



# **EZ-R7 T-Plug**

**Universal 7-Pin  
Heavy Duty Plug**  
For Vehicles equipped with  
7-Way Trailer Connectors

## **Installation Instructions *and* Product Warranty**

**Professional Installation Required**



## **Thank you for purchasing our EZ-U7PHD trailer plug!**

Your choice displays your recognition and value in the utmost in safety and reliability. This is a superior designed, quality crafted product that will provide years of trouble-free service if properly installed & maintained.

It is important that care and attention to detail be taken during the installation of this plug in order to realize all of its benefits. The exceptional quality of this plug will still not overcome a poor installation, or dysfunctional trailer or vehicle wiring.

We congratulate you on your purchase!

- EZ Connector

## **Notice!**

**There are certain steps in these instructions that if skipped, will require you to back-up & cut connections you have already made. Please follow these instructions carefully. Specifically, ensure that you:**

- 1. Feed the Socket cable through the Mounting Bracket before connecting any of the wires.**
- 2. Always slide heat shrink tubing, both large and small onto wires before making any wire connections**

## VEHICLE INSTALLATION

### Installing the mounting bracket

1. Install the EZ Connector mounting bracket to the vehicle's frame or bumper, as close to the center of the vehicle as possible. This will allow the trailer plug to harmlessly pull from the socket if it is inadvertently left attached to the vehicle as you drive away



**Figure 1**

1. Bend the longer of the two small plugs back along the cable.
2. Start feeding the cable through the bracket starting with the shorter of the two small plugs as shown in figure 1.
3. Locate the vehicle's factory OEM trailer light wiring harness. The harness will be connected to the vehicle's 7-way trailer connector which is mounted to the hitch or bumper.
4. Behind the bumper, separate the 7-Way connector from the vehicle wiring harness by gently pulling the connector and harness apart while holding down on the connector locking latch.

**Note:** Take care not to damage the locking tabs or your connector will not snap closed as you install your new plug.

5. Position the EZ Connector T-Plug between the vehicle wiring harness and the back of the 7-way connector socket attached to the bumper.
6. Attach the longer plug into the vehicle wiring harness and the shorter plug onto the back of the 7-way socket. Press firmly together until the locking tabs engage.
7. Attach the EZ Connector socket to the bracket with the nuts and bolts included.

## **TRAILER INSTALLATION**

**Always slide heat shrink tubing onto wires before making any wire connections.**

### **Installing the plug holder:**

1. Install the plug holder in a high location on the trailer.
2. Choose a location that will be within easy reach, yet **NOT** susceptible to being submerged in water (as this holder has air-venting holes and is not water tight).

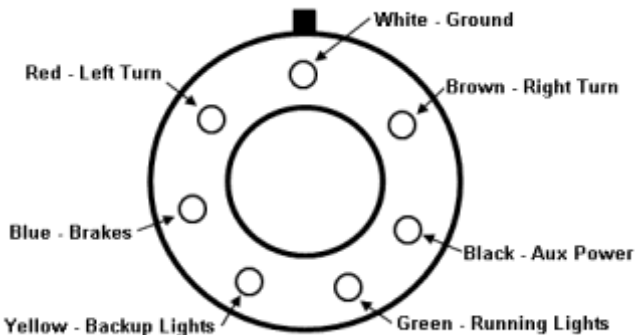
### **Installing the plug and wiring:**

1. Determine the desired length of the cable by holding it up where it will be mounted on the trailer and marking it. Error to the long side when cutting your cable. Excess cable can always be coiled and tied whereas too short of a cable is unworkable.
2. Strip 1½" – 2" of the insulation off of the cable, then strip the individual wires 5/16" – 3/8".
3. Determine the trailer's wiring configuration. Using a 12-volt power source apply voltage to all wires individually to determine which circuits correspond to each wire color. Write down your findings.
4. Place the piece of large (¾") heat shrink tubing over the cable and slide it up out of the way.
5. Stagger cut the lengths of the individual wires so that all the butt connectors will not be together which could cause a large knot preventing the large shrink tube from sliding over the connections
6. Cut long piece of ¼" shrink tubing into 7 equal pieces. Place one over each of the 7 wires prior to making any connections.
7. Match up each of the wires and pair-by-pair place the stripped ends into opposite sides of an electrical Butt Connector. Use the larger Butt Connectors for the larger diameter wires (white, blue and black). Crimp the connector well, and pull-test to ensure integrity.

8. After all wires are connected and crimped, slide each of the small heat shrink tubes back over the connections and apply heat to the tubings.
9. Then slide the large heat shrink tubing back over the entire connection covering all the connected wires (both vehicle and plug). Apply heat until the tubing has shrunk down around all of the wire connections forming a water tight seal.
10. Secure the cable to the trailer using the zip-tie strap to keep any pull-strain off of the connected wires and to adjust the cable slack to the vehicle.

