General Installation Notes:
Please read these instructions completely before beginning the installation. If you have any questions, please call. Before beginning the installation, disconnect the negative battery cable and use wheel chocks to block the vehicle’s wheels. Make sure the engine, transmission, body and frame are properly grounded.

Refer to Fig. 1 for the component names.

Refer to the included “Shifter Mounting Bracket Installation Instructions” and install the mounting brackets before proceeding with these instructions.

Tools and Materials Required:
- Standard Allen wrenches: 1/8", 5/32", 3/16"
- Wrench or Socket Sizes: 7/16", 1/2", 9/16", 7/8", 15/16"
- Tape Measure
- Metal cutting tool, such as a hacksaw or a die grinder with a cut-off wheel
- Drill and 5/32" drill bit
- Ohmmeter
- Wire cutters/strippers
- Wire crimping or soldering tools
- Blue thread locking compound

Lokar Shifters are designed to fit specific transmissions. Before installing the Shifter, verify that you have the proper model for your transmission. If your Shifter does not seem to fit properly, do not make modifications during installation as this may void your warranty. Call for assistance.

Verify that the shifter length you have purchased is what you actually want. When installed, the bottom of the shifter lever will be approximately 3-1/2" - 4" above the bottom of the floor mount mounting bracket. From that point up to the top of the shifter knob is how the shifter length is determined.

Before attempting to make any adjustments, the transmission and the Shifter must both be installed in the vehicle.

The shifter lever is designed to lock in Park and in Neutral. You must depress the release button in the top of the shifter knob in order to shift out of Park or Neutral. The release button will only be flush with the top of the shifter knob when the shifter lever is in Park or Neutral.

To shift from Park directly to Drive, depress the release button and hold it down while moving the shifter lever, and the shifter lever will automatically stop in the Drive position. Once you release the button, the Shifter will allow you to move the lever into 2nd gear. You must depress the button again to shift down into 1st gear.

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**Step 1:** If your vehicle already has a shifter of any type installed, disconnect all shifter linkage and remove the shifter and its related hardware (neutral safety switch, back-up light switch, etc.).

**Step 2:** Determine exactly where you want the Shifter to be located. The Shifter may be mounted either on top of the floor or underneath the floor.

**NOTE:** For vehicles that had a floor shifter previously, determine if the existing hole(s) in the floor will be adequate for mounting and operation of the Lokar Shifter. If not, the floor will need to be modified.

If you are mounting the Shifter on top of the floor, you will need a slot in the floor for the quad arm to pass through. If you are mounting the Shifter underneath the floor, the opening will need to be large enough for the floor mount bracket also.

There are three different quad arms to choose from: straight, 1-1/4" offset or 2-1/2" offset. Choose the quad arm that aligns most closely to the left edge of the transmission pan. It is not necessary that the quad arm be perfectly aligned with the left edge of the transmission pan. The rod ends allow for a certain amount of misalignment.

Be aware that the quad arm you choose will affect the size and location of the slot that will need to be cut in the floor.

**Step 3:** There are two pairs of floor mount tabs in the Shifter Kit. Which pair goes where will depend on if you are mounting the Shifter above or below the floor. See **Fig. 2** to determine how the floor mount tabs need to be positioned for your particular application.

The floor mount tabs on the rear of the Shifter must be installed with the ears pointing towards the rear of the vehicle. If you are using a rectangular Lokar Shifter Boot and Ring mounted directly to the floor, the floor mount tabs on the front of the Shifter must also be installed pointing towards the rear of the vehicle. If you are not using a rectangular Lokar Shifter Boot and Ring, you may install the front floor mount tabs facing either direction.

Attach the floor mount tabs to the floor mount mounting bracket as shown in **Fig. 2** with the 5/16"-24 x 1/2" button head bolts and lock washers. Leave the bolts loose enough so that adjustments can be made later during the installation.

**Step 4:** Make sure the two 5/16"-24 x 3/8" button head bolts that are in the curved, slotted holes in the left side of the floor mount mounting bracket are tight. Place the Shifter in the desired location on the vehicle's floor. Make sure the shifter lever will not interfere with the dash when in Park, or with the seat when in low gear. The shifter assembly may be tilted forward or backward if needed by loosening the two 5/16"-24 x 3/8" button head bolts that are in the curved, slotted holes in the left side of the floor mount mounting bracket. Retighten the button head bolts in the curved, slotted holes once you have the shifter assembly at the angle you want. **Fig. 3**

If you ever disassemble the shifter assembly, be sure that the 5/16"-24 x 3/8" button head bolts and lock washers are put back into the curved, slotted holes in the floor mount mounting bracket. Installing longer bolts will prevent the shifter from operating.

**NOTE:** If you find after installation that the shape or length of the shifter lever is not suitable for your application, Lokar has a number of different styles and lengths of Shifter Lever Replacement Kits available for purchase separately through our dealer network.

