

STARKEY

PRODUCTS

2013-2014 Ford Mustang Fog Light Wiring & Switch Kit

<u>Parts List:</u>	<u>Quantity:</u>	<u>Tool List:</u>
Wiring harness	1	• Flat head & Phillips screwdriver
OEM-Style Switch	1	• Ratchet & Socket set OR
PB-3551 Parts Bag	1	• Adjustable Wrench
		• Small knife

Thank you for purchasing one of our products. Please familiarize yourself with the parts included as well as the instructions before attempting installation. Please seek the help of a certified technician if you feel unable to complete the installation safely and properly. Failure to read and follow the instructions below may result in personal injury or damage to property. Starkey Products, Inc. and our retailers assume no liability for failures to comply with guidelines and warnings outlined in this instruction manual.

Wiring in Engine Bay:

1. Open hood of car and make sure hood is held open securely.
2. Disconnect negative (black) battery cable from the car battery. This is done by loosening the bolt located on the side of the battery cable terminal with an 8mm socket or wrench. You may let the cable hang off to the side. Make sure the cable has been disconnected! This is important!
3. Remove the black panel which covers the radiator/grill (shown in picture 1). The panel is attached by 8 plastic pins. The pins are removed by prying up on center part and then prying up on the body of the pin. See picture 2. Save pins and black panel for re-installation later.
4. Locate the fuse box. It is located behind the passenger side head light. Open the access cover.



Remove black panel shown. Save 8 retaining pins for re-install later.



Pry up on center part of pin first. Then pry out entire retainer pin.



Be sure that the bolt is re-attached tightly enough that it will not loosen.

5. Connect the **orange** wire to the positive (+12 volt) power cable entering the fuse box shown in picture 3 above. A 10mm socket or wrench can be used to remove the bolt holding the +12v power supply cable. A ring terminal is located at end of the **orange** wire which will slide over the post. Re-attach bolt tightly. While tightening be careful not to allow your wrench or ratchet to come in contact with any other metal object such as the car body.
6. Use a 10mm socket or wrench to attach the **black** ground cable ring terminal to the bolt shown in picture 4. Re-attach the bolt so the ring terminal makes proper contact and the bolt is tight.



Attach ring terminal to bolt circled above. Firmly re-tighten the bolt.



Cut small "X" in grommet and route wiring through the hole.

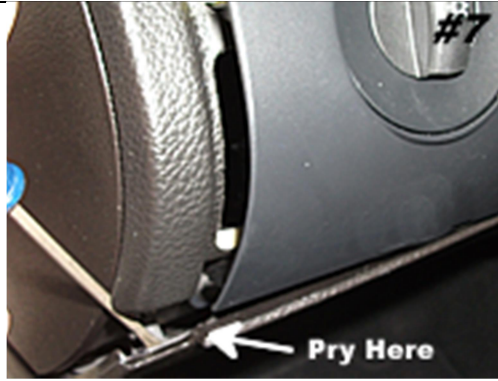


Cut small "X" in boot and route wiring through the hole.

