

## 2010 Camaro Barton Industries Short Throw Shifter Installation Instructions



Barton Industries  
349 Route 23  
Cincinnati, NY 13040  
(607) 745-4927 / (607) 863-4757

Thank you for purchasing the Barton Industries Short Throw Shifter. Our Short Throw Shifter will have approximately 45% reduction in throw. The shifter will have a very solid mechanical feel. Some noise may be present at times. This noise is slight however it can vary from every vehicle.

**IMPORTANT:** Anytime working on a vehicle, make sure you are working on a clean level surface. Make sure car is in gear and emergency break is set. Allow adequate time for the exhaust and other components to cool prior to installation. Please read the instructions through completely before beginning installation so you can better understand the process. We recommend doing all work on an automotive lift. If you do not have access to a lift we recommend taking it to someone who does.

Barton Industries will not be held accountable for any damages occurring before, after, or during the installation process of the Short Throw Shifter. Barton Industries does warrant the products enclosed to be free of any manufacturer defects for 6 months.

**30 Day Money Back Guarantee:** You can return your product within 30 days of the UPS delivery date for a full refund (not including shipping). If you are not satisfied with this product, you are responsible for shipping and insuring delivery to Barton Industries within 30 days of the delivery date of UPS. Barton Industries reserves the right to refuse any return if product is damaged.

**\*\*Make sure you have all parts prior to installation.\*\***

### PARTS ENCLOSED:

- Shifter Assembly
- Shifter Stick
- Shifter Ball, If using flat stick
- 3/4 -16 jam nut
- M12x1.25 jam nut, If you using flat stick
- 1 zip tie



**STEP 1**

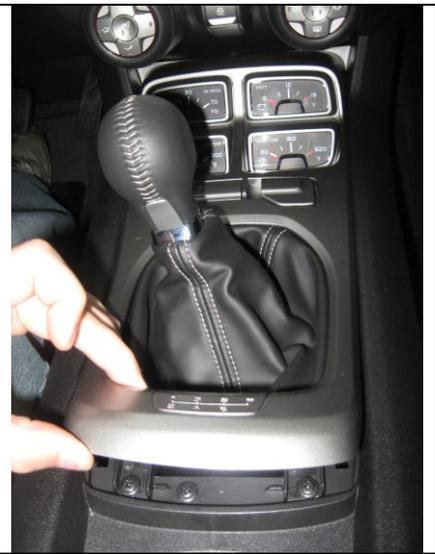
Starting at the back, lift up on cluster gauge panel.

Remove and place to side.

There is no need to disconnect any wiring.

If you can not pry up with finger-tips, use a flat object to help assist in the removal. We recommend using a cloth around the item you use to help ensure no damages can occur.

**Be careful not to damage any surfaces.**



**STEP 2**

Locate 4 phillip head screws that hold down the dust boot.

Remove and place to side.



**STEP 3**

Grab a hold of shift knob and pull upwards. Use a rotating and rocking motion to help loosen.

This can take a lot of strength. You can use two flat head screwdrivers under the shift knob to help assist you.

**NOTE: V6 CARS MUST REMOVE THE CENTERING SPRINGS LOCATED UNDER THE RUBBER DUST BEFORE GOING TO STEP 4.**



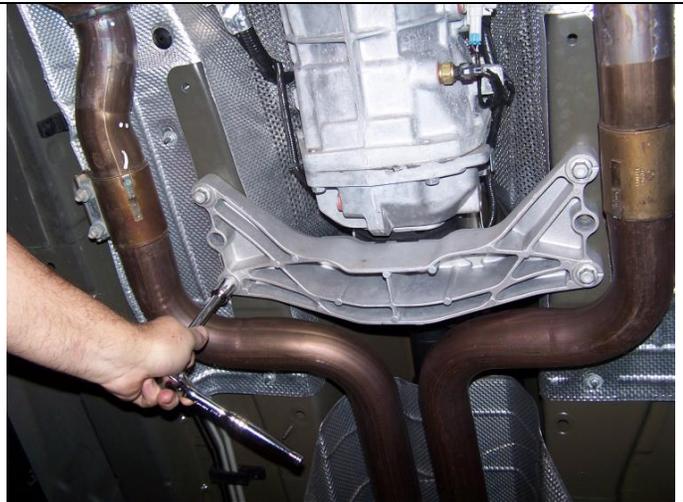
**STEP 4**

Carefully raise car in the air.

We recommend using a lift, however properly used jack stands could suffice. Use jack stands at own risk.

