



PRODUCT: Rubicon Express Long Arm Upgrade Kit

REV: A | 01-08-2024 | II-7149/7156

READ INSTRUCTIONS IN FULL BEFORE INSTALLATION.

QUESTIONS? CALL 916-631-8071 M-F 7:00 AM – 5:00 PM PST

The MetalCloak experience includes the ease of installation of our products. We design for most contingencies, but installation may be different based on different Jeep condition, configuration and/or year.

We are continually trying to improve our products and instructions – please help us by providing feedback and pictures if you find any part of the instructions that do not match your particular Jeep or are not easily understandable.

If you have any difficulties at all, please give us a call. Thank you and enjoy your MetalCloak Products!

IMPORTANT NOTE: We use Stainless Steel Hardware where possible. Therefore, a tube of Silver Anti-seize is provided and should be used on all bolts—only a small amount is needed.

WARRANTY INFORMATION: This article is sold without warranty expressed or implied. No warranty or representation is made as to this products ability to protect the user from injury or death. The user assumes that risk. The effectiveness, warranty and longevity of this equipment are directly related to the manner in which it is INSTALLED, USED and/or MAINTAINED. THE USER ASSUMES ALL RISK. By purchasing this product and opening the packaging, purchasers expressly acknowledge, understand and agree that they take, select and purchase these MetalCloak products from Armored Works, LLC, its affiliates and distributors and agents as is and with all faults. The entire risk as to the quality and performance of these MetalCloak products is with the purchaser. Working on your vehicle can be a dangerous activity. If you are unsure of what you are doing, please leave mechanical or safety critical work to a skilled mechanic. We take no responsibility for the incorrect use and/or installation of MetalCloak products.

Section 1: Tools & Notes on Installation



Tools Required: This list is the recommended tools for ease of installation. Other versions of the same tool can be used. For example, Allen Wrenches instead of Allen Drive Sockets.



Socket & Ratchet Wrench

17mm Socket
19mm Socket
22mm Socket



17mm Box Wrench
19mm Box Wrench
22mm Box Wrench

Large Adjustable Wrench



HOW TO USE THIS GUIDE: The installation guide contains ALL steps for installation. Please read and follow the instructions in order of each page top to bottom, and left to right.

Jeep Model: Instructions may apply to multiple Jeep models, but are labeled separately where appropriate (i.e. TJ vs. LJ).

Options: Because of the number of component options we offer, these instructions may contain steps that will not match your particular configuration. You can skip these steps.

Images: Pictures are provided and parts are labeled throughout the instructions. Each text box contains guidance based on the pictures next to it. The text will refer to alphabetical labels (A, B, etc.) found in the images.

Installation Notes: Terms may be used in the body of the instructions that you may not be familiar with, if you have any questions feel free to contact us at the number below, or email techhelp@metalcloak.com

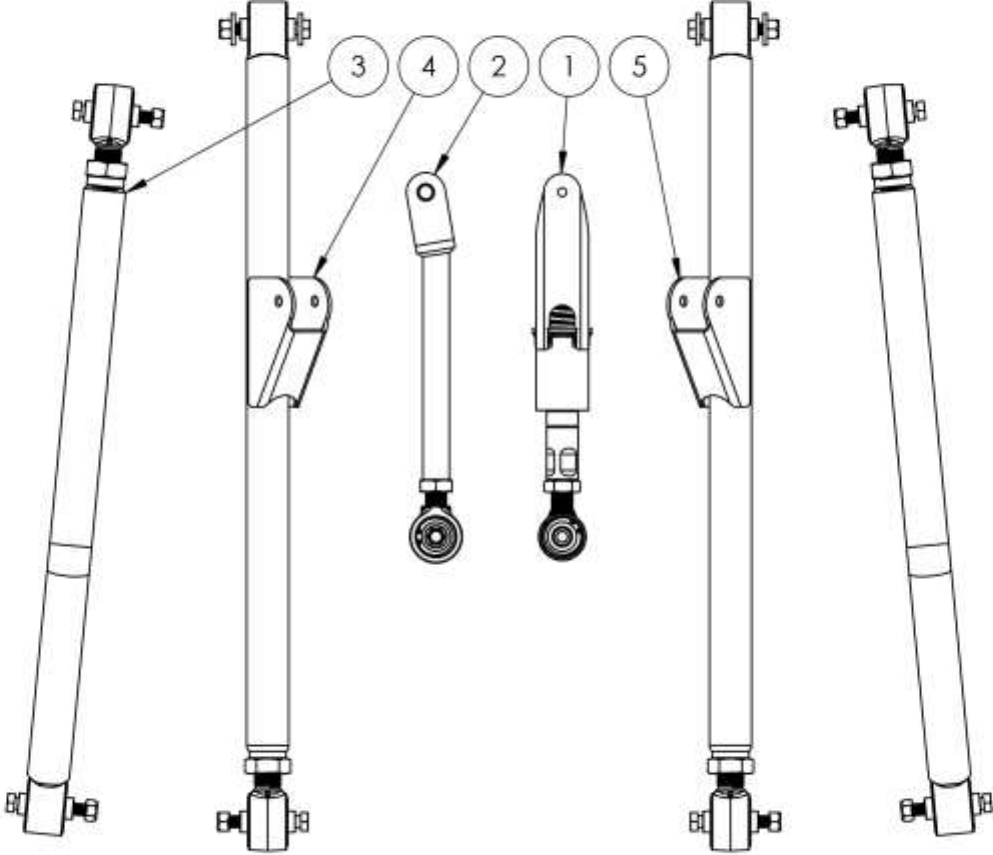
QUESTIONS: Any questions or comments about the instructions? Call us at 916-631-8071 M-F 7:00 AM – 5:00 PM PST.

