



Installation Manual
2019 Ford Ranger
2" Leveling Kit
Part # 22105

ZS06252019

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<i>Part #</i>	<i>Description</i>	<i>Qty.</i>
M09151-BK-01	Front Spacer	2
BU09151	Hardware Bag	1

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.

If you desire to return your vehicle to stock, it is the customers responsibility to save all stock hardware and components.

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.

Special note: BEFORE installation begins, it is the customers/installers responsibility to make sure that all parts are on hand.

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. Also, the OEM manual should be used as a reference guide.

This vehicles reaction and handling characteristics 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. Usually OE alignment specs are ideal but on these particular kits we like to see the Castor a little bit lower than specs. It will help with tire wear and drivability.

Front end installation:

1. To begin installation, block the rear tires of the vehicle so that the vehicle is stable and can't roll. Safely lift the front of the vehicle and support the vehicle with a pair of jack stands. Place a jack stand on both the driver and the passenger side frame rail. Next, remove the front wheels and tires from both sides.

2. Remove the driver and passenger side lower strut mount nuts. Save hardware.



3. Remove the driver and passenger side lower control arm cam bolt nuts. Save hardware.



4. Remove the driver and passenger side cam bolts. Save hardware.

5. Lower the lower control arm out of the mounting pocket on the driver and passenger side.



6. Working on the top strut mounts. Remove the three nuts that holds the strut, and remove the strut. Careful the strut will fall if its not held when last nut is removed. Repeat on passenger side.



7. Mark which strut is driver side and which is passenger side.



8. Using vice grip pliers, Remove the dowel pin from the strut top hat on both struts.



9. Using a hammer and a vice. Remove the two studs on the lower strut mount. Thread the nut on the stud to prevent damage to the stud. Save Hardware.



10. Locate locktite from hardware bag. Put locktite on the three studs on the strut top hat.



11. Locate Stud extenders in the hardware bag. Install them onto the top hat studs and tighten.



11. Locate the strut spacers part # M09151-BK-01. Slide spacer over the stud extenders, so its seated flat on the top hat.



12. Locate the 6 nuts and washers from the hardware bag. Re install driver and passenger side struts into top strut mounts, Using the washers and nuts. Do not tighten.



13. On driver and passenger, Raise the lower control arm up to the lower strut mount. Locate the OME lower studs and nuts. Install them into the strut and lower control arm. Leave loose



14. Locate OEM lower control arm cam bolt hardware. Using a jack, Raise lower control arms into frame mounts. Install front and rear cam bolts and nuts into lower control arm mounts. Leave loose.



15. Tighten the lower strut studs till there pulled in all the way in flush. Back nut off one turn, Then Tighten to **90ft lbs.**



16. Working on the top strut mounts. Tighten the three nuts to **30 ft-lbs**



17. Re-install the tires and wheels and torque the lug nuts to the wheel manufacturer's specifications.

Carefully lower the vehicle back down to the ground and remove the jacks.

18. Now tightent the lower control arm cam bolts to **120 ft-lbs**



Installation Complete!

Check and double check to make sure that all steps were performed properly. After the completion of this install, Tuff Country Recommends taking the vehicle in for a complete front end alignment.

Tuff Country EZ-Ride Suspension recommends that a complete re-torque is done on all 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 the system after the first 100 miles of installion. It is also the Customers responsibility to do a complete re-torque after every 3,000 miles or after every off road use. Neglect of following these steps could cause brackets to come loose and cause serious damage to the suspension system and to the vehicle.