



A Textron Company

## **ALERT SERVICE BULLETIN**

**412-20-184**

**PSL # 361**

25 August 2020

**MODEL AFFECTED:** 412EP

**SUBJECT:** CIRCUIT BREAKER PANEL P/N 412-589-101, INSPECTION OF.

**HELICOPTERS AFFECTED:** Serial numbers 37002 through 37013, 37017, 37018, 37025 through 37029, 37031 through 37041, and 36550, 36562, 36612, 36614, 36648, 36649, 36658, and 36659  
[Serial numbers 37014 through 37016, 37019, 37021 through 37024 and 37030 will have the intent of this bulletin accomplished prior to delivery.]  
[Serial numbers 37020, 37042 through 37999, 38001 through 38999 and 39101 through 39999 are not affected by this bulletin. These helicopters have a different circuit breaker panel part number installed.]

**COMPLIANCE:** No later than 90 days after the release date of this bulletin.

### **DESCRIPTION:**

Bell has discovered that some left-hand overhead circuit breaker panel assemblies 412-589-101 may have the inverter number 1 power (INV 1/PWR) bus incorrectly identified. In some cases, the symbol shows the INV 1/PWR as being on the “Essential Bus” while it should show the symbol for the “Emergency Bus”.

Some helicopters may have had the original circuit breaker panel replaced by a customizing center. If the original panel has been replaced and the replacement panel is found with the INV 1/PWR bus incorrectly identified, operators are invited to contact their customizing center to obtain a replacement panel. During the investigation Bell also found that the publications listed in the “PUBLICATIONS AFFECTED” block were

showing the wrong symbol for the INV 1/PWR. These publications will be corrected to show the proper bus symbol.

Applicability of this bulletin to any spare part shall be determined prior to its installation on an affected helicopter.

**APPROVAL:**

The engineering design aspects of this bulletin are FAA approved.

**CONTACT INFO:**

For any questions regarding this bulletin, please contact:

Bell Product Support Engineering  
Tel: 1-450-437-2862 / 1-800-363-8023 / productsupport@bellflight.com

**MANPOWER:**

Approximately 2.0 man-hours are required to complete this bulletin if the circuit breaker panel requires replacement. This estimate is based on hands-on time and may vary with personnel and facilities available.

**WARRANTY:**

Owners / Operators of Bell Helicopters who comply with the instructions in this bulletin will be eligible to receive non prorated replacement part as applicable, listed in the MATERIAL section of this bulletin. Bell has recently introduced enhancements to the "My Bell Portal" which allocates specific warranty entitlement for an aircraft by serial number. The Product Service Letter (PSL) number which will be listed below the bulletin number on the introduction page is going to be a required field when submitting a claim on the Bulletins Tab for replacement parts, labor, and/or freight. If you receive an ASB or TB that does not have a PSL number, then there is no warranty entitlement for that bulletin.

Labor entitlement: \$190.00 USD

To receive parts, under warranty:

- **Comply with the instructions contained in this Bulletin no later than the applicable date in the "compliance section".**
- If there is a PSL number identified in the bulletin you will be required to enter this PSL number which will validate warranty entitlement for the selected aircraft. Please ensure that you use the Bulletin tab on the warranty section in VISTA to file your claim.

NOTE: Failure to comply within the allowed time and you will not be eligible for the special warranty listed above.

**MATERIAL:**

**Required Material:**

The following material is required for the accomplishment of this bulletin and may be obtained through your Bell Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty (Note)</u>
412-589-101	Circuit Breaker Panel	1 (1)

**Note 1:** Required only if the circuit breaker panel is found defective. If the circuit breaker panel is not the original, operators are invited to contact their customizing center for a replacement panel.

**Consumable Material:**

None required.

**SPECIAL TOOLS:**

None required.

**WEIGHT AND BALANCE:**

Not affected.

**ELECTRICAL LOAD DATA:**

Not affected.

