



Installation Instructions

Precision Sport Shifter

2002 and up Nissan 350Z

2002 and up Infiniti G35

(see www.bmracing.com for the latest vehicle fitment applications and model years)
Part Number 45163

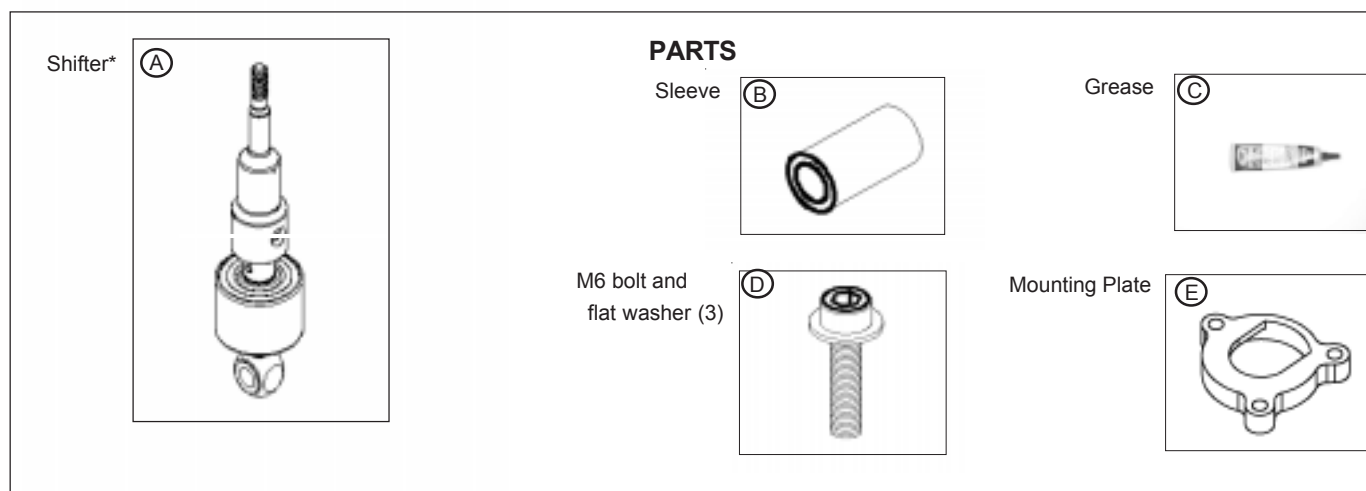
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This **B&M Short Throw Shifter** has been designed to work on most 2002 and up Nissan 350Z and 2002 and up Infiniti G35 model vehicles. It has been engineered to greatly reduce shift throw and improve shifter feel. Check the parts and tools lists at 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.

INTRODUCTION

This **B&M Short Throw Shifter** can be installed in less than an hour by carefully following the instructions. Read all instructions first to familiarize yourself with the parts, tools, and procedures. This kit contains all the parts necessary to install the shifter.

***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 with void warranty.**



TOOLS

Socket(10 & 12mm)



Socket Drive



Extension



Channel Locks



Hex Wrench (4mm)



Towel



File



Jack



Jack Stands (4)



DISASSEMBLY

STEP 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.



STEP 2. Lift up console plate.



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



STEP 4. Remove white foam cover.



STEP 5. Remove shifter cover bolts.
TOOLS: Socket(10 mm), Drive, and Extension.



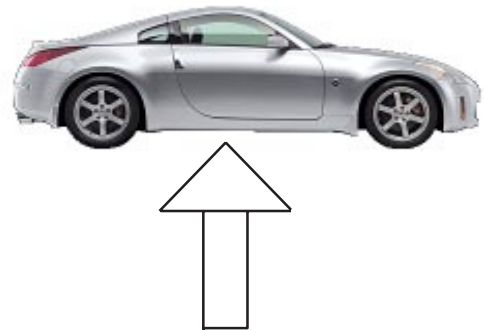
STEP 6. Remove rubber boot.



STEP 7. Remove bolts holding down metal shifter plate.
TOOLS: Socket(10 mm), Drive, and Extension.



STEP 8. Carefully raise and support vehicle.
TOOLS: Floor Jack, Jack Stands (4)



STEP 9. Remove soft rubber boot from shifter casting.



