

INSTALLATION GUIDE



Part#: 123263



HARDCORE LIMITED LIFETIME WARRANTY

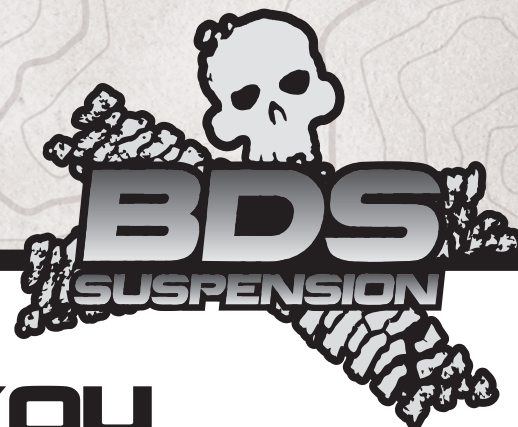
Replacement Radius Arm System

Ford F-250, F-350 | 2023-25

Rev.053025

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Read And Understand All Instructions And Warnings Prior To Installation Of System And Operation Of Vehicle.



THANK YOU

Your truck is about to be fitted with the best suspension system on the market today. That means you will be driving the baddest looking truck in the neighborhood, and you'll have the warranty to ensure that it stays that way for years to come. Thank you for choosing BDS Suspension!

BEFORE YOU START

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.

FOR YOUR SAFETY

Certain BDS Suspension products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Extreme care must be used to prevent loss of control or vehicle rollover. Failure to drive your modified vehicle safely may result in serious injury or death. BDS Suspension Co. does not recommend the combined use of suspension lifts, body lifts, or other lifting devices. You should never operate your modified vehicle under the influence of alcohol or drugs. Always drive your modified vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Always wear your seat belt.

BEFORE INSTALLATION

- Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
- Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
- Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.
- Post suspension system vehicles may experience drive line vibrations. Angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
- Secure and properly block vehicle prior to installation of BDS Suspension components. Always wear safety glasses when using power tools.
- If installation is to be performed without a hoist, BDS Suspension Co. recommends rear alterations first.
- Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle attitude. Always measure the attitude prior to beginning installation.



Visit 560plus.com for more information.

TIRES AND WHEELS

Designed to work with:

35x12.50x17(18)(20) Tire
4-1/2" ~ 5" Backspace Wheel



BEFORE YOU DRIVE

Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.

Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure. Longer replacement hoses, if needed can be purchased from a local parts supplier.

Perform head light check and adjustment.

Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.

CONTENTS OF YOUR KIT

123263 - Radius Arm Box Kit

Part #	Qty	Description
A444	1	2023 Radius Arm Assembly - DRV Side
05356	1	2023 Super Duty Radius Arm- Drv
868190	1	Ford F250 Control Arm Bushing
A445	1	2023 Radius Arm Assembly- PASS side
05357	1	2023 Super Duty Radius Arm- Pass
868190	1	Superduty Bushing
02802	2	BDS Badge
995	1	Rivet Bolt Pack
05358	4	3 Position Radius Arm Cam
02002ZP	2	M18-2.5 x 150 Bolt
N18MPT	2	M18-2.5 Lock Nut
W34SAE	4	3/4" SAE flat washer
099000	4	Zip Ties
099002	2	Push Pin Zip Ties



TECH TIPS

TROUBLESHOOTING INFORMATION FOR YOUR VEHICLE

1. *This kit is not compatible with trucks equipped with radius arm mounted ride height sensors.*
2. Recommended for use with 2.5" to 6" of lift.
3. A minimum of 1" bump stop extension must be used
4. The new arms use your existing hardware at the frame and a combo of factory and provided hardware with cam locks at the axle.
5. This is only a guide for installation of the radius arms, follow main box kit installation instructions for installation of arms with a complete kit.

INSTALLATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS

1. Park the vehicle on a clean, flat surface and block the rear wheels for safety.
2. Raise the front of the vehicle and support under the frame rails with jack stands.



Tip

As a result of the location of the long radius arm suspension, support locations are limited. Use your best judgment while supporting the vehicle with sufficient strength stands at appropriate locations. The radius arms will need to move freely during this installation as they will be replaced. This step is necessary to dislodge the tapered track bar mount in the follow step.

3. Remove the front wheels.
4. Support the front axle with a hydraulic jack. With the axle supported this installation can be performed on both sides at the same time, but is not necessary.
5. Disconnect the vacuum line and axle belt tube from the top of radius arm using a clip removal tool. (Fig. 1)

SPECIAL TOOLS

- General Tools
- Torque Wrench
- Rivet Gun
- Hydraulic Jack
- Jack Stands

FIGURE 1



RADIUS ARM INSTALLATION:

Note: Radius arms are side specific. The Driver Side radius can be identified by the notch found on the top of the radius arm. See (Fig. 2)

6. Working on one side of the vehicle at a time, remove the stock radius arm and replace with the new one. Install cams into the lower slots with new 18mm hardware, and use one of the old lower 18mm nuts on the driver's side upper mount at the axle with factory hardware. The upper bolt at the axle can be removed with the stock shock in place, however, certain aftermarket shocks may need to be disconnected to allow removal of the upper bolt.

Note: Install the cam washer with the hole rearward for 2.5"-3" Lifts, in the center for 4-5" lifts and forward for 6-7" lifts. (Fig. 2A)

FIGURE 2



7. Tighten the front hardware at the axle to 240 ft-lbs. Do not tighten the frame pivot hardware at this time.
8. Attach vacuum line and axle vent tube to the radius arm with the included zip ties and push pin zip tie where the upper mount at the axle is located. Allow axle to droop out to check for adequate slack.
9. Reinstall wheels, lower vehicle to the ground.
10. Tighten the radius arm pivot hardware at the frame to 221 ft-lbs.
11. Check all hardware for proper torque.
12. Torque lug nuts to factory specification.
13. The badge can now be riveted on to the outside faces of the radius arms using the provided 1/8" rivets. Any residue on the badge can be cleaned up using alcohol or brake cleaner before install. With the badge not installed it can be painted to what ever color you desire, or left raw as a stainless steel badge.
14. Recheck all hardware for proper torque, check again after 500 miles and at regularly scheduled maintenance intervals. An alignment for a caster check is now recommended, but not necessary.



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.