Components included in your kit:

Your kit consists of a LED flasher module as and left and right taillight modules. The LED flasher module will replace your existing flasher module. The left and right taillight modules will replace your existing incandescent light bulbs.

First we will install the LED flasher module assemblies.

This kit is designed for cars with original factory wiring which have damaged or non functional electro-mechanical sequential modules. If the cars wiring has been modified you will have to correct those modifications to some degree to make the kit work. We have attached wiring diagrams for this purpose.

NOTE: LED Modules may be different than those pictured.

Install the flasher module assembly by first attaching the included wire tap connectors on each indicated wire. All wires are connected in the trunk of the 67 Cougar.

Remove the old sequential flasher system specifically the following components by unplugging them from their harness:

A) Sequential Turn Signal Relay.

B) Sequential Turn Signal Motor.

C) Emergency Relay A

Each wire in your 67 Cougar is color coded. The diagrams here below indicate by letters marked adjacent to the wire where to place the wire tap connectors. A properly attached wire tap connector is shown on the following pages.

You will now install 12 wire tap connectors.

Attach wire tap connectors at each wire marked on the following schematic. See the pictures for proper wire tap installation.

After all wire taps are attached to the proper point in the Cougar wiring harness you can simply plug in the corresponding wire from the flasher module assembly. A color legend is included on the wiring diagram and following pictures.

Now install the LED taillight modules. Each module is clearly marked for its position in the lamp housing. Both left and right housings use the same modules.

Be careful to install only the Left module in the Left taillight and the Right module in the right taillight.

You will follow the procedure below for installing each LED taillight module.

“Read these instructions carefully before installing our Taillights!!!

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All of the equipment illustrated in this manual was proudly manufactured in the USA by Mustang Project a SafeCode Inc. enterprise. For accessories and spare parts please visit us on the web at:

www.mustangproject.com
If the sockets in your car have been replaced or rewired make sure that they are wired so that the socket provides the wiring as shown below to the sequential taillight module.

All Mustang sockets are designed to be “polarized” so that the same pins are connected to the brake/tail light and driving light lines.

The socket needs to move freely as you insert the LED module. IF the taillight socket has boots on the back, REMOVE the boots before you insert the LED module.

After the module is properly seated replace the boot. These sockets become rusty over the years and do not adjust freely. Spray with PB blaster to ensure free movement.
**Step 2:** Attach wire tap connectors to the 8 pin harness connector as shown. You will attach the wire tap connectors to the white and violet wires exiting from this connector. These wires lead to male pins as shown in the photo and schematic below.

**Tip:** The circle with an X inside is a MALE connector pin. The open circle is a FEMALE receptacle.
Step 3: Attach 3 wire tap connectors to the 6 pin harness connector as shown. You will attach the wire tap connectors to one Green with White striped wire exiting from a female socket of this connector marked Y1 on the drawing. You will attach another wire tap connector to a White with Green striped connector exiting from the remaining female receptacle marked Y2 as shown in the drawing.

You will attach a wire tap connector to the Green with White stripe wire connected to the male terminal marked G as shown. The G terminal is a male terminal opposite the female terminal marked Y1 in the drawing and photo below.

G terminal wire tap connector not shown in this photo.
Step 4: Attach a wire tap connector to the ground wire pin as shown.

Step 5: Attach wire tap terminals to the lamp wires on each side of the car as shown. These are attached to the **Orange Red**, **Orange White**, and **Orange Blue** wires on one side of the car. Also attach wire tap connectors to the **Green Orange**, **Green Red**, and **Green Black** lamp wires.
67 Cougar Installation Instructions

[Diagram of wiring connections with labels such as GR for Green Harness, BK for Black Flasher 1, GR for Green Flasher 2, and O for Red Harness.]

**LEGEND = Flasher Wire Color**

- GR = Green Harness (LH Rear Tail)
- BK = Black Flasher 1 (Ground)
- G = Green Flasher 1 (Brake Switch)
- W = White Flasher 1 (Turn Signal)
- O = Red Harness (RH Rear Tail)
- Y2 = Green Flasher 2 (RH Front Lamp)
- Y1 = Blue Flasher 2 (LH Front Lamp)

[Other labels such as Green Harness wire (Y2) and Blue Flasher 2 wire (Y1).]
**Step 6:** Plug in the wires from Flasher Modules 1 and 2 to the corresponding wire tap connectors you have placed on the wire harness as shown in the picture below.

