

38122

**LEVEL TECH**

BY



**2007-2014 2WD TAHOE SUBURBAN AVALANCHE  
4" LEVELING KIT**



**BASIC KIT INCLUDES:**

- |                                          |                        |                         |
|------------------------------------------|------------------------|-------------------------|
| 1) Left Upper Control Arm W/ Ball Joint  | 2) 1/4 Washers         | 2) Rear Shock Extension |
| 1) Right Upper Control Arm W/ Ball Joint | 8) UCA Bushings MO3013 | 2) 9/16 X 3 1/2 Bolts   |
| 2) Ball Joint Zerk Fitting               | 4) UCA Sleeve          | 4) 9/16 Washers         |
| 2) Cotter Pin                            | 4) UCA Zerk Fittings   | 2) 9/16" Nylock Nuts    |
| 2) Castle Nut                            | 2) Strut Extension     | 2) 1.5" Coil Spacers    |
| 2) 1/4 NY Lock Nuts                      | 6) 7/16" Nuts          |                         |
|                                          | 6) 7/16" Washers       |                         |

**Disassembly**

1) Prior to lifting the vehicle it is recommended that you measure the stock height so that you have a base line measurement. Measure from the bottom of the wheel to the lip of the fender, Position truck on a flat surface and lift vehicle by the frame so that the front wheels are off the ground. Use a floor jack and jack stands or a (2) two post lift if available.

**NEVER WORK UNDER AN UNSUPPORTED VEHICLE**

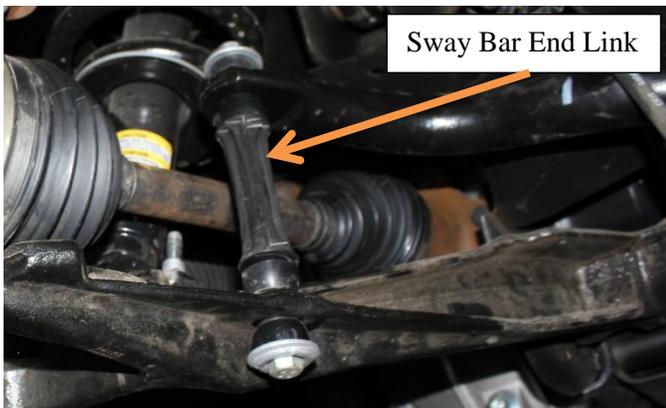
1) Remove the front wheels. Unbolt the five 15mm bolts that hold the plastic air dam on. Set aside.

2) Unclip the ABS line at the upper control arm pocket on both sides.

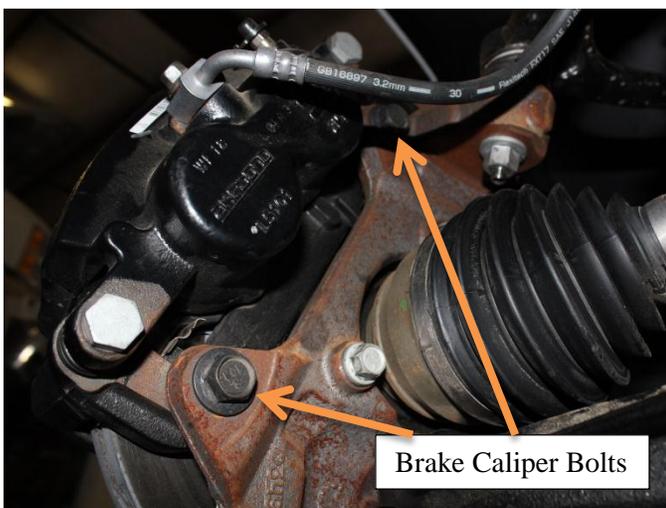
3) Unclip the ABS line at the upper control arm and unbolt the brake line retention bracket on both sides



