

STARKEY

PRODUCTS

2013-2014 Ford Mustang GT-Style Fog Light Conversion Kit

<u>Parts List:</u>	<u>Quantity:</u>	<u>Tool List:</u>
Fog light (Left & Right)	2	• Flat head & Phillips screwdriver
Upper grille with surround	1	• Ratchet & Socket set OR
Lower grille	1	• Adjustable Wrench
Wiring harness extenders (set)	1	• Small knife
PB-3506 Parts bag	1	

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.

This kit is designed for 2013 V6 Mustangs or GT California Special Mustangs that came with lower valance fog lamps from the factory. If your Mustang did not come with fog lights from the factory, you will also need Starkey part number 3551 (wiring and OEM switch kit) to power your LED fog lamps.

Removing the bumper:

Removing the bumper is necessary. Although it may sound daunting, it is actually quite simple. Driving the vehicle onto ramps or raising the front end of the car will greatly ease installation. Before beginning the steps below, turn off the car, remove key, and engage the emergency brake.

1. Removing the splash/ rock guard is the first step to removing the bumper. The splash guard has 17 screws holding it in place. Use a ratchet & 8mm socket OR Phillips screwdriver to remove the 6 screws closest to the front (nose) of the car. Use a 7mm socket to remove the remaining 11 screws. After the 17 screws are removed splash guard can be detached by pulling back/ down gently. Set aside 17 screws and splash guard for re-attachment later. See picture 1.
2. After removing the splash guard, unplug the turn signal indicator lamps. These are disconnected by squeezing the clip where the wires enter the connector.



Black splash guard should be removed. It is held by 17 screws.



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.

3. Remove the exterior temperature sensor. It can be completely removed from the lower grille by pulling it off. It is attached with ribbed push pins. The push pins will resist being removed so you have to use some force to pull it off.
4. Unplug the existing wiring connected to your lower valance fog lights. The two black wings on either side of the connector should be pulled outward to disconnect from the bulb.
5. Open hood of car and make sure hood is held open securely.
6. Remove the black panel which covers the radiator/grill (shown in picture 2). 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 3. Save pins and black panel for re-installation later.
7. Remove the 4 bolts (8mm) and 4 push-pin screws located on the lip of the bumper below the panel you just removed. See picture 4. Sometimes the screws don't retract and you may have to pry up with a flat-head screwdriver as you turn the screw.
8. Remove the 3 bolts (7mm) that attach the bumper to the wheel well on each side of the car. Set aside for re-install later. See picture 5.
9. Now that all the hardware has been removed, the bumper is ready to come off. This isn't very difficult, but it is helpful to have an extra set of hands. Start on one side of the bumper. Pull the edge of the bumper away from the fender as shown in picture 6. There are three clips that will dis-engage when you begin to pull. There will be a loud 'pop' sound – this is normal. Repeat on opposite side of car.
10. Slowly and very carefully begin to pull the bumper off. The best place to hold the bumper is at the nose as you move backward. If you encounter a lot of resistance, check to make sure all hardware has been removed. Sometimes the side skirts of the bumper get caught on the wheel well and you may need to pull them back slightly as you step back.
11. Remove your old lower valance fog lamps from the bumper. These are removed by removing the bracket the lamps are housed in. You can leave the existing bezels in the bumper or remove them and replace with blank bezels or bezels used for the Ford Racing brake duct cooling kit.



Remove 4 bolts (8mm) and 4 push-pin Phillips screws.



Remove 3 bolts on driver and passenger side wheel well.



Pull the edge of bumper away from fender. You will hear a 'pop'.

Installing upper/lower grille and fog lights:

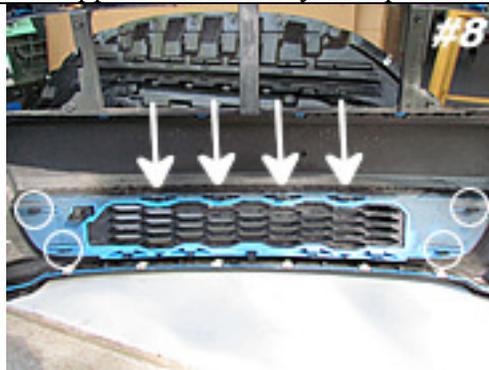
1. After the bumper is removed, you may notice that a piece of black Styrofoam that either stayed attached to the car or came off with the bumper. If the piece came off, that is no problem. It is held on loosely by 4 long ribbed push pins. Sometimes they will remain on the car when the bumper is removed. If the black Styrofoam came off, simply re-attach it with the 4 ribbed push pins. See picture 7 below.

The following steps will explain how to remove the upper and lower grille. Take your time during this part of the installation.

