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PART #	DESCRIPTION
78702	11-UP GM HD TORSION DROP/ BUMP STOP SPACER KIT

COMPONENTS INCLUDED	
(2) 174040 11-UP GM HD TORSION DROP SHACKLE (2) 174041 11-UP GM HD BUMP STOP EXTENDER	(2) 174046 11-UP GM HD BUMP STOP RETAINER (1) 78702H HARDWARE KIT
HARDWARE INCLUDED	
(2) 605114 3/8-16 X 6.500 BOLT (2) 605113 3/8-16 X 3.500 BOLT (2) 605121 3/8-16 LOCK NUT (6) 605133 3/8 SAE FLAT WASHER	(4) 605455 9/16 F-436 FLAT WASHER (2) 605442 9/16-12 X 4.000 BOLT (2) 605450 9/16-12 LOCK NUT
TOOLS REQUIRED	
TORQUE WRENCH 21MM SOCKET / WRENCH 27MM SOCKET / WRENCH	9/16" SOCKET / WRENCH 13/16" SOCKET / WRENCH 7/8" SOCKET / 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.**

INSTALLATION

1. Please refer to install instructions 78700 to get to this point of the install. The sub-frame drop brackets should be installed, the differential should be mounted to the differential drop brackets, the axle, hub, rotor, knuckle, and LCA should be off of the truck. The LCA should be separated from the knuckle.
2. Remove the torsion cross member using a 21mm. The O2 sensor wire is clipped to the torsion cross member. Pull the wire holder out of the torsion cross member prior to removing the cross member.
3. Lift the LCA into position in the sub-frame brackets. The M18-2.5 X 130mm bolt mounts in the front pivot and is fed in from the front with the nut towards the back. The washer (Part #170149) supplied in the 78000 kit goes in front of the front LCA bushing. The M18-2.5 X 140mm bolt mounts in the rear pivot and is fed in from the back with the nut towards the front. Do not tighten yet. (FIGURE 1)
4. Slide the Torsion bar all the way through the hex in the LCA.

FIG.1



FIG.2



5. Install the drop shackles (Part #174040) on the side of the cross member using the factory M18 bolts and 3/8 bolts. Leave loose for now.
6. Install the torsion cross member with the shackles onto the original frame mount. Slide the supplied 9/16 bolt through the upper hole in the shackle and the original torsion cross member mount. Tighten using a 13/16 and a 7/8 [Torque to 110 ft-lbs]. (FIGURE 2)
7. Use a 21mm to tighten the factory M18 hardware, and a 9/16 to tighten the 3/8 hardware [Torque factory hardware to factory spec, Torque 3/8 hardware to 30 ft-lbs].
8. Rotate the LCA up until it is horizontal. Hold the torsion key in place as you slide the torsion bar through the hex of the LCA and the front window of the torsion cross member and torsion key. (The torsion key should be about 180 degrees opposite of the LCA)

9. Pry down on the LCA slightly as you slide the torsion keeper block through the cross member. Then thread the torsion adjuster bolt into the torsion block. (FIGURE 3)

FIG.3



10. Tighten the LCA pivot bolts with a 27mm [Torque to 200 ft-lbs].

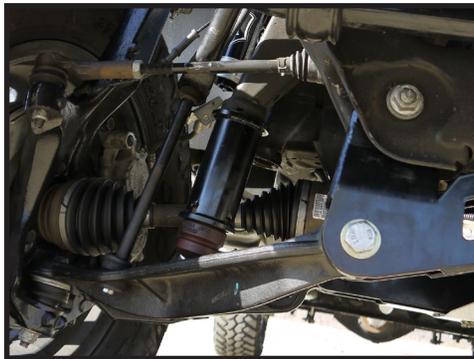
11. Slide the bump stop retainer (Part #174046) into the forward-most bump stop cup. Rotate the retainer 45 degrees and pull to make sure it is catching on the teeth inside the bump cup.

12. Slide the supplied 3/8-16 X 6.5" bolt through the bump stop extender.

13. Hold the bump stop extender (Part #174041) over the bump stop cup while threading the bolt into the bump stop retainer. Tighten the bolt using a 9/16 [Torque to 30 ft-lbs].

14. Push the bump stop into the cup of the bump stop extender. (FIGURE 4)

FIG.4



15. Refer back to install instructions 78700 to continue install.

**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.

ICON VEHICLE DYNAMICS

PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

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