



PRODUCT: JL Wrangler Lock-N-Load Front Long Arm Kit

REV: D | 04-05-2024 | II-7287

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

10MM Socket 13MM Socket
18MM Socket 21MM Socket
24MM Socket 15/16" Socket
3/4" Socket



18MM Wrench 21MM Wrench
24MM Wrench 15/16" Wrench

Cutoff Wheel/Grinder
Or Torch



5/16" Allen 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 B

SHEET 1 OF 1

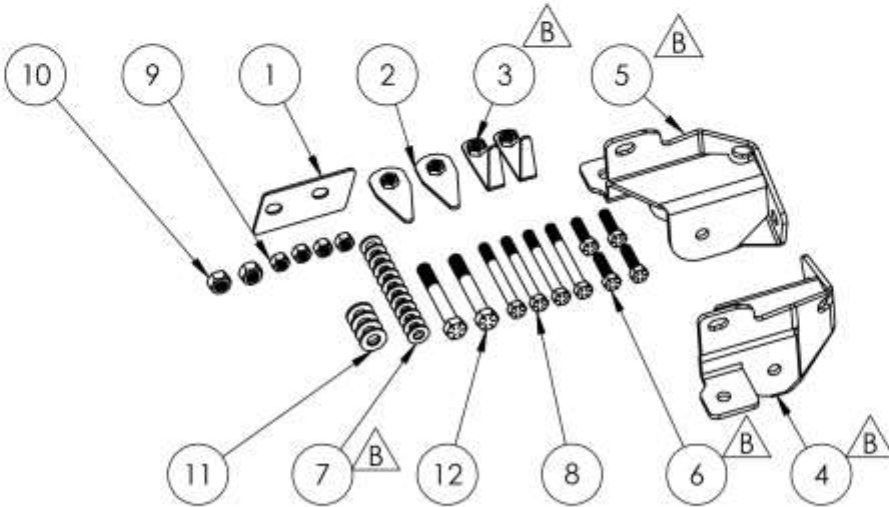
| ITEM. | PART NUMBER / DESCRIPTION | QTY. |
|-------|--|------|
| 1 | 6361 SKID PLATE SYSTEM UPGRADED CROSS-MEMBER, JLU JT | 1 |
| 2 | 7231 RADIUS ARM KIT, FRONT JK | 1 |
| 3 | 7232 LOCK-N-LOAD RADIUS ARM KIT, JK | 1 |
| 4 | 7295 LONG ARM MOUNT LOWER, FRONT JL-JT | 1 |
| 5 | 7296 RADIUS LONG-ARM SET, JL FRONT LOWER | 1 |

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DO NOT SCALE DRAWING

MetalCloak
 A DIVISION OF ARMORED WORKS, LLC

PART NUMBER/DESCRIPTION 7287 LOCK N LOAD FRONT SYSTEM, JLU

Section 2: Product Components

| ITEM. | PART NUMBER / DISCRIPTION | QTY. |
|--|--|------|
| E | 1 SS-0325 BACKING PLATE, LONG-ARM MOUNT LOWER, FRONT JL JT | 1 |
| | 2 WM-5897 WELDMENT, FLAG NUT .5-13, LOWER LONG-ARM MOUNT JL JT | 2 |
| | 3 WM-5898 WELDMENT, FLAG NUT 5-13, LONG ARM MOUNT JL JT | 2 |
| | 4 WM-5954 WELDMENT, LONG-ARM MOUNT LOWER, FRONT JL JT | 1 |
| | 5 WM-5954-P WELDMENT, LONG-ARM MOUNT LOWER, FRONT JL JT | 1 |
| HK-7295 | | |
| D | 6 FS-08173 HHCS, 0.5-13 x 1.75L STL G8 ZINC FULL THREAD | 4 |
| | 7 FS-08307 WASHER, 0.53ID X 1.06OD X 0.20TH STL GR8 GOLD ZINC | 12 |
| | 8 FS-08322 HHCS, 0.50-13 x 4.50L STL G8 GOLD ZINC | 4 |
| | 9 FS-08359 TOPLOCK NUT, 0.5-13 X .44H STL GC STL ZINC | 4 |
| | 10 FS-10130 TOPLOCK NUT, 0.63-18 X 0.55H STL GC CAD | 2 |
| | 11 FS-10161 WASHER, 0.66ID X 1.31OD X 0.14TH STL GR8 GOLD ZINC | 4 |
| | 12 FS-10295 HHCS, 0.63-18 X 4.25L STL G8 ZINC | 2 |
|  | | |
| <p>THE INFORMATION CONTAINED ON THIS DRAWING IS THE EXCLUSIVE PROPERTY OF ARMORED WORKS, LLC. UNAUTHORIZED REPRODUCTION IS PROHIBITED.</p> <p>DO NOT SCALE DRAWING</p> <p>Metal Cloak A DIVISION OF ARMORED WORKS, LLC.</p> <p>PART NUMBER/DESCRIPTION 7295 LONG ARM MOUNT LOWER, FRONT JL-JT</p> | | |

