

7929 Lincoln Ave. Riverside, CA 92504
Phone: 951.689.ICON | Fax: 951.689.1016

PART #	DESCRIPTION
78586DJ	20 GM HD 2500/3500 BILLET UCA DJ PRO

COMPONENTS INCLUDED

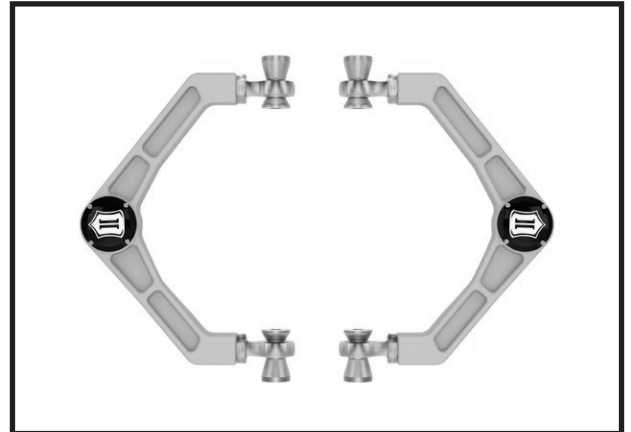
(1) 177527 GM HD BILLET UCA DRVR (1) 177528 GM HD BILLET UCA PASS (2) 170164 GM HD TOP OUT PAD (4) 177522 HEIM SPACER JM12 X 16MM X 1.965 (4) 177523 HEIM SPACER JM12 X 16MM X 3.275	(4) 295514 RSMX12T ROD END F1 FIT (8) 605002 6-32 X .5 SOCKET HEAD SCREW (4) 605740 7/8-14 JAM NUT (1) 605968 VIBRATITE BLUE 2ML BULLET
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TOOLS REQUIRED

JACK JACK STANDS ABRASIVE CUTTING WHEEL SANDER PAINT LARGE ADJUSTABLE WRENCH TORQUE WRENCH	WELDER (OPTIONAL) 7/64" ALLEN 10MM SOCKET / WRENCH 13MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 24MM SOCKET / WRENCH
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TECH NOTES

1. ALL ICON UPPER CONTROL ARMS HAVE BEEN ENGINEERED TO ALLOW FOR THE MOST POSSIBLE CASTER, WHILE STILL ALLOWING THE VEHICLE TO BE PROPERLY ALIGNED. NOTIFY YOUR PROFESSIONAL ALIGNMENT SHOP OF THIS INFORMATION SO THAT MAXIMUM RIDE QUALITY CAN BE ACHIEVED.
2. ICON DELTA JOINTS ARE PRE-GREASED FROM THE FACTORY. ICON RECOMMENDS GREASING THE DELTA JOINT EVERY 3,000 MILES (OR EVERY OIL CHANGE). ADD NEW GREASE UNTIL ALL OF THE OLD GREASE IS EXPELLED FROM THE BOTTOM OF THE DELTA JOINT ASSEMBLY, WIPE AWAY EXCESS WITH A RAG OR SHOP TOWEL.
3. DO NOT EXCEED 2.5" ADJUSTMENT FROM THE CENTER OF THE ROD END TO THE EDGE OF THE BILLET UPPER CONTROL ARM. FAILURE CAUSED BY EXCESSIVE ADJUSTMENT WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY. REFER TO TECH NOTE PHOTO.
4. ESTIMATED INSTALL TIME: 2-3 HOURS.



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

1. 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.
2. Using a 21mm socket/wrench, loosen torsion bar preload bolt and release tension. [FIGURE 1]

FIG.1



3. Using a jack, slightly lift the lower control arm to prevent the suspension from being at full droop.

4. Loosen the ball joint nut using an 18mm. [FIGURE 2]

FIG.2



5. Support the spindle so that it does not overextend the CV joints when detached.

6. With the upper control arm disconnected from the spindle, loosen the upper control arm from its mounts in the frame using a 24mm wrench/socket. Remove OEM upper control arm. Be sure to keep the cam bolts in the same orientation. [FIGURE 3 & 4]

FIG.3



FIG.4



7. Disconnect the brake line using a 13mm. [FIGURE 5 & 6]

FIG.5



FIG.6



8. With the UCA and brake line out of the way, remove the top of droop stop from the front UCA frame pocket by cutting the metal in a straight line. Be careful to cut only enough to free the top droop stop. Once removed, clean up the frame and either paint the exposed metal or for a more finished look weld on the supplied top out plate and paint. [FIGURE 7, 8, 9]

FIG.7



FIG.8

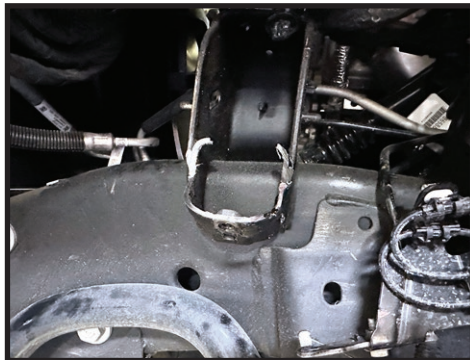


FIG.9



9. Reinstall the factory brake link in to place withing the OE bolt and torqure to factory specs.

10. Each arm is labeled which side it should be installed on. The supplied short spacers go on the inside of the arm and the supplied long spacers go on the outside of the arm.

11. Adjust the rod ends in the arm to measure 2" from the center of the eyelet to the aluminum arm. Tighten the Jam nut using a large adjustable wrench. Be sure to keep the rod end vertical when tightening the Jam nut. [Torque to 180 ft-lbs]

12. With the control arm completely assembled, slide the arm into the upper mounts and insert the OEM hardware loosely. [FIGURE 10 & 11]

FIG.10



FIG.11



13. Rotate the upper control arm downward and install the stem through the spindle taper. Install the supplied flanged nut on the taper pin. [Torque to 60 ft-lbs] [FIGURE 12]

FIG.12



14. Tighten the upper control arm mounts on the chassis using a 24mm socket/wrench. [Torque to factory spec]

15. Repeat steps on opposite side.

16. Install the dust cover. Apply thread locker to the (4) allen head screws. Use a 7/64" allen. DO NOT over tighten. [FIGURE 13]

FIG.13



17. Install wheels and lower vehicle to the ground. [Torque to factory spec]

18. 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.

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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.

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.



7929 Lincoln Ave. Riverside, CA 92504 Phone: 951.689.ICON Fax: 951.689.1016
www.iconvehicledynamics.com



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