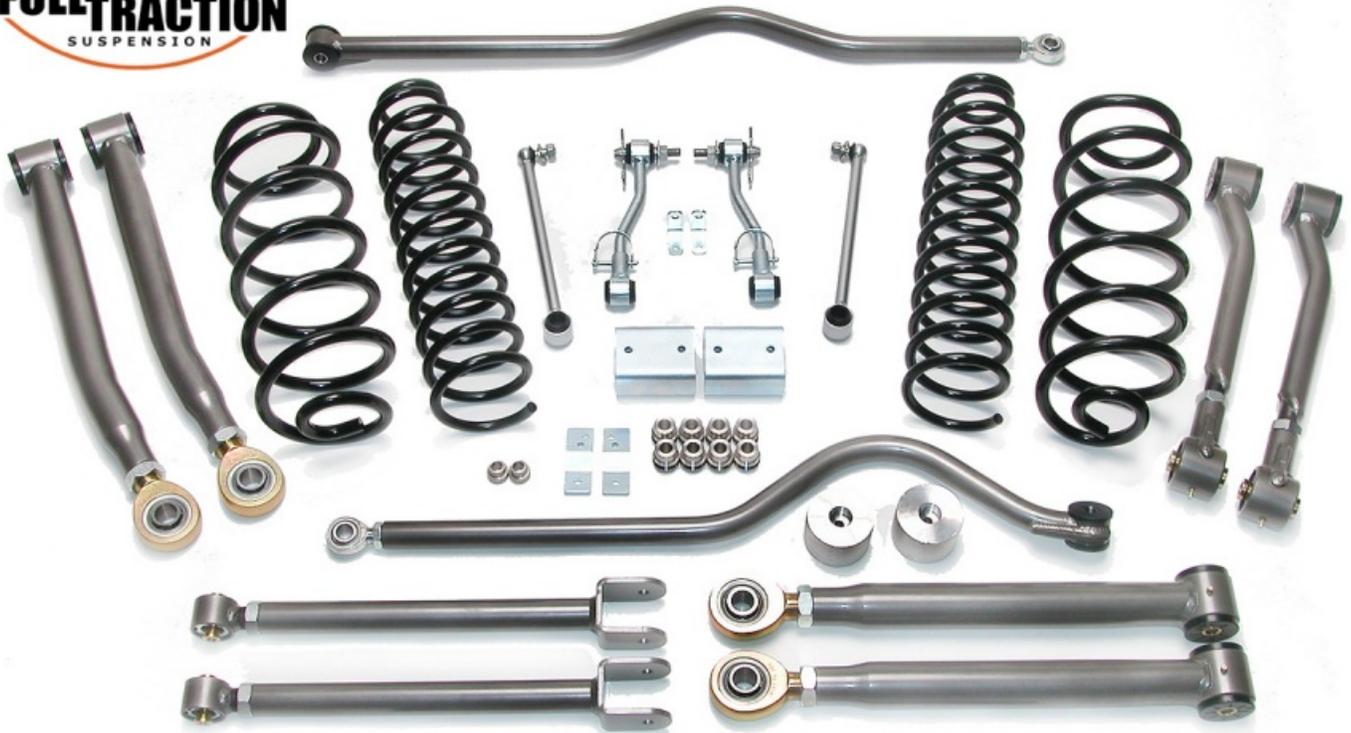




2007-13 Jeep Wrangler JK

Part # FTS7133 3.0" Ultimate Suspension System



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Full-Traction 3" ULTIMATE Suspension System

Read instructions from start to finish before installation.

It is recommended to use the services of a professional installer.