**Step 7:** Plug in the black wire from Module 1 as shown in the picture to the right.

- **Green from Module 1 (BRAKE)**
- **Blue from Module 2**
- **Green from Module 2**
- **White from Module 1 (Turn Signal)**
- **Blue from Module 1 (Turn Signal Switch)**
- **Black from Module 1**
Step 8: Plug in the wire harness from Module 1 to the wire tap connectors you applied to the lamp housing wires. The green wire from the module harness attaches to the green wires on the lamp sockets and the red wires from the module harness attach to the orange wires on the lamp sockets. Step 9: Make sure all bare terminals on the various connectors are insulated.
The finished installation can now be tested.

1) First test the driving and brake lights. Turn on the driving lights and check to see that all 6 lamps are dim. The Mustang Project sequential system does not control the driving lights at all so if you see lights out or bright instead of dim you have some wiring problems or socket/lamp problems that must be corrected.

2) Press on the brake and ensure that all lights become bright when this is done. If you do not see this check to be sure that all of the male tabs are properly inserted into the wire tap connectors. Its is common for the male tap to slide past the female retainer in the wire tap connector. You should not be able to see the majority of the male tab by looking through the translucent wire tap connector.

3) If the brake lights do not function properly that entire system needs to be checked for wiring problems.

4) Activate the turn signal for right and left sides and ensure that the lamps sequence on each side.

5) Activate the emergency flasher switch mounted on the steering column and ensure that all rear lamps flash on and off.

6) Do steps 4 and 5 checking the front turn signals.

DONE!
A wire tap connector is placed at each letter indicated below:

- **GR** = Green Harness
- **BK** = Black Flasher 1
- **Y1** = Blue Flasher 1
- **Y2** = Green Flasher 2
- **G** = Green Flasher 1
- **W** = White Flasher 1
- **O** = Red Harness
- **B** = Blue Flasher 1
- **Y2** = Green Flasher 2
- **Y1** = Blue Flasher 2

- W = White Flasher 1
- O = Red Harness
- Y2 = Green Flasher 2
- Y1 = Blue Flasher 2
- GR = Green Harness
- BK = Black Flasher 1
- B = Blue Flasher 1
- G = Green Flasher 1
For reference only no flasher module wires or wire tap connectors are installed in this area.
Installing the Taillights

NOTE: LED Modules may be different than those pictured.

“Do not force the module installation. Make sure the LED taillight base pin and the lamp socket slot is aligned. Also ensure that you are using the “right” module in the right side etc. .
Installing your Taillight Modules:

Water is the enemy of anything electronic.

Your taillight modules have been coated with a conformal coating which makes the modules resistant to water.

A correct installation will ensure that no water will enter the taillight housing. Make sure your taillight gaskets are in good order and that their seal is working properly.

You can test this by spraying your taillight housings with a hose with the lens, gasket and trim in place.

After spraying the housing for several minutes dry the outside and remove the trim and lens.

If there is any significant water inside the housing or on the taillight module you will need a new gasket or you will need to add some RTV around the lens.

While the taillight modules will operate correctly with quite a large amount of water on their surfaces because of the special conformal coating applied during manufacturing they are not warranted to operate wet.

So if you drive your Mustang in the wet weather check the seal and ensure that little or no water enters the housing!

Water in the lamp housings is a prime source of rust so preserve your Mustang and don’t let water enter!

SPECIAL NOTES:

**ONLY follow the adjustment instructions below if your lamp sockets are misaligned!**
Follow the following steps when checking the alignment.

**Step 1.** Loosen the nut pointed to below just enough for the LED taillight PCB (Printed Circuit Board) to rotate. Now adjust the base by moving it slightly to the right or left to ensure that there is proper alignment between the base and the Mustang socket with the board tilted down to the left. The module into the Mustang lamp socket.

**Step 2.** Insert the taillight module into the socket but do not push down and engage yet.

**Step 3.** With the base inserted into the socket but not engaged, rotate the taillight module down on its left side as shown below. While holding the board in this tilted position tighten the nut.

All the Mustangs we have tested have the taillight sockets aligned in the same manner. The LED taillight modules you have received are already aligned to fit standard Mustang lamp sockets.

However, if for some reason your lamp sockets are misaligned you can adjust the position of the LED taillight module by loosening and tightening the nut pointed to in the photo below.

65/66 Modules shown below.
The 1968 Cougar wiring is identical electrically to the 1967. However, the 1968 sequencer module utilized a slightly different plug configuration. The following pages will describe how to attach the wire tap connectors. Utilize the 1967 instructions as a reference for the following instructions.

Show here is the 1968 wiring diagram we will reference. The wire colors for the wire tap attachment points are identical to those on the 67.

