

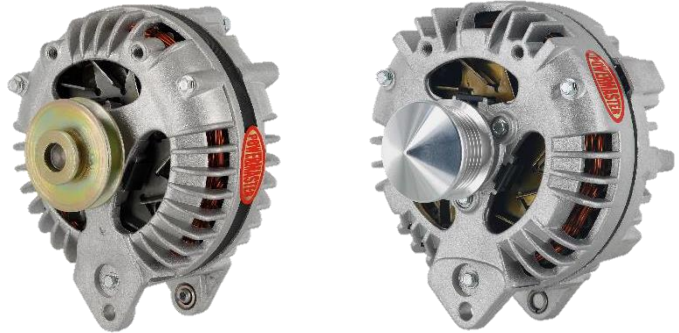


Tech Dept.
(630) 957-4019

Tech@powermasterperformance.com

WIRING INSTRUCTIONS

Chrysler Roundback/Squareback Alternator (OE External Regulator ONLY)



Note: For best performance we recommend using a Solid State Electronic voltage regulator.

“Roundback”

Charge Post Size
1/4 - 20

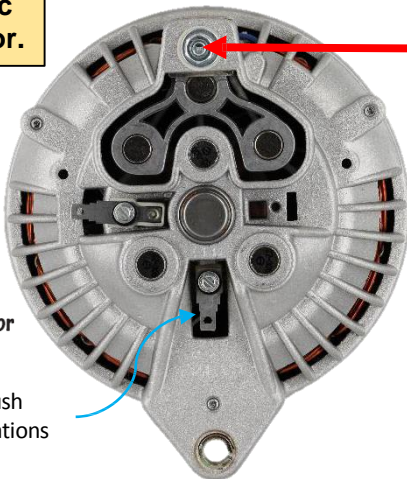
“Squareback”

Use OE Harness

F(1) green

F(2) jumper to Black (B-)

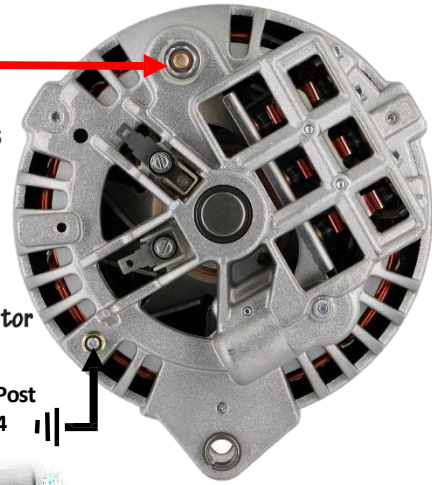
Use with External Regulator



Use OE Harness

F(1) blue
F(2) green

Use with External Regulator



Note: Ground this brush for single field applications

Ground Post
10 - 24

BATTERY + ← OR

BATTERY + ON
STARTER SOLENOID



Disconnect Battery Negative (-)

READ ALL INSTRUCTIONS IN BOX!

Charge Wires:

95 Amp Alt. use 8 gauge up to 6 ft.

Alternator Ground: Many mounting brackets are powder/clear coated, painted, or plated resulting in poor grounding. **ALL** alternator and bracket mounting points **MUST** be bare metal.

Battery must have a clean ground to engine block.

Wire Connections: Be sure all terminals are crimped securely, and connections are clean and tight.

Warning: Alternator can be damaged during pulley changes without the proper tools.

Belt Tension: Inspect belt for signs of cracking or glazing. Replace belt/tensioner if needed. **A loose belt will cause intermittent charging and generate excessive heat resulting in premature unit/bearing failure.**

A fully charged battery is at least 12.6V, not 12.0V. A weak/defective battery will cause premature failure. **Never disconnect the battery with engine running!** This causes voltage spikes that will damage the alternator.

DO NOT EXCEED 18,000 ALTERNATOR SHAFT RPM
(See Catalog pg.45 for more info)

FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID YOUR WARRANTY

Warranty void if unit is soaked in Oil or Mud



WIRE! RIGHT!

The Powermaster Cables are made up of hundreds and even thousands of strands of **pure copper** wire. This ensures that more current can be transferred efficiently with less heat build-up and loss.

The cables meet American Wire Gauge specs and are **made in the USA** and are finished with machine crimped ring lug terminals.

