



Part # 32906 fits 2013 - 2018 models
Part # 32907 fits 2019 - 2020 models

Part #	Description	Qty.
*32906-01	Sensor link rods (pair) 13 - 18	1
**32907-01	Sensor link rods (pair) 19 - 20	1
32902-01	Front strut spacer	2
D2PNB	Hardware bag	1
32906INST	Instruction manual	1

* - Included in the Part # 32906 only
** - Included in the Part # 32907 only

Congratulations on your selection to purchase a Tuff Country EZ-Ride Suspension System. We at Tuff Country EZ-Ride Suspension are proud to offer a high quality product at the industries most competitive pricing. Thank you for your confidence in us and our product.

The Tuff Country EZ-Ride Suspension product safety label that is included in your kit box must be installed inside the cab in plain view of all occupants.

Make sure to use thread locker or loctite on all new and stock hardware associated with the installation of this suspension system.

After the completion of the installation, a front end alignment is required.

IMPORTANT INFORMATION:

Due to the complexity of the Ram's factory air ride system, we highly recommend using only an experienced suspension specialist for installation. Tuff Country is not liable for any costs associated with problems resulting from improper installation of this system.

All pressurized air suspension components contain high pressure air (up to 220 psi). Extreme caution must be used during the installation of this system to prevent component damage or personal injury.

Failure to disable the air suspension system prior to installation can result in excessive leakage from the system and damage to the air compressor assembly. Failure to prevent and check for leaks or restrictions in the air line connections can result in damage to the air system compressor, and set error codes, and lock the ASCM. Only the RAM dealership has the ability to access and reset the ASCM. The recharging of the sys-

Installation Manual

Ram 1500 4x4 front lift kit- with ride height sensor links

Part # 32906 & 32907

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tem may also be required as well as in depth diagnostics and recalibration of the system to restore proper function.

Please be aware that some Dodge Ram owners may experience a vibration in the front end or a violent shaking vibration of the front wheels when going over a bump at certain speeds. This is due to the front differential and suspension when Dodge Ram trucks are in 4x4 mode. These two symptoms are often lumped together and called a "steering oscillation" however it is actually two different problems with the Ram Truck. The 4HI mode vibration is a vibration or shudder that occurs when accelerating in 4x4 high mode. This symptom appears isolated to 1500 non-Mega Cab model trucks and only when in 4-hi mode. Dodge could not discover why their stock trucks would do this for some customers and not others, so the final official statement from Dodge was that there is no problem and that all of the new Rams will shudder or shake when in 4x4 high.

Therefore, after installing this kit on your Dodge Ram truck, if you experience either of the two symptoms mentioned above, Tuff Country recommends two options. 1). Remove the kit from the vehicle and send it back to the company you purchased it from for a full refund or 2). Install High angle CV joints that will stabilize the factory vehicles issues. Important customer information:

Important customer information:

Tuff Country EZ-Ride Suspension highly recommends that a qualified or a certified mechanic performs this installation.

It is the responsibility of the customer/installer to wear safety glasses at all times when performing this installation.

It is the customers/installers responsibility to read and understand all steps before installation begins. If you have any questions or concerns, please contact our technical department @ (801) 280-2777. Also, the OEM manual should be used as a reference guide.

This vehicles reaction and handling characteris-

tics may differ from standard cars and/or trucks. Modifications to improve and/or enhance off road performance may raise the intended center of gravity. Extreme caution must be utilized when encountering driving conditions which may cause vehicle imbalance or loss of control. **DRIVE SAFELY!** Avoid abrupt maneuvers: such as sudden sharp turns which could cause a roll over, resulting in serious injury or death.

It is the customers responsibility to make sure that a re-torque is performed on all hardware associated with this suspension system after the first 100 miles of installation. It is also the customers responsibility to do a complete re-torque after every 3000 miles or after every off road use.

After the original installation, Tuff Country EZ-Ride Suspension also recommends having the alignment checked every 6 months to ensure proper tracking, proper wear on tires and front end components. Tuff Country EZ-Ride Suspension takes no responsibility for abuse, improper installation or improper suspension maintenance.

