



Billet/Plus™ Short Throw Shifter

**1990-98 JEEP WRANGLER 2.5L 4Cyl.
with 5-Speed AX-5 Transmission**

Catalog #391 5043

INSTALLATION INSTRUCTIONS

IMPORTANT! Read this instruction sheet completely so that you thoroughly understand it and can become familiar with the procedure before attempting installation.

WORK SAFELY! Perform this installation on a good clean level surface for maximum safety and with the engine turned "off". Apply parking brake and 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 shifter installation until you are confident that vehicle is safely secured and will not move.

FACTORY SHIFTER REMOVAL

1. Remove shifter & transfer case (4x4) lever knobs. Most Jeeps have a jam nut under the knobs. Loosen nut and turn knobs counter-clockwise. **NOTE: Some late model Jeeps have the jam nut inside the knob under the lens.** If so, carefully pry the lens up with a small screwdriver and then remove the nut. The knob will now spin off.

2. Remove upper boot (see fig.1). Pull back carpet from edge of boot. Remove 7 hex head screws with a 8mm socket. Pull boot up over shifter stick and transfer case lever and remove.



Figure 1

3. Remove lower floor-pan boot (see fig.2). Remove 3 Phillips head screws and pry up the boot with a screwdriver. Carefully work the boot up and over the transfer case (4x4) selector lever and shifter stick to remove.



Figure 2

4. Shifter housing removal:

a) Early 1996 to 1998; Remove 4 bolts holding housing to transmission with a 12mm socket or wrench.

b) 1990 to late 1995; Remove 2 housing bolts on the passenger side with a 12mm socket or wrench. Remove 2 nuts from the mounting studs on the driver side of the housing with a 13mm deep well socket or wrench.

Remove any other bolts holding the transfer case (4x4) pivot bracket to the transmission. **NOTE: It may be necessary to work from under the vehicle.**

NOTE: There have been many different bracket designs during these years. There are typically 1 or 2 bolts holding the bottom of the bracket to the side of the transmission. They may both be located on the side of the transmission. Some models may also have the bracket bolted to the transmission/transfer case flange.

Carefully lift transfer case (4x4) pivot assembly off the shifter studs and set it out of the way of the shifter housing. It is not necessary to remove any of the transfer case lever linkage. Remove 2 shifter housing studs with a 12mm wrench or deep well socket and remove shifter assembly from transmission.

5. Carefully remove any gaskets or baffles from the transmission surface and note their position (see fig.3).

NOTE: Place a clean rag in the opening where the shifter was to prevent debris from entering the transmission until the Hurst shifter installation begins. If the gaskets are torn or damaged, replace by ordering from your local Chrysler/Jeep dealership. The gasket is Chrysler Part No. 83500-521.

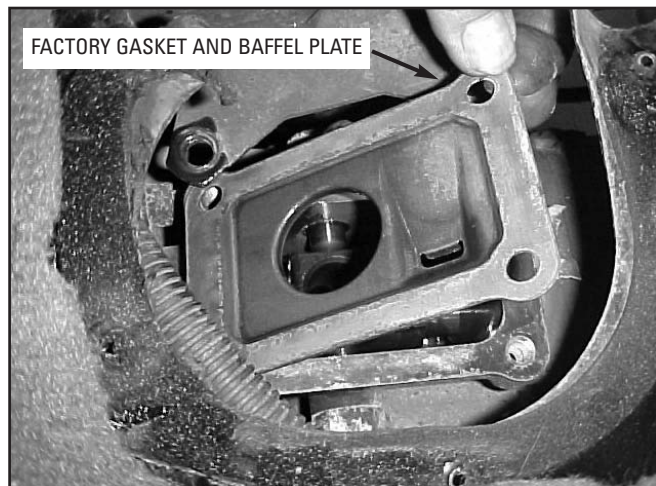


Figure 3

6. Pry the plastic cup bushing (see fig.4) from the end of the factory shifter with a 5/8" open end wrench. If this cup bushing is worn or damaged, replace by ordering from your local Chrysler/Jeep dealership. The bushing is Chrysler Part No. 83500-519.

BILLET/PLUS SHIFTER INSTALLATION

1. Install the factory cup bushing onto the Hurst shifter. Place the bushing open end up on a workbench. Put a small amount of gear lube on the ball end of the stick bottom, and place the ball in the open end of the cup bushing. Gently push down on the stick bottom until the ball snaps into the bushing.

2. Clean all mounting surfaces, check for dirt or debris in the transmission, and replace any gasket(s) or baffles that were removed.

3. Place the Hurst Billet/Plus Shifter assembly onto the transmission making sure that the cup bushing on the stick bottom fits properly into shift selector socket inside the transmission. Fasten securely with the four (4) 10mm fasteners and flat washers supplied. Tighten securely. **NOTE: You must re-use the 2 driver's side studs & nuts if working on a pre-1996 model.**



Figure 4

4. Replace the transfer case (4x4) lever pivot bracket if it was removed and tighten fasteners securely.

5. Slide rubber boot (supplied) over Hurst shifter stick and down over the housing collar. Secure at bottom using plastic tie strap supplied. **IMPORTANT: This boot must be installed to prevent dirt and moisture from entering shifter base housing which can cause premature wear of shifter.**

6. Reinstall the lower floor pan boot with the 3 Phillips head screws previously removed.

7. Reinstall the factory upper boot with the 7 hex head screws previously removed.

8. Install jam nut and shifter knob onto stick. Turn to correct position and tighten jam nut against knob.

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. See your local retailer of Hurst products for specific prices.

For best results, Technical Service calls, correspondence and warranty questions should be directed to the following address:

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**RETAIN THESE INSTRUCTIONS
FOR FUTURE REFERENCE.**