

Cognito Motorsports, Inc. 7"-9" Front Lift System for 2011-present GM IFS 2 and 4WD 8 Lug Truck

Requirements

- Maximum wheel backspacing is 5"
- Do not use a tire that is more than 4 1/2" wider than the rim width on a 4 3/4" or more backspaced wheel.
- Set at 7 to 8", suggested tire size is 35" tall and up to 12.5" wide on a 9" wide rim with 4.25 to 5.0" back spacing. Set at 8 to 9", suggested tire size is up to 37" tall and up to 12.5" wide on a 9 to 10" wide rim with 4.5" to 5" back spacing. Call Cognito Motorsports with wheel and tire suggestions if necessary. Trimming of inner fender well and bottom rear of steel fender may be required.
- Follow alignment specs at the end of this instruction set.

Introduction

- Installation requires a qualified mechanic.
- Prior to installation on used vehicles, carefully inspect the vehicle's steering and driveline systems, paying close attention to the tie rod ends, pitman and idler arms, ball joints, and wheel bearings. Also check steering to frame attaching points for stress cracks. The overall vehicle must be in excellent working condition: repair or replace all worn parts.
- Read instructions carefully and study the pictures (if included) before attempting installation.
- Check the parts and hardware packages against the parts list to assure that your kit is complete.
- Secure and properly rack the vehicle on a hoist prior to beginning installation.
- Always wear safety glasses when using power tools.
- Use extreme caution when cutting is required under the vehicle: the factory undercoating may be flammable. Be careful of all fuel lines, fuel tanks, brake lines, and electrical harnesses.
- Front-end alignment will be necessary after completion.
- Exhaust modification may be necessary.
- Drive line(s) modification may be necessary.

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Parts List

- BOX100730
 - 8278, Front Cross member
 - 8279, Rear Cross member
 - 8280, Driver sub frame connector
 - 8281 Passenger sub frame connector
- BOX100731
 - 8273, Driver side spindle
 - 8274, Passenger side spindle
- BOX100732
 - PISK3008, pitman/idler arm support kit
 - HP9040, compression strut hardware pack
 - HP9081, hardware pack
 - HP9118, non torsion drop brackets hardware pack
 - HP9123, sub frame hardware pack
 - 1630, Skid Plate
 - (2) 1633 compression strut frame bracket
 - (2) 8283, compression strut
 - 8284, driver non torsion bracket
 - 8285, passenger non torsion drop bracket
 - 8287, driver bump stop bracket
 - 8288, passenger bump stop bracket
 - (2) 5501, NTD bracket mandrel
 - SBELKHD-1007, sway bar end link kit
 - EBK-1, emergency brake cable extension kit
 - INST7065, instruction set 7065
- BOX100733, 4WD ONLY
 - 1631, Driver-side Differential Mount (needed on 4WD only)
 - 8282, Passenger-side Differential Mount (needed on 4WD only)
 - (2) 5499, Front axle spacer (needed on 4WD only)
 - HP9121, 4WD hardware
 - HP9122, CV axle spacer hardware

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Front End Disassembly

- 1) **Always work on a properly supported vehicle.** With the vehicle on a car hoist, lift the vehicle off of the ground and remove the front wheels.
- 2) Remove torsion bar adjusting screw, Figure 1.



Figure 1: remove torsion bar adjusting bolt

- 3) Slide torsion bar forward into lower control arm, This will allow the torsion bar adjuster keyway to fall out. Repeat this to the other side.
- 4) remove the factory sway bar end links, which connect the sway bar to the lower control arms, from the truck and discard.
- 5) Skip this step for 2WD vehicle. then remove the hub cover and the axle nut and washer using a 1.5/16" socket as seen in Figure 2. unbolt inner cv axle flange from differential then remove cv axles from truck.

