



# SCOTT DRAKE

## SCOTT DRAKE 3 BULB INSERTS FOR CLASSIC MUSTANG TAIL LAMPS

The Scott Drake 3 bulb inserts will increase the brightness of your Classic Mustang's taillights, turn signals and brake lights by 200%, increasing visibility and safety. This can be observed and compared by doing one tail lamp with the insert and then turning on the lights.

Our inserts are designed and intended for use in the Classic Mustang. Because this is a custom part, other applications may be possible.

Installation is straight forward. The installer must have basic knowledge of automotive electrical. We suggest having the particular wiring diagram for the Mustang being worked on. These are available from any Scott Drake authorized dealer.

This is also a good time to inspect and replace the lens and all of the seals in the tail lamps. For 65-6 Mustangs, we suggest using our poly-carbonate lens, C5ZZ-13450-PC.

Cracked lenses and deteriorated tail lamp seals cause all kinds of problems with taillights.

**Tools:** Only a wire stripper/crimper, harness tape and basic tools are required. It may be helpful to have a circuit tester and a couple extra fuses.

### Let's get started:

Before starting the project, you may want to familiarize yourself with the wiring of the taillights. The use of a test light probe will help you identify which wires of the car's tail lamp harness will be used. This also confirms that the taillights and brake/turn signal lights are working properly.

The original sockets in the tail lamp housings will need to be removed and the wires cut.  
*Hint: leave enough wire to reattach in the future.*

The 65-6 Mustang tail lamp housings require the sockets be knocked out. Remove the bulb and carefully tap out the socket from the back out the front.

A hammer handle works great.

1967 -70 sockets simply pop out.

Rubber grommets are included to insert in the socket holes to protect the wires from any sharp edges and to keep dirt out of the housing.

There is a correct way to install the insert in the housing. Note the shape of the lamp dividers in relation to the shape of the lens. The inserts stay in place without the need to use additional hardware. Note that 67-8 inserts use the screws that retain the lens at each side of the housing.

Always check the contacts in each socket. The contacts should be seated in the plastic follower and should not be touching each other. If a contact is out of position, simply pull the wire from behind the socket and the contact should go right back where it belongs. Pulling the wires will help seat the contacts.

Each insert has 3 sockets and each socket has a red wire and a colored wire.

The different colors are used when the inserts are part of the Scott Drake sequential light kit installation. When the inserts are used in a standard mode, the 3 red wires are connected together and the 3 colored wires are connected together creating 2 sets of wires for each insert.

We suggest soldering the wires together but the installer can choose whatever type of connector desired. We are dealing with brake lights, so good secure connections are a must. Twisting and tapping wires together is not advisable. Because this is a custom product, the installer must choose the connectors that are best for the particular installation. We do not include connectors for this reason.

The red wires (*connected as one*) should be connected to the tail lamp wire. The lower brightness filament of the bulb should illuminate when the headlamps are turned on.

The colored wires (*connected as one*) should be connected to the brake and turn signal wire that will illuminate the brightest filament of the bulb when the brakes or turn signals are activated.

Again, consult the wiring diagram or use a test light to determine the correct wires to connect to.

## **Grounding**

**Note:** The inserts must be grounded to the body before any lights will come on.

All Classic Mustangs have a ground wire in the tail lamp harness. It will typically be black. Confirm the proper ground wire by consulting the factory wiring diagram.

The inserts touch the inside of the tail lamp housing metal (*no special attaching is required*) and the housing touches the car's body when installed and secured. The black ground wire is typically attached to one of the mounting points using a loop style connector. This completes the ground and the lights will function normally.

**Note:** Paint and rust can cause problems with proper grounding, so be sure to have a good metal to metal contact.

Insert 1157 type bulbs in each socket. Note that the 1157 bulbs will only go into the socket one way. Use of the LED style 1157 bulbs is not recommended.

Before buttoning everything up, check your work.

## **Thank you for buying our product.**

We hope that whatever your Mustang project is you find Scott Drake products to be the right choice.

Our 3 bulb tail lamp inserts are designed to give years of trouble-free service.

## **Trouble shooting:**

No lights come on. This indicates that the ground may not be good or the battery is disconnected.

The taillights are brighter than the brake and turn signal lights. This indicates that the wires from the sockets were not connected to the correct wires in the taillight harness. The taillights come on but there are no brake or turn signal lights or vice-versa. Check the fuse under the dash. If you discover the fuse is blown, there is a short in the tail light circuit. Remove all bulbs and recheck the contacts in each socket. Insert one bulb at a time and check both the taillight and brake/turn signal. Continue inserting and checking bulbs until you discover which socket may be causing the short.

Another possibility for a short in the circuit is an exposed "hot" wire making contact with metal.