

DESCRIPTION
11-16 FORD SUPER DUTY 4 LINK KIT

COMPONENTS INCLUDED	
164501 (BOX 2 OF 3)	
(2) 164013 UPPER LINK WELDMENT (4) 167018 HEIM SPACER COM 16 X .750 X 2.800	(2) 295501 COM 16T BEARING (2) 605945 WHT-175 SPIRAL RETAINING RING
164502 (BOX 3 OF 3)	
(2) 164012 LOWER LINK WELDMENT (2) 167014 L/R ADJUSTER SLEEVE (4) 167017 HEIM SPACER JM16T X .750 X 2.80	(2) 295510 JM161T 1-14 RH ROD END (4) 605145 3/8-16 X 1.000 12 PT BOLT
164503 (BOX 1 OF 3)	
(1) 61550H 2011-UP FSD 4-LINK HARDWARE KIT (1) 164025 2011-UP FSD 4-LINK BRACKET (DRVR)	(1) 164026 2011-UP FSD 4-LINK BRACKET (PASS)
61550H HARDWARE KIT	
(6) 605200 7/16-14 X 1.500 BOLT (6) 605220 7/16-14 NYLOCK NUT (12) 650230 7/16 FLAT WASHER (2) 605601 3/4-10 X 5.500 BOLT (2) 605602 3/4-10 X 5.000 BOLT	(4) 605603 3/4-10 X 1.000 BOLT (4) 605620 3/4-10 NYLOCK NUT (8) 605630 3/4 FLAT WASHER (4) 605631 3/4 SPLIT LOCK WASHER (2) 605925 PLASTIC PUSH IN CLIP - ABS HOLDER
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH DRILL 7/16" DRILL BIT	5/8" SOCKET / WRENCH 1 1/8" SOCKET / WRENCH 15MM SOCKET / WRENCH 24MM SOCKET / WRENCH 27MM SOCKET / WRENCH
TECH NOTES	
N/A	

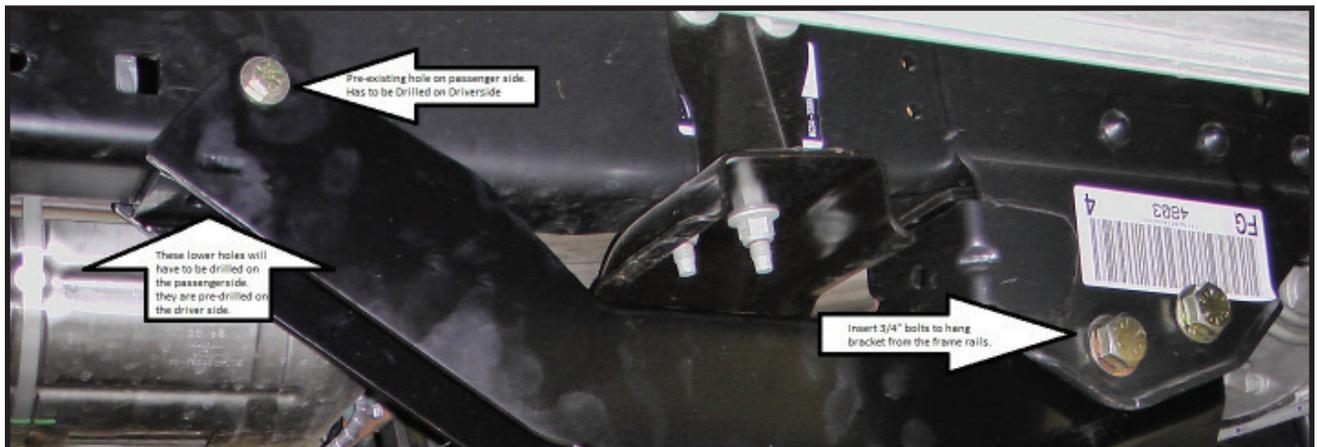


WARNING!
<p><b>** READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!</b></p> <p><b>** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.</b></p> <p><b>** 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.</b></p>

## 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.
- Some models have a transfer case skid plate that must be removed first. Use a 15mm socket/wrench to loosen and then remove the nut clips from the frame.
- Support the front axle and radius arm with a jack, and unbolt the radius arm from the driver side using a 24mm and 27mm socket/wrench. Leave the passenger side radius arm attached to keep the axle from rotating.
- Position the 4-link bracket with the weld nuts into the stock radius arm pocket. The welded nuts will line up with the upper forward hole in the stock radius arm pocket. Loosely install two (605603) bolts with split lock washers (605631) into the 4-link brackets. [FIGURE 1]

FIG.1



**5.** Rotate the bracket up until it meets the frame. Install two (605200) bolts with washers (605230) and nylock nuts (605220) through the two holes in the bottom of the frame rail. [Torque to 50 ft-lbs]

**6.** The horizontal hole in the bracket that hits the side of the frame will need to be drilled to 7/16". Use the bracket as a guide to center punch the holes, then proceed to drill holes. Install a (605200) bolt with washer (605230) and nut (605220). [Torque to 50 ft-lbs]

**7.** On the passenger side the hole in the side of the frame is there, but the holes in the bottom will need to be drilled. After installing the (605603) bolts, the bracket can be hung from the frame by installing one (605200) bolt through the side hole. [Torque to 50 ft-lbs]

**8.** Using the bracket as a guide, center punch and drill the two holes on the bottom of the frame to 7/16". Install both (605200) bolts. [Torque to 50 ft-lbs] [FIGURE 2 & 3]



FIG.2



FIG.3

**9.** Install the new upper link (164501) on the frame bracket using the supplied (605601) bolt. Be sure the ABS mounting hole is facing up then install the axle side of the link using the stock bolt. Leave the bolts loose for now. [FIGURE 4]



FIG.4

**10.** Next install the lower link (164502) on the axle using the stock radius arm bolt. This is the longer link with the rod end, collar, and double pinch bolts. First be sure the double pinch bolts are in, but loose so the adjustable collar can turn freely. Install the link on the frame/bracket using the supplied (605602) bolt. Swing the lower link into position and align the lowest 4-link frame bracket hole with the lower link. Insert the (605602) bolt with a washer (605630), and install a washer (605630) and nylock nut (605620) on the other side.

**11.** Leave the pivot bolts loose while repeating steps for the passenger side installation.

**12.** Now you should have both of the frame brackets and all four links installed loosely on the vehicle. Using a 1 1/8" socket/wrench tighten all four 3/4" bolts [Torque to 260 ft-lbs]. Use a 24mm and a 27mm socket/wrench to tighten factory bolts at the axle. [Torque to factory spec]. [FIGURE 5]



FIG.5

**13.** Press the plastic tab (605925) into the outer hole on each upper link. Place the stock ABS wire into the plastic holder and close, locking the ABS wire in place.

**14.** Install the front wheels and lower vehicle to the ground. [Torque to factory spec]

**15.** Loosen the pinch bolts on the lower links. Adjust the length of the link as needed for alignment. Move the slit in the collars to match up with the slit in the link. Tighten the (4) 3/8" 12 point bolts by alternating back and forth between the bolts. [Torque to 35 ft-lbs]

**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**

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