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Figure 2

- 6) unbolt factory front shocks from truck and retain the lower mounting hardware.
- 7) Extended brake lines are not needed; the rubber brake line can be pulled through the steel bracket for better fitment. If you are retaining the factory brake lines, skip now to the next step. You can purchase extended brake lines if desired. If installing new brake lines Then remove the front rubber brake line by taking the clip off of the top of the line and unscrewing the fitting. Next, unscrew the bolt on the banjo fitting of the caliper and discard the brake line. Repeat on the other side. Re-assemble the new lines in the opposite manner, being sure that copper crush washers are used on both sides of the banjo fitting on the caliper.
- 8) Unbolt the brake line bracket from the spindle and unfasten the ABS sensor line from the brake line bracket. Remove the brake calipers by removing the 2 bolts fastening the caliper to the spindle; it is easiest to hang the caliper from the front bumper bracket with a bungee cord or something of the like. Now remove the clips from the wheel studs and discard, and then remove the brake rotors by first removing the flat head torx screw. At this time, remove the clips from ALL 4 corners of the vehicle, as aftermarket wheels will not fit with these clips in place, see Figure 3.

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Figure 3 Remove clips from all 4 corners of vehicle. MUST DO for aftermarket wheels.

- 9) Remove the tie rod end nuts on the spindle. Using a pickle fork, or hammer, dislodge tie rod from spindle. Pull down on the tie rod and hit the spindle casting with a hammer to dislodge the taper seat as shown in Figure 4.



Figure 4

- 10) Your vehicle is equipped with an ABS brake system. Unplug the wire sensor from the wire harness terminal located on the side of the frame rail.
- 11) Detach the lower control arms from the spindles. Do this by loosening the nut on the lower control arm ball joint, but leave a few threads engaged. Loosen the 2 large bolts

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holding the lower control arm to the frame. With the control arm and spindle assembly hanging, hit the spindle with a large hammer on the boss that surrounds the lower ball joint stud. This will dislodge the taper seat and free the lower control arm from the spindle, see Figure 5. Remove the lower control arms from the vehicle, along with the torsion bars. be sure not to mix up the torsion bars from front to back or left to right, they must go back into the vehicle the way they came out.

- 12) Next loosen the upper ball joint nut, but leave engaged by a few threads. With the spindle assembly hanging from the upper control arm, hit the spindle with a large hammer on the boss that surrounds the upper ball joint stud. This will dislodge the taper seat and free the upper control arm from the spindle. Remove the spindle assembly from the vehicle and set aside.
- 13) If you purchased, or your kit includes the Cognito upper control arm kit, remove the factory upper control arms at this time and refer to those instructions.
- 14) Skip this step for 2WD vehicle. Remove front differential skid plate and discard, if so equipped. It is steel and located directly under the front differential.
- 15) remove the black plastic air dam from underneath the radiator; this will be re-installed.



Figure 5

- 16) Skip this step for 2WD vehicle. On 4WD models, unplug the black rubber vent tube from the driver side top of the differential, and unplug the wire harness from the front passenger side of the differential. Unbolt the front drive shaft from the differential yolk.

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- 17) Skip this step for 2WD vehicle. unbolt the factory rear cross member from the frame and retain for future use if you must ever return the truck to stock suspension. this cross member is located just underneath the pinion of the front differential.
- 18) Skip this step for 2WD vehicle. Support the front differential with a transmission jack to prepare to lower it from the frame It is best to use a bracket on a transmission jack that will bolt or clamp to the front differential so it will stay fastened to the jack.
- 19) Skip this step for 2WD vehicle. Loosen, but do not remove the two nuts from the studs on the passenger differential mount. then unbolt the driver side differential mount from the frame, leaving the differential mount on the differential. the remove the 2 nuts from the passenger side and lower the differential out of the frame. See Figure 6.



Figure 6

- 20) Skip this step for 2WD vehicle. Now using a reciprocating saw, cut the back of the driver side lower control arm rear frame pocket off as shown in Figure 7. 1" from center of hole horizontally, and 1.5" from center of hole vertically. Then do the same thing on the passenger side lower control arm frame pocket. This allows room for the differential to drop down without hitting the frame. The cut on the bottom is needed due to the nature of the shorter suspension lift, a taller lift would not need this particular cut across the bottom.

