



PRODUCT: JL Lock-N-Load Long Arm, Stock Shock

REV: C | 03-20-2024 | II-A4335-A4345

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.

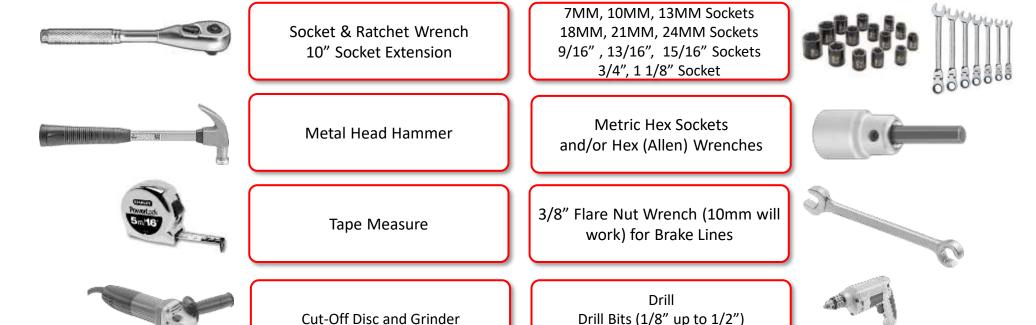
If you have any difficulties at all, please give us a call. Thank you and enjoy your MetalCloak Products!

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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. Be sure to use metric on metric and SAE on SAE.



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.

Center Punch

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



	1 2	3 4	4	5	6	7	8
ITEM	PART NUMBER	/DESCRIPTION	QTY.				
1	7040 BUMP STOP KIT, 1.0-4.0	JK FRONT	1				
2	7043 BUMP STOP KIT, 1.0-4.0	REAR	1				
3	7277 OFFSET SWAY BAR LINK	KIT, 12IN, JL REAR	1				
4	7287 LOCK N LOAD FRONT S	SYSTEM, JLU	1				
5	7642 TRACK BARS, JL FRONT	+REAR	1				
OPTI	ONS:						
1) SH	HOCKS:			(5)	(3) (4)	(1) (2)	
N	O SHOCKS	(A5902)		(3)			
	OUTBOARD SHOCKS, JL	(A5100)		1	/ /		
	rock shocks	(A5103)		1 /		/	
e-	OCKSPORT SHOCKS JL	(A5101)		0	∞ (D /	/	
	PAK SHOCK JL	(A5102)		/ { 1	m # / .	/	
	AK SHOCK JE	(A3102)		/ / /	- <i>∥</i> / m=		h
2) FN	NGINE:			/ H /			ă
	DR DIESEL	(7673-D)		/ 0	· a /		
	DR 3.6L GAS	(7673-G)		1 ~		° 0 0 0 .	_
	DR TURBO/3.6L E-TORQUE	(7673-T)		1		° 0 0 0 •	_
- 41	DR TORDOTO.OE E TORQUE	(10101)			Tien Č		452.0
					- 1		
3) IF	EP MODEL						9
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	ON-RUBICON QD-LINKS	(7614)		1-		<u></u>	•
3130	SIV-KODICON QD-LINKS	(7014)					
/) PE	EAR ARM SECECTION:		1	•	- PE	•	
25.090	EAR BOLT ON LONG ARM	(7289)	1		#		
EH 1999	B3 BRACKET KIT	(7260)	4	đị -	1 (()	-	
-	BS BRACKET KIT	(7200)	_			T.	
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			UNA		CALE DRAWING		MORED WORKS, LLC
			PART	NUMBER/DESCR	IPTION		
			A43	45 JL WRANG	LER GAME CHANC	GER RADIUS ARM LO	CK-N-LOAD 4.

