

INSTALLATION GUIDE



Part#: 012431



HARDCORE LIMITED LIFETIME WARRANTY

4" Radius Arm Suspension System

Dodge Ram 3500 4WD Pickup | 2019-2022

Dodge Ram 2500 4WD Pickup | 2019-2023

Rev. 091423

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

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

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

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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.

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.

TIRES AND WHEELS

FITMENT GUIDE

4" Lift:

37x12.50 w/ 5.625" Backspacing on 9" wide wheel

35x12.50 w/ 4.5" Backspacing on 9" wide wheel



CONTENTS OF YOUR KIT

012431		
<i>Part #</i>	<i>Qty</i>	<i>Description</i>
082405R	1	Pitman Arm
03816	1	Trackbar bracket
27031	1	Fish Wire
03855	1	Brake Bracket - DRV
03856	1	Brake Bracket - Pass
099000	2	Zip Ties
86-6277	1	CV Joint Boot Clamp
86-6276	1	CV Joint Boot Clamp
01253b	1	Sway Bar Drop - DRV
01254b	1	Sway Bar Drop - Pass
494	1	Bolt Pack
	2	14mm-2.00 x 35mm Bolt, Clear Zinc
	4	14mm Washer, Clear Zinc
	2	14mm-2.00 Prevailing Torque Nut, Clear zinc
495	1	Bolt Pack
	2	1/4" USS Washer, Clear Zinc
	2	5/16"-18 Lock Nut, Clear Zinc
422	1	Bolt Pack
	4	3/8"-16 x 1-1/4" Bolt, Yellow Zinc
	4	3/8" Washer, Yellow Zinc
	4	3/8"-16 Prevailing Torque Nut, Yellow Zinc

122321		
<i>Part #</i>	<i>Qty</i>	<i>Description</i>
A243	2	Radius Arm
02802	2	BDS Badge
995	1	Bolt Pack
	4	Rivets

Front Shocks (Diesel)		
<i>Part #</i>	<i>Qty</i>	<i>Description</i>
85752	2	Front NX2 Shock (Diesel)
or		
98224752	2	Front Fox 2.0 (Diesel)

Front Shocks (Gas)		
<i>Part #</i>	<i>Qty</i>	<i>Description</i>
85700	2	Front NX2 Shock (Gas)
or		
98224700	2	Front Fox 2.0 (Gas)

INSTALLATION INSTRUCTIONS

PRE INSTALLATION NOTES:

6.4L Gas models will require extensive exhaust modification to clear the front driveshaft. The vehicle can be driven without the front driveshaft to an exhaust shop for modification and reinstalled after modification.

Separate instructions are provided with the Index Ring & Rear Box kits.

SPECIAL TOOLS

#1: Pitman arm puller

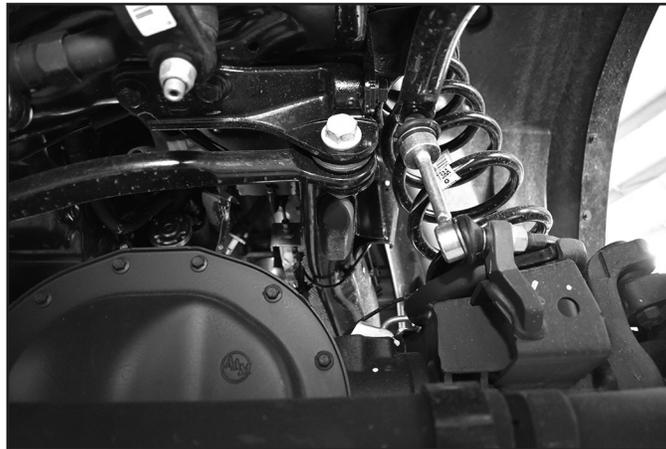
MEASURE FIRST

Measure ride height before and after installation as described on page 4.

RADIUS ARM INSTALLATION INSTRUCTIONS

1. Park vehicle on clean flat and level surface. Block the rear wheels for safety.
2. Remove the front trackbar bolt from the frame rail. Retain all hardware. (Fig. 1)

FIGURE 1



3. Raise the front of the vehicle and support the frame rails with jackstands. Do not support on the radius arms, they will be removed during the installation.

