



# Installation Instructions PRO RIPPER SHIFTER

Fits: 1983-2003 Ford Mustang  
w/T-5, T-5 w/OD and T-45 Transmission  
Catalog # 45070

**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.

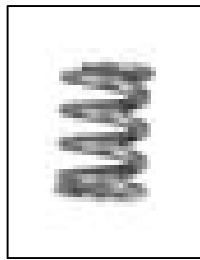
**CAUTION:** To avoid any possibility of bodily injury or damage to vehicle, do not attempt installation until you are confident that the vehicle is safely secured and will not move.

This B&M 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.

## PARTS



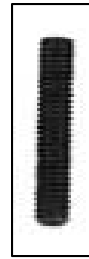
B&M Pro Ripper



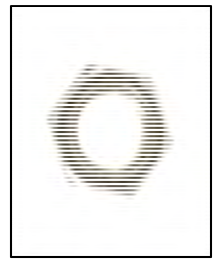
Heavy Spring (2)



Shift Stop (2)



Mounting Stud (4)



Shift Stop Jam Nut (2)



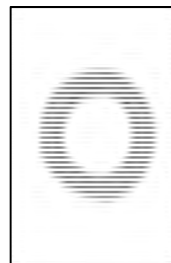
Upper Stick



Mounting Nut (4)



Threaded Adapter

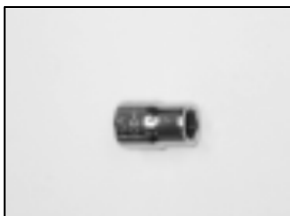


Washer (4)



Button-head Screws (4)

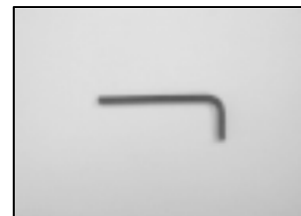
## TOOLS



Socket (8mm, 10mm, 13mm)



Extension



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

## TOOLS cont.



Socket Drive



RTV Silicone



Wrench (3/4")

## DISASSEMBLY

1. Unscrew the knob.



2. Carefully unsnap the shift boot from the center console.



3. Unclip the cigarette lighter wire harness.



4. Remove the four (4) bolts from the protective boot.

Tools: Drive, extension, 8mm socket



5. Remove the two (2) upper stick bolts.

Tools: Drive, 10mm socket



6. Remove the upper stick.



7. Remove the protective boot.





8. Remove the four (4) shifter base bolts.

Tools: Drive, extension, and 13mm socket.



9. Remove the shifter base.



## ASSEMBLY

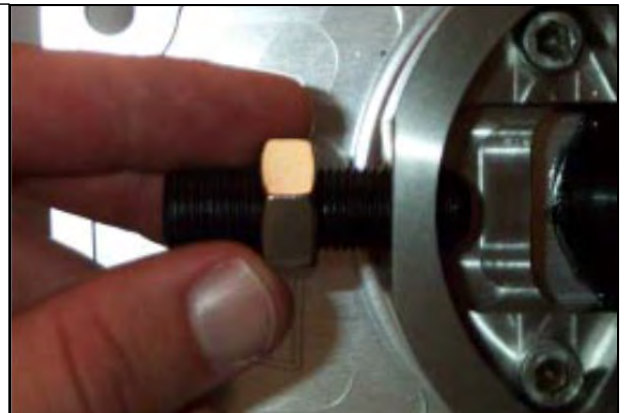
10. Thread the shift stops into appropriate the holes.

Parts: Shift stop (2)



11. Thread the jam nuts onto the shift stops.

Parts: Shift stop jam nuts (2)



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

Remove the socket locks from shift stop ring.

Tools: 5/16" Allen wrench



13. Replace the softer springs with supplied the stiffer springs.

Parts: Stiff springs (2)



14. Reinstall the socket locks in shift stop ring.

**NOTE:** Make sure two (2) threads are exposed from the shift stop ring to the socket lock. If the socket lock is down too far, the transmission may not be engaged.

Tools: 5/16" Allen wrench



15. Install the four (4) mounting studs.

Tools: 4mm Allen wrench

Parts: Mounting studs



16. Apply a bead of RTV silicone around the perimeter of the B&M Pro Ripper base.

Parts: B&M Pro Ripper Shifter

Tools: RTV silicone



17. Install the B&M Pro Ripper Shifter.

Part: B&M Pro Ripper Shifter



18. Install the 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 through the fluid fill hole on the base of the shifter.



19. Adjust the shift stops accordingly.

**NOTE:** Make sure all gears are fully engaged.

Tools: 3/4" open-ended wrench, 1/4" allen wrench





20. Install the protective rubber boot.

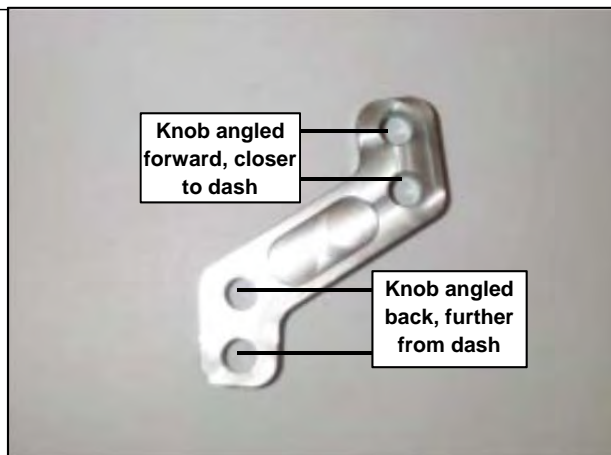


21. Install the four (4) bolts securing the protective boot.

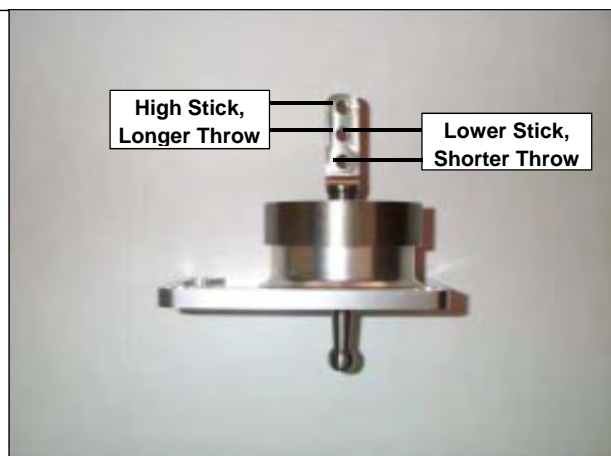
Tools: Drive, extension, and 8mm socket



22. Decide the placement of the knob.



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



24. Install the upper stick in the 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.



25. Install the threaded knob adapter.

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



26. Reconnect the cigarette lighter wire harness.



27. Install the shift boot.





28. Install the knob.



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

#### **Technical Service**

A highly trained technical service department is maintained by Hurst Performance to answer your technical questions, provide additional product information and offer various recommendations.

Technical service calls, correspondence, and warranty questions should be directed to:



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(707) 544-4761

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