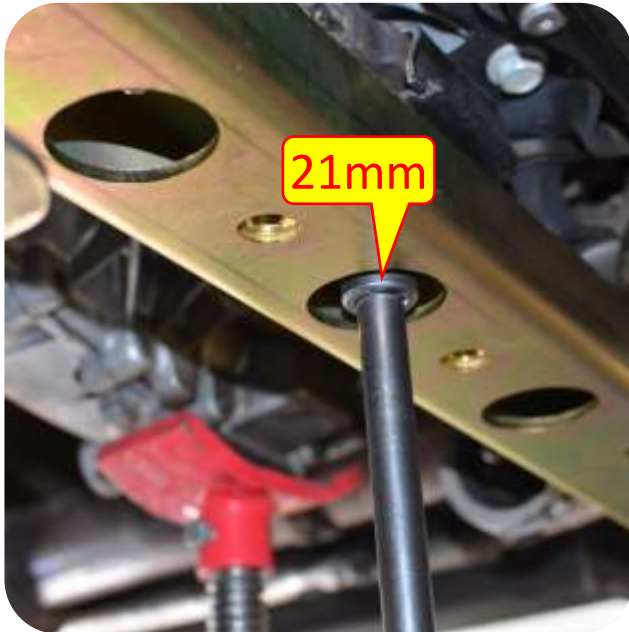
Section 3: Installation Instructions



Step 1: Install MetalCloak Crossmember

Note: Before removing the crossmember support the transmission and transfer case with jackstands.

- A. Remove the factory cross member and install the provided MetalCloak cross member using 21mm socket at the transmission mount, a 13mm socket for the exhaust mount and 18mm socket and wrench for the crossmember.



