



**Installation Instructions**  
**45048**  
**PRECISION SPORT SHIFTER**  
**1999-04 Jeep Wrangler**  
 with NV1500, NV2550 & NV3550 Manual  
 Transmissions

**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.

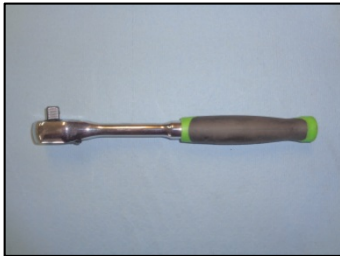
**CAUTION:** To avoid any possibility of bodily injury or damage to vehicle, do not attempt installation until you are confident that the vehicle is safely secured and will not move.

Take a moment to read and understand these instructions before installing your B&M Precision Sport Shifter. Use the parts list below to verify your kit's contents. In the unlikely event of missing parts, please contact B&M Technical Support for replacements.

Installation of the B&M Precision Sport Shifter can be accomplished by anyone with an average amount of mechanical experience. We highly recommend that you retain all factory parts.

PART NO.	DESCRIPTION	QTY.
4100770	SHIFTER ASSY, JEEP WRANGLER, 99-04	1
4100508	DUST BOOT, RUBBER	1
4100418	RETAINING RING, SPRING WIRE	1

**REQUIRED TOOLS AND MATERIALS**



**Ratchet**



**Extension**



**Sockets: 7mm; 8mm;  
10mm; and 9/16"**



**Screwdriver (flat)**



**Torx T-45 bit**



**Trim removal tools**



**Oil-Resistant RTV Sealant**

## REMOVE STOCK SHIFTER

1. Remove shift knob insert. **NOTE: Use care; edges of insert are delicate.**



2. Remove shift knob nut.



3. Remove shift knob.



4. Remove outer dust boot.



5. Remove center console bolt next to shifter.



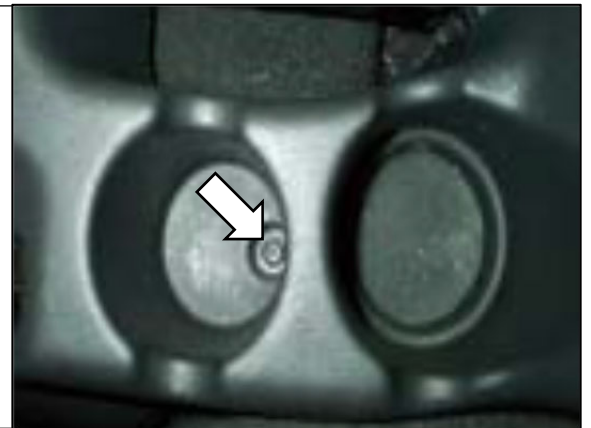
6. Remove console bolt in bottom of cup holder.

**1999 AND 2000 MODELS** have a 1-piece center console; continue removal with Steps 7-9.

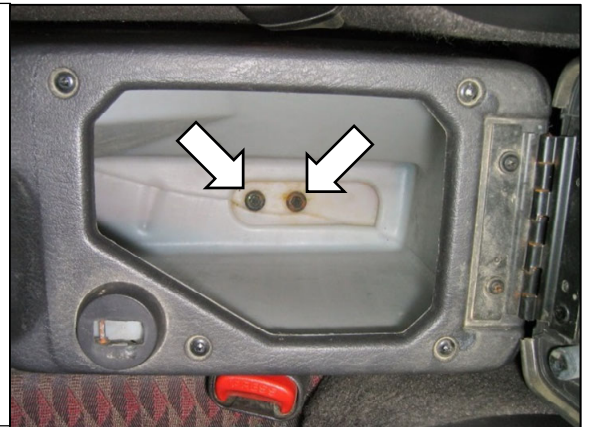
**2001-04 MODELS** have a 2-piece center console.

Remove the cup holder insert and the screw that is under it, **then go directly to Step 9** to remove only the front half of the console.

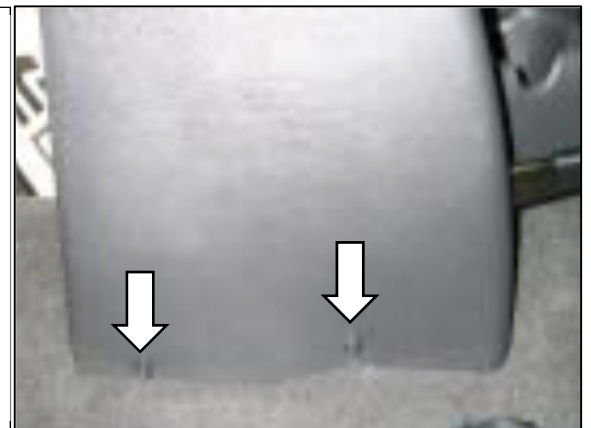
**Some 1999-2004 models** have a “mini” console (similar in size to just the front half of the 2-piece consoles); **go directly to Step 9** to remove it.