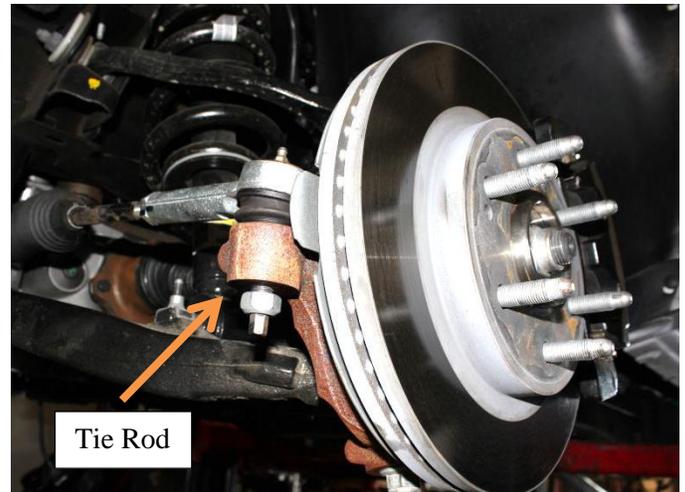
4) Remove the sway bar end link bolt using a 15mm socket and a 15mm open end wrench. Do this on both sides



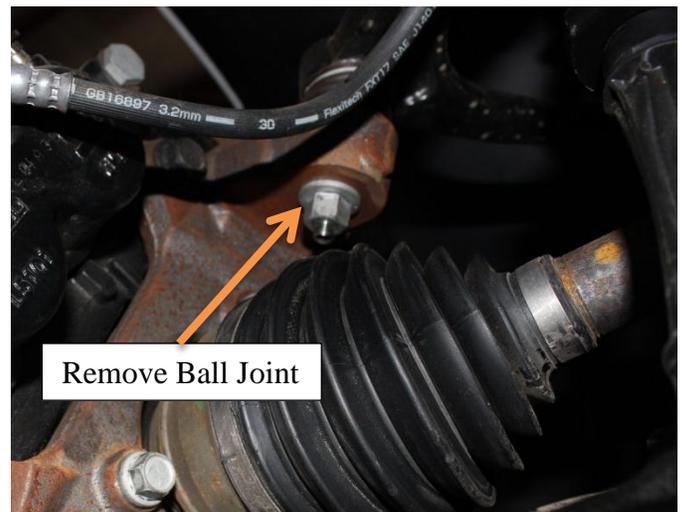
5) Remove the brake caliper using an 18mm socket. Secure the caliper so that the brake line does not get stretched or damaged. Repeat on opposite side.



6) Unbolt the tie rod end using a 21mm socket. An additional wrench may be needed to keep the ball joint from spinning. Repeat on opposite side



7) Separate the upper ball joint from the steering knuckle. Repeat on opposite side.



8) Remove the three 18mm upper strut mounting nuts

9) Remove the two 15mm lower strut mounting bolts.



- 10) Remove the strut from the vehicle. Repeat on opposite side
- 11) Mark the position of the alignment cams. Remove the 21mm UCA nuts, cams, and bolts.
- 12) Remove the upper control arm. Repeat on other side
- 13) Install the FTS Strut Extension on top of the strut using the factory hardware. Tighten to 45 lb-ft.



- 14) Install the FTS upper control arm. The upper ball joint will be angled towards the rear of the vehicle. Install the cam bolts and cams. Line up your markings.

**PASSENGER SIDE SHOWN**



- 15) Re-install the strut into its stock location. Loosely install the 7/16" nuts on the upper mount.
- 16) Raise the lower control arm and line up the lower mounts. RE-USE factory hardware Tighten to 45 ft-lb.
- 17) Tighten the three upper strut mounting nuts to 45 ft-lb. Install the upper ball joint to the knuckle. Tighten to 45 ft-lb. Install the supplied cotter pin.
- 18) Re-install the tie rod. Tighten to 100 ft-lb
- 19) Install the front brake calipers using the factory hardware and 18mm socket. Tighten to 146 ft-lbs.

- 20) Reconnect the ABS line and place back in factory location. Reinstall the sway bar end links on both sides. Tighten to 45 lb-ft.
- 21) Install the brake line support bracket onto upper control arm using the 1/4" nuts and washers provided. Tighten to 7 lb.-ft.

