

PART NUMBER: **5165**

This is Jeep Specific or Universal product that requires minor modifications for 6x5.5 or 6x139.7 lug pattern.

The Body Armor 4X4 3rd Brake Light Ring is easy to install using hand tools and simple electrical wiring. Read through these entire instructions before you begin. If you are not confident in the installation please seek the assistance of a professional installer.



BEFORE YOU BEGIN

Open the box and inspect the contents. Check each item against the component list below. If anything is missing or damaged, contact Body Armor 4X4 customer service.

COMPONENTS:

- | | |
|----------|---------------------------------------|
| 1 | LED 3RD BRAKE LIGHT RING |
| 2 | WIRE TAP SPLICER RED 22-18 AWG |

STEP 1: PARK AND SECURE THE VEHICLE

Park the Jeep on a flat, level service and set the parking brake. Wear eye protection from this point forward.

STEP 2: REMOVE SPARE TIRE

Use your vehicle's spare tire wrench to remove the lug-nuts from the spare tire. With the help of a friend, lift the tire from the tire carrier and set it aside. **For Jeep application (Pages 1-2) other applications (Page 3). Some steps from pages 1-2 may apply to universal applications. It is up to the installer to determine these steps.**

STEP 3: INSTALL THE LED 3RD BRAKE LIGHT RING

Place the **3RD BRAKE LIGHT RING** onto the spare tire carrier, passing the lug studs through the slots in the ring. There are no fasteners to install at this time, as the spare tire will hold the ring in place after it is re-installed.



PIC 01: Remove the OE hinge bolts.

STEP 4: MAKE THE ELECTRICAL CONNECTIONS

Use the provided **WIRE TAP SPLICERS** to tap the 3rd Brake Light Ring's wiring pigtail into the Jeep's OE 3rd brake light wiring harness. On Jeep JK and JL, the cleanest installation is to remove the cover from the back of the OE 3rd brake light tower and make the electrical connections inside, to conceal the connections. On other vehicles it is up to the installer to determine the optimal location to tap into the factory wiring.

In the wiring pigtail attached to the 3rd Brake Light Ring, the black wire is negative, while red is positive. Use a multimeter or consult your vehicle's wiring diagram to determine which wires in the vehicle's OE third brake light wiring are positive and negative.



PIC 01: Make the electrical connections.

Using the supplied Wire Tap Splicers is simple, requiring no stripping of wire insulation. Simply place the wire from the OE harness into the through channel in the splicer, and place the end of the corresponding wire from the 3rd Brake Light Ring's harness into the single-end channel. While holding the wires in place, use pliers to push in the metal blade of the splicer until it is flush with the plastic surface of the splicer body. Finish by snapping the plastic cover into place.

STEP 5: TEST YOUR BRAKE LIGHTS

Test that the LED 3rd Brake Light Ring is operating correctly by having someone push the brake pedal. If the LED lights do not illuminate along with the Jeep's brake lights, check your wiring and make adjustments.



PIC 01: Test the lights.

STEP 6: WIRING CLEANUP

Use zip-ties (not included) to secure any loose wiring. Be careful to leave enough slack to allow for any necessary movement. Replace any covers that were removed in the installation process.

