



**SUSPENSION INC.**

## Installation Instructions 69-3414

### **WARNING TO END USER, INSTALLER AND SELLER OF THIS PART!**

**By installing this part you are accepting full responsibility and liability for proper wheel and tire fitment after installation.**

It is the installer's responsibility to properly align the vehicle before use. Using a wheel tire fitment combination that results in any contact from the tire and/or wheels with the new installed ReadyLIFT upper control arm or inner fenders at any point including full steering lock will void the ReadyLIFT warranty and may result in failure of the ball joints. **Failure to do so may cause damage to your vehicle and/or injury or death to the driver and passengers.**

**A NEW REPLACEMENT PART WILL BE SENT TO YOU IMMEDIATELY**

### **Limited Lifetime Warranty**

This unique product warranty proves our commitment to the quality and reliability of every product that ReadyLIFT manufactures. The ReadyLIFT product warranty only extends to the original purchaser of any ReadyLIFT product, if it breaks, we will give you a new part. Warranty does not apply to discontinued parts. Our Limited Lifetime Warranty excludes the following ReadyLIFT items; bushings, bump stops, ball joints, tie rod ends, heims joints and shock absorbers. These parts are subject to wear and are not considered defective when worn. They are warranted for 12 months from the date of purchase for defects in workmanship. **This product warranty is voided if the vehicle is not aligned after kit installation and proper maintenance is routinely done.**

Product purchased directly from ReadyLIFT has a 30 day return policy on uninstalled products from the date of purchase. Uninstalled product returns must be in the original ReadyLIFT packaging. **Returns without RGA# will be refused.** Contact ReadyLIFT directly about any potentially defective parts prior to removal from vehicle. If the part in question is deemed warrantable an RGA# will be assigned and can be returned for repair or replacement. Replacement parts required prior to warranty claim completion must be purchased. Upon receipt and verification of deemed warranty parts claim, a credit or refund can then be processed to complete warranty claim transaction.

ReadyLIFT products are **NOT** intended for off-road abuse. Any damage or failure as a result from off-road abuse voids the warranty of the ReadyLIFT product. ReadyLIFT is **NOT** responsible for any subsequent damages to any related vehicle parts due to misuse, abuse, improper installation, or lack of maintenance. Furthermore, ReadyLIFT reserves the right to change, modify or cancel this warranty without prior notice.



## Installation Instructions 69-3414

**Please read Instructions thoroughly and completely before beginning installation.  
Installation by a certified mechanic is recommended.**

**ReadyLIFT Suspension Inc. is NOT responsible for any damage or failure resulting from improper installation or wheel and tire fitment.**

**Safety Warning:** Suspension systems or components that enhance the on and off-road performance of your vehicle may cause it to handle differently than it did from the factory. Extreme care must be used to prevent loss of control or vehicle rollover during abrupt maneuvers. Always operate your vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Failure to drive safely may result in serious injury or death to driver and passengers. Driver and passengers must ALWAYS wear your seat belts, avoid quick sharp turns and other sudden maneuvers. ReadyLIFT Suspension Inc. does not recommend the combined use of suspension lifts, body lifts, or other lifting devices. You should never operate your vehicle under the influence of alcohol or drugs. Constant maintenance is required to keep your vehicle safe. Thoroughly inspect your vehicle before and after every off-road use.

**Installation Warning:** All steps and procedures described in these instructions were performed while the vehicle was properly supported on a two post vehicle lift with safety jacks. Use caution during all disassembly and assembly steps to insure suspension components are not over extended causing damage to any vehicle components and parts included in this kit. Included instructions are guidelines only for recommended procedures and are not meant to be definitive. Installer is responsible to insure a safe and controllable vehicle after performing modifications.

ReadyLIFT Suspension Inc. recommends the use of an OE Service Manual for model/year of vehicle when disassembly and assembly of factory and related components. Unless otherwise specified, tighten all bolts and fasteners to standard torque specifications listed within the OE Service Manual, or as referenced in the torque specification list provided in these instructions.

