



# Installation Instructions Precision Sport Shifter

Fits: 2003-2016 Nissan 350Z / 370Z  
2003-2013 Infiniti G35 / G37  
Catalog # 45163

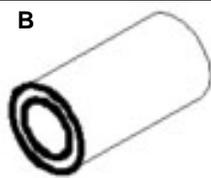
**WORK SAFELY!** For maximum safety, perform this installation on a clean, level surface and with the engine turned off. Place blocks or wedges in front of and behind both rear wheels to prevent movement in either direction.

**CAUTION:** To avoid any possibility of bodily injury or damage to vehicle, do not attempt installation until you are confident that the vehicle is safely secured and will not move.

This B&M Short Throw Shifter has been designed to work on most 2003-2016 Nissan 350Z/370Z and 2003-2013 Infiniti G35/G37 model vehicles. It has been engineered to greatly reduce shift throw and improve shifter feel. Check the parts and tools lists at the beginning of these instructions for the supplied parts and the tools required to install your B&M Short Throw Shifter. Installation of this B&M Short Throw Shifter can be accomplished by anyone with minimal mechanical experience.

**NOTE:** Do not attempt to disassemble shifter unit. This shifter has been precision assembled at B&M under exacting tolerances and at extreme pressures. Disassembly of the shifter unit will void warranty.

### PARTS

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### TOOLS

<div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Socket (10 &amp; 12mm)</div> 	<div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Hex Drive (5 mm)</div> 	<div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Socket Drive /</div> 	<div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Torque Wrench</div> 	<div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Channel Locks</div> 	<div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Extension</div> 	<div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Jack</div> 	<div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">Jack Stands (4)</div> 
<div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">File</div> 							

## DISASSEMBLY

1. Park vehicle on a level area and allow time to cool. Unscrew knob and remove. Also, remove small insert under knob (will not be used on new shifter).

TOOLS: Channel Locks & Towel.

**NOTE:** In some vehicles it may be VERY difficult to remove the shift knob without damaging it. If this is the case in your vehicle, it may be possible to proceed through all the disassembly steps carefully lifting up on the center console plate and rubber boots to access the hardware. Then, finally removing the knob as described in the final disassembly step 13.



2. Lift up console plate.



3. Unplug wiring harness from console plate and remove console plate.



4. Remove white foam cover (350Z/G35 only).



5. Remove shifter cover bolts and wire harness connections, then remove plate from vehicle.

TOOLS: Socket (10 mm), Drive, and Extension.

**NOTE:** 370Z/G37 vehicles may require removal of the center console side covers and center console by removing several interior screws (use a Phillips screwdriver) to access the above bolts.



6. Remove rubber boot(s).

**NOTE:** 370Z/G37 vehicles have an extra outer boot that will also need to be removed in this step.



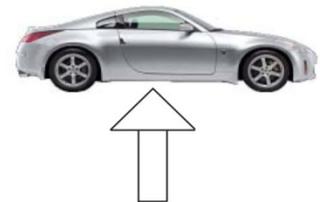
7. Remove bolts holding down metal shifter plate.

TOOLS: Socket (10 mm), Drive, and Extension.



8. Carefully raise and support vehicle.

TOOLS: Floor Jack, Jack Stands (4)



9. Remove soft rubber boot from shifter casting.



10. Remove shift linkage bolt.

TOOLS: Socket (12 mm) and Drive



11. Remove shifter from car. (Metal plate and spring will be used on new shifter)



12. File out approx. .125" from shifter casting in indicated area. Clean out metal chips and relube entire pocket with provided grease.

TOOLS: File and towel.

NOTE: This step allows for engagement of reverse.



13. If you were unable to remove the shift knob in step 1, then carefully place the knob in a vise (shifter inverted) and using the long extension or other long tool through the lower connection hole, carefully rotate (unscrew) the shifter assembly off of the shift knob.

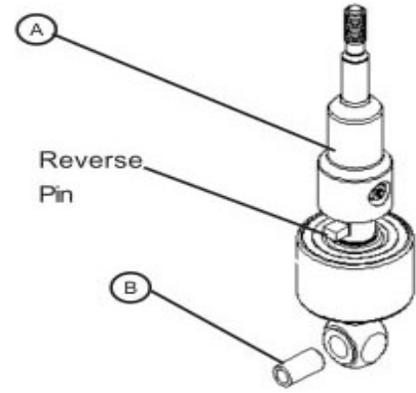
TOOLS: Long extension & Towel (to protect knob)



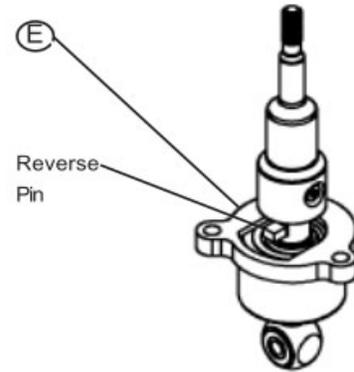
## ASSEMBLY

14. Install sleeve **B** onto bottom of shifter **A**.

Please note reverse pin on shifter.

