

Installation Instructions

These instructions cover the following kits:

64-66 Mustang Sequential Turn Signal LED kit

67-68 Mustang Sequential Turn Signal LED kit

Kit Contents

- 2 x LED Tail Light Panels
- 2 x Sequential control modules – pre installed on the rear of the tail light panels
- 2 x Sequence selection switch
- 2 x Wiring harness

You will also require the following to install these LED tail light boards:

- Basic tools.
- Automotive grade cable. We recommend using 25amp thin wall automotive cable.
- Cable sleeve, such as braided sleeve – we recommend placing the new cables within a protective sleeve to prevent the insulation being cut on any sharp areas of the vehicle body.
- A suitable method to join the wiring – solder or crimp connectors.
- A suitable method to seal the boards between the light lenses and housings to prevent water ingress – stock gaskets, adhesive foam seal or a suitable sealant.
- Depending on which type of flasher relay is fitted to your car you may need to change this to a unit suitable for use with LEDs.

Fitting Instructions

- **Care should be taken to ensure no metallic parts of the LED panels are allowed to contact the metal light housings.**
- **It is important that the LED panels are sealed against water/dust ingress on both the front and rear of the boards. Use stock gaskets, foam gasket strip or a suitable sealant.**
- The LED panels are designed to fit between the stock lens and metal housing. In order to fit the panels do the following;
 - 64-66
 - Remove the 4 retaining screws, chrome bezel, lens and gasket.
 - Using a block of wood and mallet, push the bulb holder out from the housing.
 - There is no need to remove the metal housing from the vehicle body.
 - 67-68
 - Remove the 6 bezel retaining nuts on the inside of the trunk area.
 - Remove the 3 chrome bezels.
 - Remove the bulb holder.
 - The light assembly can now be removed from the car.
 - Remove the 4 lens retaining screws, lens and gasket.
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 - Assembly is the reverse process for both 64-66 & 67-68.
- 64-66 Panels should be mounted so the white arrows face toward the outside of the vehicle.
- 67-68 Panels are marked LH & RH.

Wiring Instructions

As the modifications to wiring may differ from vehicle to vehicle it is difficult to include comprehensive instructions. We suggest before attempting to fit these light units that you obtain a wiring diagram for your vehicle and familiarise yourself with your vehicle wiring.

Stock Wiring Modifications

If your vehicle has not previously been modified to have rear amber turn signals then please follow these instructions. If you already have amber rear turn signals please skip this section.

The stock wiring of the 64-68 Mustangs combine the brake and indicators into one circuit. In order for this kit to function you must separate the brake and indicator 12V circuits. Perform the following:

1. Locate the brake switch on the brake pedal (or master cylinder)
2. There are two wires connected to the switch – Green/Red has a permanent live 12V source – Green is connected into the steering column harness.
3. Disconnect the green wire from the switch. The metal terminal can be pulled from the black connector by inserting a small screwdriver to depress the retaining tab. Insulate the terminal and secure out of the way. Alternatively cut the wire 2 inches (5cm) from the switch.
4. Connect a new cable (we recommend 25amp auto cable) to the terminal on the switch and route the cable through the car to the rear of the vehicle – It is best to follow the stock wiring harness along the body sills.
5. This new wire now acts as the 12V feed for the brake lights and should be connected to the Red brake wire of the LED lights.

Constant 12V Source

The sequential turn signal control module requires a constant 12V supply. This should be a fused (2amp) constant 12V source. For vehicles without hazard lights this 12V supply can be ignition switched – ie only live when the ignition is on.

1. A 2amp inline fuse should be installed.
2. Route the new cable to the rear of the vehicle (we recommend a 25amp thin wall auto cable)
3. We recommend combining this cable with the new brake cable (where applicable) and placing both within a protective sleeve before routing to the rear of the vehicle.

Connecting the LED panels

The supplied plug in harness contains 4 colour coded wires

- a. Black – Ground/Earth
- b. Red – Brake Light 12V
- c. Orange – Tail Light 12V
- d. Yellow – Turn Signal Constant 12V

There are also two further connections to be made on the sequence control module. These are both located on the black screw terminal block.

- a. Trig – Turn Signal Trigger from the turn signal switch.
- b. GRD – Ground/Earth – short black cable from the 4 wire connector

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1. The wiring diagram at the end of this document shows how to connect the LED panels and sequential control modules into your vehicle harness.
2. Cut the original bulb holders from the harness, making a note of the function of each of the wires.
3. We recommend either soldering the harness directly into the vehicle wiring or using appropriate crimp terminals.
4. Depending on your application you may need to change both the indicator and hazard light flasher relays. These are positioned behind the dash.
 - a. LEDs draw a much lower current than a standard filament bulb and therefore if the relays fitted to your vehicle are load sensitive the flash rate may change or the indicators may not function.
 - b. You will need to fit relays suitable for combined LED and filament bulb use (assuming you have standard front indicator bulbs). Basic non-load sensitive relays work well with these kits.
5. The kit is also supplied with a sequence selection push switch. This should be mounted into the light housing so that it can be reached from within the trunk area. The switch requires a 7mm mounting hole. Please ensure it is not located in a position likely to be knocked by any loose items within the trunk.

