

Installation DIY

K5 Optima Store - LED Roof Spoiler

Tools Required:

- Plastic Knife
- Phillips Screwdriver
 - Duct Tape
- Metal Knife/Flat Head Screwdriver
 - Scissors
- Window Cleaner

1. First, clean the upper portion of your rear glass with a window cleaner. I used Windex. It is only necessary to clean the top ¼ as this is where the tape will be applied. Ensure it is clean and dry before moving on.



2. Now, unwrap your roof spoiler. Ensure it is not damaged and the wire is not compromised. Locate the two hooks on each side of the spoiler. These will be important when you mount the spoiler – they must go down and up under the rear glass.



3. Now it's time to mount the spoiler. This is the most difficult part. It is much easier with two people and I highly recommend you get someone to help you to ensure you apply it evenly and correctly the first time, as the tape is very strong once it touches the glass. Peel off the double sided tape. Ensure the wire is hanging away from underneath the spoiler, and that it's *above* the spoiler. (Up near the shark fin/roof) Line up the roof spoiler, ensuring the hooks are down under the glass. Once it's lined up and straight, press down firmly on the spoiler for a few minutes to ensure the tape sticks to the glass strongly. Taking a hair dryer to the spoiler to heat up the adhesive will help it stick firmer – or do it out in the blazing sun. If you apply the spoiler and it isn't straight, quickly rip it off and re-apply it. You don't want to let it sit there for too long if you do happen to make a mistake.



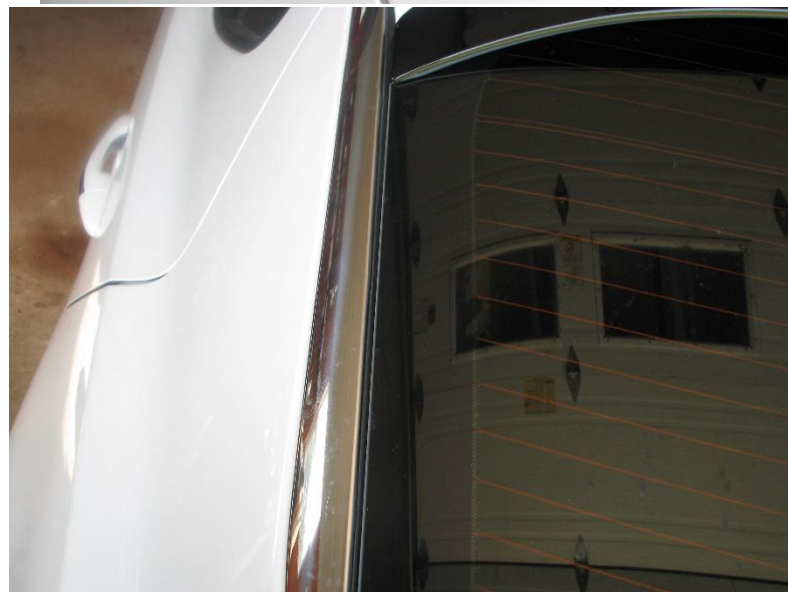
4. Now that the spoiler is mounted, the rest of the installation is smooth sailing. Grab your plastic knife and gently push the wire under the glass. As you push it under and work your way down to the trunk, very gently pull the wire so it sits tight under the glass. This ensures it won't pop up and/or you run out of wire length. At some points it may be difficult to push the wire under the glass – if this happens, turn the wire sideways so it is horizontal instead of vertical. This will give you a little more clearance.



5. Once you get down to the trunk, push the wire underneath the two corner pieces of rubber weather stripping (where they meet). Now, run the wire across the trunk corner piece. Lift up the rubber seal (it will take some force – it's glued on). Run the wire over the metal edge and under the rubber seal. Apply some duct tape where the wire will be sitting, as you do not want the somewhat sharp metal edge to eventually fray and cut the wire.



6. Okay, so now the wire should just be hanging down into the trunk. Before we move on, ensure the wire is tucked away and pull tight (but not too tight that you rip it). As you can see in these pictures, you cannot see the wire anywhere. You CAN see the wire when the trunk is open. Unless you want to start drilling holes, there is no way to avoid this.





7. Now, this is where you have a decision to make. There are 3 different ways to wire this. You can splice it into the stock 3rd brake light, the inner taillight or the outer taillight. The most difficult way would be into the stock 3rd brake light. If you choose to go up to the inner taillight, you will need to extend the wires that came with the spoiler. A quick stop to your local Canadian Tire, Kent, Home Depot, Walmart, etc. would solve that. If you go to the outer taillight, your wire is already dangling right next to it.

I chose to go to the inner taillight because I did not want to do the extra work and hassle to tap into the 3rd brake light, and am planning on doing more wiring mods in the future whereby tapping into the inner taillight may alleviate some frustration in the future.

8. Remove the trunk lid liner. To do this, locate the trunk inner handle. Use your metal knife or flathead screwdriver to pry open the little cover where the slit is. Unscrew the two screws and stow them in a safe spot.



9. Locate the plastic screws that hold the liner in. Remove all of them on the left hand side. Stow these in a safe place. You can now gently pull the liner over the rubber bumpers and trunk latch. There are 5 plastic screws to remove in total. If you find you need more room to work, then remove the plastic screws on the right hand side as well.



^ Picture of the plastic screws removed.

