



## **Model A Ford Third Brake Light Installation Guide**

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## INTRODUCTION

Thank you for purchasing a Logo Lites® LED Third Brake Light Kit. Your third brake light kit was built to high quality standards to provide you with years of reliable service. This manual should serve as a guide for installing a third brake light kit on your vehicle. Although this guide is thorough, each installation is different, so it can not cover all applications.

You can install the turn signal kit yourself IF:

1. you have the right tools,
2. you have a reasonable mechanical and electrical aptitude or experience,
3. you have the knowledge or diagrams of where wiring, fuel lines, etc. are located in the vehicle,
4. and you read and follow the instructions very carefully.

## SAFETY INFORMATION

- Read the instructions completely before starting the installation of your third brake light kit.
- Never attempt automobile wiring without first disconnecting the battery from the chassis.
- When using power tools such as a drill, be sure to use the proper safety equipment (eye protection, etc.). Always follow manufacturer's recommendations when using power and hand tools.
- **The installation discussed is for reference only and does not indicate that any particular configuration will be safe for all vehicles. A safe and secure installation is solely the responsibility of the installer!!**

## TOOLS NEEDED

- ◆ Common wrenches and screwdrivers
- ◆ Wire crimp tool
- ◆ Wire cutter
- ◆ Wire stripper

## OVERVIEW

This kit provides all the necessary parts to install a Logo Lites ® LED Third Brake Light Kit on your Model A Ford. The third brake light mounts to the back window with two suction cups. The wires connect to the brake light switch and the frame. Generally, the wires are routed from the third brake light, behind the seat, to the frame, and forward to the brake light switch area. The third brake light works on 6 or 12 Volt cars with positive or negative ground.

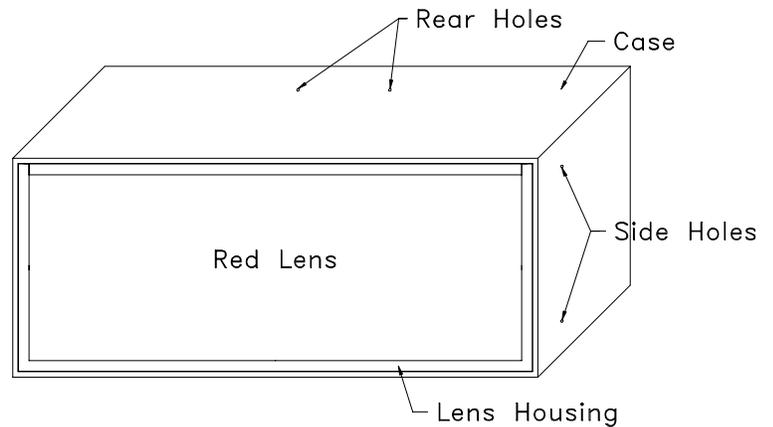
## HARDWARE COMPONENTS

Qty	Item	Qty	Item	Qty	Item
1	LED Third Brake Light	2	Suspension Arms	2	#8 Studs
15'	Red & Black Wire	2	Side Mounts	4	#8 Self Tapping Screws
1	Fuse Holder	2	Window Mounts	4	#8 Machine Screws
1	1 Amp Fuse	2	Suction Cups	4	#8 Machine Nuts
1	Red Hook Terminal	2	Brass Nuts	1	Hex Driver
1	Large Ring Terminal				

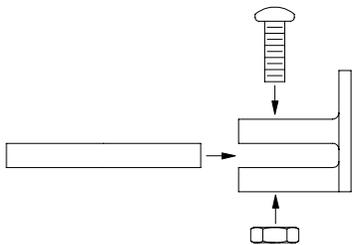
## INSTALLATION

### STEP 1 ASSEMBLE THIRD BRAKE LIGHT

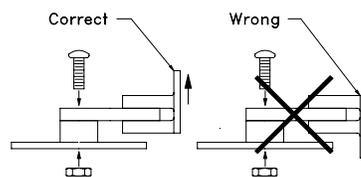
1. Look at the third brake light and be sure the red lens housing is flush or recessed into the case. If not, place the unit face down on a flat surface and press gently on the back of the case, until the case and lens housing are flush.
2. Thread four #8 self-tapping screws into the four side holes in the case using the hex driver (see Figure 1). Under the surface, the holes are much larger, and should thread easily once the screws are started. Once the screws have started, thread them down approximately three turns.
3. Remove the screws from the case. The holes are now threaded and will make later assembly easier. Carefully remove any flashing that may be sticking up from the case.
4. Using a #8 machine screw and a #8 machine nut, loosely assemble a suspension arm to a window mount (as shown in Figure 2). Repeat for the second suspension arm and window mount.



