



QUALITY... PLAIN & SIMPLE®

GM Bell Crank Kit For Lokar Automatic Transmission Shifter Installation Instructions

For TH350, TH400, 700-R4, and 4L60

General Installation Notes:

Please read instructions completely before beginning installation. If you have any questions please call.

Before starting installation, scotch vehicle tires to avoid accidental movement of the vehicle. Do not attempt to install this product while the engine is running. Disconnect negative battery cable before beginning installation.

Refer to Fig. 1 for the component names.

NOTE: If your transmission has an electronic speedometer output, you will need a special bracket and bolt. Please call Lokar Technical Support for assistance.

Step 1: Remove any and all existing linkage from the transmission.

Step 2: Remove two rod ends from the linkage that originally came with the Lokar shifter. They will be required for this installation.

Step 3: Install the bell crank arm with clevis onto the lower transmission tail housing bolt on the left side of the transmission using the supplied bolt and lock washer. There are two bolts and lock washers included in the kit. One is a metric (M10 x 45) hex head and one is a standard (3/8"-16 x 1-3/4") button head. Use the one that matches the thread on the bolt you removed.
Fig. 2

Step 4: Install the linkage arm into the bell crank arm with clevis, using the 5/16"-24 x 7/8" button head bolt and nylock nut. Tighten the nut, but make sure that the linkage arm still moves freely. **Fig. 3**

Step 5: Install the selector shaft lever (not included, it comes with the Lokar shifter) onto the transmission selector shaft. Rotate the transmission selector shaft clockwise until it is in Park, at approximately the one o'clock position.

Step 6: Position the linkage arm at the same angle as the selector shaft lever. Measure the distance from the center of the 1/4" hole in the selector shaft lever to the center of the 1/4" hole in the linkage arm. Subtract 1-3/4" from your measurement and write it down.

Step 7: Remove the rod end from one of the threaded rods that came with the bell crank kit. Cut the threaded rod to the length you calculated in the previous step and de-burr the end. Make sure two 1/4"-28 jam nuts are on the threaded rod, and install a rod end on both ends of the threaded rod (using one rod end from the Lokar shifter) to create the lower rod assembly.

Step 8: Install the lower rod assembly onto the inside of the selector shaft lever (towards the transmission) using the 1/4"-28 x 1" button head bolt and nylock nut that came with the Lokar shifter. Temporarily connect the opposite end of the lower rod assembly to the outside of the linkage arm (away from transmission) using the supplied 1/4"-28 x 1-1/2" button head bolt, flat washers and nylock nut. **Fig. 4**

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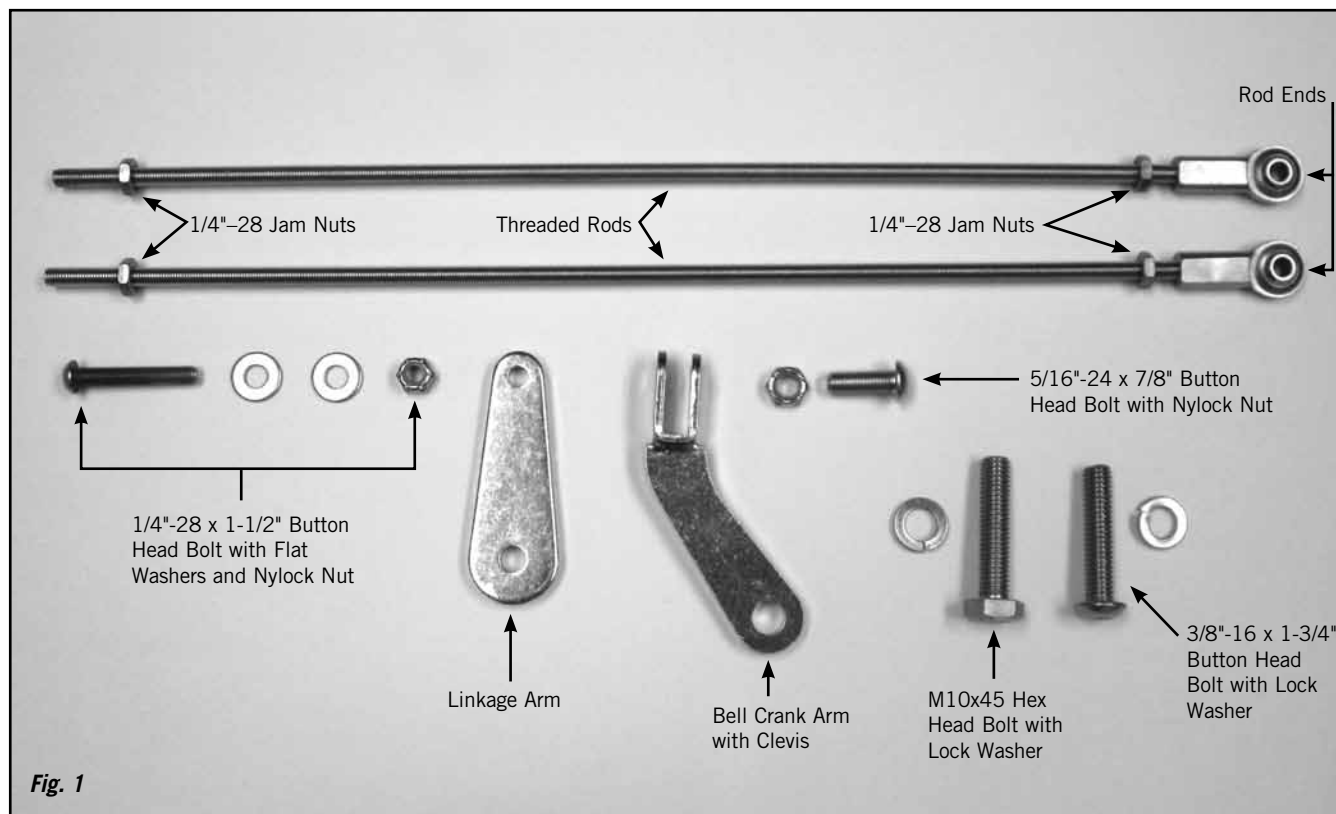
Step 9: Put the shifter in the Park position. Measure the distance from the center of the 1/4" hole in the shifter arm to the center of the bolt you just installed in the linkage arm. Subtract 1-3/4" from your measurement and write it down.

