



# 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!