Instead of connecting two wire tap connectors to the white and violet wires (440 and 441) on an 8 pin connector you will find two 4 pin connectors on the 68 that you unplugged from the sequential turn signal relay. Simply connect wire tap connectors to the same color wires (on the harness) as you see in the instructions for the 67 Cougar. These will be connected to male pins on each of these two 4 pin connectors. Again one is violet and one is white.

Now rather than connect two additional wire tap connectors on the 6 pin harness as in the 67 you connect one on a (green with white stripe - 448) wire which is a female pin on the 6 pin connector. You will also connect a wire tap connector on the two pin connector you unplugged from the sequential turn signal relay to a white with blue stripe wire (449). Now you are almost done.

You simply find an additional wire (475) Green with white Stripe on the 6 pin connector and install a wire tap connect on that wire. It will be connected to a male pin on the harness connector.

All that is left is to install a wire tap connector on the ground wire which is a black wire connected to a one pin connector that you will find is eventually connected to the chassis in the trunk.

Now just connect the wires from the modules to the appropriate color just as described in the instructions sheets.

The following pages describe the placement of the wire tap connectors and module connection in a step by step process.
Step 1: The 1968 Cougar sequential motor and sequential relay are removed as an assembly just as in Step 1 on page 3. The 68 relay assembly has a slightly different appearance. Note the names of the plugs and the colors referenced.

We will be attaching the wire tap connectors to the matching plug on the car’s wiring harness which remains in the trunk after the sequential relay assembly is removed.

You will also remove the emergency relay just as shown on page 3.
Remove this relay by unplugging it from the harness as described on page 3.

Step 2: Attach wire tap connectors to the points on the wiring harness indicated by the bold letters. Refer to the page 18 photograph to match the connector shape and color to this diagram. Remember to only attach wire tap connectors to the wire harness not the sequential module which you will have removed.

You will attach wire tap connectors to the car’s harness at the D-41 connector (Black 2 pin). The D3 (Red 6 pin) connector. The D4(Black 4 Pin) and the D4(White 4 Pin) connectors. You will also attach a wire tap connector to the Black 1 pin connector.

Wire tap connectors are attached to the lamp wires as show here and on page 6.

Step 3: Finally attach the flasher modules to the wire tap connectors as shown on pages 7, 8, and 9. See the LEGEND below to match the wires from the flasher modules.

Now you are ready to test!

Please see page 10.
The modules are identical for all models.
Trouble Shooting Guide:

If you have any problems with your installation please feel free to give us a call at 800-631-0507.

You can also check our web-page at www.mustangproject.com for updated Trouble Shooting Guides for all of our products.

Most Taillight problems are due to faulty wiring or bad socket connections.

Remember unless you have replaced the wiring or tail-light sockets in your Mustang you are dealing with electrical components that are over 40 years old!

Corrosion and rust can take their toll. If you have any troubles first re-install the standard incandescent lamps and ensure that the signals, brake, and light functions work properly. If you see any problem with the brake or signal light functionality using the incandescent lights your system will not work with the new Mustang Project LED tailight modules.

Carefully check for bad or rusted sockets. If you see evidence of corrosion carefully clean the contacts and re-test.

Old wiring can also be a source of problems. Look for broken or frayed insulation if you see intermittent functionality.

Below is a list of trouble shooting keys:

**Problem: Lights flicker.**

Flickering lights are often caused by failing alternators or bad regulators. The alternator may still function well enough to marginally charge the battery but diode failure in the alternator can cause flickering taillights.

It is also possible that the regulator is failing. The original Mustang electro-mechanical regulators are famous for unusually failures. Always replace your regulator with a Motorcraft direct replacement regulator available at most auto parts stores.

If you suspect a regulator or alternator problem you need to replace these items before you car is stranded! Doing so will also prevent flickering of the LED taillights.

**Problem: Taillights don’t sequence but do light if headlights are on.**

Most likely this is due to a bad socket. It can also be caused by incorrect installation of the Mustang Project flasher module or improper connection of the flasher module ground.

Carefully clean the socket and use a mild sandpaper on the Taillight Module contacts to clean off any debris left by a dirty socket.

**Problem: Taillights function abnormally in the rain.**

This is probably caused by water in the Taillight bucket. Check for evidence of water and repair any gasket leaks. The Mustang Project Taillight modules are coated to protect against water damage but they will not operate if too much water is allowed to cling to the circuit boards.

**Problem: Taillights don’t fit properly into sockets.**

Review the socket section at the beginning of this instruction sheet for adjustment with misaligned sockets.

Be careful to always ensure that you have removed the boot connector in the back of the light housing BEFORE inserting the taillight modules. Failure to do so can cause any or all of the above symptoms!