810–806	GPWS (Status) – Fault Isolation
FIM TASK 34–42–00–810–814	GPWS/IOP1 (Status) – Fault Isolation
FIM TASK 34–42–00–810–815	GPWS/IOP2 (Status) – Fault Isolation



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3. Fault Confirmation

Subtask 34-42-00-810-004

A. Confirm the fault as follows:

- (1) Do the CDS fault indication retrieval (Refer to AMM TASK 45-00-34-742-801).
 - (a) If there is no related CDS message, no maintenance procedure is necessary. Do the Close Out.
 - (b) If there is one or more related CDS message, do the steps that follow:
 - 1 Do the operational test of the GPWS (Refer to AMM TASK 34-42-00-710-801).
 - 2 On the ARCDU, do the CDS fault indication retrieval again (Refer to AMM TASK 45-00-34-742-801).
 - a If there is no related CDS message, no maintenance procedure is necessary. Do the Close Out.
 - b If there is one or more related CDS message, do the Fault Isolation.

4. Fault Isolation

Subtask 34-42-00-810-005

A. Isolate the fault as follows:

- (1) If the message is GPWS, do the fault isolation for GPWS (Refer to FIM TASK 34-42-00-810-806). Do the Close Out.
- (2) If the message is GPWC, do the fault isolation for GPWC (Refer to FIM TASK 27-33-00-810-822). Do the Close Out.
- (3) If the message is GPWS/IOP1, do the fault isolation for GPWS/IOP1 (Refer to FIM TASK 34-42-00-810-814). Do the Close Out.
- (4) If the message is GPWS/IOP2, do the fault isolation for GPWS/IOP2 (Refer to FIM TASK 34-42-00-810-815). Do the Close Out.

5. Close Out

Subtask 34-42-00-941-002

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