



Installation Manual
TWM Performance
Shift Cables Bushing Kit
2005+ Scion TC
2000+ Celica GT, GT-S
2003+ Corolla
2003+ Matrix
2003+ Vibe

It is preferable to park on a flat surface, as you may have to engage and disengage the hand brake and shift from gears to neutral. If you cannot do so and are obliged to install the bushings on a slightly inclined surface, place wooden blocks in front or behind the wheels to prevent the car from moving while you're working.

Estimated Installation Time: 30 minutes

Tools required:

- 10 mm long socket
- Ratchet
- Needle nose pliers
- Flash light

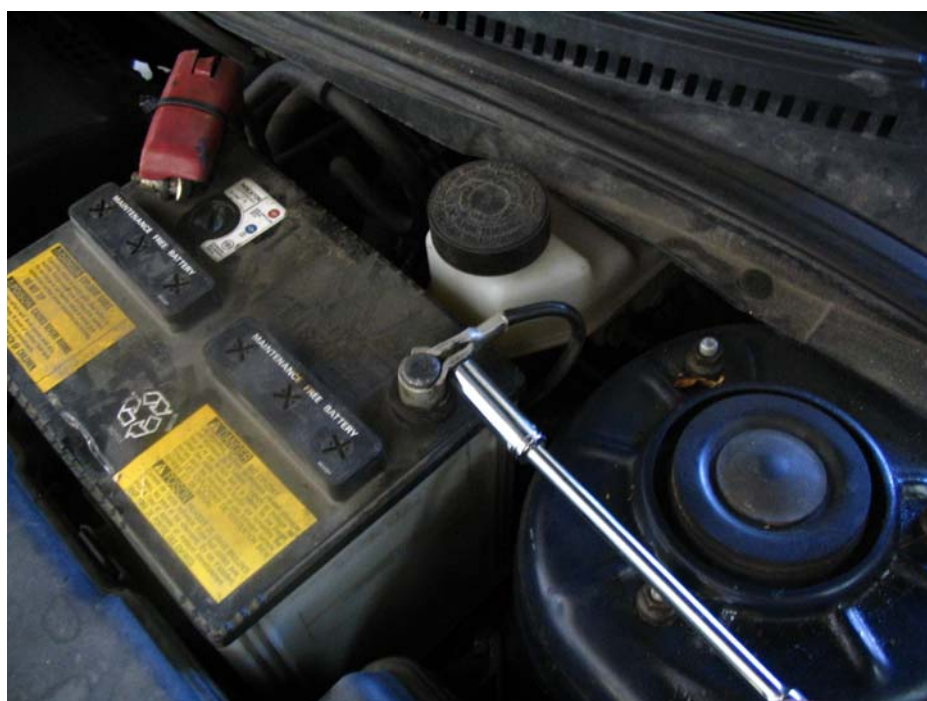
PLEASE NOTE: This manual was written with a Toyota Celica GT as the test car. The steps for installation will vary from car to car, however the basic concept is the same on all Scions and Toyotas. You will need to clear a path to access the shift cables, remove the stock rubber bushings from the cables, and replace them with the new TWM shifter cable bushings.

IMPORTANT: One of the shifter cable bushings has a larger centre hole than the other, it is identified with a TWML. This bushing is intended to be the lower bushing that sits vertical in the engine bay. The other bushing which is labelled TWM is the upper bushing which sits horizontally in the engine bay.





1. Open the hood and locate the battery. Remove the two nuts retaining the battery holder with a 10 mm long socket and a ratchet. Remove the battery holder, the battery and the white plastic plate and put them in a safe place.





2. With the battery and its plastic plate removed, you should have access to two bolts. Remove them using a 10 mm socket and a ratchet.



3. Remove the third bolt holding this assembly.





4. Pull on the plastic duct to be able to put this assembly aside to have access to the top of the transmission. As this assembly sits under the battery tray, you have to shift the assembly toward the right to get the right leg over the battery tray and then shift toward the left to pull the left leg over the battery tray. The assembly should now slide a few inches toward the rear of the car.



5. This test car was equipped with an aftermarket intake. If your car still has the stock intake, remove it along with the airbox to have access.





6. Locate the two shift cables and their attachment points. One is under the throttle body and the other in front of the battery tray.