7. Route the wiring for the driver side fog light and switch over the radiator along the frame of the car. The best way to do this is follow the existing bundle of wiring.
8. Route the wiring for each light down to the fog light locations. Route wiring for the passenger compartment (red/blue/black wire bundle) along the driver's side fender towards passenger compartment.
9. Plug the fog light connectors into the fog lights.
10. If you are installing this kit on a V6 Mustang, follow step 11. If you are installing this kit on a Boss 302/ GT, skip to step 13.
11. V6 Mustangs - Locate the circular black grommet on the driver's side firewall about 4 inches to the right of the brake booster. See picture 5 above. Carefully use a razor or knife to cut an "X" in the grommet.
12. Gently push red/blue/black wiring through the firewall into the passenger compartment. Now skip to 'Installing switch in passenger compartment' section below.
13. Boss 302/ GT - Open the drivers' side door and locate black rubber boot to the left of the pedals. Carefully pull to remove from the firewall. It is stiff so a screw driver may help pry the edge up. See picture 6. This is where we want to route the red/blue/black wire bundle into the passenger compartment.
14. The easiest way to do so is to route the wiring down past the sound enhancement tube (black tube which runs from the air intake to the firewall) toward the ground. Follow the existing bundle of wiring. It will be easiest to unbolt the sound enhancement tube so that you can move it a few inches out of the way. Tip: Shine a flash light through the hole in the passenger compartment – this will assist you in feeding the wires down to the proper location from the engine bay.
15. While inside the passenger compartment, pull the red/blue/black wire bundle through the firewall.
16. Carefully use a razor or knife to cut an 'X' in the rubber boot. Then gently feed the wiring through the 'X' cut in the boot.
17. Re-install rubber boot in the firewall by pushing it back into the hole firmly. Make sure it seals completely so that no leaks are possible.

Installing switch in passenger compartment:

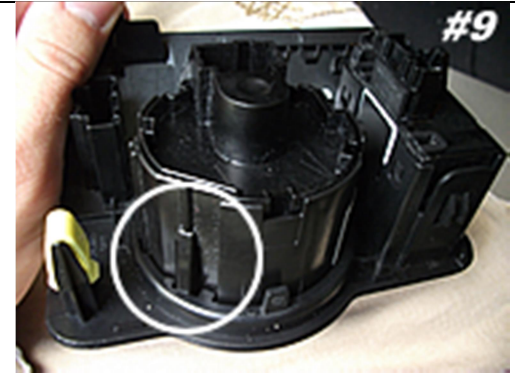
1. Use a flat head screw driver to gently pry downward about ½ inch on the dash panel located below the switch panel. This will help allow switch removal. See picture 7. You will notice that at the bottom left corner of the switch panel there is a two inch long tab with a screw and clip at the end. The screw will need to be removed with a 7mm socket or adjustable wrench. Save for re-attachment later.
2. Using a flat head screw driver wrapped in a rag, carefully pry up on the switch panel from the top left corner. See picture 8.



Pry downward slightly. Be gentle and cautious when doing so.

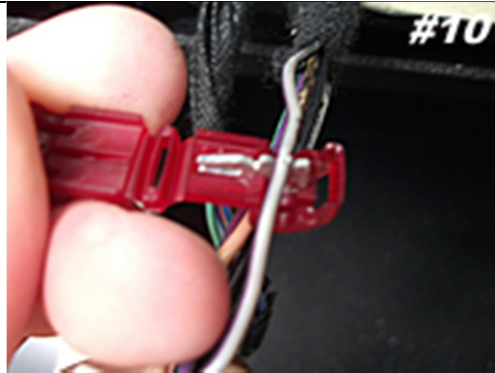


Pry up gently to loosen switch panel.

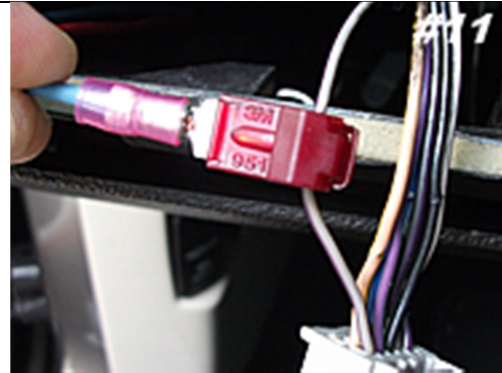


3 tabs hold switch in. One of the tabs is circled in the picture above.

3. Unplug the head light switch panel and remove from vehicle.
4. The head light switch is removed from the switch panel by depressing three tabs around the base of the switch. The switch will then come out of the switch panel. See picture 9.
5. Install the new switch into the switch panel. It should snap into place with very little force. Make sure it is in the correct orientation for it to snap into place (should be right-side up).
6. Felt electrical tape is wrapped around the bundle of wires that plugs into the switch. Carefully unwrap tape several inches so you have better access to individual wires.
7. Using one of the supplied red wire taps, slide the **Gray** wire with **Purple** stripe (Pin #5) onto the wire tap. See picture 10 below. The wire should sit in the middle of the two teeth. Squeeze down on the wire tap making sure it snaps closed. Do not cut Wire!



