

# BRAKE LIGHT SWITCH BRACKET AND WIRING KIT INSTALLATION INSTRUCTIONS #751510



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ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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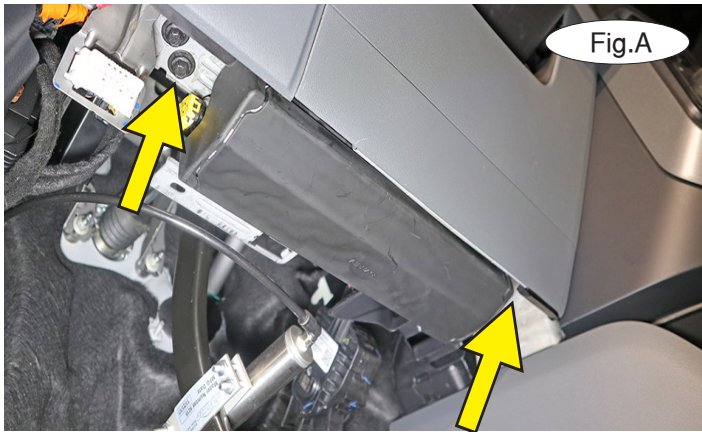


Fig.A



Fig.B

1. On each side, remove two 10mm bolts attaching the airbag sensor to the lower dash panel (Fig.A). *Note:* The passenger side bolt's approximate location is indicated with the right arrow. Now, let the airbag hang down out of the way for now (Fig.B). **IMPORTANT! Under no circumstance should you unplug the air bag.**

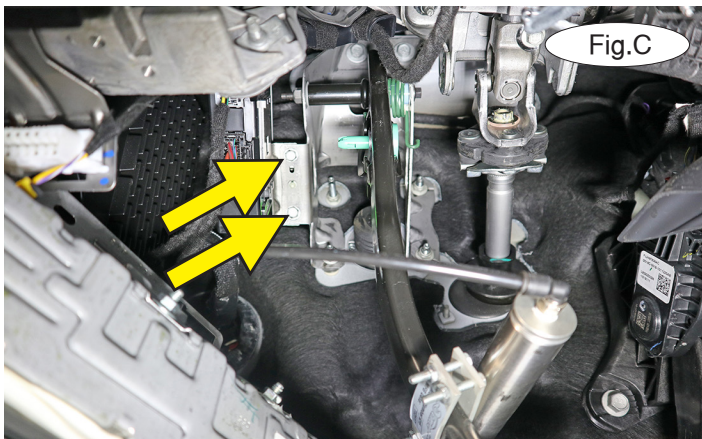


Fig.C

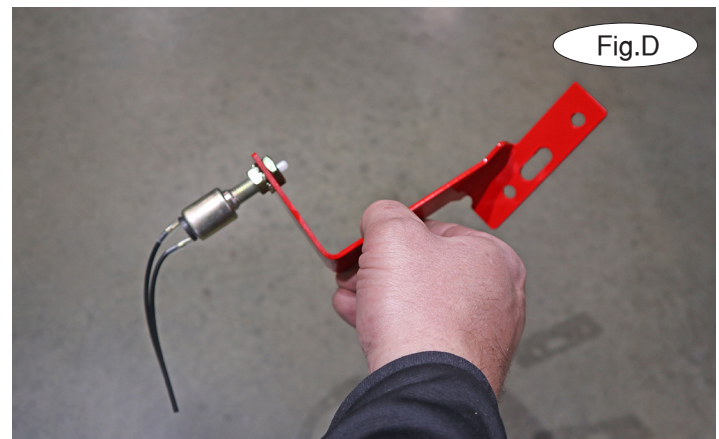


Fig.D

2. Remove two 10mm bolts attaching the control box to the brake pedal cage (Fig.C).
3. Install and wire the brake light switch according to the instructions provided with it. Loosely install the switch onto the bracket as shown (Fig.D). Be certain to adjust as necessary to allow for proper activation of the plunger on the switch. Ensure that the plunger is fully depressed once the bracket has been installed.
4. Place the bracket over the two mounts exposed, ensuring that the locator tab for the control box nests inside the cutout on the bracket (Fig.E). Due to manufacturing variances, you may need to bend the bracket to allow it to sit centered over the pedal. *Note:* When it's installed correctly, the bracket and switch will be mounted above the servo motor on the brake pedal arm (Fig.E).