Section 2: Product Components

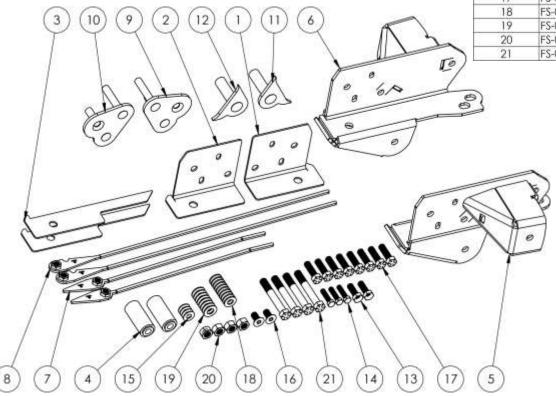


C-0001 R			FT 25005				SHEET 1 OF 2
	1 2	3	4	5	6	7	8
ITEM.	ITEM. PART NUMBER / DISCRIPTION 1 SS-0325 BACKING PLATE, LONG-ARM MOUNT LOWER, FRONT JL JT				QTY.		
1					1		
2	WM-5897 WELDMENT, FL	AG NUT .5-13, LOV	WER LONG-ARM	MOUNT JL JT	2		
3	WM-5898 WELDMENT, FLAG NUT 5-13, LONG ARM MOUNT JL JT			2			
4	WM-5954 WELDMENT, LC	ING-ARM MOUNT	LOWER, FRONT	JL JT	1		
5	WM-5954-P WELDMENT,	LONG-ARM MOU	NT LOWER, FRON	T JL JT	1		
	=======================================	HK-729	95				
6	6 FS-08173 HHCS, 0.5-13 x 1.75L STL G8 ZINC FULL THREAD						
7	7 FS-08307 WASHER, 0.53ID X 1.06OD X 0.20TH STL GR8 GOLD ZINC						
8	FS-08322 HHCS, 0.50-13 >	4.50L STL G8 GOI	LD ZINC		4		
9	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 ST	L GC CAD		2		
11	1 FS-10161 WASHER, 0.66ID X 1.31OD X 0.14TH STL GR8 GOLD ZINC				4		
12	FS-10295 HHCS, 0.63-18)	(4.25L STL G8 ZINC	0		2		
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				PART NUMBER/DES		ARM MOUNT LOV	WER. FRONT II - I'

Section 2: Product Components



ITEM NO.	PART NUMBER	QTY.
HEM NO.		SKI II.
1	SS-0289 SIDE SHIM PLATE, 4-LINK MOUNT, REAR JK-JL	1
2	SS-0289-P SIDE SHIM PLATE, 4-LINK MOUNT, REAR JK-JL	1_
3	SS-0290 BOTTOM SHIM PLATE, 4-LINK MOUNT, REAR JK-JL	2
4	SS-0312 THREADED FRAME INSERT, 4-LINK MOUNT, REAR JL	2
5	WM-5890 WELDMENT, 4-LINK MOUNT, REAR JK-JL	1
6	WM-5890-P WELDMENT, 4-LINK MOUNT, REAR JK-JL	1
7	WM-5950 WELDMENT, SIDE STICK NUT, 4-LINK MOUNT JL	2
8	WM-5951 WELDMENT, BOTTOM STICK NUT, 4-LINK MOUNT JL	2
9	WM-5956 WELDMENT, LARGE FRAME PLATE, 4-LINK MOUNT REAR JL	- 1
10	WM-5956-P WELDMENT, LARGE FRAME PLATE, 4-LINK MOUNT REAR JL	1
11	WM-5957 WELDMENT, SMALL FRAME PLATE, 4-LINK MOUNT, REAR JL	1
12	WM-5957-P WELDMENT, SMALL FRAME PLATE, 4-LINK MOUNT, REAR JL	1
	HK-7299	
13	FM-12350 HHCS, M12-1.5 X 35L STL C10.9 GOLD ZINC	2
14	FS-06015 HHCS, 0.38-16 x 1.5L STL G8 ZINC, FULL THREAD	4
15	FS-06142 WASHER, 0.41ID X 1.00D X 0.09TH STL ZINC	4
16	FS-08083 SFHCS, 0.5-13 X 1.00L STL G8 ZINC	2
17	FS-08173 HHCS, 0.5-13 x 1.75L STL G8 ZINC FULL THREAD	8
18	FS-08307 WASHER, 0.53ID X 1.06OD X 0.20TH STL GR8 GOLD ZINC	10
19	FS-09119 WASHER, 0.59ID X 1.16OD 0.10TH STL GOLD ZINC	8
20	FS-09305 TOPLOCK NUT, 0.56-18 X .48H STL GC STL ZINC	4
21	FS-09313 HHCS, 0.56-18 X 4.0L STL GOLD ZINC	4





Important Note: MetalCloak recommends replacing the factory drive shaft. The factory drive shaft binds at transfer case side and the factory drive shaft is too short for additional travel. An aftermarket drive shaft clears t-case and is optimal for maximum travel









Important Note: MetalCloak does not recommend powder coating your True Dual Rate Coils. The baking process in powder coating can, in some cases, cause the metallurgical properties of the coils to be changed, resulting in the loss of the lift properties of the coils. As such, the process of powder coating the coils will void any warranty stated or implied in relation to the coils.

Important Note: To install lift components you will need to fully 'droop' your suspension in the front and rear (not at the same time). We strongly recommend that the vehicle be placed on an automotive lift and that all appropriate safety precautions be taken to secure the vehicle while it is off the ground. Always use the necessary axle stands (or equivalent) to support the axle when the suspension components are disconnected for safety, and to ensure the integrity of your suspension system during the installation process.

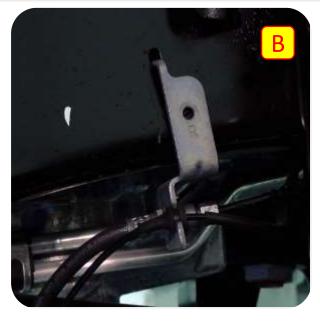


Step 1: Remove Stock Components

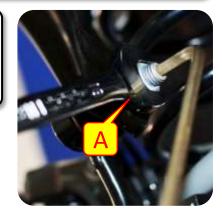
- A. Disconnect front sway bar links using a 18MM wrench and 6MM Allen Wrench. Save all Hardware
- B. Using a 10MM Socket disconnect the brake line brackets that is attached to the frame. Save all Hardware.

Important 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 carful not to damage the brake line!!!

Important Note: To help prevent strain on the brake lines MetalCloak recommends clipping all zip ties attached to the brake lines.