Testing

After installation is complete please check all light functions work correctly.

Also check all other light functions on the vehicle function correctly.

Sequence selection

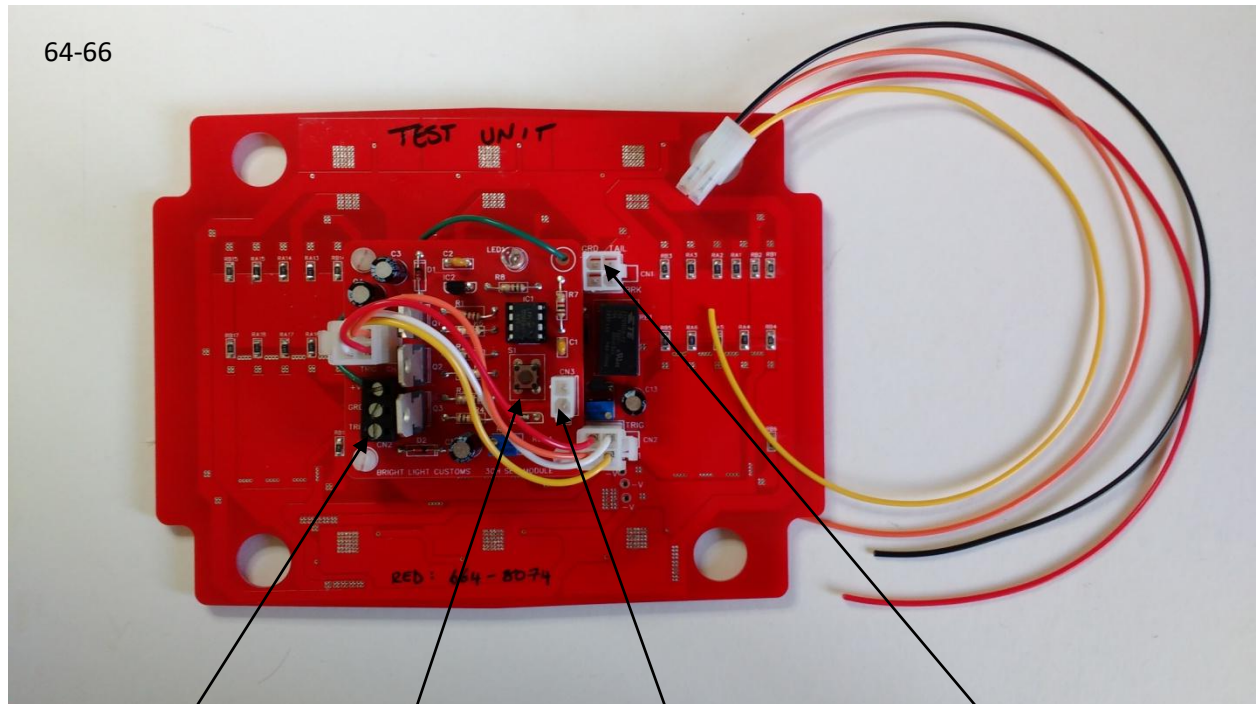
1. With the turn signal activated the turn signal should flash in sequence.
2. The units come pre-programmed with a selection of sequences. These can be selected via the push switch on the sequ module or via the remote switch.
3. Each time the switch is pressed the lights will run the next sequence.
4. Once you have selected the sequence you wish to use the system must be left running for a minimum of 20 seconds. This will allow the system to log the selection into the memory. Failure to follow this instruction will result in the system defaulting back to the first sequence.
5. Select the matching sequence on the 2nd LED unit.

Customer Support

If during the installation you have any questions or require assistance please contact us either via email or phone.

