



## C30/S40/V50/C70 Short throw shifter.

### TOOLS NEEDED

For install:

- 8mm socket (1/4" drive will work best due to space constraints)
- 8mm open box wrench
- ~12mm open box wrench
- Red lock-tite for nuts

### INCLUDED IN KIT

- 1 Adapter and brace
- 4 M5 35mm bolts
- 4 M5 nuts
- 4 M5 washers

### Part one: Gain access to the shift lever

1-1. There is a plastic ring at the base of the boot that retains the boot to the console. Push in very gently from all sides or use a bone tool to get it to release so that you can pull the boot up. Be careful not to break the plastic ring under the boot. Once the boot clip is released you can slide it up allowing you full access to the shift lever and the shifter assembly.



## Part two: Install short throw shifter

IMPORTANT SAFETY ITEM BEFORE YOU START! Move the shift lever to **Neutral** and put on the parking brake. Chock your wheels if needed. (For example: If you are parked on a hill)

1. Remove cable from shift lever: Use a 12mm or similar sized open ended box wrench to pop the cable end off the ball. It is only pressed on. Slide the wrench under and in-between the cable end and the mounting point (which will be either yellowish or black plastic). Pry up with the wrench to disconnect the cable from the ball as pictured. In some cases you may need to use two wrenches; one on each side of the cable end. Just be careful not to damage the red plastic bushing that is inside the cable end.



2. Place both parts of the adapter onto the shaft just under the boot where it can be easily reached. (Make sure that the alignment of the small piece is correct as it is not perfectly symmetrical: You want the back edge of the two pieces to be flush when mounted on the shaft so that the bolts align correctly and do not get cross threaded) Thread the (4) bolts by hand until they are mostly in but still loose enough that you can slide the adapter down on the shaft.





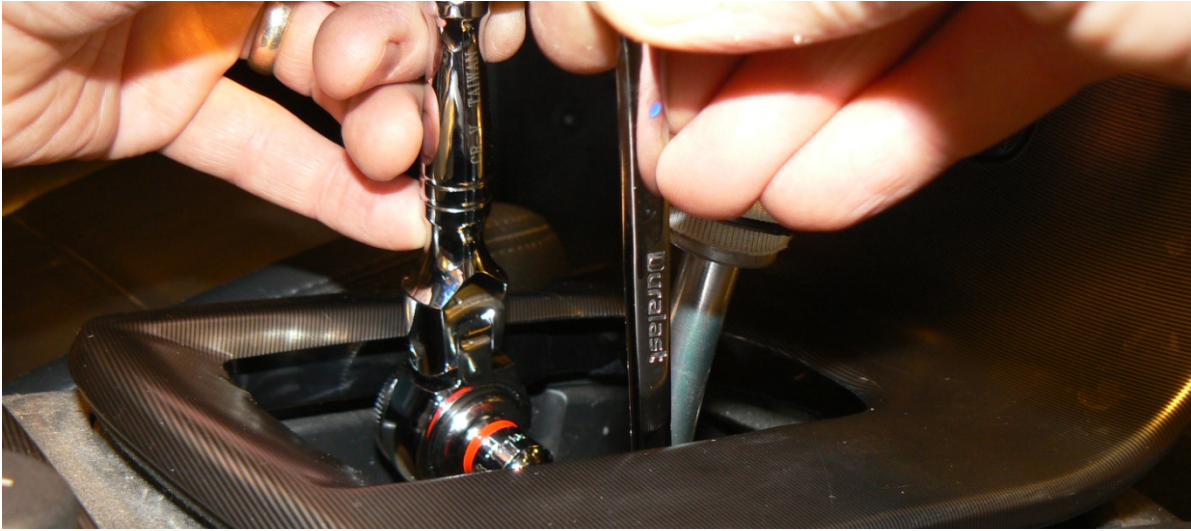
3. Slide the adapter down into position. The higher it sits on the shaft the shorter the throw and vice versa. If you prefer 25% reduction place the adapter on top of the original mount. Or if you prefer 35% reduction raise the adapter 10mm (or roughly .4 inches) higher on the shaft. Snabb Performance Parts does not recommend raising the adapter any higher than 10mm above the original mount due to the level of increased stiffness and increased pressure on the ball and socket fitting.
4. Tightening the bolts into the adapter sufficiently to eliminate movement while simultaneously positioning yourself above and looking straight down at the shift lever and adapter. This way you will be able get the adapter pointing straight ahead. Tighten and straighten simultaneously. You may need a ratchet or ratcheting wrench to tighten these down enough to keep it from moving while positioning it.



