



USER INSTRUCTIONS

HD CLEVIS STEERING UPGRADE

for

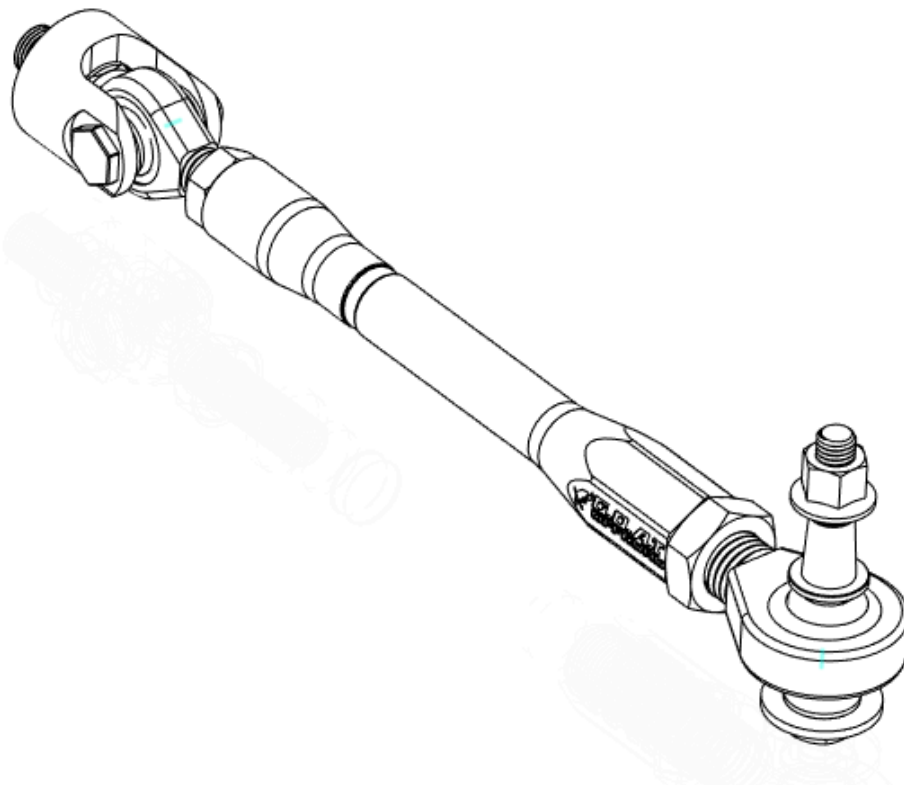
2022 – Current Next Gen Ranger Raptor

2018 – 2022 PX3 Ranger Raptor

2012 – 2022 PX1/PX2/PX3 Ford Ranger

2012 – 2021 UP/UR BT50

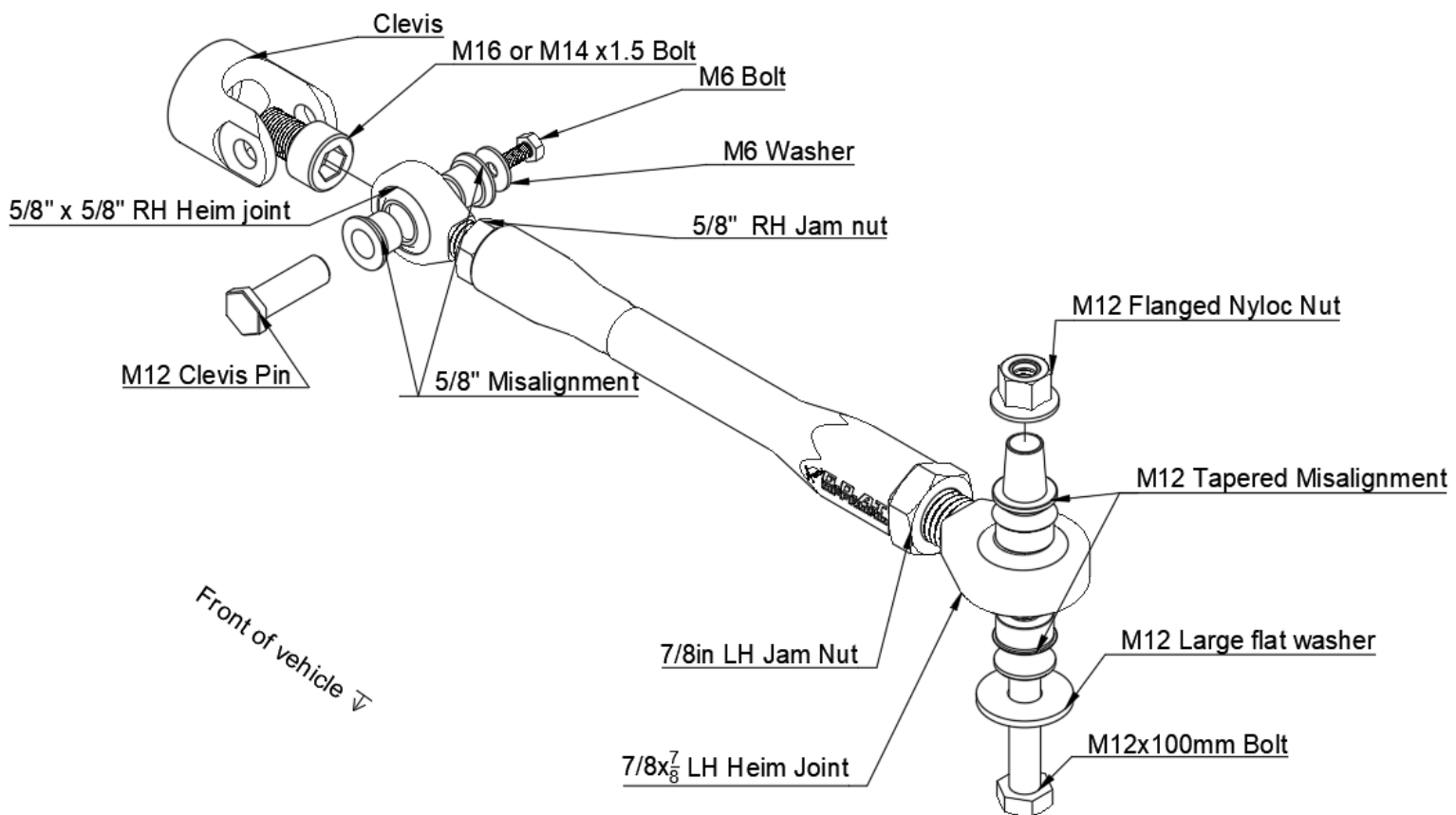
2015 – 2022 EVEREST



WHATS IN THE BOX

- 2x 7075 alloy steering arms
- 2x 17-4 SS Clevis
- 2x 5/8" Heim Joints with locknuts
- 4x 17-4 SS Mis-Alignment spacers
- 2x M6x10mm Bolts
- 2x M12 Clevis pins
- 2x M12 Washers
- 2x M16 or M14 bolts
- 2x 7/8" Heim joints with lock nuts (Full kit only)
- 2x 17-4 SS Tapered inserts (Full kit only)
- 2x M12 x 100mm bolts (Full kit only)
- 2x M12 Large flat washer (Full kit only)
- 2x M12 Flange Nuts (Full kit only)
- 2x Universal rubber rack boots (preinstalled)
- 4x Cable ties

Assembly Diagram (passenger)



NOTES:

- Professional installation is HIGHLY recommended. G.O.A.T Offroad accepts no liability arising from installation by unqualified persons.
- This product is a heavy duty, offroad use only part. It is designed to remove the weak points from the factory steering system, which means there is no "fuse" in the system if you overstress your steering. Installation is at your own risk.
- You must get a wheel alignment after installing this kit.
- DO NOT DRIVE THE VEHICLE FOR 24HRS TO ALLOW THE LOCTITE TO SET

Step 0

HIGHLY RECOMMENDED FOR A SMOOTHER INSTALL

Take the M12 clevis pins and put them in the freezer for a few hours, to make installation easier. The cold will shrink them slightly.

Step 1

Jack front of the vehicle and rest on jack stands. Remove the front wheels from the vehicle. Turn the steering wheel all the way to the passenger side

Step 2

Starting on the passenger side, undo the nut on the current tie rod end from the knuckle. Press out tie rod end of the knuckle with the appropriate ball joint tool.

Step 3

Cut the tie holding the rack boot to the steering rack. Now take a measuring tape and measure from the end of the rack end to the centre of the tie rod bolt. This will be used to set the new steering arms to approximately the same length to ensure a safe drive to the wheel alignment shop.

Now, using the appropriate tool, remove the rack end from the rack.

Step 4

Get the "Clevis" piece and either the M16 or M14 x 30 bolt and washer. Apply blue Loctite to the bolt. Bolt the clevis to the steering rack piece. This needs to be tightened to 100nm whilst also holding the clevis in the vertical position. A second hand will help.



