

IRON ROCK OFF ROAD

XJ Transfer Case/Belly Skid

1-877-919-JEEP www.ironrockoffroad.com

XJ 84-01 Jeep Cherokee

Parts Checklist:

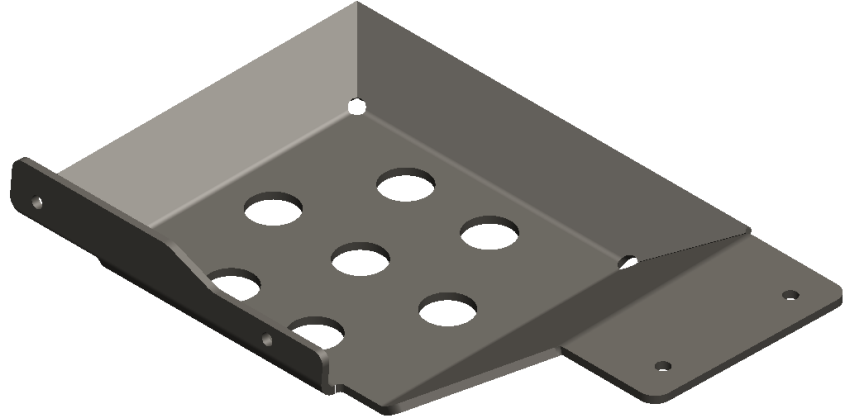
- Instructions
- Iron Rock Off Road Decal (1)
- XJ Belly Skid - 97039 (1)
- XJ T-case drop spacer 90165 (1)

#173 – 3/8" Rivet Nut Install Tool (1)

- 7/16" serrated flange hex nut - (1)
- 3/8" MIL spec flat washer - (2)
- 3/8"-16 x 1-1/4" hex bolt, gr8 - (1)

177 – XJ T-Case/Belly Skid Hardware (1)

- 3/8"-16 x 1-1/4" hex bolt, gr8 (4)
- 3/8-16 x 2 1/2" hex bolt gr8 (2)
- 3/8" SAE flat washer (4)
- 3/8"-16 riv-nut (2)
- 3/8"-16 serrated flange nuts (2)



Before you begin:

- **This skid plate is designed to work with the Iron Rock Off Road XJ Front Long Arm system****
- ***Ensure that all parts are present and in good condition using above shipping checklist.*****
- Read and understand all installation instructions.
- Tools required:
 - 9/16" Socket (shallow preferred, 1/4" and 3/8" drive)
 - 1/4" and 3/8" Drive Ratchets
 - Power Drill
 - Torque wrench capable of 25-30 ft-lb (1/4" or 3/8" drive)
 - 3/8" drill bit (for sub frame mounting)
 - 17/32" drill bit (for installation of rivet-nuts)
 - Hydraulic Floor Jack (highly recommended, for holding skid in place during install)
 - Large C-Clamp, capable of at least 5.5" spread (highly recommended)
 - Permanent marker (silver recommended)

Installation Instructions:

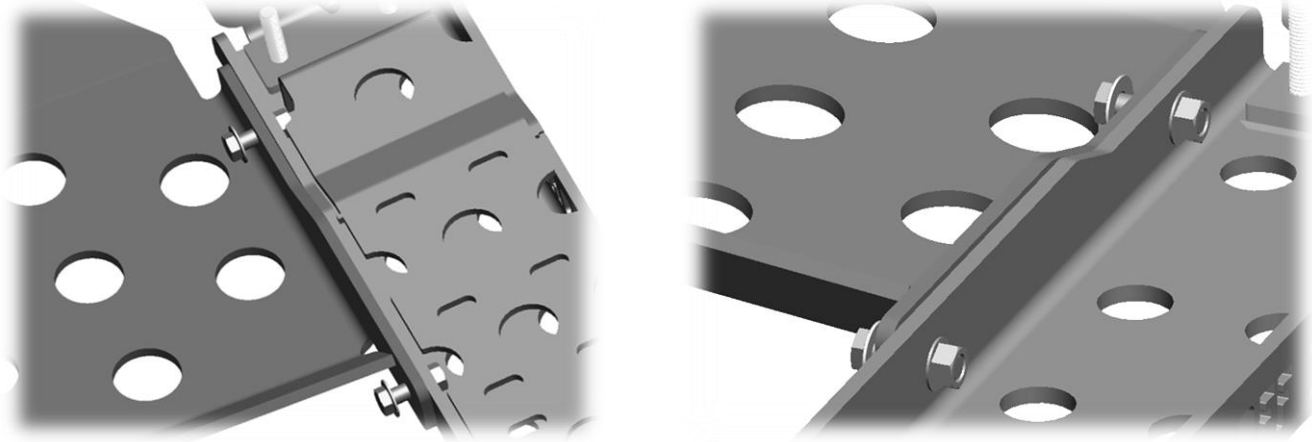
Safety Warning: *Important! Read before installation.*****

We recommend that this system be installed by a qualified professional. Knowledge of suspension component function is necessary for safe installation and post installation inspections. Be sure to re-torque all suspension components and lug nuts after the first 100 miles of use, and frequently inspect all safety critical suspension components.

