

# NorthWestMustang

Model: **1964 Through 1966** LED Tail Lamp conversion board version 2

- **The boards are 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.**

## 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. The boards are coated on both sides. The LEDs have a plastic coating which does not interfere with the brightness of the LEDs. The back is coated with an epoxy and silicone covering to help protect from weather, but are not water proof. Should the lens gasket leak, ensure the boards are allowed to dry before operating.

**Do not allow the back or the board to contact metal. This may/will short out the system.**

**This system requires an operating front 1157 bulb**

## 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.
    - i. If installed backward, the lights will only flash.
  - c. Wires may be shorten, if required, but ensure connector is tight.
    - i. System will not work without enclosed flasher 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 good ground is required for proper operation.
    - e. Flasher should be installed where it will be able to have an airflow.
      - i. 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. Install the 1157 pig tail into the 1157 socket.
  - a. Ensure light housing has a good ground.
    - i. LEDs use very little power and a good ground is required for proper ground for proper operation.
  - b. Ensure wiring has not loosen during shipment.
  - c. Each board is marked with a LEFT or RIGHT arrow.
    - i. Mustang's right or left looking forward
  - d. Ensure lens seals are in good condition.

- e. Due to many variations in wiring over the life of Mustangs, there is a chance the wiring has been changed or modified.
  - f. Should the sequential system not work correctly and the lights are dim , the blue and red wires coming from the 1157 socket need to be reversed.
  - g. **DO NOT CHANGE THE BLACK WIRE.** This is the common wire.
    - i. Proper operation of this system was tested prior to shipping.
5. The LED board rests under the lens gasket and is secured in place by using the enclosed velcro
- a. Velcro is very strong, use caution when removing LED board.
    - i. Use 2 small piece on top and 2 on bottom to hold in place
    - ii. Plug the LED bayonet into the light socket
    - iii. Place the LED board in the bucket using the velcro, centered.
    - iv. Install board with arrow pointing up indicating turn direction
    - v. Place gasket on top of board.
  - b. It is *imperative that the lens gasket is in good condition.*
  - c. Check for proper operation before installing lens and bezel
  - d. Ensure brake, running lights and turn signal operate properly.
    - i. The entire board lights for both tail and brake lights.
    - ii. Lights may flash several times before the sequence begins. This is normal.
    - iii. *If the lights are very bright when the tail lights are on and do not change when the brake is applied, the blue and red wires will need to be reversed on the circuit board screw terminal. Use a small screw driver and carefully switch the blue and red wires only.*
      - (1) Take care that the wire enters the screw terminal. Reinstall as above.
  - e. Do to several factors, age of system, corrasion etc., the negative wiring attached to the brake light housing may not ground properly. Should your lights not operate, ensure proper grounding. An easy test is to run a test wire between the socket and a suitable grounding point. If this provides operation, tap into the each BLACK wire and ground. One wire to each plug is recommended should this problem arise.
  - f. Should the system not operate at all, twist 1157 pigtail. If lights begin operation, ensure the contacts inside the brake housing are clean and in good operation. This is very critical, as the rear boards system needs to “Hear” the flasher’s signal.
  - g. Install the lens and bezel over the LED board.
    - i. Check lights for proper operation before securing the lens.
6. Check local/state laws to ensure there are no restrictions regarding the operation of this system.
7. Should there be a problem with the system, the rear lights will only flash.
8. Should there be any other questions, please contact NorthWestMustang 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 6 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.