



# Installation Instructions

## *Pro Ripper Shifter*

### *1983-2003 Ford Mustang*

*with T-5, T-5 w/OD & T-45 Transmission*

**Part Number 45070**

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This **B&M Pro Ripper Shifter** has been designed to work on all 1983-2003 Ford Mustang models equipped with T-5, T-5 w/OD and T-45 transmissions. 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 Pro Ripper Shifter**. Installation of the **B&M Pro Ripper Shifter** can be accomplished by anyone with minimal mechanical experience.

#### INTRODUCTION

This **B&M Pro Ripper 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.

PARTS					
B&M Pro Ripper		Upper Stick		Threaded Adapter	
Heavy Spring (2)		Shift Stop (2)		Shift Stop Jam Nut (2)	
Mounting Stud (4)		Washer (4)		Mounting Nut (4)	

## PARTS

Button-head Screws (4)



Thread Adhesive



## TOOLS

Socket(8mm,10mm,13mm)



Socket Drive



Extension



Hex Wrench(3/16,1/4,  
5/16)



Wrench (3/4")



RTV Silicone



## DISASSEMBLY

**STEP 1.** Unscrew knob.



**STEP 2.** Carefully unsnap shift boot from center console.



**STEP 3.** Unclip cigarette lighter wire harness.



**STEP 4.** Remove four (4) bolts from protective boot.  
Tools: Drive, extension, 8mm socket



**STEP 5.** Remove two (2) upper stick bolts.  
Tools: Drive, 10mm socket



**STEP 6.** Remove upper stick.



**STEP 7.** Remove protective boot.



**STEP 8.** Remove four (4) shifter base bolts.  
Tools: Drive, extension, and 13mm socket.



**STEP 9.** Remove shifter base.

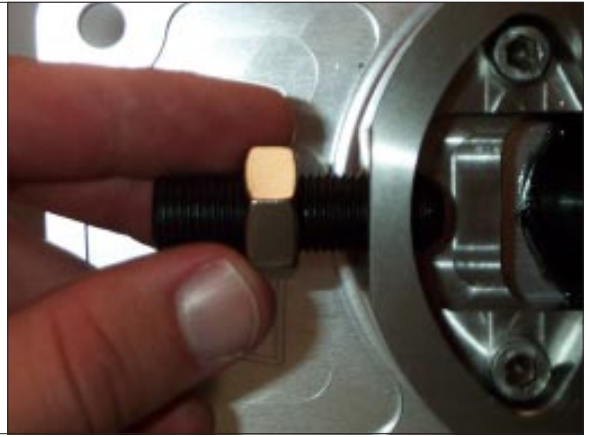


## ASSEMBLY

**STEP 10.** Thread shift stops into appropriate holes.  
Parts: Shift stop (2)



**STEP 11.** Thread jam nuts onto shift stops.  
Parts: Shift stop jam nuts (2)



**STEP 12.** If a stiffer side-to-side action is desired, follow the next three steps.

Remove socket locks from shift stop ring.  
Tools: 5/16" Allen wrench



**STEP 13.** Replace softer springs with supplied stiffer springs.  
Parts: Stiff springs (2)



**STEP 14.** Reinstall socket locks in shift stop ring.  
NOTE: Make sure two (2) threads are exposed from shift stop ring to socket lock.  
If socket lock is down too far, transmission may not engage.  
Tools: 5/16" Allen wrench



