

## MAINTENANCE PRACTICES

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### TASK 21-30-00-810-801

Unable to Pressurize the Cabin After Take-Off (CABIN PRESS warning may also be reported) - Fault Isolation

#### 1. General

- A. This fault isolation procedure is for when the cabin cannot be pressurized after the take-off, which may also be accompanied with the CABIN PRESS warning on the Caution and Warning Panel (CAWP).
- The CAWP shows the CABIN PRESS warning when the cabin altitude is more than 9800 ±200 ft. В. (3048 m).

NOTE: This fault isolation procedure is not applicable when the take-off or landing elevation is more than 8000 ft. (2438.40 m).

NOTE: For take-off or landing elevations more than 8000 ft. (2438.40 m), the CABIN PRESS warning indication will come on in one of the two conditions that follow:

- The aircraft take-off altitude plus 1000 ft. (304.80 m)
- The landing altitude plus 1000 ft. (304.80 m).
- C. The Audio and Radio Control Display Unit (ARCDU) can also show one or more of the related Centralized Diagnostics System (CDS) status messages that follow:
  - AFT OUTFLOW VALVE FAIL
  - CPC/OF VALVE DATA FAIL
  - CPC/ADU ARINC FAIL
  - CPC/CIM ARINC FAIL
  - CIM/ADU ARINC FAIL
  - CP/CONTROL PANEL FAIL
  - CP CONTROLLER FAIL
  - INDICATION MODULE FAIL.

#### 2. Job Set-Up Information

Subtask 21-30-00-946-001

## Reference Information

REFERENCE	DESIGNATION
AMM TASK 12-10-52-863-801	Pressurization of the Reservoir Tank for the Door Seal System
AMM TASK 21-31-00-720-801	Functional Test of the Pressurization Control

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REFERENCE	DESIGNATION
AMM TASK 45-00-21-742-802	Retrieval of Data from the Centralized Diagnostics System (CDS) – Cabin Pressure Control System (CABIN PRESS CONTROL)
AMM TASK 45-00-21-743-802	Erase the Data from the Centralized Diagnostics System (CDS) – Cabin Pressure Control System (CABIN PRESS CONTROL)
FIM TASK 21-30-00-810-803	AFT OUTFLOW VALVE FAIL (Status) – Fault Isolation
FIM TASK 21-30-00-810-804	CPC/OF VALVE DATA FAIL (Status) – Fault Isolation
FIM TASK 21-30-00-810-805	CPC/ADU ARINC FAIL (Status) – Fault Isolation
FIM TASK 21-30-00-810-806	CPC/CIM ARINC FAIL (Status) - Fault Isolation
FIM TASK 21-30-00-810-807	CIM/ADU ARINC FAIL (Status) - Fault Isolation
FIM TASK 21-30-00-810-808	CP CONTROL PANEL FAIL (Status) – Fault Isolation
FIM TASK 21-30-00-810-809	CP CONTROLLER FAIL (Status) – Fault Isolation
FIM TASK 21-30-00-810-813	INDICATION MODULE FAIL (Status) – Fault Isolation
FIM TASK 52-70-00-810-801	FUSELAGE DOORS (Warning) – Fault Isolation

## 3. Fault Confirmation

Subtask 21-30-00-810-001

# A. Do the fault confirmation as follows:

- (1) If the fault occurred during the take–off/climb, do the fault isolation for the FUSELAGE DOORS warning (Refer to FIM TASK 52–70–00–810–801).
- (2) If the aircraft experienced a sudden loss of pressure or did not pressurize after the take–off or did not respond to the cabin pressure controller inputs, do the inspection of the aft cargo bay blow out panel.
  - (a) Before you open the AFT Baggage door, check the baggage door handle to make sure that it was correctly stowed.
  - (b) If the panel is dislodged, do the inspection of the aft cargo door seal for the damage or unseated condition.
  - (c) If the panel is not dislodged, do the inspection of all door seals for the condition and security.

NOTE: If necessary, do the leak check of the forward passenger door and aft cargo door seal (Refer to AMM TASK 12–10–52–863–801).

- (3) Do a check of the ECS bay area for air leaks from ruptured/damaged ducts or loose clamps.
- (4) On the CDS, retrieve and record the current fault messages for the Environmental Control System (ECS). If any fault messages retrieved, refer to the appropriate section(s) of the FIM

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for troubleshooting.

NOTE: As an example, a single failure of Pack Flow Control and Shutoff Valve can potentially cause cabin not to pressurize during climb, or depressurize in flight.

- (5) Check the ground air connection and ram air check–valve to make sure that they are serviceable.
- (6) On the CDS, retrieve and record the data from the CDS for the Cabin Pressure Controller system (CPCS) (Refer to AMM TASK 45–00–21–742–802).

NOTE: CPC\_OFV\_DATA\_FAIL can potentially be a nuisance fault code. If this message is retrieved, refer to SL 84–21–018.

- (7) On the CDS, erase the data from the CDS for the CPC (Refer to AMM TASK 45–00–21–743–802).
- (8) Do the functional test of the AUTO pressurization control (Refer to AMM TASK 21–31–00–720–801, Subtask 21–31–00–720–023).
- (9) On the CDS, once again, retrieve the data from the CDS for the CPC (Refer to AMM TASK 45–00–21–742–802).
- (10) If the functional test is carried out satisfactory and the CDS shows no related status messages, then no maintenance procedure is necessary. Do the Close Out.
- (11) If the CDS shows any related status messages, then do the Fault Isolation procedure.

## Fault Isolation

Subtask 21-30-00-810-002

## A. Do the fault isolation as follows:

- (1) If the CDS has confirmed the AFT OUTFLOW VALVE FAIL status message, do the fault isolation for AFT OUTFLOW VALVE FAIL (Refer to FIM TASK 21–30–00–810–803). Do the Close Out.
- (2) If the CDS has confirmed the CPC/OF VALVE DATA FAIL status message, do the fault isolation for CPC/OF VALVE DATA FAIL (Refer to FIM TASK 21–30–00–810–804). Do the Close Out.

NOTE: CPC\_OFV\_DATA\_FAIL can potentially be a nuisance fault code. If this message is retrieved, refer to SL 84–21–018.

- (3) If the CDS has confirmed the CPC/ADU ARINC FAIL status message, do the fault isolation for CPC/ADU ARINC FAIL (Refer to FIM TASK 21–30–00–810–805). Do the Close Out.
- (4) If the CDS has confirmed the CPC/CIM ARINC FAIL status message, do the fault isolation for CPC/CIM ARINC FAIL (Refer to FIM TASK 21–30–00–810–806). Do the Close Out.
- (5) If the CDS has confirmed the CIM/ADU ARINC FAIL status message, do the fault isolation for CIM/ADU ARINC FAIL (Refer to FIM TASK 21–30–00–810–807). Do the Close Out.
- (6) If the CDS has confirmed the CP CONTROL PANEL FAIL status message, do the fault isolation for CP CONTROL PANEL FAIL (Refer to FIM TASK 21–30–00–810–808). Do the Close Out.

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- (7) If the CDS has confirmed the CP CONTROLLER FAIL status message, do the fault isolation for CP CONTROLLER FAIL (Refer to FIM TASK 21–30–00–810–809). Do the Close Out.
- (8) If the CDS has confirmed the INDICATION MODULE FAIL status message, do the fault isolation for INDICATION MODULE FAIL (Refer to FIM TASK 21–30–00–810–813). Do the Close Out.

# 5. Close Out

Subtask 21-30-00-941-001

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

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