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Part#: 122505

Lower Long Arm Kit

1994-2001 Dodge 1/2 Ton

1994-2002 Dodge 3/4 Ton

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

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

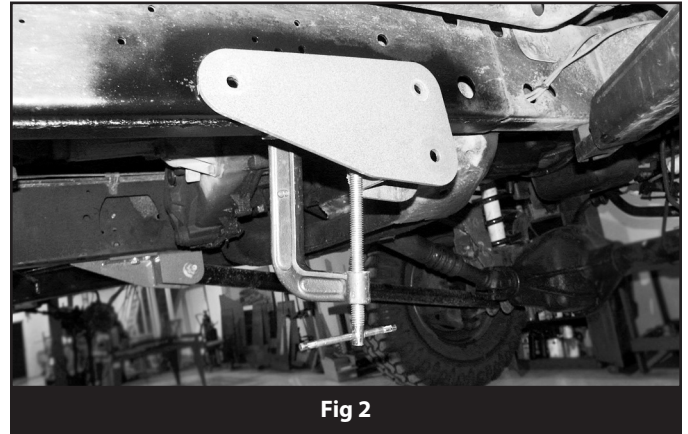
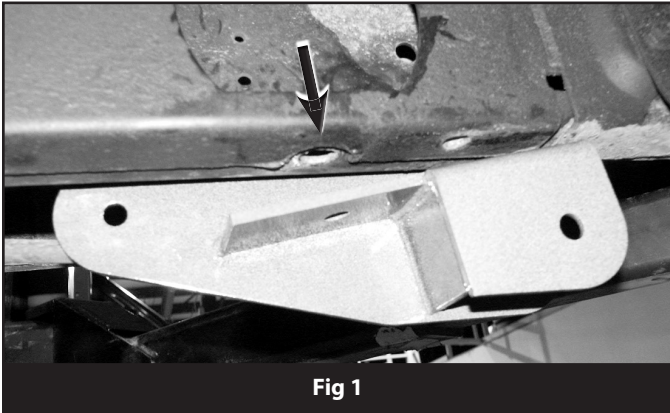
1. Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
2. Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
3. Larger rim and tire 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.

INSTALLATION INSTRUCTIONS

1. Block rear wheels for safety.
2. Mark lower control arm cam location.
3. Remove transfer case skid plate and retain front mounting hardware and rear spacer washers.
4. Place new bracket (01221) on passenger's frame rail with the rear hole aligned with transfer case skid plate bracket mounting hole (Fig. 1). Place transfer case skid plate washer between new bracket and frame rail. Note: 25-7/8" center to center distance (old mounting point to new mounting point)



5. Clamp bracket in place (Fig. 2). Ensure that the outside plate is flush against frame rail.
6. Move lines inside frame rail to a position where they will not be damaged when drilling holes
7. Drill 9/16" holes at bracket mounting points, except skid plate mounting hole.
8. Install 9/16"x1-1/2" bolts, washers, and nuts in holes that have just been drilled. Do not crush lines inside of frame. Torque hardware to 110 ft-lbs
9. Repeat for driver's side (01220).
10. Reinstall transfer case skid plate with OE hardware at front mounting location and 1/2" x 1-3/4" hardware at frame mounting points. Minor grinding required to enlarge hole diameter. Torque hardware to 75 ft-lbs. (Fig. 3)



11. Grease and install bushings (BSDG1-78) into new control arms.
12. Follow appropriate step depending on model year:
 - 94-99: Grease and install 24-1 sleeves into non-pitched end, and 42-1 sleeves into pitched end.
 - 00-01: Grease and install sleeves 24-1 into both ends of control arms.
13. Install 90 degree grease zerk into both ends of control arms.

14. Work on only one side of the vehicle: remove passenger's side control arm and retain hardware.
15. Install new long arm with 'pitched' end located in axle pocket, grease zerks facing down. Follow appropriate step depending on model year: (Fig. 4)
 - 94-99: Use new 5/8" x 4-1/2" bolts, washers, and nuts (#620) in new mounting bracket and OE hardware at axle pocket
 - 00-01: Use all OE hardware.

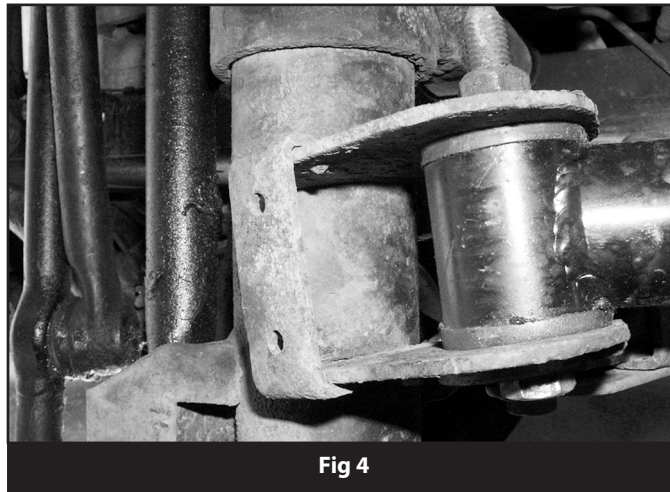


Fig 4

Repeat for driver's side.

16. Mark a line parallel with the frame on the lower control arm pockets and cut old pockets off. (Fig. 5)

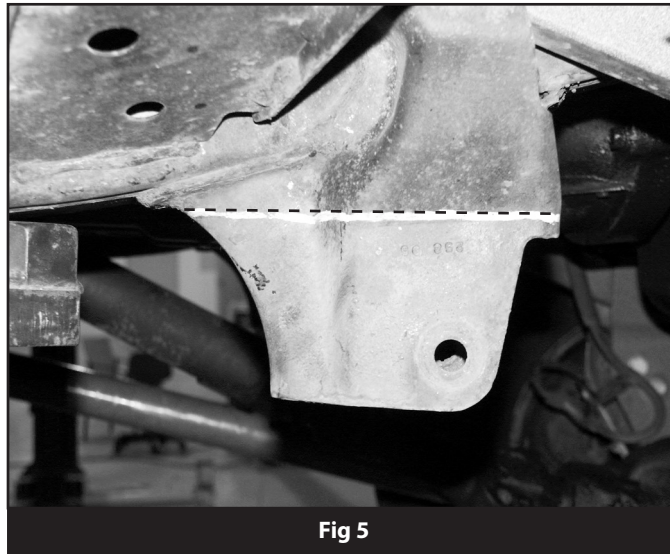


Fig 5

17. Adjust lower control arm cams to original position.
18. With vehicle on the ground tighten lower control arm mounting hardware to 110 ft-lbs
19. Align vehicle
20. Recheck all fasteners after 500 miles and at regularly scheduled maintenance intervals.