1. Clean the mating surfaces of the long arm subframe, and the uniframe. Doing so will significantly improve the ability to make marks for drilling later.
2. Place skid plate in position.
 - To aid in holding the skid plate in position, a floor jack may be used in conjunction with a large block of wood as shown.
 - Position the large c-clamp such that the skid plate is held tightly against the long arm cross member



2. Due to the location of the fastening hardware, location of the skid plate on the crossmember is critical. Position the skid plate such that the mounting holes (to be drilled) on the back side of the crossmember, are halfway between the top and the bottom of the back face. Once drilled, the serrated nuts will be inserted through holes in the crossmember as shown.



3. Mark the locations of the skid plate mounting holes using a permanent marker. Silver is recommended.



4. Remove the skid plate from the installed position. Release the c-clamp and floor jack slowly, one at a time, while supporting the skid by hand.
5. Using a power drill and a 3/8" drill bit, proceed to drill out the two recently marked holes.
6. From hardware kit #177 ;gather (2) 3/8"-16 x 1-1/4" hex bolts, (2) 3/8" SAE flat washers, and (2) 3/8"-16 serrated flange nuts.
7. Place the skid plate back in the installed position. Install the fastening hardware as illustrated previously. Tighten down hardware until it is snug.

*****Helpful hint:** "Fish" the serrated nuts through the subframe access holes, and hold in place by hand. Insert the 3/8" hex bolts with washers installed, through the skid plate and subframe install holes. One at a time, slowly rotate each bolt to begin threading the two together by hand (this is the tricky part). Continue threading until the hardware is finger tight.***

8. Using a floor jack, lightly raise the skid plate until contact is made with the uniframe mounting surface.
9. Mark holes on the uniframe for riv-nut installation location.

*****Helpful hint:** To mark holes more accurately than a sharpie, use a power drill and 3/8" drill bit. Doing so will ensure accurate location, as well as provide a centered starting point for drilling out the riv-nut installation holes.***

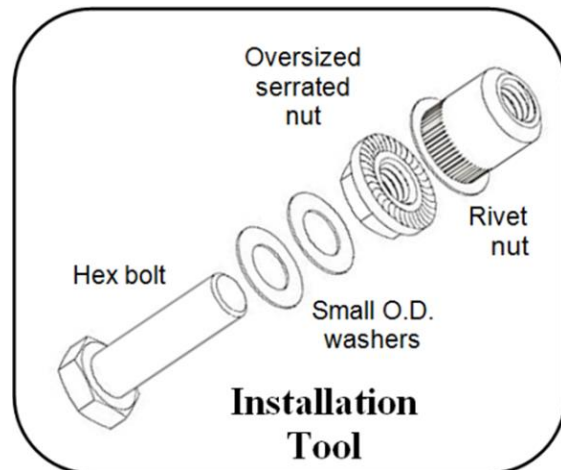


10. Upon completion of marking the drill locations on the uniframe, remove the skid plate.
11. Using a power drill and a 17/32" drill bit, drill out the two recently marked holes.

Rivet Nut Installation:

--The use of a rivet nut allows insertion of threads into thin surfaces such as the uniframe. Similar to a traditional rivet; a rivet nut is held in place by purposely crushing itself throughout a specific section of its body during installation.--

1. Gather hardware kit #173.
2. Slide the two small O.D. washers and the oversized nut onto the bolt, as shown in the diagram.
3. Thread the rivet nut on the end of the bolt as illustrated.
4. Insert the assembly into one of the recently drilled holes on the uniframe.
5. Using a wrench to hold the nut, push inward (along the axial direction of the hole) to prevent the rivet nut from spinning.
6. Tighten the bolt until the rivet nut fully collapses and locks into the hole. Be careful to not strip the threads.
7. Remove the bolt and check to make sure the riv-nut insert does not spin when the bolt is tightened.



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13. Place the skid plate in the installed position.
 14. Reinstall subframe mounting hardware, tighten fasteners hand tight.
 15. Install the remaining (two) 3/8"-16 x 1-1/4" hex bolts, with one washer each, into the newly created riv-nut mounting locations
 16. Tighten all hardware to 25-30 lb-ft.

It is recommended that fasteners be retorqued after every 4-wheeling trip, and/or every 3000 miles if the vehicle is street driven.

