



Part#: 012501, 012502

Product: 5" Front Box Kit

Application: 1969-1993 Dodge 3/4 Ton Pickup 4WD

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## READ AND UNDERSTAND ALL INSTRUCTIONS AND WARNINGS PRIOR TO INSTALLATION OF SYSTEM AND OPERATION OF VEHICLE.

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**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.

**PRODUCT SAFETY WARNING** 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.

### 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 BDS Suspension components. Always wear safety glasses when using power tools.
6. If installation is to be performed without a hoist, BDS Suspension Co. 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.

### 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. 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.
3. Perform head light check and adjustment.
4. Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.

## PARTS LIST #012501

| Part #     | Qty | Description                       |
|------------|-----|-----------------------------------|
| 3525RB     | 8   | Leaf Spring Bushings              |
| 962120834Q | 4   | 9/16 x 2-1/2 x 8-3/4" Sq. U-Bolt  |
| N96FH      | 8   | 9/16" Fine High Nut               |
| W96S       | 8   | 9/16" Flatwasher                  |
| 16         | 4   | .625 X 3 X .049 Sleeve            |
| LW56       | 1   | 5/16" Lockwasher                  |
| N56SS      | 1   | 5/16" Nut                         |
| B56.75G2   | 1   | 5/16" x 3/4" Bolt                 |
| 2124       | 2   | 2-1/2 x 4" Degree Shim            |
| 90BA       | 2   | 90 degree brake line drop bracket |
| SBLA       | 1   | Flat brake line drop bracket      |

## PARTS LIST #012502

| Part #     | Qty | Description                       |
|------------|-----|-----------------------------------|
| 3525RB     | 8   | Leaf Spring Bushings              |
| 963000712R | 2   | 9/16 x 3 x 7-1/2" U-Bolt          |
| 963340958R | 1   | 9/16 x 3-3/4 x 9-5/8" U-Bolt      |
| 96400      | 2   | Stud (Dual Thread)                |
| N96FH      | 6   | 9/16" Fine High Nut               |
| N96FPT     | 2   | 9/16" Fine Torque Nut             |
| W96S       | 8   | 9/16" Flatwasher                  |
| 16         | 4   | .625 X 3 X .049 Sleeve            |
| LW56       | 1   | 5/16" Lockwasher                  |
| N56SS      | 1   | 5/16" Nut                         |
| B56.75G2   | 1   | 5/16" x 3/4" Bolt                 |
| 2124       | 2   | 2-1/2 x 4" Degree Shim            |
| 90BA       | 2   | 90 degree brake line drop bracket |
| SBLA       | 1   | Flat brake line drop bracket      |

## INSTALLATION INSTRUCTIONS

1. Safely raise the vehicle and support with jack stands for safety.
  2. Remove the tires and wheels.
  3. Place support floor jack under the front axle.
  4. On 1974 1/2 and newer vehicles with a Saginaw type shaft—Remove the front driveshaft. The constant velocity (C.V.) joint will require grinding in order for clearance. This type of shaft has round flange yokes on the transfer case end. Grind down the corners on the C.V. joint housing and the two casting tabs where the shaft tubing meets the C.V. joint. Grind all points that will bind the assembly and remember to allow for front end travel. No grinding is necessary on the front axle end of the shaft.
  5. Remove OEM shock absorbers.
  6. Remove OEM steering arm. A steering block or a replacement arm and adjustable drag link will be required.
  7. Remove the front-center rubber brake hose where it attaches to the crossmember by removing the sheet metal screws. Attach the flat BDS brake line drop bracket to the crossmember with the OEM fasteners and attach the brake line to the bottom hole of the bracket. Carefully re-bend the metal brake line downward to attach the bottom of the bracket. Use the supplied 5/16" fasteners to attach. The bottom end of the bracket should be angled towards the driver's side of the vehicle.
  8. Be sure the floor jack is supporting the front axle and remove and discard the front spring to axle OEM u-bolts, nuts, and washers.
  9. Carefully lower the front axle to allow for spring removal.
  10. Remove the springs' shackle and stationary eye bolts and remove springs.
  11. On 1974 1/2 and newer vehicles only- On passenger's side of vehicle, remove the two spring to axle mounting studs. Install new BDS extension studs and use loctite type substance to prevent loosening.
  12. Lightly grease bushings and install them into the BDS leaf springs. Lightly grease the sleeves and install them into the bushings.
- Note: Some models use 5/8" diameter spring eye bolts. In this case it is not necessary to install the sleeve in the leaf spring bushings.*
13. Install the new springs, but do not torque the mounting bolts at this time. Be sure the downturned (reversed) eye is toward the rear.
  14. Install the 2-1/2 x 4 degree shims between the axle and the springs, ensuring that the thick end is facing the front of the vehicle.
  15. Raise the axle up to the springs. Be sure the center bolt head aligns with the spring seat.

16. Position the u-bolt plate and install the supplied u-bolts and fasteners. Torque to 100-120 ft-lbs.
17. Install correct BDS shock absorbers.
18. Install front driveshaft by removing the floor jack allowing the axle to hang. Check C.V. joint housing for clearance. Install the, front axle and C.V. yoke bolts and tighten to OEM specification.
19. Install tires and wheels and lower the vehicle to the floor. Torque front spring hanger and rear shackle bolts to 80 ft-lbs. of torque.
20. Install appropriate rear BDS lift kit at this time. See Rear Installation instructions
21. Adjust headlights to proper setting and install the warning card.
22. This vehicle will need to be aligned after the kit is installed.

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## **NOTICE TO DEALER/INSTALLER**

These instructions, the warning card, and included decals must be given to the owner of this BDS Suspension product.

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