



## FAULT ISOLATION MANUAL

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### TASK 28-40-00-810-802

#### #1 TANK FUEL LOW (Caution) – Fault Isolation

##### 1. General

- A. This fault isolation procedure is for when the #1 TANK FUEL LOW caution light comes on.
- B. The #1 TANK FUEL LOW caution light comes on in the conditions that follow:
  - There is less than 306 lbs (139 kgs) in the left fuel tank collector bay
  - The engine is operating
  - The parking brake is not set.

**NOTE:** The #1 TANK FUEL LOW indication also comes on after the engines are not operated with low fuel quantity for a long period of time. The collector bay fuel level can be low because there is no fuel scavenging while the engines are not operating. This is not a malfunction condition.

##### 2. Job Set-Up Information

Subtask 28-40-00-946-002

##### A. Reference Information

REFERENCE	DESIGNATION
AMM TASK 24-50-60-000-801	Removal of Junction Box 1, 2, 3
AMM TASK 24-50-60-400-801	Installation of Junction Box 1, 2, 3
WM 28-40-00-1	Fuel Indicating System
AMM TASK 28-40-16-710-801	Operational Test of the Float Switch
AMM TASK 28-40-16-000-801	Removal of the Float Switch
AMM TASK 28-40-16-400-801	Installation of the Float Switch
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
AMM TASK 71-00-00-868-801	Engine Start
AMM TASK 71-00-00-868-802	Engine Shutdown

##### 3. Fault Confirmation

Subtask 28-40-00-810-003

- A. Do the fault confirmation as follows:
  - (1) Either Start the Engine(s) (Refer to AMM TASK 71-00-00-868-801) or alternately use the Auxiliary fuel pump.
  - (2) Do the operational test of the float switch (Refer to AMM TASK 28-40-16-710-801).

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- (a) If the #1 TANK FUEL LOW caution light is off, then no maintenance procedure is necessary. Shut down the engine (Refer to AMM TASK 71-00-00-868-802) and do the Close Out.

**NOTE:** It is not necessary to do the engine start and shutdown in the closeout.

- (b) If the #1 TANK FUEL LOW caution light is on, shut down engine (Refer to AMM TASK 71-00-00-868-802) and do the fault isolation.

### 4. Fault Isolation

Subtask 28-40-00-810-004

A. Isolate the fault as follows:

- (1) Remove and replace the left tank float switch (Refer to AMM TASK 28-40-16-000-801 and AMM TASK 28-40-16-400-801).
- (2) If the fault still continues, remove and replace relay junction box #3 (Refer to AMM TASK 24-50-60-000-801 and AMM TASK 24-50-60-400-801)
- (3) If the fault still continues, remove and replace the caution and warning panel (Refer to AMM TASK 31-51-01-000-801 and AMM TASK 31-51-01-400-801).
- (4) If the fault still continues, do a test of the wiring between the float switch and the caution and warning panel (Refer to WM 28-40-00-1):

2800-P19 (Float Switch)	3312-P3 (Caution and Warning Panel)
Pin B	Pin 36

- (5) If the wiring is unserviceable, repair the wiring.
- (6) If the fault still continues, do a test of the wiring between the float switch and the ground stud (Refer to WM 28-40-00-1

2800-P19 (Float Switch)	(Ground Stud)
Pin A	GS7

- (7) If the wiring is unserviceable, repair the wiring.

### 5. Close Out

Subtask 28-40-00-941-002

- A. Either Start the Engine(s) (Refer to AMM TASK 71-00-00-868-801) or alternately use the Auxiliary fuel pump.
- B. Make sure that the #1 TANK FUEL LOW caution light is off.



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- C. Shut down the Engine(s) (Refer to AMM TASK 71-00-00-868-801).
- D. Remove all tools, equipment, and unwanted materials from the work area.

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