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Universal Brake Light Flasher

The Universal Rider West Brake Light Flasher will work on any vehicle and is rated at 10 amps. This rating is suitable for vehicles that have multiple, incandescent bulbs as the center brake light. This brake light flasher can also be used on motorcycles where the brake and taillight are in the same physical bulb. Read the instructions all the way through before cutting anything so you know what to expect.

The brake light flasher makes the brake light flash for a few seconds, and then it stays on for as long as the brake is applied. The cycle repeats every time the brake is applied.



Figure 1. Brake light flasher for center brake light

If you have any questions about this kit, contact support@riderwest.com.

A full color version of this document can be viewed or downloaded from www.riderwest.com.

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What you get

- (1) Brake light flasher assembly with wires, bullet connectors, and double-sided tape attached
- (2) Red male bullet connectors, crimp-type
- (2) Red female bullet connectors, crimp-type
- Detailed instructions (what you're reading now)

What you need

To install the brake light flasher you need:

- Wire cutter/stripper
- Crimping tool (for standard, automotive-type connectors)
- T-20 Torx wrench (for K1200LT motorcycle)
- Misc. screwdrivers for disassembling the vehicle parts to gain access to the brake light wires (vehicles other than K1200LT motorcycle)

Installation on a BMW K1200LT Motorcycle

1. Use the T-20 Torx wrench to remove the plastic cover (5 screws—see Figure 2) to the compartment beneath the mirror inside the trunk.



Figure 2. Remove 5 screws to remove plastic cover

2. Remove the wire from underneath the plastic holder and separate the two halves of the connector going to the brake light.
3. Cut off both BMW connectors (close to the connector) and strip about $\frac{1}{4}$ " of insulation off the ends of the wires. Twist the loose strands of wire together. To make it a little easier to attach the connectors, you can cut carefully back the black insulation around the wires coming from through the rubber grommet.
4. On the wires going through the rubber grommet in the trunk to the brake light, crimp a red female bullet connector to the purple (ground) wire and a red male bullet connector to the orange (hot) wire.

5. On the remaining wires, crimp a red male bullet connector to the brown (ground) wire and red female bullet connector to the gray/yellow (hot) wire (see Figure 3).



Figure 3. Bullet connectors installed

6. Before connecting the Brake Light Flasher, loosely connect the connectors together and see if you brake light works normally. This test makes sure you crimped the connectors properly. If your brake light does not work, check the connectors for proper crimping. When your brake light works normally, continue with the next step.
7. Connect the white and green wires from the brake light flasher to the wires going to the brake light.
8. Connect the red and black wires from the brake light flasher to the remaining (power) wires. Tuck the wires under the plastic holder.
9. Before sticking the brake flasher to the truck with the double-sided tape, test your brakes and make sure they are working as they're supposed to (flashing for about two seconds and then staying on). If you have any problems, double check that you installed the bullet connectors on the correct color wires.

10. Remove the backing from the double-sided tape and stick the brake light flasher box to the top of the trunk, horizontally to the right of the rubber grommet (see Figure 4). Tuck the wires in as shown.