Step 5

Get a M12 Clevis Pin, a M16 X 10mm Bolt, M6 Washer, 2x 5/8in Misalignments and the 5/8" Heim.

Put the misalignment spacers in either side of the heim. Then Take the M12 clevis pin, push the clevis pin from the front through the clevis and the heim. This will be tight and may take some persuasion. We find using a G clamp to press it in is the most efficient. Check the diagram for the correct orientation. Then take the M6 bolt and M6 washer and tighten them to 10nm. This bolt has no load on it and is simply there to keep the clevis pin in the clevis.



Step 6

Get the 5/8" heim lock nut and thread it onto the heim shaft. Slide the rack boot down the alloy shaft towards to big end as far as you can, then thread the alloy steering arm onto the heim. It needs to be roughly about 20mm of thread showing on the heim.

Step 7

Take the 7/8" heim, 7/8 locknut, M12 tapered misalignment pieces, M12 x 100mm bolt, M12 flange nyloc nut and m12 flat washer and assemble as per the diagram. Then thread the 7/8 heim into the alloy extension, noting this is the left-hand thread. Using the tape measure and your previous measurement of the factory steering arms, adjust the alloy extension to match. You want to ensure that there is roughly equal threads showing on each heim so may take some playing around.

Step 8

Now fit the the tapered piece into your knuckle with the appropriate hardware and tighten the nut to factory specs.

Step 9

Repeat the above steps on the drivers side. Leaving the rack end of the rack boots unattached so wheel alignment can be completed.

Call your local wheel expert and book your wheel alignment in for the next day. Let them know that you have this steering setup and to allow a bit more time for the alignment.

WAIT 24hrs FOR LOCTITE TO DRY BEFORE DRIVING!

Step 10

After picking up the car from the wheel alignment, you need to fit the rack boots to the rack flange. Cable tie to secure. Also, cable tie the small end to the alloy steering arm.

Step 11

After 200kms driving, double check all bolts are tight.

We hope you enjoy the benefits of this great Australian-designed and made product!

Need help?

If you have any issues, questions or get stuck with the install, please email us at info@goatoffroad.com.au