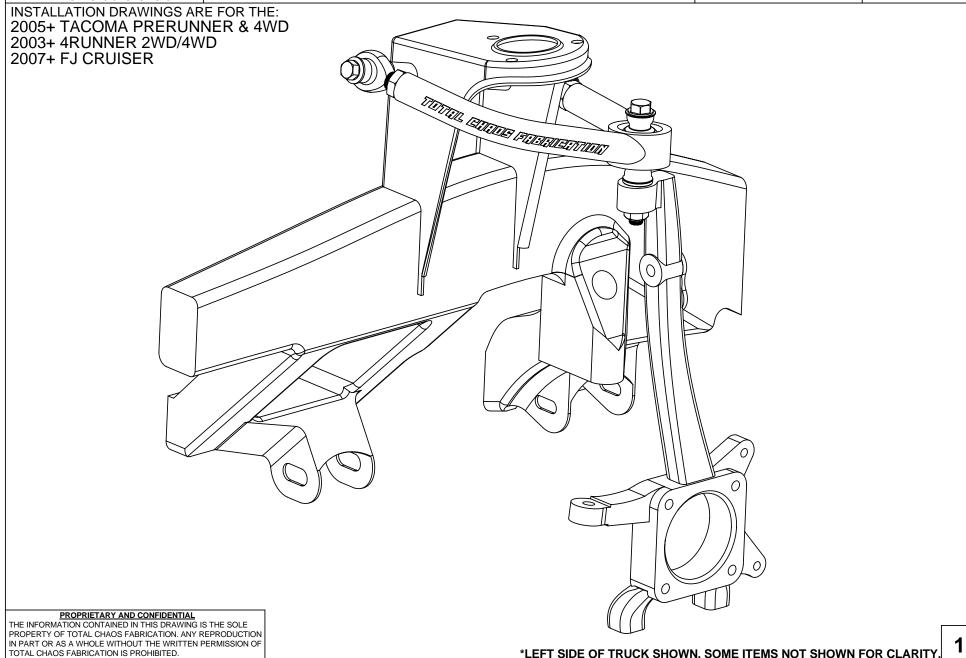
TOTAL CHAOS FABRICATION www.chaosfab.com

INSTALLATION INSTRUCTIONS

05+ TACOMA PRERUNNER/4WD HEIMED U.C.A. 03+ 4RUNNER/07+ FJ CRUISER HEIMED U.C.A.

96504H

DATE: 3/6/2009 REV.: 03 SCALE: N.T.S. PAGE: 1 OF 4 **DRAWN: SW**



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INSTALLATION INSTRUCTIONS

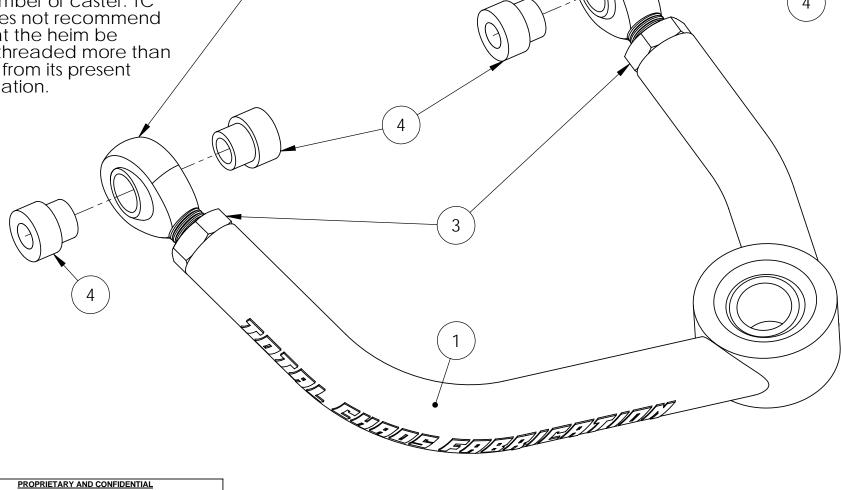
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UPPER CONTROL ARM ASSEMBLY

**** The heims are assembled and preset to TC specifications. Additional adjustments can be made to modify camber or caster. TC does not recommend that the heim be unthreaded more than 1/4" from its present location.



PROPRIETARY AND CONFIDENTIAL

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FACTORY BOLT

INSTALLATION INSTRUCTIONS

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Important Note:

When removing the factory upper control arm bolt, you will need to bend the inner fender well on both sides of the truck. Once installation is complete, bend it back to its original position.

IMPORTANT NOTE:
During assembly, upper & lower spacers are specific.
Failure to follow these instructions will result in damage of all components.

Upper spacer has 9/16" hole

Lower spacer has 3/4" hole

TUTTER ELLENE FREEDS

SPINDLE

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INSTALLATION INSTRUCTIONS

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INSTALLATION NOTES

The factory manual is required for torque specifications on all factory hardware. This procedure will involve the removal and re-installation of many parts. Always use factory replacements for worn or damaged parts.