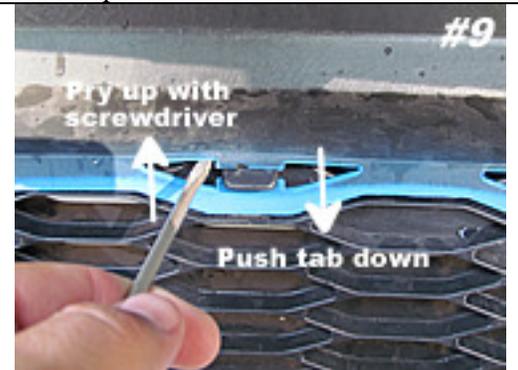
2. First we will remove the lower grille. It is held on by a number of locking tabs. The 2 on each side and the 4 on top are the ones that primarily secure the grille. Starting from one side, dis-engage each black tab one at a time. The top row of tabs should be pushed down to unlock, and the bottom row of tabs should be pushed up to unlock. Sometimes it can be helpful to pry up against the body colored plastic in the opposite direction you depress the tab. See picture 8 and 9.



Re-attach black Styrofoam piece with 4 ribbed push pins before continuing.



Start on one side releasing tabs as you go. Depress tabs to un-lock them.

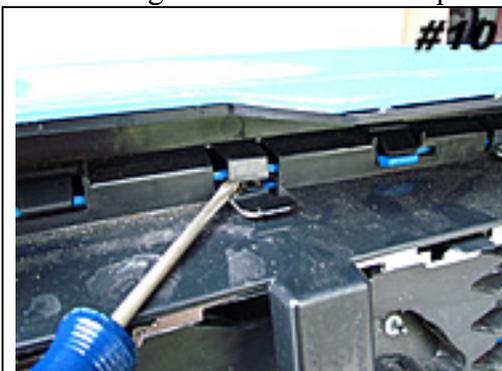


Top row of tabs shown. Pry up with screwdriver while pushing tab down.

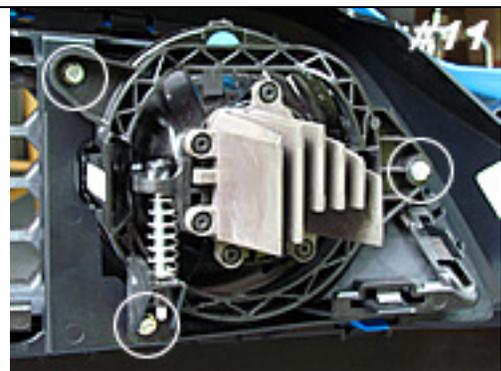
3. After removing the lower grille, install new GT-Style lower grille. It should snap into place with little force. Be sure that all tabs line up and lock into place securely.

Now we will remove the upper grille. Take a close look at the way it integrates into the bumper. The V6, Boss, and GT grille are actually made up of three pieces – grille, grille surround (chrome on V6, gloss black on Boss and GT), and grille retainer. The grille retainer will remain on the bumper and does not need to be removed. We will be removing the actual grille and surround and replacing it with the GT grille/ surround.

4. It is only necessary to unlock the 5 chrome tabs (black on Boss) on the top of the grille, and 5 chrome tabs on the bottom of the grille. Ignore the body colored tabs. See picture 10. Start on one side of the grille and as you unlock the tabs, push the grille outward so that it doesn't snap back into place. Be gentle during this process. Remember - the grille retainer tabs you are prying up on will be holding your new grille in place, so you want to take care not to break them.
5. Install new GT upper grille and surround included with kit. Make sure that all of the tabs lock into place and grille is secure.
6. Attach each fog lamp. Each lamp is attached with 3 screws. Use 5/16 socket or flat head screwdriver to tighten each screw. See picture 11.



Top row of tabs shown. Pry up with screwdriver while pushing tab down.



3 screws hold on each fog lamp. Use 5/16 socket or flat head to tighten.

7. You are done with the installation of the grille! Re-install bumper. It is very helpful to get assistance when re-aligning bumper with fenders. Be sure you re-attach all bolts and screws tightly. DO NOT re-install splash guard or radiator cover, this will be completed later.
8. Plug turn signals back into wiring on each side. Also re-attach temperature sensor – simply push the ribbed push pins into the new bracket molded into the lower grille.

Final Installation:

1. Using the set of wiring extenders included in this kit, plug the end with the all black connector into your factory wiring you disconnected from the lower valance fog lights earlier.
2. Plug the other end of the wiring extenders into your new, LED fog lamps. The LED connectors are black, blue, and yellow. It is generally easier to plug them in from under the bumper.
3. 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.
4. Using the supplied zip ties, secure the wiring extenders. Be sure to keep wiring away from moving objects or sources of heat.
5. Adjust the lights. This will require a Philips screwdriver. Starkey Products adjusts the lamps from the factory but you may adjust them if you feel it is necessary. This is best done at night or in a garage where there is less light. Turn the lights on and position the car about 15 feet from the wall. On each fog light the screw can be turned left or right to adjust up and down. Adjust the lights so that the individual light patterns are level on the wall.
6. Re-install the radiator cover and splash guard.
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.

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.

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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.