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48600 INSTALLATION INSTRUCTIONS

9-27-2022 REV.C

PART #

DESCRIPTION

48600

21-UP BRONCO 2.5 VS IR COILOVER KIT

C/O IR UPKG PASSENGER HARDWARE INCLUDED 611019 COILOVER HARDWARE KIT (6) 605101 3/8-16 X 1.000 HHCS GR8 YZINC (6) 605131 3/8 SPLIT 611052 COILOVER LOWER HARDWARE KIT (4) 605205 7/16-14 X 2.750 HHCS GR8 YZINC (4) 605230 7/16 SAE FLAT WASHER GR8 YZINC TOOLS REQUIRED	T LOCK WASHER GR8 YZINC
C/O IR UPKG DRIVER (1) 611019 COILOVER (1) 144930P 21-UP BRONCO FRONT 0-3.5" 2.5 (1) 611052 COILOVER C/O IR UPKG PASSENGER (1) 611052 COILOVER HARDWARE INCLUDED 611019 COILOVER HARDWARE KIT (6) 605101 3/8-16 X 1.000 HHCS GR8 YZINC (6) 605131 3/8 SPL11 611052 COILOVER LOWER HARDWARE KIT (4) 605205 7/16-14 X 2.750 HHCS GR8 YZINC (4) 605230 7/16 SAE FLAT WASHER GR8 YZINC TOOLS REQUIRED	T LOCK WASHER GR8 YZINC
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(4) 605230 7/16 SAE FLAT WASHER GR8 YZINC (4) 605231 WASHER TOOLS REQUIRED	21.00 X .469 X .125 BOXIDE
JACK 6MM HEX KEY JACK 8MM SOCKET / WEY JACK STANDS 8MM SOCKET / WEY TORQUE WRENCH 10MM SOCKET / WEY RATCHET 15MM SOCKET / WEY EXTENSIONS 18MM SOCKET / WEY 5/16" SOCKET / WRENCH 21MM SOCKET / WEY 5/8" SOCKET / WRENCH 24MM SOCKET / WEY	RENCH ** READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH ENCH ** READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH ENCH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE ENCH NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE RENCH DAMAGE MAY RESULT TO THE VEHICLE!
TECH NOTES	** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.
1. YOUR ICON COILOVER ASSEMBLIES COME FACTORY CHARGED TO 25 PRESSURE MAY LEAD TO SHOCK MALFUNCTION AND REDUCED RIDE Q LOW NITROGEN PRESSURE IS NOT COVERED UNDER ICON'S WARRANT 2. YOUR ICON COILOVER ASSEMBLIES COME SHIPPED AT ICON'S RECON REDUCING DROOP TRAVEL WILL REDUCE RIDE QUALITY. DO NOT PREL 2.6" OF EXPOSED THREADS BETWEEN THE BOTTOM OF THE TOP CAP A ADJUSTER NUT. ADJUSTING PRELOAD BEYOND THIS SETTING WILL CAU DAMAGE WILL OCCUR TO COILOVER AND/OR VEHICLE. 3. ESTIMATED INSTALL TIME: 4-5 HOURS.	UALITY. FAILURE CAUSED BY Y POLICY. IMENDED RIDE HEIGHT. OAD THE COIL BEYOND IND THE TOP OF THE COIL
	the sway bar brackets. [FIGURE 2]

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. Remove the wheels.

2. Disconnect sway bar from both lower control arms using a 6mm and 21mm wrench. Rotate sway bar and links up away from the lower arm. **[FIGURE 1]**



FIG.1



FIG.2

4. Remove one side of the sway bar from the frame to gain access to the lower control arm bolts (18mm). [FIGURE 3]



5. Support the lower control arm and remove the bolts from the frame. Remove the 15mm nuts from the top of the coilover. [FIGURE 4]



FIG.4

FIG.3

6. Remove the 18mm nuts from the bottom of the coilover. [FIGURE 5]

FIG.5



7. Lower the arm down so the coilover can be removed. [FIGURE 6]



FIG.6

8. With the factory coilover removed, install the ICON coilover. Upper mount first using the supplied 3/8-16 x 1.00 GR8 bolts and split lock washers. Torque to 35 ft-lbs using a 9/16. [FIGURE 7]