**STEP 5**

Using a 15mm socket loosen 4 transmission cross member bolts. Loosen these bolts approximately a ½ inch down. Loosen in a “criss cross” pattern. This will lower the transmission and provide better access to the shifter assembly.



**STEP 6**

Pull the black rubber dust boot down and move to the side to reveal shift linkage and shifter assembly.



**STEP 7**

Using your fingers or a flat head screw driver slide up clips to remove from the shift linkage connecting rod. Be careful not to damage these, they will be reused.



**STEP 8**

Slide out the pin that connects the shifter assembly to the linkage, and pull the shifter back to separate the shifter from the linkage.



**STEP 9**

Remove the 2 bolts on the mounting plate that secure the shifter and remove the plate. These bolts will be reused.



**STEP 10**

Pull firmly down on the shifter assembly to remove from the car.



### STEP 11

Apply grease to the outer black O rings and slide shifter assembly into the shifter housing on the car. Make sure the holes on the shifter assembly are aligned with the holes on the housing. Push firmly up to make sure the shifter assembly is all the way up.

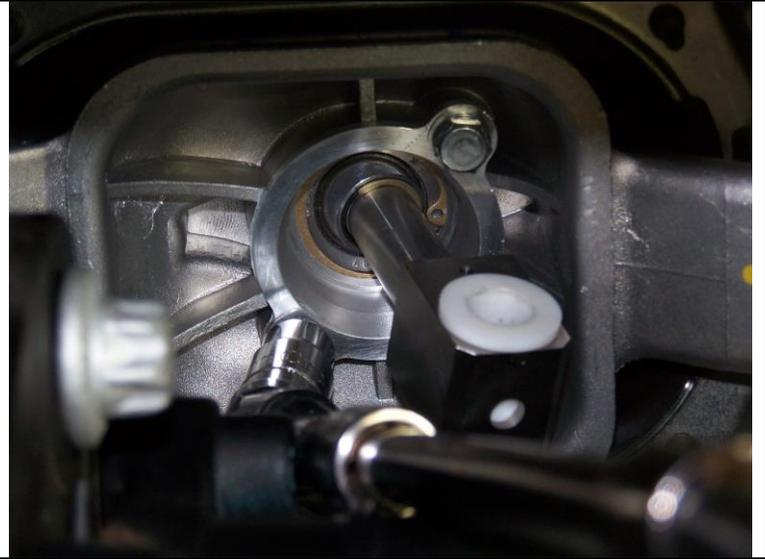
NOTE: V-6 owners can permanently remove the centering springs or they can reposition them and reuse them depending upon drivers preference.



### STEP 12

Install the 2 bolts that were previously removed and torque to 7 ft. lbs.

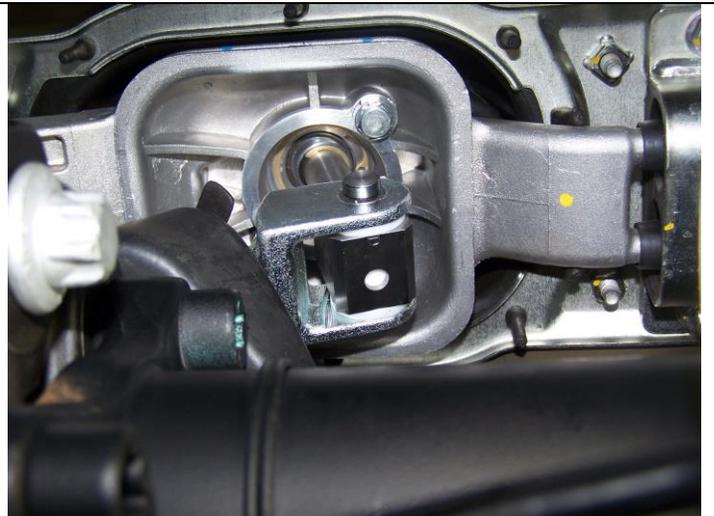
The use of a swivel socket may aid in this process.