Some items are not shown for clarity.

Page 3 Torque Item# 5 to 100 ft/lbs.

Inspect all components and re-torque all hardware within 500 miles.

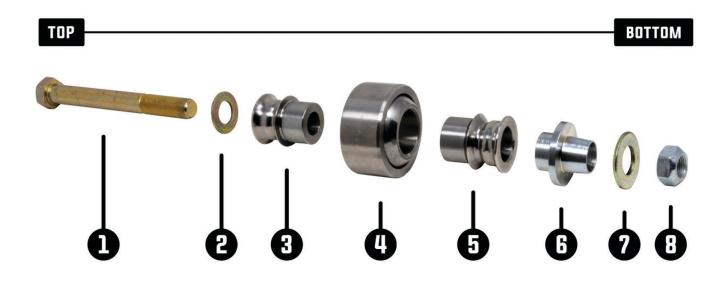
PARTS LIST: 05+ TACO/FJ/4RUN UPPER CONTROL ARM ITEM # PART# QTY. ITEM DESCRIPTION 1 99654LH 1 CONTROL ARM, HEMED UPPER LEFT 99654RH 1 CONTROL ARM, HEMED UPPER RIGHT 2 4 HEM, 3/4" x 3/4" RHT JMX12T 3 11373 4 JAM NUT, 3/4" HEM 4 SPACER, UPPER CONTROL ARM HEM 99868 8 5 10251 2 BOLT, 9/16" x 5.00L 6 12203 2 WASHER, 9/16" AN 7 2 100916 SPACER, 9/16" MISALIGNMENT 8 10034TCF 2 SPACER, 3/4" MISALIGNMENT 9 2 30004 SLEEVE, 9/16" TAPERED ADAPTER 10 12204 2 WASHER, 9/16" SAE 11 11202 2 NUT, 9/16" C-LOCK

TOTAL CHAOS Fabrication Inc. 159 North Maple St. Unit J Corona, CA 92880 951.737.9682

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UPPER CONTROL ARM HARDWARE ASSEMBLY ORDER



PRIOR TO ASSEMBLY, PLEASE NOTE:

- Items 3, 4 and 5 are pre-installed in the UCA.
- Items 1-6 go above the spindle.
- Item 3 has a 9/16" inner diameter (ID) and item 5 has a 3/4" ID. It is critical the 3/4" ID goes on the bottom so the straight side of the tapered spindle adapter #6 properly registers inside it.
- The tapered spindle adapter #6 goes into the top of the spindle with the tapered side down to ensure proper fitment.
- A spare zerk fitting is supplied with this kit.
- Complete installation instructructions available at www.chaosfab.com/install.





RECOMMENDED ALIGNMENT PROCEDURE

All vehicles equipped with TOTAL CHAOS suspension systems should be taken to an alignment shop that is familiar with off-road suspension systems.

There is increased caster angle built into most TOTAL CHAOS suspension systems. When setting alignment, camber and toe should be set as close to factory spec as possible. Caster will usually be higher than factory specifications. Attempting to bring caster to factory spec will likely result in camber and toe being out of factory specifications, which will result in poor drivability and uneven tire wear. The caster that is built into TOTAL CHAOS suspension systems is sufficient, attempting to add excessive caster into the alignment may result in the inability to adjust camber and toe.

Alignment specifications will vary depending upon:

- · Vehicle model
- · Suspension kit purchased
- · Prior vehicle modifications
- · Desired coilover spring pre-load and or ride height

TOTAL CHAOS' suspension products are designed to align with aftermarket shocks that are set to the recommended amount of lift. Some vehicles may not correctly align if the ride height is altered from the recommended settings. If you have followed all of the instructions and the vehicle still won't align correctly, it's likely that there is something installed wrong, or the frame mounting points and/or knuckles may be bent or damaged.



Frequently Asked Questions & Important Things To Read About TC Equipment and Parts

UNIBALLS

TC uses a 100% stainless steel uniball and race for maximum corrosion resistance in all our equipment. The uniballs feature a military grade PTFE Liner that makes much less noise than the standard lined uniballs used in competing brands. This military grade PTFE liner is self-lubricating and does not require any additional lubrication or grease. If you have a ball that is making some noise apply either a layer of Tri-Flow Superior Dry Lubricant (No. TF21013) or CRC Dry PTFE Lube (No. 03044). Uniballs are a consumable item and will need to be replaced when the military grade PTFE Liner wears away. Grabbing your wheel and applying force to see if the ball is moving in the race will determine their maintenance schedule. Each uniball is retained in the uniball cup at the end of the arm with a large snap ring. Wiping the uniballs down with a damp cloth to remove any built up dirt and debris will help extend the life of these parts Replacement parts are available directly from TOTAL CHAOS Fabrication Inc.

