

MAINTENANCE PRACTICES

**ON A/C ALL

TASK 31-51-00-810-801 **AVIONICS (Caution) - Fault Isolation**

General

- A. This fault isolation procedure is for when the caution and warning panel (CAWP) AVIONICS caution light comes on.
- В. The CAWP AVIONICS caution light comes on when there is an avionics no dispatch condition.
- C. The bottom part of the engine display (ED) can show an advisory message as follows:

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- IOP1 FAIL
- IOP2 FAIL
- IOPS FAIL
- IOM1 FAIL
- IOM2 FAIL
- IOMS FAIL
- WTG1 FAIL
- WTG2 FAIL
- WTGS FAIL
- FANS FAIL
- HOT PFD1
- HOT PFD2
- HOT MFD1
- HOT MFD2
- HOT ED
- HOT DISPLAYS
- ED MON FAIL
- PFD1 MON FAIL
- PFD2 MON FAIL
- IOP BAD CONF (ground only)
- DU BAD CONF (ground only)
- WOW/IOP1 FAIL (ground only)
- WOW/IOP2 FAIL (ground only).
- WOW/IOPS FAIL (ground only).

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NOTE:

The CAWP AVIONICS caution light does not come on for the malfunction conditions that caused the avionics advisory message dispatch allowed to come into view as follows:

- RA1 FAIL
- RA2 FAIL
- RAS FAIL
- FADEC1/DU
- FADEC2/DU
- GPWS I/F FAIL
- LINK FAIL.

NOTE:

The CAWP AVIONICS caution light does not come on for the malfunction conditions that caused the general advisory message to come into view as follows:

- BALANCE
- ICE DETECTED
- INCR REF SPEED
- POWERPLANT.

2. Job Set-Up Information

Subtask 31-51-00-946-023

Reference Information

REFERENCE	DESIGNATION
FIM TASK 21–25–00–810–801	
	FANS FAIL (Status) – Fault Isolation
FIM TASK 31-41-00-810-858	WTG1 FAIL (Status) – Fault Isolation
FIM TASK 31-41-00-810-859	WTG2 FAIL (Status) – Fault Isolation
FIM TASK 31-41-00-810-860	WOW/IOP1 FAIL (Status) – Fault Isolation
FIM TASK 31-41-00-810-861	WOW/IOP2 FAIL (Status) – Fault Isolation
FIM TASK 31-41-00-810-862	WOW/IOPS FAIL (Status) - Fault Isolation
FIM TASK 31-41-00-810-863	IOP CONF BAD (Status) – Fault Isolation
FIM TASK 31-41-00-810-864	IOP1 FAIL (Status) - Fault Isolation
FIM TASK 31-41-00-810-865	IOP2 FAIL (Status) - Fault Isolation
FIM TASK 31-41-00-810-866	IOPS FAIL (Status) – Fault Isolation
FIM TASK 31-41-00-810-867	IOM1 FAIL (Status) – Fault Isolation
FIM TASK 31-41-00-810-868	IOM2 FAIL (Status) – Fault Isolation
FIM TASK 31-41-00-810-869	IOMS FAIL (Status) – Fault Isolation
FIM TASK 31-41-00-810-871	WTGS FAIL (Status) – Fault Isolation

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REFERENCE	DESIGNATION
AMM TASK 31-41-06-000-801	Removal of the Input/Output Processor Module
AMM TASK 31-41-06-400-801	Installation of the Input/Output Processor Module
AMM TASK 31-51-01-000-801	Removal of the Caution and Warning Panel
AMM TASK 31-51-01-400-801	Installation of the Caution and Warning Panel
FIM TASK 31-61-00-810-863	HOT DISPLAYS (Status) - Fault Isolation
FIM TASK 31-61-01-810-801	HOT PFD1 (Status) – Fault Isolation
FIM TASK 31-61-01-810-802	HOT MFD1 (Status) – Fault Isolation
FIM TASK 31-61-01-810-803	HOT ED (Status) – Fault Isolation
FIM TASK 31-61-01-810-806	DU BAD CONF (Status) – Fault Isolation
FIM TASK 31-61-01-810-808	ED MON FAIL (Status) – Fault Isolation
FIM TASK 31-61-01-810-811	PFD1 MON FAIL (Status) – Fault Isolation
FIM TASK 31-61-01-810-813	HOT PFD2 (Status) – Fault Isolation
FIM TASK 31-61-01-810-815	HOT MFD2 (Status) – Fault Isolation
FIM TASK 31-61-01-810-816	PFD2 MON FAIL (Status) – Fault Isolation
AMM TASK 45-00-34-742-801	Retrieval of Data from the Central Diagnostic System – Avionics

Fault Confirmation 3.