Suspension components that use rubber or urethane bushings should be tightened with the vehicle at normal ride height. This will prevent premature wear or failure of the bushing and maintain ride comfort. Larger tire and wheel combinations may increase leverage on suspension, steering, and related components. 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 ride height. Always measure the vehicle ride height prior to beginning installation.

### Vehicle ride height chart

<b>Driver Front:</b>	<b>Driver Rear:</b>	<b>Pass. Front:</b>	<b>Pass. Rear:</b>
<u>Stock</u>   <u>Lifted</u>	<u>Stock</u>   <u>Lifted</u>	<u>Stock</u>   <u>Lifted</u>	<u>Stock</u>   <u>Lifted</u>

Bolt Size Millimeters	Torque Specs in FT/LB	
	Metric Grade 8.8	Metric Grade 10.9
6mm	6	8
8mm	16	22
10mm	40	45
12mm	54	70
14mm	89	117
16mm	132	175
18mm	182	236

Bolt Size SAE	Torque Specs in FT/LB	
	Grade 5	Grade 8
5/16	15	20
3/8	30	35
7/16	45	60
1/2	65	90
9/16	95	130
5/8	135	175
3/4	185	280

## Installation Instructions 69-3414

### Bill of Materials

Description	Qty
Tubular Upper Control Arms	2
M6 Flat Washer (UCA)	2
M6 Nyloc Nut (UCA)	2
Grease Pack (UCA)	1
Steel Strut Extension 54mm Tall	2
M10-1.25 Serrated Flange Nuts	6
M10-1.25x55mm 10.9 Hex Head Bolt	4
M10 Flat Washer	8
M10-1.25 C-Lock Nut	4
Diff Drop Spacer Front .955" Tall	1
Diff Drop Spacer Rear .750" Tall	1
M12-1.25 x 120mm	4

Description	Qty
M12-1.25 Stover Nut	4
M12 Washers	8
Front Differential Skid Plate	1
3" Block and U-bolt Kit	1
Rear Shock Extension	2
M14-2.0 x 75mm Hex Head Bolt 10.9	2
M14-2.0 C-Lock Nut	2
M14 Washers	4
8" Zip Ties	4
M6-1.25x20mm Skid Plate Bolts	1
M6-1.25 Nut	1
Skid Plate Washer 23mm OD 7mm ID	2

The Bill of Materials represents the component contents of this kit. All hardware is of the highest grade and the components are manufactured to exacting specifications for a trouble free installation. Use the attached torque specifications chart when final tightening of the nut and bolts are done.