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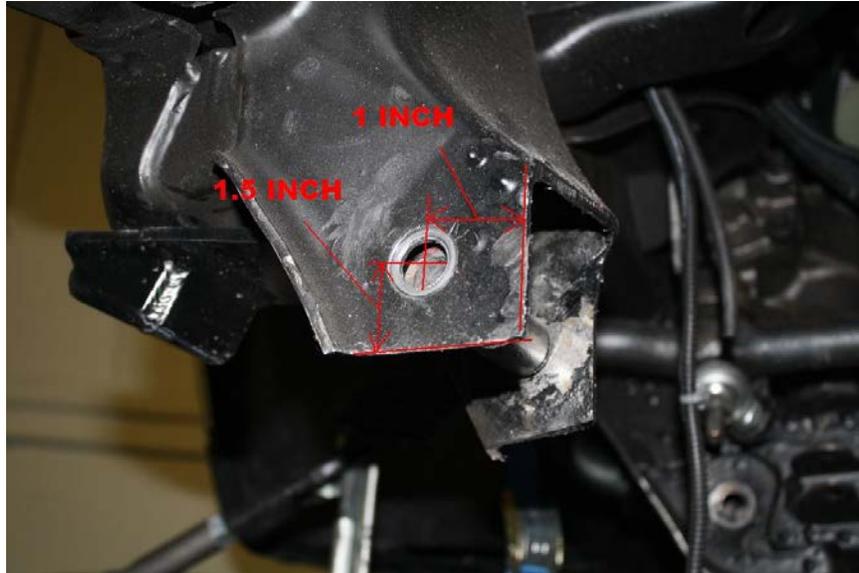


Figure 7

Lift Kit Installation and Front End Re-assembly

- 21) This step will begin the installation process. **Do not tighten any fasteners until instructed to.** Unless otherwise specified, flat washers will always be used under the heads of bolts and under nuts. Therefore, one bolt with one nut will require 2 flat washers.
- 22) Install the Cognito Motorsports Pitman and Idler arm support kit at this time that is included with your lift system and has installation instructions attached to it, although at the end do not re-install the steel skid plate under the differential if it is 4WD, since it is not used on the suspension lift. Re-install the previously removed plastic air dam/skid plate that belongs under the radiator area.
- 23) For 2wd vehicle, skip this step. unbolt the factory driver side differential mount from the differential. Bolt the 1631 Cognito driver differential mount to the differential and then the stock mount to the Cognito mount, using Hardware package 9121, torque bolts to 50 ft.lbs. See Figure 8
- 24) For 2wd vehicle, skip this step. From hardware pack 9121, press the 2 poly bushings and the steel crush sleeve into the 8282 Cognito passenger differential mount, then bolt it onto the front differential with the 9/16" hardware from hardware package 9121, as shown in Figure 9. The differential has slotted holes, center the Cognito bracket onto the slotted holes and torque fasteners to 60 ft.lbs.

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Figure 8



Figure 9

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- 25) For 2wd vehicle, skip this step. Raise the front differential back up into the frame and fasten the passenger Cognito differential mount to the factory passenger differential mount with the factory hardware and torque to 60 ft.lbs. Fasten the factory driver differential mount to the frame with the factory hardware and torque to 60 ft.lbs. Reconnect the rubber vent and the wiring harness. Bolt the driveline back to the front differential yolk, tighten bolts to 20 ft.lbs.
- 26) The rear foam bump stop and retainer must be cut from the frame. Do this by cutting the stitch welds and knocking it off the frame, and then grind the welds off flush with the frame as shown in Figure 10. There is a hole left that was concentric with the bump stop retainer, pointed at in Figure 10, drill that hole out with 25/64" drill bit, it will only cut a tiny bit of material if any.
- 27) install a rivet nut into the hole shown in Figure 10. Do this by opening hardware package 9118, obtain a 1/4" bolt, rivet nut and the hex shaped installation tool. place the tool on the bolt and then thread the rivet nut onto the bolt, flange side first, all the way till it touches the installation tool as shown in Figure 11. Now push the rivet nut through the hole in the frame and use a 3/4" wrench to hold the installation tool from turning while you turn the bolt with a 7/16" wrench or socket, do not use air tools for this, only hand tools. Turn the bolt about 4 full turns until you feel it get tight, this means the rivet nut has crushed and is riveted to the hole in the frame. now back out the bolt and retain the installation tool for the next rivet nut installation.