Mfg.by



INSTALLATION INSTRUCTIONS

Part # FTS7133 2-Dr 3.0" Ultimate Suspension System

Part # FTS7143 4-Dr 3.0" Ultimate Suspension System

2007-13 Jeep Wrangler JK

Component Box A	Qty
FTS 7100 Economy Hardware Box	
50-7101 JK Rear Bump Stop Block	2
CA1003 2" X 3" Poly Bump Stop Ext.	2
CA2007 Bracket, Rear Brake Line / Left	1
CA2008 Bracket, Rear Brake Line / Right	1
CA2005 Bracket, Front Brake Line/ Right	1
CA2006 Bracket, Front Brake Line/ Left	1
70-7133 Master Hardware	
1/4" x 3/4" Bolt	2
1/4" Metalock Nut	2
1/4" Flat Washer	2
3/8" x 3/4" Gr.8 Bolt	4
3/8" x Flat Washer	4
3/8" Metalock Nut	4
3/8" x 2.5" Self Tapping Bolt	2
12mmDia x 60mm Bolt	2
12mmDia x 65mm Bolt	2
12MM LockNut	4
70-7134 Front & Rear Trac Bar Hardware Kit	
KMX-12 3/4" Chromoly Rod End	2
50-713315 Mis-Alignment Spacers	4
50-7153-01 Mis-Alignment Spacers	4
CA1022 Black Vecton Trac Bar Bushing	4
SLE 105 Trac Bar Sleeve	2
3/4" Jam Nut	2
70-7535 Control Arm Hardware Kit	
JM-16T 1" x 1-1/4"-12 Male Rod End	4
1-1/4" Jam Nut	4
70-7539 High Mis-Alignment Spacer Kit	
50-750608-04 High Mis-Alignment Spacer	8

Component Box A	Qty
Installation Instructions	1
50-7102 JK Front Coil Springs	2
50-7103 JK Rear Coil Springs	2
FTS306071 JK NEW GEN. Front Sway Bar Link Kit (Assembled)	
50-710301 JK Front Sway Bar Link Rod	2
50-5007 JK Disconnect Ends	4
U0120677 Bail Pins	4
MOO392-BK-01 5/8" Hourglass Bushing	4
SLE104 1/2" x 1-3/8" Sleeves	4
70-4175 12" Straight Rear Sway Bar Link Kit (Assembled)	
12" Straight Shank Rear Sway Bar Links	2
SLE104 1/2" x 1-3/8" Sleeves	4
MOO392-BK-01 5/8" Hourglass Bushing	4

Important Safety Warning 2007-13 Jeep Wrangler JK with Electronic Stability Program (ESP)

Must Read:

Standard on the all-new 2007 Jeep Wrangler is an Electronic Stability Program (ESP), which aids the driver in maintaining vehicle directional stability in severe driving maneuvers on any type of surface. ESP features three modes – “full on,” “full off” and “partial on.” ESP provides the greatest benefit in critical driving situations such as turns, and is especially valuable when driving on mixed surface conditions including snow, ice or gravel. If there's a discernible difference between what the driver directs through the steering wheel and the vehicle's path, ESP applies selective braking and throttle input in order to put the vehicle back onto the driver's intended path.

Note:

ESP system activation will occur on a lifted Jeep JK when the steering wheel and the front steering system are not in proper alignment. Full-Traction Suspension recommends a professional front end alignment of the vehicle immediately following installation of any lift system. Proper alignment includes adjusting the Steering Drag Rod and Centering the Steering Wheel. Failure to align the front of the vehicle will result in automatic activation of the ESP system while driving.

Safety Warning:

Suspension systems or components that enhance the off-road performance of your vehicle may cause it to handle differently, on and off-road, than it did from the factory. Care must be taken to prevent loss of control or vehicle rollover during sudden maneuvers. Failure to drive the vehicle safely may result in serious injury or death to driver and passengers. We recommend you always wear your seatbelt, drive safely and avoid quick turns and other sudden maneuvers. Constant maintenance is required to keep your vehicle safe. Thoroughly inspect your vehicle before and after every off road use.

Installation Warning:

We recommend that certified technicians perform the installations of our products. Attempts to install these products without knowledge or experience may jeopardize the safety of the vehicle. These instructions only cover the installation of our products and may not include factory procedures for disassembly and reassembly of factory components. Read instructions from start to finish and be sure all parts are present before disassembling the vehicle. Included instructions are guidelines only for recommended procedures and in no way are meant to be definitive. Installer is responsible to insure a safe and controllable vehicle after performing modifications. Do not perform test drives on public roads with partially completed installations. Always double and triple check your work before use. Eye protection is recommended when using power tools.



PLEASE NOTE:

The required wheel size - minimum diameter of 16". Recommended width of 8" with a 4.0" offset from the inward side.

