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"Double-D Hot Slots" Clear Lens Flush Mount, Build- in LED Taillight Kit With LED Backup Lights **#L58-DD-BU**

- ❑ Double-the-Diodes - (2) High Bright 50 LED strips in **each** light with wire leads and hardware for stud mounting. Clear lenses.
- ❑ Works with common brake/turn light or separate turn.
- ❑ (2) preshaped 1/4" thick clear acrylic lenses with diffuser for build-in flush installation, each are 1/2" x 15-1/4".
- ❑ (1) SUPER Bright White Backup Lights in each taillight.

NOTE: This is a build-in kit requiring body working skills and is intended for vehicles that are under construction or modification. 7.10.13

Thank you for buying a StreetWorks product. Be confident that it will provide the quality and performance that you demand for your car. ***Please read and understand all installation instructions before beginning.*** Planning and preparation will make the actual installation process easy and quick.

NOTE: Our lights meet or exceed all requirements for brightness. However state and local laws vary regarding lens size and placement. It is *your* responsibility to assure that the lights are acceptable for use in your state and local.

1. Determine the location for the units. The acrylic lenses will be able to accommodate about 1/4" of total curvature. It may be necessary to modify the surface in the area where the lenses are to be installed so as to accommodate a straighter surface. Do not expect or attempt to bend the acrylic lenses - they will break. Don't mount the units too low or they may be hard to see from behind. The LEDs can be installed either horizontally or vertically as your application determines **but remember** that LED taillights must point straight backwards, that is, horizontally as the vehicle sits level and, preferably, be reasonably close to eye level. Plan as you build so that any spacers or modifications to the sheet metal/fiberglass are done to achieve these end results.

2. Layout the lens slots. We recommend that you first have available (or make) a .500" wide block to use as a test gauge for the slot. **DO NOT** use the acrylic lens as a test gauge nor try to force the lens into place! Carefully layout and then drill/cut the slot opening for the lenses. Drill (2) .500" Diameter holes that are 14.75" apart center-to-center (15.25" total slot width). Then cutout the slot between the holes. NOTE: Standard drill bits do not always make a nice round hole! We recommend that you be conservative and hand work the holes up to the correct size. It is not life-and-death critical that the hole size not get too large, it can be fixed later, but the closer the size, the straighter the edges and the more carefully you do the holes the first time, the better the overall job will be. Properly sized, the lens will cleanly go into the slot with no friction. Remember that there will be a small amount of paint buildup on the edge before final installation.

3. Prepare for LED Housing attachment. We have included screws for use as studs for attaching the LED Housings. These should be welded, fiberglassed or epoxied into the body - BE SURE that they are absolutely secure. To best determine the stud location, temporarily tape a lens into the hole and then place the housing over the lens/diffuser. You will notice that the housing goes over the diffuser and "self-locates". Mark and install the studs. In many cases you may tape the lens FROM THE OUTSIDE IN to do the marking so that it will be easier to see and mark for the studs. If the LED's are going to be properly horizontal for best viewing, the studs will also be very close to horizontal. Double check all fit and alignment before proceeding.

4. Body work. The entire area around and including the lens hole should be worked to the exact contour you want for the finished surface. This will reduce the amount of work needed after the lens is installed.

5. Lens Installation. With steps #2, #3 and 4 above completed, permanently epoxy the lenses into place. Be very careful not to use too much or to get the epoxy in the way of subsequent housing installation. Add filler around the lens as needed and carefully work it down to the final lens level. (**IMPORTANT TIP**: You want to get final color on the surface immediately around the acrylic lens AS SOON AS POSSIBLE (preferably, BEFORE lens installation) to prevent subsequently sanding through to reveal filler or primer. You want the last sanding of the lens to leave the lens surface perfectly flush with **color paint**. Otherwise, primer or filler will show.) Do the bodywork to "flush" the lenses to the body as one unit - carefully block sanding so as not to work the acrylic lower than the surrounding surface. When getting "close" to smooth, shoot with color and wet sand back smooth. Repeat and again wet sand back smooth to reveal all of the lens. Finally, clear coat over the paint, lenses and all then finish sand/polish. (You may mask off the lenses before painting if you prefer.) Repeated clear coats may be needed to buildup and smooth the area.