**Step 5:** Determine the size and location of any opening(s) that need to be cut in the floor in order to mount the shifter assembly and allow full travel of the quad arm you are going to use. It may be useful to temporarily mount the quad arm to the quad lever and move the shifter lever through its full range of motion, in order to help determine where the cuts need to be made.

Cut those openings now.

**Step 6:** Place the shifter assembly in position on the vehicle. Push the floor mount tabs flush against the floor, and mark the center of the bolt holes in the floor mount tabs onto the floor. Center punch the marks, and drill four 5/16" diameter holes.

**Step 7:** Attach the floor mount tabs to the floor using four 5/16"-24 x 1/2" button head bolts and nylock jam nuts. Once the shifter assembly is mounted to the floor, tighten the floor mount tab to floor mount mounting bracket bolts.

**Step 8:** Make sure the shifter lever is in the Park position. Position the quad arm in place on the quad lever with the bolt holes aligned. Check for interference with the left rear floor mount tab or the vehicle floor. With the shifter lever in Park, you want the quad arm to be as close to the 4:30 – 5:00 position as the floor mount tab will allow, without the quad arm touching the floor mount tab or floor.

If the quad arm is not in the proper position, loosen the set screw in the top of the quad lever with a 1/8" Allen wrench and slide the quad lever off of the shaft. The shifter assembly may have to be removed to do this, depending on how large the opening is in the tunnel. Reposition the quad lever on the shaft as close to 4:30 – 5:00 as the floor mount tab allows, and retighten the set screw. **Fig. 4**

Install the quad arm onto the quad lever using the two 1/4"-28 x 5/8" button head bolts and nylock jam nuts. **Fig. 4**
**Step 9:** Remove the forward-most bolt from the left side of the transmission pan, and the bolt that is the furthest to the left on the front of the transmission pan. Remove the masking tape from the 5/16”-18 x 1-1/4” bolts on the provided linkage arm assembly. Install the linkage arm assembly onto the underside of the front left corner of the transmission pan.  
*Fig. 5*

**Step 10:** Verify that the linkage arm and rod ends are assembled correctly, with the short threaded rod on the outside of the linkage arm, away from the transmission.  
*Fig. 6* If not, rearrange the parts as needed in order to match Fig. 6. The bolt can be installed from either side, but make sure there is a flat washer to the outside of each rod end. Tighten the 5/16”-24 x 7/8” button head bolt and nylock jam nut at the bottom of the linkage arm. Then, loosen the 5/16”-24 nylock jam nut just enough so that the linkage arm can pivot freely.  

Make sure the transmission is in Park. The factory trans arm should be pointed to the left side of the vehicle and slightly towards the rear, at approximately the 4:30 to 5:00 position if looking down on it from above, as shown in Fig. 7. Connect the rod end on the short threaded rod to your factory trans arm, using the provided 1/4”-28 x 1” button head bolt with flat washer and nylock nut. Adjust the rod ends in or out on the short threaded rod as needed in order to get the linkage arm pointed up at approximately the 1:00 position. If any part of the shifter linkage interferes with the kickdown lever or linkage, you can position the linkage arm a little higher.  

*It may be necessary to bend or shorten the short threaded rod in order to get the linkage arm in the correct position.*  

Once you have it adjusted correctly, tighten the jam nuts on the short threaded rod. Then, make sure there are flat washers to the outside of both rod ends on the short threaded rod, and tighten the 1/4”-28 nylock nut at the top of the linkage arm.  
*Fig. 8*

**Step 11:** The long threaded rod will connect the quad arm to the linkage arm. Check to make sure that nothing will interfere with the travel of the long threaded rod.  
*If there is any interference, the long threaded rod can be bent slightly as needed.*  

Verify that both the shifter lever and the transmission are in the Park position. Measure center-to-center between the 1/4” hole in the quad arm on the shifter assembly and the button head bolt in the top of the linkage arm on the transmission. Subtract 1-3/4”.  
*Fig. 9* This is the length you will cut the long threaded rod to. Use a hacksaw or cutoff wheel to shorten the long threaded rod, and then, de-burr the cut end of the rod.

**Step 12:** Verify that both 1/4”-28 jam nuts are on the long threaded rod. Thread one end of the long threaded rod into the rod end on the linkage arm, and install a rod end onto the opposite end of the long threaded rod. Attach that rod end to the outside of the quad arm using the 1/4”-28 x 1” button head bolt, flat washers, and nylock nuts as shown in Fig. 10. The 1/4”-28 x 1” button head bolt can be installed from either direction, but make sure the rod end is sandwiched between the flat washer and the quad arm.
**NOTE:** The Bolts can be installed from either side, but make sure the Rod Ends are sandwiched between the Flat Washers.
Step 13: Check the adjustment of the shifter linkage by placing the shifter lever all the way forward into the Park position. Make sure that the release button still moves up and down freely. The release button should be flush with the shifter knob in Park and Neutral. In the Reverse position, you cannot pull the shifter lever back into Neutral without depressing the release button.

