

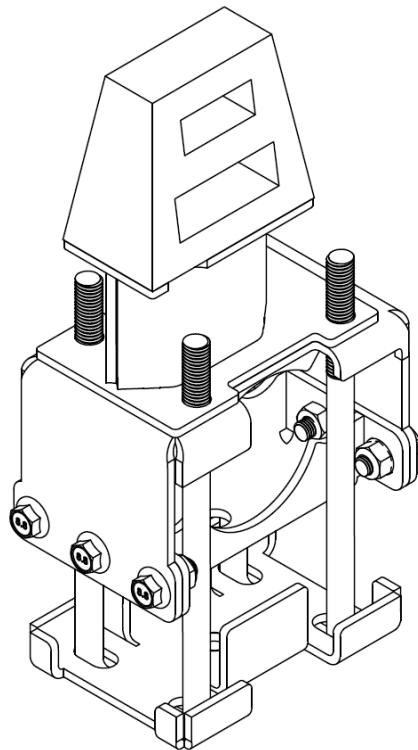


USER INSTRUCTIONS

STAGE 1 REAR SUSPENSION

for

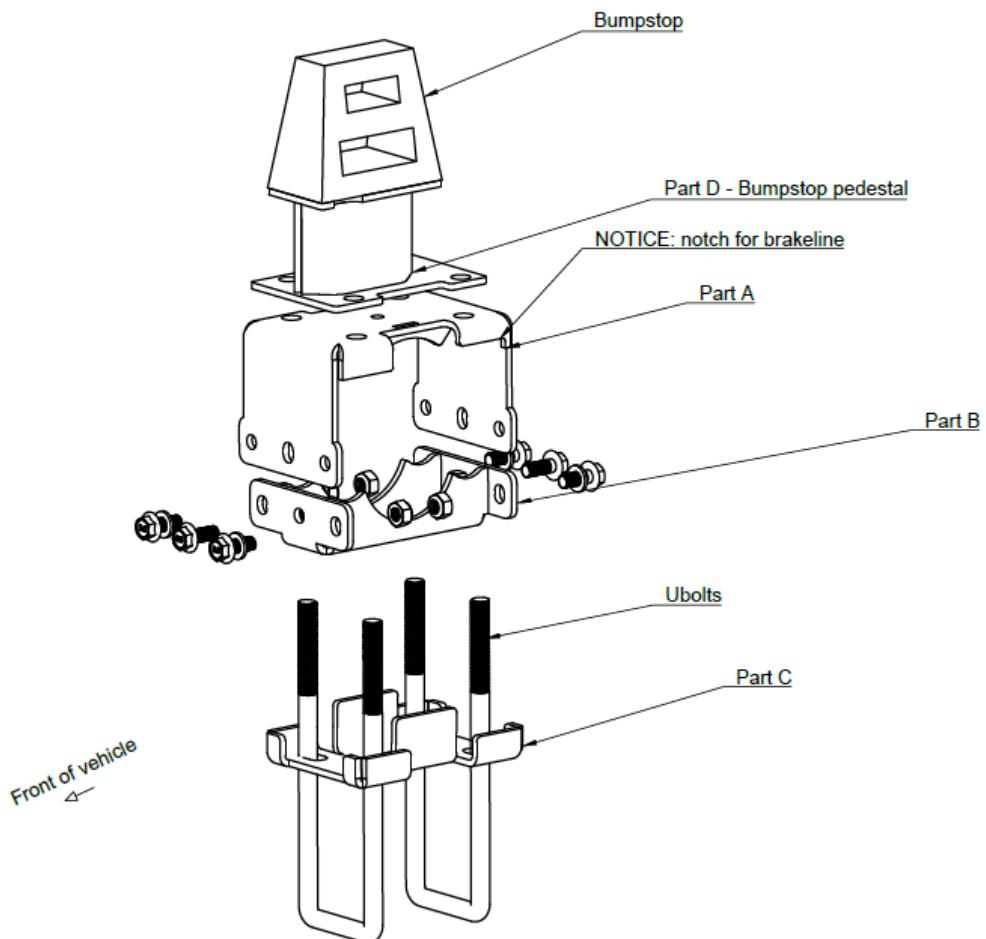
**2012 – 2022 PX1/PX2/PX3 Ford Ranger
2012 – 2021 UP/UR BT50**