"Double-D Hot Slots" Flush Mount Kit , #L58-DD-BU Instructions - continued

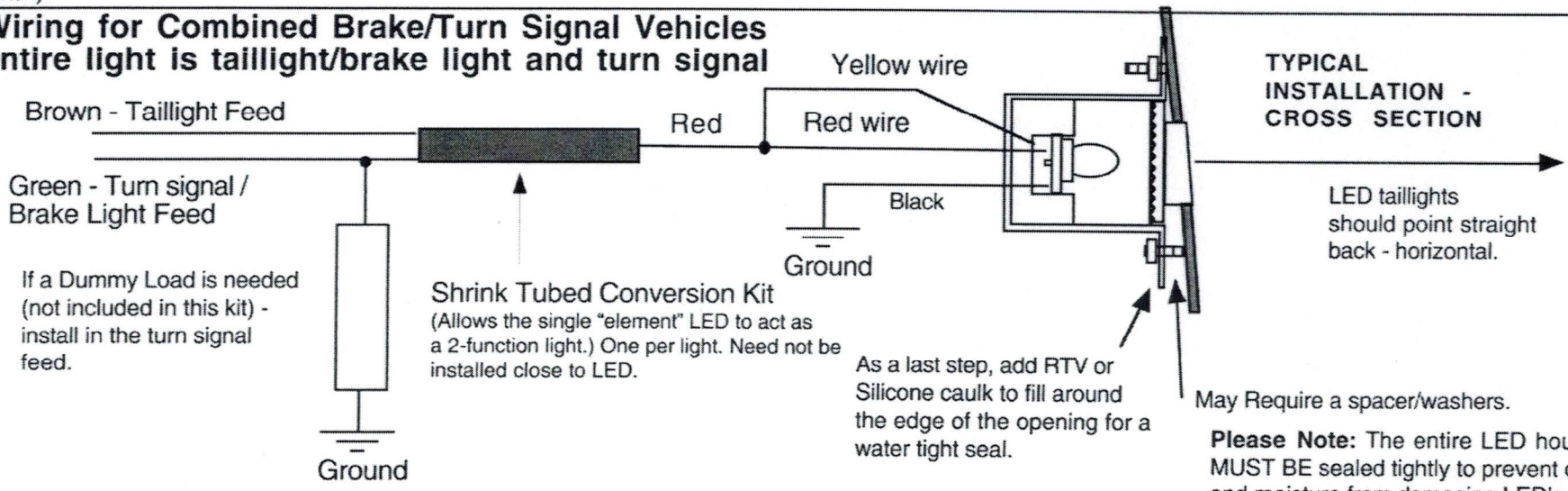
3.15.13

6. The LED Housings are aluminum and should be primed/painted on the outside to prevent corrosion. Install using the hardware provided. A small amount of RTV or silicone caulk may be desirable to assure a watertight seal.

7. Wire per the diagrams below. Note whether your vehicle has combined brake/turn signals (like a single 1157 bulb would) or separate turn signal. We have wired each light so that you have maximum flexibility to wire the light as you want it. There are 5 wires for each light (not including the backup light wires) - black is ground, the yellow wires are for each bank of 20 LED's (20 on top and 20 on the bottom), the red wires are for each bank of 30 LED's (30 on top and 30 on the bottom). You may combine the strip segment as you want. Any segment that is to be BOTH taillight AND brake or turn must go to the red wire on the Conversion Kit. Segment(s) that are to be turn signal ONLY do not go to that wire but are wired directly to the turn signal feed wire. See the diagrams below.

8. Backup Lights- Connect the black wire to ground and the red wire will connect to your +12vdc backup source.(backup wire from the transmission or a On/Off switch)

Wiring for Combined Brake/Turn Signal Vehicles entire light is taillight/brake light and turn signal



Please Note: The entire LED housing MUST BE sealed tightly to prevent dirt and moisture from damaging LED's and voiding your warrantee.

NOTE: When using LED taillights with standard flashers, the LED may not draw enough amperage to work the flasher (unless you have regular bulb front end turn signal lights). If there is a problem, you will need either a "dummy" load or special flasher unit (not included in this kit).

Wiring for having Separate Turn Signal and Taillight/Brake Light Segments