



FAULT ISOLATION MANUAL

MAINTENANCE PRACTICES

****ON A/C ALL**

TASK 29-30-00-810-801

ELEVATOR PRESS (Caution) – Fault Isolation

1. General

- A. This fault isolation procedure is for when the ELEVATOR PRESS caution light on the Caution and Warning Panel (CAWP) is on.
- B. The ELEVATOR PRESS caution light comes on, when all three hydraulic systems have high pressure.

NOTE: The ELEVATOR PRESS caution light can come on for conditions that are not malfunctions as follows:

- No. 1 and No. 2 engines are operating and
- The HYD #3 ISOL VALVE annunciator switch is set to OPEN.

- C. There are no related Central Diagnostic System (CDS) messages.

2. Job Set-Up Information

Subtask 29-30-00-946-002

A. Reference Information

REFERENCE	DESIGNATION
AMM24-50-60-000-801	Removal of the Relay Junction Box 1, 2, 3
AMM24-50-60-400-801	Installation of the Relay Junction Box 1, 2, 3
AMM 29-00-01-000-801	Removal of the Hydraulic Control Panel
AMM 29-00-01-400-801	Installation of the Hydraulic Control Panel
AMM 29-12-00-720-801	Functional Test of the No. 3 Hydraulic System
AMM 29-12-21-000-801	Removal of the No. 3 Hydraulic System Accumulator Isolation Valve
AMM 29-12-21-400-801	Installation of the No. 3 Hydraulic System Accumulator Isolation Valve
AMM 29-30-11-000-801	Removal of the Accumulator Isolation Valve Pressure Switches
AMM 29-30-11-400-801	Installation of the Accumulator Isolation Valve Pressure Switches
AMM 31-51-01-000-801	Removal of the Caution and Warning Panel
AMM 31-51-01-400-801	Installation of the Caution and Warning Panel
CMM 29-00-01	Hydraulic/Flap Override Control Panel Assembly
WM 29-11-00	Main Hydraulic (No. 1 and No. 2) System

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REFERENCE	DESIGNATION
WM 29-12-00	Main Hydraulic (No. 3) System
WM 29-30-00	Hydraulic Pump Low Pressure Indication System

3. Fault Confirmation

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A. Confirm the fault as follows:

- (1) Do the functional test of the No. 3 hydraulic system (Refer to AMM 29-12-00-720-801).
 - (a) If the ELEVATOR PRESS caution light does not stay on, no maintenance procedure is necessary. Do the Close Out.
 - (b) If the ELEVATOR PRESS caution light does stay on, do the Fault Isolation.

4. Fault Isolation

Subtask 29-30-00-810-003

A. Isolate the fault as follows:

- (1) If the ELEVATOR PRESS light is on with both No. 1 and No. 2 hydraulic system pressurized or engine running and the HYD PRESS 3 indication is zero psi, do the steps that follow:
 - (a) Remove and replace the pressure switch from the port C of the No. 3 system accumulator isolation valve (Refer to AMM 29-30-11-000-801 and AMM 29-30-11-400-801). Do the Close Out.
 - (b) If the fault continues, do a check of the wiring between the No. 3 hydraulic system pressure switch and the CAWP (Refer to WM 29-12-00):

2921-P28 (No. 3 Hydraulic System Pressure Switch)	3312-P1 (CAWP)
F	14

- (c) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (d) If the fault continues, do a check of the wiring between the No. 3 hydraulic system pressure switch and the ground stud (Refer to WM 29-12-00):

2921-P28 (No. 3 Hydraulic System Pressure Switch)	(Ground Stud)
E	2921-GS20

- (e) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (f) If the fault continues, remove and replace the CAWP (Refer to AMM 31-51-01-000-801 and AMM 31-51-01-400-801). Do the Close Out.



