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PART #	DESCRIPTION
78703	11-UP GM HD TORSION RELOCATOR KIT

COMPONENTS INCLUDED	
(1) 174034 11-UP GM HD TORSION RELOCATOR DRIVER (1) 174035 11-UP GM HD TORSION RELOCATOR PASSENGER	(1) 78703H TORSION RELOCATOR HARDWARE KIT
HARDWARE INCLUDED	
(2) 177051 11+ GM HD TORSION RELOCATOR SLUG (2) 605321 1/2-13 LOCK NUT (4) 605330 1/2 SAE FLAT WASHER (2) 605341 1/2-13 X 1.750 BOLT	(2) 605504 5/8-11 X 6.500 BOLT (2) 605520 5/8-11 LOCK NUT (2) 605530 5/8 FLAT WASHER
TOOLS REQUIRED	
CENTER PUNCH DRILL & 1/2" DRILL BIT TORQUE WRENCH	27MM SOCKET / WRENCH 3/4" SOCKET / WRENCH 15/16" SOCKET / WRENCH
TECH NOTES	
1. THIS KIT MUST BE USED WITH STOCK TORSION KEYS.	



**WARNING!**

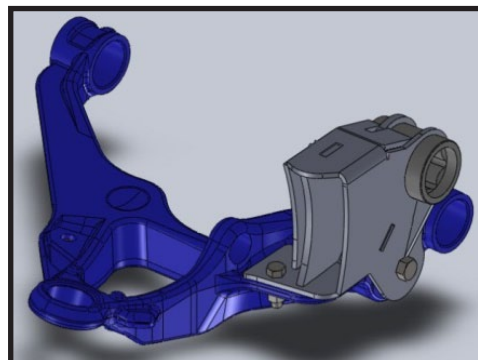
**\*\* READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!**

**\*\* 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. Slide the filler bung (Part #177051) into the hex in the LCA.
3. Slide the torsion relocator bracket over the arm and filler bung. (This should be pretty tight fitting)
4. Slide the supplied 5/8 bolt through the bracket and filler bung.
5. Tap the bracket forward on the LCA with a plastic mallet. Make sure it is as far forward as it can go.
6. Mark and center punch the location (through the existing hole in the bracket) on the LCA.
7. Remove the relocator bracket from the LCA.
8. Drill a 17/32" hole through the LCA in the marked location.
9. Slide the relocator bracket over the LCA and filler bung and slide the 5/8 bolt (with washer) through the bracket and the filler bung. The bolt head should be on the back side of the LCA. The front side of the assembly does not use a washer. (FIGURE 1)
10. Install the supplied 1/2" bolt with washers and lock nut through the hole in the bracket and arm. Tighten with a 3/4 [Torque to 75 ft-lbs]. (FIGURE 1)

FIG.1



11. Tighten the 5/8 bolt using a 15/16 [Torque to 150 ft-lbs].

12. Make sure the foam bump stops are removed from their pockets.

13. Slide the torsion bar through the hole in the transmission cross member. Hold the torsion key in place as you slide the torsion bar through the front window of the torsion cross member and torsion key. Then rotate the torsion key down. (FIGURE 2, FIGURE 3)

FIG.2



FIG.3



14. Lift the LCA and guide the torsion hex over the torsion bar. (The LCA should be pointing up almost to the point of hitting the bumpstop brackets. (FIGURE 4)

FIG.4



15. Once the LCA has slid back far enough, rotate it down guiding the a-arm pivots into the sub-frame brackets (As you do this, the torsion key will rotate up into the torsion cross member). Line up the pivot holes and install the 18mm bolts supplied in the 78700 kit.

16. 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 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. Tighten with a 27mm [Torque to 200 ft-lbs] (FIGURE 5)

FIG.5



FIG.6



17. 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 6)

18. 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.

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## **ICON VEHICLE DYNAMICS**

PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

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