Maximum recommended tire size-35"

BEFORE YOU BEGIN:

Check the parts and hardware against the parts list to assure that your kit is complete. Read the instructions and separate the parts according to the area where they will be used on the vehicle. Separating and placing the hardware with the brackets before you begin will save installation time.

Always wear safety glasses when using power tools.

A Jeep Wrangler JK Factory Service manual will aid in the installation of this kit.

DISASSEMBLY - FRONT

1. Raise and support vehicle with jack stands. Support axle with a floor jack. Remove wheels and tires.
2. Working on one side of the vehicle, remove front shock absorber. Disconnect and remove the sway bar link at the axle. Leave the front sway bar attached at the frame/crossmember.

Sway bar link is shown in Fig.1

3. Remove the front track bar from the vehicle. **Fig.2**

4. Lower axle until coil spring is free from upper mount. Remove coil spring. **Fig.3**

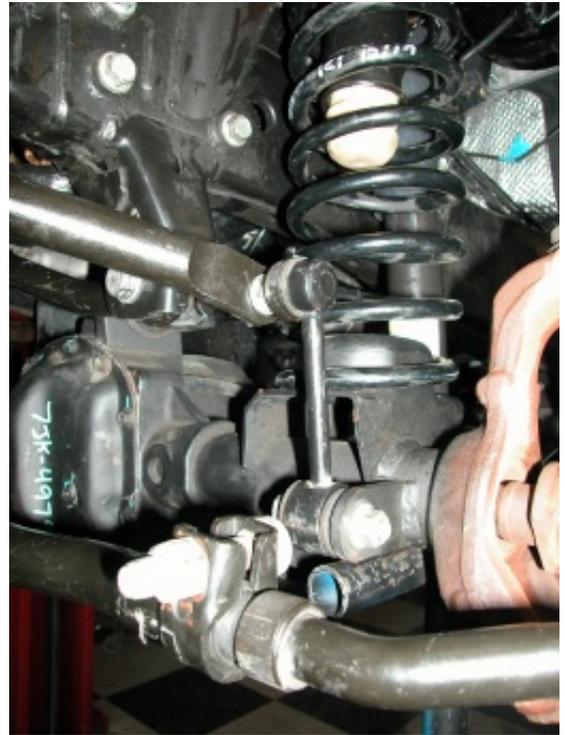


Fig.1



Disconnect front track bar from axle. It is not necessary to disconnect it from the frame as shown.

Fig.2



Fig.3

INSTALLATION - FRONT

1. To install the new lower 2 x 3-in bump stop extension, mark the center of lower Coil Spring Pad. Using a 11/32" diameter drill bit, drill a pilot hole in the previously marked area. Install using 3/8" X 2.5" self-tapping hardware provided. Torque to 30 ft.-lbs. **Fig.4 & 5**

2. Position new front coil spring on axle pad. Raise the axle into position until coil spring seats in upper mount, then raise axle another 2". Install new front shock absorbers. Torque upper shock nuts to 17 ft-lbs and lower nuts to 20 ft-lbs. **Fig.6**



Fig.4



Fig.6



Fig.5

3. Next, remove the factory front upper & lower control arms from frame and the axle as shown in **Fig. 7** New Full-Traction front control arms are **LEFT** and **RIGHT** and must be installed correctly. Install new front upper and lower control arms as shown in **Fig. 8**. The Heim Joint with the hi-misalignment spacers are installed at the axle mounting point and the solid rubber bushings will be installed at the frame using factory bolts and torque specifications. Note: *adjust arms to stock length before installation.*



Remove factory control arms from frame and axle.

Fig.7



Fig 8 shows the radius of the new arm and proper mounting. (Left/Driver side shown)

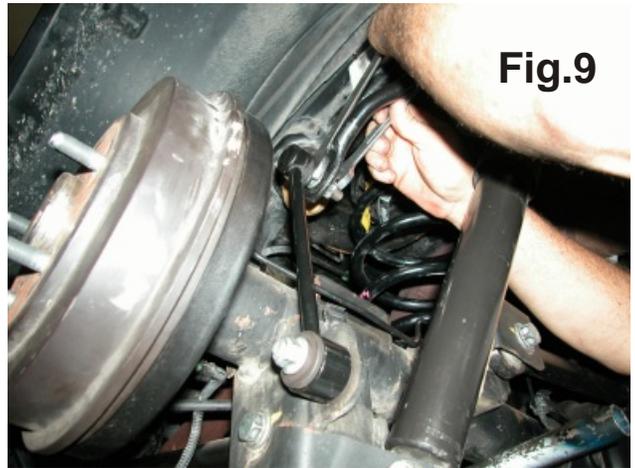
Fig.8

INSTALLATION FRONT

IMPORTANT - MUST READ

Jeep JK Non-Rubicon models.

