

Installation Instructions

Part No. 3734089

Competition/Plus® Installation Kit

For MOPAR vehicles w/New Process 4-speed transmission.
See "Applications" tab on this product's page at www.hurst-shifters.com for
specific vehicle & model year fitment.

Rev 03/02/2020



WORK SAFELY: Perform this 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 disconnect or installation until you are confident that the vehicle is safely secured and will not move.

ATTENTION: Due to variations in the auto manufacturing tolerances, the transmission rods supplied with this kit may require slight bending to clear any obstructions, etc. Protect the threads while bending. **BEND RODS COLD! – DO NOT APPLY HEAT!**

1. Remove the boot and console. Remove the stock shifting linkage.
2. Install the mounting plate on the transmission. Tighten the 3 flat-head socket screws evenly.
3. Place the spacer plate on the mounting plate. Install the shifter on the spacer plate and tighten the mounting bolts.
4. Assemble the rods and arms using nylon bushings and fasten with spring clips. See the exploded assembly view for proper parts combinations. Screw the rod adjusting buttons onto the rods, to the middle of the threaded length of each rod.
5. Bolt the stick to the shifter and tighten both bolts.
6. Install the arms onto the transmission shafts. Refer to the exploded assembly view.
7. Align all three shifter levers at Neutral by grasping them between the thumb and forefingers and aligning all three levers together with the edges of the shifter frame. (See Fig. 1.)

IMPORTANT

BE CAREFUL TO AVOID DISTURBING THE POSITIONS OF THE LEVERS WHILE INSTALLING THE BUTTONS.

8. Rotate the transmission arms backward and forward. At the middle of the travel you will feel the Neutral position of the 1st/2nd and 3rd/4th arms. Position both of these arms at Neutral. Turn the Reverse control arm all the way FORWARD (DIS-ENGAGED).

NOTE: Do not move any of the arms from these positions while the Neutral alignment is being adjusted.

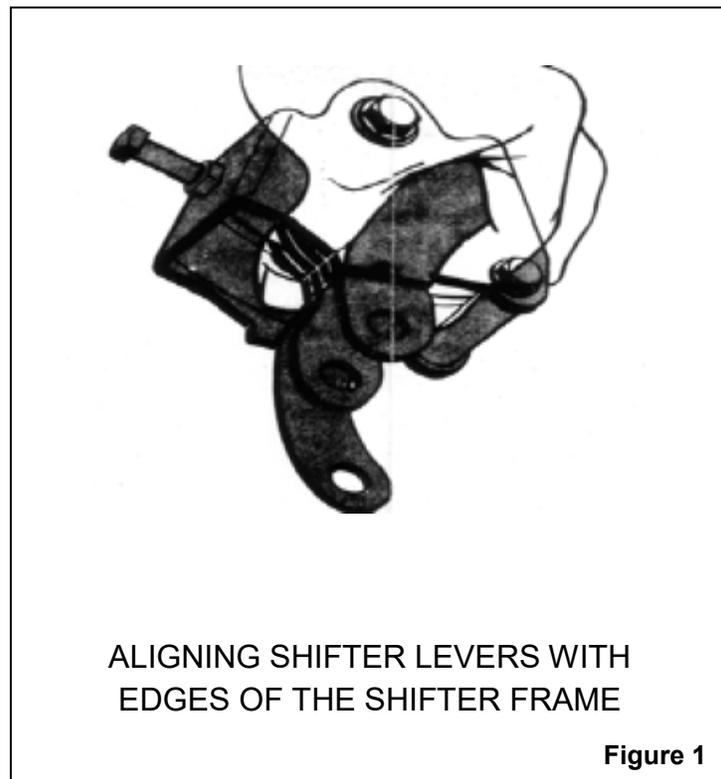
9. Adjust the button on each rod until it fits freely into the nylon bushing without moving the lever. Fasten the buttons with spring clips.

10. Test the shifter. The stick should move freely from side to side at Neutral (between 1st/2nd and 3rd/4th shifting paths). An increased pull toward the operator should engage the reverse lever. If the shifter operates properly, proceed to Step 12.

11. If the stick CANNOT be moved freely between 1st/2nd and 3rd/4th or Reverse path, one or more of the rod button adjustments must be corrected. Move the stick forward to 3rd, then back to 4th, then into Neutral.

