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## Pantera Electronics LED Reflector Light Installation Manual

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This LED reflector conversion was designed to enhance the visibility of the Pantera with a Light Emitting Diode Array designed specifically for 1971 through 1974, Pre-L and L- Model Pantera rear lamp housings. These Reflector LED Array's consume very little power yet are brighter than 1157 incandescent lamps. This allows using the Pantera wire harness for additional lighting without concern for exceeding the current limit of the wire size.

### Functional Operation

The Reflector LED Conversion illuminates in 2 modes. When the brakes are applied the LED array illuminates steadily. When the transaxle is in the reverse gear the LED array strobos approximately 3 times a second. During reverse mode if the brakes are applied then the LED array will change to constant illumination.

(Note that these LED Array's are not designed for GT or European type rear signal lights)

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### **IMPORTANT !**

**DO NOT LOOK DIRECTLY AT THE LED ARRAY'S WHEN IN OPERATION, DAMAGE TO THE RETINA CAN RESULT.**

Only view the LED arrays after installation behind the factory Pantera lenses.

Do not touch or clean the LED's, the lenses are fragile.

**Disconnect the battery by removing the negative (-)  
or ground cable from the battery terminal.**

Remove taillight lens by removing 4 Philips head screws. [Image 1]

2) Remove two M10 nuts from the studs that retain the tail light housings. You might want to set-up a work level that allows the taillight housing to rest on while making the modification. If the tail light housing falls and impacts the floor it may crack or break severely. [Image 5]

3) You will need to drill a hole 5/32" [4mm] in diameter in the back of the reflector housing for the 3 wires. [Image 1]

4) Add electrical tape to the back side of the Reflector LED Array so that there is **NO direct contact of the electronics to the reflector housing.** [Image 1]

5) Insert the Reflector LED Array into the reflector housing position, centering the Reflector LED Array in the housing with the 3 wires through the lamp housing.

6) Use the blue connectors to add the Reflector LED Array wires to the matching wires in the harness. [Image 2]

7) Clamp the connector shut with a pair of pliers to complete the connection on the RED and WHITE wires. [Image 2]

8) Crimp an "eye" terminal on the BLACK wire and position on the mounting stud. [Image 3]

8) Use blue automotive silicon RTV to retain the LED array in position, apply in the 4 corners where the LED array contacts the metal reflector. Use electrical tape to hold the LED array in position until the blue automotive silicon RTV cures. You may need to use electrical tape to hold the wires so that the LED Array stays in place until the RTV cures. ***Do not install the lens until the RTV completely cures, this is usually 24 hours at room temperature.*** [Image 4]

9) Repeat the procedure above for the opposite rear light.

10) Repeat the procedure above for the passenger side front signal light.

**Note: perform testing section before step #11.**

11) Replace two M10 nuts from the studs that retain the tail light housings.

12) Install the taillight lens replace the 4 Philips head screws. Do not over tighten the screws, the plastic can be easily cracked.

***The LED array's are NOT designed to tolerate water ingress, make sure the lenses seal properly. Take the necessary steps to improve the sealing surfaces to maintain a water-tight housing. Use silicon sealant if the gaskets are cracked or distorted.***

New tail light lens gaskets can be purchased from:  
**[www.panterasbywilkinson.com](http://www.panterasbywilkinson.com)**

### Testing

Reconnect the negative (-) or ground cable from the battery terminal removed at the beginning of the installation.

1) Turn the ignition switch to the "IGNITION" position (Do not start the engine) and position the headlight switch to "PARKING".

2) Press the brake pedal the LED array should illuminated steadily.

3) Put the shifter in reverse the Reflector LED Array should strobe approximately 3 times a second. ***Note that some Panteras' must have the headlights switch "ON" in order for the reverse lights to operate.*** Do not have the brake pedal applied.

