



Shifteck short shifter f3x f8x

1. WARNINGS

- A. This is an aftermarket part, not designed by the manufacturer of your car. It is designed for off-road use only.
- B. Installation is recommended to be completed by a professional mechanic
- C. Do not install while the vehicle is on the ground or supported by a jack. Use sufficiently sturdy jack stands on a level surface, or an automotive lift.

2. COOL DOWN

Make sure your car is cool. The best is to let it sit overnight, but waiting 3-4 hours after driving should be sufficient to allow it to cool down.

A. Prep Inside the car

- i. Release the shift boot from around the center console by popping the clips in with your fingers.
- ii. Remove the shift knob by pulling straight up, hard. Most people find that strattling the center console and yanking up works best.
- iii. Remove the shifter, leather boot, all padding, insulation, and rubber boots underneath.

B. Prep Outside the car

- i. Remove the plastic underbody covers from the vehicle
- ii. Remove the entire exhaust after the Catalytic Converter (you can leave the downpipe in place)

3. OLD SHIFTER REMOVAL

A. Outside the car

- i. Look above the drive shaft to find where the bottom of the shifter protrudes
- ii. On one side of the shifter will be an arm and the other side will have a clip
- iii. Using needle nose pliers and a thin flathead screwdriver, pop the clip off

- iv. Remove the selector arm from the hole at the bottom of the shifter

B. Inside the car

- i. You will notice that the shifter arm sits inside of a metal cup that is bolted to the car. There is a plastic washer inside (between the shifter arm and the cup) that holds the shifter in.
- ii. Use needle nose pliers or c-clip pliers to push out on the slots and rotate the washer.
- iii. Once the washer is rotated, the shifter will lift out from the top. **TAKE NOTE OF THE DIRECTION OF THE BEND WHEN YOU REMOVE.**

C. Back outside the car

- i. The cup that the shifter arm was seated in is part of a larger assembly that needs to be removed.
- ii. Towards the front of the car on the shifter assembly, use a small flathead screwdriver to pry the clip until it is loose. Then rotate it down to clear the interference and remove. Repeat on the other side.
- iii. Towards the back of the car on the shifter assembly, there are 2 10mm nuts holding the rear shifter support bracket. Remove the 2 nuts and the bracket. (note, we have seen some cars use a 13mm nut here instead)
- iv. **Use a transmission jack underneath the transmission to support it before completing the next step.**
- v. Remove the 4 bolts (2 on each side of the transmission tunnel) that support the transmission cross brace. Lower the transmission enough to remove the shifter assembly.

4. NEW SHIFTER INSTALLATION

A. Outside the car

- i. Install new plastic spacer into the shifter assembly cup. Beveled side facing up.
- ii. Install metal collar into the cup on top of the spacer
- iii. Install the 6 bolts into the collar through the slots in the shifter assembly cup. (Recommended to put a drop of **BLUE** Loctite on the bolts). Start with the 2 middle bolts and move outwards. Make sure the metal collar is centered in the shifter assembly cup. **DO NOT OVERTIGHTEN BOLTS**
- iv. Re-Install the shifter assembly back into the car from underneath. We have included new clips that were used in step C ii. Use the new clips.
- v. Re-Install the rear shifter support bracket and its 2 nuts
- vi. Jack transmission back up and re-install the 4 bolts holding the transmission cross brace

B. Inside the car

- i. Prepare the shifter to go back into the shifter assembly cup. The correct direction is the same direction that the old one came out.
- ii. Set the shifter into the shifter assembly cup with the parts in the following order
 - 1. *Pivot ball*
 - 2. *Plastic washer*
 - 3. *Spring*
 - 4. *Spring cap*
 - 5. *C-clip*
- iii. Ensure that all components are in the shifter assembly cup and then using c-clip pliers, secure the shifter in. Give the shifter a good pull up to ensure the c-clip is seated properly.

C. Outside the car

- i. Place the bearing guides in both sides of the bottom hole in the shifter
- ii. Re-install shift rod into the bottom hole of the shifter and secure with clip

D. Inside the car

- i. Re-install all gaskets, carpet, and boots in reverse order of dis-assembly
- ii. Run shifter through all the gears to ensure that there is no binding
- iii. ENJOY!