



Nissan SER SPEC V

2002-2003 Nissan Maxima

2002 and Up Nissan Altima

Short Throw Shift Adapter

Installation Manual

Estimated Installation Time: 10-20 Minutes

Tools Required:

- Philips head screw driver
- Set of allen key wrenches
- Needle nose pliers
- 13mm wrench

Overview: The theory behind the TWM Performance Short Throw Shift Adapter is to adjust the point at which the shifter cable attaches to the shift actuator on the transmission. This adapter is fixed onto the stock shift actuator and the shift cable is attached to the adapter rather than the actuator. The new point of attachment is placed closer to the pivot or fulcrum of the actuator thus reducing the distance the shifter (inside the car) must move in order to engage a gear.

Step 1: Remove the four bolts which secure the airbox to the chassis.



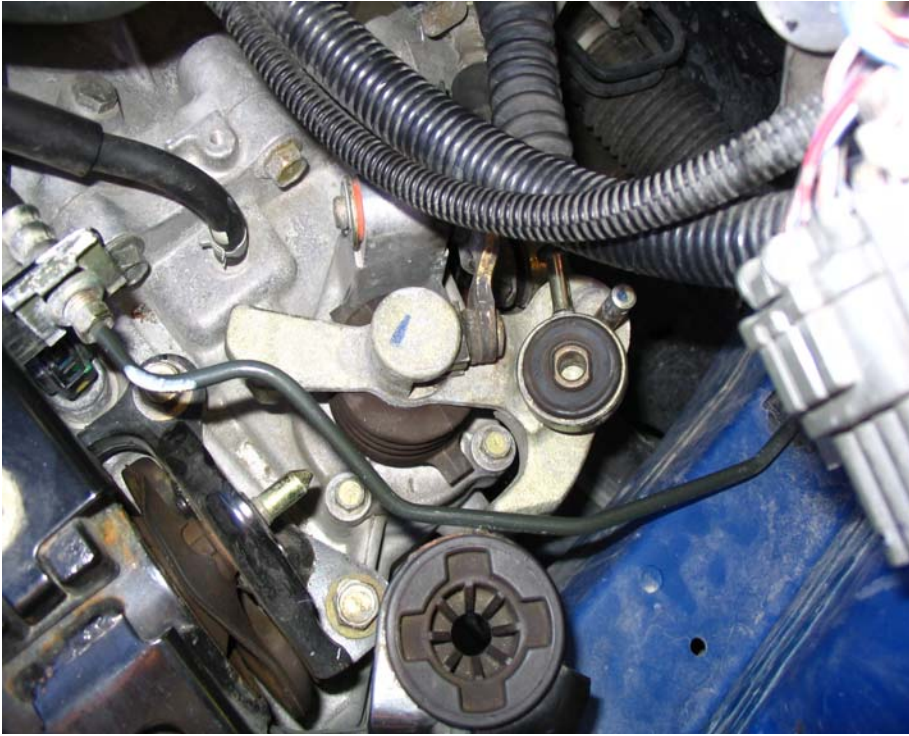
Step 2: Unclip the MAF from the intake tube and remove the rubber tube connected to the air box. Then remove the airbox from the vehicle.



Step 3: Remove the cotter pin that secures the shift cable to the shift actuator.



Step 4: Remove the shift cable from the old shift cable mounting point.



Step 5: Using the following diagram, place the TWM Performance Short Throw Shift Adapter onto the shift actuator.



Hole for original shift cable mounting point



New shift cable mounting point

Set screws to secure adapter to shift actuator

Step 6: Slide the shift cable under the new mounting point of the adapter. Tighten the two set screws. Put the cotter pin into the old shift cable mounting pin over the adapter. For this step you'll probably need to push down slightly on the adapter. **Note:** Be sure to add loctite to the set screws.



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- 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