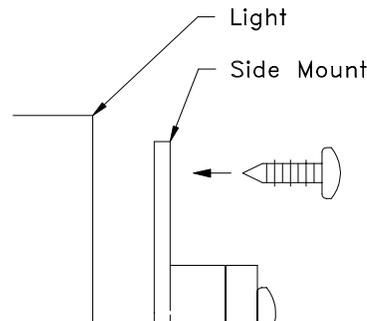
**Figure 1 - Hole Locations**



**Figure 2 - Suspension Arm & Window Mount**



**Figure 3 - Assemble Arm to Side Mount**



**Figure 4 - Attach Side Mounts**



**Figure 5 - Suspension Assembly**

5. Using a #8 machine screw and a #8 machine nut, loosely assemble the other end of the suspension arm to a side mount. Make sure that the “foot” of the window mount is pointed away from the side mount, as shown in Figure 3. Repeat for the second arm and side mount.
6. Thread the brass nuts onto the two provided studs. Then thread each stud *through the window mount* and into the back of each suction cup. Only tighten the nut and stud assembly just until the suction cup is no longer able to spin. Each completed assembly should look like Figure 5.
7. Attach the side mounts to the case with the four #8 self-tapping screws as shown in Figure 4. Make sure you attach the assembly such that the “U” shaped groove in the window mount faces downward. The completed assembly should look like Figure 6.



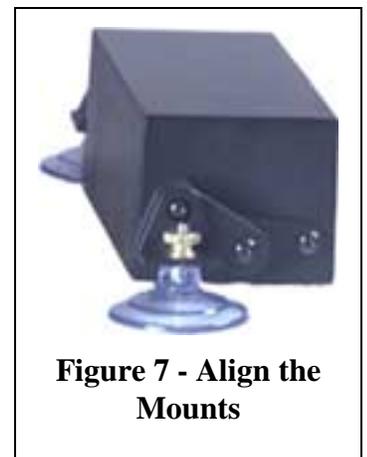
**Figure 6 - Completed Assembly**

### **STEP 2: MOUNT THE THIRD BRAKE LIGHT**

Lay the third brake light on its face as shown in Figure 7. Tighten the two pivot screws on each side so that the suction cups are flat to the workbench. Now the third brake light is prepared to be attached to the window. Wet the suction cups and press them firmly to the back window of your Model A. Make sure the light is centered in the window from left to right for maximum visibility. For best driver visibility, the third brake light usually works best at the bottom of the window. The face of the third brake light should make contact with the back window. Some minor tweaking of the two pivot screws on each side of the case may be needed to ensure full suction cup compression and contact of the face to the window.

### **STEP 3: ROUTE THE WIRES**

Remember, all vehicles are different. The information given on mounting are guidelines only. You really must take time and determine the best method for routing your wires in your vehicle.



**Figure 7 - Align the Mounts**

Connect the 15' red and black wire to your third brake light. Snap the quick disconnect connector together all the way. This connector is keyed, so if it will not go together, try it the other way.

The easiest place to connect to the third brake lights is normally at the stop light switch. Usually, the easiest way to route the wire is behind the seat, through the floor, along the driver's side frame rail, to the stoplight switch. On '28-'29 style cars, the stoplight switch is located on the driver's side of the transmission. On '30-'31 style cars, the stoplight switch is located behind the rear end of the pedal to cross shaft rod. The pedal to cross shaft rod is the adjustable rod that goes from the brake pedal to the cross shaft.