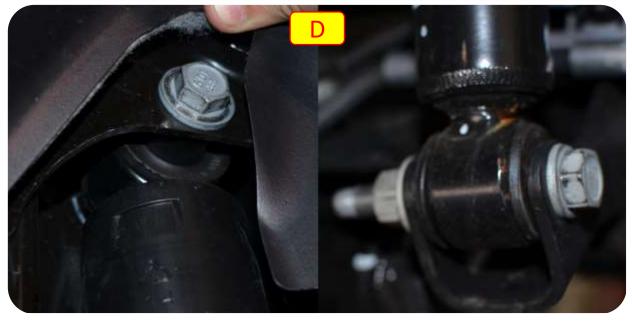


Step 1: Remove Stock Components

Important Note: Disconnect any electronics attached to the axle (Locker plug, Front axle disconnect plug, etc.)

- C. Using a 21MM Socket disconnect the stock track bar. Save all hardware.
- D. Use a 18MM Socket and Wrench to remove the shocks. Save all hardware
- E. Remove stock springs, and any spacers that have been used if vehicle has been previously lifted.





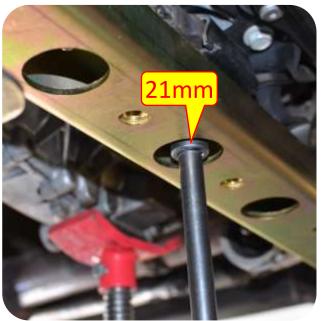




Step 1: Install MetalCloak Crossmember

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

F. 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.









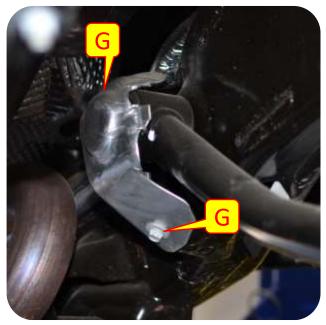
Step 2: Disconnect Front Control Arms (Stock Control Arms)

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

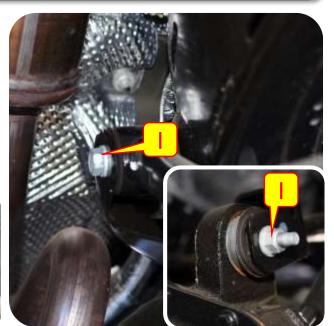
Note: The brake line on the lower front control arms (drivers and passenger side) must be removed from the bracket. It may be pried out or cut; be VERY carful not to damage the brake line!!!

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

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









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.

- J. Disconnect the front lower control arms using a 24mm socket & wrench. Save Hardware.
- K. 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.

