

Extended Roof Rails for a Discovery 1.

Ron LeFevre 2/2006



As some of you may know, the Discovery 2 has the option of extending the factory roof rails all the way to the back. I wanted to do this on my Series 1. Okay here is the warning, Discovery Series 2 has an extra bracket in the back to give more strength to the roof, and the Discovery Series 1 does not. This idea is not a replacement for a roof rack!!! Roof rack are for heavy, large ideas, this is for light items and added protection from trees that scratches the roof offroad. If nothing else this will make your Rover look different than everyone else.

This is not a simple bolt on modification, there is cutting holes in the roof of your Rover, drilling and tapping. You will be cutting the used set of factory rails to match the contour of the back of the front rails, [see picture](#). Be careful, measure twice-cut once!!!!

1. Remove the inside rear body panels.
2. Layout where to cut the rails to match contour of front, see picture.



3. Cut front off of old rails to match contour.
4. With front of the rail cut off, use rail to layout where the hole needs to be drilled in the roof. Tape the area to be cut to protect the paint around the hole. Drill the hole, (check inside to make sure there are no wiring in the way inside)
5. Once the hole is drilled, lay the rail in place. Now the bracket that connects the two needs to be made, [see picture](#).



6. Once the bracket is made, a hole needs to be drilled and tapped in the cast Aluminum roof rail end and the rail, [see picture](#).



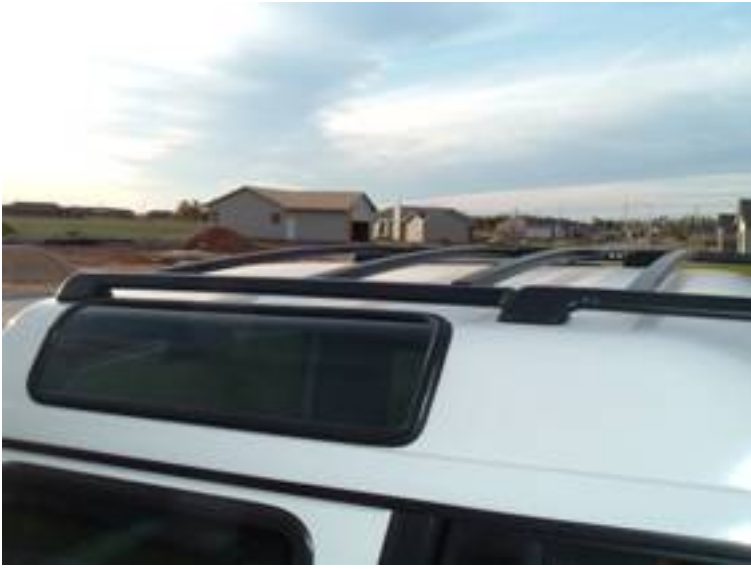
7. The rail will connect to the front section with 3 bolts per side, one in the casting on the front rail and two into the side of the rail.
8. Clean and paint all bare metal.
9. Once dry, use black silicone around the rear hole in roof and install the rail. Tight bolts. You will need to use washers on the inside, so have an assortment on hand.



10. Now use more black silicone to fill gap between front and new rear rail, see picture.



11. Now do the other side. Measure the distance between the front rails and make sure the rear rails are that far apart, so that the crossbars fit correctly.



Supplies needed -

An extra set of factory roof rails and cross bars.

Black gasket silicone.

Metal strip material, 2 piece of $\frac{3}{4}$ " x 4"

6 - $\frac{5}{16}$ x 1" bolts

Misc. washers

Tools needed -

1-1/4 hole saw.

Hack saw.

Drill & bits

Tap, $\frac{5}{16}$ pitch.

Wrenches

Primer paint