

# Marker Light Turn Signal Lens for a WWII Jeep

For safety reasons I wanted turn signals on my restored WWII Jeep. This project does not alter the original light and the old doors can be replaced and the black out wiring reconnected using a GPW two way connector.

Remove the original doors and with some drilling etc. make a pair of amber lenses work.

I took the marker light “bucket” to the auto store and found a lens that fit over it. See the package: Peterson #V142A



Remove the base and bulb from the new lens. I pried things around and broke the glue using a sharp pointed knife.

In the detail picture see #1. Place the new lens over the marker light bucket and mark the slot (#5) and the screw hole (#2 and #6) with a scratch awl or similar tool. Drill about 3 holes in the edge of the new lens that matched the marker light slot. I used about a #56 drill bit. Make a narrow slot to

match the slot in the top of the bucket. Bend a piece of small strap (from an old windshield wiper) to make a retainer. The material is about 1/32” x 1/8”. Use what you have. I started by looking at the tab on the original light door. Start by bending the tab side first (#3) and cut the long side about 3/16” longer than the distance to the edge of the lens. Place the tab in the new slot and bend the remaining strap over the edge of the lens and crimp it down to hold itself in place.

Drill the screw hole using about a #18 drill bit. The screw shank size is 0.164”. (See #2).

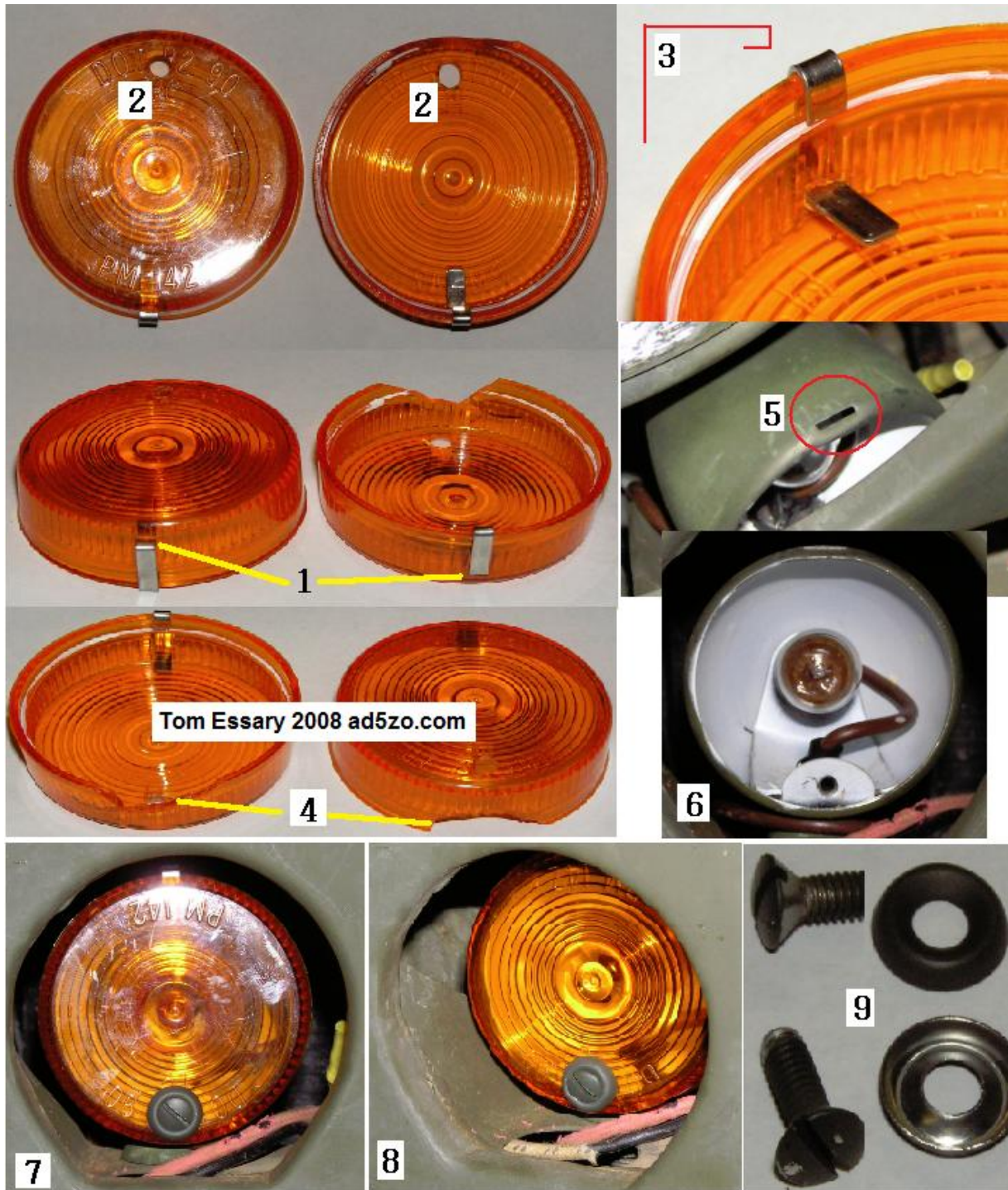
Cut or break away relief for the light base (#4). The base is an oval shaped cone. Remove enough material to clear the base.

A machine screw (Oval Head #8-32 x 1/2”) and finish washer fasten the new lens to the old bucket. (#9) A finish washer accounts for the angle of the screw and protects the lens. Clean, prime and paint all the metal parts. In # 6 see that the inside of the bucket is painted white to reflect some more light from the six volt bulb. I also replace the wire and the brass thimble, washer and spring as provided in my wiring package from Vintage Wiring of Maine.

In the detail photos, #7 and #8 show the completed assembly mounted in the grill of GPW-I00709\* (27 FEB 1943). The turn signals are very bright and visible. I am very pleased with the outcome of the project.

This method certainly will work with other vehicles and light configurations. You cannot stop your imagination. Experiment ... “Measure twice [at least], cut once”. I make a lot of drawings and use digital photos and print them out and draw on them etc.

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Adding an amber lens to a WWII jeep black out marker light.

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| 1. Drill or cut a slot for a metal tab | 2. Drill a hole for the mounting screw         |
| 3. Side view of the bent metal tab     | 4. Cut or break away relief for the light base |
| 5. Slot on top of the light housing    | 6. Inside of the light housing painted white   |
| 7. Assembled light with new amber lens |  |
| 8. Assembled light – oblique view      | 9. Oval Head #8-32 Screws & Finish Washers     |