

Advisory Wire

REFERENCE NO: AW700-28-0677

INFORMATION
TYPE:

Maintenance
Operational

ATA: 28-21

EFFECTIVITY: Global 7500 (70006 – 79999)

**SUBJECT: Uncommanded Activation of
the Primary Fuel Pumps**

1. REFERENCES:

AMP Procedures:

- 1.1. Main battery Disconnect procedure - BD700-A-J-24-32-05-00AAA-510A-A
- 1.2. Auxiliary-power-unit battery Disconnect procedure – BD700-A-J-24-32-03-00AAA-510A-A
- 1.3. Thermal circuit breakers De-energize electrical network - BD700-A-J-24-00-00-02AAA-561A-A
- 1.4. Thermal circuit breakers Energize electrical network - BD700-A-J-24-00-00-02AAA-761A-A
- 1.5. External AC power – Connect procedure – BD700-A-J24-41-00-00AAA730-A-A

2. INTRODUCTION:

This Advisory Wire is to inform Operators of a potential activation of the Primary Fuel Pumps when the batteries are disconnected and the External AC Power is applied to the aircraft.

3. DESCRIPTION:

Bombardier has recently received reports of uncommanded activation of the Primary Pumps during the course of maintenance activities. At the time of the events, Aircraft were energized via a Ground Power Unit (GPU) and both batteries (Main and APU) were disconnected. The MAIN BATT and the APU BATT switches were in the OFF position.

Investigation revealed that the Secondary Power Distribution Assembly (SPDA) 3 and 4 do not interpret the Fuel Pump command switch position as intended. This is due to the absence of voltage on the Main BATT Bus and APU BATT Bus which enables a ground signal through the Auxiliary Pump relays thus activating the Primary Pumps.

4. ACTION:

In order to prevent activation and potential damage to the pumps, Bombardier recommends to open and tag the APU BATT EPC and the MAIN BATT EPC prior to disconnecting the batteries and applying external electrical power on the aircraft.

This can be accomplished by following the reference 1.3 AMP procedure - Thermal circuit breakers De-Energize electrical network.

Name	CB Number/Location
L AUX PUMP	MB-EPC-B10
R AUX PUMP	AB-EPC-B10

Upon connection of the MAIN and APU batteries to the aircraft, untag and close the L AUX PUMP and the R AUX PUMP TCBs. This can be accomplished by following the reference 1.4 AMP procedure - Thermal circuit breakers Energize electrical network.

Note: Inadvertently activating the primary pumps without fuel in the tank may cause permanent damage to the pumps.

Bombardier is currently evaluating potential corrective actions that would prevent the uncommanded activation of the Primary Pumps with the batteries disconnected.

Should you have any questions pertaining to this AW or additional queries, please contact your Bombardier Field Service Representative (FSR) or the Customer Response Center (CRC).