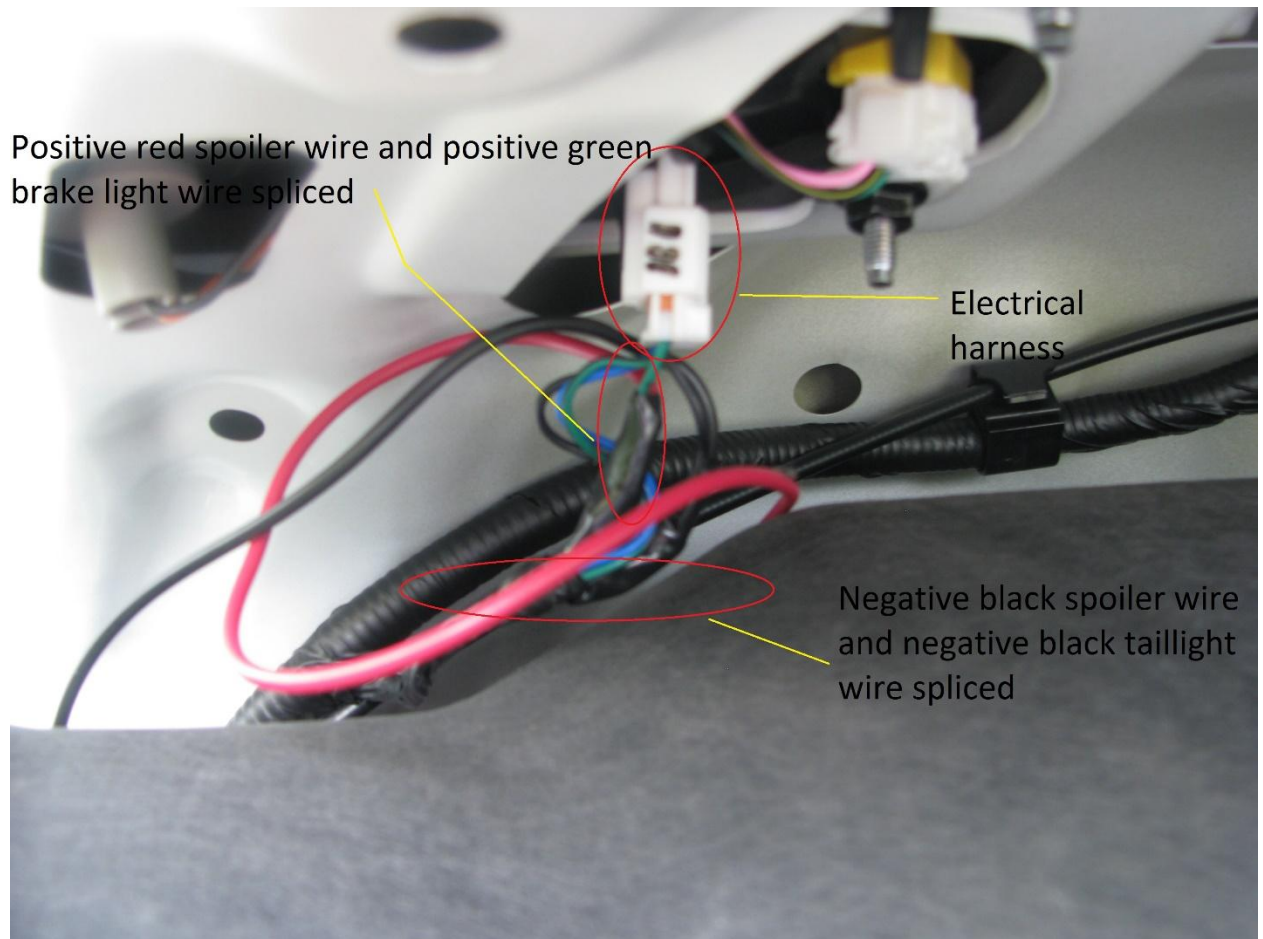


^ Picture of plastic screws removed and trunk liner slide off latch and bumpers.

- 10.** Run the wire up along the trunk hinge until it runs out. At this point, extend the wire by splicing it into another. Use your metal knife or scissors to strip the wire coating. Tape electrical tape around the splice. Continue running the wire up the trunk hinge until you get to the trunk liner.



- 11.** Locate a solid **green** wire (brake light) and one of two black wires (negative grounds). Ensure it is the SOLID green wire and NOT the green wire with a black stripe. Cut both with your scissors. Take the **red** spoiler wire and splice it to the **green** taillight brake light wire. Take the black spoiler wire and splice it with the black taillight ground. Make sure you wrap them generously in electrical tape. It's also important to leave some slack with the wire, as you don't want to rip the wire anywhere when closing and opening the trunk. Test out closing the trunk slowly to ensure this won't be a problem.



12. Have someone press your brake pedal and ensure the roof spoiler is working. If so, great! Tidy up the wires and put the trunk liner back on. If it isn't working, ensure your splices are tight and wired properly. (Again, red spoiler wire goes to solid green brake light wire. Black spoiler wire goes with one of the two black taillight wires [grounds])

Finished Result:







If you have any questions, please feel free to contact us by email anytime to:

Sales@K5OptimaStore.com

Direct link to this product on our site found here: [K5 Optima Store – LED Roof Spoiler](#)

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Big thanks to Kyle “Islander” on the Optima Forums for making this DIY for us.