

Skid installation instructions 999-1b-HD Full Set

Tools need for installation:

3/8 drive ratchet with extension

3/8 drive sockets 12mm and 13mm

13mm wrench

3/8 drive T-40 Torx bit

6mm Allen wrench

Metric tap 8mmx1.25

Tap handle

Anti seize

Step one: Remove both of the stock tin skid plates. There are two of these, the front one with the vent, and the engine one, which has the hole for the oil drain. Remove both plates using your 12mm socket.

If you are installing the full set you can also remove the plastic fuel tank skid and ground strap for the tank at this time as well.

Step two: Using your 8mmx1.25 tap chase out all of the frame threads. Be careful to start the tap straight and use a cutting or multi-purpose oil on the tap.

NOTE: We highly recommend using anti seize on all bolts.



Step three: After chasing the frame threads you are ready to install your Ricochet HD skid. Put the skid into position on the truck. You may find your bottle jack may be of some assistance. You will put a 5/16 washer and lock washer on all of the bolts except the two rear bolts. With the skid into position start one of the long bolts in the center mounts. Do not tighten at this time. Start the front bolt diagonal from the first bolt you installed. The front bolts are shortest of the bolts. Do not tighten at this time. Put the rest of the bolts in. If you are installing the rest of the set leave the two rear bolts out and the HD skid loose for now. If you are not installing the rest of the set take the two remaining bolts, and lock washers and the cup washers and start both bolts. Square up the plate and tighten all bolts.

Step four: Remove both catalytic converter protector tubes



The protector tube is marked with the arrow. This picture also shows the rock blocks and how everything will be re assembled. You will re use the factory bolts on the opposite end of the rock blocks.

Step five: Chase all mounting holes for the converter tubes with your 8x1.25mm tap.

NOTE: The cross member comes unpainted. We suggest cleaning it with lacquer thinner, priming and painting before installation.

Step six: Installation of the supporting cross member. On the passenger side you will remove the exhaust hangar bolts. Leave the hangar in place as it will be bolted on with the cross member.



Step seven: On the driver side you will remove the securing bolt for the brake line union.



Step eight: Chase all frame threads with your tap in preparation to mount the cross member

Step nine: Slide the cross member into position. Using your 6mm allen wrench bolt the cross member in with the socket head cap screws. Bolt the exhaust hanger and union fitting into position with the cross member. Start all bolts but leave loose for now.

NOTE: When installing the cross member it is easier to bring it into position by bringing it up and then sliding it forward. Due to the taper of the frame it is not easy to just bring it straight up into position.

Step ten: Take your transmission skid and slide it under the rear of the HD skid. The rear mount of the HD skid is shared by the front mounts of the transmission skid. Take the two bolts, lock washers, and cup washers and start both bolts leaving things loose for now.

Step eleven: Put the transfer case skid into position. The front of the transfer case skid will go under the rear of the transmission skid. On the rear of the transfer case skid start the bolt in the cross member on the passenger side. This hole is tapped in the cross member and does not use a nut.



Step twelve: Install the cat protector tubes. The rock blocks and countersunk bolts fit in between the flanges of the protector tube. Align all skids and get all of the bolts for the protector tubes started. Leaving loose for now.



Step thirteen: Square up the cross member you installed earlier and tighten. You must do this before mounting the fuel tank skid, or you will not be able to get to the bolts.

Step fourteen: Place the fuel tank into position and align all of the tank studs and start the nuts. Leave all loose for now.

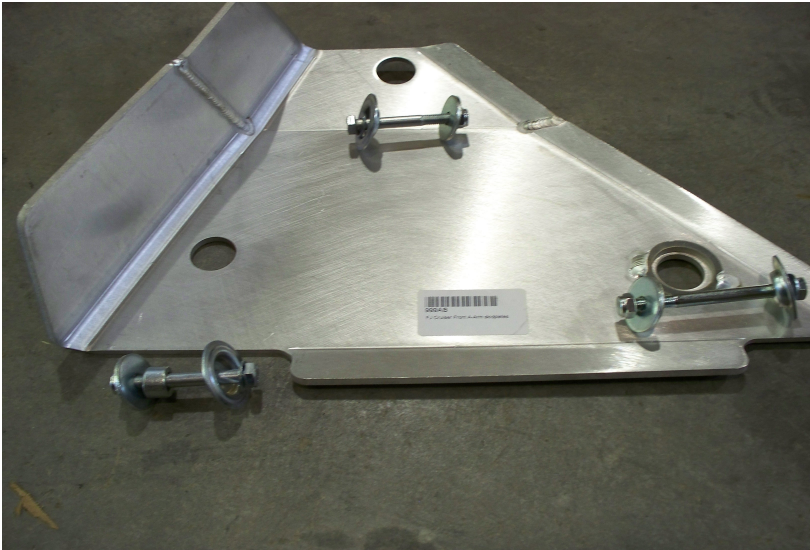
NOTE: On some occasions it may be necessary to adjust the tank straps so the studs line up with the holes. It may also be easier to install using your bottle jack to support the skid.

Step fifteen. Install all of the nuts and bolts for the fuel tank and transfer case skid through the cross member.



Square up and tighten all plates starting with the HD skid ,working your way back.

Step sixteen: LCA skid. This photo shows the placement of the hardware. The shortest bolt sits in the outer hole .



There are already existing holes in the a arm. There is no drilling required.

Take one of the LCA skids and put it into position. Take one of the long bolts and cup washers and install in the back inboard hole. This is the one with the weld on ring. Place the HD washer on top, start the nut and leave loose for now. Take the short bolt and repeat for the outer hole. Finish off with the front inboard hole. This bolt will also use the plated steel spacer. Insert this assembly, place an HD washer on top and start the nut. Square the plate up and tighten all bolts. Repeat for the other side.

Congratulations on you skid install and we thank you for your purchase!