Phone: 07780 465070

Email: brightlightcustoms@hotmail.co.uk



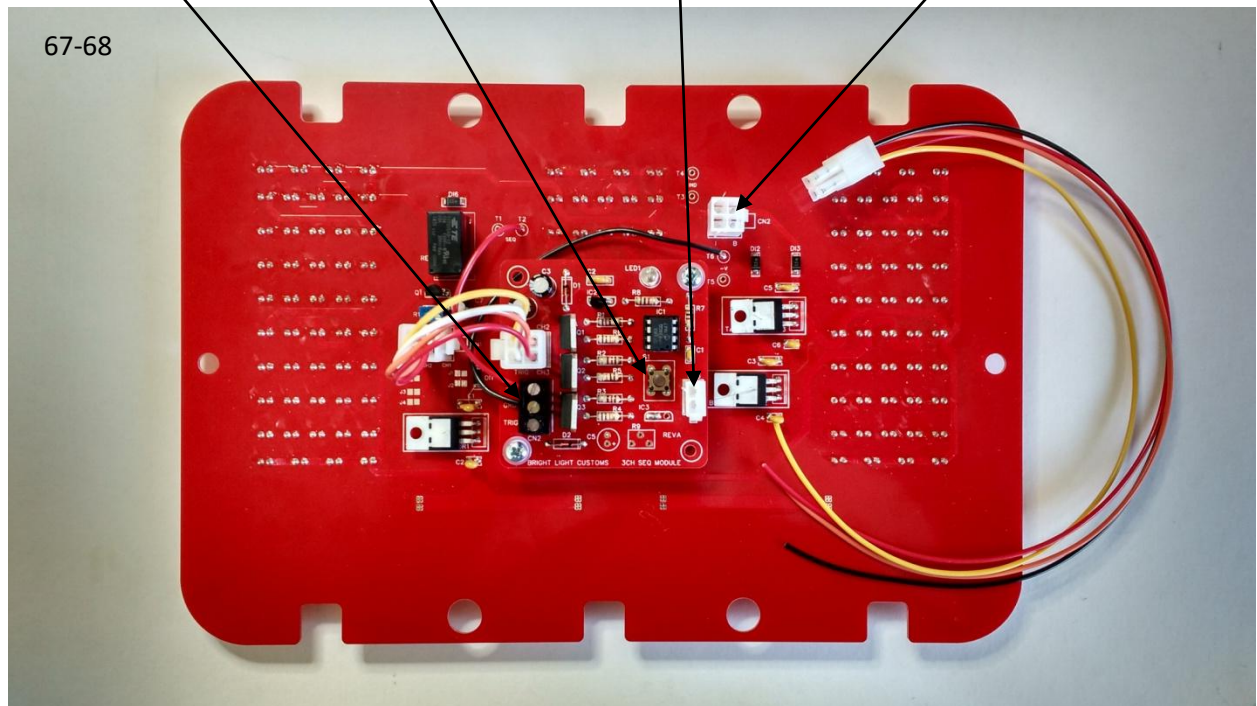
64-66

GRD and Trig screw terminals

Sequence selection switch

Remote switch connection

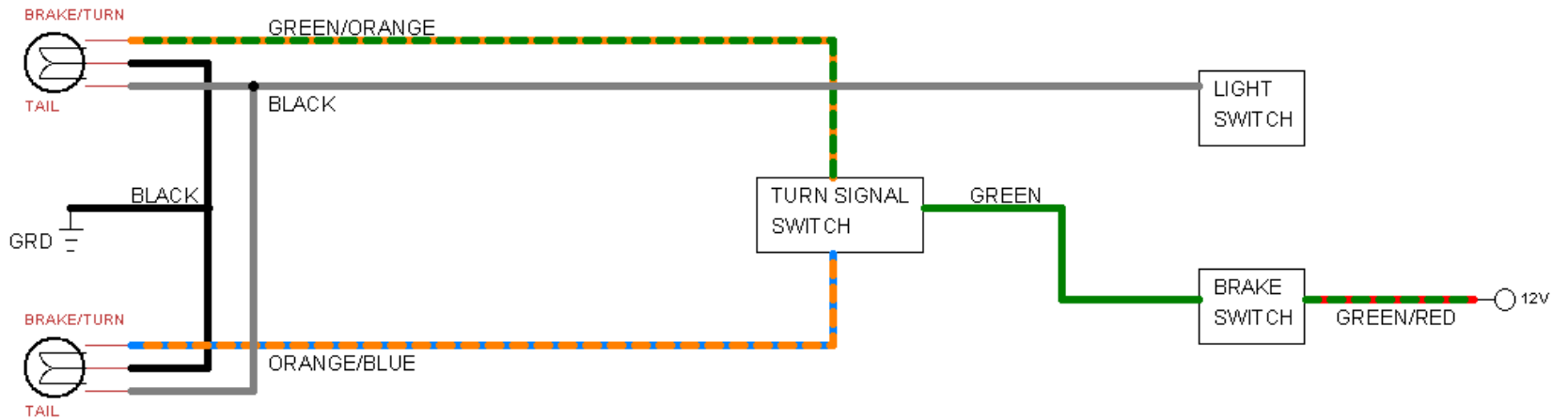
4 wire harness connection



67-68

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Stock Wiring



Wiring Modifications