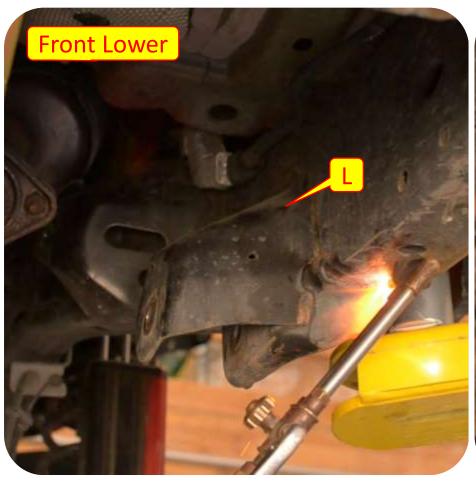


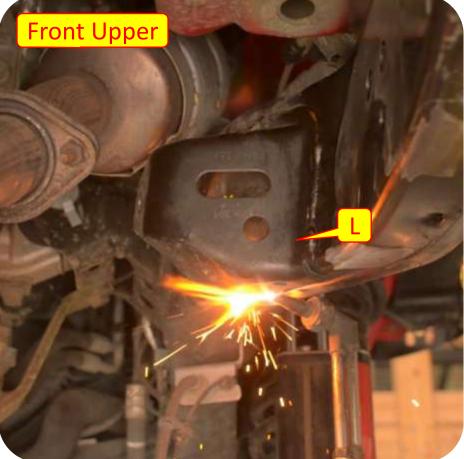




Step 3: Removing Stock Control Arm Mounts

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



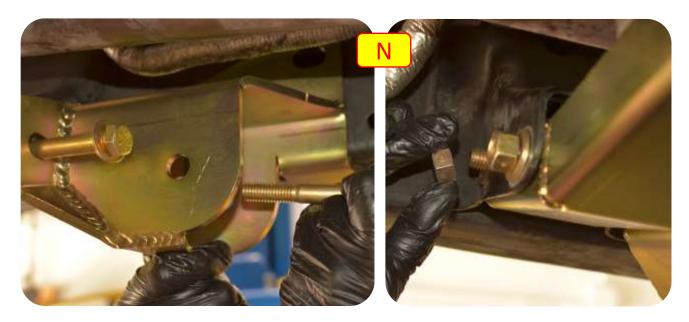


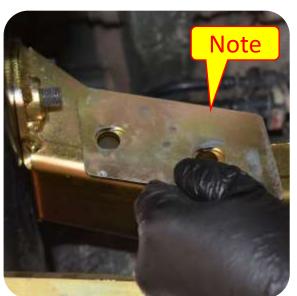


Step 4: Install the Front Lower Control Arm Bracket

N. 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.

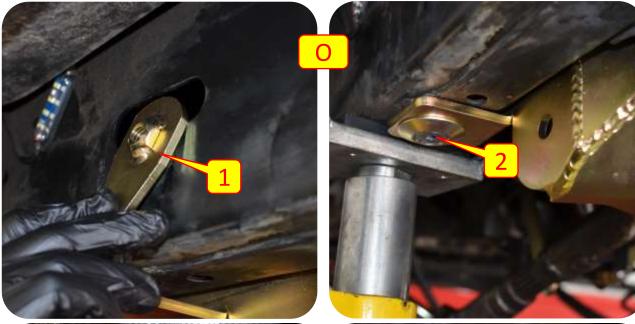


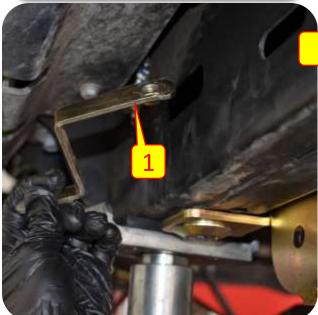


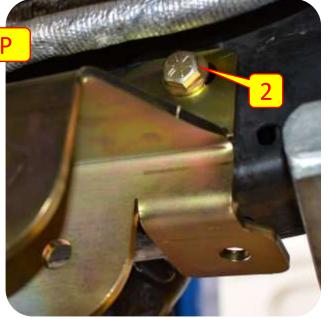


Step 4: Install the Front Lower Control Arm Bracket

- O. 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.
- P. Insert flag nut (BOM#4) into the side of the frame and install 3/4" bolt through control arm bracket and frame.
- Q. Tighten all lower control arm bracket hardware.







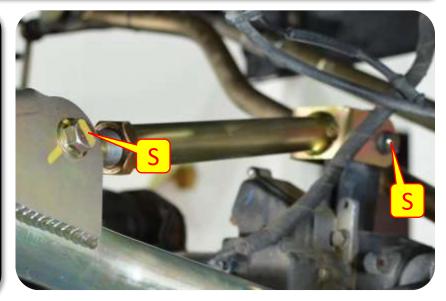


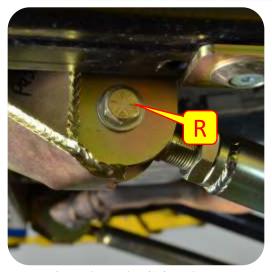


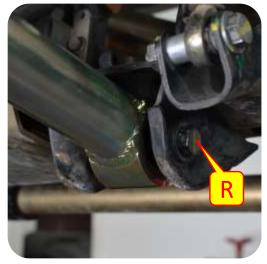
Step 4: Install the Front Lower Control Arm Bracket

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.

- R. 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.
- S. 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.
- T. Set the caster to 4-6 degrees.
- U. 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.











Coil Isolator Information Guide

Important Note: MetalCloak's suspension systems include a unique coil design that utilizes upper isolators to position the coil. The following table will help you identify where to install the isolators included with your kit. You must remove the stock isolators before installing the provided coil isolators. If you have any questions give us a call at 916-631-8071.

Coil Isolator Jeep Locations					
Tall Isolator	Jeep Model	Installation Locations			
	JL Wrangler 3.6L Non-E Torque	Upper Front Passenger			
Removersh	JL Wrangler 2.0T E-Torque	Upper Front Driver & Passenge			
	JL Wrangler 4xE	Upper Front Driver & Passenger			
	JL Wrangler Diesel	Upper Front Driver & Passenger			
	JT Gladiator Diesel	Upper Front Driver & Passenger			
Short Isolator	JK Wrangler (All Models)	Upper Front Driver & Passenger			
Fernica com	JL Wrangler 3.6L Non-E Torque	Upper Front Driver			
	JL Wrangler 3.6L E-Torque	Upper Front Driver & Passenger			
	JL Wrangler Turbo	Upper Front Driver & Passenger			
	JL Gladiator 3.6L Motor	Upper Front Driver & Passenger			
Rear Isolator	JL Wrangler 3.6L Non-E Torque	Upper Rear Passenger			
Here Terms	JL Wrangler 4xE	Upper Front Driver & Passenger			

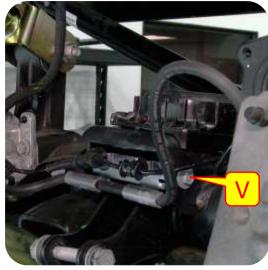


Step 8: Install Coils and Bump Stops

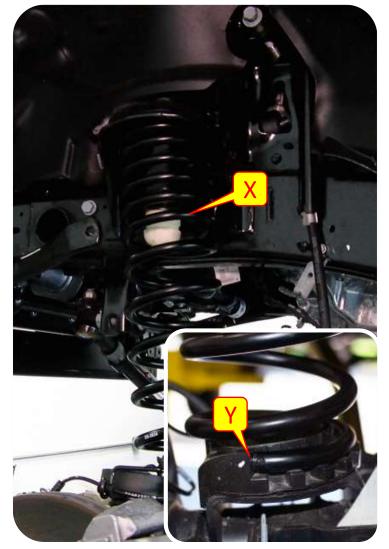
- V. Using a 10mm socket disconnect the bracket from the spring perch on the axle.
- W. Drill out the center hole using a step bit or you can start your hole with a smaller drill bit and work your way up to a 1/2".
- X. Install the front coils. Make sure the tightly wound coils are oriented upward.
- Y. Slip the bottom of the coil onto the coil base on the axle. Rotate the coil until it is seated properly on the coil base.

