

WILD HORSES



FOUR WHEEL DRIVE

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Trail Edition Gear Banger

#8303 Date 7/15/14 rev.1

Parts list: Base plate

- 1 - base plate
- 4 - 3/8" bolts
- 4 - 3/8" washers
- 4 - 3/8" nylock nuts

Parts list: Shift collar

- 1 - collar

Parts list: Linkage

- 1 - linkage (3 piece)
- 2 - 1/2"x 1 1/4" bolt
- 2- 1/2" acorn nut
- 4- 1/2" bushing/washer
- 3- 1/4"x 1" bolt
- 3- 1/4" acorn nut

Parts list: Handle

- 1- shift knob
- 1 - shift handle
- 1- 1/2" jam nut
- 1 - rod end
- 1 - 1/2"x 2 1/2" bolt
- 2 - tapered spacers
- 1- 1/2" acorn nut

Parts list:

- 1 - Loctite/Blue

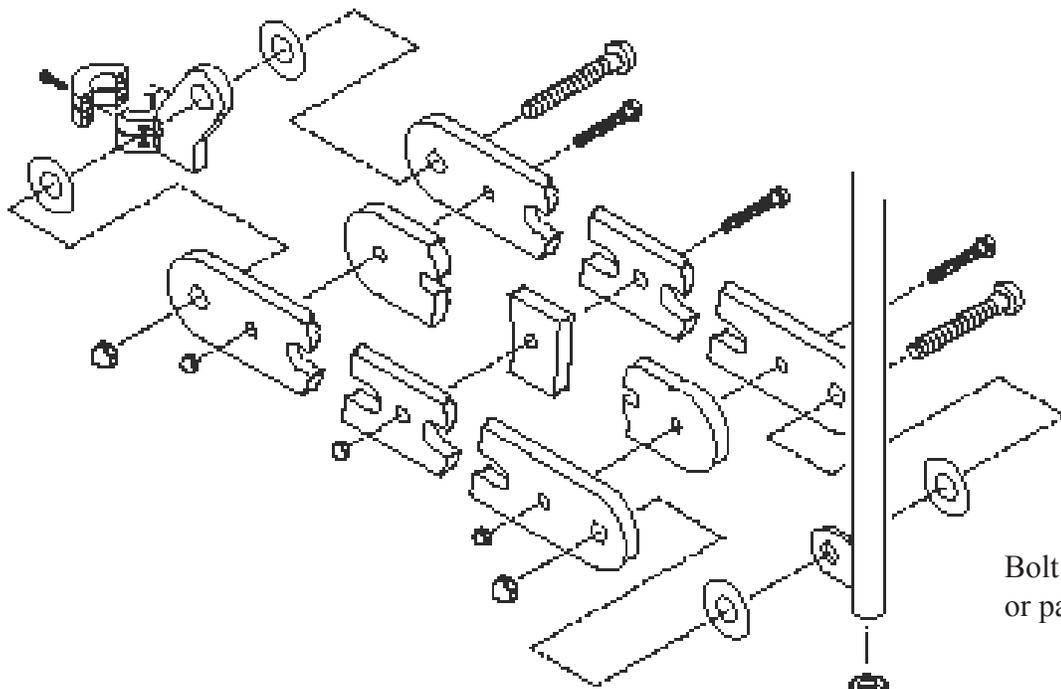
Pre-assemble and install the Trail Edition Gear Banger BEFORE painting, plating or powder coating.

INSTRUCTIONS: Refer to exploded view for how to assemble Gear Banger.

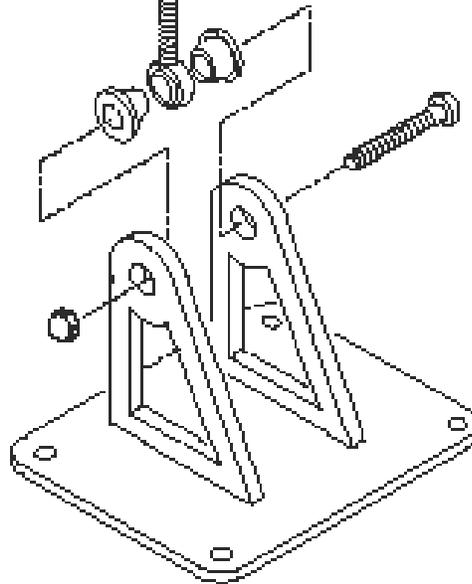
1. Thread 1/2" jam nut into spherical rod end approximately 3/4" of the way down
2. Thread spherical rod end into base of shifter
3. Using 1/2" bolt, bushing and nut, connect the shift handle to the linkage. Linkage is the same on both sides, it is not important which side you use.
4. Using 1/2" bolt, bushing and nut, attach base plate to spherical rod end with spacers on both sides of the rod end.
5. **PUT TRANSMISSION INTO NEUTRAL!!!!** Failure to do so will make re-installation of the shifter difficult.
6. After the transmission is in neutral remove the shifter from the transmission by pressing down on the retainer and twisting counter clockwise. (This is for the NP 435)
7. Examine the stock shifter and observe that the shifter necks down at the base. Using an angle grinder with a cut off wheel, a sawzall or hacksaw. Cut the shifter about 2-3" **ABOVE** the neck down. Leave room to install the shift collar.
8. Install the shifter collar onto the cut down stock shifter. Depending on how the stock shifter was bent you might need to straighten it out first. **DO NOT TIGHTEN THE BOLTS ON THE COLLAR AT THIS TIME.**
9. Reinstall the stock shifter into the transmission. Press down and twist the shifter retainer in a clockwise direction.
10. Using 1/2" bolt, attach the shifter assembly to the shift collar.
11. Maneuver the shifter so that the base plate is in the slanted portion of the transmission tunnel (on the floor of your Bronco). This is the part that can be a little tricky. Ideally the linkage is straight front to back in the neutral position. Check clearance between transfer case shifter(s). You can heat and bend shift handles into the "perfect" position if desired. Shift through all gears and check for any interference. Once you are happy with the position move to step #12. Keep in mind the linkage dose not have to be in the "perfect" position to work. Some have chosen to have the linkage at a slight angle. This will mean the base plate sits toward the passenger side just a little.
12. Mark the 4 holes where the base plate is sitting on the floor and drill the holes to 3/8".
13. Bolt the base plate to the floor. Use the large washers under the floor.
14. Tighten the bolts on the shifter tab firmly (**DO NOT USE LOCTITE YET**)

ADJUSTING THE SHIFTER

1. To make the shifter move more easily, slide the shifter collar higher on the stock shifter. This will make the shifting easier but give you a longer throw.
2. To shorten the throw of your shifter, slide the collar lower on the stock shifter. This will give you a firmer shift.
3. Once the shifter is where you are comfortable, mark the location of the collar on the stock shifter.
4. Now disassemble the whole Gear Banger, paint powder coat or plate and re-install. Use Loctite at this time.
5. Apply shift pattern indicator to top of shifter knob.



Bolt heads can be put facing driver or passenger choice is yours.



SHIFT HANDLE

SHIFT LINKAGE

SHIFT COLLAR

BASE

