



## Installation Instructions

# BILLET/PLUS COMPETITION SHIFTER

Fits: 2001-2004 Ford Mustang V8 w/Manual Transmission

Catalog# 3915035

**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.

**NOTE:**

In some cases the factory console will have to be removed in order to install the Billet/Plus shifter. Due to differences in design and model year changes, we recommend that you refer to your factory service manual for your specific model year to determine the proper procedure for console removal.

### FACTORY SHIFTER REMOVAL

1. Place the shifter into Neutral position.
2. Remove the shifter knob from the stick by turning it counter-clockwise.
3. Using both hands, place your fingers underneath each side of the shifter boot. Grasping the console top plate, pull up to remove the top plate from the console.
4. Remove the 4 screws that secure the stock shifter boot to the floor tunnel and remove the boot. Also, remove the additional rubber boot (inner dust cover) located underneath the stock shifter boot.
5. Using a 13mm socket, remove the four hex head bolts that fasten the stock shifter assembly to the transmission. Discard the bolts, new ones are supplied. Lift the shifter assembly straight up and off.  
**NOTE:** You may have some difficulty in removing the stock shifter from the transmission due to the adhesive sealant applied at the factory.
6. Remove and inspect the plastic cup bushing inside the transmission, replace if worn or damaged.  
**NOTE:** This part is available only from Ford dealers. Re-install the bushing back into the transmission.

### BILLET/PLUS SHIFTER INSTALLATION

1. Clean the shifter mounting surface on the transmission and apply RTV or a similar sealant on the mating surfaces of the shifter mounting base and transmission.
2. Install the Billet/Plus Shifter assembly onto the transmission, making sure that the ball on the stick bottom fits properly into the plastic cup bushing.

3. Fasten the Billet/Plus shifter to the transmission using the supplied hex head bolts and flatwashers.  
**NOTE: DO NOT USE THE ORIGINAL BOLTS.** Tighten the bolts evenly to 15-20 ft. lbs. torque.

### **Shifter Stop Bolt Adjustment**

4. Loosen hex nuts on the shifter stop screws and using a hex key wrench, turn the screws out until they are flush with the inside of the aluminum collar.

Pull the stick firmly into 2<sup>nd</sup> gear and hold securely. Turn the rear-stop-bolt in until it contacts the stick. Hold the bolt securely with the hex key wrench and tighten the jam nut.

Repeat the adjustment on the forward stop bolt. Push the stick firmly into 3<sup>rd</sup> gear, and hold securely. Turn the front stop bolt in until it contracts the stick. Hold the bolt securely with the hex key wrench and tighten the jam nut.

### **Test Shifter Operation**

5. Move the stick through the entire gear shift pattern, making sure it engages each gear fully and that the stick moves freely from side to side in the "Neutral" position.

### **Optional Adjustment of the Shifter Stick Tension**

**NOTE:** Shifter operation can be made "softer" by removing the smaller spring (inner) from each side of the shifter stick.

**CAUTION:** SUDDEN RELEASE OF SPRINGS THAT ARE UNDER COMPRESSION IS DANGEROUS. RELEASE THE SPRINGS CAREFULLY.

**IMPORTANT:** REMOVE THE SPRINGS ONE SIDE AT A TIME. THE SHIFTER CAN BECOME DISASSEMBLED IF BOTH SIDES ARE REMOVED AT THE SAME TIME.

Loosen and carefully remove both socket head cap screws. Remove the retainer plate to expose the springs. Remove the inner (smaller) spring only. Replace the retainer and screws. Tighten both screws to 125-150 inch pounds. Repeat this procedure on the opposite side.

**NOTE:** If you are not satisfied with the "softer" shifter stick tension, re-install the inner springs.

6. Slide the rubber boot (supplied) over the shifter stick and down over the collar. Secure it at the bottom using the supplied plastic tie strap.

**IMPORTANT:** This boot must be installed to prevent dirt and moisture from entering the shifter base housing which can cause premature wear of the shifter.

7. Replace the factory inner dust cover and the stock factory rubber boot. Secure to the floor tunnel with the four screws previously removed.

8. Replace the console top plate and shifter boot into the console by carefully pushing down firmly until it snaps into place.

9. Install the factory knob onto the shifter stick.

**NOTE:** The shifter stick is threaded to accept any knob having 12mm-1.75 thread.

**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:



**Hurst Performance Products**

(707) 544-4761

[www.Hurst-Shifters.com](http://www.Hurst-Shifters.com)