POLYURETHANE BUSHINGS

Poly bushings can and will make some noise. They offer many benefits vs. a factory style rubber bushing. To reduce as much noise as possible, TC uses a synthetic grease that contains PTFE called Superlube (No. 41150). If Superlube is not readily available use a good synthetic grease (Mobil 1, Valvoline, etc.). When greasing your pivot bushings on the vehicle it is very important not to force too much grease into the zerk fittings. This will cause excess pressure to become trapped in the pivot and will result in mushrooming the bushing shoulders out of the pivots. To prevent this, first loosen the factory bolt that holds the arms to the frame and separate the washers from the face of the bushings when applicable. This will allow any excess pressure and grease to escape. Don't forget to re-torque the factory bolt when you are finished to a factory torque specification!

ZERK FITTINGS

The grease nipples or zerk fittings that are supplied with our arms are $\frac{1}{4}$ "-28 in size. Should you have a tapped hole that has an excess amount of powder coat in it, use a $\frac{1}{4}$ "-28 tap to clean it up. When installing the zerk fittings take care not to over tighten them as they are hollow and can snap off. When fully installed they will not sit all of the way flush with the pivot, just insert them two or three rotations until they are snug. Don't forget to have them pointing in the right direction so you can get a grease gun onto them once the arms are installed onto the vehicle.

ANTI-SIEZE

To aid in future disassembly of components, we recommend that you liberally apply an anti-seize to all metal on metal contact surfaces such as the ID of the uniball, hi-mis spacers, and inner sleeves. Also, apply it to the threads on any C-lock or Stover nut. This will prevent the C-lock portion of the nut from galling onto the bolt.

BLACK OXIDE COATED PARTS

Some components (such as 4340 axle shafts and lower uniball conversion cups) are coated with Black Oxide. While this will help to prevent rust, depending on your climate you may want to further coat these parts. For axle shafts we wrap a layer of electrical tape the length of the shaft (excluding the splines). For lower uniball conversion cups you can use black spray paint, just be sure to mask of the uniball before painting.

HARDWARE TORQUE

All hardware should be re-torqued after an initial break in period of 50 miles and again at 500 miles. Periodically after that you should inspect your suspension to ensure that nothing is loose, worn, or damaged.

UNIBALL CAPS

We do not use any sort of cap or cover over our uniballs as these actually lead to premature wear and corrosion. With a cap installed moisture and containments work their way up through the underside of the uniball and then become trapped. With no cover this moisture can evaporate and you have easy access to wipe down the uniball periodically.



WARNING

TOTAL CHAOS FABRICATION's aftermarket suspension products and accessories modify a vehicle for uses which exceed conditions anticipated by the vehicle manufacturer. The uses include the high-performance demands required during off-road. These conditions vary in the degree of severity and cannot be controlled by the vehicle or product manufacturer. If the components within the suspension system or accessories become worn due to frequent on-road and/or extreme off-road use, the safety and reliability of the vehicle is at risk. The maintenance of aftermarket equipment to ensure the vehicle occupants safety is entirely your responsibility. Do not purchase TOTAL CHAOS manufactured products or components unless you are willing to accept this responsibility. Do not install any TOTAL CHAOS suspension products or accessories unless you are certified and/or competent at installing the product without causing present or future injury to yourself or other vehicle occupants, other vehicles and their occupants, pedestrians and motorcyclists; seek an authorized installation center.

TOTAL CHAOS FABRICATION long travel suspension systems were designed for off-road use only. This suspension system is not to be modified from its original design in any way. TOTAL CHAOS is not liable nor held responsible for any injury's or death that can occur from off-road use or as the result of product failure. Customer/driver assumes all liability in assuring that the suspension system is properly installed, maintained, and operating in safe conditions. The following are guidelines for maintaining a safe operating vehicle. Safety and reliability are our number one concern.

Visually inspect all equipment for clearance and unusual wear.

Regularly clean and inspect equipment such as suspension components, heim joints, polyurethane bushings and all hardware. Replace items as necessary. All suspension components are available for individual replacement direct from TOTAL CHAOS. We strongly recommend the suspension system be installed by an authorized installation center. TOTAL CHAOS FABRICATION reserves the right to warranty any components that we have determined to be product or material defective. Off-road abuse can damage suspension components.

BREAK IN PERIOD. After every installation we recommend checking the torque of all nuts and bolts to assure that the torque has taken after driving 500 miles. Some minor adjustments may need to be made.

The customer assumes all responsibility for the use of all equipment and the proper maintenance of said equipment. This equipment will alter the center of gravity of your vehicle and also the handling characteristics that you may be accustomed to. Even though your vehicle may have a wider track width it is capable of rolling over. Please wear your seat belt and demand that all passengers do so as well.

Please remember that no matter how well your vehicle is built it is only as safe as you drive it. This equipment is designed to improve the performance of your vehicle. **INCREASING PERFORMANCE ALSO INCREASES YOUR RISK WHILE OPERATING THIS VEHICLE**. The operator must know and understand the vehicles handling characteristics. None of this equipment is guaranteed to be free of defect or to protect the driver or occupants from death or injury in the event of a collision. Please drive in a safe and sane manner.