



FAULT ISOLATION MANUAL

**ON A/C ALL

TASK 27-30-00-810-802

ELEVATOR FEEL (Caution) – Fault Isolation

1. General

- A. This fault isolation procedure is for when the Caution and Warning Panel (CAWP) ELEVATOR FEEL caution light is on.
- B. The CAWP ELEVATOR FEEL caution light comes on for the conditions that follow:
 - The Flight Control Electronic Control Unit (FCECU) senses a left or right pitch feel actuator malfunction
 - The FCECU senses that airspeed data, normal acceleration data or flap positions are not correct
 - The FCECU does not energize the left or right pitch feel actuator Linear Variable Differential Transformer (LVDT)
 - The pitch feel actuator is not tracking the command from the FCECU.
- C. The Central Diagnostic System (CDS) can show the related messages that follow:
 - ELEV ASYM FAIL
 - LT ELEV LVDT FAIL
 - RT ELEV LVDT FAIL
 - 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 6A
 - FCECU FAILURE 6B
 - FCECU FAILURE 7A
 - FCECU FAILURE 7B
 - FCECU FAILURE 7C
 - FCECU FAILURE 7D
 - FCECU FAILURE 7E
 - FCECU FAILURE E8



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- FCECU FAILURE EA
- 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
- LT PFEEL ACT FAIL
- RT PFEEL ACT FAIL
- IFC FAILURE 60, 61
- ADC FAILURE 5E, 5F.

NOTE: Fault codes that are not used for the fault isolation are as follows:

- FCECU FAILURE 67
- FCECU FAILURE 69
- FCECU FAILURE E7
- FCECU FAILURE E9
- FCECU FAILURE 6E
- FCECU FAILURE EE.

2. Job Set-Up Information

Subtask 27-30-00-946-010

A. Reference Information



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REFERENCE	DESIGNATION
AMM TASK 27-30-00-710-801	Operational Test of the Elevator 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 27-30-00-810-808	ELEV ASYM FAILURE (Status) – Fault Isolation
FIM TASK 27-31-61-810-801	LT ELEV LVDT FAIL (Status) – Fault Isolation
FIM TASK 27-31-61-810-802	RT ELEV LVDT FAIL (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
FIM TASK 27-32-11-810-801	LT PFEEL ACT FAIL (Status) – Fault Isolation
FIM TASK 27-32-11-810-802	RT PFEEL ACT FAIL (Status) – Fault Isolation
FIM TASK 31-41-00-810-887	IFC FAILURE 60, 61 (Status) – Fault Isolation
FIM TASK 34-11-00-810-873	ADC FAILURE 5E, 5F (Status) – Fault Isolation

3. Fault Confirmation

Subtask 27-30-00-810-007

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 elevator control system (Refer to AMM TASK 27-30-00-710-801).
 - (a) If the ELEVATOR FEEL caution light does not come on, no maintenance procedure is required. Do the Close Out.
 - (b) If the ELEVATOR FEEL 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 27-30-00-810-008

A. If the message is one or more of the messages that follow:

- FCECU FAILURE 68
- FCECU FAILURE 72
- FCECU FAILURE 73

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- 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
- 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.

- B. If the message is LT PFEEL ACT FAIL, do the fault isolation for LT PFEEL ACT FAIL (Refer to FIM TASK 27-32-11-810-801). Do the Close Out.
- C. If the message is RT PFEEL ACT FAIL, do the fault isolation for RT PFEEL ACT FAIL (Refer to FIM TASK 27-32-11-810-802). Do the Close Out.
- D. If the message is IFC FAILURE 60, 61, do the fault isolation for IFC FAILURE 60, 61 (Refer to FIM TASK 31-41-00-810-887). Do the Close Out.



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- E. If the message is ADC FAILURE 5E, 5F, do the fault isolation for ADC FAILURE 5E, 5F (Refer to FIM TASK 34-11-00-810-873). Do the Close Out.
- F. If the message is FCECU FAILURE 6A, do the fault isolation for FCECU FAILURE 6A (Refer to FIM TASK 27-32-06-810-807). Do the Close Out.
- G. 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.
- H. If the message is FCECU FAILURE EA, do the fault isolation for FCECU FAILURE EA (Refer to FIM TASK 27-32-06-810-812). Do the Close Out.
- I. 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.
- J. If the message is ELEV ASYM FAIL, do the fault isolation for ELEV ASYM FAILURE (Refer to FIM TASK 27-30-00-810-808). Do the Close Out.
- K. If the message is LT ELEV LVDT FAIL, do the fault isolation for LT ELEV LVDT FAIL (Refer to FIM TASK 27-31-61-810-801). Do the Close Out.
- L. If the message is RT ELEV LVDT FAIL, do the fault isolation for RT ELEV LVDT FAIL (Refer to FIM TASK 27-31-61-810-802). Do the Close Out.

5. Close Out

Subtask 27-30-00-941-010

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