SUSPENSION DISASSEMBLY

4. Support the front axle with a hydraulic jack.
5. Remove the factory wheels, remove the retaining clips that hold the rotor on and may interfere with aftermarket wheels.
6. Disconnect the front drive shaft from the front axle. Hang the drive shaft from the frame. Retain all hardware

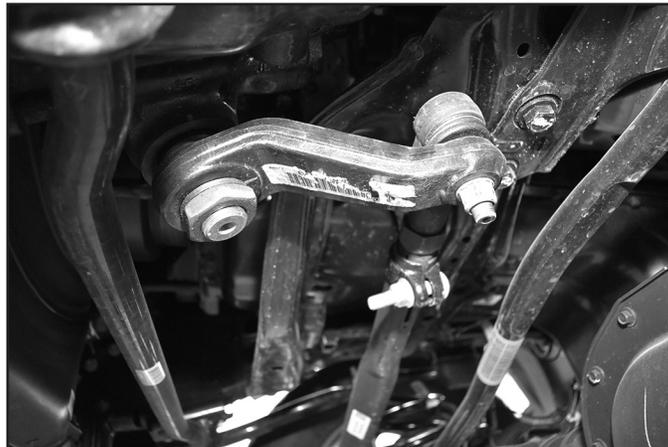
7. Break the nut loose on the adjusting sleeve of the drag link. (Fig 2)

FIGURE 2



8. Disconnect the drag link tie rod from the pitman arm, do not damage the tie rod boot. Mark the orientation of the pitman arm and remove the pitman arm from the sector shaft. (Fig. 3)

FIGURE 3



9. Disconnect the sway bar links from the sway bar. Retain all hardware. (Fig. 4)

FIGURE 4



10. Disconnect the brake line bracket from the top of the radius arm mount on the axle. (Fig. 5)

FIGURE 5



11. Detach the ABS and Central Axle Disconnect wires from retaining clips to allow for extra slack when the new coils will be installed.
12. Support the front axle with a hydraulic jack.
13. Disconnect the shock hardware at the lower and upper mounts; keep the lower bolt and nut tab. Remove the shocks. (Fig 6)

FIGURE 6



14. Lower the axle and remove the factory coils. Use care not to overextend any brake line, ABS, or CAD wires.

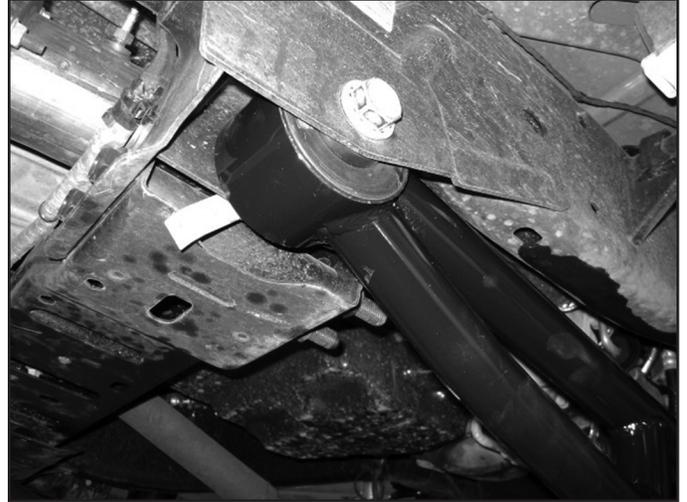
RADIUS ARM INSTALLATION:

15. Working on one side of the vehicle at a time, remove the factory radius arm. Retain all hardware.
16. Replace the radius arm with the new one, both sides are the same. Reattach with factory hardware. Adjust the cams so the bolt is as far forward as possible. (Fig 7 Driver side shown) Note: Due to increased caster built into the arms, it may not be possible to reinstall the factory hardware with the opposite side hardware in. Remove one of the opposing bolts at the axle to allow the axle to rotate while supporting it with a jack. (Fig 8)

FIGURE 7



FIGURE 8



17. Repeat radius arm installation on opposite side.
18. Tighten the upper bolt at the axle to 133 ft-lbs plus 90deg. Tighten the lower cams to 133 ft-lbs plus 90deg. Do not tighten the pivot bushing hardware at the frame at this time.

