



JK MOD FRONT BUMPER

INSTALLATION INSTRUCTIONS

JK 07-18

P/N JK001, JK002, JK003, JK004, JK005 & JK006

MADE IN SWEDEN

Notes on the Installation

General Installation Information

Off-roading is a hands-on hobby, and this product is designed for user installation. However, if you feel unsure please remember that safety is crucial when working with motor vehicles, whether on-road or off-road.

We cannot take responsible for any damage caused by incorrect installation so please don't hesitate to reach out if you have any questions. We're available to provide support and you will find contact information on our webpage.

Please take a few minutes to familiarize yourself with the instructions and to prepare for the installation by going through the parts before beginning. If the installation feels too challenging, we provide an installation service. Please see our webpage for contact information.

www.falkenfabrication.com

What's in the Box

Your new Falken Fabrication Bumper will come with a number of pieces depending on the options you have chosen, the associated hardware is listed below:

- Bumper Center Piece
 - 2x Flag Nuts
 - 4x M12x25mm Hex Head
 - 10x M12x35mm Allen Head Bolts
 - 9x M12 Nuts
 - 2x M12 Acorn Nuts
 - 2x M12 Locking Washer
 - 16x M12 Washers
 - 1x M12x80mm Hex Head Bolt
- Vacuum Pump relocation for 2012-18 models
 - 2x M6x16mm Hex Head Bolts
 - 2x M6x35mm Hex Head Bolts
 - 4x M6 Locking Nut
 - 6x M6 Washers
 - 1x Rubber Tube
- End Caps
 - Fog Light version comes with:
 - 8x M4x15mm Allen Head Bolts
 - 8x M4 Locking Washers
 - 8x M4 Washers
- Skid Plate
 - 3x M12x35mm Hex Head/Allen Head Bolts
 - 3x M12 Nuts
 - 6x M12 Washers
 - 3x M12x25mm Allen Head Bolts
- Bumper Hoop
 - 2x M12x25mm Allen Head Bolts
 - 2x M10x25mm Hex Head Bolts
 - 2x M10 Locking Nuts
 - 4x M10 Washers

Care and Use

Your new bumper is essentially maintenance free apart from the usual car wash. The bumper features a three layer powder coat finish which is durable, However, if there is damage exposing the base metal it's important to touch up those places as quickly as possible since the rust eventually will start to creep under the paint.

Installation Instructions

Step 1: Remove the stock bumper

1. Start by removing the stock bumper. Guides are available online and we will add our own instructions when given the chance. (Pic 1)



Step 2: Removing vacuum pump bracket (only 2012-18 3.6l models)

1. In order to fit the bumper center piece the Vacuum Pump needs to be relocated. Start by removing the two 10mm screws and setting the pump aside. (Pic 2)



2. It is helpful to disconnect the electrical connector, thin rubber hose and plastic hose connector. The latter can sometimes be stubborn and if so can be left in place. There are also a couple of Christmas tree fasteners for the cables which are to be removed with a small pry bar or simply be cut off.
3. The bracket itself can be cut off with a grinder or reciprocating saw. Once cut off, touch up the bare metal with paint to prevent rust. (Pic 3)



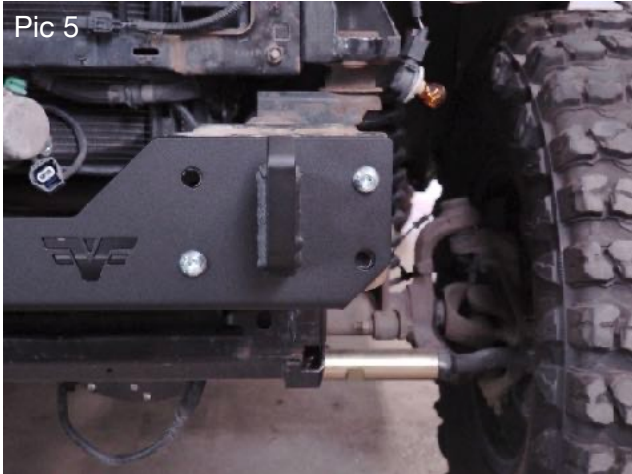
Step 3: Enlarging mounting holes

1. There are three holes on the bumper mounting holes which need to be drilled out with a 13mm drill. These are the passenger side upper outer and lower inner as well as driver side upper outer. Once drilled, touch up with paint. (Pic 4)



Step 4: Installing Bumper Center Piece

1. Install Bumper Center Piece by inserting two M12x35mm Allen Head Bolts on each side into the front horns and attaching with Washer and Nut from the inside. Please make sure to only turn the nut as turning the bolt itself might damage the paint. Finger tighten till snug. (Pic 5)



2. Then install the two provided Flag Nuts and four M12x35mm Hexbolts with Washers on the inner side of the frame. (Pic 6) piece using nut tabs and two bolts on each side from the front. Finger tighten till snug.