### STEP 13

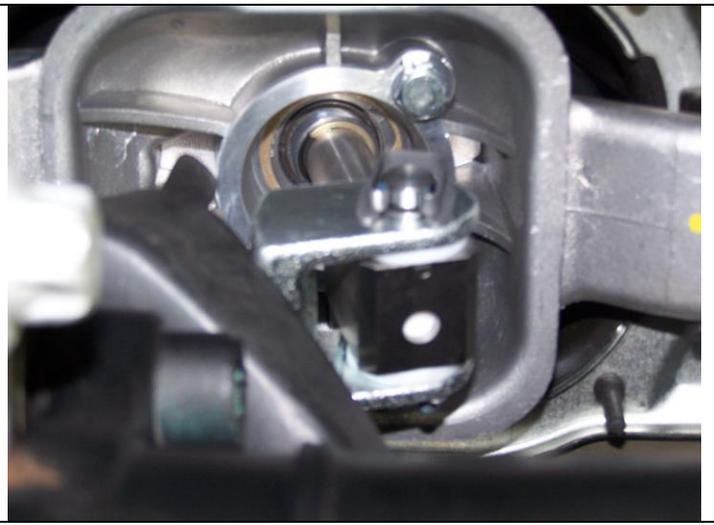
Re-attach the shift linkage to the shifter assembly and slide the connecting pin through the shifter assembly and the linkage.

**MAKE SURE** the letter **D** is to the driver side



**STEP 14**

Re-attach the locking clips to the connecting pin by sliding them up.



**STEP 15**

Reinstall the rubber dust boot, making sure it is fully seated.



**STEP 16**

Retighten the 4 transmission bolts in a criss cross motion and torque to 45 ft. lbs. knobs.



**STEP 17**

Carefully lower car to the ground.

**STEP 18**

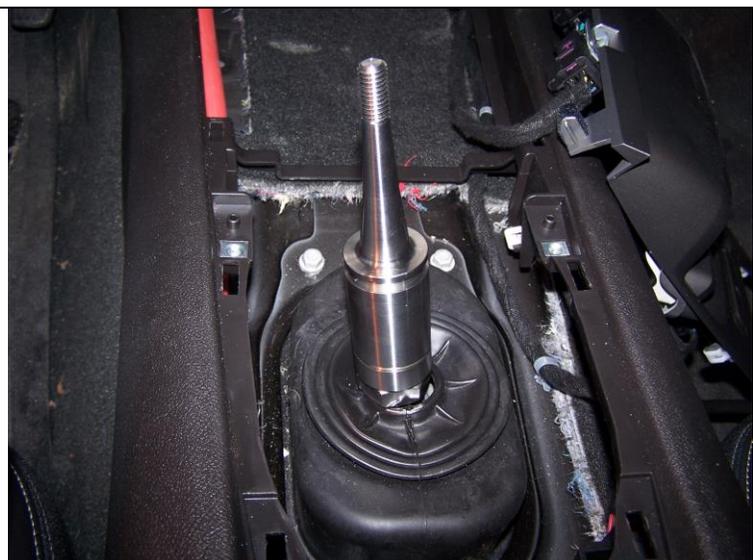
From inside the vehicle, thread down the  $\frac{3}{4}$  - 16 lock nut all the way down.

We recommend to put a small amount of grease on the threads of shaft.



**STEP 19**

Thread down whichever stick you will be using "OEM Stick" or "Ball Stick" to the desired height, making sure it is at least 12 turns down. For the shortest throw, thread the stick all the way down and back off 1 full turn.



**STEP 20**

Using a 1-1/16" wrench on the jam nut and a screw driver or allen wrench that fits in the  $\frac{1}{4}$ " hole. Tighten the jam nut against the stick.

Note: If using the stick for the Factory knob make sure the grooves are facing the front and back of car.



**STEP 21**  
Attach the rubber dust boot to the small groove at the bottom of the stick.



**STEP 22**  
Turn the leather shift boot inside out and attach to the groove using the supplied zip tie and cut off any access zip tie.



**STEP 23**  
Now secure the leather dust boot back to the center console using the 4 screws you removed.



**STEP 24**

Reattach the center gauge cluster by starting from the back and working forwards, make sure all clips are pushed down.



**STEP 25**

Thread down the 3/8-16 jam nut and then the shift knob. Orientate the logo and tighten the jam nut against the shift knob using a 9/16" wrench.

BE CAREFUL not to over tighten this as it could loosen the shifter stick away from the 3/4-16 jam nut.



**STEP 26**

Push in the clutch and run through all of the gears making sure everything feels good.

NOW – Go enjoy your NEW SHIFTER!!

Thank you for your order. Please be sure to check out our online store at:

[www.bartonindustries.com](http://www.bartonindustries.com)

If you have any questions during your installation, please call Dave:

Mon-Fri. 9am – 3pm (607) 863-4757

Sat-Sun.: 9am – 5pm (607) 745-4927