BUMP STOP INSTALLATION:

19. Remove the factory bump stops, it is easiest to hit them from side with a hammer to pop them out. (Fig. 9)

FIGURE 9



20. Grease new replacement bump stops and raise axle to press the bump stops into position. These will be a tight fit. It is easiest to lift the axle with a jack to compress the bump stops into position. (Fig. 10)

FIGURE 10



TRACK BAR BRACKET INSTALLATION

21. Remove the factory track bar bracket, retain the vertical hardware that goes into the cross member.
22. Install the provided trackbar bracket with factory bolts through the original trackbar bracket holes in the crossmember, do not tighten.
23. Use the provided 14mm hardware in bolt pack 494, Bolt the new trackbar bracket to the Frame tab with the nut on the inside of the frame tab. Use OE hardware in the 3 remaining holes. Torque the OE bolts to 118 ft-lbs and provided 14mm hardware to 148.4 ft-lbs. (Fig 11)

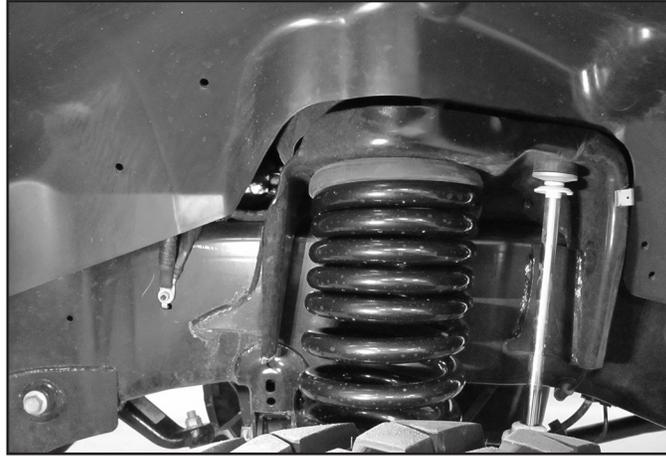
FIGURE 11



COIL / SHOCK INSTALLATION:

24. See Instruction provided in Coil Spring box for proper indexing of the Passenger side coil spring.
25. Install new coils with the factory isolator on top of the coil. The end of the spring with the windings closer together will go at the top, do not install upside down. Use hydraulic jack to raise the axle to seat the coils. Ensure that the coils are seated properly. Driver's side – Figure 10

FIGURE 10 - DRIVER'S SIDE



26. Grease and install bushings and sleeves into the shocks. Install new shocks with cup washers, bushings, and 1/2" nut at the top mount. Tighten the nut until the bushings begin to swell.
27. Attach the lower shock with factory hardware. Tighten hardware to 65 ft-lbs.
28. Mark or measure the amount of exposed threads on the drag link sleeve. Loosen the drag link sleeve until you can rotate the tie rod end 180deg. Re-thread the drag link sleeve to the original location. This is a starting point and will need to be adjusted after the installation is complete. (Fig 11, 12)