Slide wire into place and close wire tap firmly.



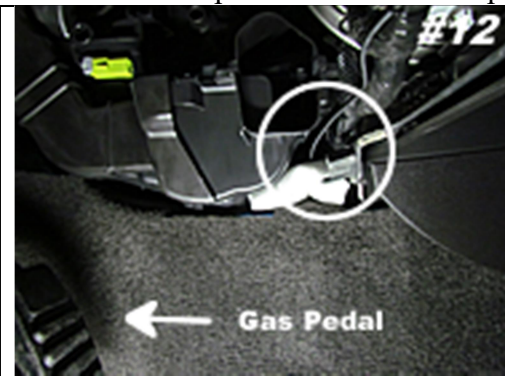
Plug correct wire into the wire tap as indicated in manual.

8. Plug the **blue** wire from the fog light wiring into the back of the wire tap connected to the Gray wire with Purple stripe. See picture 11 above.
9. Using the second red wire tap, repeat the process by sliding the **Brown** wire with **Yellow** stripe (Pin #10) onto the wire tap and closing the wire tap.
10. Plug the **red** wire from the fog light wiring harness into the back of the wire tap connected to the Tan wire with Yellow stripe.
11. Plug head lamp switch wiring into your new OEM-Style head lamp switch.
12. Re-install the head lamp switch panel into the dash.

Final wiring in passenger compartment:

The long black wire that you routed through the firewall earlier must now be routed over the center console to the passenger side of the vehicle.

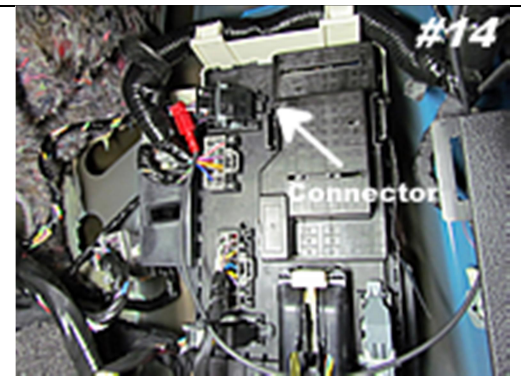
1. A small gap exists where you can route the black wire through. It sits behind the air vent near the drivers feet. Follow the existing bundle of wiring. If you are having trouble getting it to pass through, taping the wire to a clothes hanger or similar object may help you pass the wire through. See picture 12.
2. After you have reached the foot well on the passenger side, locate the interior fuse box. It is located behind the passenger side kick panel directly in front of the door. If you have trouble finding it, refer to your vehicles user manual for the specific location.
3. Remover the access cover. After removing the cover, there may be a piece of black felt paper taped to the box. Simply fold the felt paper up so you can access all of the connectors located on the fuse box.
4. Locate the C2280B connector on the fuse box. If you are looking at it directly, it is the connector located at the top left of the fuse box. It is a 52-pin connector with a total of 29 wires coming out of it. It is black in color with a gray bar across it vertically. Be sure you have located the proper connector. See picture 13 & 14 below. Be very gentle with all wiring.
5. Using a red wire tap, slide the **White** wire (Pin #13) onto the wire tap and close the wire tap. Be sure you have located the solid white wire. There are several other wires that are similar in color.
6. Plug the **black** wire from the fog light wiring harness into the back of the wire tap connected to the White wire.
7. Use the supplied zip ties to secure all wiring under the dash. Be sure the wiring will not affect operation of the brake pedal. Failure to secure the wiring under the dash could cause an accident.



Pass black wire through the center console to passenger side kick panel.



