

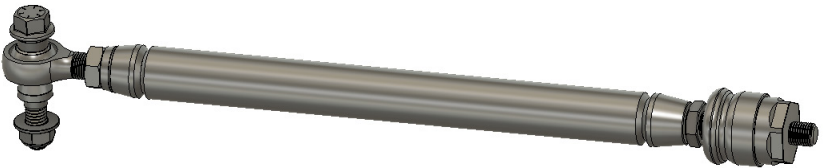


THUMPER FAB

Aluminum Audio Roofs ♦ Roll Cages ♦ UTV Accessories

U10 Pro Stock Length Tie Rod

SKU: TF281102



Thumper Fab

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Customer Service: 903-472-0928

www.thumperfab.com

Ver. 0426

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PARTS

REF	QTY	DESCRIPTION
1	2	Welded Tie Rod Bodies
2	2	Inner Tie Rod Ends
3	2	Left Hand Heim Joints
4	2	Left Hand Jam Nuts
5	2	Steering Boots
6	2	Hose Clamps
7	2	Tapered Standoffs
8	2	Standoff A
9	2	1/2" x 3" Flange Head Bolt
10	2	1/2" Flange Nylon Lock Nut

TOOLS

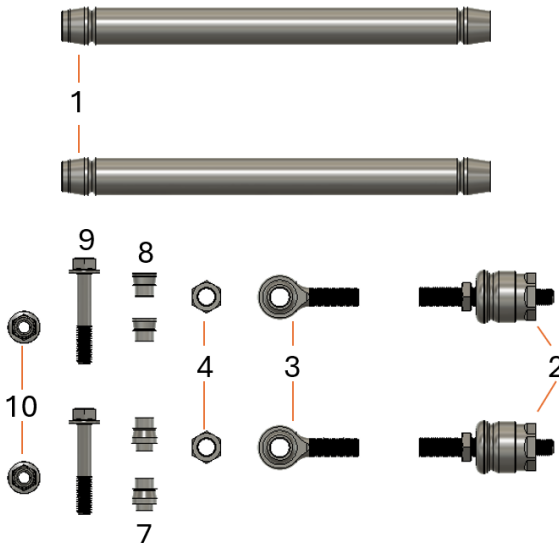
- Hammer
- Flathead Screwdriver
- Large Channel Locks
- Snips
- 19mm Socket
- 3/4" Socket and Wrench
- Blue Loctite

Torque Specs:

SIZE (STANDARD)	GRADE 5	GRADE 8	SIZE (METRIC)	CLASS 8.8	CLASS 10.9
3/16"	15 ft/lbs	20 ft/lbs	5MM	5 ft/lbs	9 ft/lbs
3/8"	30 ft/lbs	35 ft/lbs	8MM	16 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

BEFORE YOU BEGIN

If you do not feel comfortable installing your **Thumper Fab** Tie Rod, please see your nearest Thumper Fab® Dealer for installation.



INSTALLATION INSTRUCTIONS

Installation Preparation

Use a hammer and a long flathead screwdriver to break the clamp that fastens the OEM steering boot to the steering rack. Slide the steering boot back to gain access to the inner tie rod end. Installation will be easier if the control arms are removed, but is not necessary (**FIG 1 & FIG 2**).



FIG 1 & FIG 2 - Remove OEM steering boot clamp

Remove the OEM tie rods by gripping the inner tie rod end with a large panel of channel locks and unthreading counter clockwise (**FIG 3**).



FIG 3 - Remove OEM Tie Rod

INSTALLATION INSTRUCTIONS

Installation Preparation

Trim the new steering boot in the following places to prepare for installation (**FIG 4 & FIG 5**).



FIG 4 & FIG 5 - Trim the new steering boot

Here is what the steering boot should look like after the trimming is complete (**FIG 6**).

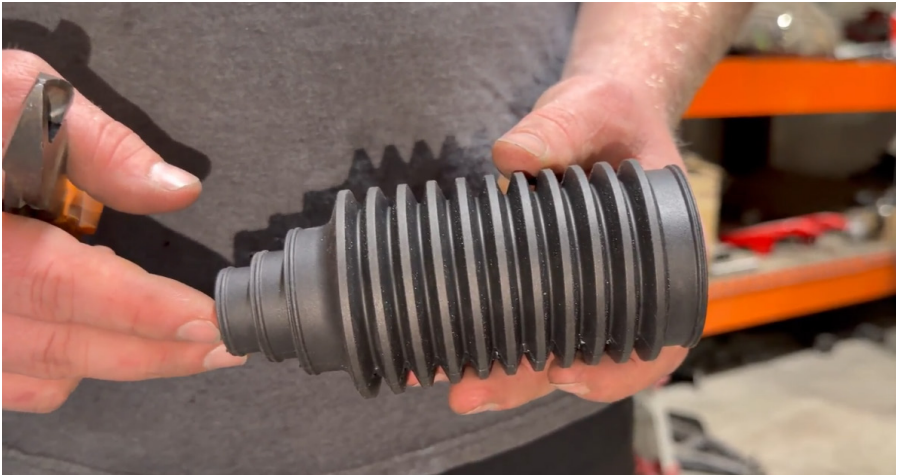


FIG 6 - Steering boot (trimmed)

