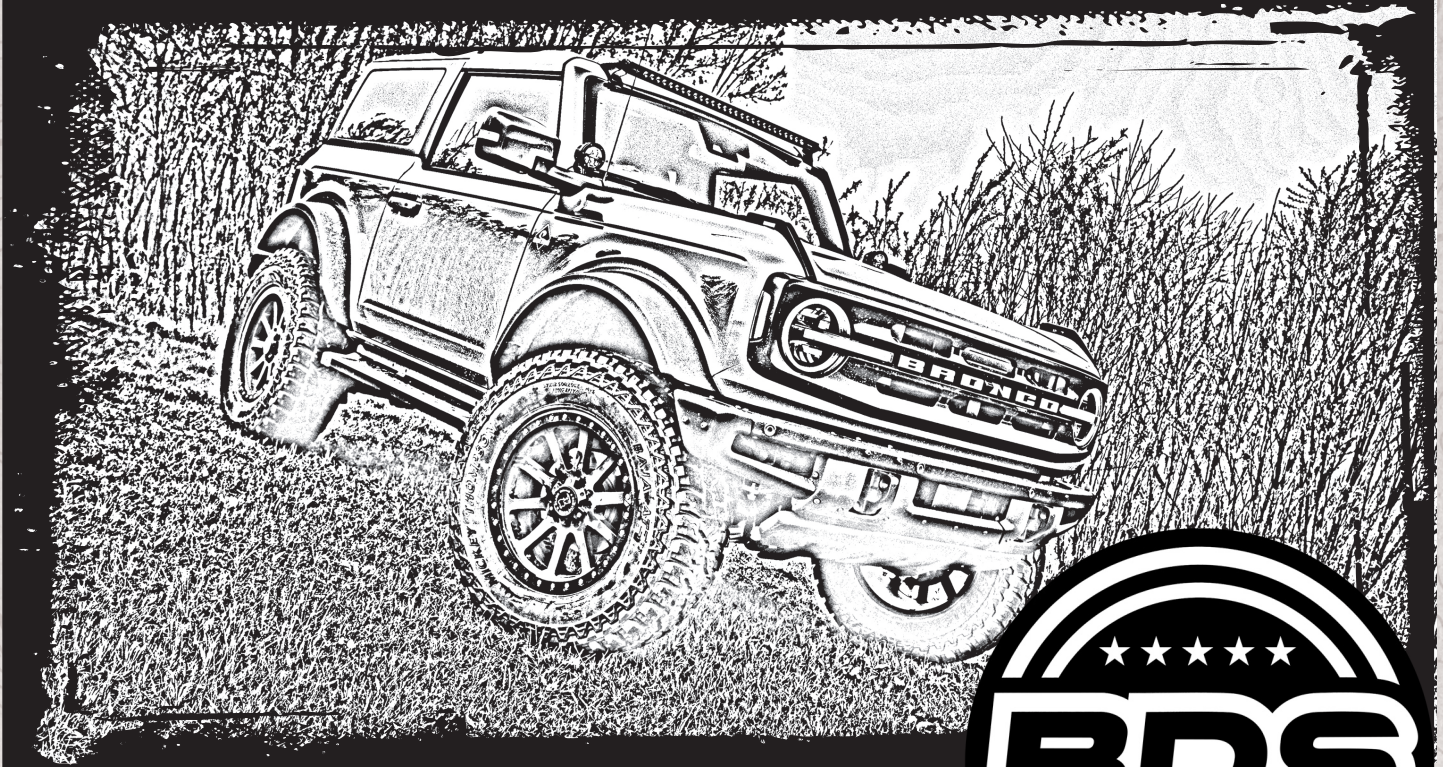


INSTALLATION GUIDE



Part #: 123256/123258

HARDCORE LIMITED LIFETIME WARRANTY

Rear Adjustable Upper Control Arms

Ford Bronco Model| 2021-25

Rev. 060425

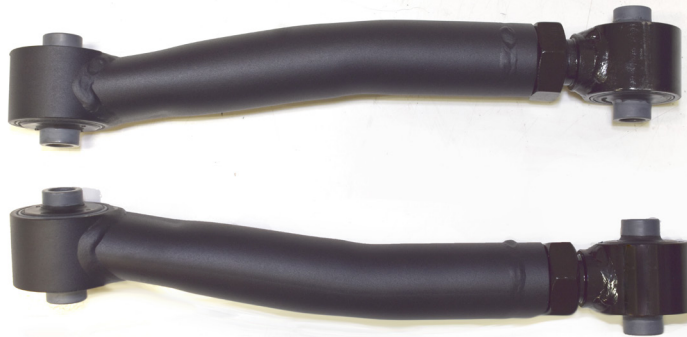
491 W. Garfield Ave., Coldwater, MI 49036 • Phone: 517-279-2135
E-mail: tech-bds@ridefox.com

SAFETY WARNING

BDS Suspension Co. recommends this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/ reassembly procedures and post installation checks must be known.