Figure 10

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Figure 11

- 28) Loosely fasten the 8279 Cognito rear cross member in place using the factory bolts, no nuts needed at this time. If 4wd Note that the previously installed passenger differential mount ear will fit in between the tabs on top of the 8279 rear cross member, go ahead and install the 1/2x3.1/2" hardware at this time to fasten the passenger differential mount to the rear cross member.
- 29) Locate the 8287 driver frame bump stop bracket. The pivot tube on this bracket will be the crush sleeve that fits inside of the 8279 rear cross member, that the mounting bolt will pass thru. Use a jack or have a buddy hold the rear cross member up while you remove the driver side bolt holding the 8279 cross member in place, insert the pivot tube of the 8287 bracket in between the ears of the 8279 cross member and then re-insert the bolt through the frame capturing the 8279 and 8287.
- 30) Swing the 8287 bracket up against the frame and secure it with the 1/4" bolt temporarily into the rivet nut that was just installed. Using the hole in the front of the 8287 as a drill template, drill a 1/4" hole through the frame. Now remove the 1/4" bolt and let the 8287 swing down out of the way. The 1/4" hole that was just drilled must now be drilled out to 25/64". Now install a nut rivet into this hole.
- 31) insert a 1/4" lock washer then a 1/4" flat washer over the 1/4"x1" bolt and fasten the 8287 bracket to the frame into the 2 rivet nuts just installed, torque to 11 ft.lbs.
- 32) Now follow the previous steps and install the 8288 Cognito passenger bump stop bracket
- 33) Now tighten the rear lower control arm bolts to 90 ft.lbs using the factory hardware.

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- 34) Bolt the 8278 Cognito front cross member to the frame with the factory hardware, do not tighten yet, future torque is 90 ft/lbs.
- 35) Locate the 1/4" hardware from HP9123. Loosely fasten the 8280 driver sub frame connector to the Cognito rear cross member with the 1/4" hardware through the clocking hole of the rear cross member to the clocking hole of the rear of the sub frame connector. This will be sure the sub frame connector is aligned properly once the lower control arms are fastened to the Cognito sub frame. Mount the 8281 passenger side sub frame connector in the same fashion.
- 36) Now torque the 8278 front cross member mounting bolts to the frame, 90 ft/lbs.
- 37) from hardware pack 9081, fasten the 1630 skid plate to the 8278 front cross member, on the top side of the skid plate bracket that is part of the cross member. Then fasten the rear of the skid plate to the rear cross member, tighten all 3/8" hardware at this time to 19 ft.lbs. see figure 12.



Figure 12

- 38) with the driver lower control arm on a bench or the floor, insert the 5501 mandrel through the hex hole in the control arm. then attach the 8284 Cognito driver non torsion bracket to the mandrel with the 1/2" x 4.1/2" hardware from package 9118, tighten to 60 ft.lbs. See Figure 13.
- 39) using the hole in the 8284 as a drill template, drill a 1/2" hole thru the pad on the lower control arm. Fasten with 1/2" x 1.3/4" hardware from package 9118, tighten to 60 ft.lbs.

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bolt the polyurethane bump stop to the bracket with a 3/8" flat washer, then 3/8" lock washer, then a 3/8" nut, tighten to 20 ft.lbs.

- 40) Install the 8285, Cognito passenger non torsion drop bracket to the passenger lower control arm using the previous steps.



Figure 13 passenger side shown

- 41) bolt the lower control arms to the Cognito front and rear cross member using the 18mm hardware from hardware package 9123, run the bolts from front to back. do not tighten yet, future torque on these will be 100 ft.lbs. Make sure the bolts pass through the previously installed 8280 and 8281 sub frame connectors.
- 42) If your kit included the Cognito upper control arms, install them now referring to the Cognito Motorsports Upper Control Arm instruction sheet included in that kit.
- 43) Disassemble the bearing hub assembly and brake rotor shield from each of the factory spindles. Also remove the o-ring from the bore of the spindle, careful not to damage it. Clean the mating surfaces of the bearing hub and brake rotor shield thoroughly and transfer all of these parts to the appropriate Cognito spindle making sure that the bore and o-ring groove of the Cognito spindles is clean and free from debris. Torque the bearing hubs to the spindles with the factory bolts to 90 ft/lbs.
- 44) Be sure there is no dirt or powder coat or anything in the 3 tapered holes on each spindle. If there is, clean it or scrape it out now. Now hang the spindle assemblies on the appropriate sides of the vehicle from the ball joint of the upper control arm. Then attach

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the lower control arm ball joint to the Cognito spindle. Tighten all ball joints to the Cognito spindles, 100 ft/lbs for the lower, and very tight with a boxed end wrench on the upper approx. 50 ft/lb.