Limited lifetime warranty

Notice to all Tuff Country EZ-Ride Suspension customers: It is your responsibility to keep your original sales receipt! If failure should occur on any Tuff Country EZ-Ride Suspension component, your original sales receipt must accompany the warranted unit to receive warranty. Warranty will be void if the customer can not provide the original sales receipt. Do not install a body lift in conjunction with a suspension system. If a body lift is used in conjunction with any Tuff Country EZ-Ride Suspension product, your Tuff Country EZ-Ride Suspension WARRANTY WILL BE VOID. Tuff Country Inc. ("Tuff Country") suspension products are warranted to be free from defects in material and workmanship for life if purchased, installed and maintained on a non-commercial vehicle; otherwise, for a period of twelve (12) months, from the date of purchase and installation on a commercial vehicle, or twelve thousand (12,000) miles (which ever occurs first). Tuff Country does not warrant or make any representations concerning Tuff Country Products when not installed and used strictly in accordance with the manufacturer's instructions for such installation and operation and accordance with good installation and maintenance practices of the automotive industry. This warranty does not apply to the cosmetic finish of Tuff Country products nor to Tuff Country products which have been altered, improperly installed, maintained, used or repaired, or damaged by accident, negligence, misuse or racing. ("Racing is used in its broadest sense, and, for example, without regards to formalities in relation to prizes, competition, etc.) This warranty is void if the product is removed from the original vehicle and re-installed on that or any other vehicle. This warranty is exclusive

and is in lieu of any implied warranty of merchantability, fitness for a particular purpose or other warranty of quality, whether express or implied, except the warranty of title. All implied warranties are limited to the duration of this warranty. The remedies set forth in this warranty are exclusive. This warranty excludes all labor charges or other incidental or consequential damages. Any part or product returned for warranty claim must be returned through the dealer of the distributor from whom it was purchased. Tuff Country reserves the right to examine all parts returned to it for warranty claim to determine whether or not any such part has failed because of defect in material or workmanship. The obligation of Tuff Country under this warranty shall be limited to repairing, replacing or crediting, at its option, any part or product found to be so defective. Regardless of whether any part is repaired, replaced or credited under this warranty, shipping and/or transportation charges on the return of such product must be prepaid by the customer under this warranty. Before installation begins, Tuff Country EZ-Ride Suspension highly recommends that the installer performs a test drive on the vehicle. During the test drive, check to see if there are any uncommon sounds or vibrations. If uncommon sounds or vibrations occur on the test drive, uncommon sounds or vibrations will be enhanced once the suspension system has been installed. Tuff Country EZ-Ride Suspension highly recommends notifying the customer prior to installation to inform the customer of these issues if they exist.

This Suspension kit comes with (1) installation manual and some post installation procedure literature and it is the installers responsibility to make sure that the customer receives the post installation procedure literature. If a customer would like a copy of the installation manual, please have them visit our website at www.tuffcountry.com. Have them go to the customer care section to download these instructions. If you have any questions, please feel free to call us at (801) 280-2777.

Tuff Country Ez-Ride Suspension recommends using a 295/60/R20 x 9" wheel and an offset of +18. If wider tires are used, offset wheels may be necessary and trimming may be required. OE wheels can be used but are not recommended with tires over 11.5" wide.

Our tire and wheel fitments are only a guideline. Different production times or tolerances will vary and this size should only be used as a starting point. Each vehicle is different and will need to be treated as such.

Recommended tool selection:

Torque wrench
Standard socket set
Standard wrench set
Metric socket set
Metric wrench set
Tape Measure

With the vehicle sitting on a level surface and under its own weight, record ride height measurements by measuring from the center of the wheel hub up to the leading edge of the front fender. Record measurements below.