Section 2: Product Components

DC-0001 REV A

SHEET 1 OF 1

| ITEM | PART NUMBER/DESCRIPTION | QTY. |
|------|---|------|
| 1 | 7075 LOCK-N-LOAD RADIUS ARM LINK, TJ | 1 |
| 2 | 7091 RADIUS ARM, FRONT TJ-LJ | 1 |
| 3 | 7092 CONTROL ARMS, LOWER LONG-ARM, REAR TJ | 1 |
| 4 | 7103 RE UPGRADE ARMS, LOWER LONG-ARM, FRONT TJ-LJ | 1 |
| 5 | 7103-P RE UPGRADE ARMS, LOWER LONG-ARM, FRONT TJ-LJ | 1 |



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DO NOT SCALE DRAWING

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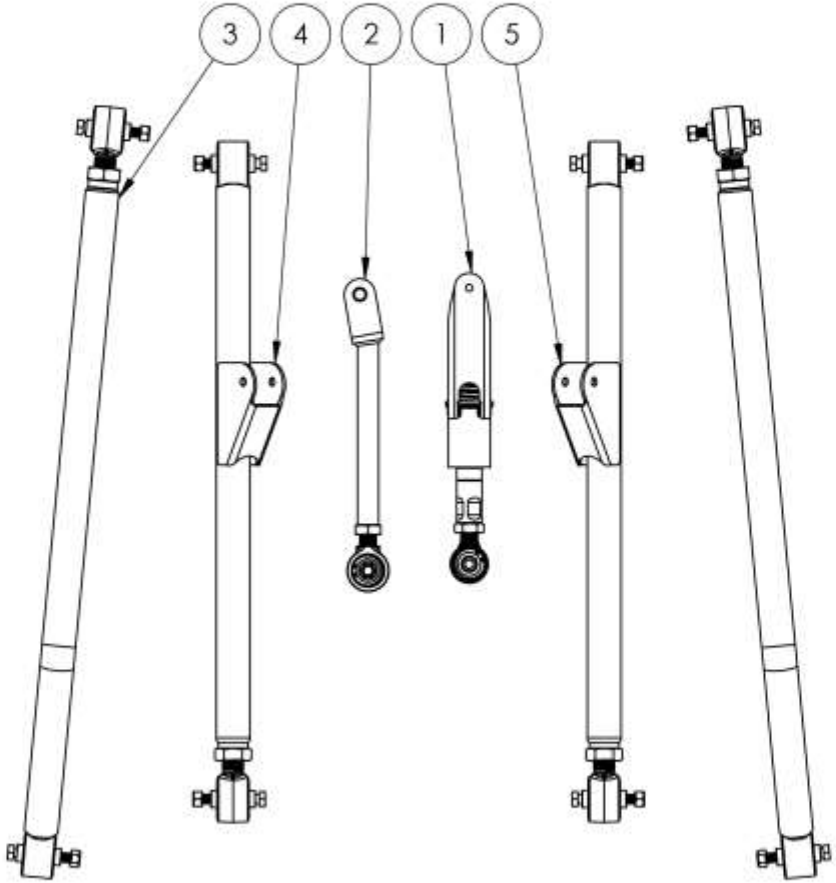
PART NUMBER/DESCRIPTION
 7149 RUBICON EXPRESS LOCK-N-LOAD ARM UPGRADE, TJ

