



## Installation Instructions PRECISION SPORT SHIFTER

Fits: 2007-2017 Jeep Wrangler JK  
w/ NSG370 Manual Transmission  
Catalog # 45195

**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 Precision Sport Shifter has been designed to work on Jeep Wrangler JK model vehicles equipped with the NSG370 manual transmission. It has been engineered to greatly reduce shift throw, improve shifter feel and stiffness. Check the parts list and tool 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 the B&M Precision Sport Shifter can be accomplished by anyone with minimal mechanical experience.

### DISASSEMBLY:

1) Remove the shifter knob and transfer case shifter knob with a rubber strap wrench. First put the shifter in neutral and the transfer case in 4 High. Lightly rock the knob back and forth as you pull up to remove the knobs.



2) Grab the back of the center console by the cup holders and pull up to un-clip the console to remove.



3) Unscrew the square secure plate holding the rubber boot over the shifter. Then remove the rubber boot.



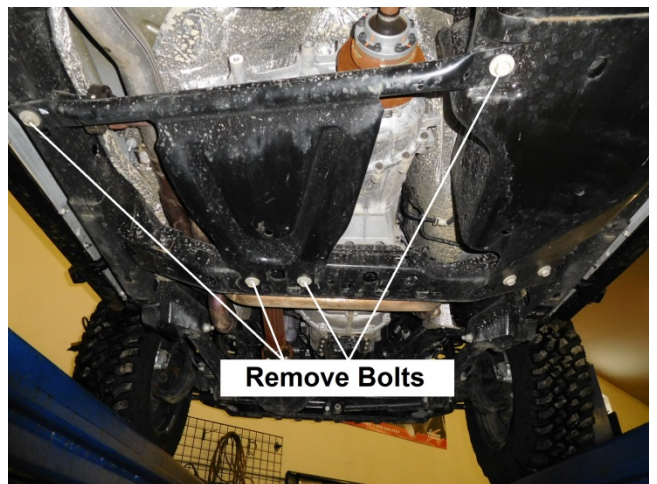
4) Use a ratchet and T45 torx socket to remove the bolt in the center of the shifter.



5) Spray some lubricant in the hole where the bolt was removed. Then with a pair of vise grips, clamp onto the stick down low near where the bolt was removed and lightly hit the vise grips with a hammer to pull the shifter stick off of the shifter shaft.



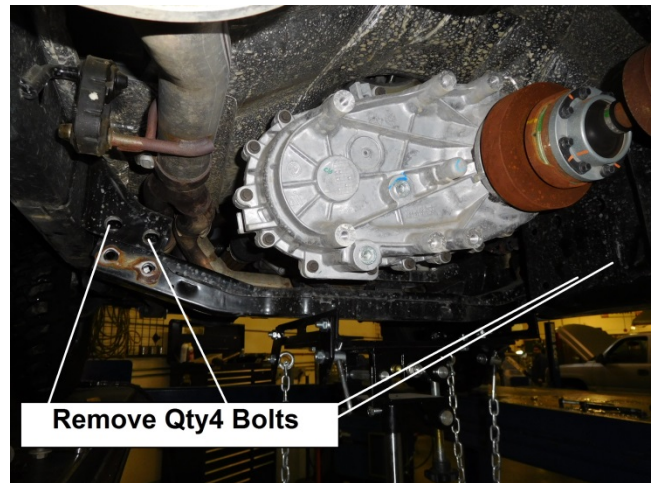
6) Use a ratchet and 18mm socket to remove the 4 bolts securing the transfer case skid plate.



7) Support the center of the fuel tank with a jack or a stand. Use a ratchet and an 18mm socket to remove Qty. 5 bolts of 7 that hold up the fuel tank. Then only loosen the last two bolts in the back. Lower the jack or stand to allow the front of the fuel tank to drop down to expose the transmission crossmember bolts on the passenger side.



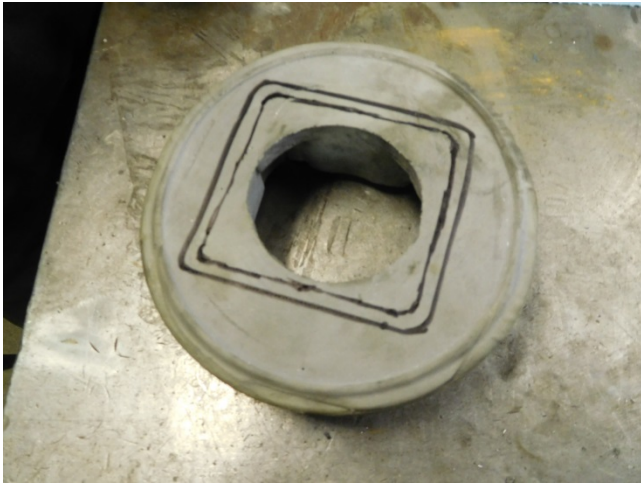
8) Support the center of the transmission crossmember with a jack or a stand. Remove qty. 4 bolts to lower the transmission down roughly 2"- 4".