Step 10: Remove the rod end from the other threaded rod that came with the bell crank kit. Cut the threaded rod to the length you calculated in the previous step and de-burr the end. Make sure two jam nuts are on the threaded rod, and install a rod end on both ends of the threaded rod to create the upper rod assembly.

Step 11: Connect the upper rod assembly to the shifter arm using the hardware that came with the Lokar shifter.

Step 12: Disconnect the lower rod assembly from the linkage arm. Install both the upper and lower rod assemblies to the outside of the linkage arm (away from the transmission), with the upper rod assembly between the lower rod assembly and the linkage arm. **Fig. 5**

Step 13: Make sure there isn't any slack in the shifter when it is in the Park position. If there is, lengthen the upper rod to remove the slack. Once you have all the slack adjusted out of the shifter, make sure that the button in the shift knob moves up and down freely. For final shifter adjustments, refer to the Lokar Shifter Installation Instructions.





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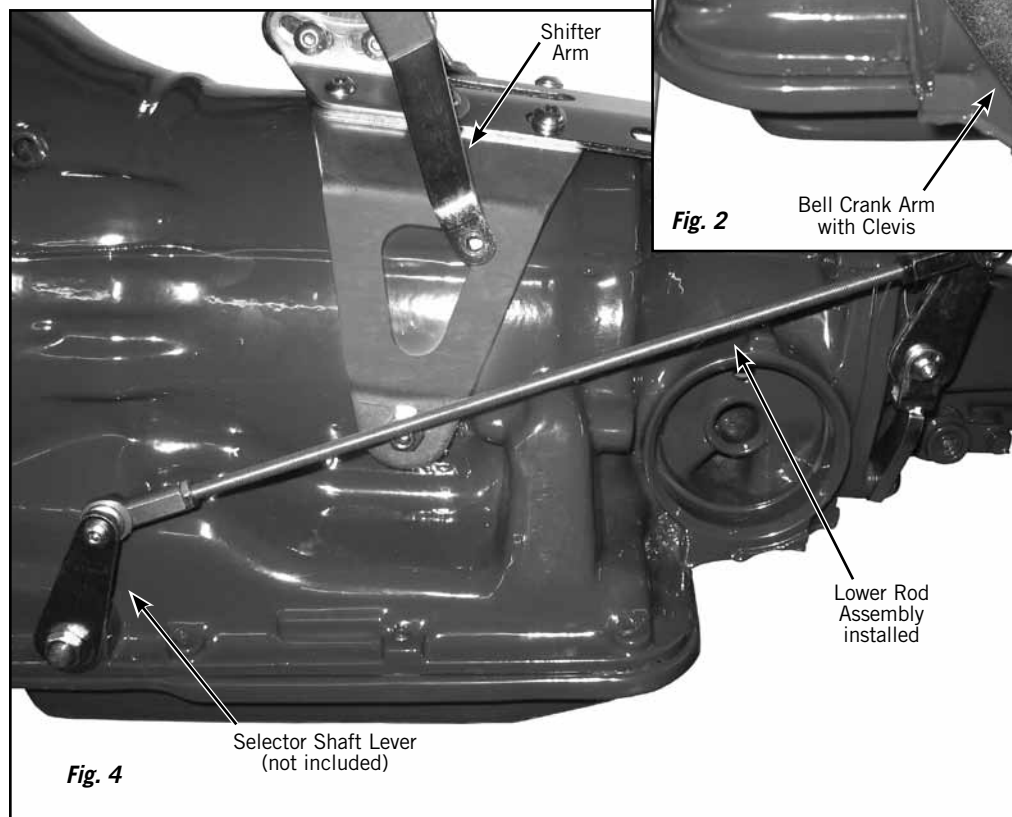