Section 2: Product Components

DC-0001 REV A

SHEET 1 OF 1

| ITEM | PART NUMBER/DESCRIPTION | QTY. |
|------|---|------|
| 1 | 7075 LOCK-N-LOAD RADIUS ARM LINK, TJ | 1 |
| 2 | 7091 RADIUS ARM, FRONT TJ-LJ | 1 |
| 3 | 7099 CONTROL ARMS, LOWER LONG-ARM, REAR LJ | 1 |
| 4 | 7103 RE UPGRADE ARMS, LOWER LONG-ARM, FRONT TJ-LJ | 1 |
| 5 | 7103-P RE UPGRADE ARMS, LOWER LONG-ARM, FRONT TJ-LJ | 1 |



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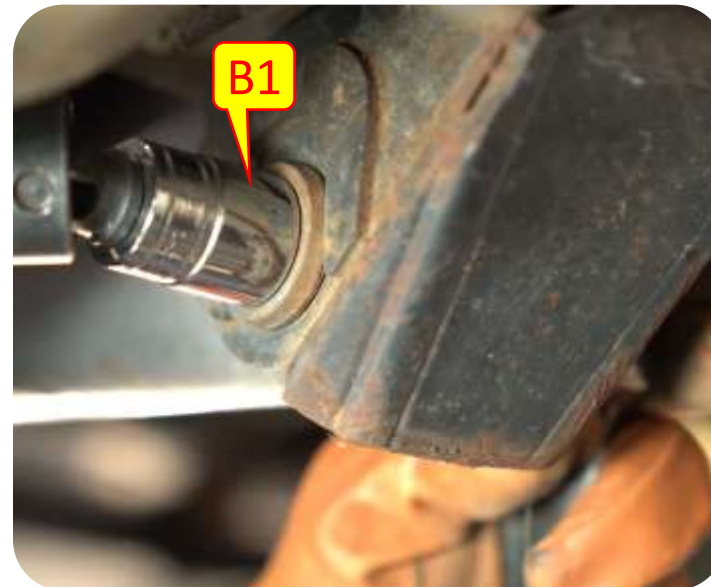
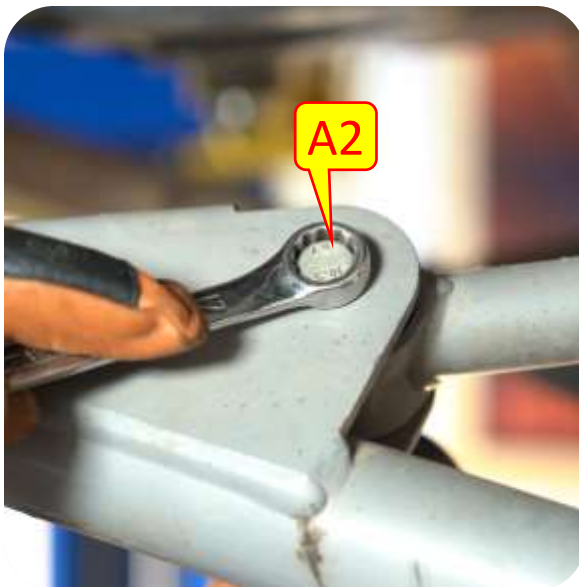
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PART NUMBER/DESCRIPTION
 7156 RUBICON EXPRESS LOCK-N-LOAD ARM UPGRADE, LJ

