640 North El Dorado Street Stockton, CA 95202 Phone (209)943-0991 Fax (209)943-7923
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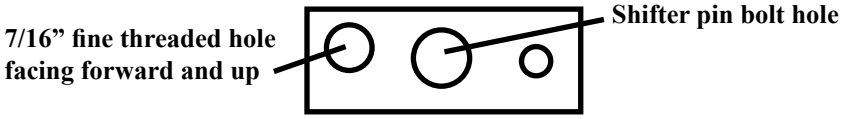
J-Shifter Twin Stick

#8555 Date 07/09/04 rev. 1

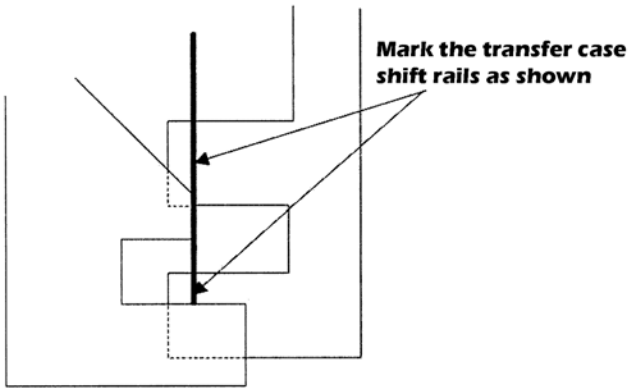
Parts
Mounting block
Rear shifter
Front shifter
Shifter pin bolt

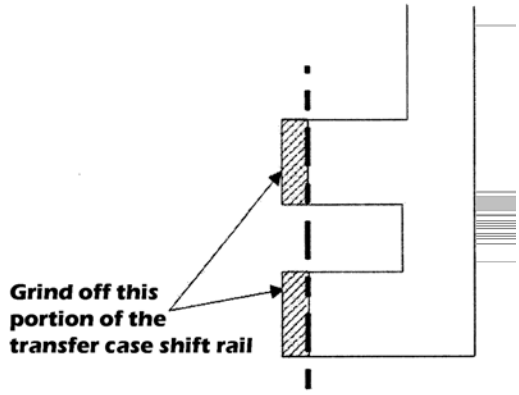
Hardware
1 ea. 7/16" x 2 ½" bolt
1 ea. 3/8" x 1 ¼" bolt
2 ea. lock washers

Note: Use Anti-Seize (Permatex p/n 133k) or similar on all installation bolts and especially the shifter pin bolt. The shifter is assembled with the mounting block in the correct position. The mounting block will need to be removed and lubed upon installation. Make sure the mounting block is reinstalled in the same position as it was when it was pulled out of the box. The position of the mounting block be in for proper operation of the twin stick is with the 7/16" fine threaded hole facing forward and up in relation to the shifter pin bolt hole.



1. Move the Bronco to a level area and block wheels and disconnect the battery for saftey.
2. Remove the old shifter knob and boot.
With a little work the old j-shifter can be remove without cutting the tunnel. Some people opt to cut a lager hole in the tunnel to make the install easier. After the installation a sheet metal cover piece will need to be fabricated. Each opening will be unique and require a custom fitted cover due to body lift amount etc.
NOTE: The following step is critical for the J-Shifter Twin Stick install to function properly.
3. The shift rails will require modifications. Care must be taken to modify the rails exactly as illustrated in Figure 1 or the new shifter will not function correctly. Use a cut-off wheel to make the modifications to the shafts.
4. Bolt the mounting block to the transmission adapter. The 7/16" bolt will go thorough the adapter from the right side and thread into the mounting block. The 3/8" bolt goes thorough the mounting block and threads into the adapter. **DO NOT** over tighten the bolts into the mounting block.
5. Move the shifters thorough the gears to see if the tunnel opening needs to be larger. Refer to shift pattern chart on back of this sheet. NO contact of the shift handles with the body/tunnel will be allowed. Contact with any portion of the body sheet metal may cause the transfer case to come out of gear. Make sure that there is enough clearance for body flex during off road use. Normally after the install the opening will need to be made larger. Any body lifts will require this opening to be larger. The higher the body lift, the larger the hole.
6. Depending on the engine/transmission/transfer case combination, the shifter handles may need to be bent. The shifter handles can be heated and bent to the required position. After bending, check that the shifters will work in all gears. NO sheet metal contact permitted.
7. Install the shifter boot and knobs. Recheck shifter operations.



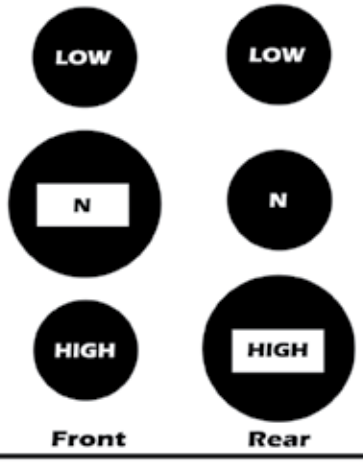


WILD HORSES FOUR WHEEL DRIVE

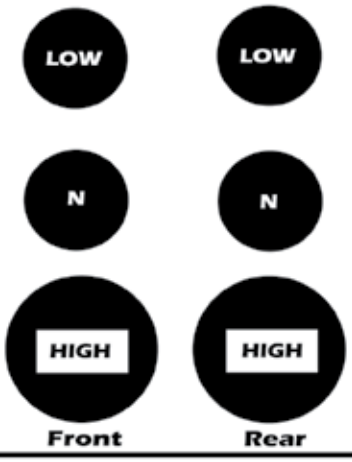
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TWIN STICK SHIFTING CHART

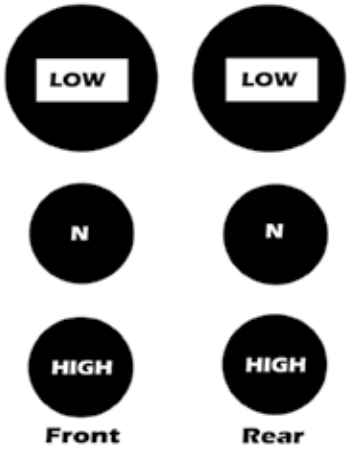
TWO WHEEL DRIVE HIGH



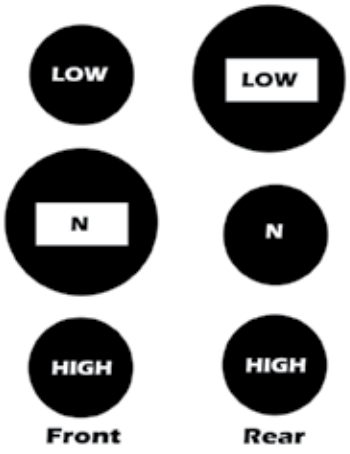
FOUR WHEEL DRIVE HIGH



FOUR WHEEL DRIVE LOW



TWO WHEEL DRIVE LOW



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