Important Note: If the axle does not droop enough to allow the coil to be put in place a coil compressor can be used to compress the coil to allow fitment.

Important Note: Droop your suspension to gain access to the spring perch. Be sure to watch the ABS lines so they do not get over extended and break.





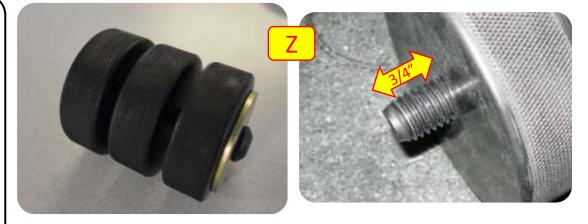


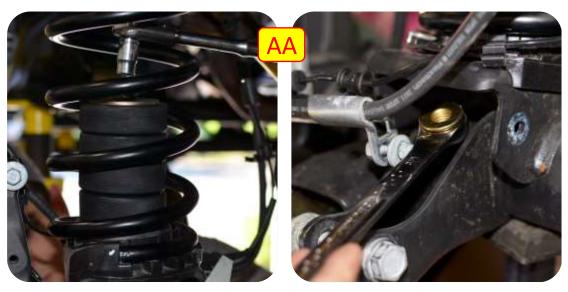


Step 8: Install Coils and Bump Stops

Important Note: Your individual build may require an addition or removal of bump stop pucks for your tire size fitment.

- Z. Select the appropriate Screw length so that the threads stick out of the bottom Disks approximately 3/4". Assemble your bump stops inside the installed coil by feeding the 1/2" Countersunk Screw through the Cover Plate, and then threading through the Bump Stop Disks. The center hole in the Disk is intentionally small to create the most rigid assembly possible after installation.
- AA. The 1/2" Screw is backed by a 1/2" Flanged Nylon Lock Nut. Install the nut and tighten the hardware using a 5/16" Hex Key Socket or Allen Wrench and a 3/4" Wrench. Tighten until everything is tight; the hardware will not bottom out, but instead will begin to compress the Disks.





Section 3: Front Shock Installation Instructions



Step 4: Install Shocks and Mounts

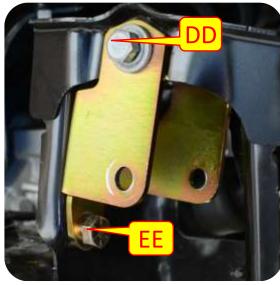
BB. Place the shock bracket into place aligning the top bracket hole to the factory location and install the stock bolt into the top hole of the bracket and tighten with the side hole against the coil bucket.

- CC. Using a 1/2" drill bit drill out the side hole. Once the hole is drilled loosen the top shock bracket bolt.
- DD. Using a 3/4 socket and wrench tighten down the side bolt.
- EE. Install the bushing end (top) of the 6Pak shock and the spacer on the inboard side of the bushing end.
- FF. Install Stock Shock.

Important Note: The front driver side shock will hit the lower shock mount during articulation you must grind the shock mount before installing. (See page 13)









Step 11: Install Front Track Bar

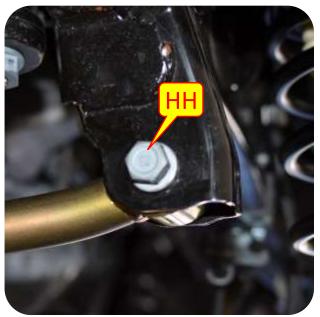
- GG. Install the front track bar. Making sure the adjustable end of the track bar goes into the stock bracket on the axle. Re use the stock hardware.
- HH. Install the fixed end of the track bar into the stock frame bracket.

 The clearance bends should point towards the front bumper, up and away from the differential cover.

 Re use the stock hardware.
- II. Fully tighten the stock hardware on both ends of the Track Bar using a 21MM socket and wrench, and then tighten the Jam Nut on the Track Bar.
- JJ. MetalCloak STRONGLY
 RECOMMENDS having your
 alignment checked by a
 professional after changing any
 suspension components.

Note: It is helpful to have someone push the vehicle to the driver or passenger side to help align the hole; if you don't have an extra pair of hands you can use a ratchet strap on the frame/axle to pull the frame in the desired direction. Lower the Jeep to the ground to ensure the axle is centered once the bolt is in place. If not then remove the bolt, adjust the Track Bar length, replace the bolt, and re-check axle centeredness. Repeat until the axle is as close to center.







Step 11: Install Front Track Bar

Note: MetalCloak uses an over-sized forged housing for additional strength; the factory window pocket may need additional clearance for optimal fitment. Use a die grinder and cutting bit to enlarge the existing window in the factory track bar bracket.