- *Fine strands of pure, oxygen-free copper wire*
- *Extremely flexible for easy routing*
- *Durable sleeve designed for underhood environments*
- *Available in 0-8 gauge diameters from 1-12 feet lengths*
- *Hydraulically terminated eyelet terminals*

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TECH@POWERMASTERPERFORMANCE.COM



Custom Charge & Ground Cables

No matter what you're working on, we have a charge and ground cable available! Below are the different lengths and gauges of cable available. Each cable is finished with a 1/4" or 5/16" ring lug while ground cables feature a 5/16" and 3/8" combination.



| Red Charge Wire | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 10' | 12' |
|---|-------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| 8-Gauge, 1/4" and 5/16" Terminals Installed | | 1-582-130 | 1-583-130 | 1-584-130 | 1-585-130 | 1-586-130 | 1-587-130 | 1-588-130 | | |
| 6-Gauge, 1/4" and 5/16" Terminals Installed | | 1-562-130 | 1-563-130 | 1-564-130 | 1-565-130 | 1-566-130 | 1-567-130 | 1-568-130 | 1-5610-130 | 1-5412-130 |
| 4-Gauge, 1/4" and 5/16" Terminals Installed | | 1-542-130 | 1-543-130 | 1-544-130 | 1-545-130 | 1-546-130 | 1-547-130 | 1-548-130 | 1-5410-130 | 1-5412-130 |
| 2-Gauge, 1/4" and 5/16" Terminals Installed | | 1-522-130 | 1-523-130 | 1-524-130 | 1-525-130 | 1-526-130 | 1-527-130 | 1-528-130 | 1-5210-130 | 1-5212-130 |
| 0-Gauge, 1/4" and 5/16" Terminals Installed | | 1-502-130 | 1-503-130 | 1-504-130 | 1-505-130 | 1-506-130 | 1-507-130 | 1-508-130 | 1-5010-130 | 1-5012-130 |
| 8-Gauge, 5/16" Terminals on both ends Installed | | 1-582 | 1-583 | 1-584 | 1-585 | 1-586 | 1-587 | 1-588 | | |
| 6-Gauge, 5/16" Terminals on both ends Installed | | 1-562 | 1-563 | 1-564 | 1-565 | 1-566 | 1-567 | 1-568 | 1-5610 | |
| 4-Gauge, 5/16" Terminals on both ends Installed | | 1-542 | 1-543 | 1-544 | 1-545 | 1-546 | 1-547 | 1-548 | 1-5410 | 1-5412 |
| 2-Gauge, 5/16" Terminals on both ends Installed | | 1-522 | 1-523 | 1-524 | 1-525 | 1-526 | 1-527 | 1-528 | 1-5210 | 1-5212 |
| 0-Gauge, 5/16" Terminals on both ends Installed | | 1-502 | 1-503 | 1-504 | 1-505 | 1-506 | 1-507 | 1-508 | 1-5010 | 1-5012 |
| Black Ground Wire | 1' | 2' | 3' | | | | | | | |
| 8-Gauge, 5/16" and 3/8" Terminals Installed | 1-781 | 1-782 | 1-783 | | | | | | | |
| 6-Gauge, 5/16" and 3/8" Terminals Installed | 1-761 | 1-762 | 1-763 | | | | | | | |
| 4-Gauge, 5/16" and 3/8" Terminals Installed | 1-741 | 1-742 | 1-743 | | | | | | | |
| 2-Gauge, 5/16" and 3/8" Terminals Installed | 1-721 | 1-722 | 1-723 | | | | | | | |
| 0-Gauge, 5/16" and 3/8" Terminals Installed | 1-701 | 1-702 | 1-703 | | | | | | | |
| Ground Strap | 1' | | | | | | | | | |
| Ground Strap, 1" wide, 1' long, 5/16" and 3/8" Terminal Installed | 1-711 | | | | | | | | | |
| | | CHARGE WIRE LENGTH | | | | | | | | |
| AMP LOAD | 1'-6" | 7'-13" | 14'-20" | | | | | | | |
| 50-100 | 8g | 6g | 4g | | | | | | | |
| 100-150 | 6g | 4g | 2g | | | | | | | |
| 150-220 | 4g | 2g | 0g | | | | | | | |
| 220+ | 2g | 0g | 1/0g | | | | | | | |

! WARNING: Cancer or Reproductive Harm
www.P65warnings.ca.gov