FIGURE 11

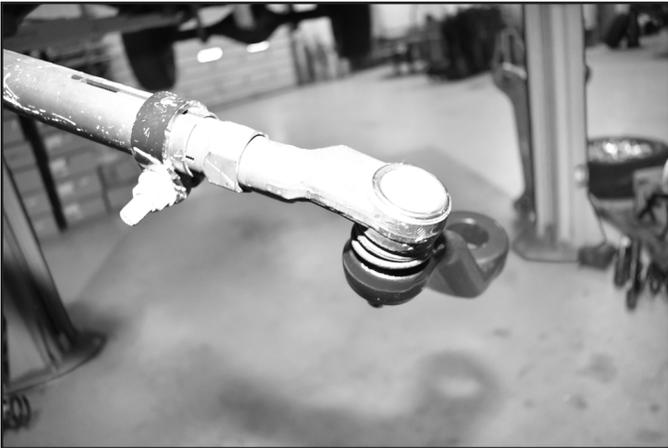
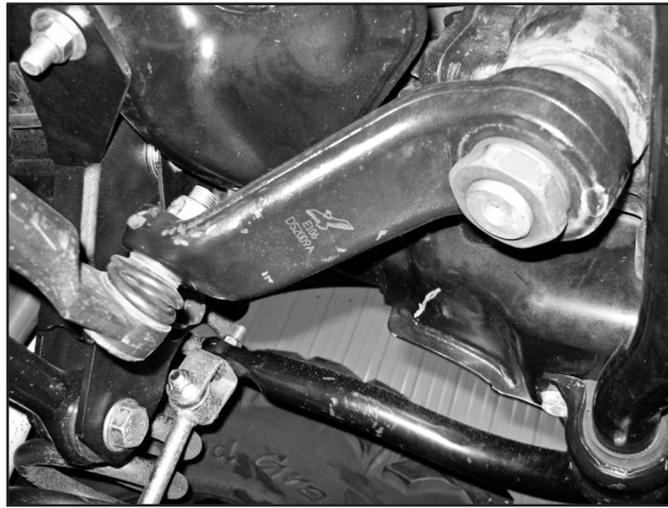


FIGURE 12



29. Install the new pitman arm, use alignment mark made earlier. Thread Locker factory nut and install with lock washer tighten nut to 332 ft-lbs. (Fig 13)
30. Attach drag link to pitman arm with factory nut. Tighten to 27 ft-lbs Plus 180deg. (Fig 13)

FIGURE 13



31. Disconnect the brake line bracket from the frame (Fig. 19 Driver side). Reattach the factory brake line bracket to the axle with factory hardware, torque to 10ft-lbs. slightly bend the factory axle bracket to create more slack in the brake line with a pliers or small adjustable wrench.
32. Mount the brake line relocation bracket to the factory brake line mount location at the frame with factory hardware, torque to 9ft-lbs. Mount the brake line to the relocation bracket using the provided hardware (Bolt pack 495), torque to 101in-lbs. (Fig. 14 Driver Side shown, Fig. 15 Passenger side)

FIGURE 14



FIGURE 15



33. Install the sway bar drop brackets with factory hardware to the frame. The flat side of the bracket will face "out" and the brackets will offset the sway bar slightly forward. Attach the sway bar to the drop brackets with 3/8" hardware (Bolt Pack 422), tighten factory hardware to 43 ft-lbs and 3/8" hardware to 37 ft-lbs. (Fig. 16, 17)

FIGURE 16



FIGURE 17



34. Reconnect the sway bar links with the factory hardware, torque to 60ft-lbs

35. PLEASE SEE INDEX RING KIT INSTRUCTIONS AT THIS TIME.

36. PLEASE SEE REAR KIT INSTRUCTIONS AT THIS TIME.

37. Install wheels and tighten lug nuts to factory specifications. Lower the vehicle to the ground.
38. Tighten radius arm hardware at the frame to 258 ft-lbs.
39. If trackbar was disconnected from axle side for any reason, tighten trackbar axle hardware to 285 ft-lbs Turn the steering wheel to get the trackbar sleeve to align with the hole in the bracket. Tighten to 74 ft-lbs plus 160deg.
40. Recheck all hardware, check again at 500 miles, and again at regularly scheduled maintenance intervals.
41. Straighten the wheels, adjust the steering wheel to center. Torque the drag link clamp bolt to 55 ft-lbs. Do not drive the vehicle with the wheel off center or adverse traction control events may occur. An alignment is recommended at this time. The caster will be out of specification on the high side (6-7 degrees) with the cams all the way forward, this is acceptable to keep the caster from going negative during full droop incidences. If 4wd driveline or driving characteristics are not ideal, the caster can be lowered, however it is recommended to run as much as possible.

POST-INSTALLATION

42. Recheck all hardware, check again at 500 miles, and again at regularly scheduled maintenance intervals. Check brake lines and ABS wires for proper clearance through steering sweep, use zip ties on the ABS wires if necessary. An alignment must now be performed.