Mount new **Part # FTS306071** Full-Traction **Front Disconnect** Sway Bar links to the sway bar and the axle using the factory hardware in the top mounting hole and supplied the 12mm x 65mm bolts and nuts in the bottom axle bracket. **Fig.9**



2007 Rubicon models come factory equipped with electric sway bar disconnect. Remove the factory rear sway bar links and install them on the front sway bar. Caution: DO NOT USE Full-Traction Sway Bar Disconnect Links on the Front Rubicon sway bar.

Jeep JK Rubicon models only.

On Rubicon Unlimited model, remove the links from the **REAR** sway bar and install the **REAR** links on the **FRONT** sway bar using factory metric bolts in the top mounting hole and 12mm x 65mm bolts and nuts in the bottom axle bracket. *Note: New replacement links for the rear are supplied with this system.*

DISASSEMBLY - REAR

1. Raise the rear of the vehicle, support frame with jack stands and remove rear wheels.
2. Remove factory rear sway bar links from axle mounts. Support the rear axle with stands before the rear shocks are removed. Remove bolts holding the rear brake lines to the frame. Save bolts to be reused. Remove rear shock absorbers.
3. Lower rear axle until the coil spring is free from the upper seat. Remove coil spring and factory rubber isolator.

INSTALLATION - REAR

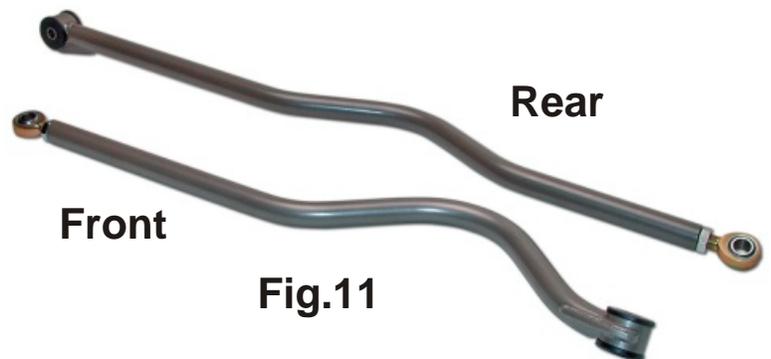
4. With the rear springs removed - install new Full-Traction rear upper and lower control arms using factory hardware. On the upper arms, install the rubber bushing end at the axle. On the rear lowers, the adjustable Heim Joint end with the hi-misalignment spacers are installed at the axle mounting point and the rubber bushings will be installed at the frame.

Fig.10 *Note: Reuse the factory bolts to mount the arms. DO NOT torque the arms with the vehicle suspended in the air. Lower vehicle to the ground sitting in a flat /static position before applying final torque. This method eliminates torque twist to the rubber bushings. Torque bolts per factory specifications.*



5. Before installation, assemble new Full-Traction rear track bar. Install new Vecton material bushings and SLE105 sleeve into eyelet. Bushings must be press fitted with a bench vise or H-press. Bushings are brittle and should not be hit with a steel hammer. Install new Heim joint and jam nut into threaded end of track bar. Install new

track bar to the frame using factory bolts. Install Heim joint with the supplied **50-713315** Mis-Alignment spacers to the axle bracket and the Vecton bushing to the frame bracket. Adjust new track to factory stock length. **Fig.11**



6. Remove stock rear track bar. Replace with new Full-Traction replacement unit using stock hardware.

7. Install new rear springs. Reuse factory isolator on new rear springs and install new rear shocks.



8. Using the factory bolt located on the frame, install new left and right rear brake line extension brackets as shown in **Fig.12A & 12B**

Next, mount the brake line to the new bracket using supplied 1/4 bolts, nuts and washers.