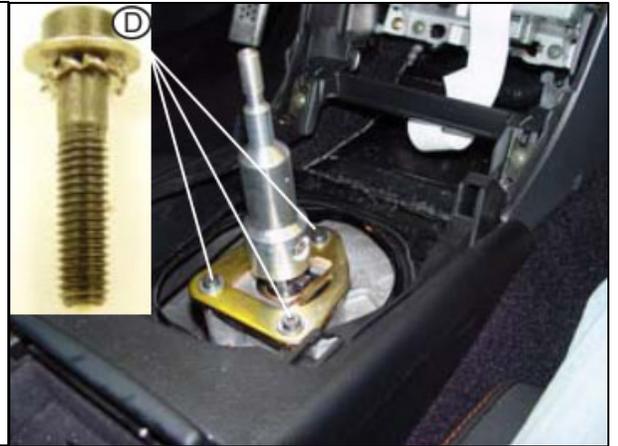


15. Install mounting plate **E** on shifter, make sure that reverse pin is lined up with cleared out area on plate as shown.



16. Install stock spring and shifter using stock plate and M6 bolts, washers, then serrated washers **D**. Make sure that reverse pin is turned towards passenger side of vehicle. **TOOLS:** Socket Drive, Extension, and Hex Drive (5 mm)

**NOTE: DO NOT TIGHTEN BOLTS FULLY AT THIS POINT. ENSURE SERRATED WASHERS ARE COMPRESSED BETWEEN FLAT WASHER AND STOCK PLATE.**



17. Reinstall shift linkage bolt.

**TOOLS:** Socket (12 mm) and Drive



18. Reinstall soft rubber boot.



19. Adjust shifter plate so that reverse pin rides on the stock plate while going into 6th gear. Shifter should need to be pushed down to engage reverse. Evenly torque bolts to 10lbs-ft (13.6Nm). Test movement of shifter into all gears. DO NOT operate vehicle until all gears can be fully engaged smoothly.

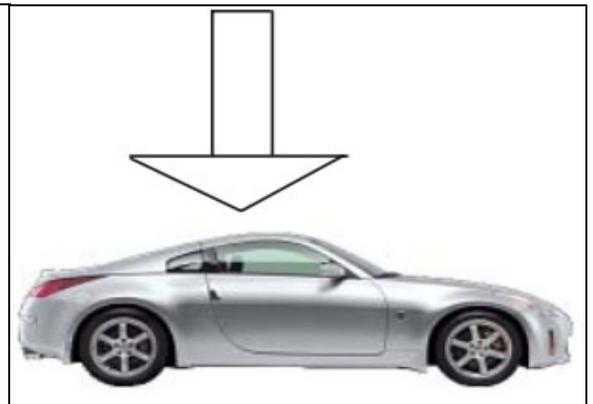
NOTE: This B&M Shifter has been designed to provide an audible click (noise) when the shifter pops out from the reverse-down position. This should signal that reverse has been "locked-out" until the shifter is once again depressed.

TOOL: Torque Wrench, Extension, & Hex Drive (5 mm)



20. Carefully lower vehicle.

TOOLS: Floor Jack, Jack Stands (4)



21. Reinstall rubber boot(s).



22. Reinstall shifter cover and bolts.

**Caution:** Do not over tighten these bolts. Reinstall center console and console side plates (370Z/G37) if they had been removed.

TOOLS: Socket (10 mm), Drive, and Extension.



23. Reinstall white foam (350Z and G35 only) and console plate, making sure to re-plug in wiring harness.



24. Reinstall knob. Take care not to screw knob down through shifter boot. ENJOY!!!



**IMPORTANT: RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE**

**Technical Service**

A highly trained technical service department is maintained by Hurst Performance to answer your technical questions, provide additional product information and offer various recommendations.

Technical service calls, correspondence, and warranty questions should be directed to:



**B&M Racing & Performance Products**

(707) 544-4761

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