Pre Installation Measurements:

Driver side front : _____

Passenger side front : _____

Post Installation Measurements:

Driver side front : _____

Passenger side front : _____

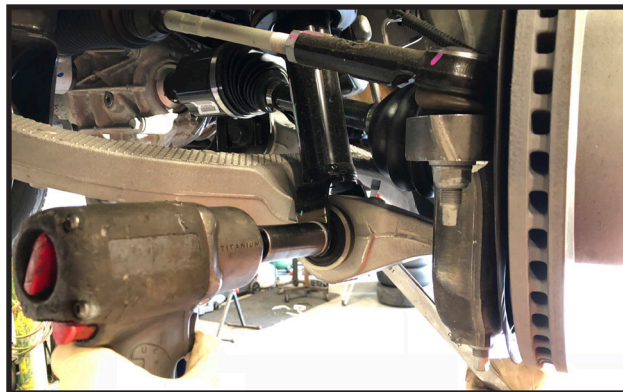
****Photos may vary slightly depending on the year of the vehicle****

1. To begin installation, park on level ground and put the vehicle in **NORMAL MODE**. Turn on **JACK MODE**; Settings, Suspensions, Jack Mode, then turn truck off. block the rear tires of the vehicle so that the vehicle is stable and can't roll backwards. Safely lift the front of the vehicle and support both the driver and passenger side frame rail with jack stands. Remove the tires and wheels from both sides.

2. Remove the lower swaybar endlink mounting hardware at the lower control arm and save the hardware.



3. Remove the lower strut mounting hardware at the lower control arm and save the hardware.

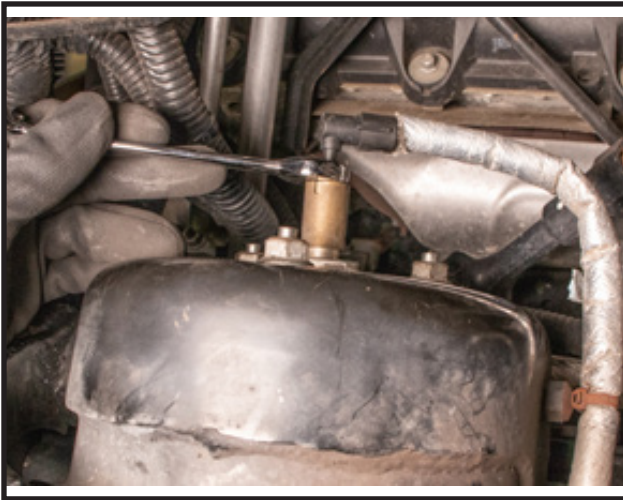


4. Carefully remove the lower control arm mounting/adjusting bolts so that the lower control arm can be dropped out of its frame pockets. **Special Note: once these bolts are removed, the lower control arm and front suspension will be able to drop out quite a bit, be careful not to over extend any front brakelines or ABS wires.**





6. Loosen and remove the air fitting from the top of the strut.



7. Move to the upper strut mounting hardware and remove the 3 nuts. Carefully lower the strut assembly out of the vehicle.



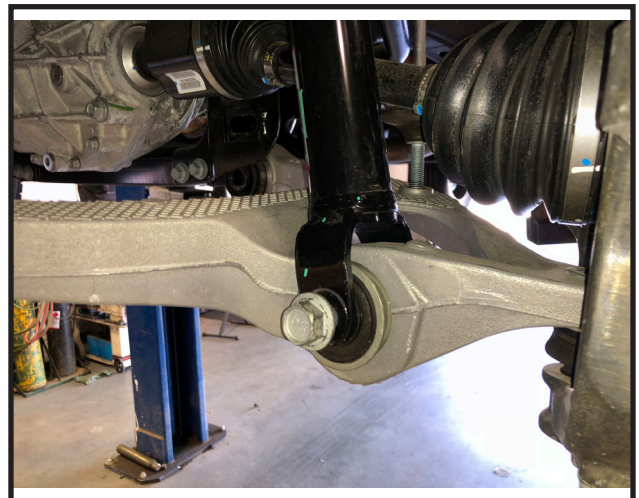
8. Locate a new front strut spacer and install it on the top of the OE strut. Secure the new spacer to the strut using the OE hardware. **Torque to 45 ft lbs**