- 45) All hardware installed up to this point may now be tightened.
- 46) Install the brake rotors and calipers on to the appropriate side Cognito spindle. Install Cognito brake line kit if purchased with suspension kit, tightening fittings to factory specifications.
- 47) locate the 1633 compression strut brackets, the 8283 compression struts, and the HP9040 hardware package. use WD40 or similar lubricant to install the polyurethane bushings into the ends of the 8283 compression struts, and then the steel crush sleeves into the poly bushings.
- 48) Loosely bolt the 1633 bracket to one end of the 8283 compression strut and the other end of the compression strut to the tabs on the rear of the 8279 Cognito rear cross member. Note the orientation of the bracket as shown in Figure 14, the notch end of the bracket points toward the front of the truck. Swing the compression strut bracket up to the frame and be sure the mounting holes of the bracket line up appropriately to the factory frame cross member as shown in Figure 14. If it does not line up, try rotating the compression strut tube 180 degrees and re check alignment till the proper orientation is obtained.
- 49) use the 1633 bracket rear hole as a drill template and drill a 3/8" hole into the flange of the factory cross member, and bolt the bracket to the flange with the 3/8" hardware provided, as shown in Figure 14. Then remove the bolt holding the compression strut tube to the compression strut bracket, let the tube swing down and drill the front 3/8" hole into the factory cross member and fasten with the remaining 3/8" hardware, tightening to 40 ft-lbs of torque.
- 50) Now fasten the compression strut tube to the bracket and the Cognito rear cross member, and tighten all 1/2" diameter hardware to 60 ft-lbs.
- 51) the 2011 trucks have a smaller hole than normal in the transmission cross member that the torsion bar passes thru. The nature of the non torsion bar drop kit makes the torsion bar swing in a bigger arc than stock, and the torsion bar will rub on the transmission cross member on this kit, including our competitors non torsion drop kits. There is not enough miles or days on any of these kits to know whether or not this contact is going to cause a problem. We have not seen any of our competitors with non torsion drop kits mention this problem, but it is at our requirement that you clearance the holes in the transmission cross member so that the torsion bar are not touching under normal operating conditions. use a reciprocating saw to make the cuts as shown in Figure 14 to both the front and back walls of the cross member of each torsion bar hole.

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Figure 14

- 52) use a jack to lift the suspension all the way up until the polyurethane bump stop contacts the Cognito frame bump. Now push the torsion bar all the way back into place with the torsion keyway in place inside the torsion bar cross member, the torsion bar should pass all the way thru the torsion key. Once the torsion bar and torsion key is in place you can let the jack down and the suspension droop.
- 53) On 4WD models, install the stud/spindle end of the front drive axles into the Cognito spindles and fasten with factory hardware. First making sure all mating surfaces are clean, mount the differential end of the drive axles to the differential with the 5499 spacers in between via hardware from package #9122 using a drop of thread locker on the first threads of each bolt. Fasten all hardware mentioned in this step, axle nut to 120 ft/lbs. and spacer bolts to 40 ft/lbs.
- 54) from the front of the truck, slide the torsion bars into the hex holes of the Cognito brackets as seen in Figure 16.
- 55) If you purchased the Cognito tie rod upgrade kit, follow those directions in this step, otherwise reattach the factory tie rod end to the Cognito spindles to 50 ft.lbs. Make sure all fasteners are tight at this time.

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Figure 15



Figure 16

56) If using the stock torsion bar adjuster keys, they must have a modification so that the adjuster bolt does not slip off of the adjuster key. If you have purchased Cognito

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aftermarket torsion bar adjuster keys you will see that this feature is already on these parts. See Figures 17-19 to add the pocket to the stock keyways on the vehicle.