Connect to white wire on connector shown above using a wire tap.



Another view of the proper connector after connecting harness to white wire

Final Installation:

1. Re-connect the negative battery cable to the car battery. Remember to re-tighten the bolt.
2. Double check everything to make sure it was connected properly. Now insert the key and turn it to the "ON" position. Test the switch to make sure the lights turn ON and OFF. The fog lights are activated by pulling the knob outward. If the lights do not power on, visit the trouble shooting section below. Otherwise proceed to the next step.
3. Using the supplied zip ties, secure the kits wiring in the engine bay and passenger compartment. Be sure to securely zip tie any components that may rattle.
4. Be sure you secure all wiring under the dash and near the pedals. Failure to do so could cause damage to the fog light wiring harness or cause an accident.
5. Re-install the radiator cover.
6. Re-install fuse box access cover which is located on the passenger side kick panel.
7. Enjoy your new fog lights! The fog lights are activated by pulling the knob outward while the switch is in the running lamps, head lamps, or auto headlamps position. You may operate the fog

lights as daytime running lights by turning them on while in the auto headlamps position. Your fog lights will turn off automatically when the key is removed from the vehicle.

Trouble shooting guide:

Fog lights won't turn on –

- Check to make sure you connected wire taps to the correct wires outlined in the “Installing switch in passenger compartment” section above. This is the MOST common mistake made during installation. There are many similar color wires so be sure you tapped into the proper wires.
- Check to make sure your ignition key is in the “ON” position. You can be sure it is in the correct position by starting the engine.
- Check to make sure you connected your wire tap to the proper wire/ connector near the passenger side fuse box.
- Check the ground cable you connected under the “Wiring in engine bay” section. Make sure that it is making proper contact and that the bolt is tightened.
- Check the ring terminal you connected to the side of the fuse box to +12v power. Make sure that it is making proper contact and that the bolt is tightened.
- Check the blue fuse installed in the fuse holder (small black box located on orange wire). Make sure it is plugged in completely and has not been blown (On a blown fuse the filament in the middle of the two posts has been broken).

My Car Won't Start, or other electronics on the car do not function properly –

- Although we don't suggest it in the instruction manual, some installers unplug the C2280B connector mentioned on Page 4 to gain better access to the white wire. If this connector is not plugged back in properly, you may experience an issue where the car won't start or other electronics on the car don't function properly. Check to make sure the connector is seated and the gray locking bar is in the closed position.

Fog light indicator light (on switch panel) doesn't come on when I turn the fog lights on –

- Check to make sure you installed the wire tap on the proper wire as indicated above. Also make sure the wire tap cover is closed completely.
- Check to make sure the tan fuse installed in the second fuse holder (connected to red wires) is installed properly and has not been blown (On a blown fuse the filament in the middle of the two posts has been broken).

When I turn the car on or the fog lights on and off I hear a “click” in the engine bay –

- This is normal. The relays click when the lights turn on and off.

If you are still having trouble with your product, please contact us for technical assistance. Tech support is available via phone Monday through Friday 9am-5pm. Email tech support is available during regular business hours as well as weekends, holidays, and evenings.

Starkey Products, Inc.

Phone: (877)-332-8098

Email: Tech@Starkey-Products.com

Website: www.Starkey-Products.com

Limited Warranty:

This warranty covers defects in materials or workmanship in any component sold by Starkey Products, Inc. or its authorized dealers. Warranty is effective for five years from the date of purchase. Coverage terminates if you sell or transfer ownership of the product. Starkey Products will repair or replace the defective or malfunctioning product or any defective or malfunctioning part thereof at no charge. This warranty covers parts and labor only. This warranty does not cover any problem that is caused by abuse, misuse, acts of God, or improper installation. Any modification or alteration to any component will void the product warranty. Warranty does not cover wear that any components receive through the normal course of operation and use (including but not limited to bulbs). All warranty claims require proof of purchase.