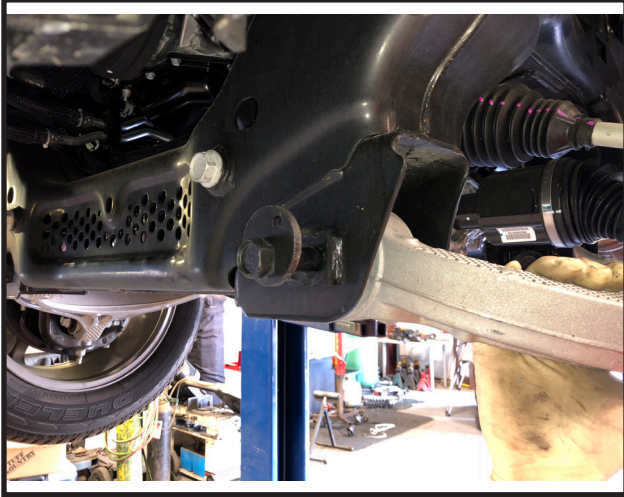
***Photo above is shown with non-air ride strut. ***

9. Locate (3) 3/8" nylock nuts, and (3) 5/16" USS flat washers from hardware bag D2PNB. Working on the driver side, install the strut back into the vehicle and start the new hardware. Only hand tighten at this time.

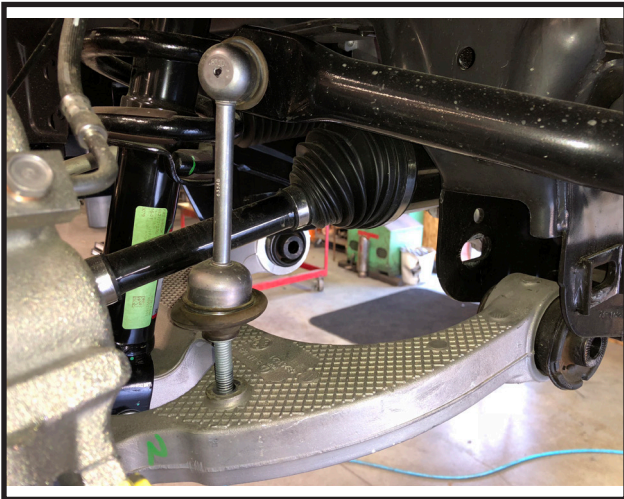
10. Raise the lower control arm up so that the lower strut mounting bolt can be re-installed but not tightened yet.



11. Re-install the lower control arm mounting/adjusting bolts and do not tighten yet.



12. Re-install the sway bar endlink lower mount and secure using the OE hardware. Torque to **40 ft lbs.**



13. Move back to the 3 upper strut mounting hardware and torque to **30 ft lbs.**

14. Re-install the Air fitting on the top of the strut.

15. Re-install the tires and wheels and carefully lower the vehicle back down to the ground.

16. Jounce the vehicle to get the suspension to settle at its new ride height.

17. Move back to the lower control arm mounting hardware and torque to **125 ft lbs. Set them in the center and they will be adjusted properly at the alignment shop.**

18. Move back to the lower strut mounting hardware and torque to **150 ft lbs.**

SENSOR LINK INSTALLATION

2013-2015 - Both ends of the OE link can be popped off from the ball studs

2016-2018 - OE link can be popped off of upper control arm mount, but the lower mount on the sensor arm must be unbolted.