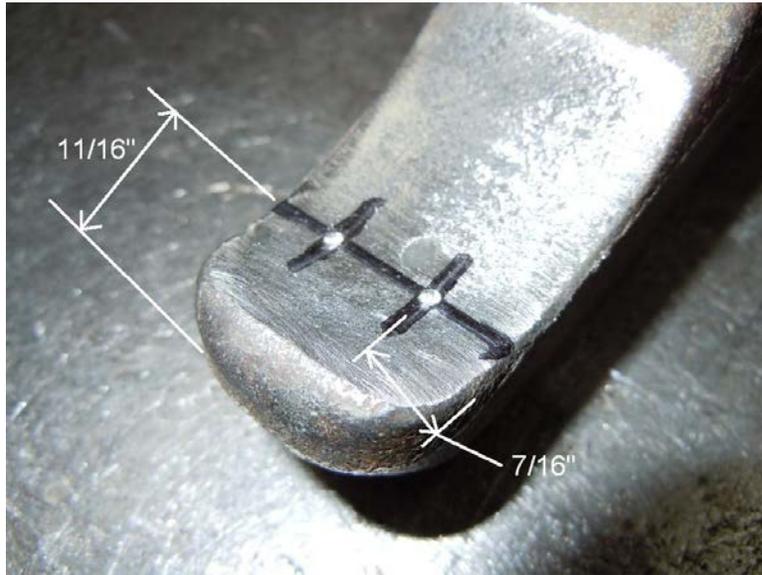


Figure 17: Center punch 2 spots, 11/16" from the end and 7/16" from each side.



Figure 18: using a drill motor and 1/2" drill bit, drill only 1/8" deep from the tip so create 2 counter sink spots.

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Figure 19: Use a carbide grinding bit to connect the 2 countersink spots in order to create an oval shaped pocket as shown. Now ready to install.

- 57) Install the SBELKHD-1007 sway bar end link kit now per the instructions included in that kit.
- 58) Be sure the brake lines and ABS sensor wires are routed and restrained as to avoid any rubbing and binding.
- 59) Load the torsion bars and replace the adjuster nut. Unload bars and insert the adjuster screw into the nut and adjust to factory specifications.
- 60) Install the front shocks, if you are using the Cognito Upper Control Arm Kit then you should be using the shock extender kit SEK-2011-8-1 to take advantage of the extra 2" wheel travel available. If you are using the stock upper control arms, then just using the Cognito spec Fox or Bilstein shocks will net you an extra inch of down travel over stock. Do not use any shock spacer if not using the Cognito upper arm kit.
- 61) At this point, inspect all hardware to ensure everything is properly tightened.
- 62) Some models may require front drive-line modification or replacement. Consult Cognito Motorsports about drive-line requirements. If you plan to drive faster than 30 MPH in 4WD, you MUST use the CV front driveshaft offered by Cognito Motorsports. Otherwise the stock front driveline will vibrate and damage the front differential and transfer case.
- 63) The front pinion angle is changed on 4WD models, check service manual and add 1/2 extra qt of fluid to the front differential to ensure proper fluid level. The rear differential pinion angle may also be changed if an axle shim or tapered lift block is used. If so, add 1 extra qt of fluid to the rear differential, see service manual.

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- 64) Install front wheels according to factory specifications. Please note the wheel requirement stated at the beginning of this instruction set.
- 65) Rear lift: If you purchased new spring packs, replace the factory spring packs and use factory hardware and torque to factory specifications. The large bushing end of the spring goes toward the front of the vehicle. Use appropriate length u-bolts and torque them to 110 ft-lbs if they are 3/4". If block and u-bolt was purchased refer to those instructions to install now. If the emergency brake cable is too tight due to the lift, the included EBK-1 emergency brake cable extension kit must be installed now, please refer to those instructions. If the e-brake is long enough, no need to install the extension kit. Install rear shocks, and then install rear wheels and shocks.
- 66) If included, install rear brake lines. If the rear axle has wheel speed sensors and your package included WSE-R-1, this is to extend the sensor wires. Extend the sensor wires and route them along with the brake lines for the cleanest installation.
- 67) Adjust the torsion bars so that the front ride height is appropriate, and so that the truck is even left to right side. Do not over crank the torsion bars to try and gain too much height. Always lift the front of the truck so the wheels droop down before turning the torsion adjuster bolt tighter. Then drive the truck briefly to settle the height before measuring.
- 68) Setting the ride height, Record measurement (A) in chart below. Subtract 2" from (A) to determine maximum ride height (B). This will insure the proper amount of available down travel. **NOTE:** Maximum ride height is not required if you reach desired ride height below measurement (B). It is a good idea to record your final ride height after adjustments (C).



