

Installation Instructions

Precision Sport Shifter

1997 - 2007 C5 & C6

Chevrolet Corvette

(see www.bmracing.com for the latest vehicle fitment applications and model years)
Part Number 45044

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This **B&M Precision Sport Shifter** has been designed to work on most 1997 and up C5 & C6 Corvette 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 Precision Sport Shifter**. Installation of this **B&M Precision Sport Shifter** can be accomplished by anyone with minimal mechanical experience.

INTRODUCTION

This **B&M Precision Sport Shifter** can be installed in less than an hour and a half 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.

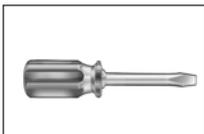
PARTS			
	B&M Shifter		Spacer (2)
	Gasket		Washer (4)
			M6 Bolt
			1/4"-20 Bolt (4) & Washer (4)

TOOLS

Socket(7, 10mm
7/16" 11/32" & 3/8")



Small Flatblade
Screwdriver



Vise Grips



Needlenose pliers



Socket Drive



Channel Locks



Punch



Allen wrench (3/32")



Extension



T-15 & T-40
Torx Socket



Hammer



C5 CORVETTE DISASSEMBLY

(GO TO STEP 10 FOR C-6 DISASSEMBLY)

STEP 1. Pry up on rear of gear shift insert and remove.

TOOL: Small Flatblade Screwdriver



STEP 2. Remove small metal insert.

TOOL: Vise Grips



STEP 3. Remove knob.



STEP 4. Remove traction control panel and disconnect all wires.

TOOL: Small Flatblade Screwdriver



STEP 5. Remove (2) retaining nuts and wire connectors.

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



STEP 6. Remove panel next to ignition key (temperature sensor) and remove screw.

TOOLS: Small Flatblade Screwdriver, Ratchet, Extension, T-15 Torx Socket



STEP 7. Remove bolts beside lighter and under ashtray.

TOOLS: Ratchet, Extension, T-15 Torx Socket



STEP 8. Remove small inserts at rear of rear center console and remove (2) nuts.

TOOLS: Small Flatblade Screwdriver, Ratchet, Extension, T-15 Torx Socket



STEP 9. Slide rear center console back enough to remove front center console. Remove front center console.

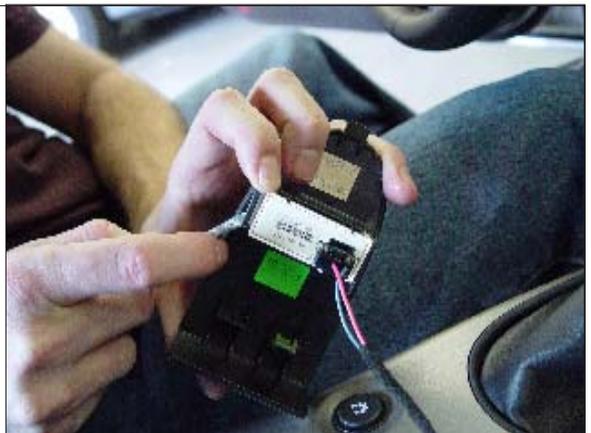
NOTE: FOR C5 GO TO STEP 19



C6 CORVETTE DISASSEMBLY

STEP 10. Remove panel for passenger air bag and remove module.

TOOLS: Small Flatblade Screwdriver



STEP 11. Remove (1) nut holding down console.

TOOLS: Ratchet, Extension, Socket (10mm)



STEP 12. Remove (4) bolts securing arm rest and remove arm rest.

TOOLS: Ratchet, Extension, T-15 Torx Socket



STEP 13. Remove (2) screws under passenger airbag panel.

TOOLS: Ratchet, Extension, Socket (7mm)

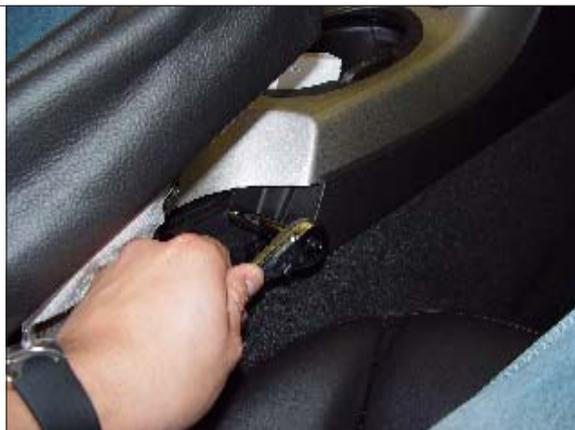


STEP 14. Pull up on sleeve around emergency brake uncovering bolts attaching center console.



STEP 15. Remove (2) bolts holding down front center console.

TOOLS: Ratchet, Extension, Socket (7mm)



STEP 16. Remove passenger side panel and lift up on front center console.



STEP 17. Lift leather boot out of console.



STEP 18. Remove screw securing knob and lift out front center console. Be sure to remove connector wires.

TOOL: Ratchet, Extension, T-20 Torx Socket



STEP 19. Remove foam and (4) nuts securing rubber.

TOOLS: Ratchet, Extension, Socket (10mm)



STEP 20. Remove (4) bolts securing shifter and remove from vehicle.

NOTE: Shifter shown out of car for clarity only.



STEP 21. Gently remove pivot cup from bottom of stick.
For extra protection, use a towel between the channel locks.

TOOL: Channel Locks



C5/C6 CORVETTE ASSEMBLY

STEP 22. Grease B&M Shifter pivot ball and snap original pivot cup into shifter.