1. Place vehicle on level ground.



2. Raise vehicle and support vehicle to perform work.

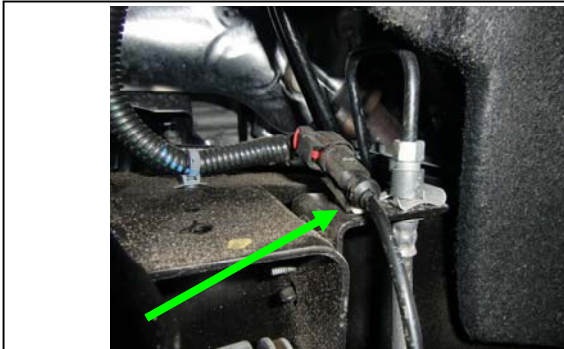


3. Disconnect battery connections.



4. Remove plastic air dam.

## Installation Instructions 69-3414



5. Locate ABS connections, disconnect and unhook.



6. Unbolt brake line from upper control arm, unclip the ABS line.



7. Disconnect sway bar & swing it out of the way.



8. Remove caliper & secure to vehicle out of the way.



9. Loosen tie rod and remove from knuckle.



10. Remove bolts from inner CV drive flange.



11. Loosen & separate ball joint from knuckle.



12. Remove nuts from the top of the struts.

## Installation Instructions 69-3414



13. Loosen and remove bolts from lower strut mount.



14. Remove strut from vehicle. Repeat 5-14 for other side.



15. Mark alignment cams & note direction/location of hardware.



16. Remove hardware and arm. Repeat 15 & 16 on other side.



17. Loosen and remove front drive shaft bolts and straps.



18. Slide drive the shaft back and out of the way .

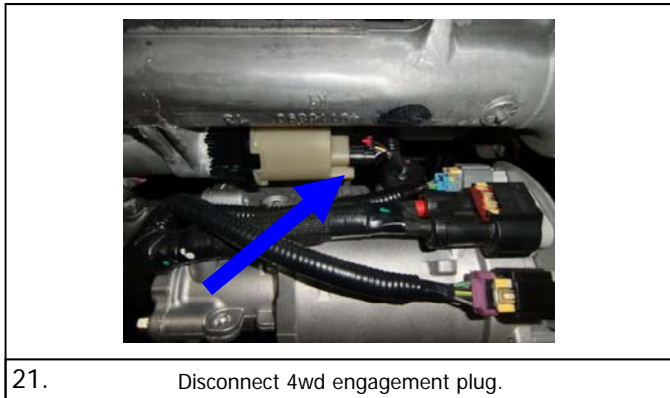


19. Remove plastic air dam tin mounting brackets.



20. Loosen and remove cross member.

## Installation Instructions 69-3414



21. Disconnect 4wd engagement plug.



22. Support front differential.



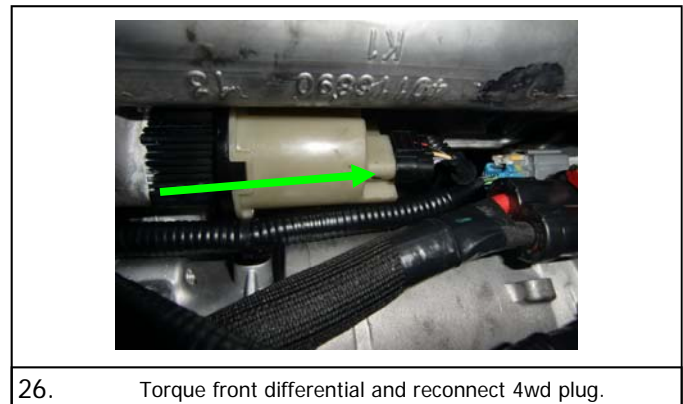
23. Remove stock mounting hardware at all 4 mounting points.

Lower front differential until you can insert the differential spacers. (We recommend doing one side at a time to keep the differential from becoming cumbersome when inserting the differential spacers)  
The large spacer goes toward the front of the truck and shorter spacer goes toward the rear of the vehicle. Once the spacers are in place install new differential hardware provided.

24.



25. Front Spacer = Long and Rear Spacer = Short



26. Torque front differential and reconnect 4wd plug.



27. Reinstall the frame cross member.



28. Install Readylift strut extension on both struts and torque.

## Installation Instructions 69-3414




29. Install ReadyLIFT Tubular Control Arm.


Reinstall OEM hardware into its original location noting original direction of cam bolts and marks done at when you removed them.

(The plastic OEM Cam locks must be removed for the vehicle to be aligned properly)

30.



31. Install strut with spacer leaving nuts loose.



32. Raise lower control arm to attach strut & torque.


When attaching strut to vehicle be sure to use provided hardware (serrated flange nuts on top and self locking nuts with washers on bottom with M10.9 bolts.)

The OEM lower nut clips and bolts will not be used. Doing so will cause damage to your vehicle.


33.



34. Once the lower is tightened, torque the top nuts.



35. Connect upper control arm to knuckle and torque.



36. Re-attach the tie rod and torque.

## Installation Instructions 69-3414



37. Re-attach caliper & torque. **Repeat 29-37 on other side.**



38. Re-attach front drive shaft using OEM bolts and straps.



39. Reconnect Inner CV flange torque.



40. Reconnect brake line to control arm using new hardware.



41. Reconnect ABS lines and attach in factory location.



42. Install new ReadyLIFT skid plate.



43. Re-attach passenger side sheet metal for air dam mount.

The factory air dam will require minor cutting and trimming to fit. We recommend using a paint pen or permanent marker to layout your cut lines. **When cutting the air dam measure twice and cut once!** We have laid out our cut lines in Blue paint pen. Our cut lines are intended to be a guideline. More trimming may be needed. Test fit air dam until you are satisfied with fit and finish.

