

INSTALLATION INSTRUCTIONS:

Twin Stick Shifter for T Pattern Dana 20, 1966-73 Bronco



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PART #2122

CONTENTS:

1	Shifter Assembly	2	Clevis Pins		
1	Cover Plate	10	12- 3/4" Pan Head Screws	1/1	11/06
1	Front Shifter Decal	1	Shift Boot		
1	Rear Shifter Decal	1	Shift Boot Metal Flange		
1	7/16" ID Stainless Sleeve				
2	Cotter Pins				

Note: Locktite recommended, but not included.

Please read completely before beginning.

NOTE: We have found it easiest to start is by cutting an access hole in the transmission tunnel. However, it is possible to install this shifter without cutting the access hole. You will need to remove the front driveline and transfer case cross member and support the transfer case with a floor jack.

CAUTION: Never force the shifters into opposite ranges; one in High, the other in Low. This will cause immediate major damage to the drivetrain.

1. If your vehicle is equipped with a Duff 3 Speed Floor Shifter, place the transmission in first gear to ease installation. Remove the shifter boot.

2. Place transfer case in neutral. NOTE: It is very important to make sure that the vehicle will not roll away once the transfer case is placed in neutral. Loosen the allen setscrew on the T handle of the transfer case shifter and remove the handle and shifter cover attached to the floorboard.

3. Place the new cover plate over the stock shifter handle and hole. Locate the cover plate with the shifter handle centered forward and aft in the opening then using the cover plate as a guide, mark around the edge of the plate with a piece of chalk or pencil.

4. Remove the cover plate. Measure and mark a line 3/4" inside the mark made in step 3. This is your cut line. Cut away any carpet or vinyl liner. The easiest way we've found is to drill a hole in each corner and then use a jigsaw or Sawzall to connect the drilled holes. Cut the floor board using the same technique.

5. Remove the stock rubber boot over the shifting mechanism (it may not be there as many have fallen off already). Remove clevis pins from transfer case shift rails and shifter rail linkage plate. Remove the shifter mounting bolt going through the shifter and the intermediate housing. Remove shifter and linkage. If equipped, remove the shifter locking plate that is bolted to the intermediate housing.

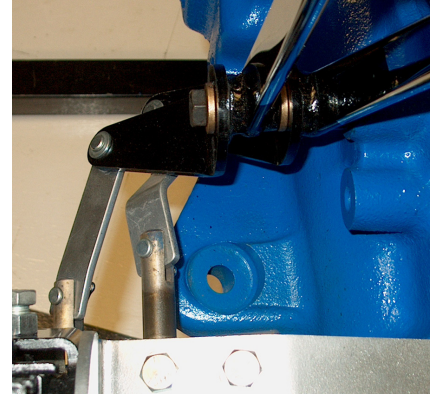
6. Check the inside diameter of the shifter mounting hole located in the intermediate housing. Due to variations, the hole may be either 1/2" or 7/16". This shifter assembly utilizes a 7/16" bolt, if your housing has a 1/2" hole, use the supplied sleeve in the hole.

7. Hold shifter assembly in your left hand, remove Nyloc nut and one 7/16" washer from end of assembly. Hold assembly together and slide end of the 7/16" x 5 1/2" bolt into the intermediate housing. Secure with the 7/16" Nyloc nut and washer, torque only to 10-12 ft. lbs. Do not overtighten, this will crush the bushings and cause binding. If you have disassembled the unit, refer to the diagram for the correct assembly.

8. Attach the right hand shifter linkage to the uppermost transfer case shift rail using the clevis pin and secure with a cotter pin. For the left hand shift lever, connect the shift linkage to the lowermost transfer case shift rail, secure with the same hardware as above.

9. Temporarily install a shift knob on each handle and ensure that each handle moves freely (it may be necessary to rock the vehicle a bit to facilitate gear engagement). Place both shifters into low range by first moving the right hand shifter (rear) to low and then the front (left) and check clearance between shift linkage and intermediate housing. Make any adjustments as necessary.

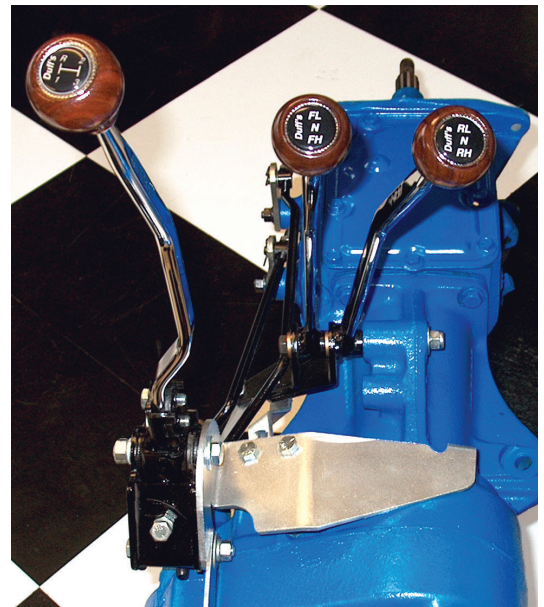
10. Remove the shift knobs. Place the cover plate over the shift handles so that they slide through the cover plate hole. Fix the cover plate in position and mark the screw hole locations for drilling. NOTE: If installing this shifter into a vehicle with a floor shifter and tunnel cover this plate will need trimmed to fit around the tunnel cover.