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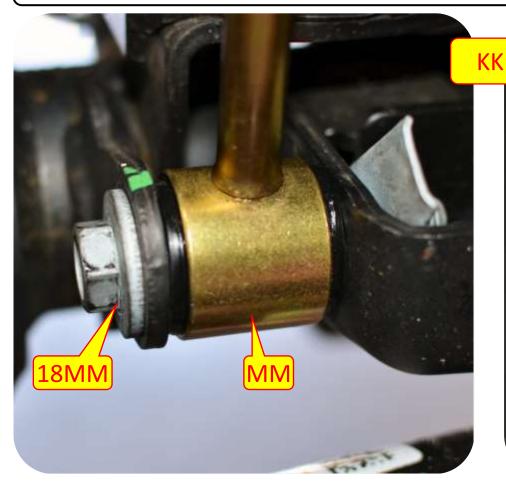


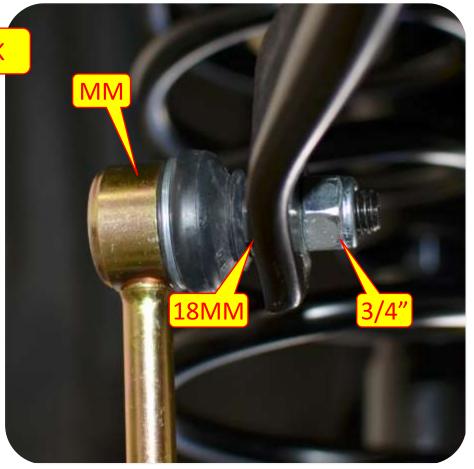
Step 12: Install Sway Bar End Links

- KK. Using the factory hardware install the bottom of the MetalCloak extended sway bar links.
- LL. Using the supplied hardware install the top of the MetalCloak extended sway bar links

MM.Tighten sway bar end links with an 18MM Wrench for the factory hardware and a 3/4" & 18MM wrench for the supplied hardware.

Important Note: MetalCloak recommends using red
Loctite on each of the upper spindles of the sway bar end links.







Step 13: Finalize Installation

NN. Adjust the caster angle and toe as needed. Once set, tighten all hardware, Re attach all brackets and reinstall the heat shield. Finally, tighten the jam nuts on all control arms.

Note: When lifting any vehicle, basic dynamics are changed. It is important to take your vehicle to a professional for an alignment after installation. Make sure caster setting is adjusted for a lifted vehicle (not stock specs).



Step 1: Remove Stock Components

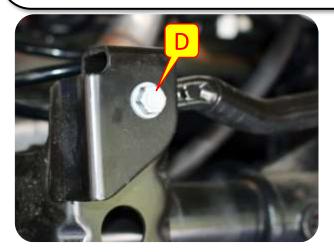
Important Note: MetalCloak Recommends removing the bottom rear fender well plate for easier access to the upper shock bolts by using a 8MM socket wrench.



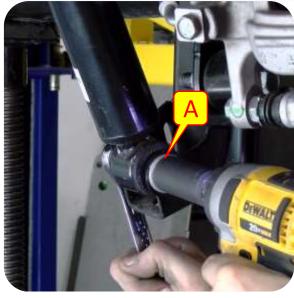


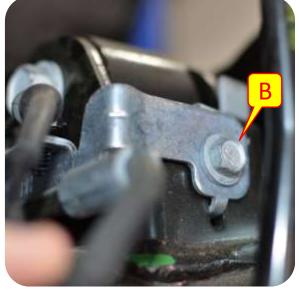
Step 1: Remove Stock Components

- A. Using a 18mm socket and wrench disconnect the stock shocks. **Save all hardware.**
- B. Disconnect the brake line brackets and E-brake cable on the axle to help allow for full droop.
- C. Disconnect the rear sway bar links using an 18MM wrench and 6MM Allen wrench. Save all hardware.
- Using a 21MM Socket and wrench disconnect the stock rear track bar.Save all Hardware.
- E. Remove Stock Coils.



Important Note: Disconnect any electronics attached to the axle (Locker plug, etc.)









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Step 2: Remove Gas Tank

- D. Remove filler breather by removing the plastic retaining clip before pressing on the line fitting.**be careful not to break as they are not very strong**
- E. Remove any plastic "Christmas trees" that may be connecting the fuel line to the gas tank.
- F. Remove the fuel lines in front of the gas tank by removing plastic retaining clip before pressing down on the line fitting. **Be careful as these lines may be under pressure and release fuel. We recommend using a container to catch any released fuel to prevent mess.**







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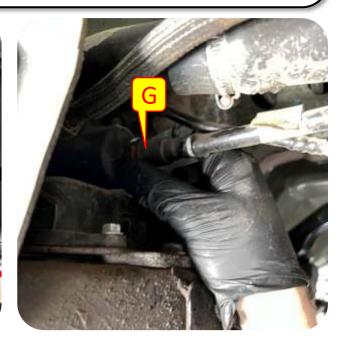
Step 2: Remove Gas Tank

- G. Remove evap canister hoses by pressing on the line fittings.
- H. Remove the gas tank.

Important Note: Move the gas tank at least 25 ft away and make sure the room is well vented as we will be drilling and grinding.



