



D5623 Installation Instructions

2014-16 Dodge 2500

2013-16 Dodge 3500

Transfer Case Indexing Ring Kit

Read and understand all instructions and warnings prior to installation of product and operation of vehicle.

Zone Offroad Products 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. Minimum tool requirements include the following: Assorted metric and standard wrenches, hammer, hydraulic floor jack and a set of jack stands. See the "Special Tools Required" section for additional tools needed to complete this installation properly and safely.

»» PRODUCT SAFETY WARNING

Certain Zone 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. Zone Offroad Products 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.

»» TECHNICAL SUPPORT

Live Chat provides instant communication with Zone tech support. Anyone can access live chat through a link on www.zoneoffroad.com.

www.zoneoffroad.com may have additional information about this product including the latest instructions, videos, photos, etc.

Send an e-mail to tech-zone@sporttruckusainc.com detailing your issue for a quick response.

888.998.ZONE Call to speak directly with Zone tech support.

Difficulty Level

easy 1 2 **3** 4 5 difficult

Estimated installation: 2 hours

Special Tools Required

short 9/16" wrench or

9/16" "S" shaped wrench

»» PRE-INSTALLATION NOTES

1. Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
2. Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
3. 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.
4. 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.
5. Secure and properly block vehicle prior to installation of Zone Offroad Products. Always wear safety glasses when using power tools.
6. If installation is to be performed without a hoist, Zone Offroad Products recommends rear alterations first.
7. 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.

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***Important* Verify you have all of the kit components before beginning installation.**

Kit Contents

D5623

Qty	Description
1	Transmission Crossmember
1	Front Driveshaft Spacer
1	Bolt Pack - Front Drive Shaft Spacer
4	7/16" Flanged head bolt
1	Indexing Ring - 6 bolt - studs pre-installed
1	Bolt Pack - Indexing Ring
6	10mm x 30mm Flat Head Bolt
6	3/8"-24 Hex Nut
6	3/8" cadmium plated washer
6	Zip Tie
1	Thead locker - 1 ml

IMPORTANT

Zone Offroad recommends upgrading the transmission output shaft on vehicles with larger tires that will see heavy loads from other upgrades such as gearing, or performance tunes especially in high payload, heavy towing, or competition pulling applications.

INSTALLATION INSTRUCTIONS

1. Park vehicle on clean, flat, and level surface. Block the rear wheels for safety.
2. Remove the transfer case skid plate if equipped, it will not be reinstalled.
3. Remove the rear driveshaft, retain hardware. Disconnect the front driveshaft from the transfer case. (Figure 1a, 1b)



Figure 1a



Figure 1b

4. Disconnect the wire harness that controls the transfer case. (Figure 2)



Figure 2

5. Disconnect the breather vent tube from the top of the transfer case.
6. Remove the 3 nuts that hold the transmission mount to the transmission cross-member. (Figure 3)

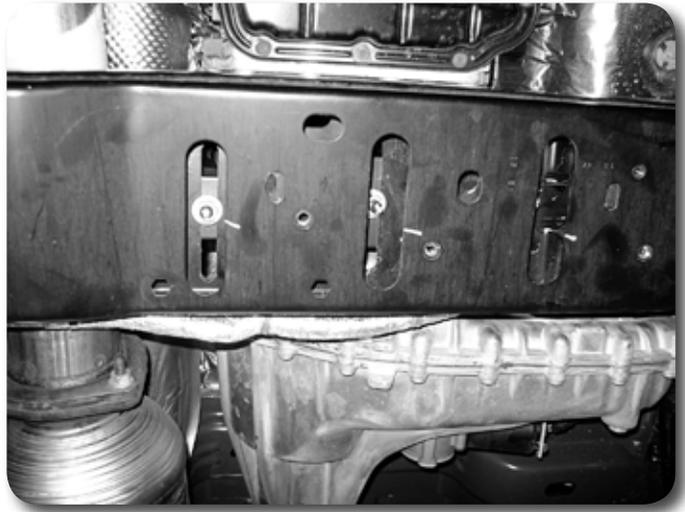


Figure 3

7. With the transmission well supported with a jack, remove the transmission crossmember and retain hardware.
8. If necessary to access the transfer case bolts, remove the transmission mount from the transmission. (Figure 4)

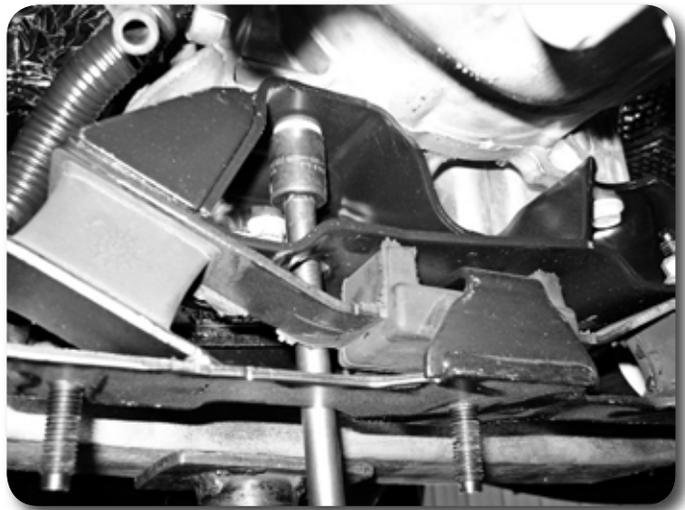


Figure 4

9. Manual shift transfer cases: Disconnect the shift linkage from the transfer case, retain all hardware.
10. Remove the 6 nuts that hold the transfer case to the transmission and remove the transfer case from the vehicle. Use extra caution as the transfer case is very heavy.