Section 3: Installation Instructions

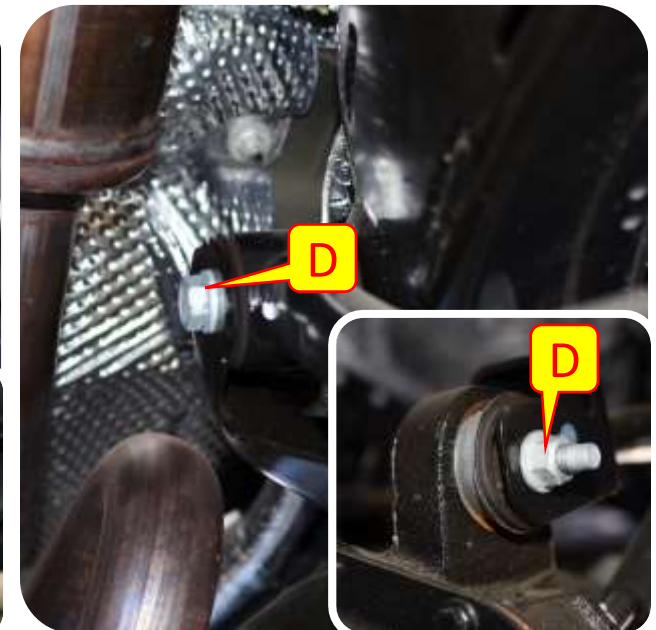
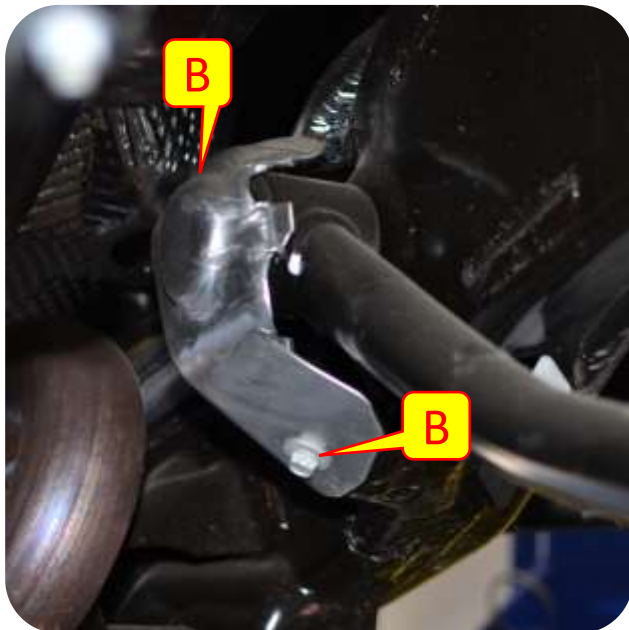
Step 2: Disconnect Front Control Arms (*Stock Control Arms*)

Note: Make sure to use jack stands to support the axle before removing the control arms.

Note: The brake line on the lower front control arms (drivers and passenger side) must be removed from the bracket. It may be pried out or cut; be VERY careful not to damage the brake line!!!

Note: On the passenger side upper control arm you will need to cut the stock bolt as the exhaust interferes with the bolt removal.

- B. Disconnect the upper control arm heat shield on both sides at the frame using a 10MM Socket. Save heat shields and all hardware.
- C. Use a 24mm Socket & Wrench to remove the stock bolts from the front lower control arms. **Save all hardware.**
- D. Using a 18mm wrench and socket remove the Front Upper Control Arms. **Save all hardware.**

