



INSTALLATION INSTRUCTIONS

Item Description
Vehicle

3 piece Rear Bumper
2007-2014 Toyota FJ Cruiser

DEMELLO-OFFROAD

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Kit contents	
1 – Center rear bumper	8-3/8in washers
2 – Left and right rear ends	2-M8 bolts
2- left and right Z shaped mounting brackets	4-3/8inAllen head bolts
10-M12x1” bolts	2-5/16in washers
10-1/2in washers	
8-3/8in x 1 1/4” bolts	

Tools recommended for installation	
3/8” ratchet	2-11MM, 2-14mm open end wrenches
7/32 allen key	Flat head screw driver
10mm, 11mm, 12mm, 17mm, 19mm, sockets	Pliers
Painters tape	Box knife (or tool that cuts plastic)

Bolt torque settings	
6 – front frame assembly bolts 48 lb-ft	

Hitch parts list	
1-non rated hitch	6-1/2in washers
6-m12 2in bolts	



Bumper shown with optional hitch





OEM bumper removal procedure

Installation notes:

Please read instructions completely before beginning installation. During the installation of the Demello Offroad high clearance FJ Cruiser bumper you will be required to perform the following tasks. If you are not comfortable performing these tasks we suggest you seek the help of a professional installation shop.

- Cutting of the OEM plastic bumper
- Bending of a metal bracket on the rear cargo area
- Electrical wiring (optional with backup lights)

	<p>1.) Use a 10mm socket to remove all the bolts from the top and bottom of the OEM bumper</p>
	<p>2.) Using a flat head screw driver remove the plastic push pop rivet on right side.</p>
	<p>3.) Using fingers pull outer plastic bumper cover away from the side of the vehicle. There are snap along the top and one snap rivet in the middle. A reasonable amount of force is required to get the plastic to release.</p>



4.) Stand behind your vehicle and pull the bumper rearward while supporting the plastic bumper. The entire bumper unit will slide off the vehicle. Be careful not to bump the doors while you pull the bumper off.

Note: If bumper has reverse sensor, disconnect before fully removing bumper from vehicle. Set the bumper down on the ground. You may want to place something protective like a towel or drop cloth on the ground to prevent scratching of the bumper plastic



5.) Remove the Styrofoam support and discard.



6.) Use a 17mm socket to remove the 6 bolts in the factory tow hitch mount and remove the tow hitch. (Optional step can be skipped if no hitch)



7.) Remove the backup sensors from the OEM bumper by carefully sliding the retainer clip off the back of the sensor. Be careful with the clips as they can break easily. Slide the sensor out of the OEM bumper and set aside the sensor and clip as they will be used in a later step. Remove both sensors.



8.) Remove the rear plastic bumper wings by removing the 5 white plastic retainer clips from the back side of the bumper. A flat head screw may be helpful in removing the clips.



9.) Turn the OEM bumper over and pull the plastic bumper wings off the bumper.



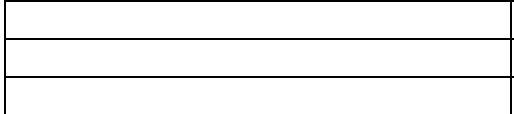
10.) Use a 10mm socket to remove the 4 brackets from underneath the rear cargo area. Remove the brackets and rubber gasket and discard.



11.) Use a 12mm socket to remove the outmost bumper brackets from the rear cargo opening. There are two brackets one located on each side. Remove and discard.



12.) Use a pair of pliers to bend the center bracket downward as seen in the picture below.



Cutting the OEM rear bumper to fit:

In this portion of the installation you be required to cut portions of the plastic bumper. We recommend applying blue painters tape to your OEM bumper to protect it from **scratching**. Please use caution and wear appropriate safety wear when handling cutting tools.



1.) Cut the outer piece of the bumper as depicted in the pictures on the next page. Note the silver line in the pictures below. These are the approximate location of where you need to trim the rear plastic bumper. A box knife or similar tool can be used to trim the bumper.

Rear view:



Bottom view:

Installation of backup sensors:

Back up sensors where applicable. You will remove the factory sensors from the bumper and simply reinstall them in your new DO rear bumper using the same factory clips to secure them in place



Factory back up sensor.



Installation of the rear bumper:



1.) Using 2 M12 two for each side of the frame start threading by hand the rear bump mounting brackets on each side of the under the frame.



Note the 12mm bolts with 1/2in washers holding the bracket in place.



4.) Align the 4 bolts holes in the rear of the bumper with the 4 bolts holes in the frame



Install 4 of the m12 bolts and 1/2 washers into the rear of the bumper. Install 2 more of the m12 bolts and 1/2 washers into the threads on the bottom of the frame.



The allen bolts will need to be inserted into each side lining up with the bracket below them. The supplied 3/8in nuts and washers need to be put on the bottom side (not shown)



(not shown) using the M8 bolt with a lock washer and a 5/16 washer hand thread the bolts on 4 slotted tabs on the bottom of the frame. There is no need to drill or cut the stock cross member.(NOTE) bumpers bottom looks different now but bolt holes still line up the same.



Note: Tighten the bolts slowly and tighten them evenly. Use tightening pattern similar to when tightening wheel lug nuts. Tighten one side a little and then move to the other side. This will help align the bumper on the rear of the vehicle. (shown with optional hitch)



Now that your center section is mounted, it's time to install your side pieces. You will need 4 of the 3/8in bolts, washers and nuts to bolt the end pieces to the center section. Start by first finger tightening them. Once they are all in place, snug up one, leaving it loose enough so that you can adjust the end piece. Once it's where you want it, tighten it down.



Repeat the same for the opposite side. Tighten all the bolts for both sides. This is a good time to check all the bolts in the bumper to make sure you tightened everything down.



You are now ready to hit the trails.
(shown with optional hitch)

Professional installation required by a competent mechanic. User accepts all responsibility for proper installation and maintenance of item, Demello Off-Road only warranties said item for manufacturing defects.
Product is for Off-road use only.

Thank you for your business.

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