



TM

ICON VEHICLE DYNAMICS

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Instruction Sheet:

Part No. 3-9012

Dual Shock Hoop

1999-2004 Ford Super Duty F250/F350 4WD

1999-2005 Ford Excursion 4WD

Enclosed Parts List:

- (2) Dual Shock Hoop
- (1) Hardware Kit Including:
 - Sleeve Kit Including:*
 - (4) 1/2" x 6 1/2" Bolt, Gr.8
 - (2) Lower Mount Spacer
 - (3) 1/2" x 1 1/2" Bolt, Gr.8
 - (7) 1/2" Nylock Nut
 - (22) 1/2" Flat Washer, Gr.8

*****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.

IT IS HIGHLY RECOMMENDED TO USE RED LOC TIGHT 271 ON ALL FACTORY FORD BOLTS WHEN RE-INSTALLING THE BOLTS!

INSTALLATION INSTRUCTIONS:

1. ******WARNING-THIS KIT MUST BE USED WITH DUAL SHOCKS ONLY! USING A SINGLE SHOCK WITH THIS MOUNT WILL RESULT IN DAMAGE AND WILL VOID ALL WARRANTIES!******
2. ***ENSURE TRUCK IS IN GEAR OR IN PARK, SET PARKING BRAKE, TURN OFF ENGINE AND CHOCK REAR TIRES!***
3. Remove the front wheels: Consult your vehicle owner's manual. Jack up the front of the vehicle using a jack on the FORD approved jacking points. Support the vehicle using jack stands and remove the wheels.
4. Remove front shocks. Neither the upper or lower shock bolts will be needed for the rest of the installation process.
5. Loosen and remove the three bolts holding each factory upper shock mount to the frame. Remove factory front upper shock mount. Note the proper location of each factory bolt and nut and set aside for later use during reinstallation.
6. Identify driver's side and passenger's side hoops by locating the small sticker on the front mounting plate. If this sticker is missing or unreadable, place the shock hoops on the ground with the flat surface of the mounting plate down. The side of the hoop that is raised off the ground is the side that will be toward the front of the vehicle once installed. It is impossible to mount these shock hoops on the incorrect side without modification.
7. Pre-fit both ***Icon Vehicle Dynamics Dual Shock Hoops*** to ensure all bolt holes line up correctly.
8. The shock hoop on the ***driver's side*** will utilize a stock steering box bolt for the forward hoop. To find the correct bolt to use hold the shock hoop up to the stock shock tower mounting location. Notice which steering box bolt will be removed. Set aside the shock hoop and remove the correct steering box bolt and discard the stock washer. The stock washer will not be used and is replaced by the shock hoop.
9. Install the new ***Icon Vehicle Dynamics Dual Shock Hoop*** in the factory location using the three factory bolts and **RED LOCTIGHT 271**. Torque factory bolts to **76 lb-ft** (FORD factory specifications). Reinstall the stock steering box bolt and secure the front mount of the hoop. Torque steering box bolt to **40 lb-ft**. The rear hoop on the driver's side will utilize an unused factory fixture hole. Use the

- supplied 1/2" x 1 1/2" grade 8 bolt, two washers and a 1/2" Nylock nut and **RED LOCTIGHT 271**. Be sure to use only one washer on each side of the frame! Torque this bolt to **90 lb-ft**.
10. For the **passenger side** Dual Shock Hoop a hole will need to be drilled for the front hoop. To do this mount the Shock Hoop to the frame in the factory shock tower location using the three factory bolts and **RED LOCTIGHT 271**. Torque factory bolts to **76 lb-ft** (FORD factory specifications). Install the supplied 1/2" x 1 1/2" grade 8 bolt, two washers, Nylock nut and **RED LOCTIGHT 271** to secure the rear hoop to the frame. Be sure to use only one washer on each side of the frame! Torque to **90 lb-ft**. The **Icon Vehicle Dynamics Dual Shock Hoop** is now in place and ready. Using a 1/2" drill bit, drill a hole into the frame through the front hoop. Install the remaining 1/2" x 1 1/2" bolt, two washers, Nylock nut and **RED LOCTIGHT 271**. Be sure to use only one washer on each side of the frame! Torque to **90 lb-ft**.
 11. Install one supplied 5/8" x 1 3/8" steel sleeve into the upper shock bushing of each shock. This will allow you to use the supplied 1/2" x 6.5" grade 8 bolt we have supplied for your application. Do not discard the two remaining steel sleeves, they will be needed for the lower shock mount!
 12. Install shocks onto upper shock mount: Insert one supplied 1/2" washer onto one supplied 1/2" x 6.5" grade 8 bolt. Slide the shock onto the bolt (the side you installed the steel sleeve in). Slide one more 1/2" washer onto the bolt. Begin sliding the bolt through the bung on the **Icon Vehicle Dynamics Dual Shock Mount**. Slide one more washer onto the bolt, the second shock, one more washer and the 1/2" Nylock nut. **DO NOT** tighten at this stage of installation. At this point each shock will have one washer on each side of the bushings. This is the requirement for the rest of the installation process.
 13. Install shocks onto lower factory mount: The lower shock mount will use the supplied 1/2" x 6.5" bolt. (Using a 1/2" drill bit, drill the factory lower shock mount to allow the hardware to fit). Insert one 1/2" washer onto the supplied 1/2" x 6.5" bolt. Slide the bottom of the shock onto the bolt then slide on one more 1/2" washer. Compress shock and insert bolt into a factory shock mount tab. Do not go all the way through. At this point install one supplied 3/4" x 1 1/2" steel sleeve between the two factory lower shock mount tabs. Slide the bolt through the steel sleeve and continue through the second factory shock mount tab. Install one more 1/2" washer, the second shock, one more washer and the 1/2" nylock nut. ***Warning-If the supplied steel sleeve is not inserted between the factory lower shock mount tabs, the tabs may bend when the lower shock bolt is tightened. This may result in metal fatigue and eventual failure!***
 14. Use **RED LOC TIGHT 271** and torque upper and lower bolts to **76 lb-ft** (FORD factory specifications).
 15. Repeat steps 11-14 for the other side of the vehicle.
 16. Reinstall the front wheels. Consult vehicle owner's manual.

RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.

For technical assistance or suggestions on how to make our product better call (951) 689-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.