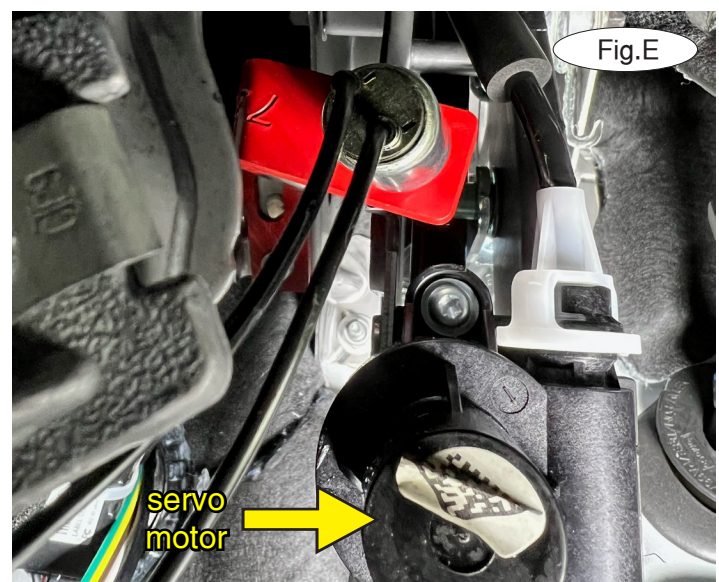


Fig.E



Time Tested • Time Proven

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# metal Brake Light Switch

part number 300188-00

## Installation Instructions

All specifications are subject to change without notice.

### Purpose of this kit

This kit is necessary if...

...you are installing a supplemental braking system with a monitor and the brake lights do not function when the vehicle is in the "tow" mode.

...you are installing a supplemental braking system and the vehicle is equipped with a "retained accessory power" feature. (With this feature, the vehicle's electronics continue to function normally for about ten minutes after the ignition is turned off. Then the electronics will no longer function, which shuts off power to the OEM brake light switch.)

### Step A – Install the brake light switch

1. Thread the first adjusting nut (Figure A) onto the brake light switch.
2. Slide the threaded side of the brake light switch through the brake light switch mounting bracket.
3. Position the star washer against the bracket.
4. Thread the second adjusting nut onto the brake light switch. (Do not fully tighten the nut at this time.)
5. With the brake light switch in position, attach the mounting bracket – refer to the vehicle-specific instructions that are attached to these instructions.
6. Preliminary adjustment to the brake light switch – make certain that the brake pedal is not depressed. Then turn the adjusting nuts until the white plunger at the end of the brake light switch is completely depressed, as shown in Figure A.

### CAUTION

The brake light switch must be installed as directed above. If it is not, it may cause a dashboard error message.

Additionally...

- The plunger must be completely depressed against the brake arm. Otherwise, it may cause a false brake light signal at the monitor.
- The brake pedal must not be depressed when the brake light switch is installed. If it is, the brake pedal may depress the towed vehicle's brakes continuously, which will cause excessive brake wear, brake system damage or other consequential, non-warranty damage.

### Step B – Select a power source

Power for the switch can come from either the battery or the fuse block. The fuse block is typically an easier connection.

