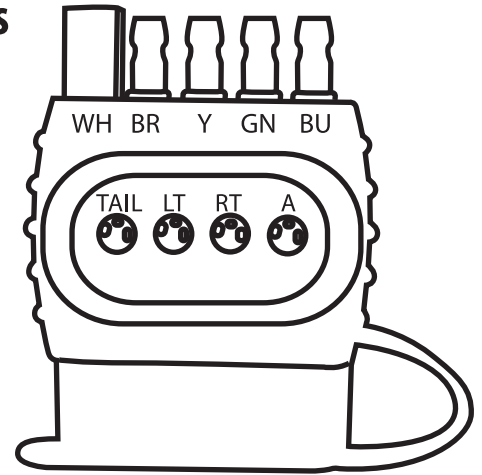


## 4 OR 5 PIN UNIVERSAL HARNESS TESTER

### Quickly Troubleshoot Tractor Trailer Electrical Circuits

Verify the vehicle is wired to the universal standard (see Chart on Back). Plug tester into vehicle connection. The LEDs on the tester (17098) correspond with the vehicle circuit. Use this tester to verify continuity and configuration from the vehicle. If the LED does not light when the circuit is powered up, there is a faulty wiring issue between the connector and fuse box. Optional: Leave plugged in line with trailer for easy visual inspection.



WIRE COLOR BY 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/	Green w/ Black Stripe	Green w/ Black Stripe	Black Stripe Blue 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	All Connect To Blue Wire From Brake Controller							

Vehicle manufacturers have intermittently changed wiring colors over the years. This table should NOT be taken as "Gospel". You should always double check your connections and use the circuit testers to identify that circuits between the Truck and Trailer correspond. If you have any questions regarding the trailer circuitry on the vehicle side, we suggest you consult the manufacturer of your vehicle.

#### FOR A WARRANTY CLAIM, RETURN THE ITEM TO:

Warranty Repair, Innovative Products of America, 1674 Kirkwood Pike, Kirkwood, PA 17536 717-529-4000 ph /717-529-0118 fax

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[www.ipatools.com](http://www.ipatools.com)

**888-786-7899**