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

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INSTALLATION GUIDE



Part#: 032302



HARDCORE LIMITED LIFETIME WARRANTY

3" Diesel / 4" Gas Coils

Dodge Ram 3500 4WD Pickup | 2013-2023

Dodge Ram 2500 4WD Pickup | 2014-2023

Rev. 071423

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BEFORE INSTALLATION

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- 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.

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.

INSTALLATION INSTRUCTIONS

3" Diesel / 4" Gas

Lower the axle and install the new coils with factory isolator. The driver side will install with the isolator tab in the fac The end of the spring with the windings closer together will go at the top, do not install upside down. The passenger's side upper mount will need to be reindexed just over 45 degrees.. There is a template at the end of the instruction sheet. Cut this out and place over the passenger's side upper mount, mark the center of the hole, and drill to 1/2". The hole should now be directly to the 'Rear' of the vehicle. Install isolator with the new coil spring. Ensure that coils are seated properly, have someone help if necessary. (Fig 12a, 12b, 13a, 13b)

FIGURE 12A



FIGURE 12B

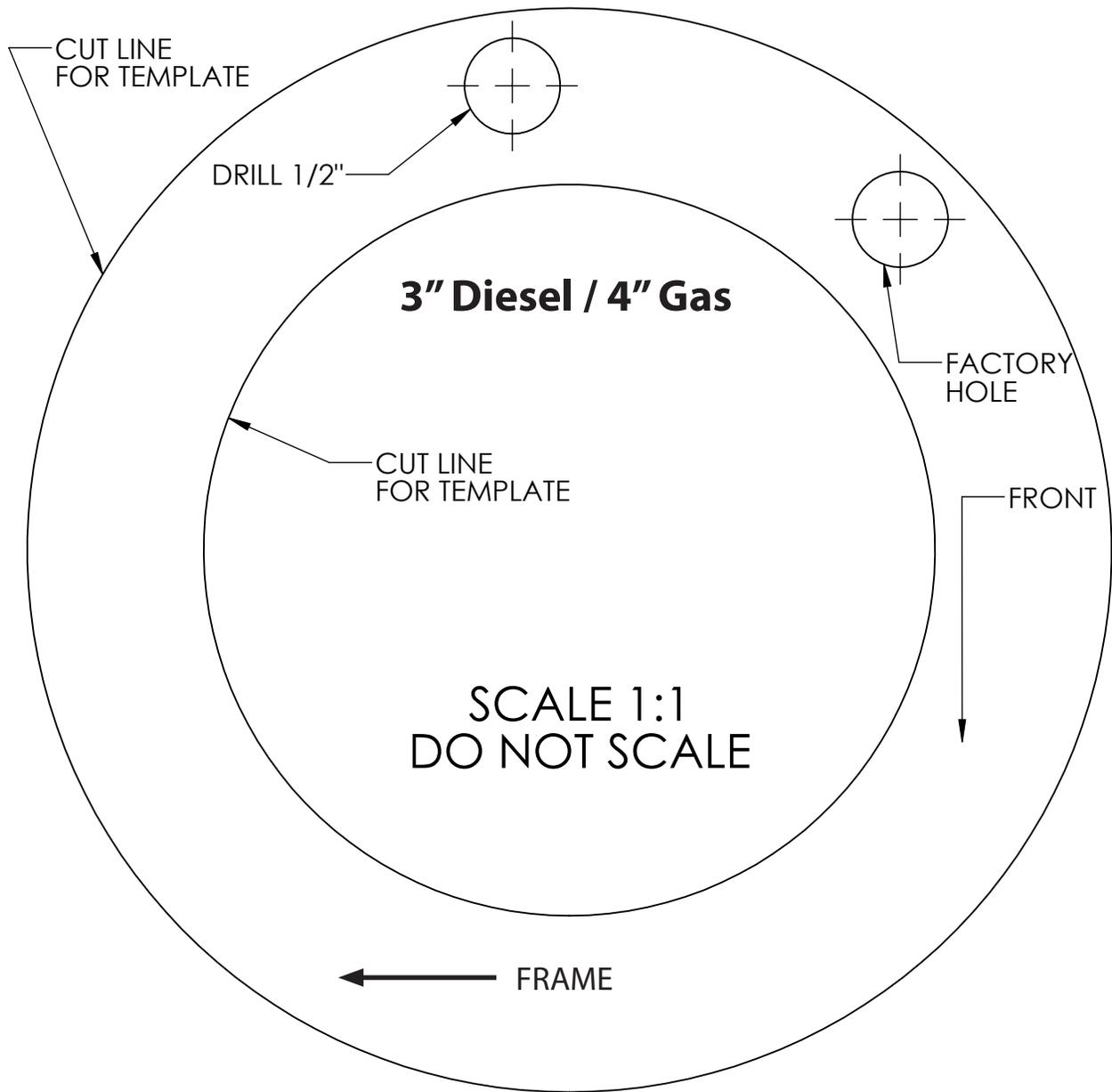


FIGURE 13A



FIGURE 13B





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INSTALLATION GUIDE



Part#: 032491



HARDCORE LIMITED LIFETIME WARRANTY

4" Diesel / 5.5" Gas Coils

Dodge Ram 3500 4WD Pickup | 2013-2023

Dodge Ram 2500 4WD Pickup | 2014-2023

Rev. 071423

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Perform head light check and adjustment.

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

INSTALLATION INSTRUCTIONS

4" DIESEL/5.5" GAS

Lower the axle and install the new coils with factory isolator. The end of the spring with the windings closer together will go at the top, do not install upside down. The passenger's side upper mount will need to be reindexed. There is a template at the end of the instruction sheet. Cut this out and place over the passenger's side upper mount, mark the center of the hole, and drill to 1/2". The hole should now be directly to the 'Outside' of the vehicle. Ensure that coils are seated properly, have someone help if necessary. (Fig 1, 2, 3, 4)