#### Option 1 – Power from the fuse block

Identify a fuse that is constantly powered when the

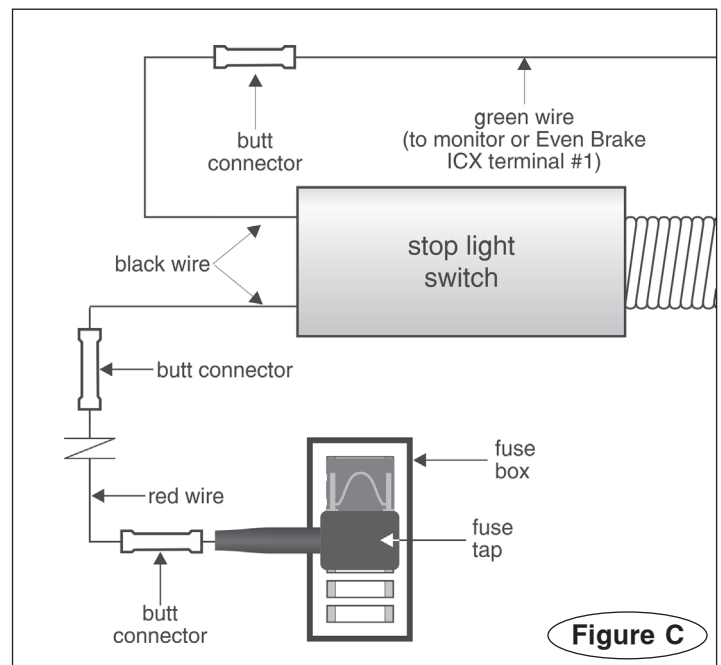
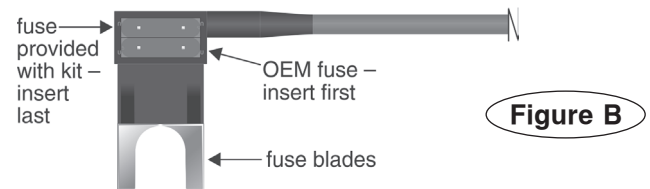
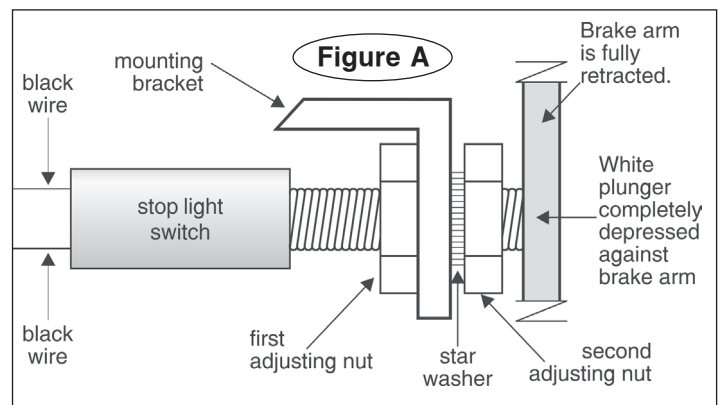
ignition is in the "tow" position. Pull the fuse.

*Note: make certain this fuse is not part of a "retained accessory power" circuit – see "Purpose of this kit," above.*

Insert the fuse you just pulled into the slot closest to the fuse blades (Figure B), then insert the fuse tap into the empty slot in the fuse box (Figure C).

Proceed to Step C.

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### Option 2 – Power from the battery

Use the provided ring terminal to connect a fuse holder to the positive terminal on the vehicle's battery (Figure D).

*Note: if a fuse holder is included in this kit, the manufacturer has recommended disconnecting the battery of one or more makes of this vehicle to tow.*

*Note: if the vehicle's battery must be disconnected for towing and a Roadmaster battery disconnect device has been installed, make certain that the ring terminal is connected to the positive side of the battery disconnect device. If it is, then 12VDC+ will be present when the battery is disconnected.*

Proceed to Step C.

### Step C – Connect to power

1. Use the provided red wire and butt connectors to connect the fuse holder or fuse tap (depending on which power source you chose) to either one of the black wires extending from the brake light switch (Figure C or D).

2. Insert the provided 10-amp fuse into the fuse tap or fuse holder.

### Step D – Final adjustment to the brake light switch

1. Attach a circuit tester or volt meter to the other black wire extending from the brake light switch.

2. Rotate the switch in or out until it takes approximately 1/8" of brake pedal travel to register 12VDC+ on your tester.

3. With the vehicle's engine on, verify that the brake lights illuminate properly when the brake pedal is depressed.

*Note: if, after installation, the supplemental brake monitor light flickers on and off while towing, readjust the switch.*

*Note: if the monitor light does not function, check the brake light switch first.*

4. Once adjusted, tighten both nuts.

### Step E – Wire the switch to the motorhome monitor

1. For Even Brake **only** – connect the green wire to the terminal marked "1" on the Even Brake ICX transmitter (Figure D).

2. For all ROADMASTER braking systems **except** Even Brake – using a butt connector, connect the remaining switch wire to the motorhome monitor wire. Use the green wire if you need to extend the wire length.

