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# SERVICE BULLETIN

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## **K. Warranty Policy:**

The MDHI Warranty and Repair Department will give 0.5 hour of labor warranty (spares credit) to the operator. MDHI will also give to the operator 1.0 hour of labor warranty (spares credit) if the wiring is repaired.

## **L. Disposition of Parts Removed:**

N/A

## **M. Tooling:**

**NOTE:** These tools are necessary only if the continuity check shows that the wiring is incorrect. The insertion/extraction tool CIET-16-03 or the insertion/removal tool are alternative tools for extraction tool CET-16-4 and insertion tool CIT-16.

| TOOLS AND EQUIPMENT   |  |
|---|--|
| Nomenclature  | Source   |
| Extraction Tool CET-16-4 (PN 038888-0004)   | ITT Cannon Electric (TS8),<br>3208 Humboldt Street,<br>Los Angeles, CA 90031 |
| Insertion Tool CIT-16 (PN 038895-0000)  | ITT Cannon Electric (TS8)  |
| Insertion/Extraction Tool CIET-16-03<br>(PN 274-7002-000)<br>(Alternative for PN 038888-0004 or PN 038895-0000) | ITT Cannon Electric (TS8)  |
| Insertion/Removal Tool (PN 10538988-16)<br>(Alternative for PN 038888-0004 or PN 038895-0000)                   | AMP Inc. (TS1),<br>441 Friendship Road,<br>Harrisburg, PA 17111              |

## **N. Weight and Balance:**

N/A

## **O. Electrical Load Data:**

N/A

## **P. Other Publications Affected:**

N/A

## **Q. Reference Publications:**

Refer to the latest revision of these publications for procedures and additional information:

CSP-HMI-2, Basic Handbook of Maintenance Instructions – Servicing and Maintenance

CSP-HMI-3, Basic Handbook of Maintenance Instructions – Instruments/Electrical/-Avionics (Ref. Section 96-02-00, Figure 208, Sheet 3, for Wiring Diagram)

CSP-IPC-4, Illustrated Parts Catalog

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## 2. ACCOMPLISHMENT INSTRUCTIONS

(Ref. Figure 1)

### A. Check Procedure

- (1). Make sure the rotorcraft electrical power is OFF.
- (2). Locate the GCU under the left-hand pilot foot panel in the battery compartment.
- (3). Remove lockwire from Connector P1203.
- (4). Remove Connector P1203 from GCU.
- (5). Disconnect the wire from Starter/Generator G300 Terminal D.
- (6). Do a continuity check to determine which pin (F or K) is connected to Terminal D.
  - (a). If Pin F is connected to Terminal D, the wiring is correct. Go to Procedure C.
  - (b). If Pin K is connected to Terminal D, the wiring must be repaired. Go to Procedure B.

### B. Repair Procedure

- (1). Remove the backshell from Connector P1203 to get access to the wires and pins.
- (2). Remove Wire GCU1A22N WHT and its pin from Pin F location with extraction tool.
- (3). Remove Wire P1052A22 and its pin from Pin K location with extraction tool.
- (4). Insert Wire P1052A22 and its pin in Pin F location with insertion tool.
- (5). Insert Wire GCU1A22N WHT and its pin in Pin K location with insertion tool.
- (6). Make sure pins F and K are correctly installed and locked in place.
- (7). Install the backshell on Connector P1203.
- (8). Do a check of the continuity between Connector P1203 Terminal F and Starter/Generator G300 Terminal D and between Connector P1203 Terminal K and a suitable ground point with a Volt/Ohmmeter.

### C. Job Close-Up

- (1). Install Connector P1203 on GCU.
- (2). Connect the wire to Starter/Generator G300 Terminal D.
- (3). Safety Connector P1203 with lockwire.
- (4). Install the left-hand pilot foot panel.

### D. Compliance Record

- (1). Record compliance to this Service Bulletin in the Compliance Record section of the Rotorcraft Log Book.
- (2). Complete Bulletin Completed Record form (attached) and FAX or e-mail to MHDI Field Service Department.

