

NorthWestMustang

Model: **1971 Through 1973** 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 vinyl covering to help protect from weather, but is not water proof. Should the lens gasket leak, ensure the boards are allowed to dry before operating.

**Do not allow the back of 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 light bucket and lens from the rear lamps
3. Remove both 1157 bulb from its sockets
4. Remove 1156 backup light
5. Before removing the lens, please take care as this year Mustang lens was not designed to be removed easily
 - a. The lens is attached to the interior gasket with glue intended to hold over the years
 - i. You may wish to use an adhesive remover such as 3M Adhesive Remover of any other brand
 - ii. Spray between the lens and the white bucket
 - (1) allow several minutes to soak into the glue
 - iii. GENTLYYYYYYYYYY pry the lens from the bucket
 - (1) please note there are three tabs inserted in the bucket from the lens
 - (a) one on top
 - (b) two on the bottom
 - (2) I started on the top and GENTLY pried the lens out
 - (3) then the bottom
 - (4) Ensure lens seals are in good condition

- iv. You may wish to clean the gasket before installing the LED board
- 6. Velcro is included with your new LED boards.
- 7. Place boards onto the lens to ensure proper placement
 - a. Ensure wiring has not loosen during shipment
 - b. Note that each board is marked R for Right and L for left
 - i. This indicates the direction of turn facing forward
 - c. Boards are designed to fit into the hole on each section.
 - d. The white reverse LEDs will lineup with the clear lens
- 8. Place four pieces on each board with the LEDs facing you
 - a. Next to each center section cutout and on each side
 - b. Remove the backing on one side of the velcro and place the sticky portion on the edge, centered on the board
 - i. This allows the velcro to hold the lens in place but does not interfere with the LEDs
 - c. After insuring the boards are in the correct lens, remove the remaining backing allowing the sticky facing to attach to the lens
- 9. Ensure proper operation prior to install the lens into the bucket
 - a. Attach the 1157, two contact, pigtail to the brake wiring
 - 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 , the blue and red 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 this system was tested prior to shipping.
 - e. Only one pigtail is used for the brake and turn signal
 - (1) the remaining harness should be reinstalled without connecting to anything.
 - f. Attach the 1156, one contact, pigtail to the reverse wiring
 - g. Check:
 - i. Brake
 - ii. Tail
 - iii. Reverse
 - iv. Sequence LEDs
 - (1) the sequence mode will start and may flash
 - (2) the flash is the computer chips starting the timing
 - (3) should the sequence not begin turn the tail lights on
 - (4) if it still does not sequence, start the engine and allow the battery to charge up for a minute or two
 - (a) both chips need to set the timing and they are looking for several voltage spikes. Should the battery be a bit weak, they will not go into the first sequence
 - h. Install the 1157 and 1156 pigtails through the rear holes
 - i. Ensure both pigtails are outside the rear bucket hole before final placement of the lens
- 10. Attach board to the lens
 - a. Gentlyyyy push the board against the lens to ensure proper adherence to the lens
- 11. After installing the board onto the lens, replace the lens into the bucket
 - a. You may wish to apply new sealant, such as a clear silicon
 - b. If the gasket is still stick, this may work, however new sealant will ensure a tight fit keeping water out
 - c. Velcro is very strong, use caution when removing LED board

12. Ensure light pigtailed are attached to the wiring harness
 - a. Check for proper operation
13. Check local/state laws to ensure there are no restrictions regarding the operation of this system.
14. Should there be a problem with the system, the rear lights will only flash.
15. 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 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 6 months from the receipt of the defective product at the following address: NorthWestMustang LLC, 3128 Marvin Dr. Eugene, OR 97404 attn Warranty Dept. Owner pays shipping to this address, NorthWestMustang pays return shipping.

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.