

# Hot Rod Daycare

## 3-Relay Power Distribution Board

### Installation Guide

Version 1.1 - November 2025

"We're not just a garage — we're a playground for cars."

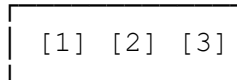
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### 1. Overview

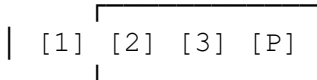
The Hot Rod Daycare 3-Relay Power Distribution Board supports up to three 12V relays rated for 40 amps each, with a total board capacity of 100 amps. It's ideal for fuel pumps, cooling fans, solenoids, or lighting circuits. Each board is hand-built and tested in Winfield, Kansas for durability and reliability.

### 2. Terminal Layout Diagram

Input Terminals:



Output Terminals:



1 → Relay 1 Output

2 → Relay 2 Output

3 → Relay 3 Output

G → Ground (test / trigger)

P → Constant fused +12V

### 3. LED Indicator Behavior

Condition	LED State	Meaning
Relay OFF	OFF	No power to circuit

		(LED inactive even if fuse blown)
Relay ON, fuse good	OFF	Circuit operating normally
Relay ON, fuse blown	ON	Fuse has failed; circuit open, no load power

## 4. Installation Steps

1. Mount the board to a flat, dry surface 6 inches from passengers.
2. Connect the main +12V and ground to the power input lugs.
3. Connect ground trigger inputs (1-3) to switches or ECU outputs.
4. Connect outputs (1-3) to the powered accessories.
5. Verify proper LED function and fuse operation.

## 5. Safety Notes

- Do not exceed 40A per relay or 100A total board capacity.
- Use proper fuses and wire gauge for the load.
- Avoid exposure to moisture or vibration.
- Mount at least 6 inches from vehicle occupants.
- Secure all wiring and connections properly.
- Inspect fuses and relays periodically for wear or corrosion.