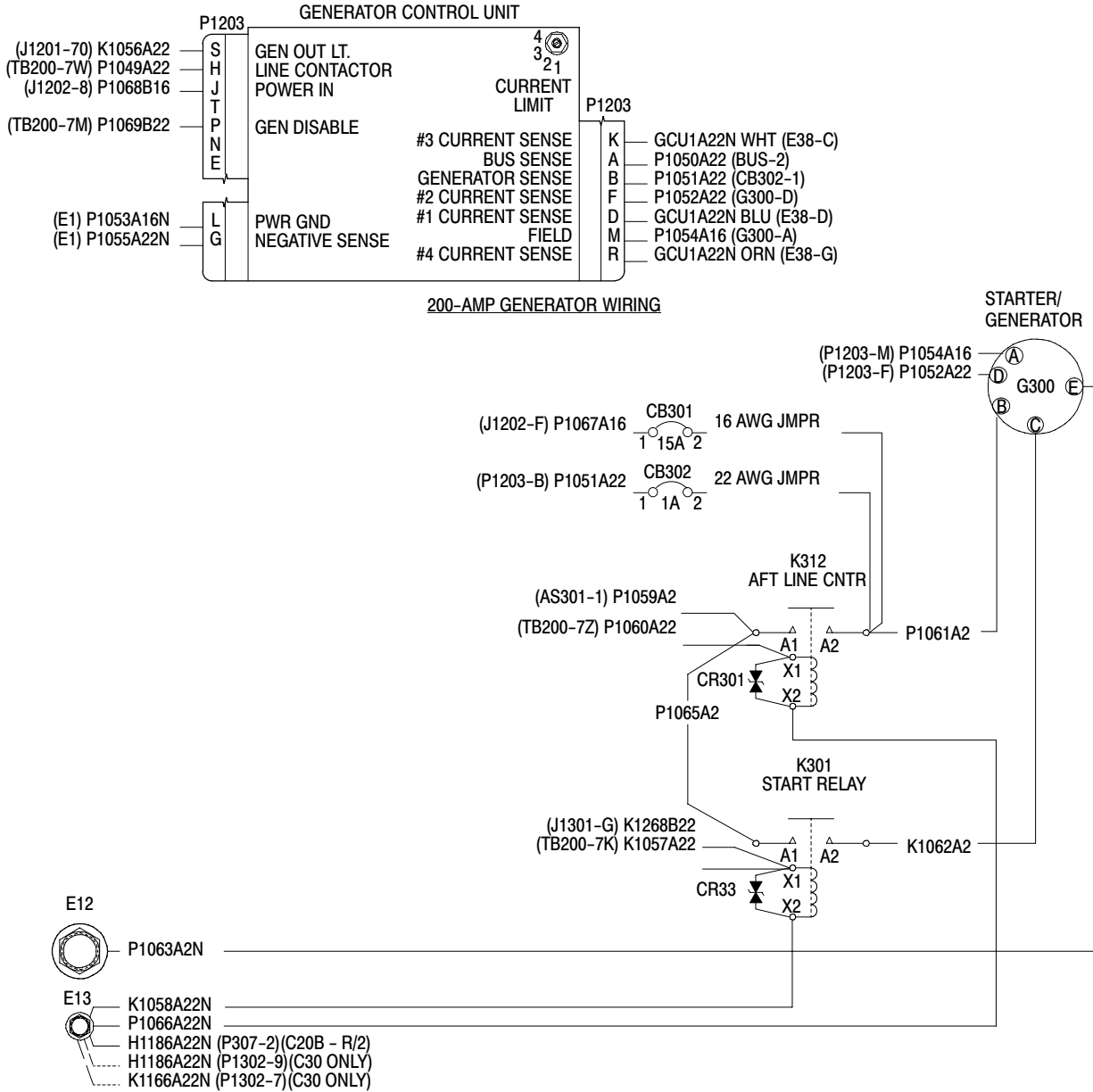
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88-820

**Figure 1. GCU and Starter/Generator Wiring Diagram**

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## Bulletin Completed Record

### One-Time Inspection of the Generator Control Unit and 200-Amp Starter/Generator Wiring

MD Helicopters, Inc.  
Field Service Department  
4555 E. McDowell Road  
Mesa, AZ 85215-9734

800-388-3378 Phone (U.S. and Canada)  
480-346-6387 Phone (International)  
480-346-6813 Fax

FAX this form to MDHI at 480-346-6813 or E-mail to ServiceEngineering@mdhelicopters.com

|                               |  |
|-------------------------------|--|
| <b>Owner /Operator:</b> _____ | <b>Helicopter Serial No:</b> _____                 |
| <b>Address:</b> _____         | <b>Helicopter Total Time:</b> _____                |
| _____                         | <b>Date Complete:</b> _____                        |
| _____                         | <b>Location:</b> _____                             |
| <b>Phone:</b> _____           | <b>Wiring Correct Yes / No (Circle One)</b>        |
| <b>E-mail:</b> _____          | <b>Wiring Repaired Yes / No / N/A (Circle One)</b> |

This bulletin is complete: \_\_\_\_\_  
 (Signature)

\_\_\_\_\_

(Print Name)

\_\_\_\_\_

(Title)

Comments: \_\_\_\_\_

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