**STEP 15.** Install four (4) mounting studs.

Tools: 4mm Allen wrench

Parts: Mounting studs



**STEP 16.** Apply bead of RTV silicone around perimeter of **B&M Pro Ripper** base.

Parts: **B&M Pro Ripper Shifter**

Tools: RTV silicone



**STEP 17.** Install **B&M Pro Ripper Shifter**.

Part: **B&M Pro Ripper Shifter**



**STEP 18.** Install four (4) washers and four (4) mounting nuts.

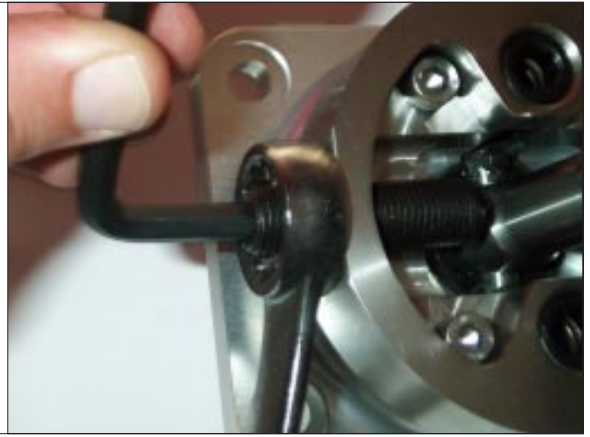
Tools: Drive, extension, and 13mm socket

Parts: Washers, Mounting nuts

Note: If the transmission fluid level is low, add more thru the fluid fill hole on the base of the shifter.



**STEP 19.** Adjust shift stops accordingly.  
**Note:** Make sure all gears are fully engaged  
Tools: 3/4" open-ended wrench, 1/4" allen wrench



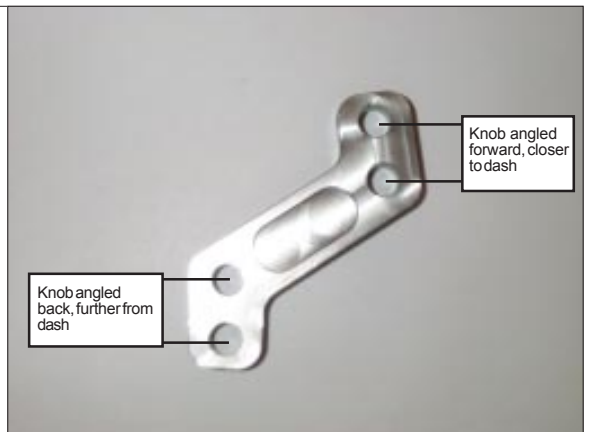
**STEP 20.** Install protective rubber boot.



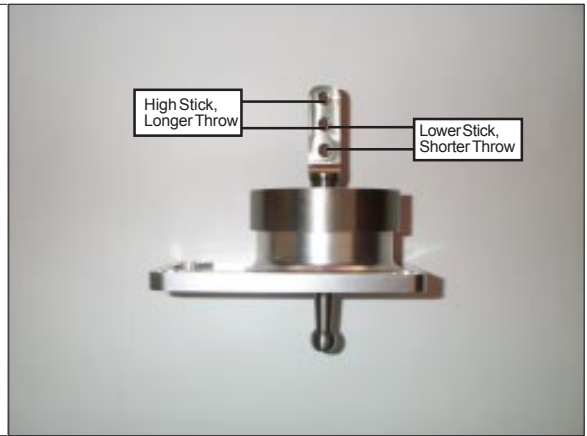
**STEP 21.** Install four (4) bolts securing protective boot.  
Tools: Drive, extension, and 8mm socket



**STEP 22.** Decide placement of knob.



**STEP 23.** Decide how short you want the lever. Bottom two holes will provide a lower stick and shorter throws.



**STEP 24.** Install upper stick in position decided in steps 19 and 20 using thread adhesive.

Parts: Upper Stick, Button-head Screws(2) & thread adhesive

Tools: 3/16" Allen wrench

**NOTE: FAILURE TO USE THREAD ADHESIVE  
COULD RESULT IN SHIFTER MALFUNCTION.**



**STEP 25.** Install threaded knob adapter.

NOTE: If adapter is installed as seen in picture, knob will be closer to driver

Parts: Threaded Adapter, Button-head Screws (2) & thread adhesive.

Tools: 3/16" Allen wrench

**NOTE: FAILURE TO USE THREAD ADHESIVE  
COULD RESULT IN SHIFTER MALFUNCTION.**



**STEP 26.** Reconnect cigarette lighter wire harness.





**STEP 27.** Install shift boot.



**STEP 28.** Install knob.

