



Technical Service Bulletin: TSB260002
HGJBB Aftermarket Ignition Coil and Relay

Released Date: 14-Jan-2026

HGJBB Aftermarket Ignition Coil and Relay

Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- HGJBB Spec A
- HGJBB Spec B

Issue

Symptom:

- When an aftermarket coil is used, due to the unavailability of ignition coil, Part Number A043K694, the generator set does not shut down on command.

Root Cause:

- Absence of a dedicated ground path from the controller to the ignition coil, preventing proper shutdown.

Resolution

Replace ignition coil Cummins Part Number A043K694 or Subaru OEM Part number 278-79450-01 with comparable part, Subaru OEM Part Number 277-79431-01.

To maintain generator set shutdown functionality, add a 5-Pin 40A 12VDC Relay to the ignition coil kill circuit. This relay will provide correct ground signal from the controller for proper spark termination.

Reason for Change

On HGJBB generators, when using Subaru OEM PN 277-79431-01 the ignition coil does **not** receive ground signal needed to terminate spark when the generator is commanded off, causing the unit to continue running. Installing the relay resolves this issue by providing the required ground path to the ignition coil, ensuring proper shutdown when the generator is switched off.

Service Instructions

1. Turn off the HGJBB generator set, Perform LOTO.
2. Remove the door enclosure by twisting the knob to open.

Note: If enclosure needs to be removed for adequate access be mindful of the enclosure tabs at the base pan.



Figure 1, Lock Location to Remove Service Door

3. Replace ignition coil with the replacement Subaru OEM Part number 277-79431-01



Figure 2, Replacement ignition coil photo Subaru OEM Part Number 277-79431-01

4. Install a 5-Pin 40A 12VDC Relay and wiring harness. These parts are to be sourced locally.



Figure 3, Relay Example

5. Connect relay coil to the generator following Table 1, example shown in Figure 4.

Table 1, Relay coil wire connections				
Number Designation	Action	Description		Color Designation
1	Connect	Relay Coil Wires (#85 and #86 wires)	to P1-24 and ground	Black and white wires
2	Connect	Relay common (#30) wire	to chassis ground	Red wire
3	Disconnect	controller (P1-4) wire	from Ignition kill wire	Black wire
4	Connect	Closed contact (#87A) wire	to Ignition kill wire	Yellow wire
5	Place	electrical tape	to controller (P1-4) wire	White wire
6	Place	electrical tape	to relay blue (#87) extra wire	Blue Wire

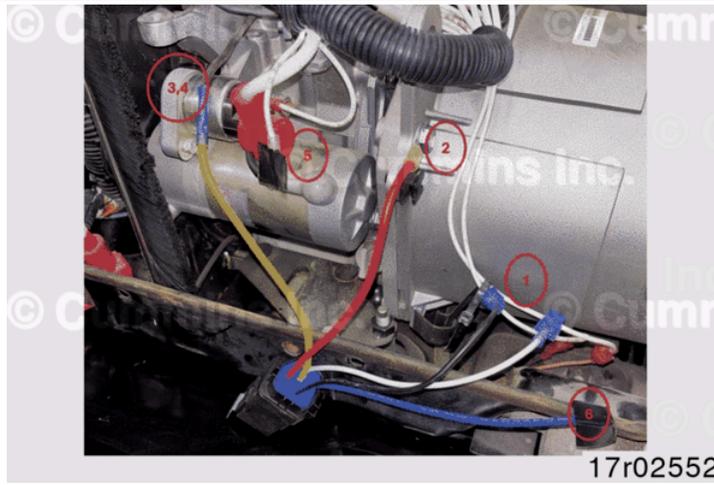


Figure 4, Example of relay coil wire connected to generator

Service Parts Availability

Service parts are available. See Table 2 for part numbers.

Table 2, Service Parts

Part Description	Existing Part Number	Obsolete	Superseded	New Part Number
Ignition Coil	A043K694	-	-	(OEM) 277-79431-01
4-Pin 40A 12 VDC Relay	N/A	-	-	-

Document History

Date	Details
2026-1-8	Module Created

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