Figure 3: Distance between top of tire and fender lip.

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Record Measurement

Full Drop Out (A)	
Subtract 2"	-2"
Max Ride Height (B)	
Finished Ride Height (C)	

69) Have headlights readjusted to proper settings.

70) **Have the vehicle professionally aligned to the following specifications:**

Caster, +2.0 to +4.5 degrees with a caster split .9 degrees higher on the passenger side.

Camber, 0 to + .2 degrees.

Toe settings, .1 degree toe in on each side.

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Cognito Motorsports

Limited Lifetime Warranty

Cognito Motorsports warrants, to the original retail purchaser, that its suspension products are free from defects in workmanship and material for as long as the purchaser owns the vehicle on which the product was originally installed. Cognito Motorsports does not warrant the product for finish, alterations, modifications, and/or original installation contrary to specifications of Cognito Motorsports. Cognito Motorsports suspension products are not designed nor intended to be installed on vehicles used in race applications or for racing purposes or for similar activities involving abnormal abuse other than the vehicle was originally designed to handle or endure. (A "RACE" is defined as any contest between two or more vehicles, and/or contest of one or more vehicle against the clock, whether or not such contest is for a prize.)

This warranty is for a one-time replacement of each Cognito Motorsports product and does not cover any part that Cognito Motorsports has previously replaced under this warranty. This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warranty are sales outside of the United States of America. Alterations to the finish of the parts including but not limited to painting, powder coating, plating, and/or welding will void all warranties. Cognito Motorsports obligation under this warranty is limited to the repair or replacement, at Cognito Motorsports option of the defective product. Any and all costs of removal, installation or re-installation, freight charges, incidental or consequential damages are expressly excluded from this warranty.

This warranty excludes the following items: bushings, bumpstops, tie-rod ends, limiting straps, and heim joints. These parts are subject to wear and are not considered defective when worn. They are warranted for 60 days of purchase for defects in workmanship. Cognito Motorsports suspension components must be installed as a complete system. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty. This warranty shall not apply to any product that had been subject to accident, negligence, alteration, abuse, or misuse. Cognito Motorsports does not warrant products not manufactured by Cognito Motorsports. Cognito Motorsports reserves the right to supersede, discontinue, or change the design, finish, part number and/or application of parts when deemed necessary by Cognito Motorsports without written notice, and in the sole and absolute discretion of Cognito Motorsports.

Warranty Claims

All warranty claims must be submitted through the original company of purchase. All claims must be shipped back to the original company of purchase with an approved RMA number listed as a reference on the shipping label and clearly printed on two opposing sides of the package(s); product in question must be inspected by Cognito Motorsports before replacement parts are shipped out.

Return Policy

Cognito Motorsports has a no refund return policy. Under special circumstances, returns might be accepted with prior written approval. All returned product will be shipped freight prepaid. Product returned is subject to a 25% restocking fee. No returns will be accepted after 30 days upon receipt of product.

Product Consumer Safety and Warning

The installation of this kit will modify the suspension of your vehicle and may cause it to handle significantly different than a factory equipped vehicle. Installing larger tires with modified suspension and increased ground clearance will significantly alter the handling characteristics of the vehicle, and may result in increased braking distances as well as changes in vehicle maneuverability and handling compared to the factory equipped vehicle. As with any vehicle, extreme caution and care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts and drive safely, recognizing the reduced speeds and specialized driving techniques is required.

This suspension system will not strengthen nor reinforce the stock frame of the vehicle, nor will it increase rollover protection. It is necessary to periodically inspect all suspension and drive train components for tightness of fit or any damage. Installation of these parts will modify the height of the vehicle and will raise the center of gravity. Altered height modifications and off-road operation may increase your vehicle's susceptibility to roll over conditions and may cause serious injury or death. Many states regulate the height modification to each vehicle. Check the laws in your state for exact specifications. Height modifications may affect the reaction, ride, handling, and wear factor of your vehicle's components.

Failure to drive this vehicle safely may result in injury or death! Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications and combinations of modifications are not recommended, unsafe, and may not be permitted in your state. Consult your vehicle owner's manual, the instructions accompanying this product, and your state laws before undertaking these modifications. The owner of the modified vehicle and the qualified mechanic required to install this product are responsible for the legality and safety of the vehicle being modified.