



FAULT ISOLATION MANUAL

**ON A/C ALL

TASK 27-20-00-810-804

#1 RUD HYD (Caution) – Fault Isolation

1. General

- A. This fault isolation procedure is for when the Caution and Warning Panel (CAWP) #1 RUD HYD caution light is on.
- B. The CAWP #1 RUD HYD caution light comes on for the conditions that follow:
 - The left channel (CHNL 1) of the Flight Control Electronic Control Unit (FCECU) has sensed that it cannot control hinge moment limiting to the lower rudder Power Control Unit (PCU)
 - The lower rudder PCU in the No. 1 hydraulic system senses that its internal pressure is less than 350 psi (2413.16kPa)
 - The RUD 1 PUSH OFF switch on the center glareshield panel is pressed to the engaged position

NOTE: The #1 RUD 1 HYD caution light can also come on when the RUD 1 PUSH OFF annunciator switch is set. This is not a malfunction condition.

- The FCECU does not receive the correct pressure data from the No. 1 hydraulic system.

NOTE: The FCECU senses the pressure of the No. 1 hydraulic system after the engine is shutdown and then started again.

- C. The Central Diagnostic System (CDS) can show the related messages that follow:
 - FCECU FAILURE 68
 - FCECU FAILURE 72
 - FCECU FAILURE 73
 - FCECU FAILURE 74
 - FCECU FAILURE 75
 - FCECU FAILURE 76
 - FCECU FAILURE 77
 - FCECU FAILURE 78
 - FCECU FAILURE 79
 - FCECU FAILURE 6B
 - FCECU FAILURE 6D
 - FCECU FAILURE 7A
 - FCECU FAILURE 7B
 - FCECU FAILURE 7C
 - FCECU FAILURE 7D
 - FCECU FAILURE 7E
 - FCECU FAILURE E8



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- FCECU FAILURE EB
- FCECU FAILURE F2
- FCECU FAILURE F3
- FCECU FAILURE F4
- FCECU FAILURE F5
- FCECU FAILURE F6
- FCECU FAILURE F7
- FCECU FAILURE F8
- FCECU FAILURE F9
- FCECU FAILURE FA
- FCECU FAILURE FB
- FCECU FAILURE FC
- FCECU FAILURE FD
- FCECU FAILURE FE
- FCECU FAILURE FF
- LO DP1 LVDT FAIL
- LO DP2 LVDT FAIL.

2. Job Set-Up Information

Subtask 27-20-00-946-006

A. Reference Information

REFERENCE	DESIGNATION
AMM TASK 27-20-00-710-802	Operational Test of the Rudder Control System
AMM TASK 45-00-27-742-801	Retrieval of Data from the Central Diagnostic System (CDS) – Flight Control System (FCS)
AMM TASK 45-00-27-743-801	Erase the Data from the Central Diagnostic System (CDS) – Flight Control System (FCS)
FIM TASK 27-00-00-810-804	FCECU FAILURE ## (Status) – Fault Isolation
FIM TASK 27-20-00-810-806	LO DP1 LVDT FAIL (Status) – Fault Isolation
FIM TASK 27-20-00-810-807	LO DP2 LVDT FAIL (Status) – Fault Isolation
FIM TASK 27-21-26-810-802	FCECU FAILURE 6D (Status) – Fault Isolation
FIM TASK 27-32-06-810-807	FCECU FAILURE 6A (Status) – Fault Isolation
FIM TASK 27-32-06-810-812	FCECU FAILURE EA (Status) – Fault Isolation

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3. Fault Confirmation

Subtask 27-20-00-810-003

A. Confirm the fault as follows:

- (1) Do the CDS fault indication retrieval (Refer to AMM TASK 45-00-27-742-801).
- (2) Erase the data from the CDS (Refer to AMM TASK 45-00-27-743-801).
- (3) Do the operational test of the rudder control system (Refer to AMM TASK 27-20-00-710-802).
 - (a) If the #1 RUD HYD caution light does not come on, no maintenance procedure is necessary. Do the Close Out.
 - (b) If the #1 RUD HYD caution light does come on, do the CDS fault indication retrieval again (Refer to AMM TASK 45-00-27-742-801). Do the Fault Isolation.

4. Fault Isolation

Subtask 27-20-00-810-004

A. Isolate the fault as follows:

- (1) If the message is one or more of the messages that follow:
 - FCECU FAILURE 68
 - FCECU FAILURE 72
 - FCECU FAILURE 73
 - FCECU FAILURE 74
 - FCECU FAILURE 75
 - FCECU FAILURE 76
 - FCECU FAILURE 78
 - FCECU FAILURE 79
 - FCECU FAILURE 6B
 - FCECU FAILURE 7A
 - FCECU FAILURE 7B
 - FCECU FAILURE 7C
 - FCECU FAILURE 7D
 - FCECU FAILURE 7E
 - FCECU FAILURE E8
 - FCECU FAILURE EB
 - FCECU FAILURE F2
 - FCECU FAILURE F3



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- FCECU FAILURE F4
- FCECU FAILURE F5
- FCECU FAILURE F6
- FCECU FAILURE F8
- FCECU FAILURE F9
- FCECU FAILURE FA
- FCECU FAILURE FB
- FCECU FAILURE FC
- FCECU FAILURE FD
- FCECU FAILURE FE
- FCECU FAILURE FF,

do the fault isolation for FCECU FAILURE ## (Refer to FIM TASK 27-00-00-810-804). Do the Close Out.

- (2) If the message is FCECU FAILURE 6D, do the fault isolation for FCECU FAILURE 6D (Refer to FIM TASK 27-21-26-810-802). Do the Close Out.
- (3) If the message is FCECU FAILURE 77, do the fault isolation for FCECU FAILURE 6A (Refer to FIM TASK 27-32-06-810-807). Do the Close Out.
- (4) If the message is FCECU FAILURE F7, do the fault isolation for FCECU FAILURE EA (Refer to FIM TASK 27-32-06-810-812). Do the Close Out.
- (5) If the message is LO DP1 LVDT FAIL, do the fault isolation for LO DP1 LVDT FAIL (Refer to FIM TASK 27-20-00-810-806). Do the Close Out.
- (6) If the message is LO DP2 LVDT FAIL, do the fault isolation for LO DP2 LVDT FAIL (Refer to FIM TASK 27-20-00-810-807). Do the Close Out.

5. Close Out

Subtask 27-20-00-941-006

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