Section 3: Installation Instructions

Step 1: Remove the Rubicon Express Front Control Arms

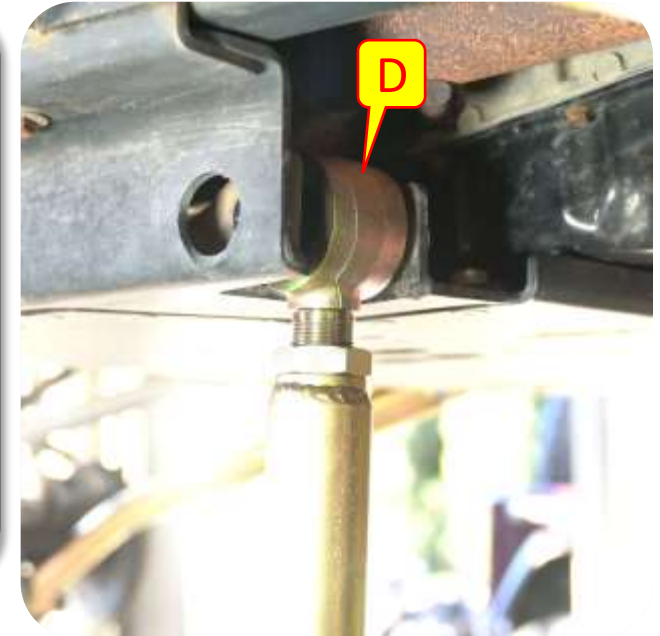
- A. Using a 17mm socket and wrench remove the Rubicon Express front upper control arm at the axle (A1) and at the lower control arm (A2).
- B. Using a 22mm socket and wrench remove the Rubicon Express front lower control arm at the axle (B1) and at the frame (B2).



Section 3: Installation Instructions

Step 2: Install the MetalCloak Lower Control Arms

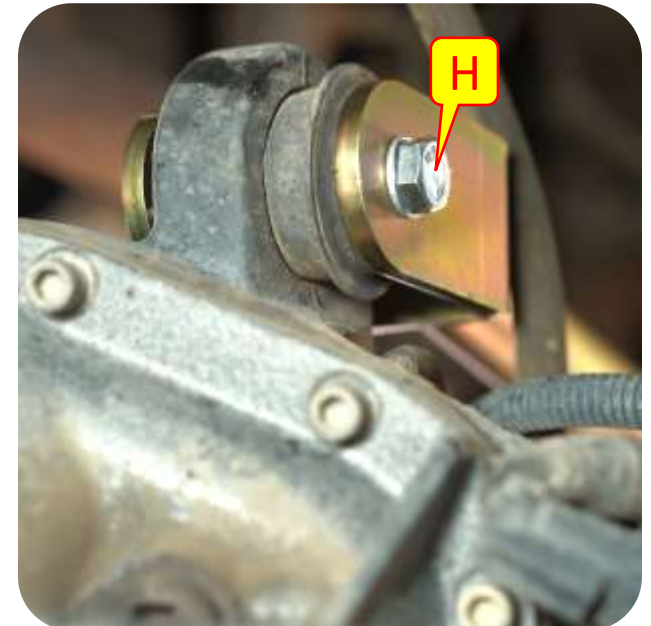
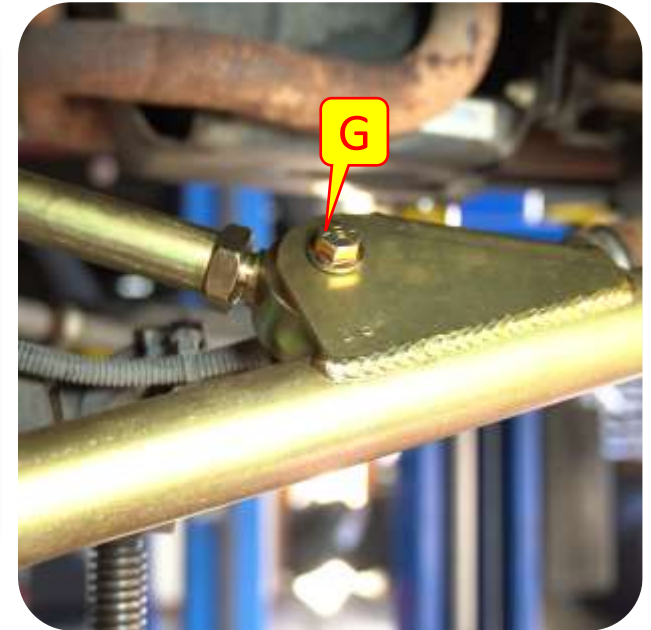
- C. Adjust the MetalCloak front lower control arm length to match the old control arm eye to eye.
- D. Install the adjustable end of the MetalCloak front lower control arm at the frame end using the provided hardware.
- E. Install the other end of the front lower control arm at the axle using the provided hardware.



