

75004



6" 2009-2013 Ford F150 2WD

75001-5 COMPONENT BOX 1

- 1) Rear Cross Member
- 1) Front Cross Member
- 1) Left Strut Spacer
- 1) Right Strut Spacer
- 2) Sway Bar Drops
- 1) Left Compression Strut
- 1) Right Compression Strut
- 2) Tie rods T538

1) Hardware

HARDWARE

- 2) 18mm x 150mm bolts
- 2) 18mm x 160 mm bolts
- 4) 18mm nylock nuts
- 8) 18mm washers
- 10) 7/16 X 1 1/4" bolts
- 10) 7/16" nylock nuts
- 20) 7/16" washers
- 4) 5/16" x 3/4" bolts
- 4) 5/16 nylock nuts
- 8) 5/16 washers
- 1) Left brake line bracket
- 1) Right brake line bracket

75001-3 COMPONENT BOX 2

- 4) 9/16 x 3" x 13" Square U bolts
- 2) 3" Flat Blocks Double Pin
- 8) 9/16-18 Fine thread nuts
- 8) 9/16" Washers

75001-2 STEERING KNUCKLE

- 1) Left Steering Knuckle
- 1) Right Steering Knuckle

Installation Instructions

FRONT SUSPENSION INSTRUCTIONS:

1) Disconnect the negative terminal on the battery.

2) With the vehicle on level ground, set the emergency brake and block the rear tires. Jack up the front end of the truck and support the frame rails with jack stands. NEVER WORK UNDER AN UNSUPPORTED VEHICLE! Remove the front tires.

3) Remove and discard the factory splash guard

4) Locate the sway bar end links and disconnect from the factory lower control arms, save the hardware. Locate the sway bar frame mounts and disconnect them from the frame, remove the sway bar from the truck. Save the hardware and sway bar.

5) Working from the driver side of the vehicle, disconnect the tie rod ends from the steering knuckle by striking the knuckle to dislodge the tie rod end.

6) Remove factory Tie Rod end and discard.

7) Remove the brake caliper and place it next to the frame. Do not overstretch the brake hose when doing so. Retain the hardware for reinstallation. Remove the brake rotor and save. Remove the electronic stability control (ESC) sensor from the top of the hub. Cover the sensor to keep it free from dirt and debris.

8) Remove the upper and lower ball joint nuts. Disconnect the upper and lower ball joints from the steering knuckle by striking the knuckle with a large hammer next to each ball joint on the knuckle to dislodge the ball joints. Use care not to hit the ball joints when removing. Retain hardware and remove the knuckle with the dust shield and the hub

9) Remove the four large bolts and three small bolts on the back side of the knuckle. Remove the hub and the actuator from the knuckle. Save hardware for install in the FTS knuckle.

- 10) Remove the bolts on the front side holding the dust shield. Remove the dust shield and discard the factory knuckle.
- 11) Remove the lower shock mount bolt and Save the hardware. Remove the three upper nuts and Save the hardware. Remove the shock assembly from the vehicle and mark "Driver" for assembly to install later with upper shock extensions.
- 12) Remove the lower control arm bolts from the frame pivots and remove the lower control arm from the truck. Save hardware and lower control arm.
- 13) Repeat steps four through twelve on the passenger side of the truck.
- 14) Install the FTS rear cross member in the factory rear lower control arm pockets. With the open portion to the front of the vehicle. Mount the cross member using the factory control arm pivot hardware. Leave all hardware loose.
- 15) Install the FTS front cross member into the factory front control arm pockets using the factory hardware. Leave the hardware loose at this time.
- 16) Install the FTS upper strut spacer to the factory strut using all factory hardware.
- 17) Using 7/16 x 1 1/4" bolts supplied install the strut assembly back in factory location Leave all hardware loose.
- 18) Install the factory lower control arms into the FTS cross members using 18mm x 160 bolts supplied.
- 19) Install the FTS impact tubes using the 7/16 x 1 1/4 bolts supplied
- 20) Install the FTS driver side spindle and install the factory hub. Torque the four 14mm bolts to 160 ft.- lbs.
- 21) Install the spindle onto the upper and lower control arms. Torque the upper ball joint to 85 ft.-lbs. and the lower ball joint to 110 ft.-lbs.
- 22) Install the dust shield and torque to 14 ft.-lbs.
- 23) Install the ABS wheel speed sensor. Make sure the end of the sensor is clean.
- 24) Install the frame brake line bracket. Using the factory hardware. Mount factory brake line bracket to the side of the knuckle. After installing the factory brake line bracket, check to insure full movement by steering the knuckle back and forth, and make sure none of the ABS lines, brake lines are inhibited during full test movement of the knuckle.
- 25) Reinstall the original brake rotor, followed by the brake caliper. Use a small amount of thread locking compound on the caliper bolts and torque to 145 ft.-lbs.
- 26) Trim 3/4" off the end of the factory iner tie rod.
- 27) Install the new FTS tie rod end.
- 28) Reconnect the tie rod end to the steering knuckle and torque to 60 ft.-lb.
- 29) Install the FTS driver and pass sway bar brackets factory frame using the factory hardware.

