

Can-Am defender HD11
Bushing Tool Kit

SKU: TF290001



Thumper Fab
5103 Elysian Fields Rd, Marshall, TX 75672
Customer Service: 903-472-0928

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PARTS

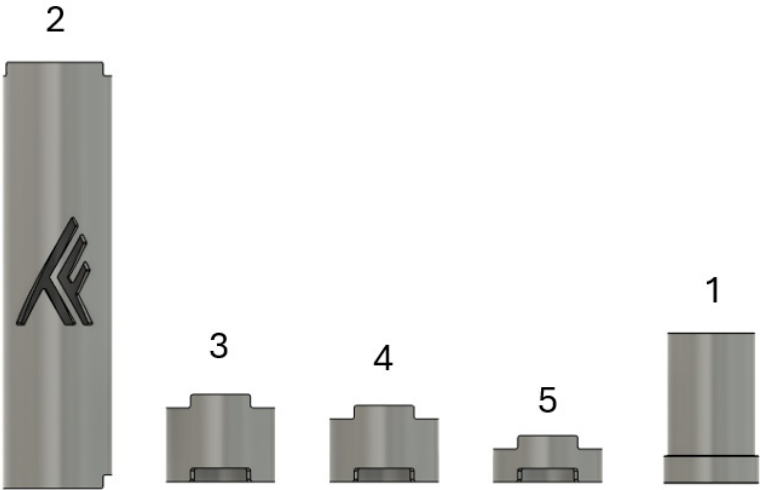
REF	QTY	DESCRIPTION
1	1	Machined Press Tool
2	1	Rear Upper Arm Support Tube
3	1	Front Upper Arm Add-On Tube
4	1	Front Lower Arm Add-On Tube
5	1	Rear Lower Arm Add-On Tube

BEFORE YOU BEGIN

If you do not feel comfortable using your **Thumper Fab** Bushing Tool Kit, please see your nearest **Thumper Fab®** Dealer for installation.

Torque Specs:

SIZE (STANDARD)	GRADE 5	GRADE 8	SIZE (METRIC)	CLASS 8.8	CLASS 10.9
5/16"	15 ft/lbs	20 ft/lbs	8MM	5 ft/lbs	9 ft/lbs
3/8"	30 ft/lbs	35 ft/lbs	9MM	10 ft/lbs	23 ft/lbs
7/16"	45 ft/lbs	60 ft/lbs	10MM	32 ft/lbs	45 ft/lbs
1/2"	65 ft/lbs	90 ft/lbs	12MM	55 ft/lbs	75 ft/lbs
9/16"	95 ft/lbs	130 ft/lbs	14MM	85 ft/lbs	120 ft/lbs
5/8"	135 ft/lbs	175 ft/lbs	16MM	130 ft/lbs	165 ft/lbs
3/4"	185 ft/lbs	280 ft/lbs	18MM	170 ft/lbs	240 ft/lbs



INSTALLATION INSTRUCTIONS

Bushing Tool Kit Operation

This bushing tool kit can be used to remove the bushings from OEM arms and install in Thumper Fab Control Arms designed for HD11 Defenders. To remove the bushings from the OEM control arms, use the support tube between the bushing collars of each arm. Besides the rear upper control arm, an add-on tube will be needed for the specific control arm to properly take up the gap between the bushing tubes to allow the pressing out of the bushings without distorting the control arms geometry (**FIG 1**).