123256/123258		
Part #	Qty	Description
A431	2	2021-22 Ford Bronco Rear Upper Control Arm - Rubber Bushings
A407	2	2021-22 Ford Bronco Rear Upper Control Arm - Flex End

A431



A407



INSTALLATION INSTRUCTIONS

1. It is recommend that this system be installed with the vehicle suspended on a professional hydraulic lift. Remove the rear wheels. This will give better access to the work area.
2. Before you start it is recommended that the fuel tank of your vehicle have very little fuel in it as this will make fuel tank removal easier.
3. Install one control arm at a time.

DRIVER SIDE UPPER CONTROL ARM INSTALLATION

1. Support the drivers side rear axle with a screw jack or hydraulic jack if installing on the ground to help alleviate the pressure on the control arm and aid in removal of the upper control arm. Fig. 2



FIGURE 2

2. Loosen and remove bolts from the drivers side upper control arm. Fig. 3 & 4 **NOTE:** Due to the length of the bolt attaching the control arm to the frame bracket, the exhaust will need to be loosened from the rear hanger and brackets to allow enough play to get the bolt free. Fig. 5 & 6



FIGURE 3

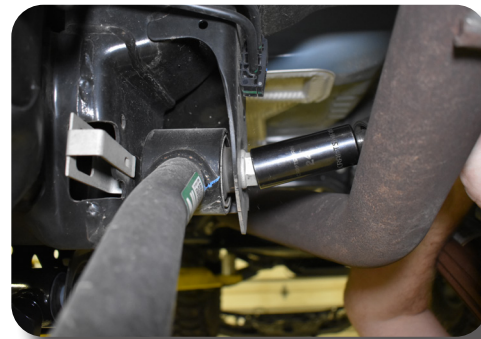


FIGURE 4



FIGURE 5



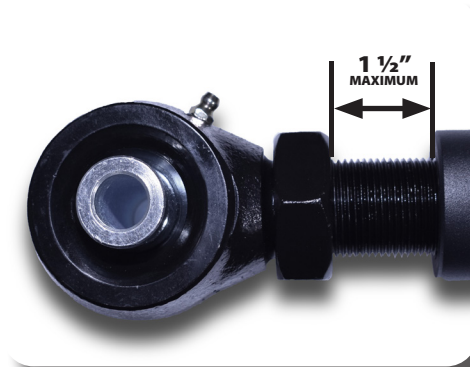
FIGURE 6

- Adjust the arms to the desired length. It is recommended to measure the factory control arm from center to center of the bushing eyelet holes, then set your new control arm to the same length. Shortening the upper arms in the rear will lower the pinion angle. Lengthening the upper arms will raise the pinion angle.

NOTE: Never un-thread the threaded eyelet end past 1 1/2" of adjustment. This can cause thread damage and weaken the joint. Extending the control arms too far can cause interference with track bar bracket bolt and the axle.



Tip Factory length for both Driver and Passenger side upper control arms is 14 9/16" from center to center of the bushing eyelet holes.



- Once sized, install the new driver side upper control arm using the factory hardware. If equipped ensure that the flex end grease fitting is down for ease of access once the control arm is installed. Note the correct orientation of the new upper control arms. The upper control arms have an inward jog that moves them away from the vehicle frame. Fig. 7 If equipped, flex ends of the control arm can now be torqued to 159 Ft-lbs. DO NOT tighten the other end of the control arm at this point. The other end of the control arm must not be torqued until the vehicle is on the ground and the control arm is under load. Re-connect exhaust brackets and hangers at this time.

NOTE: Control arms equipped with rubber bushings need to be torqued at both ends with the vehicle under load on the ground.

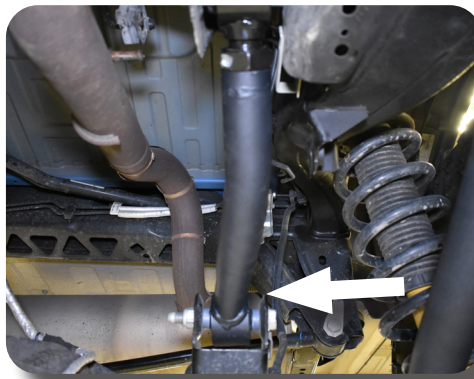


FIGURE 7

PASSENGER SIDE UPPER CONTROL ARM INSTALLATION

- To access the passenger upper control arm bracket bolt found on the vehicle frame, the fuel tank will first need to be removed.
- Detach fuel line found near the back of the tank by first pulling up on the blue tab then pushing to remove. Fig. 8
- Remove Filler neck from tank by loosening hose clamp. Pull and twist to disconnect fuel filler neck from tank. Fig. 9