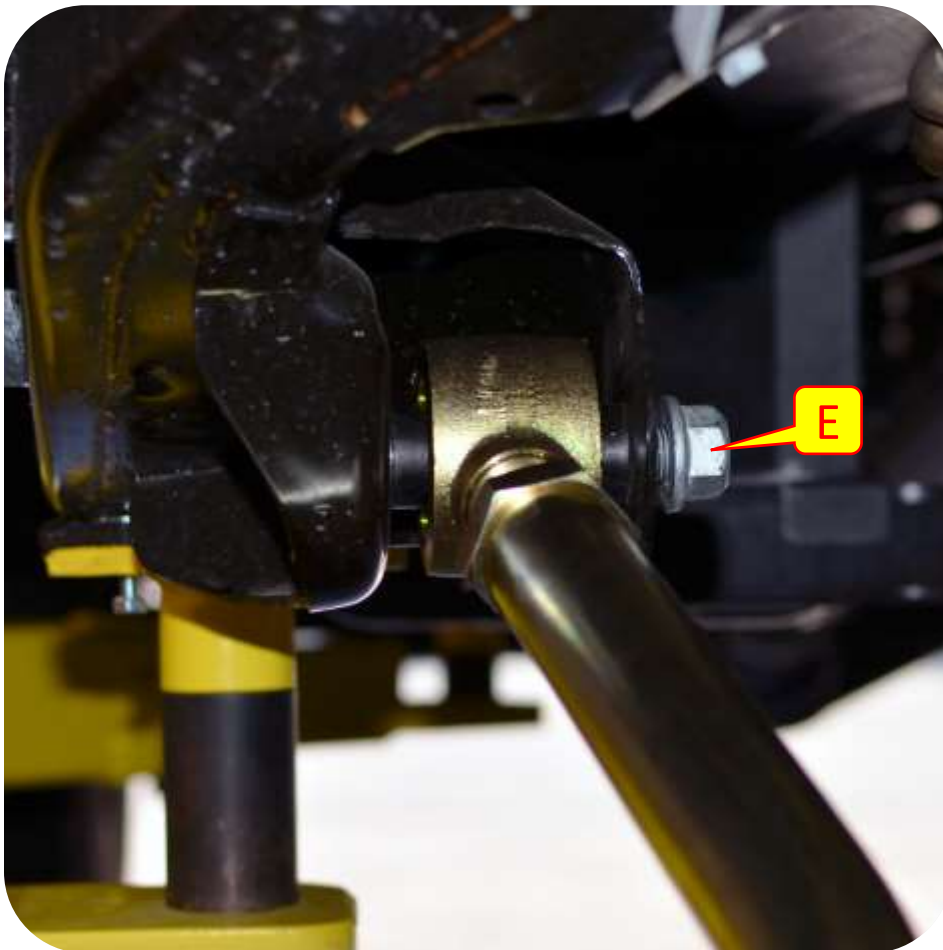


Section 3: Installation Instructions

Step 2: Disconnect Front Control Arms (*MetalCloak Mid Arms*)

Note: Make sure to use jack stands to support the axle before removing the control arms.