INSTALLATION INSTRUCTIONS

Installation

Remove the jam nut on the long threaded shank of the new inner tie rod and set aside. Slide the long shank of the inner tie rod through the steering boot and rethread the jam nut onto the inner tie rod to hold the boot in place (**FIG 7 & FIG 8**).

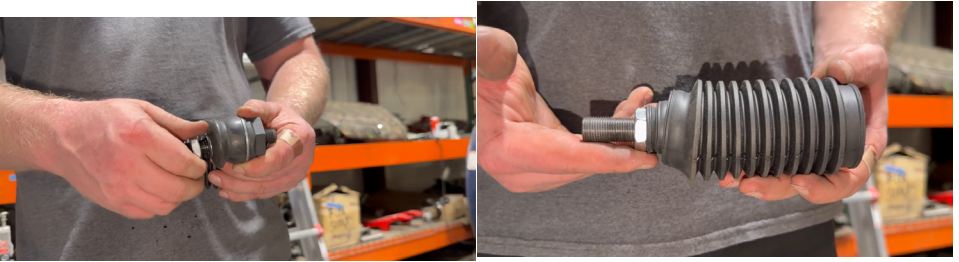


FIG 7 & FIG 8 - Insert the inner tie rod into the steering boot

Apply blue loctite to the threads of the inner tie rod that will thread into the steering rack (short shank) (**FIG 9**).



FIG 9 - Apply loctite to the inner tie rod

INSTALLATION INSTRUCTIONS

Installation

Slide the hose clamps over the large side of the steering boot (FIG 10).



FIG 10 - Slide hose clamp over steering boot

Thread the inner tie rod assembly into the steering rack. Tighten using a large pair of channel locks. Once tight, slide the steering boot over the steering rack and secure using the hose clamp (FIG 11 & FIG 12).



FIG 11 & FIG 12 - Install Inner Tie Rod

INSTALLATION INSTRUCTIONS

Installation

Thread the tie rod assembly onto the inner tie rod (**FIG 13**).



FIG 13 - Install Tie Rod

Fasten the tie rod to the knuckle by inserting the tapered standoff into the knuckle before inserting the 1/2"x3" flange head bolt through Standoff A. Tighten using the 1/2" flange nylon lock nut using a 3/4" wrench and a 3/4" socket. Remount the wheels and set the vehicle on the ground, adjust the toe as needed (**FIG 14**).

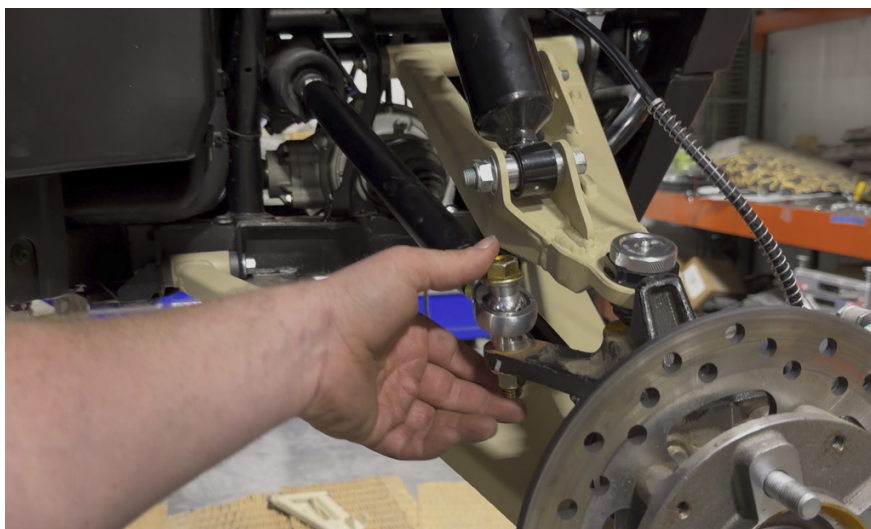


FIG 14 - Fasten the tie rod to the knuckle

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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