Step 5: Clearencing front bumper mounts (Only Stubby and Super Stubby End Caps)

1. Using the Center Piece as a guide mark a cutline on the front bumper mounting points. (Pic 7)
2. Remove Center Piece and cut along the lines. Touch up the exposed metal with paint.
3. Reinstall Center Piece with Flag Nuts only.



Step 6: Installing End Caps

1. (Fog Light End Cap only) Prior to installing the End Caps on the Center Piece install the Fog Lights with the provided hardware. Some models of fog lights might have to be trimmed slightly.
2. Remove front mounting bolts if present and install the end cap by carefully guiding them over the shackle tabs. (Pic 8) If no Hoop will be installed you can install all four bolts at this stage. If Hoop will be installed only fasten the two lower bolts. Repeat on the other side.



Step 7: Installing Hoop

1. Place the Hoop so that the upper horn mounting points align with the ones on the Hoop. Tighten all horn and nut tab bolts tight with tool.
2. Mark the rearward mounting point with a pen. Remove the Hoop. Center punch, pilot drill with a 3mm drill, follow up with an 8mm drill and drill to size with a 13mm drill. Make sure to touch up the exposed metal with paint. Reinstall the Hoop with the provided M12x25mm Allen Bolt, Washer and Nut in the rear.

Step 8: Tightening Hardware

1. Make sure that all hardware is snug and that the bumper sits flat on the frame horns. Tighten the eight front bolts to 114Nm. Please ensure to only turn the nuts on the inside while holding the bolts still so as not to damage the paint. Then tighten the four nut tab bolts to 81Nm.

Step 9: Vacuum Pump Installation (only 2012-18 3.6l models)



1. Attach the bracket to the rear of the bumper center piece using two M6x25mm Hex Bolts, Washers on each side and Locking Nuts. Install tight. (Pic 9)
2. The thick tube which attaches to the pump will need to be pushed some way up into the engine bay for everything to fit. There are two Christmas tree clips in the bay holding it in place which need to be cut off. The easiest way to get to these is through the wheel arch.
3. For some Jeeps it can also be helpful to release the two clips holding the transmission cooler line. There is one on each side of the frame.
4. Install the vacuum pump onto the bracket and fasten with two M6x35mm Hex Bolts, Washer and Locking Nut. Install tight.
5. Reattach any connectors that have been loosened.
6. If the pump body is anywhere close to the transmission cooler line the provided rubber tube will need to be installed to protect it.

Step 10: Winch Installation

1. Test fit the winch of your choice to see how much clearance there is for the Fairlead mounting hardware. If there isn't enough space between the winch and front of the bumper center piece we have provided a low profile M12x35 Allen Bolt to be inserted from the inside and an Acorn Bolt, Locking Washer and Washer to be used on the outside of the Fairlead. Depending on your application the bolt might need to be shortened. Be sure to install the Fairlead prior to the winch should you choose to use the provided hardware.

Step 11: Skid Plate

1. Install the Skid Plate by holding it up against the bumper. Thread a M12x25 Allen Head Bolt with a Washer into the middle Skid Plate weld nut and tighten snug. (Pic 10)



1. Move under the vehicle and install the two M12x35mm Allen Head Bolts with four washers and two Nuts in corresponding mounting points. On some vehicles the holes might not line up so new ones will need to be drilled.
2. Install the remaining two upper M12x25 Allen Head Bolts with Washers.
3. Torque all bolts to 81Nm.

Step 12: Horn

1. An M12x80mm Hex Bolt including two Washers and Nut is provided to mount the Horn behind the bumper through the frame. The stock horn bracket might need to be slightly bent in order to fit the horn neatly.

Step 13: Finishing up

1. Have a look through all the bolts to see that everything is installed correctly and tight. Tuck away and zip tie any loose cables.

Step 14: Celebrations!!

1. Congrats, your new bumper is installed and ready for the trail. Break out a beverage and sit down to admire your work. We'll see you further out in the woods and thank you for supporting Falken Fabrication!