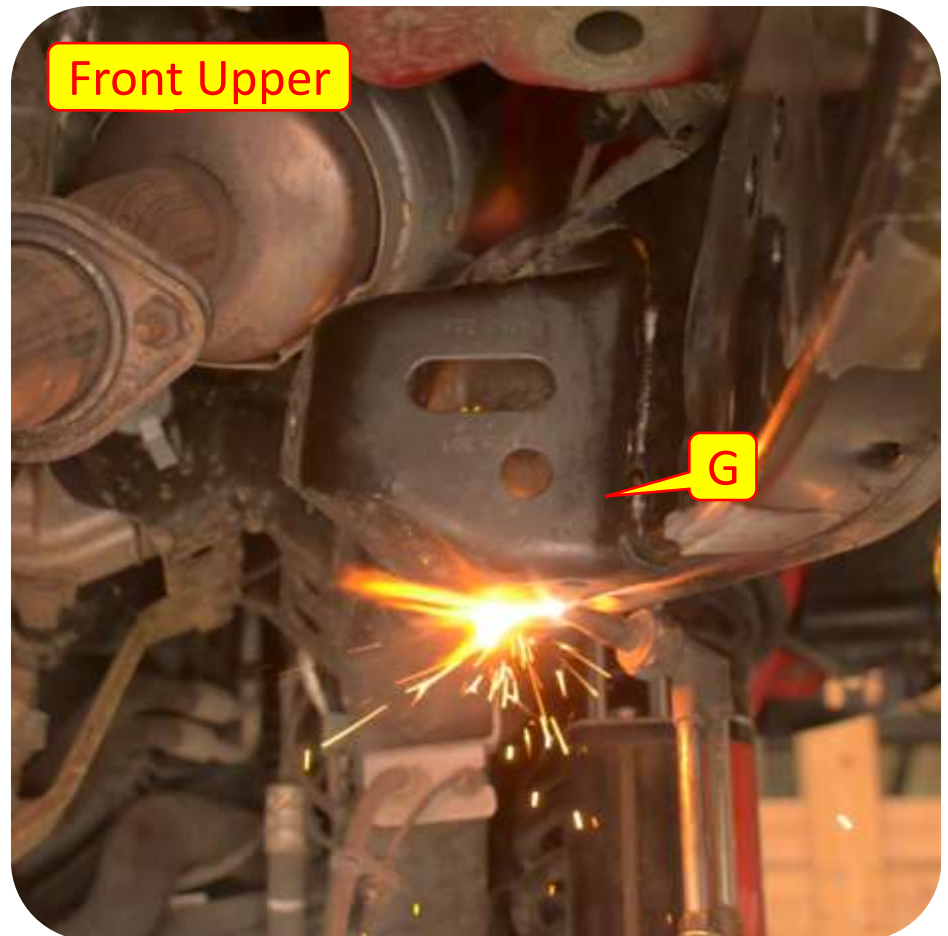
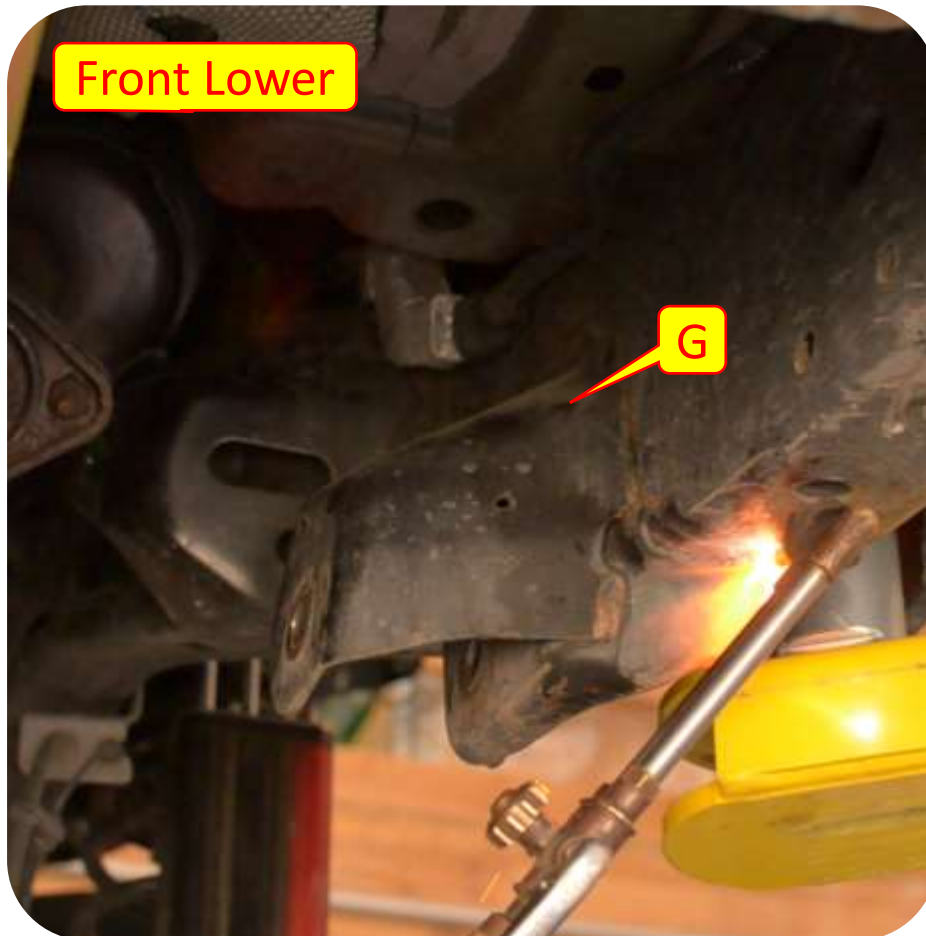
- E. Disconnect the front lower control arms using a 24mm socket & wrench. **Save Hardware.**
- F. Disconnect the front upper control arms using a 3/4" socket on the passenger side and a 18mm socket and wrench on the driver side. **Save Hardware.**



Section 3: Installation Instructions

Step 3: Removing Stock Control Arm Mounts

- G. Using a cut off wheel & grinder or torch remove the factory front control arm brackets from the frame.
- H. Clean and paint any exposed metal to prevent rust.



Section 3: Installation Instructions

Step 4: Install the Front Lower Control Arm Bracket

- I. Install the lower control arm bracket to the crossmember using the provided 1/2" bolts (3/4" head), washers and nuts and hand tighten.