At the third brake light, make sure you leave yourself a little slack in the wire so that you can tuck away and hide the wire when the brake light is removed from the car. Although routing the wires can usually be done without drilling any holes, if you do decide to drill a hole, **make sure that there are no wires, fuel lines, glass, or brake lines where you are making the holes.**

*Tip: Tie wrap the third brake light wires to the car's brake light harness to hide and protect the third brake light wires.*

## STEP 4: MAKE THE ELECTRICAL CONNECTIONS

### Determine Your Chassis Polarity

It is very important to determine if your Model A is positive or negative chassis. Although Model As came from the factory as positive chassis, many of them have been converted to negative chassis over the years. Start by looking at your battery, which is located under the floor of the passenger compartment. There are two battery cables. One is connected from the battery to the starter. The other cable is connected from the battery to the frame. The cable that connected to the frame from the battery will indicate which polarity your chassis is. Look at the battery where the cable from the frame connects. If there is a + marked on the battery, you have a **positive** chassis. If there is a - on that connection of the battery, you have a **negative** chassis. Once you have determined your chassis polarity, follow the appropriate instructions below. **CAUTION! -- Before proceeding any further, disconnect the side of the battery that connects to the chassis.**

### General Connection Information

You will be splitting the two wires apart at the stoplight switch. One will connect to the chassis and the other will connect to the back terminal of the stoplight switch. On '28-'29 cars, the chassis connection will be made by putting a ring terminal under the head of one of the bolts that holds the stoplight switch to the transmission. On '30-'31 cars, the chassis connection will be made by putting a ring terminal under one of the bolts that holds the stoplight switch to the crossmember. Cut the wire to a length that will allow both the chassis connection and the connection to the stoplight switch. We suggest that you leave an extra inch or two of wire in length to make it easy to assemble. Cut the pair of wires apart approximately 1/4", then take one wire in each hand and slowly split the wires apart (like peeling a banana) until you have approximately 12" of the two wires split apart.

### Positive Chassis Electrical Connection

**Black Wire:** Strip 0.250" - 0.375" (1/4" to 3/8") of insulation off the end of the black wire. Twist the conductor strands together. Insert the twisted conductors into the supplied red hook terminal until it stops. Where the wire goes into the crimp connector, the wire goes through a large barrel and then a small barrel. Using a crimping tool, crimp the wire in place in the small barrel. Next, crimp the outer most barrel (the large barrel) for mechanical strength. Loosen the rear terminal of the stoplight switch, slip in the red hook terminal, and re-tighten the stoplight switch.

**Red Wire:** Strip 0.250" - 0.375" (1/4" to 3/8") of insulation off the end of the red wire. Twist the conductor strands together. Insert the twisted conductors into the supplied ring terminal until it stops. Using a crimping tool, crimp the wire in place in the barrel. Remove one of the stoplight switch mounting bolts, insert the bolt through the ring terminal, and re-install the stoplight switch mounting bolt.

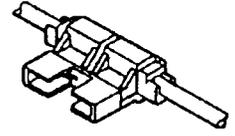
### Negative Chassis Electrical Connection

**Red Wire:** Strip 0.250" - 0.375" (1/4" to 3/8") of insulation off the end of the red wire. Twist the conductor strands together. Insert the twisted conductors into the supplied red hook terminal until it stops. Where the wire goes into the crimp connector, the wire goes through a large barrel and then a small barrel. Using a crimping tool, crimp the wire in place in the small barrel. Next, crimp the outer most barrel (the large barrel) for mechanical strength. Loosen the rear terminal of the stoplight switch, slip in the red hook terminal, and re-tighten the stoplight switch.

**Black Wire:** Strip 0.250" - 0.375" (1/4" to 3/8") of insulation off the end of the black wire. Twist the conductor strands together. Insert the twisted conductors into the supplied ring terminal until it stops. Using a crimping tool, crimp the wire in place in the barrel. Remove one of the stoplight switch mounting bolts, insert the bolt through the ring terminal, and re-install the stoplight switch mounting bolt.

## STEP 5: INSTALL THE FUSE HOLDER AND FUSE

1. Locate the wire connected to the rear terminal of the stoplight switch that you just installed in the previous step. About 6" from the switch, cut this one wire in two.
2. Crimp the end of the hanging 6" stoplight switch wire to blue fuse holder (see tip below if you are not familiar with this type of fuse holder).
3. Crimp the other end of the wire you just cut into the opposite end of the fuse holder.