STEP 23. Remove old rubber gasket completely and install new gasket.

TOOL: Flathead screwdriver or gasket scraper



STEP 24. Install B&M shifter,

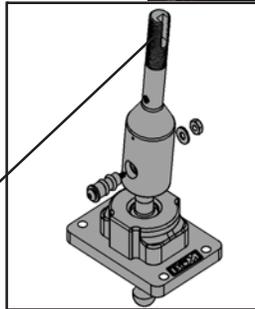
For C-5: slot in shifter should be toward rear of car.

For C-6: Unassemble top of shifter and rotate 180° so that slot faces forward and reassemble.
(see diagram)

Test shifter through all gears.

TOOLS: Ratchet, Extension, Socket (7/16" (11/32"), 3/32" Allen Wrench.

SLOT



C5/C6 OPTIONAL INSTALLATION

NOTE: The following steps are to install the optional spacer and washer that is provided in the kit. A much more solid shifting feel is obtained if installing the provided spacer and washer because it replaces the much softer stock bushings. These steps are not necessary on Z06 model vehicles as it is already solid mounted.

IMPORTANT: The installation of the spacer and washer will transmit more noise and vibration than the softer rubber bushings. If a quieter and less vibration transmitting shift quality is preferred over a more solid and direct shift feel, then **DO NOT** proceed with these optional (A-F) installation steps.



STEP A. See top-right picture for indication of working area. Remove "L" pin from the stock shifter. With the shifter still in neutral and E-brake in the ON position, insert the "L" pin into the pin hole of the shifter base. The "L" pin is used to keep everything aligned. If done correctly, shifter should not be able to shift out of neutral position.



STEP B. Remove bolts (2) securing shifter base to vehicle.

TOOLS: Ratchet, Extension, T-40 Torx Socket



STEP C. Remove stock rubber bushings and spacer.

TOOL: Small Flatblade Screwdriver



STEP D. Install the provided spacers underneath base as shown.

CAUTION! Be careful not to allow spacers to fall under transmission shifter base because of the difficulty of retrieving spacer. Use necessary precautions.



STEP E. Place (2) provided washers on top of each spacer and thread bolts securing shifter base to vehicle.

TOOLS: Ratchet, Extension, T-40 Torx Socket



STEP F. Remove "L" pin from pin hole and test shifter through each gear.



STEP 25. Reinstall foam and (4) nuts securing rubber.

TOOLS: Ratchet, Extension, Socket (10mm)

GO TO STEP 35 FOR C5 REINSTALLATION



C6 CORVETTE REINSTALLATION

STEP 26. Reinstall front center console and install M6 screw securing knob. Be sure to reinstall connector wires.

TOOL: Ratchet, Extension, T-20 Torx Socket



STEP 27. Reinstall leather boot into console.



STEP 28. Reinstall passenger side panel and lift up on front center console.



STEP 29. Reinstall (2) bolts holding down front center console.

TOOLS: Ratchet, Extension & Socket (7mm)



STEP 30. Reinstall sleeve around emergency brake.



STEP 31. Reinstall (1) nut holding down console.

TOOLS: Ratchet, Extension, Socket (10mm)



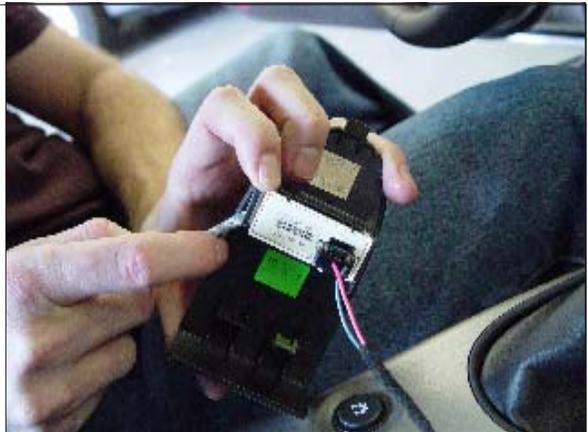
STEP 32. Reinstall (2) screws under passenger airbag panel.

TOOLS: Ratchet, Extension, Socket (7mm)



STEP 33. Reinstall panel for passenger air bag and reinstall module.

TOOLS: Small Flatblade Screwdriver



STEP 34. Reinstall (4) bolts securing arm rest.

TOOLS: Ratchet, Extension, T-15 Torx Socket

GO TO STEP 41 FOR C6



C5 CORVETTE REINSTALLATION

STEP 35. Reinstall front center console and slide rear center console into place.



STEP 36. Reinstall (2) nuts and small inserts at rear of rear center console.

TOOLS: Small Flatblade Screwdriver Ratchet, Extension & Socket (10mm)



STEP 37. Reinstall bolts beside lighter and under ashtray.

TOOLS: Ratchet, Extension, T-15 Torx Socket



STEP 38. Reinstall screw next to ignition key and replace panel.

TOOLS: Ratchet, Extension, T-15 Torx Socket



STEP 39. Reinstall (2) retaining nuts and wire connectors.

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



STEP 40. Reinstall traction control panel and connect all wires.

TOOL: Small Flatblade Screwdriver



STEP 41. Reinstall knob.



STEP 42. Reinstall metal insert into knob and shift pattern indicator.

TOOLS: Hammer & Punch

Be sure all the parts have been securely tightened and shifter engages into each gear.



STEP 43. Ensure that all gears can be smoothly and fully engaged without binding or rough movement. Correct any problems prior to operating the vehicle.



STEP 44. Enjoy!