9. Reinstall the lower control arm into the frame pockets using factory hardware (snug bolts only) and connect the lower shock to the control arm using the supplied 7/16 bolts and washers. Torque to 70 ft-lbs. Refer to the photo for proper bolt/washer orientation. **[FIGURE 8 & 8A]**

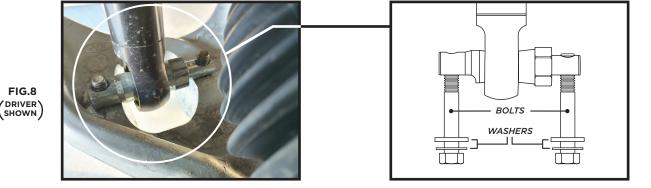


FIG.8A

10. Install the sway bar relocation brackets now before reinstalling the sway bar.

FIG.9

FIG.7

11. Remove the stud from each side using an 8mm. [FIGURE 9]



12. Install the ICON sway bar relocation bracket using the supplied 12mm socket head bolts using an 8mm hex key. Apply thread locker to the bolts. Make sure the threaded holes in the relocation bracket are towards the back of the truck. Torque to 55 ft-lbs. **[FIGURE 10]**



FIG.10

13. Using the supplied 7/16 x 3/4 bolts and washer (apply thread locker) install the sway bar back into place. Torque bolts to 50 ft-lbs using a 5/8. [FIGURE 11]



14. For models with the electronic disconnect sway bar, reinstall the factory skid plate with the supplied washers between the frame cross member and skid plate. The rear will bolt back to the sway bar bracket like factory.

15. Install the sway bar skid plate to gain access to the sway bar brackets. [FIGURE 12]



FIG.12

FIG.11

- 16. Make sure all bolts and nuts are tight. Install wheels and tires.
- **17.** Lower vehicle to the ground and tighten the lower control arm pivot bolts.
- 18. Get vehicle professionally aligned.

VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.

2.5 VS SERIES SHOCK & COILOVER TECHNICAL INFORMATION

MAINTENANCE

ICON shock absorbers are a high quality rebuildable race style shock absorber designed for optimal performance. With a unit of this caliber on your vehicle, routine maintenance is required to keep them looking and operating in like new condition. Residual oil and assembly lube may be present at all seal paths from the factory out of the box and is considered normal. Pooling of oil however is not acceptable at any time and one should contact the ICON dealer where purchased.

BELOW ARE GUIDELINES BASED ON HOW YOU USE YOUR VEHICLE BUT YOUR MILEAGE MAY VARY:

STREET USE:

- Send in for factory servicing every 40,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Remove any buildup of road salt, mud, or debris from shocks and coil springs anytime accrued
- Clean with mild soap and water with each oil change or anytime you notice build up.
 Wax the cylinders yearly with automotive wax to prevent corrosion.
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 Check nitrogen pressure yearly. (252004 charge needle assembly available at any ICON distributor)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

STREET/DIRT:

- Send in for factory servicing every 15,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Clean with mild soap and water with each oil change, offroad trip, or anytime you notice build up.
- Wax the cylinders yearly with automotive wax to prevent corrosion.
- Check nitrogen pressure each dirt outing. (252004 charge needle assembly available at any ICON distributor)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

DIRT USE:

- Send in for factory servicing every 1,000 miles.
- Check nitrogen pressure each outing. (252004 charge needle assembly available at any ICON distributor)
- Remove any buildup of mud or debris from shocks and coil springs after every outing.

SELF-SERVICE:

Contact ICON for service kits & tools at (951) 689-4266

PRODUCT REGISTRATION

Please visit: http://www.iconvehicledynamics.com/tech-support/registration/ to register your product.

ICON VEHICLE DYNAMICS SHOCK ABSORBER WARRANTY

This shock absorber has a 1 year warranty against any manufacturer's defects. If a shock fails within the initial year of ownership, the shock must be shipped to ICON Vehicle Dynamics for inspection and service. If a shock is inspected and it has been determined the shock failed due to neglect, damage caused by improper installation or any other reason besides "normal wear and tear", the owner of said shock is responsible for all service costs. This includes labor, parts, and shipping.

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.

To send a shock in for warranty please visit our website http://www.iconvehicledynamics.com/tech-support/shock-service/



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