7. **1999-2000 models:** Lift the console storage lid, then remove the two bolts shown.



8. **1999-2000 models:** Remove passenger-side seat, then remove bolts at bottom of center console.



9. Engage parking brake lever for clearance, then remove entire center console (1999-2000), the front half of the console (2001-04), or the “mini” console (some 1999-2004).

**2001-04 models: Proceed to Step 13.**



10. **1999-2000 models:** Remove inner dust boot.



11. **1999-2000 models:** Remove transfer case shifter base.



12. **1999-2000 models:** Remove floor plate. **Proceed to Step 16.**



13. **2001-04 models**: Remove transfer case shifter base.



14. **2001-04 models**: Remove shift lever.



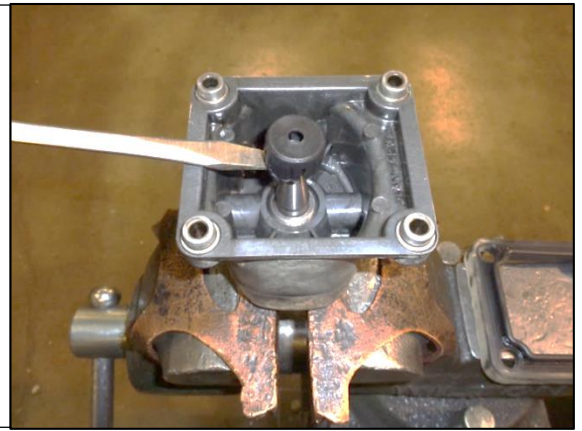
15. **2001-04 models**: Remove floor plate and attached dust boot.



16. Remove stock shifter from transmission housing (4 screws at lower / square flange).

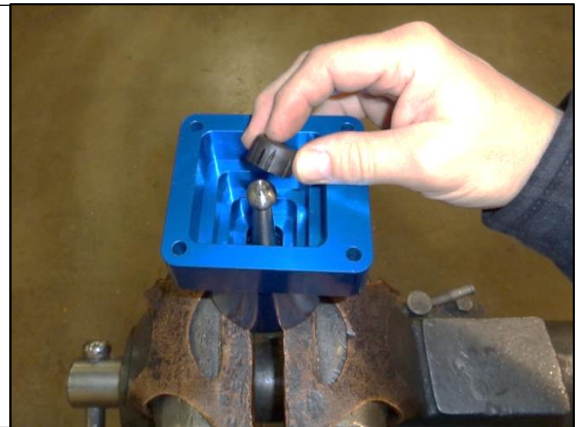


17. Remove plastic pivot cup from stock shifter.  
**NOTE: USE CARE, pivot cup will be re-used.**



## INSTALL YOUR B&M PRECISION SPORT SHIFTER

18. Carefully press pivot cup onto B&M shifter.



19. Apply bead of oil-resistant RTV sealant around base of shifter.



20. Install B&M shifter on transmission. Torque fasteners to manufacturer's specification.



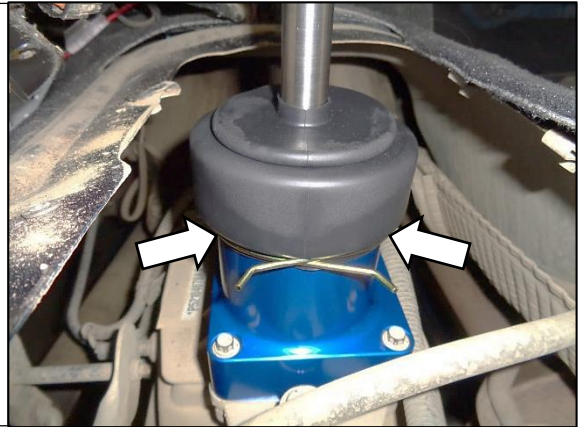
21. Place the retaining ring over the shifter, and temporarily push it down to the square mount flange.



22. Install the B&M dust boot over the shift lever and the shifter housing. Slide it all the way onto the housing, so that the inside of the boot sits on the top of the housing.



23. Install the boot retainer over the lip at the bottom of the dust boot.



24. Reinstall floor plate.



25. Reinstall transfer case shifter base.



26. **1999-2000 models:** Reinstall inner dust boot.



27. Reinstall center console as appropriate for your vehicle's model year. Installation is the reverse of removal.



28. Reinstall outer dust boot.





29. Install shift knob jam nut.



30. Carefully press insert back into knob.

Test the movement of shifter through all gears.

DO NOT operate vehicle until all gears can be smoothly and fully engaged.

**Congratulations, the installation of your B&M Precision Sport Shifter is now complete!**



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