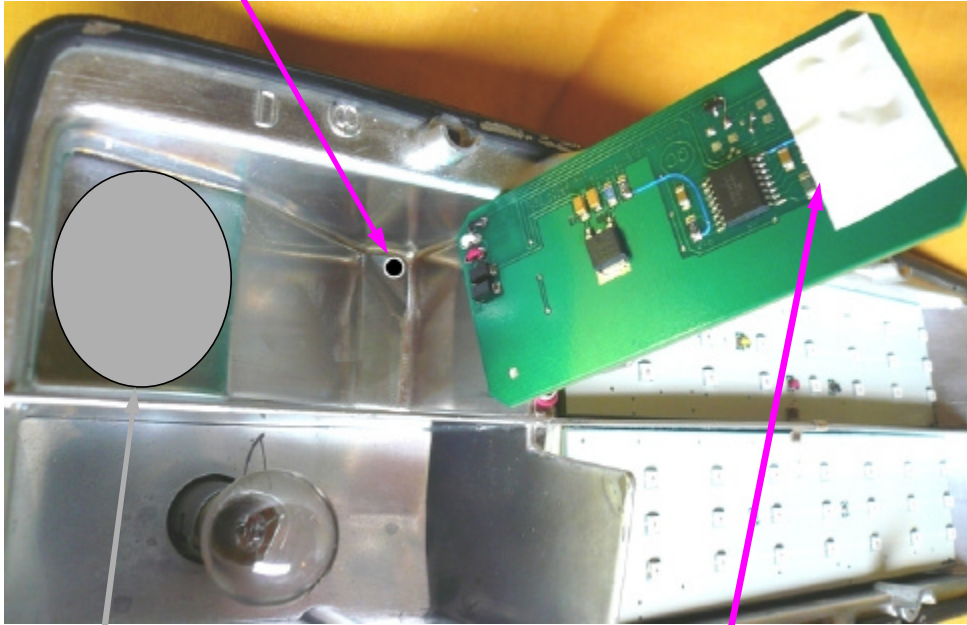
4) While the transaxle is in reverse apply the brakes and the LED array should change to constant illumination.

5) Testing complete.

### Disclaimer

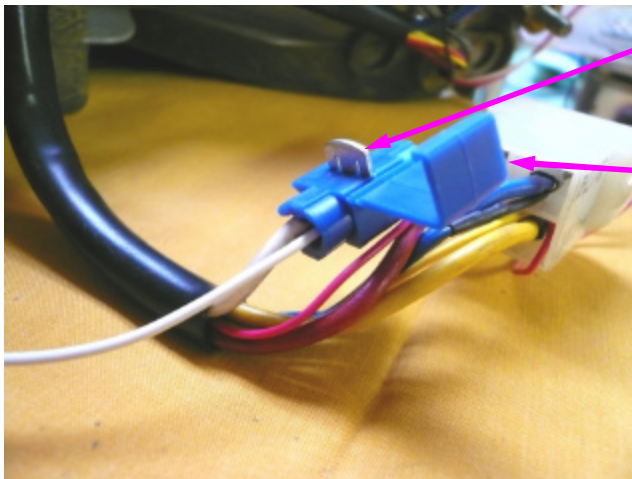
The products from Pantera Electronics have been designed and manufactured with the best quality components known to the engineer. The installation instructions have been written to assist the owner in the proper use and installation of the products. Pantera Electronics can not be held responsible or held liable for the interpretation or incorrect implementation of the products.

Drill 5/32" [4mm] diameter hole in reflector housing. Push the red, white and black wire through hole Image 1



Metalized reflector area, electronics cannot contact this directly Image 1

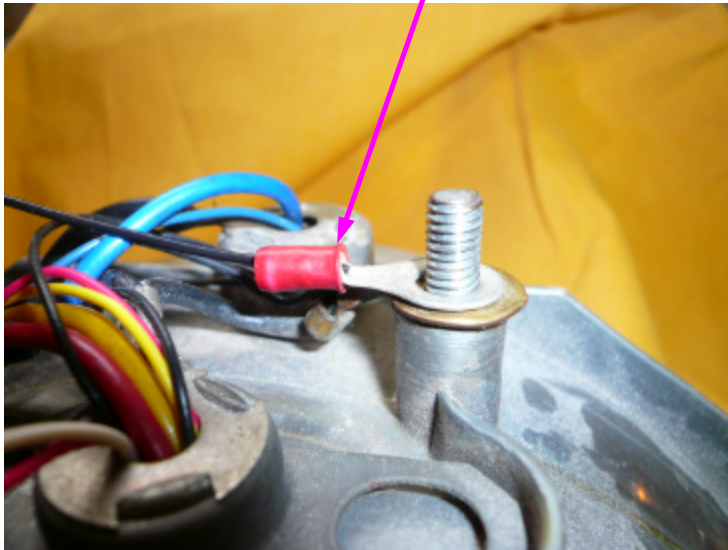
Add electrical tape to insulate electronics from metalized reflector. Image 1