9. Install new rear bump stop blocks as shown in Fig.13 using 3/8 x 3/4" bolts, nuts and washers.



10. Install new **Part # 70-4175** 12" straight shank rear sway bar links using factory metric bolts in the bottom axle mounting hole and the 12mm x 60mm in the top mounting hole of the sway bar. Check for proper clearance between sway bar and track bar bracket. (Not Shown)

CHECKS AND ADJUSTMENTS.

- * Recheck all hardware for tightness after the first 100 miles.
- * Headlights should be adjusted.
- * Alignment of front wheels will be required, use factory specifications.

Congratulations on your choice of a performance engineered FULL-TRACTION SUSPENSION System. Proper maintenance of this kit will insure years of both on and off-road enjoyment. Check & re-torque all hardware every 500 miles or after EVERY off-road use. Keep all bushings and pivot points properly lubricated. Periodically check wheel alignment and check for abnormal tire wear.

**CORPORATE HEADQUARTERS:
12539 Jomani Dr. Bakersfield Ca 93313
Fax: 661\398-9555
Tech: 661\398-9585
E-mail: sales@full-traction.com
Website www.full-traction.com
Business Hours: 8:00 - 5:00 PST Monday - Friday**

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WARRANTY

Full Traction Limited Warranty

About our warranty

Full Traction components may have minor finish damage to powder coated or plated surfaces which may occur during shipping and is not covered under warranty. Full Traction Suspension warrants each new Full Traction Component against factory defects in material and workmanship for 1 year after date of purchase. Full Traction Suspension systems are sold as complete systems and must be installed as such per Full-Traction installation instructions. Any substitutions of other manufacturers components or exemptions of required components will immediately void the warranty. Full-Traction suspension guarantees that all of its products are of the finest quality and free from manufacturing defects. Any product that has been manufactured incorrectly or is of a defective nature will be repaired or replaced at the discretion of Full-Traction Suspension. Returns: Only after written or verbal approval, send such part(s) and proof of purchase, via prepaid freight with an RGA (Return Goods Authorization) number to: Full-Traction Suspension 6951 McDivitt Dr. Bakersfield Ca 93313 USA. Shipments without an RGA number clearly designated on the outside of all containers or collect shipments will be refused. To obtain RGA(s) call 661/398-9585

What is not covered

Suspension and steel fabricated components: Limited (12) month warranty excluding the following items: Tie rod ends, bushings, hardware, brake lines, heim joints. These parts are subject to wear and are not considered defective when worn. They are warranted for 90 days from the date of purchase for defects in workmanship. Shock absorbers are covered under our limited warranty. Products or components installed on vehicles other than those specifically indicated in the Full-Traction Suspension catalog or website. Products or components which have been subjected to abuse, accident, alteration, modification, improper installation, tampering, negligence, misuse, or products installed on a vehicle used in sanctioned racing events. A race is defined as any contest between two or more vehicles, or any contest of one or more vehicles against the clock, whether or not such contest is for a prize. This warranty does not include vehicles used for government or commercial purposes. Full Traction does not warrant any product not manufactured by Full Traction Suspension. Full Traction Suspension products are not covered under warranty outside the United States of America. Full Traction Suspension shall not be liable for any loss, damage, or injury, whether ordinary direct, special, incidental or consequential damages, arising from the manufacture, sale, installation, re-sale, delivery, possession, handling or use of its products. Full Traction Suspension is not responsible for typographical errors either in pricing or in content. Warranties, policies, and prices subject to change without notice.

Installer's Safety Warning

Full-Traction Suspension recommends our products to be installed by certified technicians only. These recommendations pertain only to Full-Traction Manufactured Products. Efforts to install our system without experience and knowledge may jeopardize the operating safety of the vehicle.

Detach and mail or fax to the address below

Name _____ Phone Number () _____

Address _____ City _____ State _____ Zip _____

Products Purchased from: _____ Date Purchased _____

Installed By _____ Date Installed _____

Vehicle make _____ Model _____ Year _____

Installation Comments _____

Product Part Number _____ Description: _____

FTS7133

2007 Jeep JK 3" Ultimate Suspension System
Warranty Registration Number _____

Mail or Fax To:
Full Traction Suspension
12539 Jomani Dr
Bakersfield Ca 93312
Fax: 661-398-9555



WARRANTY FORM

WARRANTY FORM