Subtask 31-51-00-810-001

- Do the fault indication retrieval (Refer to AMM TASK 45–00–34–742–801):
 - (1) If the message is IOP1 FAIL, do the fault isolation for IOP1 FAIL (Refer to FIM TASK 31-41-00-810-864). Do the Close Out.
 - (2) If the message is IOP2 FAIL, do the fault isolation for IOP2 FAIL (Refer to FIM TASK 31-41-00-810-865). Do the Close Out.
 - (3) If the message is IOPS FAIL, do the fault isolation for IOPS FAIL (Refer to FIM TASK 31-41-00-810-866). Do the Close Out.
 - (4) If the message is IOM1 FAIL, do the fault isolation for IOM1 FAIL (Refer to FIM TASK) 31-41-00-810-867). Do the Close Out.
 - (5) If the message is IOM2 FAIL, do the fault isolation for IOM2 FAIL (Refer to FIM TASK 31-41-00-810-868). Do the Close Out.
 - (6) If the message is IOMS FAIL, do the fault isolation for IOMS FAIL (Refer to FIM TASK) 31-41-00-810-869). Do the Close Out.
 - If the message is WTG1 FAIL, do the fault isolation for WTG1 FAIL (Refer to FIM TASK 31-41-00-810-858). Do the Close Out.
 - If the message is WTG2 FAIL, do the fault isolation for WTG2 FAIL (Refer to FIM TASK 31-41-00-810-859). Do the Close Out.

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- (9) If the message is WTGS FAIL, do the fault isolation for WTGS FAIL (Refer to FIM TASK 31–41–00–810–871). Do the Close Out.
- (10) If the message is FANS FAIL, do the fault isolation for FANS FAIL (Refer to FIM TASK 21–25–00–810–801). Do the Close Out.
- (11) If the message is HOT PFD1, do the fault isolation for HOT PFD1 (Refer to FIM TASK 31–61–01–810–801). Do the Close Out.
- (12) If the message is HOT PFD2, do the fault isolation for HOT PFD2 (Refer to FIM TASK 31–61–01–810–813). Do the Close Out.
- (13) If the message is HOT MFD1, do the fault isolation for HOT MFD1 (Refer to FIM TASK 31–61–01–810–802). Do the Close Out.
- (14) If the message is HOT MFD2, do the fault isolation for HOT MFD2 (Refer to FIM TASK 31–61–01–810–815). Do the Close Out.
- (15) If the message is HOT ED, do the fault isolation for HOT ED (Refer to FIM TASK 31–61–01–810–803). Do the Close Out.
- (16) If the message is HOT DISPLAYS, do the fault isolation for HOT DISPLAYS (Refer to FIM TASK 31–61–00–810–863). Do the Close Out.
- (17) If the message is ED MON FAIL, do the fault isolation for ED MON FAIL (Refer to FIM TASK 31–61–01–810–808). Do the Close Out.
- (18) If the message is PFD1 MON FAIL, do the fault isolation for PFD1 MON FAIL (Refer to FIM TASK 31–61–01–810–811). Do the Close Out.
- (19) If the message is PFD2 MON FAIL, do the fault isolation for PFD2 MON FAIL (Refer to FIM TASK 31–61–01–810–816). Do the Close Out.
- (20) If the message is IOP CONF BAD, do the fault isolation for IOP CONF BAD (Refer to FIM TASK 31–41–00–810–863). Do the Close Out.
- (21) If the message is DU CONF BAD, do the fault isolation for DU CONF BAD (Refer to FIM TASK 31–61–01–810–806). Do the Close Out.
- (22) If the message is WOW/IOP1 FAIL, do the fault isolation for WOW/IOP1 FAIL (Refer to FIM TASK 31–41–00–810–860). Do the Close Out.
- (23) If the message is WOW/IOP2 FAIL, do the fault isolation for WOW/IOP2 FAIL (Refer to FIM TASK 31–41–00–810–861). Do the Close Out.
- (24) If the message is WOW/IOPS FAIL, do the fault isolation for WOW/IOPS FAIL (Refer to FIM TASK 31–41–00–810–862). Do the Close Out.

4. Fault Isolation

Subtask 31-51-00-810-002

- A. Isolate the fault as follows:
 - (1) If no advisory messages come into view and the AVIONICS caution light is on, remove and replace the CAWP (Refer to AMM TASK 31–51–01–000–801 and AMM TASK 31–51–01–400–801).

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- (2) If the fault still continues, remove and replace IOP1 (Refer to AMM TASK 31–41–06–000–801 and AMM TASK 31–41–06–400–801).
- (3) If the fault still continues, remove and replace IOP2 (Refer to AMM TASK 31–41–06–000–801 and AMM TASK 31–41–06–400–801).
- (4) If the fault still continues, do a check of the wiring between IOP1 and the CAWP (Refer to WM 31–41–00–1):

3141-P1A-A1	3151-P3
(IOP1)	(CAWP)
227	7

- (5) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (6) If the fault still continues, do a check of the wiring between IOP2 and the CAWP (Refer to WM 31–41–00–1):

3141-P1A-A2	3151-P3
(IOP2)	(CAWP)
227	7

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

5. Close Out

Subtask 31-51-00-941-023

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

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