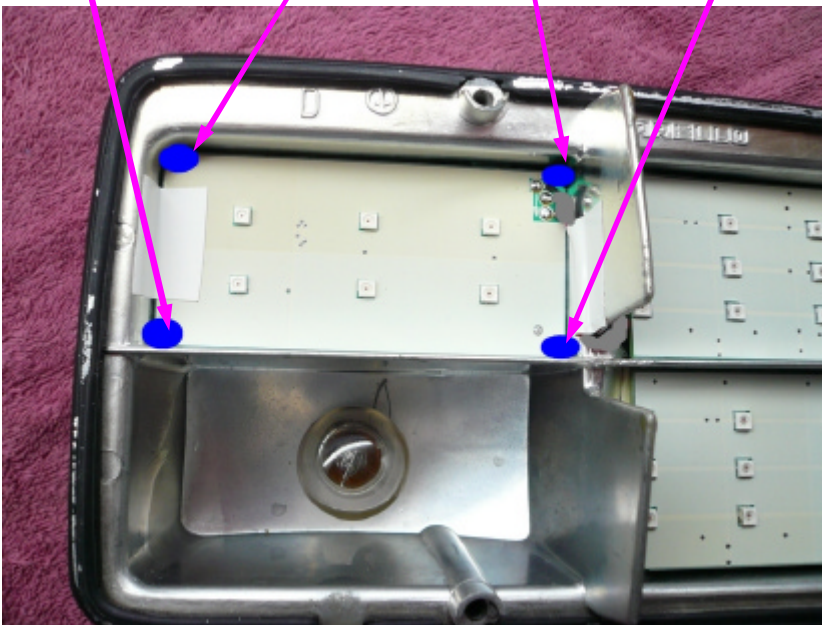
Press clip down with pliers and fold over plastic catch.

Image 2

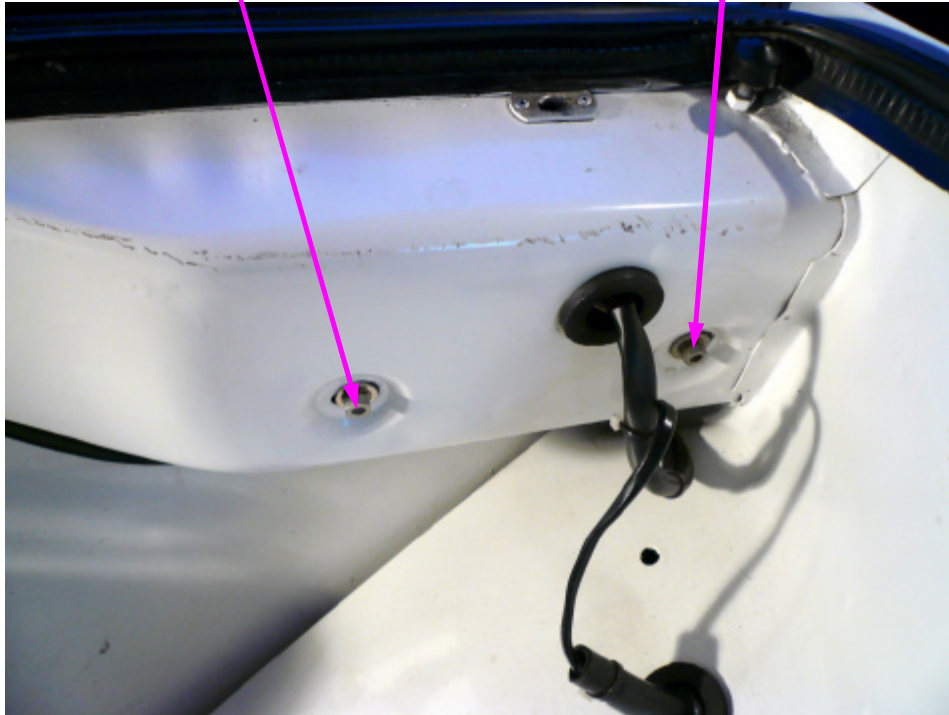
Crimp a eye terminal to the black wire and position on the mounting stud. Image 3



Use blue automotive silicon RTV to secure the Reflector LED Array in the taillight housing. Image 4



Remove two M10 nuts from the studs that retain the tail light housings.  
Image 5



Either of these RTVs are suitable for retaining the LED array in position.  
Image 6





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