



ICON VEHICLE DYNAMICS

TM

1580 Commerce St. Corona, CA 92880
ph. 951.272.ICON fx. 951.272.4IVD

Instruction Sheet:

Part No. 9-2500
2004-2008 Ford F150 Spacer Leveling Kit

Enclosed Parts List:

(2) Billet Spacers	(4) Stem Bushings
(6) 3/8" x 1 1/4" Bolt, Gr.8	(4) Stem Bushing Washers
(6) 3/8" Lock Washer	(2) Stem Sleeves

****READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!**

****Warning! Icon Vehicle Dynamics recommends that you exercise extreme caution when working under a vehicle that is supported with jack stands.**

ENSURE TRUCK IS IN GEAR OR IN PARK, SET PARKING BRAKE, TURN OFF ENGINE AND CHOCK TIRES!

1. Jack up vehicle and support securely on jack stands
2. Remove front wheels
3. Disconnect outer tie rod end to allow clearance for shock removal
4. Remove the 3 upper bolts and one lower bolt that secure the shock assembly and remove from vehicle. The rubber bushings in the a-arms are stiff, the use of a pry bar to flex the suspension down will ease removal of the shock assembly
5. Before you disassemble the strut note the rotation of the 3 upper studs to the lower eye. The studs are not evenly spaced and will only go into the truck one way.
6. Use a suitable spring compressor to compress the spring. If you do not have a spring compressor you may want to take the strut to a service center to swap out the top plate for you(steps 6-11). Use extreme caution when using a spring compressor; make sure it has a safety clamp to prevent the compressor from popping of the spring. Note you will need to compress the spring 1-3/4" more to reassemble the shock with the new spacer than to disassemble it so make sure your compressor has enough travel to do the job!!
7. With the spring safely compressed remove the nut on the upper stem of the shock and remove the stock upper plate.
8. Remove the plastic shock shaft sleeve from the stock upper plate and snap it on to the new spacer. Remove the rubber coil spring seat from the stock upper plate and install it on the new spacer.
9. Install one washer and sleeve on the shock shaft and slide one stem bushing over the sleeve. Make sure the factory bump stop is still on the shock shaft.
10. slide the upper mount on the shock followed by another stem bushing and washer. Reinstall the factory stem nut. Tighten until the washers clamp down on the sleeve. Torque to 18 ft*lb
11. Carefully remove the spring compressors noting the orientation of the 3 studs to the lower eyelet
12. Reinstall the strut in the vehicle. And reinstall the tie rod end. Torque the 3 upper nuts to 30 ft*lb, lower bolt to 150 ft lb, and tie rod to 90 ft*lb
13. Reinstall the tires and put the vehicle on the ground.
14. Take the vehicle to an alignment shop.

For technical assistance or suggestions on how to make our product better call (951) 272-ICON Monday-Friday between the hours of 8am-12pm and 1pm-5pm Pacific-standard time, certain holidays excluded.

Icon Vehicle Dynamics LIMITED LIFETIME WARRANTY

Icon Vehicle Dynamics warrants to the original retail purchaser who owns the vehicle on which the product was originally installed. *Icon Vehicle Dynamics* does not warrant the product for finish, alterations, modifications and/or installation contrary to *Icon Vehicle Dynamics* instructions. *Icon Vehicle Dynamics* products are not designed, nor are they intended to be installed on vehicles used in race applications, for racing purposes or for similar activities. (A "race" is defined as any contest between two or more vehicles, or a contest of one or more vehicles 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 and Canada.

Icon Vehicle Dynamics obligation under this warranty is limited to the repair or replacement, at *Icon Vehicle Dynamics*' discretion, of the defective product. Any and all costs of removal, installation or re-installation, freight charges and incidental or consequential damages are expressly excluded from this warranty.

Items that are subject to wear are not considered defective when worn and are not covered.

Coil over take-apart shocks are considered a serviceable shock with a one year warranty on leakage only. Service seal kits are available separately for future maintenance. We do not warranty any other product not directly manufactured by *Icon Vehicle Dynamics*.

Icon Vehicle Dynamics components must be installed as a complete kit as shown in our current application guide. Any substitutions or exemptions of required components will immediately void the warranty.

Some finish damage may happen to parts during shipping and is not covered under warranty.

This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been improperly installed, modified or customized subject to accident, negligence, abuse or misuse.