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**To ensure compatibility with all other EZ Connector installations, match the wiring shown in Figure 3.**



**Figure 3**  
**Looking into the Vehicle Socket**  
(The trailer plug is exactly the opposite so they match when plugged together)

**For a professional installation, you will need to:**

1. Not compromise the integrity of the vehicle or trailer wiring.
2. Ensure that the electrical connections are strong and protected from the elements and corrosion.
3. Comply with all applicable codes and regulations.
4. Correctly wire to properly transmit the appropriate signal to the corresponding device (lights, brakes, turn signals, etc.).

**Operation:**

1. To insert the plug into the vehicle socket, first remove the weather tight Dummy Plug from the socket with a straight pull. Remove the plug from the mounted holder pulling straight out.
2. Insert the plug into the socket and rotate until the alignment index lines up for connection.
3. Insert the Dummy Plug into the plug holder mounted on the trailer to keep it clean as well as keeping the Dummy Plug from being lost.
4. Check operation of all lights and accessories before moving vehicle.

**Maintenance:**

1. Periodically lubricate the o-ring seals with a silicone or di-electric lubricant.
2. Replace O-Rings if damaged or missing using a 028 O-Ring.
3. To keep components dirt and water free, keep sockets and plugs (trailer plug or dummy plug) mated at all times.
4. If the interior of the socket or plug becomes wet during coupling (particularly with salt water) wipe down before re-coupling.
5. In the event that metal shavings attach to the magnet, place a cloth or plastic bag over the magnet of one of the other components and move it near the contaminated magnet to attract the shavings. Then separate the magnets and remove the bag with the shavings from the second magnet.

**Low Voltage Applications Only!**

This plug is designed for use in applications requiring no more than 36 volts. Applying greater voltages may damage the plug and/or other equipment and may result in Injury.

**Warning – Strong Magnets**

The magnets used in this plug exert a strong magnetic force. Take care when handling any of the plug's components.

- Keep fingers clear as there is the possibility of being pinched as the plug engages.
- When pulling the plug or dummy plug from its socket, clear the area around the plug of sharp objects as your hand may recoil as the magnets release.
- Keep jewelry, such as earrings, and other loose metallic items away from the plug as they may attract and stick to the plug.

**Warning – Plastic Packing Materials**

Keep the packing materials used with this product away from small children to prevent suffocation or choking.

**6. PRODUCT RETURN PROCEDURES**

A. No Product shall be returned without prior EZ CONNECTOR, INC. Return Merchandise Authorization (RMA) obtained by contacting our customer service phone line or email listed below. Inoperative or malfunctioning Products must be returned by Customer in protective material, securely packaged to prevent damage in transit with a copy of the purchase receipt, and shipped via prepaid UPS to:

EZ CONNECTOR, INC.

Attn: RMA #####

1010 E Walnut Ave

Tulare, CA 93274

Phone: (559) 685-9184

Customerservice@EZconnector.com

a UPS Return Label prepaid by EZ CONNECTOR, INC. will be sent to you by email or US mail.

B. EZ CONNECTOR, INC. will return replaced Product via surface freight to Customer's location. The cost of expedited freight, if requested, shall be at Customer's expense. Product found to be operable after testing (i.e. no trouble found), may be subject to shipping and handling charges.

## PRODUCT WARRANTY AND DISCLAIMER

### LIMITED WARRANTY

A. EZ CONNECTOR, INC. warrants the following:

1. That the Product is free from defects in material and workmanship.
2. When professionally installed and used in accordance with the instructions supplied, the Product will operate substantially in the function of low voltage electrical continuity for lights and brakes between a trailer and its towing vehicle.

B. The above Product has a limited lifetime warranty on the original installed vehicle/trailer to the original non-commercial end user purchaser of the Product and a 5 year commercial warranty, provided the product is registered along with proof of purchase, to the manufacturer within 30 days of purchase. Warranty does not apply to adapters

C. EZ CONNECTOR, INC.'s sole liability under this warranty shall be:

1. To replace the defective Product component(s) in accordance with EZ CONNECTOR, INC.'s return procedures, or
2. At EZ CONNECTOR INC.'s sole option, to refund the purchase price upon return of the defective item. The warranty period for replaced Products shall be the remainder of the original warranty period for the replaced item.

D. EZ CONNECTOR, INC. shall incur no obligation under this warranty if:

1. If EZ CONNECTOR, INC.'s verifiable tests disclose that the alleged defect is not due to defects in material or workmanship; or
2. If, in EZ CONNECTOR, INC.'s sole judgment, the Product has been subjected to misuse or neglect, alteration, damage or improper installation or maintenance.

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**EZ-R7  
T-Plug  
Made in the USA**

**Protected by  
US Patents #5,172,751; #5,174,362; #6,478,619  
And Foreign Patents**

**EZ Connector, Inc., Tulare, CA USA**