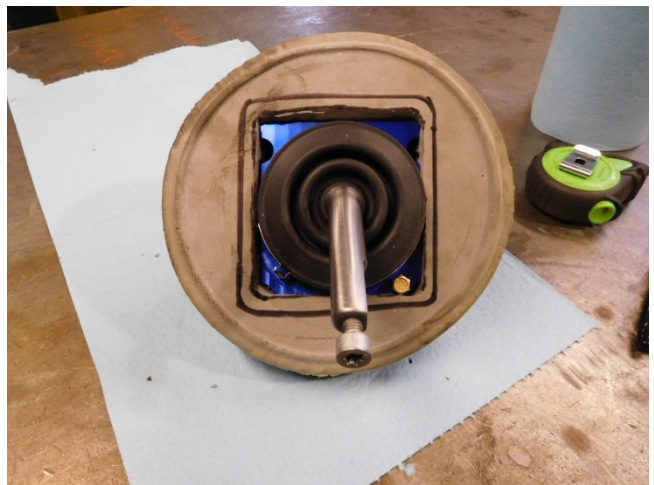
9) From underneath the car reach your hand up to the top of shifter and carefully push the styrofoam shifter donut up through the interior hole in the floor. This shifter donut seal keeps water from coming inside the vehicle. If this donut gets torn or damaged, it is a low cost part available through your local Dodge/Jeep dealer.



10) On a table place the new B&M shifter on top of the shifter donut and trace it out with a marker. Once you trace out the outer perimeter of the shifter onto the donut, then you need to measure 1/4" inside of the outer perimeter.



11) Carefully cut along the inside line marked out to allow the B&M shifter to fit securely.

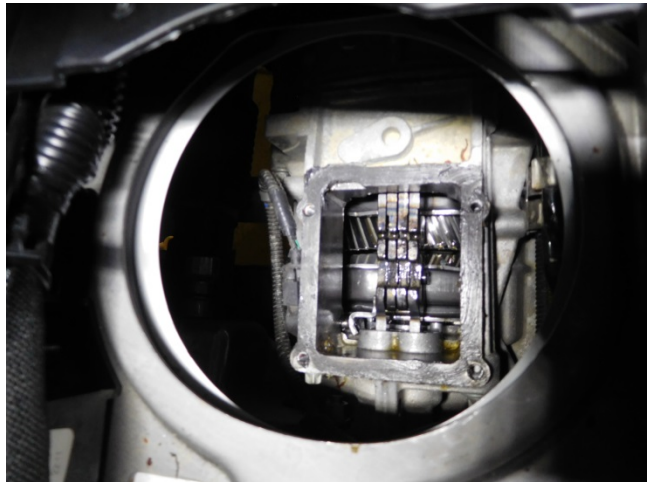


12) Use a ratchet with a T30 torx socket to unbolt and remove the stock shifter.

**Note:** Make sure the shifter is still in neutral position.

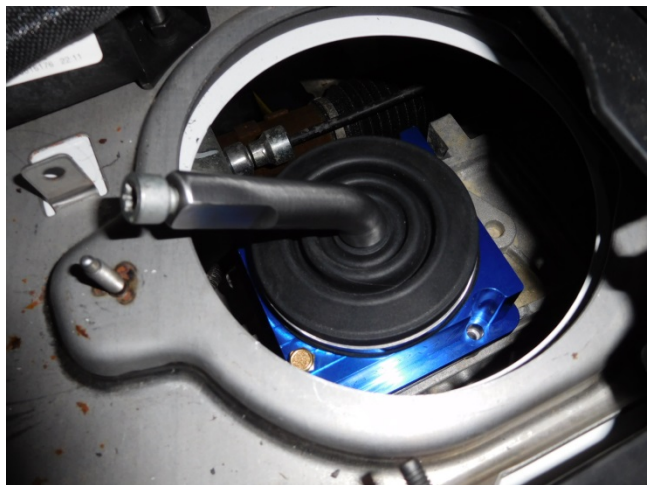


13) Wipe clean with a lint free towel or rag around the shifter base area and apply black rtv silicone sealer to the base.



### Installation:

14) Install the B&M shifter with the factory bolts from the stock shifter and secure it firmly to the transmission.



15) Reinstall the shifter donut from the interior side down over the shifter.

**Note:** Be careful not to rip or tear the donut.



16) In reverse order repeat steps 6 to 8 to re-install the crossmember, fuel tank and transfer case skid plate.



17) Reinstall the factory shifter stick onto the B&M shifter shaft and secure it with the factory bolt.



18) Reinstall the rubber boot over the factory shifter stick and secure it to the floor with the factory square flat nut.



19) Reinstall the center console and press the factory knob onto the shifter and transfer case stick.