30) Install the sway bar using the 7/16" x 1 1/4" hardware, Install the sway bar end to the factory lower control arm using the factory end links.

31) Install the supplied brake line bracket as shown below.

REAR SUSPENSION INSTRUCTIONS

1) Jack up the rear end of the vehicle and support the frame rails with jack stands. Release the parking brake at this time. Supporting the rear differential. Remove the rear shocks, U-bolts, blocks and lower axle down. Use care not to over extend the brake hose.

2) Locate the factory brake line mount on the driver side of the frame. Using the Supplied brake line bracket and attach the bracket between the factory fame mount and the factory bake line.

3) Install the rear lift blocks .Using the provided U-bolts, nuts and washers, align the axle, lift blocks, and springs and torque U-bolts to 90 ft.-lbs.

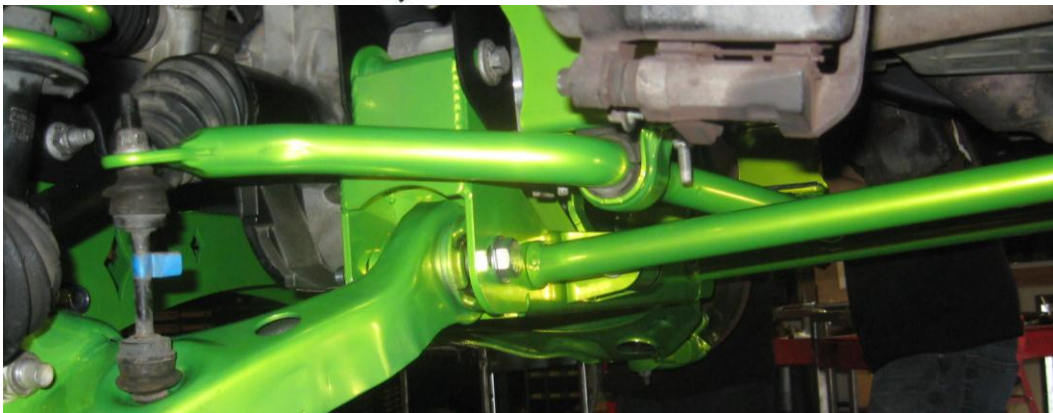
4) Install the rear shocks. Install the shocks using the factory hardware and torque upper and lower bolts to 45 ft.-lbs.

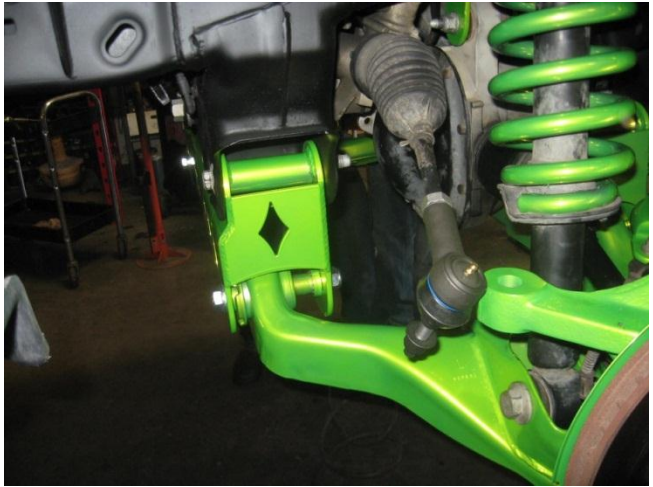
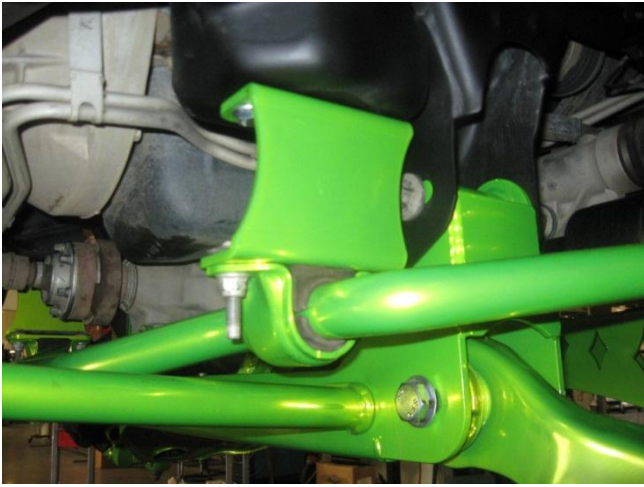
5) Install the E brake bracket

6) Recheck all bolts for proper torque. Recheck the front and rear brake hoses and ABS lines for proper clearances.

7) Install tires and wheels and torque lug nuts to wheel manufacturer's specifications. Turn front tires left to right and check for appropriate tire clearance. Note -Some oversized tires may require trimming of the bumper and valance.

8) Check the front-end alignment and set to the factory specifications. Re-adjust vehicles headlights.







Product Warranty and Warnings-

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