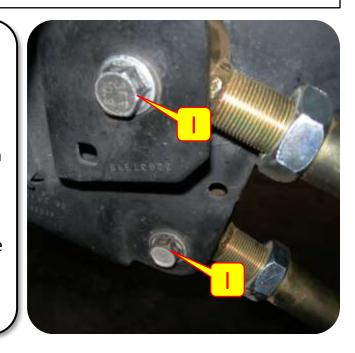






Step 3: Rear Control Arm Bolt On Bracket Installation

- I. Support the rear axle with jack stands and remove the rear control arms using a 21mm socket and wrench.
- J. Using a cut off wheel/grinder or torch; remove the existing rear control arm brackets from the frame, clean the frame and paint the left-over exposed metal.
- K. Make sure to grind down the factory weld spatter on each side of the frame so it is flush and paint the exposed metal to prevent rust









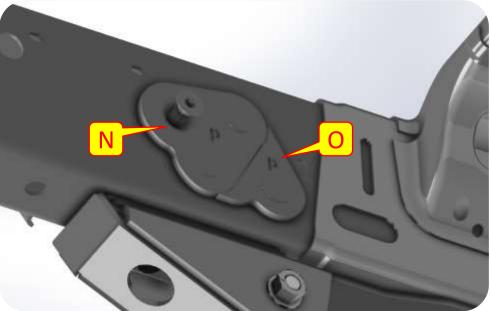


Step 3: Rear Control Arm Bolt On Bracket Installation

- L. Thread in the tapered flat head bolt into the threaded frame insert as shown, this will help prevent losing it inside the frame by accident.
- M. Insert the spacer through the outer part of the frame as shown.
- N. Once the space is lined up, remove the hardware and place the large frame plate onto the frame, then reinstall the 5/16 allen flat head bolt.
- O. Install the small frame plate.



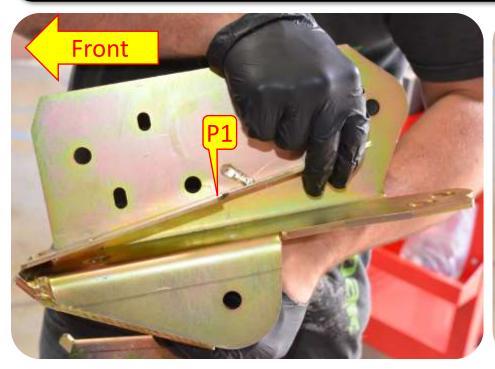






Step 3: Rear Control Arm Bolt On Bracket Installation

P. Place the control arm bracket shims into the inside of the rear control arm bracket.

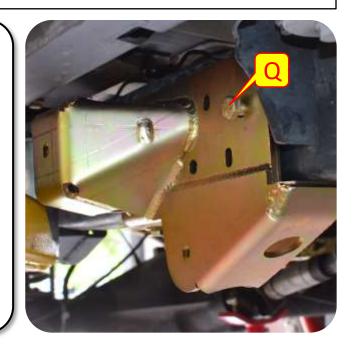


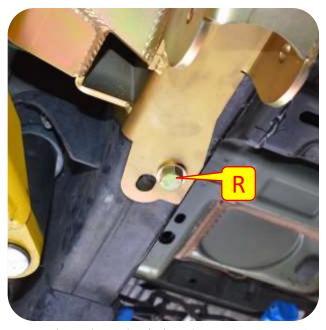




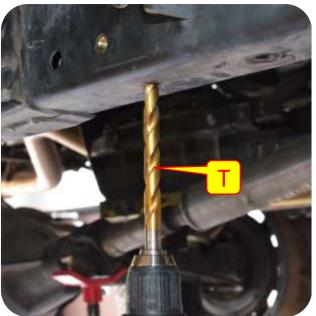
Step 3: Rear Control Arm Bolt On Bracket Installation

- Q. Place the long arm bracket onto the frame and install the provided 1/2 bolts (3/4" heads). We recommend using a floor jack or clamp to hold the bracket tight to the frame.
- R. Install provided 12mm bolts (18mm bolt head) hardware into the bottom of the bracket.
- S. Mark the hole location at the bottom and side of the bracket for drilling.
- T. Remove the bracket drill out the marked locations starting with a smaller drill bit, work your way up to 1/2 drill bit. We recommend painting any exposed metal to prevent rust.







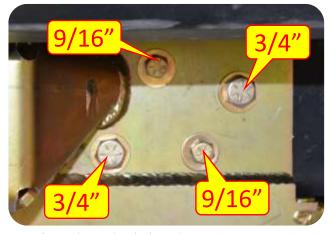


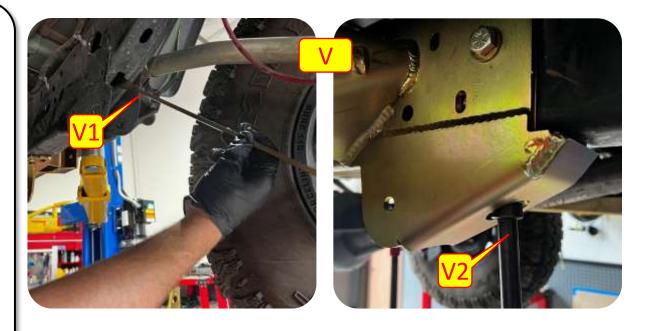
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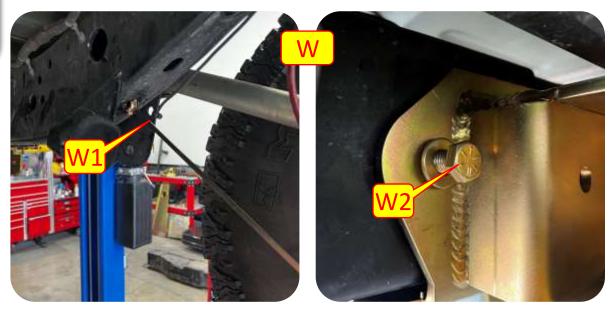