FIGURE 1



FIGURE 2

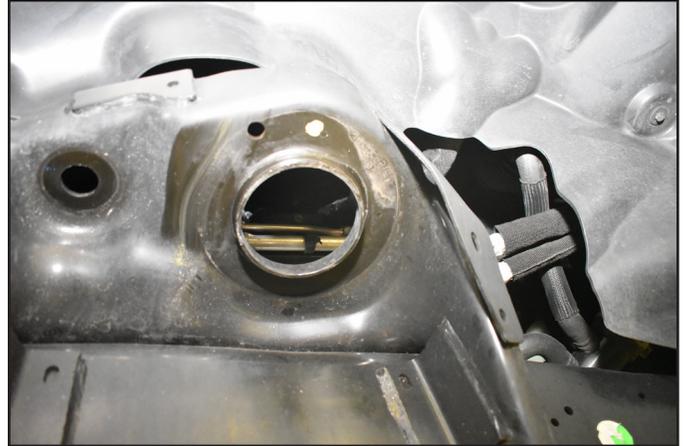
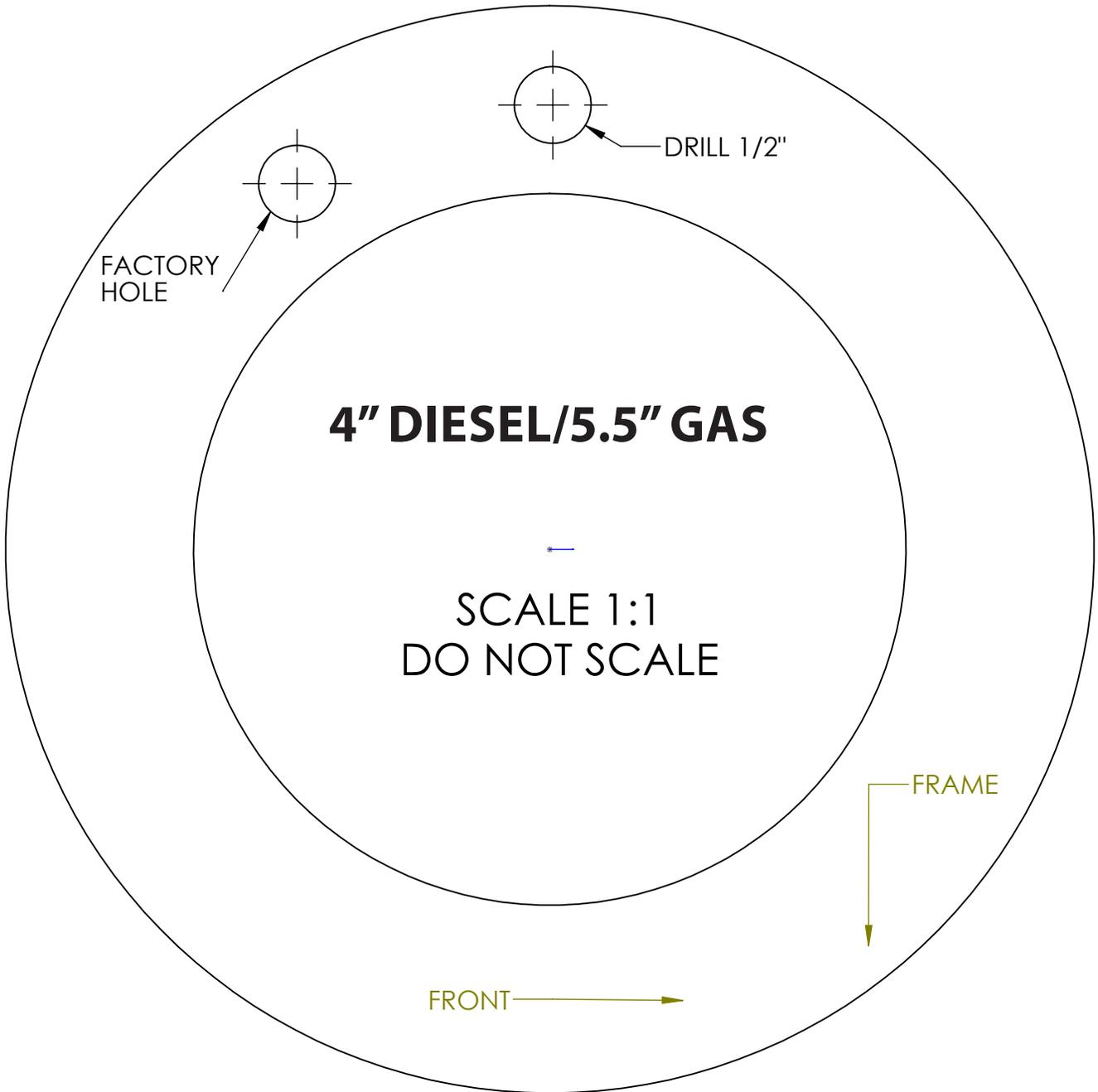


FIGURE 3



FIGURE 4





INSTALLATION GUIDE



Part#: 032403



HARDCORE LIMITED LIFETIME WARRANTY

4" Diesel / 5.5" Gas Air Ride Coils

Dodge Ram 3500 4WD Pickup | 2013

Dodge Ram 2500 4WD Pickup | 2023

Rev. 071423

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TIRES AND WHEELS

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4" Lift:

37x12.50 w/ 5.625" Backspacing on 9" wide wheel

35x12.50 w/ 4.5" Backspacing on 9" wide wheel



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Perform head light check and adjustment.

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

INSTALLATION INSTRUCTIONS

4" Diesel / 5.5" Gas Air Ride

Lower the axle and install the new coils with factory isolator. The end of the spring with the windings closer together will go at the top, do not install upside down. The passenger's side upper mount will need to be reindexed. There is a template at the end of the instruction sheet. Cut this out and place over the passenger's side upper mount, mark the center of the hole, and drill to 1/2". The hole should now be directly to the 'Rear' of the vehicle. Install isolator with the new coil spring. Ensure that coils are seated properly, have someone help if necessary. (Fig 1, 2, 3, 4)

FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4