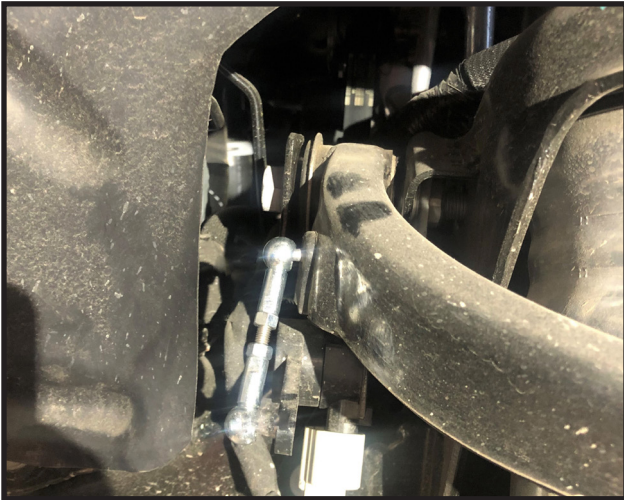
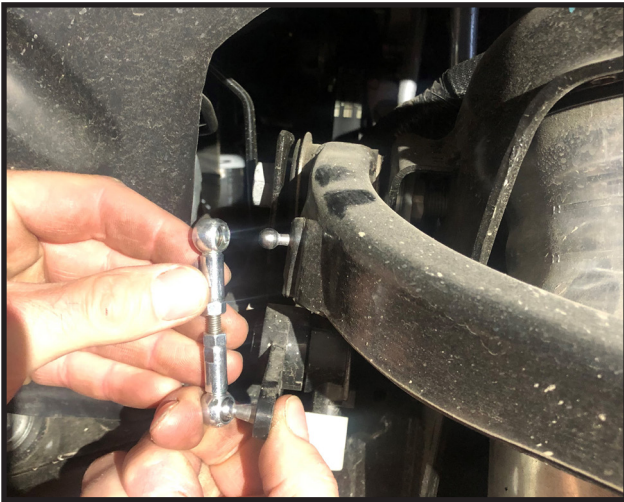
2019+ - Both ends of the OE link can be popped off from the ball studs.

1. Pull the sensor link off starting with the top, then unbolt the bottom if 16-18. If you are having a hard time, grab an open end wrench (8mm) or equivalent to place behind the link by each ball joint to help pop off evenly.

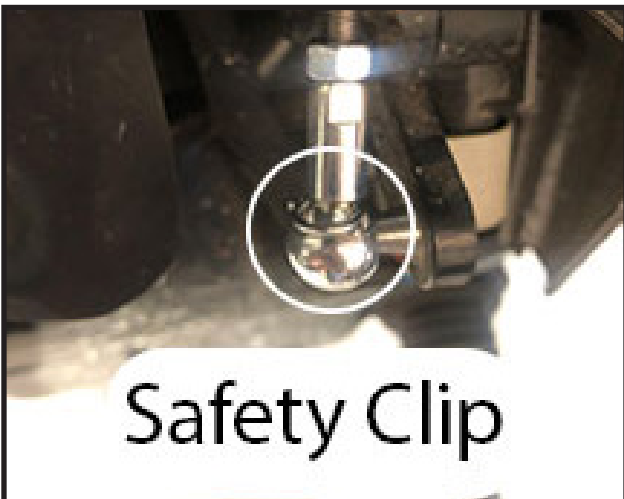


The **safety clips** included are used to lock each ball joint on after installation. They insert from the bottom of each ball joint in the small pin hole then wrap around the neck locking them into place. Please remove locking clips from both ends of the links before installation.

2. Once you have removed the OE links, press on the new ones until you hear it pop on. If necessary bolt on the bottom mount if your vehicle fits that year range.



3. Secure the links with the safety clips provided in each end.



4. Once, both sides are on and secured, turn truck on and go through settings and turn JACK MODE off.

How to adjust sensor links

1-2 spins make a significant difference when adjusting, and you must disconnect 1 end to adjust.

To Lower ride height = Adjust links longer
Offroad 2 not working? = Adjust links longer
To lift ride height = Adjust links shorter
Entry mode not working = Adjust links shorter

Congratulations, installation complete!

After the completion of this installation, Tuff Country EZ-Ride Suspension recommends taking the vehicle to an alignment shop and having the proper front end alignment performed.

Tuff Country Ez-Ride Suspension recommends that a complete re-torque is done on all the bolts associated with this suspension system. It is the customers responsibility to make sure that a re-torque is performed on all hardware associated with this suspension system after the first 100 miles of the installation. It is also the customers responsibility to do a complete re-torque after every 3000 miles or after every offroad use.