While the shifter lever is in the Park position, make sure the transmission is firmly in the Park detent, with no tension on the long threaded rod. You can verify this by removing the 1/4"-28 x 1" button head bolt with nylock nut that attaches the rod end to the quad arm. Make sure the hole in the rod end exactly aligns with the hole in the quad arm. The bolt should pass freely through both holes at the same time without binding. Do not force the holes to line up.

If the holes are not aligned, screw the rod end in or out just enough to be able to slide the bolt in and out without putting tension on the long threaded rod. Make sure that the quad arm and linkage arm do not move during the adjustment procedure. Use this adjustment routine until the bolt will pass freely in and out of both the rod end and the quad arm. Reinstall the 1/4"-28 nylock nut and the flat washer onto the bolt and tighten.

Once you have the shifter linkage adjusted correctly, tighten the jam nuts on the long threaded rod.

See Fig. 10 for a completed installation.

Step 14: For the neutral safety switch to function properly, the shifter linkage must be adjusted correctly. Do not attempt to adjust the neutral safety switch unless you have completed Step 13.

The Lokar neutral safety switch is a simple on/off, non-directional switch. The switch passes current (turns on) when the ball is pushed in. It does not pass current (turns off) when the ball is out at its at-rest position.

Double check to make sure that the bolts in the curved, slotted holes on the left side of the floor mount mounting bracket are tight.

Step 15: Remove the neutral safety switch and washer (Fig. 12) from the right side of the shifter using a 7/8” wrench or socket.

Step 16: Loosen, but do not remove, the two 5/16”-24 x 3/8” button head bolts that attach the right side of the floor mount mounting bracket to the switch plate (the bolts are in curved, slotted holes). Fig. 12

WARNING: Before taking the shifter out of Park, be sure that the vehicle’s tires are blocked and the parking brake is set to avoid movement of the vehicle.

Step 17: Put the shifter into the Reverse position. Reposition the switch plate so that the hole in the switch plate lines up with the center groove in the shifter body. Fig. 13 Screw the provided aluminum adjuster plug into the neutral safety switch opening. Wiggling the switch plate slightly forward and back while you are screwing the aluminum adjuster plug in will help get the shifter body centered on the adjuster plug. Fig. 14

Step 18: Retighten the two 5/16”-24 x 3/8” button head bolts that attach the right side of the floor mount mounting bracket to the switch plate.

Step 19: Remove the aluminum adjuster plug, and reinstall the neutral safety switch and washer onto the shifter. Test for continuity by connecting an ohmmeter lead to each stud on the neutral safety switch. When adjusted correctly, you will only have continuity between the two switch studs when the shifter is in Park or Neutral. Continuity in any other gear requires readjustment of the neutral safety switch or the shifter.
Step 20: Connect the neutral safety switch between your ignition switch and starter circuits. Check the wiring of your fuse panel:

- If there are (2) connections for a neutral safety switch, run a #12 (or heavier) stranded wire from these terminals in your fuse panel to the (2) terminals on the neutral safety switch. That completes the Neutral Safety Switch wiring.

- If your fuse panel does not have neutral safety switch connections, locate the wire going from the ignition switch to the starter. If GM color codes are used, this wire will usually be purple. After locating the wire, disconnect it from the starter. It must be cut and routed from the ignition switch to one of the neutral safety switch terminals, and from the other neutral safety switch terminal to the same stud on the starter where the original wire was removed. If the wire must be lengthened, be sure to use wire that is at least the same size or larger than the original.

Step 21: Reconnect the negative battery cable and check operation. Make sure that the engine will not start in reverse or a drive gear. If it does, follow the neutral safety switch adjustment procedure again. If your car should ever start in any gear other than Park or Neutral, please readjust the neutral safety switch accordingly. Tighten all brackets and bolts correctly and securely and there should be no movement or maladjustment. If you have any questions after following this procedure, please call Lokar Technical Support.

Step 22: Once the installation is completely finished and the neutral safety switch is adjusted, remove each of the 5/16"-24 x 3/8" button head bolts and lock washers from the curved, slotted holes in the floor mount mounting bracket one at a time, apply blue thread locking compound to the threads, and reinstall.

For Shifters manufactured 1994 and earlier, please contact Lokar for assistance.

To Remove the Shifter Knob:
Step 1: Make sure the shifter lever is all the way forward in the Park position.
Step 2: Loosen the jam nut below the shifter knob (turn the nut CLOCKWISE to loosen it). DO NOT loosen or remove the set screw that is in the knob. Fig. 15
Step 3: Turn the shifter knob counter-clockwise to remove.

To Install the Shifter Knob:
Step 1: Make sure the jam nut is still in place on the shifter lever.
Step 2: Screw the shifter knob onto the shifter lever until the release button comes up flush with the top of the shifter knob.
Step 3: Tighten the jam nut up against the bottom of the shifter knob.
Step 4: Check to make sure that depressing the release button allows the shifter lever to be moved, and that the shifter lever still locks in Park and Neutral. If the shifter lever will not come out of Park with the release button fully depressed, tighten the knob one turn and check it again. If the shifter lever does not lock in Park, loosen the knob one turn and check it again.