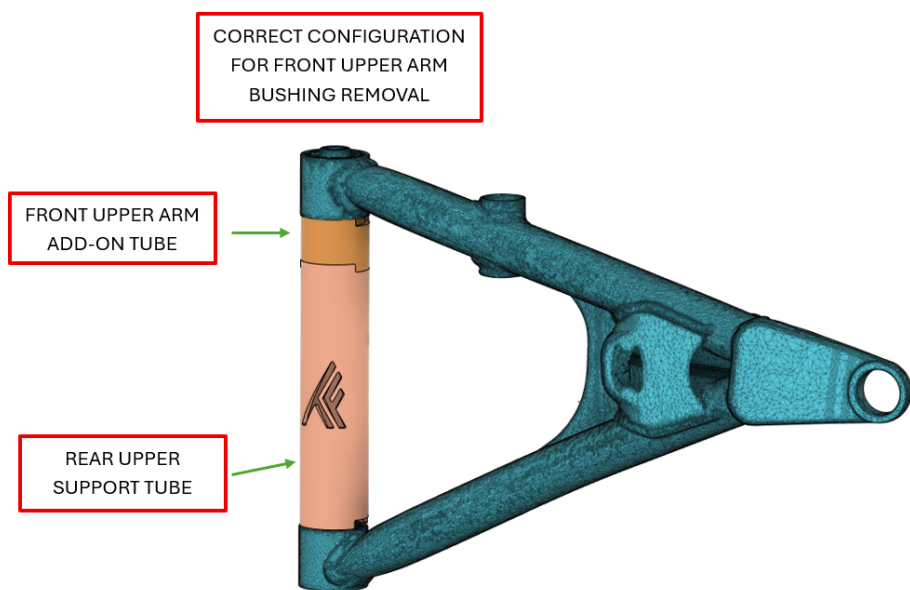


FIG 1 - Select correct configuration of support tubes

INSTALLATION INSTRUCTIONS

Bushing Tool Kit Operation

Once the correct configuration of support tube and add-on tubes is selected, use the small end of the machined press tool to press the bushing out of the control arm (**with the control arm safely supported on the press**). Once the bushing is removed from one side of the control arm, flip the arm over and repeat the process until all of the bushings are removed from the OEM control arms (**FIG 2**).

PRESS DOWN ON MACHINED PRESS TOOL
TO REMOVE BUSHING FROM CONTROL ARM

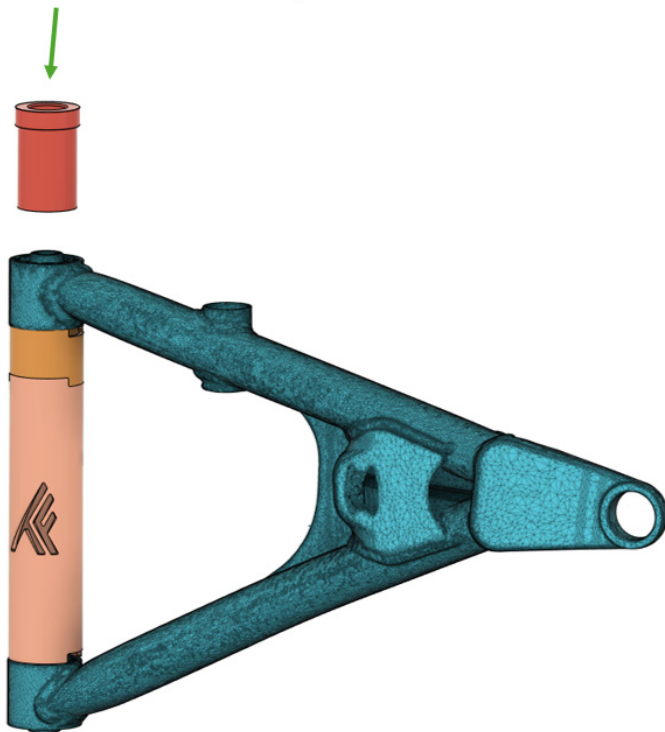


FIG 2 - Remove bushings from OEM control arms

INSTALLATION INSTRUCTIONS

Bushing Tool Kit Operation

The process for bushing installation is very similar. Select the correct support tube and press the bushing into the bushing collar of the Thumper Fab control arm using the large end of the machined press tool (**with the control arm safely supported on the press**). Press until the large end of the machined press tool contacts the control arm and repeat the process for the remaining 15 bushings (**FIG 3**).