WHATS IN THE BOX

- | | |
|---|---|
| <input type="checkbox"/> 2x Part A | <input type="checkbox"/> 4x M14 x 110mm Bolts |
| <input type="checkbox"/> 2x Part B | <input type="checkbox"/> 8x M14 Nyloc nuts |
| <input type="checkbox"/> 2x Part C | <input type="checkbox"/> 16x M14 Washers |
| <input type="checkbox"/> 2x Shackles | <input type="checkbox"/> 4x U bolts+Nuts |
| <input type="checkbox"/> 2x Bumpstops | <input type="checkbox"/> 2x long shackle bushing sleeves |
| <input type="checkbox"/> 12x M10 x 35mm bolts | <input type="checkbox"/> 2x short shackle bushing sleeves |
| <input type="checkbox"/> 8x M10 Nyloc Nuts | <input type="checkbox"/> 2x leaf spring packs |
| <input type="checkbox"/> 12x M10 Washers | <input type="checkbox"/> 1x bushing set |
| <input type="checkbox"/> 4x M14x 150mm Bolts | |

Assembly Diagram



NOTES:

- Professional installation is HIGHLY recommended. G.O.A.T Offroad accepts no liability arising from installation by unqualified persons.
- It is highly advised that a hoist is used, as floor jacks will make it hard to get car high enough to safely install.
- This product is designed to be used with shocks with closed length of around 410mm. Any longer shock will require spacing of the bump stop.
- Due to the extended travel possible, you may require extended rear brake lines.

Tools and Supplies required

22mm open ended spanner

19mm spanner

22mm long socket

19mm long socket

Ratchet

Poly bushing grease

OPTIONAL 2x $\frac{1}{2}$ " Bolts and Nuts for lower shock mounts

Step 1

Raise vehicle and remove rear wheels

Step 2

Starting on the drivers side. Using a transmission stand or jack, support the rear axle.

Step 3

Undo leaf spring ubolts, front leaf spring bolt and rear shackle bolts. Remove leaf spring and shackle.

Step 4

Remove shock.

Step 5 (OPTIONAL)

Because of the orientation of the factory lower shock bolt, with the bolt head facing the wheel, the new underslung leaf springs makes removing the shocks without removing the leaf pack impossible.

To overcome this and make future shock replacement easier, you can drill out the threaded captured nut on the lower shock mount to $\frac{1}{2}$ " and use a $\frac{1}{2}$ " bolt and nut to secure the lower shock. Its recommended to buy a long enough partially threaded bolt, where the bare minimum of thread is required and cut the excess thread off the bolt, a technique called "shanking"

Step 6

Take Part A and place on-top of the factory spring perch, with notches for brake line to the rear of axle. Ensure locating bolt is seated into hole.

Step 7

Next take Part B and 2x M10 bolts. Install it on the underside of the axle and align the centre holes with Part A. Thread in M10 bolts to centre holes until just done up. Then, take 4 more M10 bolts and nuts and washers and install to the remaining 4 holes, leaving loose. Large clamps can be used to 'squish' parts A and part B together and bolts done snug to hold in position.

Step 8

Reinstall shock but do not fully tighten.

Step 9

Install bushings into eyes of one of the leaf spring packs using plenty of poly bushing grease.

Step 10

Install upper shackle bushings into chassis, with plenty of poly bushing grease. Slide long bushing sleeve tube through bushings.

Step 11

Take the Drivers side shackle and 1x M14x 150mm bolt, 2x washers and 1x M14 nut and install shackle, ensuring correct orientation.

Step 12

Take the leaf spring pack and install the front bolt first. Then, swing the leaf pack up and attach to the shackle with the M14x 110mm bolt, ensuring the short bushing tube is installed into rear leaf spring bushes first.

Step 13

Prepare Part C and 2x Ubolts. You will need to use a jack to lift the spring pack to the axle to mate with Part B. Ensuring the the spring pack centre bolt goes into hole on Part B. Install U bolts through Part C and guide ubolts on either side of the spring pack and through Part A.

Step 14

Take Part D, noting orientation with forward aspect towards front of vehicle and install on top of ubolts. Take Ubolt nuts, spring washers and m14 flat washers, begin tightening ubolts down.

Step 15

Once u bolts are tightened you can now tighten the 6x M10 bolts.

Step 16

Repeat on Passenger side.

Step 17

Check brake lines and abs wiring at full droop to see if they are pulling (shock length dependant). Abs wire can be shuffled in mounts to get more length. Brake lines will need to be replaced if they are too tight.

Step 18

Double check all bolts are tightened. Reinstall wheels and lower car to ground. Tighten shock bolts.

That concludes the steps required to install this kit.

We hope you enjoy the benefits of this great product!

Need help?

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