



## TWM Performance Shift Knob (With Engraving)

### Installation Manual



1. Ensure that your parking brake is engaged inside the car. Unscrew stock shift knob by rotating counter clockwise.



2. Thread the supplied low profile jam nut all the way down to the bottom of the threads on the shifter shaft. There is no need to tighten it at this point, simply thread it down by hand.



3. Thread the supplied aluminum insert on to the shifter shaft by hand with the hex end facing up.



4. Now lightly tighten the aluminum insert on to the shifter shaft. A 15mm wrench can be used to tighten the insert. The insert should only be snug on the shaft, Do Not Over Tighten.



5. Thread the shift knob on to the insert until you experience resistance at its lowest point.



6. Pictured to the left is the point where the insert encounters the top of the inside of the shift knob and it stops turning. Notice how the engraving on the shift knob is not aligned correctly. Make a note of how much the shift knob needs to be backed off to align the engraving, in this case it needs to be backed off slightly less than  $\frac{3}{4}$  turns. Please note that it is impossible to thread the insert deeper to align the engraving, the insert **MUST BE BACKED OFF COUNTER CLOCKWISE**.



7. Unscrew the shift knob leaving the aluminum insert in place on the shaft. This will allow access to adjust the jam nut and insert to set proper engraving alignment.



8. Use a 15mm wrench on the hex end of the aluminum insert to back the insert off the appropriate amount. In this case we will back the insert off slightly less than  $\frac{3}{4}$  of a turn.



9. Pictured to the left is the insert in it's final resting position once it has been backed off counter clockwise to ensure proper engraving alignment. Continue to hold the insert in this position.



10. While still holding the insert in place, thread the jam nut up the shaft (counter clockwise) until it touches the bottom of the aluminum insert.



11. Still holding the insert in position with the 15mm wrench, use a 9/16" or 5/8" (size of the jam nut varies with shifter thread size) open ended wrench to tighten the jam nut up against the bottom of the insert. Do not tighten the insert down as this will change the engraving orientation. Simply hold it in position while tightening the jam nut from below. The jam nut is tightened against the insert by rotating counter clockwise.



12. Re-install the shift knob and tighten down by hand. If the insert was adjusted correctly the engraving will line up properly. If the engraving does not quite line up properly, remove the shift knob and repeat steps 8 to 11 to adjust the insert and jam nut to line it up. Only minor adjustments should be required at this point.

PLEASE NOTE: if you re-adjust the knob, loosen the jam nut **FIRST** by holding the aluminum insert with a 15mm wrench and rotating the jam nut **CLOCKWISE**. Do not loosen the insert first, simply hold it with the wrench and loosen the jam nut to maintain approximately the correct orientation of the insert.



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Autocrossing, track events, and high speed driving are all dangerous activities - always drive responsibly and safely.

### **Warranty**

Installation of some TWM Performance products may or may not void factory warranties. Always keep OEM equipment that has been replaced in case work is required at the dealer or the vehicle is sold.

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:

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