



## **FRONT BUMPER INSTALLATION INSTRUCTIONS** **2007-2014 TOYOTA FJ CRUISER**

### **Please read before beginning**

- *Stainless steel hardware may bind together when tightening—it is recommended that you apply an anti-seize assembly lubricant to the threads of each bolt before assembly*
- *This installation requires two people*

### **Required tools**

- Metric and standard wrench sets
- Cutting tool (Tin snips, shears etc)
- Flat head screwdriver



### **Included hardware**

### **Quantity**

• 70060 - 1/4-20 x 1" Button head cap screw	2
• 70008 - 1/4-20 Nuts with nylon locking insert	2
• 70009 - 1/4 x 5/8 Washer (.03" Thick)	2
• 70039 - 1/4 x 7/8" Fender Washer	2
• 350203 - Steel bracket, driver side	1
• 350204 - Steel bracket, passenger side	1
• 70092 - M12-1.25 hex bolt	2
• 70106 - 1/2" ID split washer	2
• 70035 - 1/2" ID washer	2
• 70107 - 3/8-16 x 1 1/4" Steel bolt	8
• 70105 - 3/8-16 Nuts with nylon locking insert	8
• 70026 - 3/8 ID x 7/8 OD washer	16
• 70115 - M8-40 Pan Head Socket Bolt SS	2
• 400511 - Fairlead Cover	1
• 400503.4 - Keys, Tool Box Lock Set	1 set
• 70027- Thick 3/8" Washer	2
• 350157 – Delrin Spacer	2
• 350157 – Filed Delrin Spacer	2

### **Assembly instructions**

1. To remove the stock bumper, begin by removing all the plastic clips from the sides and bottom of bumper (see figure 1)--To remove the clips, pry up on the inner ring with a flat head screwdriver until it pops up, then remove the clip by hand.



**Figure 1: Plastic retaining clip, shown in closed (left) and open (right) positions**

2. Remove any screws holding the bumper on in the wheel well or underneath
3. Now the stock bumper may be pulled free from the car—you may have to pull hard, but take care to make sure you are not damaging the bumper, and if much resistance is encountered stop and inspect to make sure there are no retaining clips still on the bumper
4. Now remove the metal beam in front of the vehicle, held on by 8 nuts (see figure 2) – **NOTE: Keep these nuts, you will be using them to install your new Aluminess bumper**



**Figure 2: Metal beam mounting nuts**

5. Open the hood and remove the center cross member and bracket, indicated in figure 3 below with an arrow



***Figure 3: Center cross member***

6. Remove plastic side pieces seen below in figure 4 by removing the two screws and then pulling the plastic pieces off of the vehicle, taking care not to damage the plastic pieces



***Figure 4: Plastic side piece***





7. The air conditioning refrigerant tube may have to be re-formed in order to provide enough room for a winch mounted inside the bumper; it is recommended to do so by one of the following two methods, but take care so as to not over-bend, kink, or otherwise damage the refrigerant tube; To re-form the tube, place a wooden block behind the bottom of the tube in the position indicated by the arrow in figure 5 below and very carefully push the tube toward the radiator
8. You may wish to hold the Aluminess bumper in place at this point to make sure nothing interferes



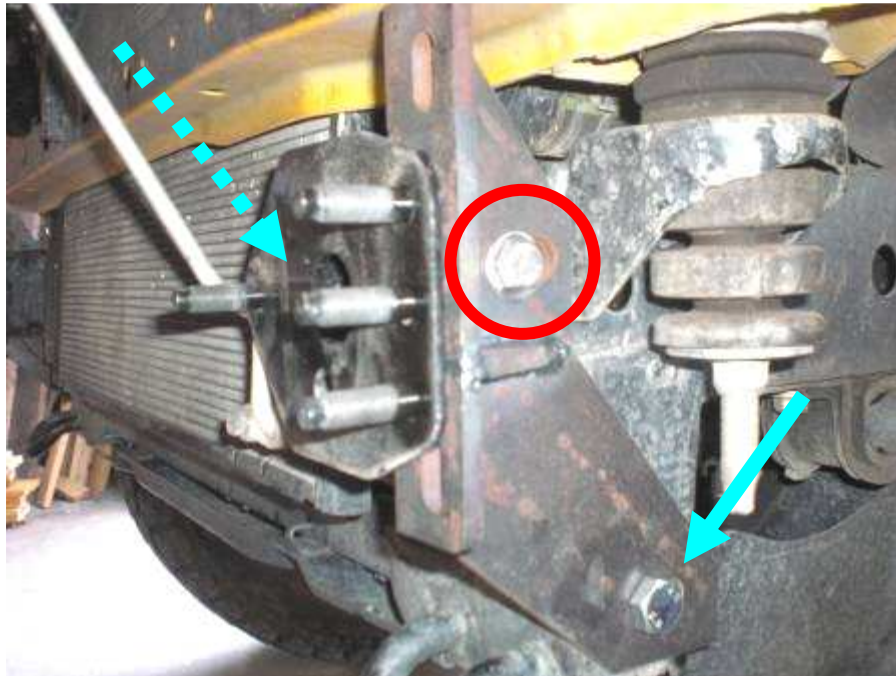
**Figure 5: Air conditioning refrigerant tube**

9. Use the supplied 1/4" hardware to re-bolt the fender flares to the body using the hole indicated by the circle in figure 6



**Figure 6: Fender flare attachment**

10. Install the provided steel brackets to the side of the frame using the supplied M12 bolts in the lower hole indicated by the arrow in figure 7, but do not tighten the bolts down fully yet
11. Using the 3/8" drill bit, drill out the hole in the frame indicated by the circle in figure 7 in order to provide clearance for the supplied 3/8" bolt
12. Place a washer on one of the supplied 3/8" bolts and stick it through the hole in the front of the frame indicated by the dashed arrow in figure 7, then carefully turn it and stick it through the hole in the frame which was drilled out in step 11
13. After inserting a washer, thread a nut on the bolt and tighten down loosely
14. Make sure the steel bracket is positioned as far forward as possible, then insert the supplied 3/8" bolts through the top and bottom of the mounting bracket. Be sure to place the Plastic Delrin pieces in between the mounting brackets and bumper.
  - a. NOTE: the 2 Delrin Spacers that have been filed down, go on the bottom.
15. Making sure the bumper is centered, tighten down the hardware on the mounting brackets



**Figure 7: Steel bracket installed on car**

16. If you are planning on installing a winch, bolt the winch into the bumper before installing the bumper on the car—you will not be able to afterwards
17. With someone holding the bumper in place, install and tighten the 8 nuts that were removed earlier—do not tighten down fully
18. Check to make sure the bumper is level—if adjustments are needed, push on or lightly tap the bumper to move it
19. You may wish to trim the stock plastic fender liners or completely remove them so that they are not visible from the front or sides of the car—to trim them, simply mark a line and cut them with snips or shears so they resemble the trimmed fender liners shown in figures 8 and 9
20. Use the supplied 3/8" bolts, washers, and nuts to fasten the bumper to the steel brackets



*Figure 8: Trimmed fender liner rear view*



*Figure 9: Trimmed fender liner front view*