Watson's
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**Small "Hot Slot" Flush Mount, Build- in LED 3rd Brake Light Kit with Turn Signals (split 10-10-10 LED's)** **#L58SMBT**

Kit includes:

- ❑ (1) High Bright 30 LED 3rd Brake Light unit split 10-10-10 to include turn signals, aluminum housing, wire leads and hardware.
- ❑ (1) preshaped 1/4" thick red acrylic lenses with diffuser for build-in flush installation with 1/2" x 7-1/2" size.
- ❑ No complicated control module required.

**NOTE**: This is a build-in kit requiring body working skills and is intended for vehicles that are under construction or modification. Rev 2.1.10

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.

A Third Brake Lights is one of the best safety features that you can add to your vehicle. Our 30 LED light is one of the easiest to use 3rd brake lights available in the street rod industry, today.

**1. Determine the location for the unit**. The acrylic lens will be able to accommodate about 1/4" of total curvature. It may be necessary to modify the surface in the area where the lens is to be installed so as to accommodate a straighter surface. Do not expect or attempt to bend the acrylic lens - it will break. Don't mount the unit too low or it may be hard to see from behind. The LED is intended to be installed horizontally **and remember** that LED brake lights 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. **ALL contour body work** must be done before starting to cut the slot or install the lens.

**2. Layout the lens slot**. 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 lens. Drill (2) .500" Diameter holes that are 7.00" apart center-to-center (7.50" 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 hole 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.

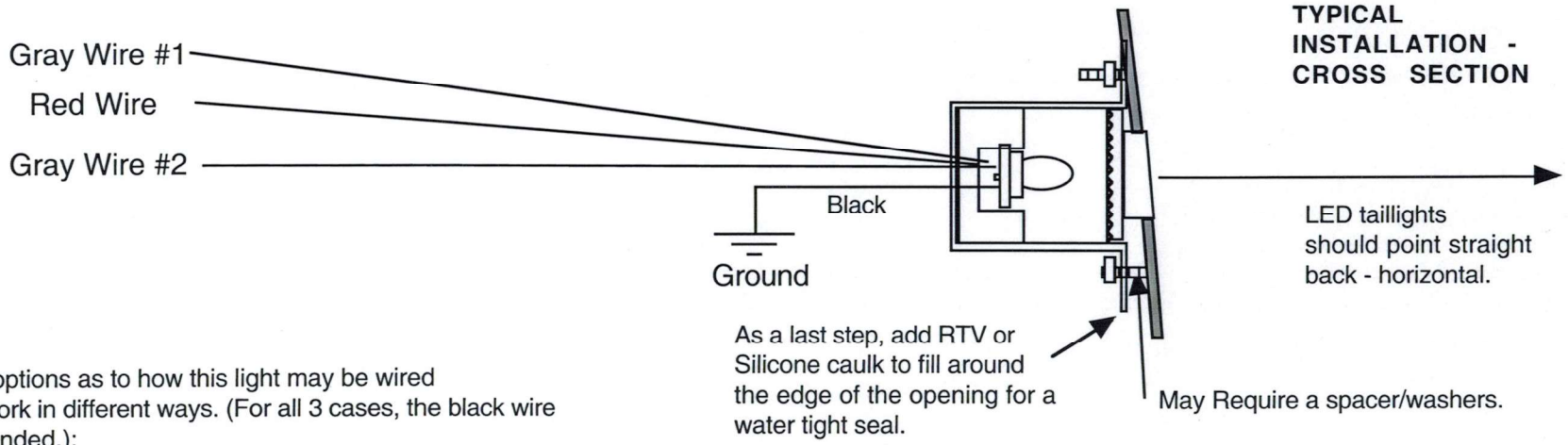
**3. Prepare for LED Housing attachment**. We have included screws for use as studs for attaching the LED Housing. These should be welded, fiberglassed or epoxied into the body - BE SURE that they are absolutely secure. To best determine the stud location, temporarily tape a lens into the hole and then place the housing over the lens/diffuser. You will notice that the housing goes over the diffuser and "self-locates".(A small amount of filing may be needed to the clear diffuser plastic.) 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. The LED's must point straight backwards to be seen properly.

**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. Before installing the lens, make sure the hole(s) is burr free and shoot the slotted hole with color paint.

**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 epoxy or to get the epoxy in the way of subsequent housing installation. (**IMPORTANT TIP**: You wan to get final color on the surface immediately around the acrylic lens AS SOON AS POSSIBLE 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**.) 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. Color paint should be used to "fill" any remaining cracks or voids. 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 but avoid excess build up on the edge.) Repeated clear coats may be needed to buildup and smooth the area.

**6. <u>The LED Housing</u>** is aluminum and should be primed/painted on the outside to prevent corrosion. Install using the hardware provided. A small amount of RTV or silicone chalk may be desirable after installation to assure a watertight seal.

**7. <u>Wire per the diagram and options below</u>**. Then reconnect power and check the light function.




There are (3) options as to how this light may be wired so that it will work in different ways. (For all 3 cases, the black wire is always grounded.):

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

**1. To have the unit work as intended, that is; the left 10 LED's will flash with the left turn signal and act as a brake light when that turn signal is not on, and, the right 10 LED's will flash with the right turn signal and act as a brake light when that turn signal is not on. The center 10 LED's are always brake light only. (With no turn signals on, all 30 LED's are brake light) -**
Attach one of the gray wires to the rear left turn signal/brake light feed and attach the other gray wire to the rear right turn signal/brake light feed. Attach the red wire to the "3rd Brake Light" feed of the fuse panel or directly to the brake light switch (or switch relay) output. This is for "standard" American type lights using one 1157 bulb or similar with brake light override circuitry built into the turn signal mechanism.

**2. To have the left 10 LED's act as a left turn signal light only and the right 10 LED's act as a right turn signal light only. The center 10 LED's are always brake light only. -**
Attach one of the gray wires to the front left turn signal feed (or the left dash indicator light feed) and attach the other gray wire to the front right turn signal feed (or the right dash indicator light feed). Attach the red wire to the "3rd Brake Light" feed of the fuse panel or directly to the brake light switch (or switch relay) output.

**3. To have the entire unit (all 30 LED's) work as a 3rd brake light only -**
Connect the two gray wire leads and the red lead wire together and feed directly from the "3rd Brake Light" feed of the fuse panel or directly to the brake light switch (or switch relay) output.