



## **43935 – Vehicle Wiring Installation Instructions**

### ***Kia Optima 2007 - 2009***

1. Open rear trunk lid. Temporarily remove the rear threshold plate. Partially remove the felt trunk liner behind the taillights.
2. On the driver and passenger sides of the vehicle, locate the vehicle's taillight wiring harness. The taillight wiring harness will have a connection point, on both sides, matching the ends of the Hopkins® T-Connector. Separate this connector, being careful not to break the locking tabs. All connector surfaces should be clean and free of dirt.
3. On the driver's side, insert the T-Connector end with the yellow wire between the vehicle wiring connectors and lock into place. Be careful not to damage the locking tabs and be sure that connectors are full inserted with locking tabs in place.
4. Route the T-Connector end with the green wire to the passenger's side behind the panels and along the threshold. Repeat step 3 using T-Connector containing the green wire.
5. Route the wire with the 4-flat connector to near center of door latching mechanism.
6. Locate a suitable grounding point on the vehicles frame for the ring terminal on the white wire which is attached to the 4-way flat connector. Clean dirt, paint and rust proofing from area. Drill a 3/32" hole and secure white wire with ring terminal using self tapping screw (provided). Verify what is behind any surface prior to drilling to avoid damage to the vehicle. Do not drill into any exposed surfaces.
7. Reinstall the threshold plate, felt trunk liner and any other items removed during installation. Be careful to avoid any areas that could cut or pinch the wire.
8. Route the 4-way flat harness to either side of the receiver hitch and secure it with ny-ties.
9. Attach the 4-way flat dust cover (provided) to the 4-way flat connector.
10. Apply a small amount of grease (provided) to the 4-way flat terminals to prevent corrosion.
11. Plug completed wire harness into the trailer 4-way flat connector.
12. Test all functions with the engine running to ensure proper operation.

#### **TIPS:**

Grease applied to the wiring terminals on a regular basis will help prevent corrosion.

Always unplug boat trailer connector before backing trailer into the water.

**Need Help? (English Only)**  
**1-800-835-0129**  
**techsupport@hopkinsmfg.com**  
**www.hopkinstowingsolutions.com**