FIGURE 8



FIGURE 9

4. Disconnect fuel and evap lines found at the front of the fuel tank. Fuel is likely to spray out when the lines are disconnected so it is recommended that you wear eye protection when performing this step. To disconnect lines pull out colored clips and push in the button on the side of the fitting as shown in Fig.10, 11, 12, 13



FIGURE 10



FIGURE 11



FIGURE 12



FIGURE 13

5. To perform the next step the fuel tank will need to be supported with a transmission jack.
6. Remove the 8 bolts attaching the fuel tank to the frame and undercarriage of the vehicle. Fig. 14,15,16,17



FIGURE 14



FIGURE 15

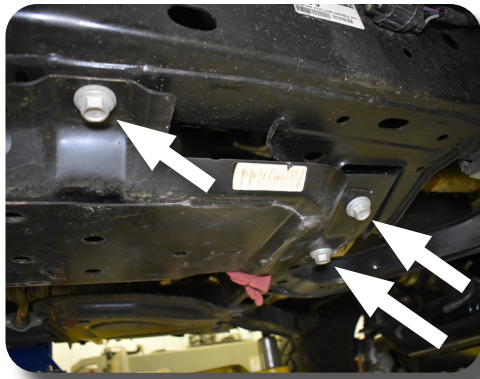


FIGURE 16



FIGURE 17

7. Lower the fuel tank approximately 12 inches and disconnect the tank wiring plug and 2 evap. lines found on the top of the tank. Fig. 18,19



FIGURE 18

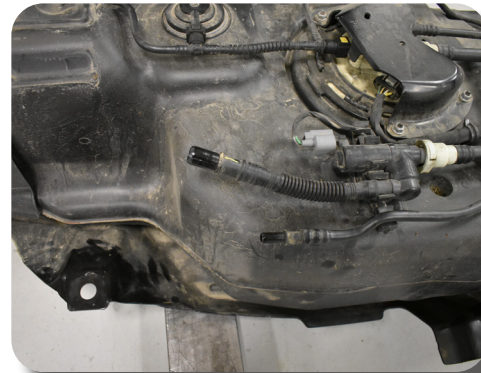


FIGURE 19

8. Remove tank and set aside away from your work area.
9. Remove passenger side lower control arm. In order to remove the frame bracket bolt it is necessary to remove the bolt shield. Remove and retain the 2 torx head bolts as shown in Fig. 20



FIGURE 20

10. Size the new upper control arm to the factory arm as shown previously in Fig. 3
11. Once sized install the new passenger side upper control arm, again noting proper orientation from **FIG. 7** in the previous section. Ensure that, if equipped the flex end grease fitting is down for ease of access once the control arm is installed. The flex end of the control arm can now be torqued to 159 Ft-lbs. **DO NOT** tighten the other end of the control arm at this point. The other end of the control arm must not be torqued until the vehicle is on the ground and the control arm is under load.

NOTE: Control arms with **rubber bushings** must be torqued under load with the vehicle on the ground. This will have to be accomplished by lowering the vehicle prior to reinstalling the fuel tank. *Replace wheels and lower vehicle to the ground. Jounce vehicle to help settle control arms. Once settled the control arms can be torqued to spec with the vehicle at ride height on the ground. Torque control arm bolts to 159 ft-lbs.*

12. Replace the passenger side upper control arm bolt shield. Fig. 20
13. Replace the fuel tank working in reverse order of the removal making sure to reattach, wiring plug, fuel lines and evap. lines and the 8 bolts attaching the fuel tank to the frame and undercarriage of the vehicle.
14. Replace wheels and lower vehicle to the ground. Jounce vehicle to help settle control arms. Once settled the control arms can be torqued to spec with the vehicle at ride height on the ground. Torque remaining control arm bolts to 159 ft-lbs.
15. Tighten the adjuster jam nuts on the control arms. Fig. 21

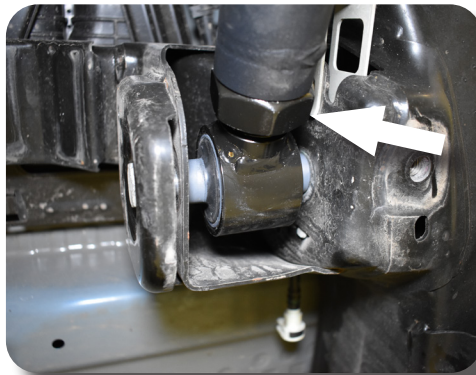


FIGURE 21

16. If equipped grease all grease zerks located in the flex ends of your new control arms.
17. Grease flex ends at every service interval.
18. Check hardware after 500 miles.