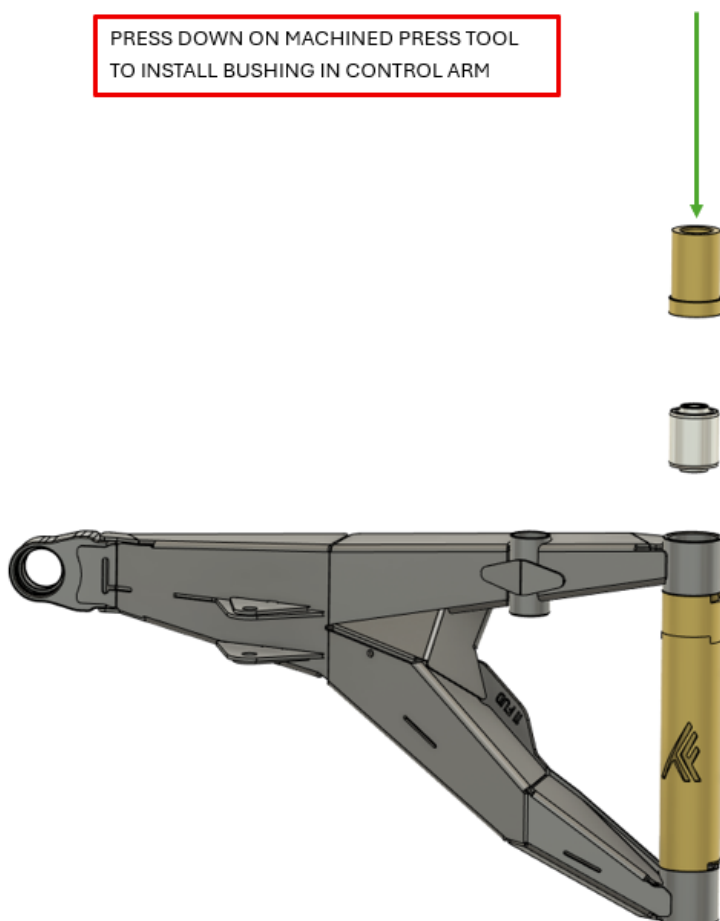


FIG 3 - Install bushings using the large end of the machined press tool

INSTALLATION INSTRUCTIONS

PRODUCT DISCLAIMER

The installation of products sold or manufactured by Thumper Fabrication, LLC (Thumper Fab) including, but not limited to suspension components such as lift kits, audio roofs, roll cages, frame stiffener kits, and tires that exceed the original specifications for the vehicle, may change the vehicle's center of gravity and handling characteristics both on- and off-road. You are aware that the installation of tires that are larger than original vehicle specifications may reduce the effectiveness of the braking system. Use of these products may place added stress to the original factory vehicle components which could cause them to weaken or possibly fail.

Products sold or manufactured by Thumper Fab are intended for off-road use only. Operation of a vehicle modified with these products on a road could result in serious bodily injury or death, and such operation may violate the laws of your state or municipality. You agree to operate your vehicle exclusively in the manner intended by the vehicle manufacturer. You agree that failure to safely and reasonably operate your vehicle could result in serious bodily injury or death, and that, as a result of installation of this product(s) to your vehicle, extreme care must be taken to prevent vehicle rollover or loss of control, which may be more likely to occur as a result of said modifications. You will avoid unsafe maneuvers, including sudden sharp turns or other abrupt maneuvers, which could make a vehicular accident more likely. You understand that Thumper Fab is not responsible or liable for any damages or any injuries to yourself or your passengers that could occur upon possible accidents due to driver error, incorrect installations, bad judgment, incompatibility with other aftermarket accessories or natural disasters to the fullest extent allowable by law. You will have all vehicle occupants fasten seatbelts, if equipped, and wear proper safety equipment, such as DOT approved helmet and eye protection prior to operating the vehicle. You understand and acknowledge that failure to wear proper safety equipment may increase the risk of serious bodily injury or death to yourself and any passengers.

Proper installation of products sold or manufactured by Thumper Fab requires knowledge of the factory recommended procedures for removal and installation of original equipment components. Installation of these products without proper knowledge and experience may affect the performance of these components and the safety of the vehicle and cause serious bodily injury or death. It is strongly recommended that a certified mechanic familiar with the installation of similar components perform the product(s) installation.

Prior to installing any products sold or manufactured by Thumper Fab, you will perform or cause to be performed an inspection of their vehicle to confirm its condition is suitable for the installation of these products. A proper inspection of the vehicle includes confirmation that the vehicle has not been in a collision and is free of corrosion. If the vehicle is suspected to have been in a collision or misused, or is otherwise unsuitable for modification, you will not install the product(s). You will continue to inspect the vehicle prior to each use to confirm its condition is suitable for its intended use, and you acknowledge that the failure to do so may result in serious bodily injury or death, as well as damage to the vehicle itself.

You will install any warning labels provided with the product so it may be prominently seen by yourself and all passengers. You will notify all passengers of the modifications performed to your vehicle prior to operation.

Insurance companies may handle coverage of a modified vehicle differently. Please check with your insurance carrier prior to modifying the vehicle to ensure your coverage remains sufficient. Installation of this product(s) may void your vehicle warranty. If this is a concern, please check with the manufacturer or dealer before purchase or installation of this product(s).



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