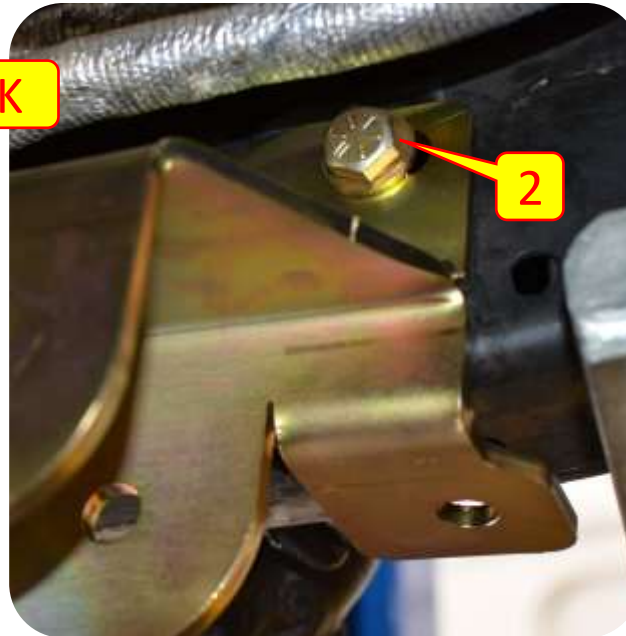
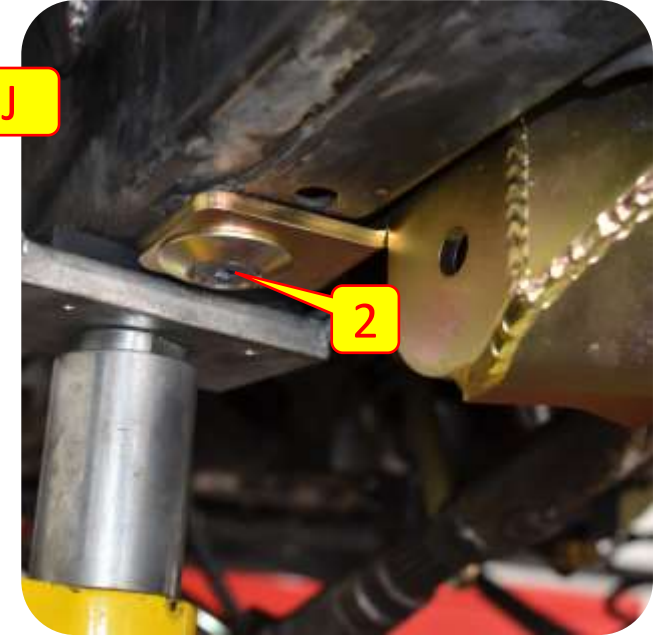
Note: *The passenger side lower control arm bracket comes with a shim to be placed between the bracket and the crossmember.*



Section 3: Installation Instructions

Step 4: Install the Front Lower Control Arm Bracket

- J. Insert flag nut (*BOM#3*) into the frame and install 5/16" allen bolt and skid washer through the control arm bracket at the bottom of the frame.
- K. Insert flag nut (*BOM#4*) into the side of the frame and install 3/4" bolt through control arm bracket and frame.
- L. Tighten all lower control arm bracket hardware.



Section 3: Installation Instructions

Step 4: Install the Front Lower Control Arm Bracket

Note: Measure the lower front control arms to 37 1/2" and upper control arms to 19 5/8" eye to eye. These control arm specifications are just starting points. ALL JEEPS ARE DIFFERENT. MetalCloak recommends seeing a suspension specialist for correct control arm lengths for YOUR Jeep.

- M. Install the provided MetalCloak Lower radius arms into the axle and bracket at the crossmember using 15/16" socket and wrench at frame and factory 21mm bolt at axle.
- N. Install the upper radius arm on the passenger side using a 3/4" socket and wrench at the lower arm side and at the axle using a 18mm socket and wrench.
- O. Set the caster to 4-6 degrees.
- P. Install the Lock-N-Load on the driver side using a 3/4" socket and wrench at the lower arm side and at the axle using a 18mm socket and wrench.

