



## 1. WIRE HARNESS OUTLINE

- a. The system contains four wire harnesses leading out of the control unit which is covered in a **RED** shrink wrap
- b. Each harness is marked with a colored tie
  - i. Power supply
    - (1) **RED** Tie
  - ii. OEM Wire harness connection
    - (1) **Yellow** Tie
  - iii. Right side LED board connection
    - (1) Not marked with a colored tie
  - iv. Left side LED board connection.
    - (1) **Black** Tie

## 2. CONTROL UNIT

- a. the control unit is cover with a lite **BLACK** shrink warp for protection
  - i. although very little heat is generated, do not seal the ends
  - ii. the unit has been coated with a plastic spray for protection
  - iii. ensure the control unit is not installed where it may be damage while loading or unloading items within the trunk
- b. Lay the unit out with long power cord going to the driver's side
- c. The single harness to the passenger's side

## 3. NON SEQUENTIAL OPERATION

- a. If you want to disable the sequence mode a new switch has been added to the control unit
  - i. **Ensure the turn signal arm is centered and not allowing the signal to operate**
  - ii. Push the button once
  - iii. This will turn the sequence mode off
    - (1) Check operation
- b. To return to sequential
  - i. Repeat above
    - (1) check to ensure the sequence operation in now active

## 4. POWER SUPPLY HARNESS

**This system must be connected to a *CONSTANT 12 VOLT POWER SUPPLY*. Due to the size of the board and number of LEDs, this is required to complete each electronic cycle of the turn signal  
**CHECK FOR POWER WITH THE KEY IN ON AND OFF POSITION****

- a. This is the **RED** Tie
- b. Connect to a *constant* 12 volt supply
  - i. this provides power to the LEDs
  - ii. **Red** wire to positive
  - iii. **Black** to ground
- c. Ensure you connect to a fused power supply.
  - i. Your taillight fuse may be used if you wish
  - ii. A fuse tap is included
    - (1) if you attach directly to a trunk mounted battery/power supply, a small inline fuse is recommended.
- d. Any **CONSTANT** power supply in the rear area may be used.

***YOU MUST ENSURE THIS IS A CONSTANT POWER SUPPLY  
CHECK FOR POWER WITH THE KEY IN THE OFF POSITION  
THIS SYSTEM WILL NOT OPERATE WITHOUT POWER***

- e. If your LEDs do not operate when testing, ensure the power wires are connected properly.
  - i. If installed backward, the control unit will not allow power to pass to the computer chip

## 5. CONNECTING TO THE OEM WIRE HARNESS

- a. The OEM harness with the **yellow** tie attaches to the OEM wire harness
  - i. You will find one long black wire coming from the bottom section of the large board
    - (1) both must be grounded

- (2) unless this are grounded, the bottom section will not operate
- b. Beginning with the left turn/brake operation
- c. Place the turn signal handle in the down or left turn signal position with POWER on
- d. **WHILE WORKING IN THE TRUNK**
  - i. Find the **LEFT TURN** wire in the OEM harness nearest the new LED boards
    - (1) this wire goes to the center bulb.
      - (a) this may be the amber colored lens
    - ii. **TURN THE POWER OFF**
    - iii. tap the **black** wire into this wire
      - (1) this operates the brake and turn signal
  - e. Place the turn signal handle in the up or right turn signal position with POWER on
    - i. Find the **RIGHT TURN** wire in the OEM harness nearest the new LED boards
      - (1) this wire goes to the center bulb.
        - (a) this may be the amber colored lens
      - ii. **TURN THE POWER OFF**
      - iii. tap the **RED** wire into this wire
      - iv. this operates the turn signal
        - (1) test for operation
    - f. Turn signal off
    - g. Check for operation
    - h. **Brake light**
      - i. With the brake pedal depressed
        - (1) find the wire carrying the brake light power
          - (a) this is the OEM bulb used in the large lens area
        - (2) tap the **GREEN** wire to the wire carrying the brake light power
        - (3) you only need to tap into one brake light wire
      - i. Turn running lights on
        - i. Find the wire carrying the running light POWER
        - ii. **TURN THE POWER OFF**
        - iii. **ATTACH THE WHITE WIRE**
        - iv. There is only one running light attachment
      - j. There is no grounding wire at this point
        - (1) control unit is the grounding
      - k. Check for proper operation
      - l. Should the right and left side operate backward
        - i. Change the **red** and **black** wire attachment point
      - m. Should the running lights not operate
        - i. Ensure the white wire is attached to a running light powered wire within the OEM harness
  - 6. After testing and ensuring the system works
    - a. ensure the control unit is not installed where it may be damage while loading or unloading items within the truck