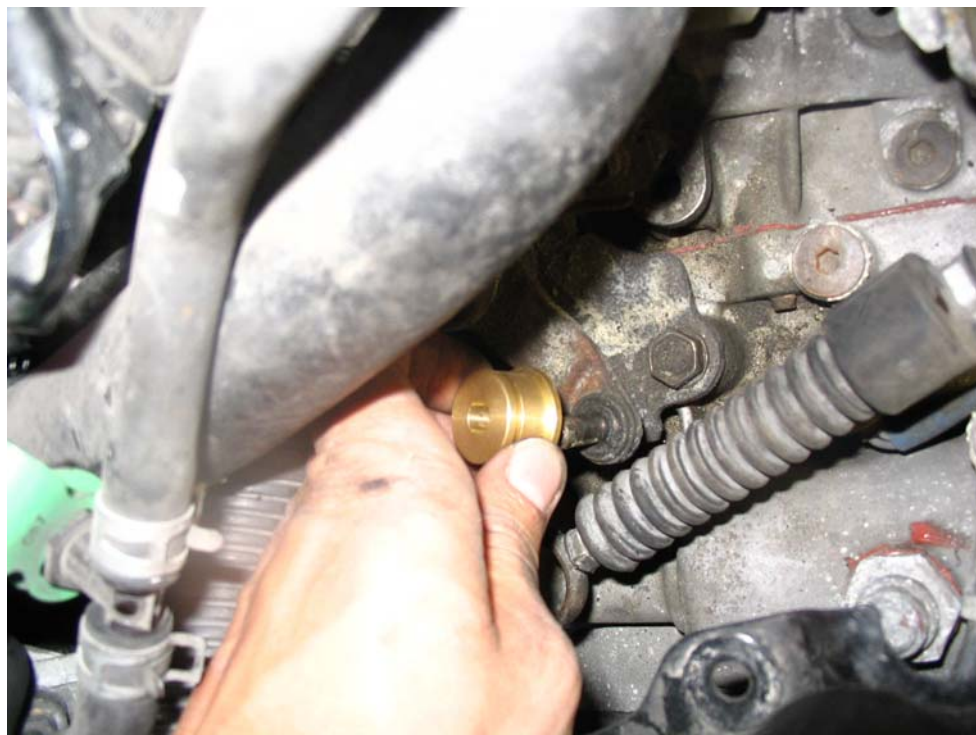




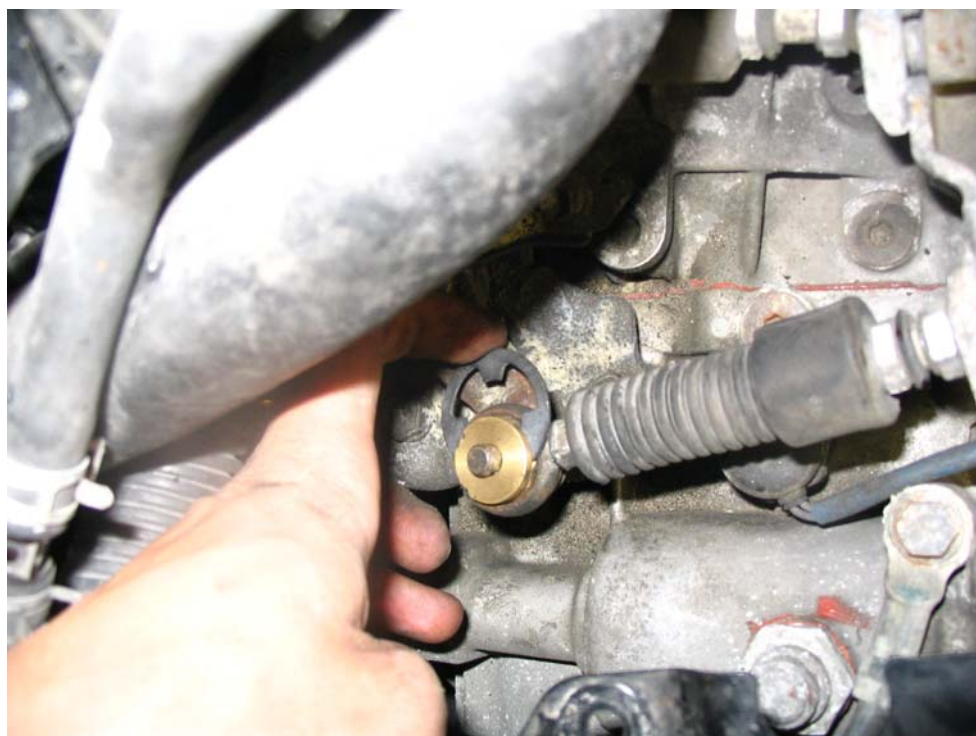
7. Working on the shift cable closest to the battery tray, straighten the cotter pin legs and pull it out of the shifter cable pin. If stuck in the stud, you can cut it, as new cotter pins are provided. Remove the top washer and put it aside, this will not be re-installed.