Section 3: Installation Instructions

Step 3: Install the MetalCloak Front Upper Radius Arm

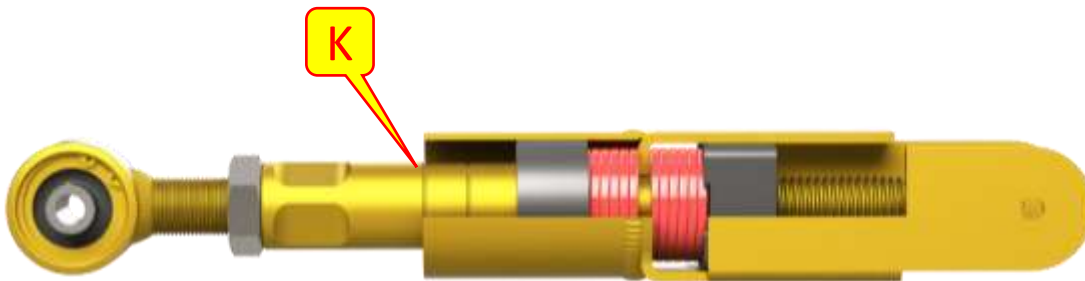
- F. Adjust the MetalCloak front upper radius control arm length to match the old control arm eye to eye.
- G. Install the adjustable end of the MetalCloak radius control arm at the front lower control arm end on the driver side using the provided hardware.
- H. Install the other end of the MetalCloak radius control arm at the axle using the provided hardware.



Section 3: Installation Instructions

Step 4: MetalCloak Lock-N-Load Set Up

- I. Take the Lock-N-Load control arm and make sure that it is in the Locked position (*springs are completely compressed*).
- J. If the Lock-N-Load is not in the locked position you may place the square section of the Lock-N-Load body in a vise and gently clamp to hold.
- K. Using a 1 ¼" wrench turn the adjustment of the control arm clockwise until the line on the arm corresponds with the lock position.
- L. Adjust the coupler on the control arm to the earlier recorded measurement (*radius arm eye to eye length*) and tighten jam nut with a 1 ½" wrench.

