

7929 Lincoln Ave. Riverside, CA 92504  
Phone: 951.689.ICON | Fax: 951.689.1016

PART #	DESCRIPTION
33099	99-04 FSD 3" HANGER KIT

COMPONENTS INCLUDED	
(1) 134300 FSD 3" HANGER (DRVR) (1) 134301 FSD 3" HANGER (PASS)	(2) 134302 FSD FRONT 3" SHACKLE (1) 34099H 3"/4.5" HANGER HARDWARE KIT
HARDWARE INCLUDED	
34099H HARDWARE KIT	
(2) 139012 SLEEVE .750 X .510 X 1.00 (2) 605304 1/2-13 X 2.250 HHCS	(2) 605321 1/2-13 NYLOCK NUT (4) 605330 1/2 FLAT WASHER
TOOLS REQUIRED	
FLOOR JACK JACK STANDS TORQUE WRENCH	
TECH NOTES	
N/A	



**WARNING!**

**\*\* 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!**

**\*\* ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.**

**\*\* ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLATION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.**

**INSTALLATION**

1. Remove front bumper.
2. Raise vehicle with floor jack, and support frame with jack stands. Do not work on the vehicle with it being supported by the floor jack alone.
3. Remove front tires and set aside.
4. Remove the sway bar end links from the sway bar and frame mounts. Set aside.
5. Loosen axle u-bolts until the center pin clears the hole on the axle perch. Do not remove the u-bolts from the vehicle. This will help in re-hanging the springs later.
6. Support driver side front axle with floor jack. Axle just needs to rest on the jack, DO NOT APPLY PRESSURE TO THE SPRING!
7. Loosen and remove the driver side front spring bolt that holds the spring to the front hanger.
8. Loosen and remove both of the driver side shackle bolts and shackle.
9. Remove the seven (7) mounting bolts from the front spring hanger. Then remove the spring hanger from the truck.
10. Install the new driver side spring hanger and re-install the mounting bolts. Loc Tight and torque bolts to original Ford Specifications.
11. Install the spring into the hanger and re-install the OEM bolt and nut. Do not tighten the bolt at this time.
12. Install the new shackle and the OEM bolts and nuts. Do not tighten the bolts at this time.
13. Lower the jack and allow the axle to rest on the u-bolts.
14. Support passenger side front axle with floor jack. Axle just needs to rest on the jack, DO NOT APPLY PRESSURE TO THE SPRING!
15. Loosen and remove the passenger side front spring bolt that holds the spring to the front hanger.
16. Loosen and remove both of the passenger side shackle bolts and shackle.

17. Remove the seven (7) mounting bolts from the front spring hanger. Then remove the spring hanger from the truck.
18. Install the new passenger side spring hanger and re-install the mounting bolts. Loc Tight and torque bolts to original Ford Specifications.
19. Install the spring into the hanger and re-install the OEM bolt and nut. Do not tighten the bolt at this time.
20. Install the new shackle and the OEM bolts and nuts. Do not tighten the bolts at this time.
21. Raise the passenger side axle with the jack until the spring pin is located in the hole on the axle perch and the spring is seated on the axle. Torque u-bolts to original Ford Specifications.
22. Raise the driver side axle with the jack until the spring pin is located in the hole on the axle perch and the spring is seated on the axle. Torque u-bolts to original Ford Specifications.
23. Install the tires and snug down the lug nuts. Lower the truck to the ground, Torque the lug nuts to original Ford Specifications.
24. Loc Tight and torque front spring hanger bolts and shackle bolts to original Ford Specifications.
25. Install aluminum spacers from behind side bumper mount to new front spring hanger. Adjust bumper for alignment.
26. Headlight readjustment may be necessary.
27. Drive the vehicle for several miles and recheck all clearances and bolt torque.

**VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.**

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

### **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.

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.



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PART #	DESCRIPTION
33100	99-04 FSD 1.375" BUMP STOP SPACER KIT

COMPONENTS INCLUDED	
(2) 134055 99-04 FSD 1.375" BUMP STOP SPACER, POWDERCOATED BLACK	
HARDWARE INCLUDED	
(4) 605103 3/8-16 X 2.750 HHCS (4) 605121 3/8-16 NYLOCK NUT (8) 605133 3/8 FLAT WASHER	
TOOLS REQUIRED	
TORQUE WRENCH	
TECH NOTES	
N/A	



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**INSTALLATION**

1. ENSURE TRUCK IS IN GEAR OR IN PARK, SET PARKING BRAKE, TURN OFF ENGINE AND CHOCK TIRES!
2. Pay special attention to the orientation of the factory bump stop, they must be mounted correctly. Remove factory bump stops. Your new ICON bump stop spacer will be mounted between the factory bump stop and the frame using the supplied hardware.
3. Place one washer onto each of the supplied bolts.
4. Slide two bolts up through the factory bump stop and then through the ICON Bump Stop Spacer.
5. Be sure to install the bump stop spacer so the ICON logo is visible.
6. Install bump stop assembly into the original factory bump stop mounting holes on the frame.
7. On the other side of the frame, where the bolts protrude, install one more washer on each bolt and finally put one nylon lock nut on each bolt.
8. Tighten bolts to 30 lb-ft
9. Repeat steps 3-8 for the other side of the truck.
10. A periodic inspection of all bolts and torque specifications is recommended!

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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.

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PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

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