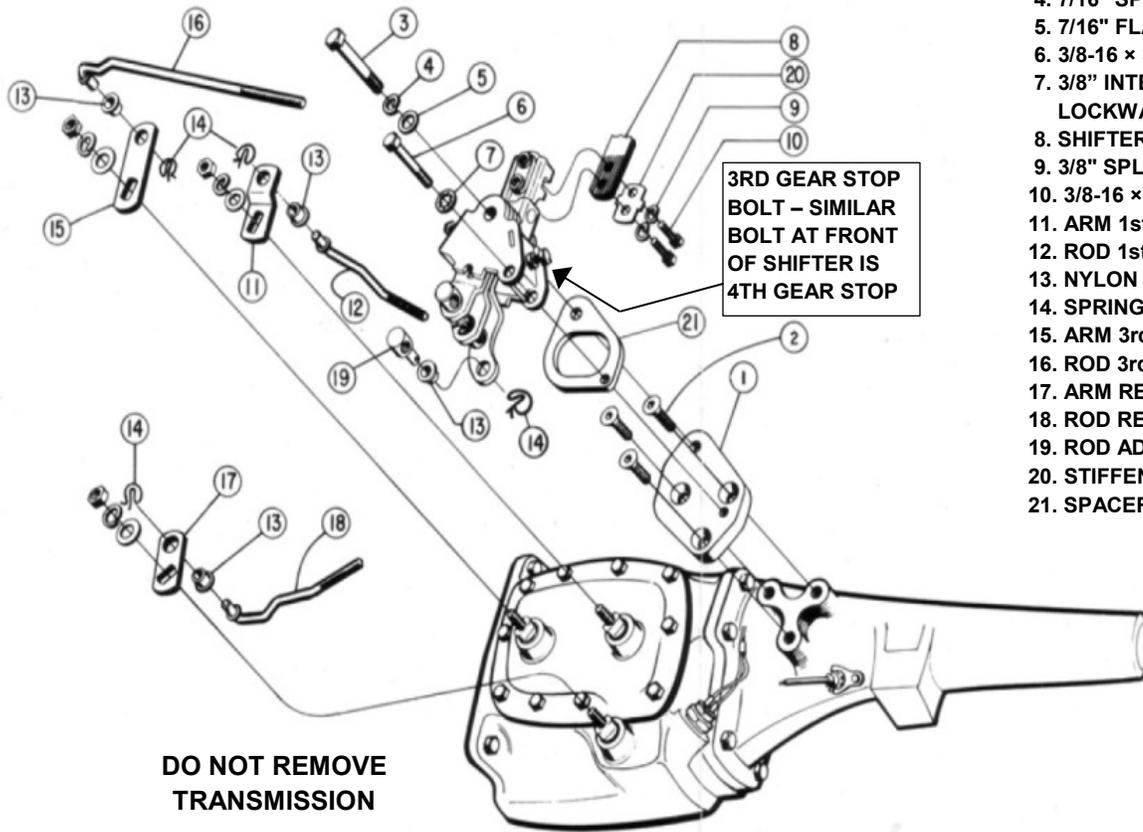
12. Adjust the shifter stop bolts. Back both bolts out of the shifter frame until only a few threads remain engaged. Push the stick firmly into 3rd gear and hold. Screw the 3rd gear stop bolt in until contact is felt. Back the bolt out one turn and tighten the lock nut. Pull the stick firmly back into 4th gear, screw the 4th gear stop bolt in until contact is made then back stop the bolt out one turn and tighten the lock-nut.

13. Replace the console and boot.



**DO NOT DISASSEMBLE
SHIFTER UNIT**

1. MOUNTING PLATE
2. 3/8-16 × 1" FLAT HEAD SOCKET SCREW (Qty 3)
3. 7/16-14 × 3" BOLT
4. 7/16" SPLIT LOCK WASHER
5. 7/16" FLAT WASHER
6. 3/8-16 × 3" BOLT
7. 3/8" INTERNAL TOOTH LOCKWASHER
8. SHIFTER STICK
9. 3/8" SPLIT LOCK WASHER (Qty 2)
10. 3/8-16 × 7/8" BOLT (Qty 2)
11. ARM 1st / 2nd
12. ROD 1st / 2nd
13. NYLON BUSHING (Qty 6)
14. SPRING CLIP (Qty 6)
15. ARM 3rd / 4th
16. ROD 3rd / 4th
17. ARM REVERSE (1 EARLY; 1 LATE)
18. ROD REVERSE
19. ROD ADJUSTING BUTTON (Qty 3)
20. STIFFENER PLATE
21. SPACER PLATE



**DO NOT REMOVE
TRANSMISSION**

Figure 2

IMPORTANT: RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE

Technical Service

Hurst Performance maintains a highly trained technical service department to answer your technical questions, provide additional product information and offer various recommendations.



Hurst Performance Products

(866) 464-6553

www.hurst-shifters.com