

Lift Shackles

Ford Ranger | 2019+

Part #: 123109 Rev. 062719



491 W. Garfield Ave., Coldwater, MI 49036 • Phone: 517-279-2135

Web: www.bds-suspension.com • E-mail: tech-bds@ridefox.com

SAFETY WARNING

BDS Suspension Co. recommends this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/ reassembly procedures and post installation checks must be known.

INSTALLATION INSTRUCTIONS

1. Park the vehicle on a clean, flat surface and block the front wheels for safety.
2. Raise the rear of the vehicle and support with jack stands under the frame rails, just ahead of the front leaf spring hangers.
3. Lower the spare tire from under the vehicle enough to allow the rear shackles to be removed.
4. Remove the factory shocks from the axle and frame. Save hardware and discard shocks.
5. Support the rear axle under the differential with a hydraulic jack. Remove the driver's and passenger's rear shackles (Fig. 1). Leave the bushings installed in the leaf springs.

FIGURE 1



6. Grease and install the longer sleeve (166) in the frame end. Grease and install the shorter sleeve (165) in the leaf spring.
7. Install the provided shackle plates on each frame rail using a 12mm x 150mm bolt, nut and washers. The larger offset shackle plate will install on the inside of the frame rail and will offset the same as the factory shackle (Fig. 2A). The smaller offset shackle plate will install on the outside of the frame and offset inwards the same as the factory shackle. Run the bolt from the inside of the frame outward. Leave hardware loose.

123109 Box Kit		
Part #	Qty	Description
03750	2	19 Ranger Rear Shackle - Inner
03751	2	19 Ranger Rear Shackle - Inner
165	4	0.800 X .150 X 2.70 Machined OD
166	2	0.800 X .150 X 4.20 Machined OD
855	1	Bolt Pack - Shackles
	2	12mm-1.75 x 150mm Bolt - Clear Zinc - Class 10.9
	4	12mm-1.75 x 110mm Bolt - Clear Zinc - Class 10.9
	12	Washer - Clear Zinc
	6	12mm-1.75 Prevailing Torque Nut - Clear Zinc

8. With both shackles in place, attach the spring eyes to the bottom holes of the shackle plates with a 12mm x 110mm bolt, nut and washers. Run the bolt from the inside out (Fig. 2A). Adjust the position of the spring eyes relative to the shackles by raising or lowering the axle with the jack. Leave hardware loose.
9. Position the additional spacer sleeve (166) between the shackle plates at the center hole and fasten with a 12mm x 150mm bolt, nut and washers (Fig 2B). Run the bolts from the inside out. Leave hardware loose.

FIGURE 2A

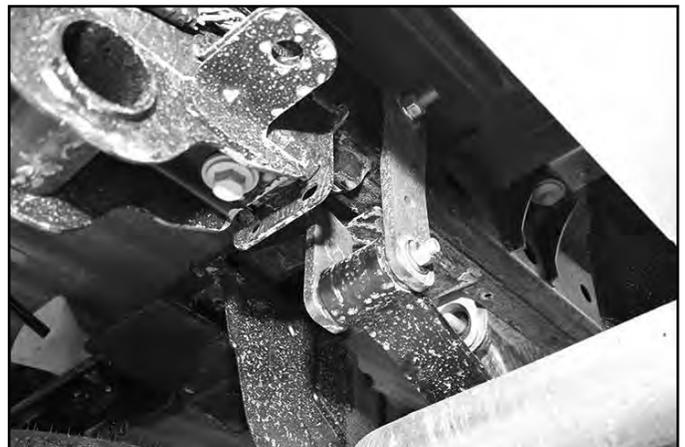


FIGURE 2B



10. Install the new shocks with stock hardware and torque upper and lower bolts to 52 ft-lbs. The axle mounting tabs may need to be bent open slightly to allow for clearance of the larger diameter shocks
11. With the shackles loosely assembled, remove the jack stands and lower the vehicle to the ground. Bounce the rear of the vehicle to settle the suspension and torque all 6 shackle bolts to 76 ft-lbs.
12. Raise the spare tire back to its stowed position.
13. Check hardware after 500 miles.



WE WANT TO SEE YOUR RIDE!

Grab photos of your BDS-equipped truck in action and send them in for a chance to be featured. Send it in to our Bad Ass Rides customer gallery at bds-suspension.com/bar and post them on the BDS Fan Page on Facebook at facebook.com/BDSSuspensions. Don't forget about your BDS swag! BDS offers t-shirts, hoodies, decals and more available on the BDS website or through your local BDS distributor.

TIME TO HAVE SOME FUN

Thank you for choosing BDS Suspension.

For questions, technical support and warranty issues relating to this BDS Suspension product, please contact your distributor/installer before contacting BDS Suspension directly.