**Figure 8 - Fuse Holder**

*Tip: If you are not familiar with this type of fuse holder, then hold it in your hand with the two metal pieces at the top and facing you. The wires go into the fuse holder at the bottom, through the holes from the left and from the right. Push one wire into the right side until it hits the middle stop, you may have to twist the wire to get it to go into the hole. Now take the piece on the top right (with the metal in it) and fold it towards the wire until it contacts the wire. Now take a pair of pliers and press it the rest of the way down until the latch catches. Repeat this for the wire on the left side.*

4. Insert the provided 1 Amp fuse into the fuse holder.
5. Re-connect the automobile battery.

## REMOVING THIRD BRAKE LIGHT

To remove your Logo Lites LED Third Brake Light, disconnect the connector near the brake light by releasing the latch and pulling the two connectors apart. Pull lightly on the tabs on the two suction cups to remove the vacuum and release the third brake light.

## TROUBLE SHOOTING

Cause	Test	Solution
Disconnected or dead battery	Check if head lights work	Connect battery, clean terminals, or charge
Bad brake light switch or vehicle fuse	Check if regular brake lights work	Check fuse or replace brake light switch
Incorrect wiring	Check against instructions in Step 4	Re-wire as stated in Step 4
Blown third brake light fuse	Remove fuse and test	Check wire for abrasions or short to chassis. Replace fuse. <b>Unit can safely use 1, 2, or 3 Amp fuse.</b>
Bad chassis connection	Run wire from battery's chassis connection to third brake light chassis connection	Clean chassis connection/relocate chassis connection
Bad connections	Check all connections from vehicle wiring to third brake light	Fix or clean bad connections
Brake light stays on continuously	Check connections to stoplight switch	Move hook terminal to opposite post of stoplight switch
Open connector	Check the quick disconnect connector near the third brake light	Ensure the connector is pushed all the way together to make contact

If you have confirmed that none of the above are causing the third brake light not to illuminate, call the Consumer Hot Line shown on the front of this manual.

## REPLACEMENT PARTS GUIDE

P.N.	NAME	DESCRIPTION	PRICE
236-508	Fuse	2 each, ATO 1 amp blade fuses	1.95

Prices are in U.S. Dollars, are subject to change, and do not include shipping or handling charges. To order, call your Logo Lites dealer, or call the Consumer Hot Line shown on the front of this manual.

## LIMITED WARRANTY

Creative Connections, Inc. (hereinafter "CCI") warrants to the Purchaser of this unit that this unit will be free of defects in workmanship and materials for a period of one (1) year from the date of purchase. "Defects" as used herein, refer only to those imperfections which impair the utility of the product. Defective units reported or returned to CCI within one (1) year from date of purchase will be exchanged or repaired without charge at the option of CCI.

This warranty is limited to the repair or exchange of the product and does not cover and CCI will not pay nor provide any other benefit or service including labor or materials which may be necessary to remove or replace a defective unit. CCI shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use or failure of this product. It is the user's responsibility to determine the suitability of this product for its intended use. User assumes any and all risk or liability in connection with the installation and use of this product. This warranty does not apply to any defects resulting from abuse, negligence, intentional damage, modification, improper installation, unreasonable use, exposure to elements, or over-tightening of fasteners.

Defective units should be reported directly to CCI and not to your retailer. Contact CCI through the Consumer Hot Line through the telephone number shown on the front of this manual or write to the address shown on the front of the manual. Identify the Logo Lites product purchased, the date and location of purchase, and the nature of the alleged defect. Do not ship your product back to CCI unless and until specifically directed to do so. Shipping instructions will be provided to you at the appropriate time. All defective products returned must be accompanied by proof of purchase.

This warranty is not transferable and applies only to products sold within the United States of America, the District of Columbia, the Commonwealth of Puerto Rico, territories of the United States, and Canada.

**THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. CCI SHALL NOT BE LIABLE TO ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY OR OTHERWISE, APPLICABLE TO THIS PRODUCT, SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS LIMITED WARRANTY.** 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.