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PART #	DESCRIPTION
65505	17-UP FSD REAR 5" LEAF SPRING KIT

COMPONENTS INCLUDED	
(2) 168505 08-UP FSD 5" REAR LEAF SPRING	(2) 168512 LEAF SPRING BUSHING
HARDWARE INCLUDED	
(1) 169004 WASHER 1.750 X .880 X .375	(1) 605856 M22-2.5 X 150MM OEM FORD BOLT
TOOLS REQUIRED	
JACK JACK STANDS GRINDER W/ CUT-OFF WHEEL OR RECIPROCATING SAW TORQUE WRENCH 15/16" SOCKET / WRENCH	18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 24MM SOCKET / WRENCH 27MM SOCKET / WRENCH 30MM SOCKET / WRENCH
TECH NOTES	
<p>1. REQUIRES 11-UP FSD U-BOLT SPRING PLATE KIT (65501).</p> <p>2. FAILURE TO INSTALL WASHER (169004) OF THE FLANGE SIDE OF THE SUPPLIED BOLT (605856) WILL CAUSE THE BOLT TO MAKE CONTACT WITH THE FUEL TANK.</p> <p>3. INSTALLING THIS SPRING PACK STRAIGHT TO THE AXLE (WITHOUT A BUMP STOP SPACER/ BLOCK) IS NOT RECOMMENDED BY ICON. DAMAGE TO THE FRAME/SHOCK WILL OCCUR IF INSTALLED WITHOUT THE FACTORY BLOCK OR BUMP STOP SPACER.</p>	



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 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.</b></p>

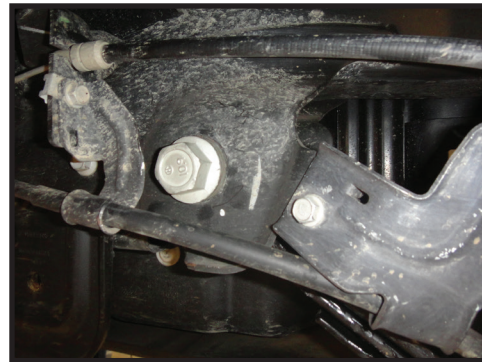
## INSTALLATION

- Using a properly rated jack, raise the rear 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 rear wheels.
- Remove both shocks from the lower shock mounts using an 18mm & 21mm. [FIGURE 1]

FIG.1



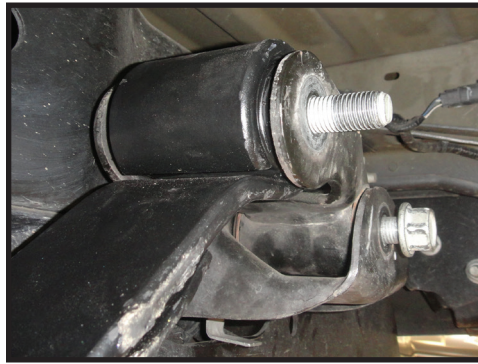
FIG.2



- Loosen the spring bolts at the front frame pocket using a 30mm & 30mm. [FIGURE 2]

4. Loosen the upper and lower shackle bolts using a 21mm & 24mm. [FIGURE 3]

FIG.3



5. Support the axle with a floor jack. Remove the u-bolts on the driver side only (21mm). Keeping the passenger side u-bolts tight while changing the driver side spring. This keeps the axle stable while being moved around.

6. On the driver side, the front spring bolt will not come out because it will contact the fuel tank. Slide the bolt part way out and cut the head of it off using a reciprocating saw or abrasive cut off wheel.

7. Lower the axle using the floor jack until the spring separates from the axle pad/block.

8. Remove the bolt connecting the shackle to the frame spring mount.

9. Carefully remove the spring/shackle from the truck. A helper is highly recommended as the spring pack is very heavy.

10. With both springs next to each other, make sure the new spring is oriented correctly (military wrap towards the front). Take the shackle off of the factory spring and put the shackle on the new spring in the same orientation. Use the factory bolt going in the same direction. Installing this bolt backwards will cause contact with the frame.

11. Carefully lift the new spring/shackle into place. A helper is highly recommended as the spring pack is very heavy.

12. Slide the supplied 22mm bolt in the leaf spring mount and front spring eyelet with the supplied washer (169004) installed under the flange. **CAUTION! FAILURE TO INSTALL WASHER UNDER THE BOLT HEAD WILL CAUSE BOLT TO CONTACT THE FUEL TANK.**

13. Slide the factory bolt through the frame bracket and shackle.

14. Using the floor jack, lift the axle with the lift block on the spring pad. Guide the hole in the lift block to meet the center pin of the spring.

15. Place the u-bolt plate (65501) on top of the spring. Install the u-bolts and tighten using a 15/16". [FIGURE 5 & 6]

FIG.5

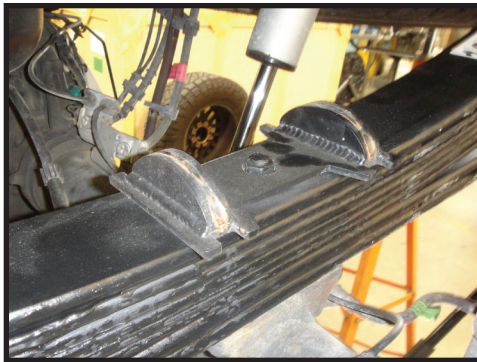
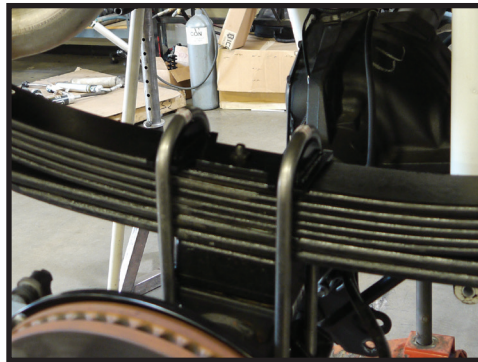


FIG.6



16. With all driver side bolts in place and snug, repeat steps 5-15 for the passenger side.

17. Connect shocks using factory hardware and torque to factory spec. (18mm, 21mm)

18. Install the wheels and torque lug nuts to factory spec. Carefully lower the truck back to the ground.

19. Torque all spring bolts to factory spec. [Torque u-bolts to 170 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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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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