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- (2) If the ELEVATOR PRESS caution light is on, HYD 3 PRESS indication is more than 1500 psi and the HYD #3 ISO VALVE annunciator switch is not set to OPEN, do the steps that follow:
- (a) Remove and replace the hydraulic accumulator isolation valve (Refer to AMM 29-12-21-000-801 and AMM 29-12-21-400-801). Do the Close Out.
 - (b) If the fault continues, remove the hydraulic control panel (Refer to AMM 29-00-01-000-801).
 - 1 Check the HYD #3 ISOL VALVE switch (Refer to CMM 29-00-01).
 - a If the switch is not defective, continue with the Fault Isolation.
 - b If the switch is defective, remove and replace the switch (Refer to CMM 29-00-01).
 - (c) Install the hydraulic control panel (Refer to AMM 29-00-01-400-801).
 - (d) Do the functional test of the No. 3 hydraulic system (Refer to AMM 29-12-00-720-801).
 - (e) If the fault continues, remove and replace the No. 3 system accumulator isolation valve pressure switch (Refer to AMM 29-30-11-000-801 and AMM 29-30-11-400-801). Do the Close Out.
 - (f) If the fault continues, remove and replace the No. 1 hydraulic system pressure switch (Refer to AMM 29-30-11-000-801 and AMM 29-30-11-400-801). Do the Close Out.

NOTE: There are two pressure switches installed on the No. 1 hydraulic system isolation valve. Remove and replace the pressure switch that is connected to the electrical connector 2921-P26.
 - (g) If the fault continues, remove and replace the No. 2 hydraulic system pressure switch (Refer to AMM 29-30-11-000-801 and AMM 29-30-11-400-801). Do the Close Out.

NOTE: There are two pressure switches installed on the No. 2 hydraulic system isolation valve. Remove and replace the pressure switch that is connected to the electrical connector 2921-P27.
 - (h) If the fault continues, do a check of the wiring between the No. 3 hydraulic system isolation valve and the No. 3 hydraulic system selector isolation switch (Refer to WM 29-12-00):

2921-P24 (No. 3 Hydraulic System Isolation Valve)	2921-P100 (No. 3 Hydraulic System Isolation Selector Switch)
B	B-

- (i) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (j) If the fault continues, remove and replace the relay junction box No. 3 (Refer to AMM 24-50-60-000-801 and AMM 24-50-60-400-801).
- (k) If the fault still continues, do a check of the wiring between the No. 3 hydraulic system selector isolation switch and the relay junction box No. 3 (Refer to WM 29-12-00):

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2921-P100 (No. 3 Hydraulic System Isolation Selector Switch)	RJB3-P1A (Relay Junction Box No. 3)
X	D11

- (l) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (m) If the fault continues, do a check of the wiring between relay junction box No. 3 and the No. 1 hydraulic system pressure switch (Refer to WM 29-12-00 and WM 29-11-00):

RJB3-P1A (Relay Junction Box No. 3)	2921-P26 (No. 1 Hydraulic System Pressure Switch)
D12	A

- (n) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (o) If the fault continues, do a check of the wiring between the No. 1 hydraulic system pressure switch and the No. 2 hydraulic system pressure switch (Refer to WM 29-11-00):

2921-P26 (No. 1 Hydraulic System Pressure Switch)	2921-P27 (No. 2 Hydraulic System Pressure Switch)
B	A

- (p) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (q) If the fault continues, do a check of the wiring between the No. 2 hydraulic system pressure switch and the ground stud (Refer to WM 29-11-00):

2921-P27 (No. 2 Hydraulic System Pressure Switch)	(Ground Stud)
B	2921-GS18

- (r) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (s) If the fault continues, do a check of the wiring between the No. 1 hydraulic isolation valve and the No. 1 hydraulic system pressure switch (Refer to WM 29-30-00):

2931-P19 (No. 1 Hydraulic Isolation Valve)	2921-P26 (No. 1 Hydraulic System Pressure Switch)
C	E

- (t) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (u) If the fault continues, do a check of the wiring between the No. 1 hydraulic isolation valve and the ground stud (Refer to WM 29-30-00):



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2931-P19 (No. 1 Hydraulic Isolation Valve)	(Ground Stud)
B	2921-GS17

- (v) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (w) If the fault continues, do a check of the wiring between the No. 2 hydraulic isolation valve and the No. 2 hydraulic system pressure switch (Refer to WM 29-30-00):

2931-P20 (No. 2 Hydraulic Isolation Valve)	2921-P27 (No. 2 Hydraulic System Pressure Switch)
C	E

- (x) If the wiring is unserviceable, repair the wiring. Do the Close Out.
- (y) If the fault continues, do a check of the wiring between the No. 2 hydraulic isolation valve and the ground stud (Refer to WM 29-30-00):

2931-P20 (No. 2 Hydraulic Isolation Valve)	(Ground Stud)
B	2921-GS19

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

5. Close Out

Subtask 29-30-00-941-001

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