

# NorthWestMustang Shelby Style

Thank you for your purchase of the NorthWestMustang Sequential LED system. These are made in Oregon.

Model: **Shelby** LED Tail Lamp conversion board version 2

- **This board is designed for 12Volt Negative Ground operation. Any other power applications will destroy the LED board and void the warranty.**
- **Over voltage from a misadjusted generator or alternator system will destroy the LED board and void the warranty.**

**During installation, do not allow back of LED boards to rest against metal portions of the body. The boards are coated to prevent corrosion, but allowing contact to the body during operation may cause a short circuit.**

**LEDs are coated with a plastic covering. Some boards may appear foggy. This does not effect the brightness of the LEDs.**

**If the system does not work properly after following instructions, check to ensure the light socket is properly grounded. The system will not work properly if it is not grounded.**

## Operation:

The LED lamp substitutes for 1157 in the tail lamp. This kit is designed so the original OEM look is maintained except when the board is lit and in operation. The LED board operates as, tail, signal and brake lights. No other circuits are represented. Your existing wiring will operate the LED board without modification. The LED lights will be a vast improvement to OEM lights.

## Installation:

No modification is necessary to install the LED boards

1. Install enclosed Flasher.
  - a. Remove stock flasher, noting the positive and negative wires.
  - b. Install flasher unit.
  - c. Wires may be shorten, if required, but ensure connector is tight.
    - i. System will not work without enclosed flasher and it is installed correctly
    - ii. Red wire to positive
    - iii. Black to negative
  - d. **Connect blue grounding wire to any GOOD grounding point. The system will not work unless this wire is grounded.**
    - i. LEDs use very little power and this ensures proper operation.
  - e. Flasher should be installed where it will be able to have an airflow. Unit will put out a small amount of heat, which is normal.
2. Remove the bezel and lens from the rear lamps
3. Remove the 1157 bulb from its socket
4. Silicon or any other adhesive may be used to attach the boards to the light bucket.
5. The LED board rests in the brake light bucket.
  - a. Rest boards in buckets and align as needed.
  - b. Place wires over or around the OEM style divider.

- c. Additional tape or any other adhesive can be applied to the wires.
- 6. It is **imperative that the lens gasket is in good condition.**
  - a. Install the lens over the LED board so it is fully secured inside the brake light lens.
  - b. Check lights for proper operation before securing the lens.
  - c. Take care not to allow the board to contact metal, which will short out the system.
  - d. Ensure brake, running lights and turn signal operate properly.
  - e. The entire board lights for both tail and brake lights.
- 7. Plug socket pigtail into the inboard socket. Other two sockets are not used and should be plugged in and secured
  - a. Ensure light housing has a good ground.
    - i. LEDs use very little power and proper grounding is important.
  - b. Ensure all wiring has not loosen during shipment.
  - c. Ensure lens seals are in good condition.
  - d. All three LED boards will flash once or twice the first time you use them.
    - i. If the boards light but do not sequence, ensure blue wire connected to the flasher is properly grounded.
    - ii. This allows the chips to set the proper timing
- 8. Ensure proper operation prior permanently installing lens and gaskets.
  - a. As with all replacement parts, please ensure proper operation before driving on roads or highways.

**Ensure proper operation prior to installing lens and gaskets.**

- b. Due to many variations in wiring over the life of Mustangs, there is a chance the wiring has been changed or modified.
- c. Should the sequential system not work correctly and the *lights are dim*, and all three blink at once, the black and white wires coming from the 1157 socket need to be reversed.
- d. DO NOT CHANGE THE **BLACK** WIRE. This is the common wire.
  - i. Proper operation of these system was tested prior to shipping.
- e. Switch only the **BLUE** and **RED** WIRES.
  - i. Check for proper operation
- f. You may wish to apply a small amount of lock tight.
- g. All other wire connections have had lock tight applied.
- 9. Enjoy!!!!
- 10. LEDS last approx. 10,000 hours.
  - a. Should, after several years, an LED fails, you can replace with any 5mm Super Bright LED.
    - i. Ensure alignment of LED is correct.
    - ii. Inside LEDs you will see a small and large side. These need to be aligned with other LED in row. All LEDs lineup in the same direction in each row/column
- 11. NorthWestMustang products are manufactured in Oregon:
  - a. Board design, PC boards and final production is done in Oregon and California
  - b. Electronic components supplied from various locations worldwide
- 12. Enjoy your new sequential LED system, and thank you for your purchase.
- 13. Should you have any questions, please email me at NorthWestMustang@Comcast.NET

### Limited Warranty

All NorthWestMustang LLC products are warranted against defective materials and/or workmanship to all original consumer owners from the date of original consumer purchase for a period of 24 Months, or the transfer of ownership to another party. In the event of defective materials and /or workmanship, NorthWestMustang LLC. will, without charge, repair or replace, at its option, the defective product within 60 days from the receipt of the defective product at the following address: NorthWestMustang LLC, 3128 Marvin Dr. Eugene, OR 97404 attn Warranty Dept.

The Warranty does not apply to damage not resulting from defective materials and/or workmanship while in the possession of the original consumer or to unreasonable use by the original consumer, which includes but is not limited to improper installation, failure to provide reasonable and necessary maintenance, or commercial applications. NorthWestMustang LLC. is not liable for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.