8. Push the rubber bushing out of the sleeve on the end of the cable. You can use your hands or pliers to do this.

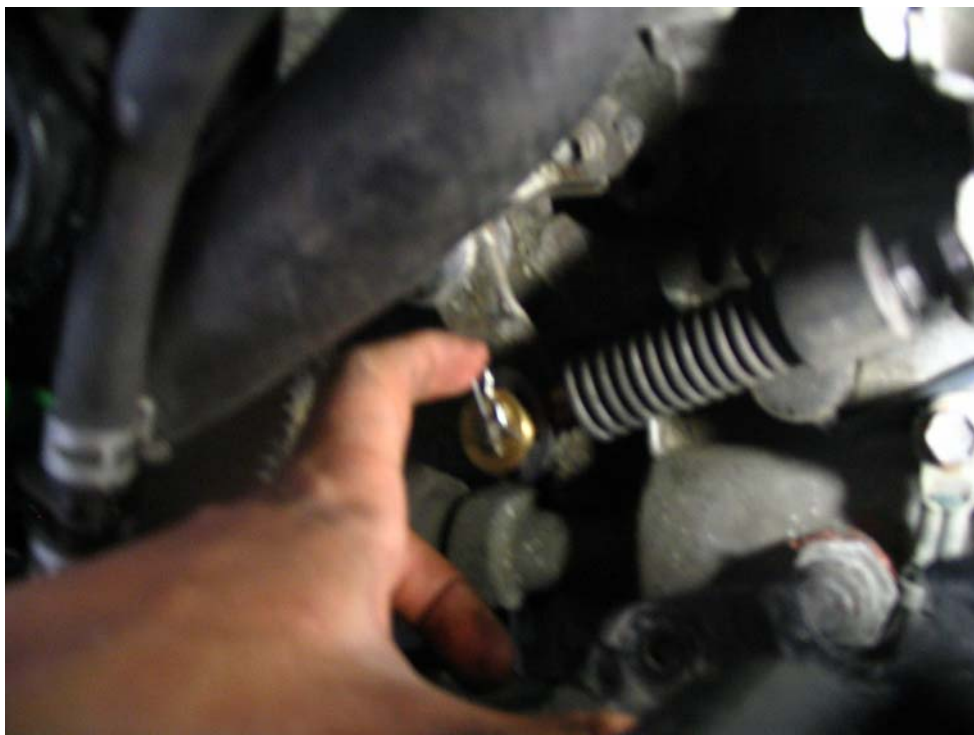


9. Install the TWM bushing over the stud, with the large flange side at the bottom.



10. Slide the shift cable over the TWM bushing and lock it with one of the provided crescent rings. If the shift cable does not slide over the bushing, it may be because there is dirt inside the shift cable. Clean it and try again. Sandpaper is provided to clean the shifter rod and shift cables.





11. Lock everything together using the stock cotter pin, or one of the provided cotter pins if your stock ones are damaged.



12. Repeat step 7 to 11 for the shift cable under the throttle body.

13. Re-install everything repeating steps 1 to 5 in the reverse order.





14. Enjoy the ride!

Legal Disclaimer

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This warranty covers the **original purchasing consumer**. This warranty is limited to repair or replacement by TWM Performance of any TWM Performance product that fails because of a defect in materials or workmanship.

Warranty does not cover the following:

- Damage incurred to related vehicle components
- Regular day to day wear on vehicle
- Shipping costs for replacements
- Installation costs and vehicle down time
- Products that have been modified, incorrectly installed or misused.
- Mounting hardware and bearings



This manual is available for download in color at : www.twmperformance.com