



## FAULT ISOLATION MANUAL

\*\*ON A/C ALL

### TASK 27-60-00-810-804

#### ROLL SPLR OUTBD HYD (Caution) – Fault Isolation

##### 1. General

- A. The fault isolation procedure is for the Caution and Warning Panel (CAWP) ROLL SPLR OUTBD HYD caution light is on.
- B. The CAWP ROLL SPLR OUTBD HYD caution light comes on when the No. 2 hydraulic system pressure is less than 900 psi (6205.28 kPa), and the Flight Control Electronic Control Unit (FCECU) senses that the airspeed is less than 165 kt (305.58 km/h).
- C. The Central Diagnostic System (CDS) can show one or more of 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 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 F7
  - FCECU FAILURE F8
  - FCECU FAILURE F9



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- FCECU FAILURE FA
- FCECU FAILURE FB
- FCECU FAILURE FC
- FCECU FAILURE FD
- FCECU FAILURE FE
- FCECU FAILURE FF.

### 2. Job Set-Up Information

Subtask 27-60-00-946-002

#### A. Reference Information

| REFERENCE                 | DESIGNATION  |
|---------------------------|--|
| AMM TASK 27-00-01-000-802 | Removal of the Electronic Control Unit   |
| AMM TASK 27-00-01-400-802 | Installation of the Electronic Control Unit  |
| AMM TASK 27-61-00-710-801 | Operational Test of the Roll Spoiler System  |
| AMM TASK 27-61-26-000-801 | Removal of the Unload Valves   |
| AMM TASK 27-61-26-400-801 | Installation of the Unload Valves  |
| AMM TASK 27-61-28-000-801 | Removal of the Pressure Control Switch   |
| AMM TASK 27-61-28-400-801 | Installation of the Pressure Control Switch  |
| AMM TASK 27-61-41-000-801 | Removal of the Spoiler Cable Sensor  |
| AMM TASK 27-61-41-400-801 | Installation of the Spoiler Cable Sensor   |
| AMM TASK 27-61-41-000-802 | Removal of the Spoiler Cable Sensor Switches   |
| AMM TASK 27-61-41-400-802 | Installation of the Spoiler Cable Sensor Switches  |
| 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 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 27-32-06-810-807 | FCECU FAILURE 6A (Status) – Fault Isolation  |
| FIM TASK 27-32-06-810-812 | FCECU FAILURE EA (Status) – Fault Isolation  |
| WM 27-61-00               | Roll Spoilers System   |

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### 3. Fault Confirmation

Subtask 27-60-00-810-003

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 roll spoiler system (Refer to AMM TASK 27-61-00-710-801).
  - (a) If the ROLL SPLR OUTBD HYD caution light does not come on when the SPLR 2 push off switch is set to the on position, no maintenance is necessary. Do the Close Out.
  - (b) If the ROLL SPLR OUTBD HYD caution light does come on when the SPLR 2 push off switch is set to the on position, do the CDS fault indication retrieval again (Refer to AMM TASK 45-00-27-742-801). Do the Fault Isolation.

### 4. Fault Isolation

Subtask 27-60-00-810-004

A. If there is a related CDS message, 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



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- 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.

- (2) 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.
- (3) 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.

B. If there is no related CDS message, isolate the fault as follows:

- (1) Remove and replace the pressure control switch (Refer to AMM TASK 27-61-28-000-801 and AMM TASK 27-61-28-400-801). Do the Close Out.
- (2) If the fault still continues, remove and replace the outboard unload valve (Refer to AMM TASK 27-61-26-000-801 and AMM TASK 27-61-26-400-801). Do the Close Out.
- (3) If the fault still continues, remove and replace the spoiler cable sensor (Refer to AMM TASK 27-61-41-000-801 and AMM TASK 27-61-41-400-801). Do the Close Out.
- (4) If the fault still continues, remove and replace the spoiler cable sensor switch (Refer to AMM TASK 27-61-41-000-802 and AMM TASK 27-61-41-400-802). Do the Close Out.
- (5) If the fault still continues, remove and replace the Flight Control Electronic Control Unit (FCECU) (Refer to AMM TASK 27-00-01-000-801 and AMM TASK 27-00-01-400-801). Do the Close Out.
- (6) If the fault still continues, remove and replace the CAWP (Refer to AMM TASK 31-51-01-000-801 and AMM TASK 31-51-01-400-801). Do the Close Out.
- (7) If the fault still continues, check the wiring between the CAWP and the outboard pressure control switch (Refer to WM 27-61-00):

|                   |  |
|-------------------|--|
| 3312-P5<br>(CAWP) | 2700-P34<br>(Outboard Pressure Control Switch) |
| 9                 | D  |

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- (8) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (9) If the fault still continues, check the wiring between the CAWP and the center glareshield (Refer to WM 27-61-00):

|                   |   |
|-------------------|---|
| 3312-P5<br>(CAWP) | 9811-P176<br>(Center Glareshield Disconnect RH) |
| 9                 | T   |

- (10) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (11) If the fault still continues, check the SPLR 2 PUSH OFF switch wiring (Refer to WM 27-61-00):

|   |   |
|---|---|
| 9811-J176<br>(Center Glareshield Disconnect RH) | 9811-P176<br>(Center Glareshield Disconnect RH) |
| T   | U   |

- (12) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (13) If the fault still continues, check the wiring between the center glareshield and the FCECU (Refer to WM 27-61-00):

|   |                    |
|---|--------------------|
| 9811-J176<br>(Center Glareshield Disconnect RH) | 2700-P2<br>(FCECU) |
| U   | U                  |

- (14) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (15) If the fault still continues, check the wiring between the outboard spoiler unload valve and the spoiler cable sensor switch (Refer to WM 27-61-00):

|   |   |
|---|---|
| 2700-P32<br>(Outboard Spoiler Unload Valve) | 2700-S10<br>(Spoiler Cable Sensor Switch) |
| B   | Contact NO                                |

- (16) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (17) If the fault still continues, check the wiring between the outboard spoiler unload valve and the center glareshield disconnect RH (Refer to WM 27-61-00):

|   |   |
|---|---|
| 2700-P32<br>(Outboard Spoiler Unload Valve) | 9811-P176<br>(Center Glareshield Disconnect RH) |
| B   | D   |

- (18) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (19) If the fault still continues, check the SPLR 2 PUSH OFF switch wiring (Refer to WM 27-61-00):



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|   |   |
|---|---|
| 9811-J176<br>(Center Glareshield Disconnect RH) | 9811-J176<br>(Center Glareshield Disconnect RH) |
| D   | S   |

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

(21) If the fault still continues, check the wiring between the center glareshield disconnect RH and the FCECU (Refer to WM 27-61-00):

|   |                    |
|---|--------------------|
| 9811-P176<br>(Center Glareshield Disconnect RH) | 2700-P2<br>(FCECU) |
| S   | 69                 |

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

## 5. Close Out

Subtask 27-60-00-941-002

- A. Make sure that the ROLL SPLR OUTBD HYD caution light does not come on when the SPLR 2 push off switch is set to the on position (Refer to AMM TASK 45-00-27-742-801).
- B. Remove all tools, equipment, and unwanted materials from the work area.