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PART #	DESCRIPTION
61950	08-UP FSD COILOVER CONVERSION SHOCK MOUNT KIT

COMPONENTS INCLUDED	
(2) 164017 2008-UP FSD C/O LOWER MOUNT (1) 61950H 08+ FSD COILOVER HARDWARE KIT	(1) 164022 2008-UP FSD C/O MOUNT (DRVR) (1) 164023 2008-UP FSD C/O MOUNT (PASS)
HARDWARE INCLUDED	
61950H HARDWARE KIT	
(3) 164024 2008-UP FSD C/O NUT PLATE (6) 605011 5/16-18 X .750 BOLT (6) 605015 5/16-18 NYLOCK NUT (12) 605016 5/16 FLAT WASHER (18) 605302 1/2-13 X 1.500 BOLT	(6) 605308 1/2-13 X 3.000 BOLT (24) 605321 1/2-13 NYLOCK NUT (48) 605330 1/2 FLAT WASHER (2) 605806 M14-2.00 X 30MM BOLT
TOOLS REQUIRED	
JACK JACK STANDS GRINDER W/ CUT-OFF WHEEL DRILL 17/32" DRILL BIT AIR CHISEL BLACK SPRAY PAINT	TORQUE WRENCH 7/16" SOCKET / WRENCH 3/4" SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 22MM SOCKET / WRENCH
TECH NOTES	
<p>1. THESE PARTS ARE PACKAGED IN TWO BOXES. THE DRIVER SIDE SHOCK HOOP BOX INCLUDES THE LOWER MOUNTS AND HARDWARE KIT.</p> <p>2. RESERVOIR MOUNTING HARDWARE IS INCLUDED WITH ICON COILOVER SHOCK KIT.</p>	



**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 INSTALLTION 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

- Using a properly rated jack, raise the front of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the front wheels.
- Remove the factory coil buckets. There are five rivets on the side of the frame and two on the bottom of the frame that need to be removed in order to remove the bucket. Use a die grinder with a cut off wheel to grind slits all the way through the head of the rivets making an "X". Use an air hammer with a chisel tip to shear the head off the rivet. Using a blunt point in the air hammer, or a hammer and punch, drive the remaining piece of the rivet out. Remove the bucket from the frame. [FIGURE 1]

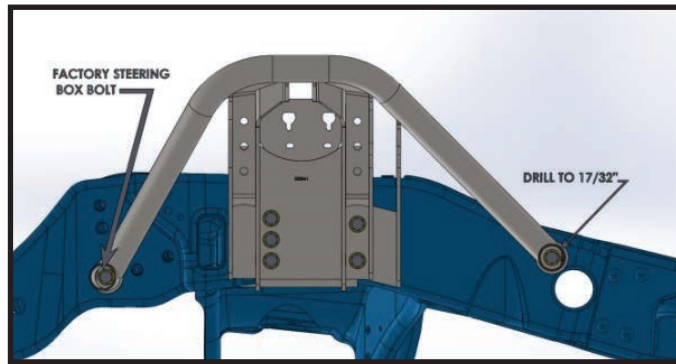
FIG.1



- Drill the rivet holes in frame to 17/32". Sand any burrs flat, and paint exposed metal to prevent corrosion.

4. Remove lowest front factory steering box bolt as shown using an 18mm socket/wrench. [FIGURE 2]

FIG.2



5. Position the coilover mount (164022) against the frame and install the supplied (605302) bolts with washers and nuts to hold the hoop in position. Do not tighten.

6. Install the factory steering box bolt using an 18mm socket/wrench [Torque to factory spec]. If the center section bolts are tight, this bolt will be hard to install.

7. Use a 3/4" socket/wrench to tighten all 1/2" hardware. [Torque to 78 ft-lbs]

8. Center punch the rear flag tube hole and drill to 17/32".

9. Install a (605302) bolt using a 3/4" socket/wrench. Inside the frame rail, use the provided nut plate (164024). [Torque to 75 ft-lbs]

10. Remove the factory lower spring seat from the axle using a 21mm socket/wrench and install the new lower shock mount (164017) using the supplied (605806) bolt and a 22mm socket/wrench. [Torque to 110 ft-lbs] [FIGURE 3]

FIG.3



11. Using a 7/16" socket/wrench, attach the ABS lines to the tabs on the lower mount using 5/16" hardware. [FIGURE 3]

12. Install the coilover with the reservoir hose pointing toward the front of the truck using the (605308) bolts. Secure the reservoir to the front hoop tube as shown with the hourglass bushings and hose clamps. [FIGURE 4]

FIG.4



13. If using a secondary shock, install at this time and secure reservoir to the rear hoop tube. The lower bearing spacers provided with the secondary shock will offset the secondary shock toward the coilover for extra tire clearance. Use the factory lower bolts and the supplied (605308) bolt for the upper mount.

14. Repeat steps on passenger side. Note that the front and rear tube require drilling and will use the (605302) bolts and supplied nut plates (164024).

15. Refer to the ICON Box Kit (64050, 67020) instructions for final installation.

**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.

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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.

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.

# **ICON VEHICLE DYNAMICS**

PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

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