## LED BOARD INSTALLATION

- 7. Remove both rear light housings and work on a flat surface such as a work bench or the floor of the trunk
  - a. This makes installation much easier
    - i. Remove lens
    - ii. You will find several clips along the outside of the lens
    - iii. Take care removing the lens as they were **NEVER INTENDED TO BE REMOVED.**
    - iv. Each lens is also held in place with a really nasty sticky glue
      - (1) try to keep this clean as it can be reused when you install the lens again
  - b. You will find there are three LED boards per side
    - i. The larger board fits the large brake light housing
      - (1) **Each large board has a separate black wire**
      - (a) **this must be grounded**
    - ii. The second and third boards are attached with several wires
  - c. The center section of the housing will be used to connect the wire harness
    - i. Push the wire harness thru the center section's OEM bulb opening
      - (1) you may, if you wish, enlarge the hole allowing the cable to pass thru with the EOM plug installed.
      - (2) this will retain the OEM look.
      - (3) ensure you make the hole at the bottom of the hole

- (a) this will allow the wire to be tucked under the housing
  - d. Place board within housing and test for proper operation
    - i. Attach each board to the proper wire harness coming from the control unit
      - (1) the long wire attaches to the right boards
  - e. **The reverse light installs into the reverse light socket**
    - (1) you may need to replace the OEM socket with an 1156 socket or you can cut the end off the plug and hard wire the light
    - (2) **RED** is positive
    - (3) **Black** is ground
  - f. Each board is marked with a LEFT or RIGHT.
    - i. Mustang's right or left looking forward
  - g. After testing for proper operation
    - i. Note where the board fits within the housing
    - ii. Place a clear silicon adhesive within the housing where the LED board will sit.
    - iii. Push the board into the silicon
      - (1) ensure board is level allowing the maximum light to shine
    - iv. After placing the board in the silicon
    - v. Place a bead around the board edge ensuring the board is attached on both sides
    - vi. Allow silicon to set before replacing lens and bezel
      - (1) see silicon instructions for details regarding time needed to set
  - h. Ensure lens seals are in good condition.
  - i. Proper operation of this system was tested prior to shipping.
8. It is ***imperative that the lens gasket is in good condition.***
9. Check lights for proper operation before securing the lens.
- a. Take care not to allow the board to contact metal, which will short out the system.
  - b. Ensure brake, running lights and turn signal operate properly.
  - c. The entire board lights for both tail and brake lights.
10. **It is advised that the LED boards be check periodically for dampness.**
11. 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 THE LENS INTO THE BUCKET**
12. After installing LEDs into the housing
- a. Plug the boards into the control unit
    - i. After checking to ensure proper operation
    - ii. install the lens then housing
  - b. Check for proper operation
13. After testing and ensuring the system works
- a. Ensure the Light is visible behind your Mustang before driving
14. Check local/state laws to ensure there are no restrictions regarding the operation of this system.
15. Should there be a problem with the system, the rear lights will only flash.
16. Enjoy your new LED system!

Should you have any questions, please contact [ClassicLEDs LLC](http://ClassicLEDs.com) at [ClassicLEDs@comcast.net](mailto:ClassicLEDs@comcast.net) or 541.463.7623

### Limited Warranty

All ClassLEDs LLC products are warranted against defective materials and/or workmanship to all original consumer owners from the date of original consumer purchase as long as original purchaser owns the vehicle. In the event of defective materials and /or workmanship, ClassLEDs 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: ClassLEDs LLC, 3128 Marvin Dr. Eugene, OR 97404 attn Warranty Dept. Postage to ClassLEDs paid by owner. Return postage paid by ClassLEDs LLC.

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. ClassicLEDs 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.