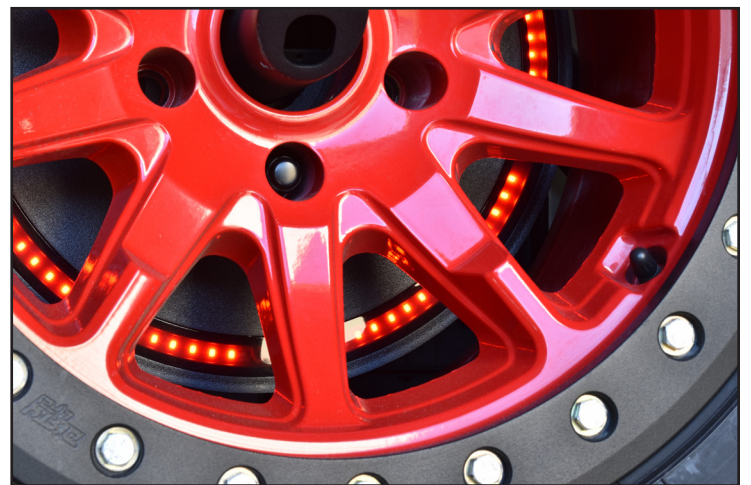
STEP 7: REINSTALL THE SPARE TIRE

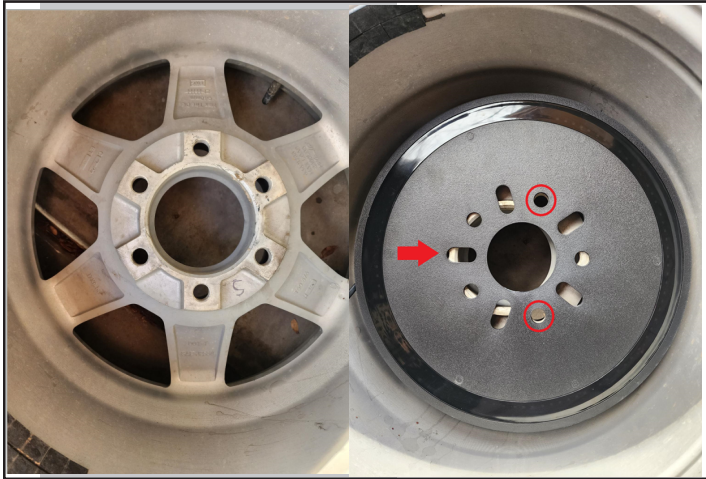
With the help of a friend, lift the spare tire back into place and secure it with the lug nuts.



PIC 01: Reinstall the spare tire.

Congratulations! Installation of the Body Armor 4X4 Door LED 3rd Brake Light Ring is now complete on the Jeep.





PIC 01: Template for 6x5 or 6x139.7 pattern.

Using the appropriate drill bit size for your wheel studs, begin slowly drilling your hole where you had previously marked. It is recommended to use a step drill bit for this process. Simply place the step bit into an existing bolt hole on the Brake Light Ring, take note of where the step bit stops. When drilling your new hole, stop drilling once you hit the same stopping point mentioned previously.

STEP 11: TEST YOUR BRAKE LIGHTS

Test that the LED 3rd Brake Light Ring is operating correctly by having someone push the brake pedal. If the LED lights do not illuminate along with the vehicle brake lights, check your wiring and make adjustments.



PIC 01: Test the lights.

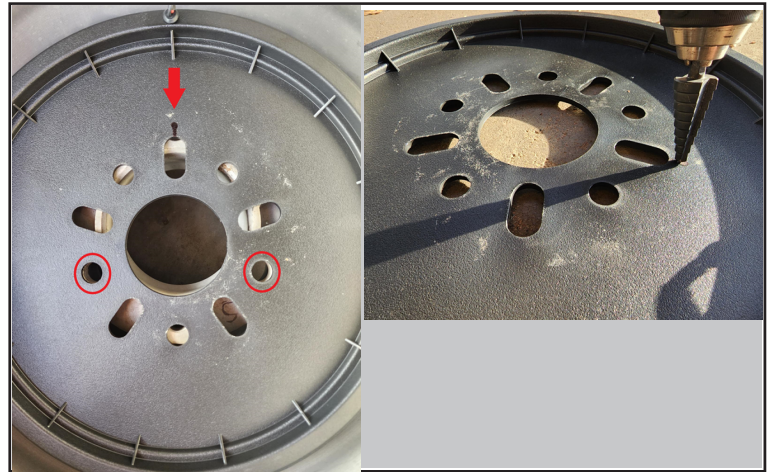
Congratulations! Installation of the Body Armor 4X4 Door LED 3rd Brake Light Ring is now complete.

STEP 8: Template for 6x5 or 6x139.7

Laying your wheel flat on the ground, with the rear of the wheel facing upward toward you. Place the Brake Light Ring over the wheel bolt holes, be sure the wiring is placed where you plan to run it after installing the ring. Align the holes on the Brake Light Ring with the bolt holes on your wheel, leaving 1 hole to be marked and drilled

STEP 9: Drill the hole

PIC 01: Mark the spot and drill.



STEP 10: MAKE THE ELECTRICAL CONNECTIONS

Use the provided WIRE TAP SPLICERS to tap the 3rd Brake Light Ring's wiring pigtail into vehicles circuit. It is up to the installer to determine the optimal location to tap into the factory wiring.

In the wiring pigtail attached to the 3rd Brake Light Ring, the black wire is negative, while red is positive. Use a multimeter or consult your vehicle's wiring diagram to determine which wires in the vehicle's OE third brake light wiring are positive and negative. Using the supplied Wire Tap Splicers is simple, requiring no stripping of wire insulation. Simply place the wire from the OE harness into the through channel in the splicer, and place the end of the corresponding wire from the 3rd Brake Light Ring's harness into the single-end channel. While holding the wires in place, use pliers to push in the metal blade of the splicer until it is flush with the plastic surface of the splicer body. Finish by snapping the plastic cover into place.