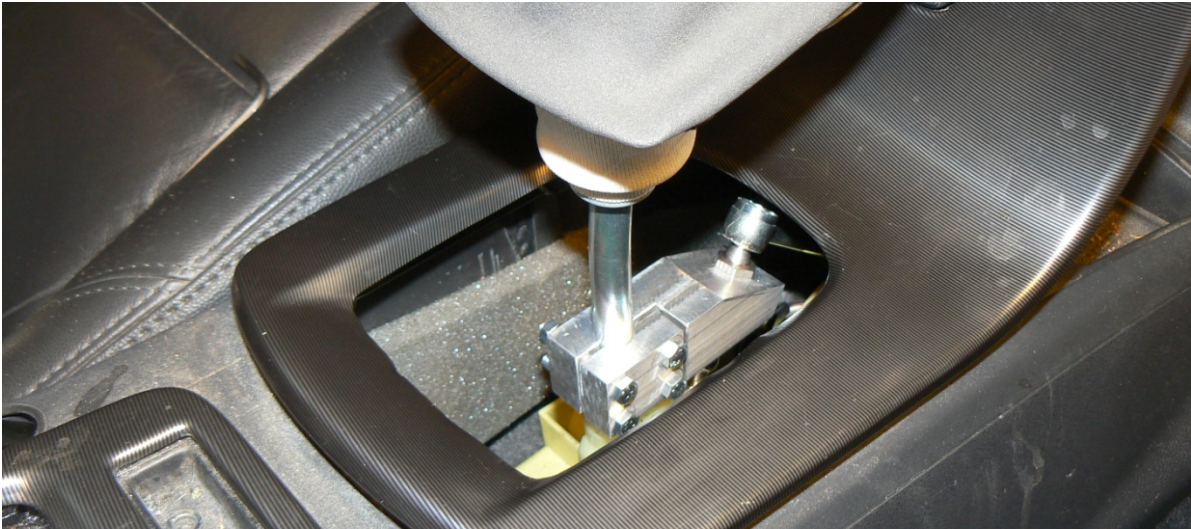
5. After positioning it at the height that you want and pointing straight forward. Use a wrench to tighten the bolts down all the way. Tighten the bolts in a crisscross fashion: top corner, then adjacent bottom corner, and so forth so that the two pieces clamp evenly on the shaft. You can exert approximately 10ftlbs of force safely to the bolts to get them tight. You do not have to measure this but be careful not to over tighten and strip the aluminum adapter. Once the bolts are tight put on a lock washer onto a bolt (one at a time), then apply a small drop of red lock-tite to the exposed threads and place a nut on. Use a wrench to hold the bolt and keep it from turning while tightening the nut until the lock washer is completely flat. ... continued



Repeat with the remaining 3 bolts so that all are secure. **\*\*NOTE\*\*** If you are unsure how short you want the shifter then wait to put on thread locker until you have test driven your car and are sure that you like the reduction. When you are sure then go back and put the nuts on with thread locker.



6. Push cable end onto the ball.



**\*\*Please note that raising or lowering the adapter on the shaft will slightly alter whether the shift lever is perfectly straight up and down. For this reason there is a small amount of adjustment available on the ball location. For example: If you find that the shifter is slightly forward you can remove the ball with ½ drive socket and wrench and move the ball reward to straighten the shift lever and vice versa. There is approximately 1 inch (shift knob travel) of total adjustment available.**

7. We recommend taking your car for a spin before reinstalling the boot clip until you are sure it is adjusted to your liking. If the reduction is to your liking, place boot back into place.

Thank you for your purchase, Enjoy!