**REFERENCES:**

BHT-412-IPBS-EPI Illustrated Parts Breakdown Supplements  
BHT-412-MMS-EPI Maintenance Manual  
BHT-412-MD-05 Manufacturer Data  
AA-14045 Illustrated Parts Breakdown Supplements  
AA-11028 Installation Instruction

**PUBLICATIONS AFFECTED:**

BHT-412-MMS-EPI Maintenance Manual  
BHT-412-MD-05 Manufacturer Data

## **ACCOMPLISHMENT INSTRUCTIONS:**

1. Prepare the helicopter for maintenance.
2. Disconnect the helicopter battery.
3. Inspect the left-hand circuit breaker panel. The INV 1/PWR circuit breaker should be identified as shown in Figure 1. Figure 2 shows the incorrect bus symbol.
4. If the INV 1/PWR circuit breaker is identified as shown in Figure 1, go to step 10, otherwise proceed with the following steps.
5. Remove mounting screws (2, Figure 3) from circuit breaker panel (1). Retain the screws for future use.
6. Remove the circuit breaker panel (1) by gently pulling downward until it releases from the integrated lighting connector.
7. Install the new circuit breaker panel (1) by gently pushing upward until the integrated lighting connector is engaged.
8. Install the previously removed mounting screws (2) onto the circuit breaker panel (1).
9. Perform the overhead console lights system operational check in accordance with the BHT-412-MM-10.
10. Make an entry in the helicopter logbook indicating findings and compliance with this Alert Service Bulletin.

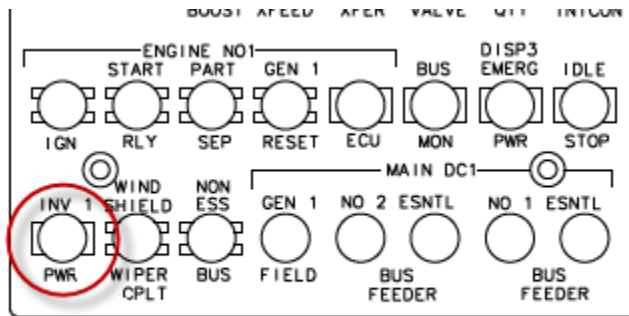
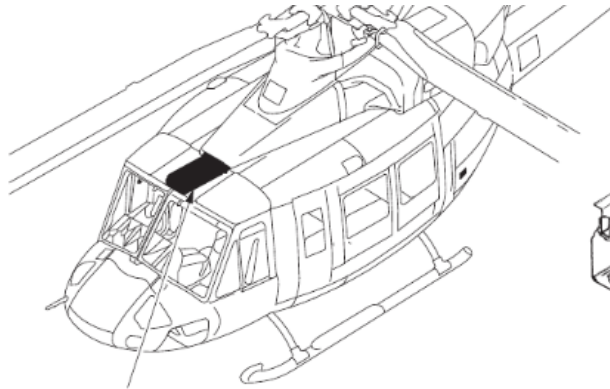


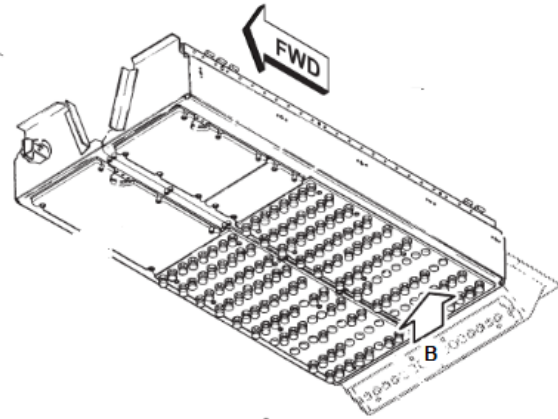
Figure 1 - Correct INV 1/PWR bus symbol.



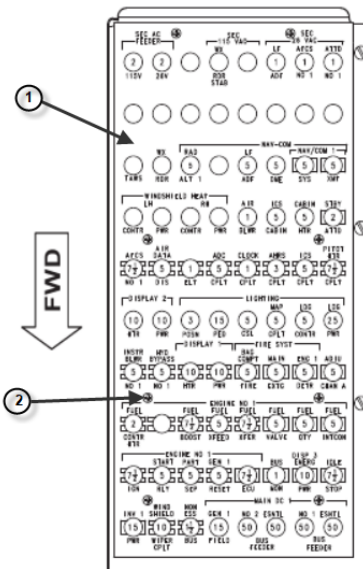
Figure 2 - Incorrect INV 1/PWR bus symbol.



SEE DETAIL A



DETAIL A



Detail B

- 1- Circuit Breaker panel
- 2- Mounting screw

Figure 3 - Circuit breaker panel installation.