**REAR INSTALLATION**

- 1) Jack up the rear of the vehicle and support the frame rails with jack stands.
- 2) Remove the rear wheels and tires.
- 3) Disconnect brake lines at top of differential and unbolt the driver and passenger brake lines from the axle housing.
- 4) With the rear axle Supported disconnect sway bar end links. **Skip Step 5 If You Vehicle Is Not Auto ride Auto Ride Models Only**
- 5) Disconnect the air ride sensor bracket from the upper rear trailing arm.
- 6) Unclip ABS lines at upper trailing arm then up at the frame to allow enough slack for when you lower the axle down.
- 7) With the rear axle supported by the jack, remove the lower shock mounting hardware.
- 8) Slowly lower axle and remove coil springs and rubber isolators.
- 9) Install the FTS 1.5" billet spacer on the axle, Install OEM rubber isolator on top of billet spacer.



10) Reinstall rear coil spring in the same orientation it was removed.

11) Jack axle up and reconnect lower shock mounting hardware and sway bar end links.

12) Reattach ABS lines, brake line and emergency brake cables back in their original locations.

13) Reinstall wheels/tires and torque to spec.

14) Recheck all hardware, cables and brake line, Rear installation is now complete.



## Product Warranty and Warnings-

FTS provides a Limited Lifetime Warranty to the original retail purchaser who owns the vehicle, on which the product was originally installed, for defects in workmanship and materials.

The Limited Lifetime Warranty excludes the following FTS items; bushings, bump stops, ball joints, tie rod ends, limiting straps, cross shafts, heim joints. These parts are subject to wear and are not considered defective when worn. They are warranted for 60 days from the date of purchase for defects in workmanship.

Reservoir shocks are considered a serviceable shock with a one year warranty on leakage only. Service seal kits are available separately for future maintenance. All other shocks are covered under our Limited Lifetime Warranty.

FTS does not warrant any product for finish, alterations, modifications and/or installation contrary to FTS instructions. Alterations to the finish of the parts including but not limited to painting, powder coating, plating and/or welding will void all warranties. Some finish damage may occur to parts during shipping which is considered normal and is not covered under warranty.

FTS products are not designed nor intended to be installed on vehicles used in race applications or for racing purposes or for similar activities. (A "RACE" is defined as any contest between two or more vehicles, or any contest of one or more vehicle against the clock, whether or not such contest is for a prize). 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.

Installation of most suspension products will raise the center of gravity of the vehicle and will cause the vehicle to handle differently than stock. It may increase the vehicle's susceptibility to a rollover, on road and off road, at all speeds. Extreme care should be taken to operate the vehicle safely at all times to prevent rollover or loss of control resulting in serious injury or death.

FTS makes every effort to ensure suspension product compatibility with all vehicles listed in the catalog, but due to unknown auto manufacturer's production changes and/or inconsistencies by the auto manufacturer,

FTS cannot be responsible for 100% compatibility, including the fitment of tire and wheel sizes listed. The Tire and Wheel sizes listed in FTS's catalog are only a guideline for street driving with noted fender trimming. FTS is not responsible for damages to the vehicle's body or tires.

FTS's obligation under this warranty is limited to the repair or replacement, at FTS option, of the defective product only. All costs of removal, installation or re-installation, freight charges, incidental or consequential damages are expressly excluded from this warranty. FTS is not responsible for damages and/or warranty of other vehicle parts related or non-related to the installed FTS product. This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been subject to accident, negligence, alteration, abuse or misuse as determined by FTS.

FTS suspension components must be installed as a complete system including shocks as shown on our current website. All warranties will become void if FTS parts are combined and/or substituted with other aftermarket suspension products. Combination and/or substitution of other aftermarket suspension parts may cause premature wear and/or product failure resulting in an accident causing injury or death. FTS does not warrant products not manufactured by FTS.

Installation of FTS product may void the vehicle's factory warranty; it is the consumer's responsibility to check with their local vehicle's dealer for warranty disposition before the installation of the product.

It is the responsibility of the distributor and/or the retailer to review all warranties and warnings of FTS products with the consumer prior to purchase.

FTS reserves the right to supersede, discontinue, change the design, finish, part number and, or application of parts when deemed necessary without written notice.

FTS is not responsible for misprints or typographical errors within the catalog or price sheet.

Full Throttle Suspension 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 40% restocking fee. No returns will be accepted after 30 days upon receipt of product.

**Thank You for choosing Full Throttle Suspension**

**Tech support 559-271-8685 or send email to [fts.dwgs@gmail.com](mailto:fts.dwgs@gmail.com)**