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PART #	DESCRIPTION
IVD2120	1994-12 RAM HD FRONT SPACER KIT

COMPONENTS INCLUDED	
(2) 2120 94-12 RAM HD 4WD SPACER	
HARDWARE INCLUDED	
(6) 605830 M10-1.25 FLANGE NUT	
TOOLS REQUIRED	
FLOOR JACK JACK STANDS TORQUE WRENCH 8MM SOCKET / WRENCH 13MM SOCKET / WRENCH	15MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 24MM SOCKET / WRENCH 27MM 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.**

**\*\* 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.** Remove the sway bar links from the sway bar. (Set bushings, washers, and nuts aside.) Leave them connected to the differential. (15mm)
- 2.** Open the hood and disconnect both negative battery terminals. (8mm)
- 3.** Lift the front end of the truck and support the frame at the front frame rails with jack stands. NEVER WORK UNDER AN UNSUPPORTED VEHICLE.
- 4.** Remove tires.
- 5.** Support the axle with a heavy duty floor jack. With the housing supported, remove the lower shock mount bolts going through the axle housing. THE AXLE HOUSING IS EXTREMELY HEAVY AND IS LIMITED BY THE SHOCKS; MAKE SURE THE HOUSING IS SECURELY SUPPORTED BY THE JACK.
- 6.** Remove the track bar from the frame using a 24mm and a 27mm.
- 7.** Remove upper shock bushing and nut.
- 8.** Disconnect the brake line brackets located on each the side of the axle housing in between the control arms. (13mm) (Powerwagon models: disconnect wiring to front differential locker.)
- 9.** Slowly lowering the differential will begin to unload the coil springs.
- 10.** The factory upper control arms may bind on the frame before the suspension becomes completely unloaded. Remove the front bolt on both of the upper control arms to allow suspension to droop far enough to remove the coil spring. This may require some effort as the links might still be under a small amount of load. REMOVING THE UPPER ARMS WILL ALLOW THE HOUSING TO ROTATE FORWARD AND BACK, PROPERLY SUPPORT THE HOUSING USING (2) JACKS AS NEEDED. (18mm, 21mm)
- 11.** The axle will now only be supported by the lower control arms and jack, the axle is extremely heavy and extreme care must be taken when positioning the differential.
- 12.** Continue to slowly lower the differential, the coils will become fully unloaded from the mount, slowly lower the jack until the coil springs become loose enough to slip them out. Remove the coil isolator and stud ring.
- 13.** Remove the shock.

- 14.** Set the coil isolator on top of the coil. Make sure the end of the coil lines up with the isolator.
- 15.** Set the IVD spacer on top of the coil isolator.
- 16.** Slide the shock into the coil.
- 17.** Lift assembly up into the coil bucket and guide the bottom of the coil into the lower coil mount.
- 18.** Install the lower shock bolt. (21mm) [Torque to factory spec]
- 19.** Lift the differential slowly while guiding the shock into position.
- 20.** With stem bushings and bushing retainers on both above and below the shock mount, tighten the stem of the shock onto the shock tower. [Torque to factory spec]
- 21.** Reconnect the upper links and tighten to factory specs. (18mm, 21mm)
- 22.** Reconnect the track bar. (24mm & 27mm) [Torque to factory spec]
- 23.** Install the sway bar. (15mm) [Torque to factory spec]
- 24.** Connect the sway bar to the sway bar links using the stock bushings and washers. (15mm)
- 25.** Go back through and torque all the partially installed hardware to factory specs.
- 26.** Reconnect the brake lines in the stock location. (13mm) [Torque to factory spec] (Powerwagon models: Reconnect the wiring to the front differential locker)
- 27.** Reconnect both negative battery terminals. (8mm)
- 28.** Re-install the tires and lower vehicle to the ground. [Torque lugs nuts to factory spec]
- 29.** Check the torque on all hardware. Drive the truck 1-2 miles and re-torque all nuts, bolts and lugs. Re-center the steering wheel if necessary.

***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.