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PART #	DESCRIPTION
IVD4111	22-UP TUNDRA LEVEL LIFT

COMPONENTS INCLUDED	
(2) 4111 22-UP TUNDRA LEVELING SPACER	(2) 157554 BUMP STOP SPACER
HARDWARE INCLUDED	
(8) 605830 10MM FLANGE NUTS (2) 605882 M10-1.25 X 30MM SET SCREW	(1) 605968 VIBRATITE BLUE 2ML BULLET
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH LARGE ADJUSTABLE WRENCH 5MM HEX KEY 12MM SOCKET / WRENCH	14MM SOCKET / WRENCH 15MM SOCKET / WRENCH 19MM SOCKET / WRENCH 22MM SOCKET / WRENCH 24MM 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. Lift vehicle and securely place heavy duty jack stands under the manufacturer recommended lifting locations for the front of the vehicle. Take care when lifting the vehicle, and allow 3-4" of ground clearance from the tire. Remove front tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE.
2. Place a jack under the lower control arm to support it as you remove parts.
3. Loosen the lower control arm pivot bolts, so the arm can move easily. Do not remove the bolts. (24mm)
4. Remove the sway bar link. 19mm bolt on the lower control arm mount and 19mm on the sway bar side. [FIGURE 1]

FIG.1



5. Use a pry bar to remove the lower end of the link from the control arm stud. [FIGURE 2]

FIG.2



6. Disconnect the abs and brakeline brackets from the upper control arm, spindle and frame using a 12mm. [FIGURE 3, 4 & 5]

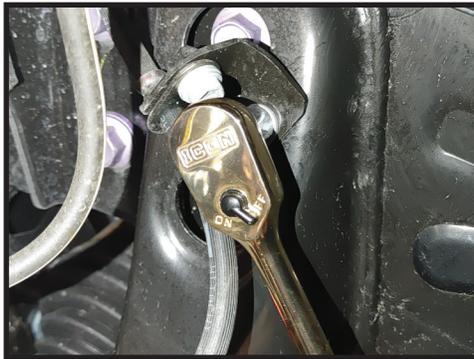
FIG.3



FIG.4



FIG.5



7. Loosen the upper control arm balljoint. Use a screwdriver and pliers to remove the cotter pin from the nut and a 19mm to loosen the nut. Leave the nut on for the next step. [FIGURE 6]

FIG.6



**8.** Use a hammer and strike the spindle on the flat spot to break free the balljoint taper from the spindle. A balljoint separator can also be used if available. With the balljoint free from the spindle, remove the nut and allow the upper arm to move out of the way. Support the spindle so the CV joints (if applicable) do not get damaged. [FIGURE 7]

FIG.7



**9.** With the upper control arm out of the way and spindle supported, remove the factory coilover. There are four 14mm nuts on top of the coil bucket, and one 22mm bolt and nut on lower control arm. To remove the coilover, push down on the suspension and pivot the top of the coilover out of the bucket, then lift the coilover out of the lower control arm. [FIGURE 8 & 9]

FIG.8



FIG.9



**10.** With the coilover removed, you can now bolt on the Icon spacer on to the top of the factory coilover. Use the factory nuts to bolt the spacer onto the coilover. The spacer will only go on one way. Tighten to factory spec. [FIGURE 10 & 11]

FIG.10

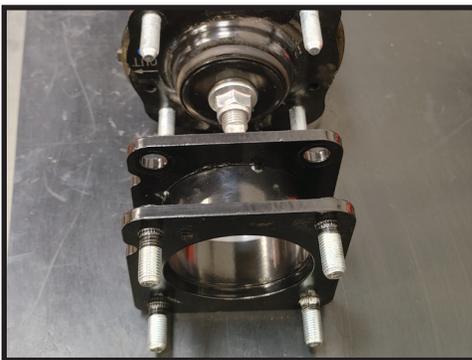


FIG.11



**11.** Reinstall the coilover with newly attached Icon spacer. Making sure orientation is correct. The 4 top studs are not equally spaced. Place the lower shock eyelet into the lower control arm first, then pivot the upper mount into the coil bucket.

**12.** Tighten the upper nuts to factory spec using a 15mm. [FIGURE 12]

FIG.12



**13.** Tighten the lower eyelet bolt to factory spec. [FIGURE 13]

FIG.13



**14.** Reinstall the upper control arm into the spindle and tighten the 19mm nut to factory spec. Do not forget the cotter pin. (If an Icon UCA was purchased, refer to those instructions now for proper installation)

**15.** Reinstall the ABS and brake line brackets using the factory hardware.

**16.** Reinstall the factory sway bar link using the factory hardware. Insert the stud into the sway bar first, then push the lower bushing onto the control arm stud. (If the Icon sway bar links were purchased, refer to those instructions now for proper installation)

**17.** Install the bumpstop spacer included in the kit. Use an adjustable wrench to unscrew the factory bumpstop, located rearward of the coilover. Apply the supplied blue thread locker onto the stud and factory bumpstop. Thread the spacer onto the bumpstop, then thread the stud into the spacer and tighten using a 5mm hex key. Repeat for passenger side installation. [FIGURE 14 & 15]

FIG.14



FIG.15



**18.** Lower vehicle to the ground, cycle the suspension. Tighten the lower control arm pivot bolts.

**19.** It is recommended that you have the vehicle professionally aligned whenever lift components are installed. Adjust headlights whenever the vehicle has been lifted or lowered for proper orientation.



**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.



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