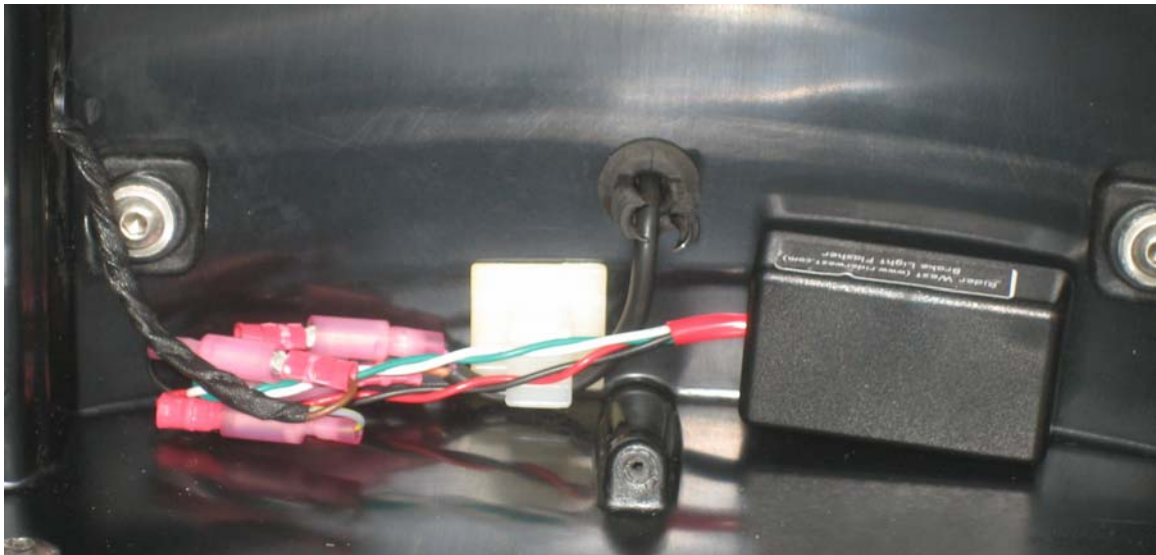


Figure 4. Flasher installed

Note: If the brake light flasher should fail, or if you decide you don't want it operating for any reason, you can unplug it and connect the bullet connectors from the brake light to the bullet connectors going to the "brake power." This will restore normal factory operation of the trunk brake light.

Installation on Vehicles with a Center Brake Light

1. Disassemble what ever is necessary to gain access to the wires going to the center brake light. Use a tester to determine which wire is "hot" and which one is ground.
2. Cut both wires going to the brake light in a convenient place. Strip about $\frac{1}{4}$ " of insulation off of the four wire ends and twist the loose strands of wire together. You now have a hot wire and a ground wire going to the brake light and a hot wire and a ground wire going back to the brake switch circuit (wiring harness).
3. On the hot wire going to the brake light, crimp a red male connector.
4. On the hot wire going back to the brake switch, crimp a red female connector.

5. On the ground wire going to the brake light, crimp a red female connector.
6. On the ground wire going back to the brake switch, crimp a red male connector.
7. Before connecting the Brake Light Flasher, loosely connect the connectors together and see if your brake light works normally. This test makes sure you crimped the connectors properly. If your brake light does not work, check the connectors for proper crimping. When your brake light works normally, continue with the next step.
8. Connect the white and green wires from the brake light flasher to the wires going to the brake light. The white wire should mate with the hot wire going to the brake light—the green wire should mate with the ground wire going to the brake light.
9. Connect the red and black wires from the brake light flasher to the wires coming from the brake switch circuit. The red wire's connector should mate with the hot brake light wire—the black wire's connector should mate to the brake light ground wire.
10. Before attaching the brake flasher with the double-sided tape, test your brakes and make sure they are working as they're supposed to (flashing for a few seconds and then staying on). If you have any problems, double check that you installed the bullet connectors on the correct color wires.
11. Remove the backing from the double-sided tape and attach the brake light flasher box in a convenient location.
12. Reassemble anything that you took apart so you could get to the wires.

Note: If the brake light flasher should fail, or if you decide you don't want it operating for any reason, you can unplug it and connect the bullet connectors from the brake light to the bullet connectors going to the brake switch. This will restore normal operation of the brake light.

Installation on Motorcycles with a Combination Taillight/Brake Light Bulb

1. Disassemble what ever is necessary to gain access to the hot wire going to the brake light bulb (don't be concerned with the ground connection right now).
2. Cut the wire going to the brake light in a convenient place. Strip about $\frac{1}{4}$ " of insulation off the two free ends and twist the loose strands of

- wire together. You now have one hot wire going to the brake light bulb and one hot wire going back to the brake switch circuit.
3. On the hot wire going to the brake light bulb, crimp a red male connector.
 4. On the hot wire going back to the brake switch, crimp a red female connector.
 5. Connect the white wire from the brake light flasher to the wire going to the brake light bulb.
 6. Connect the red wire from the brake light flasher to the wire coming from the brake switch circuit.
 7. Connect either the black or green wire to any convenient grounding point. (You can cut off the bullet connector, strip and twist together the wire, and secure under a screw. Extend with additional wire if necessary.)
 8. Before attaching the brake flasher with the double-sided tape, test your brakes and make sure they are working as they're supposed to (flashing for a few seconds and then staying on). If you have any problems, double check that you connected the wires correctly.
 9. Remove the backing from the double-sided tape and stick the brake light flasher box in a convenient location.

Note: If the brake light flasher should fail, or if you decide you don't want it operating for any reason, you can unplug it and connect the bullet connector from the brake light to the bullet connector going to the brake switch. This will restore normal operation of the brake light.