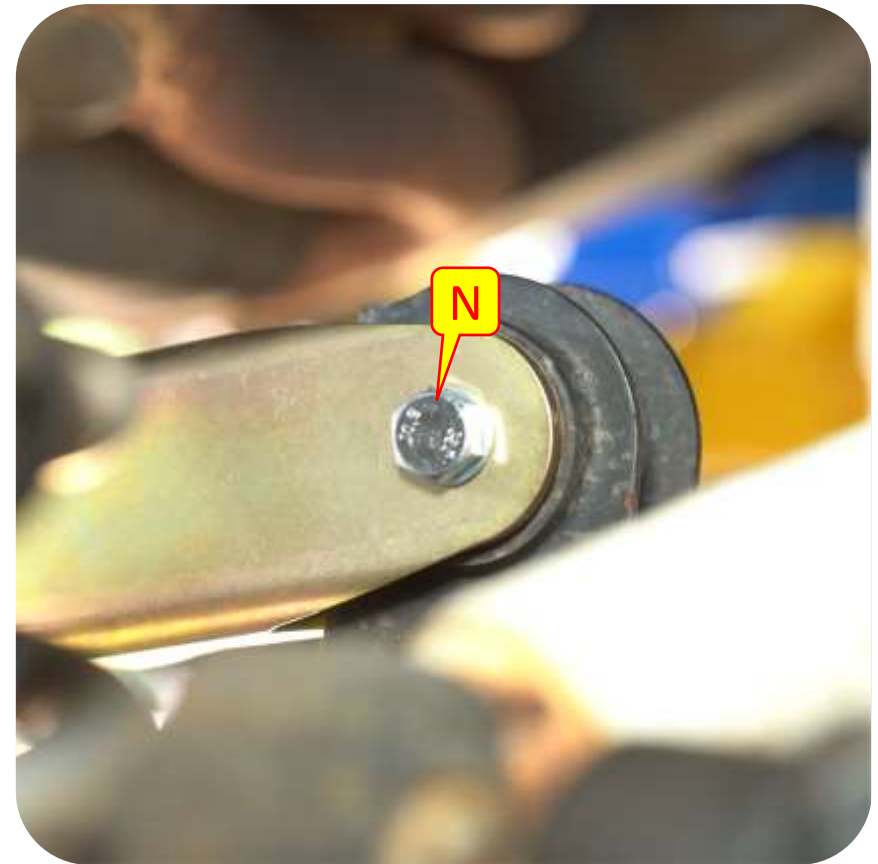
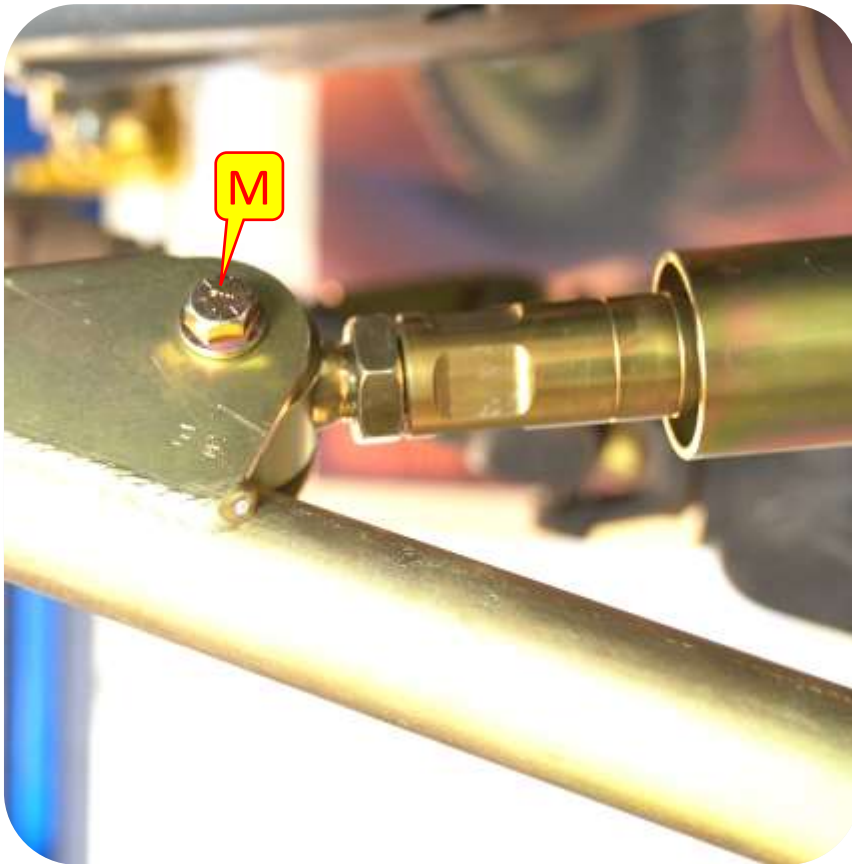


Section 3: Installation Instructions



Step 5: Install the MetalCloak Lock-N-Load

- M. Install the adjustable end of the MetalCloak Lock-N-Load at the front lower control arm end using the provided hardware.
- N. Install the other end of the Lock-N-Load at the axle using the provided hardware.



Section 3: Installation Instructions

Step 6: Remove the Rubicon Express Lower Rear Control Arms

- O. Using a 22mm socket and wrench remove the Rubicon Express rear lower control arm at the axle (O1) and at the frame (O2).



Section 3: Installation Instructions

Step 7: Install the MetalCloak Lower Control Arms

- P. Adjust the MetalCloak rear lower control arm length to match the old control arm eye to eye.
- Q. Install the adjustable end of the MetalCloak rear lower control arm at the frame end using the provided hardware.
- R. Install the other end of the rear lower control arm at the axle using the provided hardware.



Section 3: Installation Instructions



Step 8: Adjust Caster

- S. Adjust the axle caster.
- T. Tighten all control arm hardware and jam nuts:
 - Jam Nuts** – Large Adjustable Wrench
 - Front Lower Control Arms** – 22mm Socket & Wrench
 - Front Upper Radius Arm** – 19mm Socket & Wrench
 - Lock-N-Load Control Arm** – 19mm Socket & Wrench
 - Rear Lower Control Arms** – 22mm Socket & Wrench