

Electrical and Hitching Requirements.

Trailer Wiring Tips

Trailers are required to have at least running lights, turn signals and brake lights. To provide the power and a hook-up for these, the tow vehicle's wires are tapped into. This is accomplished through either a T-One connector (if available for your vehicle) or through hardwiring. The T-One Connector is pre-wired to a 4-pole flat that can adapt to a 6 or 7 way round connector. Hardwiring requires the installer to locate the proper wires in the tow vehicle. To help in this task consult the owner's manual or the chart at the bottom of the page.

Connectors

Various connectors are available from four to seven pins to allow for the transfer of power for the lighting as well as auxiliary functions such as electric trailer brake control, backup lights, etc. Choose a connector that has the required number of pins for the functions required. Also, mount the connector on the vehicle. Not only will it display a clean look, but a mount is helpful in avoiding the potential problems associated with leaving a connector dangling.

4-Way Connectors

4-Way connectors are available allowing the basic hookup of the three lighting functions (running, turn, and brake) plus one pin is provided for a ground wire.



4-Way Flat Trailer Connector -
*Most Common



4-Way Flat Vehicle Connector

7-Way Connectors

Besides the three main lighting functions, additional pins for auxiliary power, trailer battery charging etc. are available.

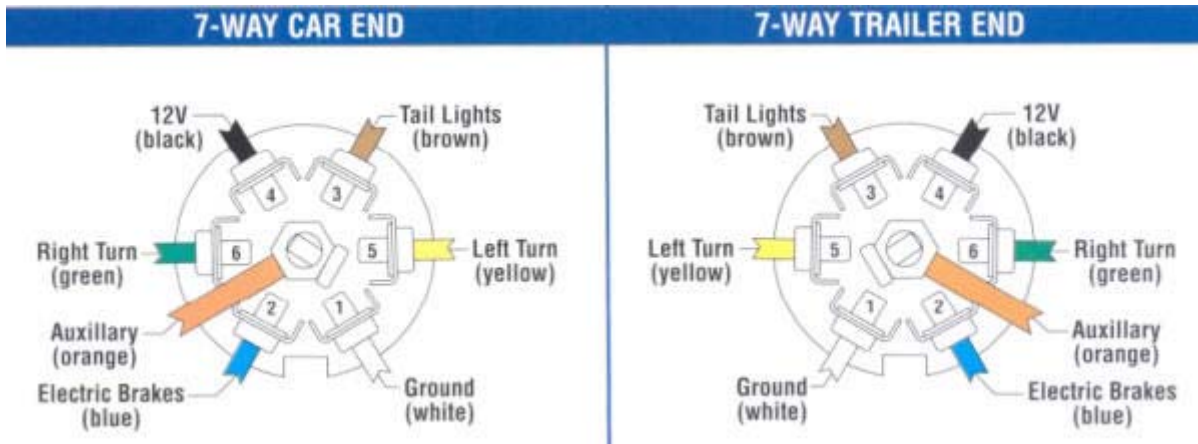


7-Way Trailer End

7-Way Truck End

7-Way Plastic Connectors.

The Diagram below shows the proper way to wire the connector to your trailer or vehicle.



How to Wire 4, 5 or 6 Way Connectors

| Wire Color By Manufacturer | | | | | | | | |
|----------------------------|--|-----------------|------------------------|---------------------------------|----------------------|------------------------------|------------------------|------------------------------|
| Vehicle Manufacturer | | | | | | | | |
| Dual Purpose Bulb System | | | | | | | | |
| Wire Function | Wire Color | GMC | Ford | Chrysler | Jeep | Toyota | Honda | Mazda |
| RIGHT TURN & BRAKE LIGHTS | Green | Green | Orange W/ Blue Stripe | Brown | Brown | Green W/ Yellow Stripe | Green W/ Yellow Stripe | Green W/ Yellow Stripe |
| LEFT TURN & BRAKE LIGHTS | Yellow | Yellow | Lt Green Orange Stripe | Dk Green | Grey W/ Black Stripe | Green W/ Black Stripe | Green W/ Blue Stripe | Black Stripe |
| TAIL LIGHTS | Brown | Brown | Brown | Black W/ Yellow Stripe or Black | Blue | Red W/ Green | Red W/ Black Stripe | Green or Black Stripe |
| GROUND | White | Black | Black or Grey | Black | Black & Black | Black or White | Black | Black |
| Single Purpose Bulb System | | | | | | | | |
| BRAKE LIGHTS | Use Converter | Pink or Lt Blue | Red W/ Green Stripe | White | Blue W/ Black Stripe | Green W/ Red or White Stripe | Green W/ White Stripe | Green or Green W/ Red Stripe |
| BACKUP LIGHTS | Red | Lt Green | Black W/ Pink | Violet | Brown | - | - | - |
| ELECTRIC TRAILER BRAKES | Connect To Blue Wire From Brake Controller | | | | | | | |

Vehicle manufacturers have intermittently changed wiring colors over the years.

It is recommended that a circuit tester be used on the tow vehicles wiring harness to verify that the correct wire has been located for the proper function.