44.



## Installation Instructions 69-3414



45. Cut lines marked on air dam.



46. Air dam cut to fit.



47. Test fit to ensure fit and finish.



48. Use provided hardware to complete install of the air dam.



49. Front install is complete.

### Rear Block Instructions

Place vehicle on level ground secure vehicle from rolling and raise the rear of the vehicle by the frame so the rear axle can hang down.

**For steps 51-65 complete 1 step then repeat the step on the other side of the vehicle before moving to the next step.**

50.



51. Unhook ABS line located on the rear of the frame.



52. Support the axle, remove the shock from the lower mount.

## Installation Instructions 69-3414



53. Remove U-Bolts, axle plate (**one side at a time**).



54. Lower axle and remove factory blocks.



55. Install the ReadyLIFT blocks, **short side** facing front.



56. Raise axle to engage lift blocks and centering pins.



57. Install new hardware and factory axle plate.



58. Remove shocks from upper mount.



59. Install shock extensions to the top of the shocks (**for OEM shocks only**).



60. Install shock with extension into upper mount (leave Loose).

## Installation Instructions 69-3414



61. Install shock into lower mount and tighten.



62. Once lower mount is tight torque the top shock mount.



63. Lubricate the ABS line and slide rubber sleeve up to allow the wire to be re-installed in to frame clip.



64. Re-clip the ABS line back into place.



65. Using the zip ties provided attach the ABS line to the U bolt's



66. You may need to bend the upper and lower brake line brackets to allow enough slack in the line at full droop.



67. Reconnect Battery and the installation is complete.

Once the installation is completed we recommend to double check all work preformed.

\* Turn the steering wheel from steer lock to lock to ensure the steering components are functioning properly and wheels and tires do not come in contact with control arms or inner fenders.

\* Press the brakes several times to ensure the brake system is functioning properly.

\* All vehicles must be aligned after any alteration to the vehicles suspension system.

\* Torque wheels to manufactures specifications. Once the vehicle is on the ground verify tire pressures before the vehicle is driven.



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#### **Final Checks & Adjustments**

**Post Installation Warnings:** Once the vehicle is lowered to the ground, check all parts which have rubber or urethane components to insure proper torque. Torque wheels to factory specs. Move vehicle backwards and forwards a short distance to allow suspension components to adjust. Turn the front wheels completely left then right and verify adequate tire, wheel, brake line, and ABS wire clearance. Test and inspect steering, brake and suspension components for tightness and proper operation. Inspect brakes hoses and ABS lines for adequate slack at full extension. Failure to perform the post inspection checks may result in vehicle component damage and/or personal injury or death to driver and/or passengers and void your warranty. Test drive vehicle and re-check the torque of all fasteners and re-torque wheels on vehicle.

**Vehicle Handling Warning:** Vehicles with larger tires and wheels will handle differently than stock vehicles. Take time to familiarize yourself with the handling of your vehicle.

#### **Wheel Alignment/Headlamp Adjustment:**

It is **mandatory** to have a proper and professional wheel alignment performed by a certified alignment technician. Align the vehicle to factory specifications. It is **mandatory** that your vehicle alignment be checked after any off-road driving. In addition to your vehicle alignment, for your safety and others, it is necessary to check and adjust your vehicle headlamps for proper aim and alignment.

#### **Vehicle Re-Torque and Safety Inspection:**

Upon completion of all services and adjustments performed on your vehicle, and within 50 miles of driving, check to ensure all fasteners and hardware are properly torqued to specification as noted in the vehicles factory service manual or the torque chart included.