STEP 10. Remove shift linkage bolt.
TOOLS: Socket(12 mm) and Drive



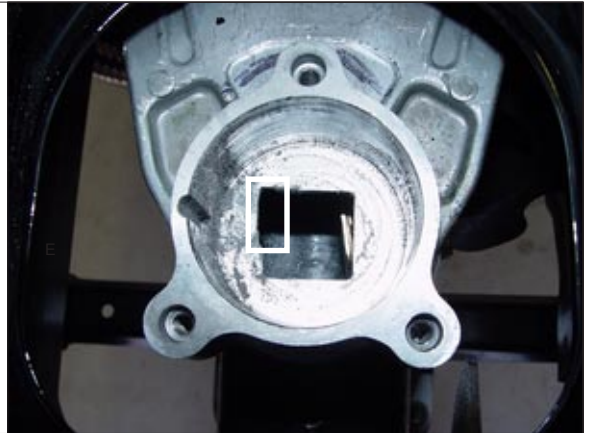
STEP 11. Remove shifter from car. (metal plate and spring will be used on new shifter)



STEP 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.

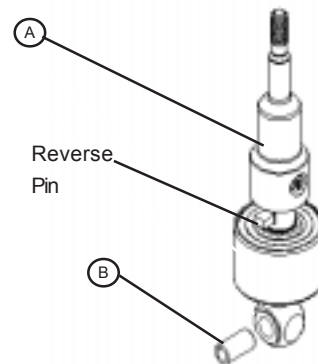
NOTE: This step allows for engagement of reverse.



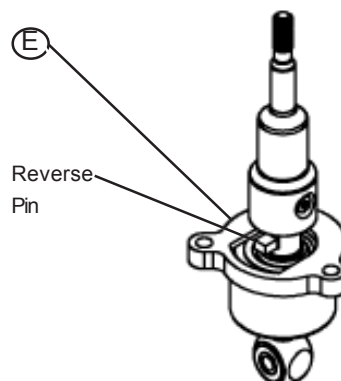
ASSEMBLY

STEP 13. Install sleeve (B) onto bottom of shifter (A)

Please note reverse pin on shifter.



STEP 14. Install mounting plate (E) on shifter, make sure that reverse pin is lined up with cleared out area on plate as shown.



STEP 15. Install stock spring and shifter using stock plate and M6 bolts and washers (D) Make sure that reverse pin is turned towards passenger side of vehicle.
TOOL: 4mm Hex wrench

NOTE: DO NOT TIGHTEN BOLTS FULLY AT THIS POINT.



STEP 16. Reinstall shift linkage bolt.
TOOLS: Socket(12 mm) and Drive



STEP 17. Reinstall soft rubber boot.



STEP 18. Adjust shifter plate so that reverse pin rides on stock stock plate while going into 6th gear. Shifter should need to be pushed down to engage reverse.

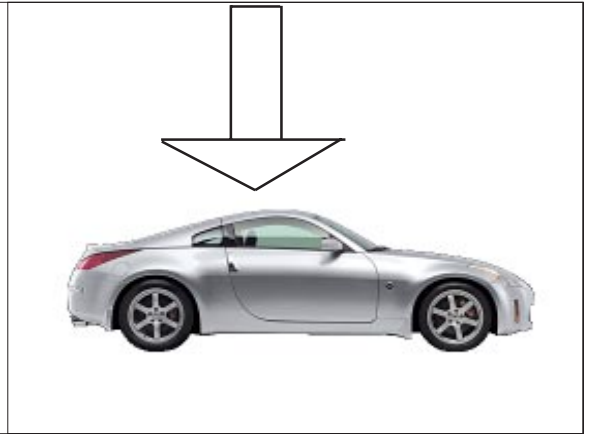
Test movement of shifter into all gears. DO NOT operate vehicle until all gears can be fully engaged smoothly.

TOOL: 4mm Hex wrench



STEP 19. Carefully lower vehicle.

TOOLS: Floor Jack, Jack Stands (4)



STEP 20. Reinstall rubber boot.



STEP 21. Reinstall shifter cover and bolts.

Caution do not overtighten these bolts.

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



STEP 22. Reinstall white foam and console plate, making sure to replug in wiring harness.



STEP 23. Reinstall knob. Take care not to screw knob down through shifter boot.
ENJOY!!!