Fig. 4

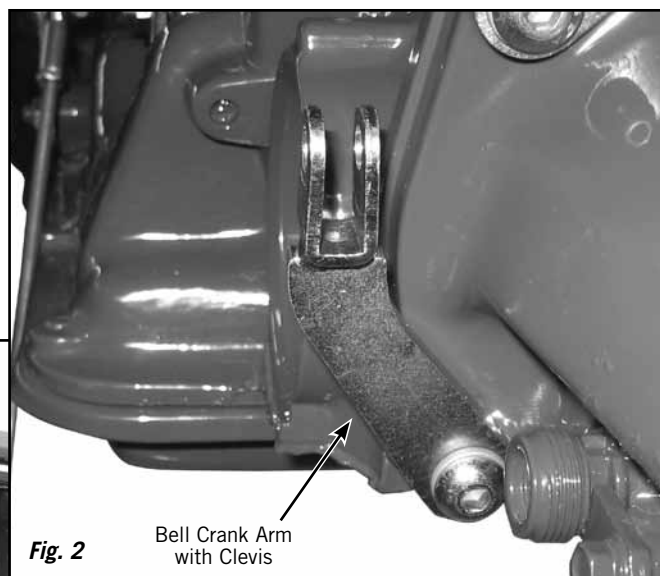


Fig. 2

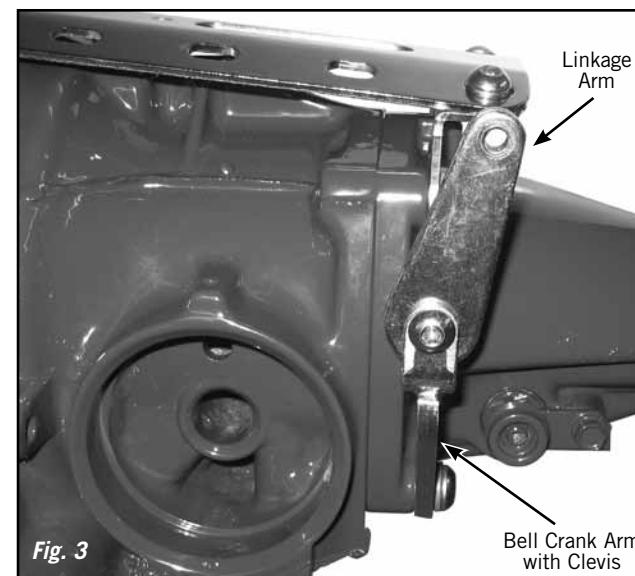


Fig. 3

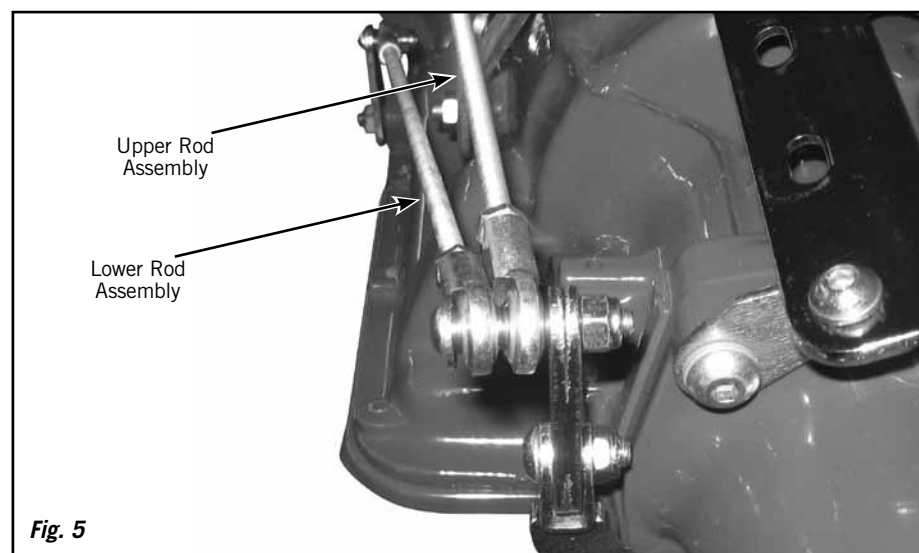


Fig. 5