NOTE: Do NOT remove the transmission output seal!

11. Remove the 6 studs by double nutting the studs. Place new indexing ring up to the transfer case. Attach with 10mm flat head allen bolts. Note there is a specific orientation and the indexing ring will need to be rotated to get the proper hole alignment. (Figure 5a, 5b)

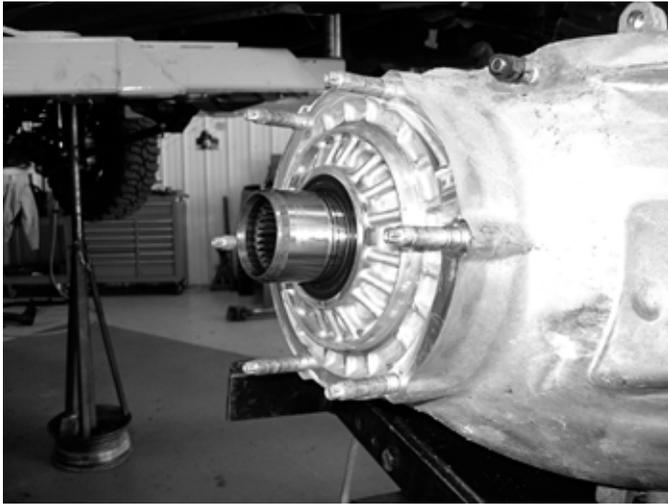


Figure 5a



Figure 5b

Step 12 Note

Index ring hardware is located in bolt pack 950.

12. Reinstall the transfer case and tighten with 3/8" fine thread nuts with washers. Loc-tite and tighten to 45 ft-lbs. Note: This torque applies with the loc-tite still slightly damp and acting as a lubricant. The max recommended torque is 55 ft-lbs when rechecking hardware.
13. Disconnect the wire harness on the frame rail, reroute the wires to the transmission / transfer case above the front driveshaft. (Figure 6)



Figure 6

NOTE: Before hooking up the front driveshaft, now is a great time to grease the nearly impossible to access grease fitting on the front dual cardan joint. A needle adaptor on a grease gun is required. This fitting is required to be serviced at every oil change interval. Ensure that this maintenance is not skipped!

Step 15 Note

Hardware for front driveshaft spacer is located in bolt pack 932.

14. Reattach the front driveshaft with driveshaft spacer to the transfer case with new 7/16" hardware with loc-tite on the threads. Tighten to 75 ft-lbs. (Figure 7)



Figure 7

15. Reinstall the transmission mount with factory hardware.
16. Loosely install new base with the factory nuts (3 plc), the taller end of the bracket will face towards the front of the vehicle. (Figure 8a, 8b)

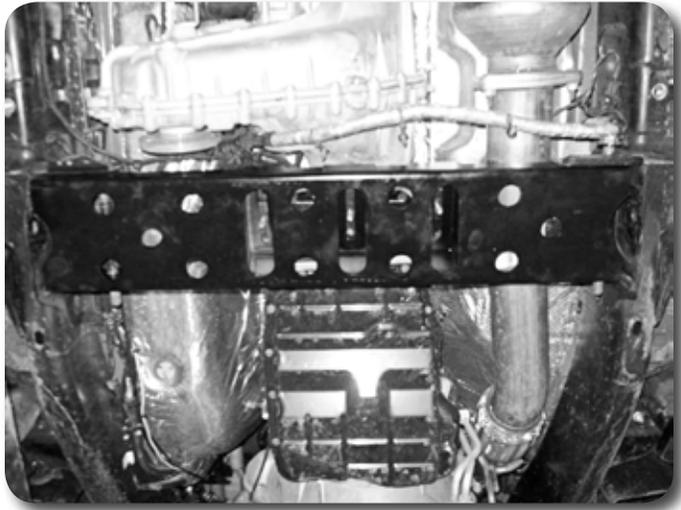


Figure 8a

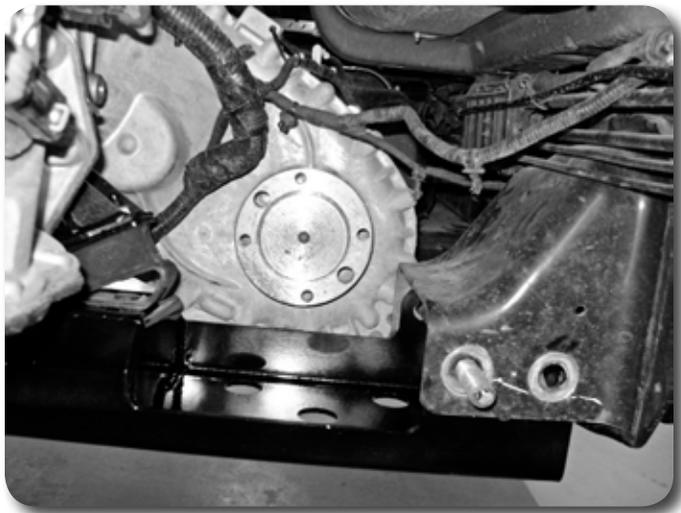


Figure 8b

17. Install new crossmember with factory bolts Tighten to 150 ft-lbs.
18. Attach the wiring to the transmission crossmember with zip ties and secure wires with the other zip ties to retain all wires to keep them clear of any rotating parts or exhaust..
19. Reinstall rear driveshaft with factory hardware with loc-tite on threads. Tighten to 75 ft-lbs.
20. Recheck all hardware for proper torque. Check again after 500 miles and at regularly scheduled maintenance intervals.

Post-Installation Warnings

1. 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.

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