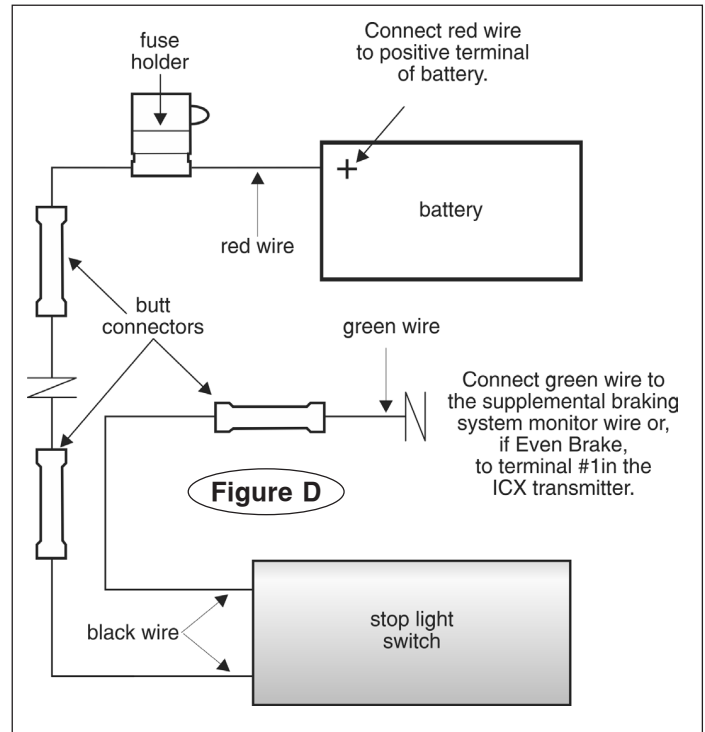
### Step F – Test for clearance

With the engine on, depress the brake pedal to its farthest extent, then allow it to fully return. Make certain that the brake light switch bracket or other kit components do not impede the full and complete movement of the brake pedal.

### WARNING

**When the installation is complete, verify that the brake pedal retracts fully.**

**Unless they are installed correctly, the bracket wiring and/or other kit components may impede the movement of the brake pedal.**



**If the brake pedal does not retract fully, the brakes will be applied continuously, which may cause severe tire and/or brake system damage, as well as other consequential, non-warranty damage.**

**Failure to follow these instructions may cause property damage, personal injury or even death.**



*Technical Service  
Information Bulletin  
2/14/23 (rev. 3/28/23)*

**Subject:**  
**Overbraking issues on Ford Broncos,  
F150s and Expeditions when using a  
supplemental braking system**

TSIB number 158.1

# IMPORTANT

**Before installing this braking system, read the following information:**

The Electronic Brake Booster (EBB) used in some late model Ford vehicles keeps the power brakes active even with the vehicle off or in 'Neutral Tow Mode.' To prevent severe brake damage, vehicles with Electronic Brake Boosters must follow Ford's Technical Service Bulletin 22-2360 before using any supplemental braking system on the vehicles below:

'21 and later Bronco  
'22 and later Expedition  
'22 and later F-150  
'22 and later F-150 Raptor



*scan QR code or visit:  
[roadmasterinc.com/pdf/ford\\_tsb.pdf](https://roadmasterinc.com/pdf/ford_tsb.pdf)*

This bulletin specifically addresses Ford Broncos; however, the problem is also known to exist on the above vehicles if they have an Electronic Brake Booster system.

Until Ford releases the software update that fixes this issue, you must follow the instructions in the technical bulletin before towing with a supplemental braking system.

***Provide this document to your customer upon completion of the installation.***

## **⚠ WARNING**

**Failure to follow the instructions as indicated above will  
result in severe, non-warranty brake damage.**

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# How will I know if my vehicle has an Electronic Brake Booster (EBB)?



## To figure out whether or not your vehicle has an EBB –

1. **Visual indicator** – If you have a vacuum booster as shown above, you DO NOT have an EBB.

2. **Call the Ford dealership** – If you are still uncertain as to whether or not you have a traditional vacuum booster, you can contact your local Ford dealership to determine if your vehicle has EBB. Obtain your VIN number and call the parts or service department.