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PART #	DESCRIPTION
64050	2008-UP FSD FRONT 4.5 BOX KIT

COMPONENTS INCLUDED	
(2) 164003 05-UP FSD UPPER BRAKE LINE DROP BRACKET (2) 164018 08-UP FSD SWAY BAR DROP BRACKET	(2) 167004 05-UP FSD FRONT BUMPTOP SPACER (1) 64050H HARDWARE KIT
HARDWARE INCLUDED	
64050H HARDWARE KIT	
(2) 605011 5/16-18 X .750 BOLT (2) 605012 5/16 SPLIT LOCK WASHER (4) 605101 3/8-16 X 1.000 BOLT	(4) 605133 3/8" FLAT WASHER (2) 605803 M8-1.25 X 70MM BOLT
TOOLS REQUIRED	
JACK JACK STANDS BRASS HAMMER STEEL HAMMER CUTTING WHEEL PAINT TORQUE WRENCH 3/8" SOCKET / WRENCH 1/2" SOCKET / WRENCH 5/8" SOCKET / WRENCH	3/4" SOCKET / WRENCH 15/16" SOCKET / WRENCH 10MM SOCKET / WRENCH 13MM SOCKET / WRENCH 15MM SOCKET / WRENCH 16MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 24MM SOCKET / WRENCH 30MM SOCKET / WRENCH
TECH NOTES	
<p><b>REQUIRED KITS:</b></p> <p>ICON 4-LINK KIT PN: (61500 2005-2010) (61550 2011-16) (61560 2017-UP) OR ICON RADIUS ARM DROP KIT PN: (64040 2005-2010) (64045 2011-16) (64055 2017-UP)</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 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

- 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 front wheels.
- Remove the sway bar links from the sway bar using an 18mm socket/wrench. Leave them connected to the differential. [FIGURE 1]

FIG.1

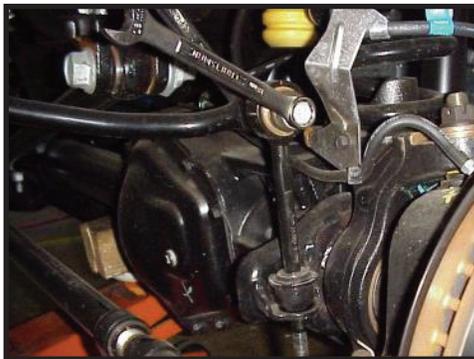


FIG.2



- Disconnect the upper brake line brackets from the frame using a 13mm socket/wrench and lower brake line brackets from the differential using a 10mm socket/wrench. [FIGURE 2]

- 4.** On the driver side of the track bar, remove the nut and the upper track bar bolt using two 30mm socket/wrenches. [FIGURE 3]

**FIG.3**



- 5.** Support the axle with a floor jack and remove the front shocks. The shocks are limiting droop so make sure that the axle is supported or it will fall when the shocks are removed. (21mm socket/wrench, 18mm socket/wrench)
- 6.** Slowly lower the axle, the coils will unload from the mounts and can be removed. Be careful not to stretch or damage any lines connected to the axle or radius arms.
- 7.** Refer to 4-Link instructions (61500 2005-2010), (61550 2011-2016), (61560 2017-UP) and/or radius arm kit (64040 2005-2010), (64045 2011-2016), (64055 2017-UP) and install now.
- 8.** Lower the axle just enough to install the new springs. Place the original rubber isolator on top of the new coil and install. Be careful to not stretch or damage any lines. Check the rotation/clocking of the coil to make sure it is properly seated in the lower spring perch.
- 9.** Lift the axle high enough to connect the shocks but be careful not to lift the truck off of its supports. Use the original bolt on the lower shock mount and tighten with an 18mm socket/wrench [Torque to factory spec]. Tighten the stem top nut using a 3/4" socket/wrench. (Refer to shock instructions)
- 10.** Slowly lower the axle after the shocks are installed.
- 11.** If an ICON adjustable track bar (64031 or 64038) was purchased, refer to track bar installation instructions.
- 12.** Reconnect the track bar to the frame bracket using the factory hardware and (2) 30mm. You may have to raise or lower the axle to help line up the holes. [Torque to factory spec]
- 13.** Pry the front bump stops out of the bump stop cup. Remove the bolt in the center of the cup using a 10mm. Install the bump stop spacer between the cup and the frame with the supplied bolt. The cup has a flat side on its outer flange. Rotate the flat side to be near the coil for added clearance. [Torque to factory spec] [FIGURE 4]

**FIG.4**



- 14.** Push the bump stops back into the cups until they should clip/pop into place.
- 15.** Remove the sway bar from the frame using a 13mm.
- 16.** If needed, some trucks require cutting the sway bar studs shorter. Using a cutting wheel, cut 3/8" off the end of the stud. Sand the edges to remove any burrs and paint exposed metal.
- 17.** Install sway bar drop brackets (164018) using the factory hardware and a 13mm. [Torque to factory spec]

**18.** Using 3/8" hardware and a 9/16" socket/wrench, install the (164018) sway bar drop brackets. [Torque to 33 ft-lbs] [FIGURE 5]



**FIG.5**

**19.** Reconnect the sway bar to the stock links using an 18mm. [Torque to factory spec]

**20.** Install the upper brake line brackets using the factory bolts. This bracket uses the factory bolt on the top and a supplied 5/16" bolt on the bottom. Using (2) 1/2" wrenches to tighten [Torque to 19 ft-lbs]. Carefully bend and reroute the hard line. 2005-2010 [FIGURE 6] 2011-UP [FIGURE 7]



**FIG.6**



**FIG.7**

**21.** If an ICON dual steering stabilizer kit (PN: 65000) has been purchased, refer to steering stabilizer instructions and install now.

**22.** Reinstall wheels and lower the vehicle to the ground. [Torque to factory spec]

**23.** Have the vehicle professionally aligned.

***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.