11. Remove the cover plate and drill a 11/64" hole at each marked location.
12. Reinstall the cover plate and secure with the 3/4" Pan Head Screws.
13. Install the shift boot metal ring inside the shift boot flange.

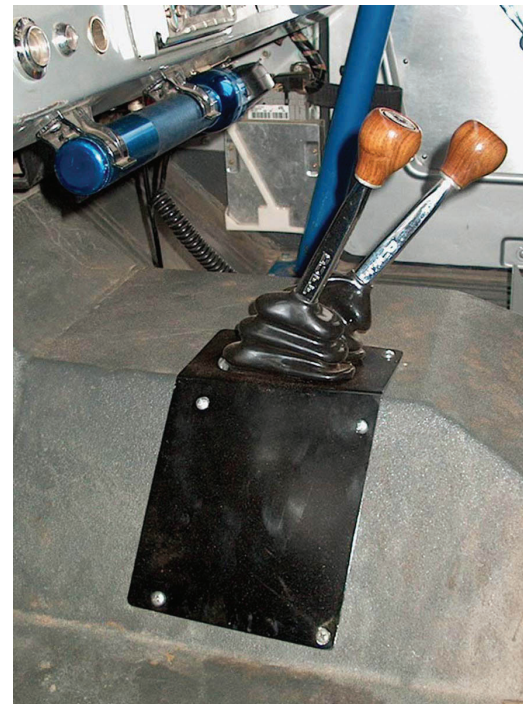
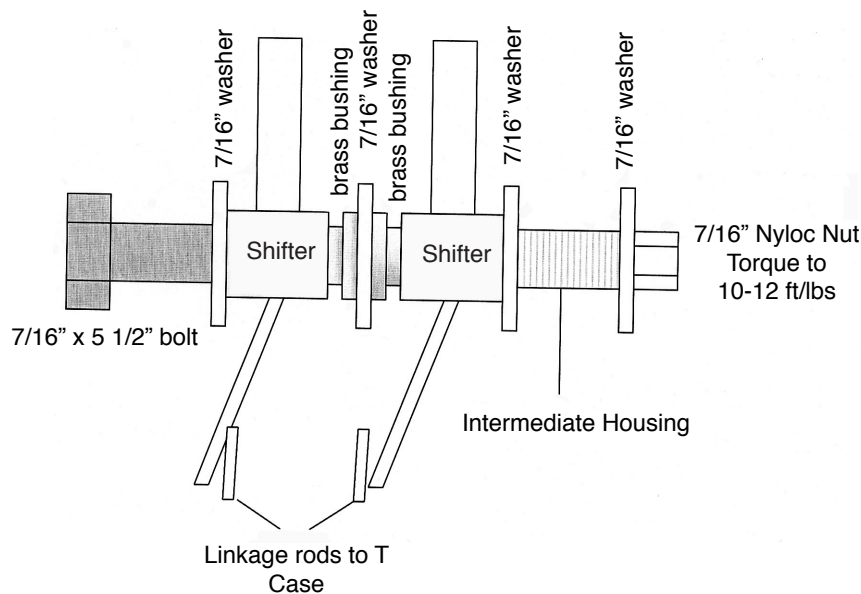
14. Slide the boot over the handles, making sure to align the holes in the boot with the handles. Hold the boot in position and drill 11/64" holes at each of the four corners where the holes in the boot are located. Drill completely through the metal ring and the floor sheet metal. Secure with the 3/4" Pan Head Screws.

15. Place a few drops of Loctite on the threads of the shifter handle. Screw the knob into place. Apply the front shift pattern decal to the left knob and the rear sticker on the right knob. Notice the shift patterns for each individual shifter handle: all the way forward is low range, all the way back is high range and the middle is neutral. For normal two wheel drive high gear, put the rear (right shifter) in high range (all the way rearward) and the front in neutral (middle position).



16. To familiarize yourself with the shifting pattern, we suggest going to loose dirt area, engaging the hubs and moving the shifters into their various positions. **CAUTION: Never force the shifters into opposite ranges (one in High, the other in Low). This will cause immediate major damage to the drivetrain.**

Note: If in the future, the shifters become slightly loose due to wear, retorque the 7/16" Nyloc Nut to 10-12 ft. lbs.



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