Step 3: Rear Control Arm Bolt On Bracket Installation

- U. Reinstall the bracket with shims onto the frame, installing the 1/2" bolts (3/4 heads) and 3/8" in bolts with(9/16" heads) hardware.
- V. Insert the longer flag nut (BOM#8) though the hole located in the factory lower control arm mount and install the 1/2" bolt (3/4" head) hardware into the hole that was drilled in Step T.
- W. Insert the shorter flag nut (BOM#7) through the hole located in the factory lower control arm mount and install the 1/2" bolt (3/4" head) hardware into the hole located at the rear of the bracket.









Step 4: Gas Tank Installation

Important Note: If you're installing the rear long arm kit with our UnderCloak system. Check to see if the UnderCloak system will mount without modification. If the UnderCloak does not fit the gas tank skid plate will need to be modified, you will need to notch out the gas tank skid plate and reinstall the skid plate (See Last Page for Instructions).

Important Note 2: Cut off the gas tank mount as shown. Make sure there is plenty of ventilation before cutting the mount off.





Important Note 3: Notch the tab in front of the gas tank tab that was removed. This will help the gas tank clear the rear bolt on control arm mounts.

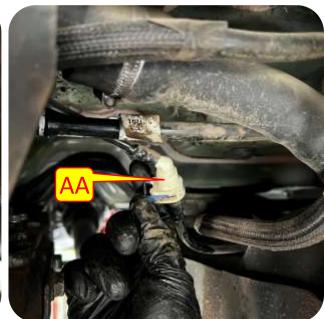


Step 4: Gas Tank Installation

- X. Reinstall the gas tank.
- Y. Reinstall the fuel lines in front of the gas tank.
- Z. Reinstall any plastic "Christmas trees" that connected the fuel line to the gas tank.
- AA. Reconnect filler breather.









Step 4: Gas Tank Installation

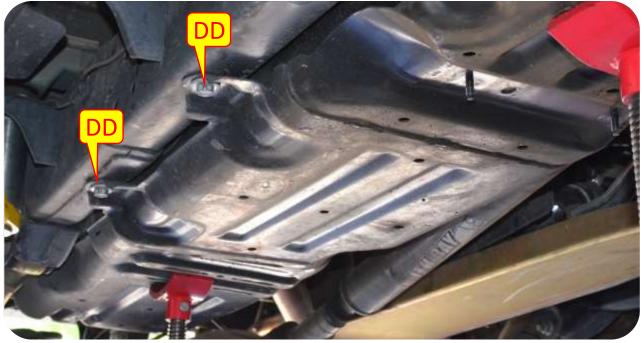
- BB. Reinstall evap canister hoses.
- CC. Reconnect the gas fill neck using a 7mm socket or wench.
- DD. Reinstall all the gas tank bolts with a 18mm socket.









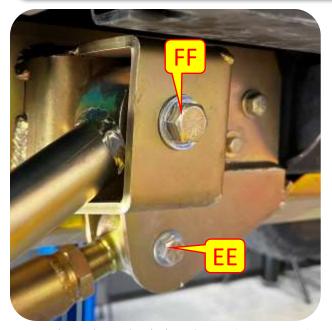




Step 5: Rear Control Arm Installation

Note: Measure the upper rear control arms to 32 1/2" eye to eye and the lower rear control arms to 38 1/4" 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.

- EE. Install the lower control arms orientating it so that the lock is toward the frame, using the provided 9/16" hardware and a 15/16" socket and wrench at the frame and the factory hardware using a 21mm socket and wrench at the axle end.
- FF. Install the upper control arms, orientating it so that the lock nut is toward the axle, using a 15/16" socket and wrench at the frame end and the factory hardware using a 21mm socket and wrench at the axle end.
- GG. Make sure all hardware is fully tightened.







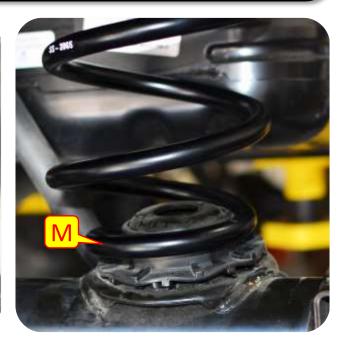


Step 6: Install Rear Coils

- J. If the axle does not "droop" enough to allow the coil to be put in place a coil compressor can be used to compress the coil to allow fitment.
- K. Place the Rear Coil Cup on top of the Rear Dual Rate Coil.
- L. Install rear Dual Rate Coils with the tightly wound coils oriented upward.
- M. Slip the bottom of the coil onto the coil base on the axle.









Step 7: Install MetalCloak Track Bar

N. Install the MetalCloak Track Bar using the stock hardware. Tighten all hardware using a 21MM Socket and Wrench.



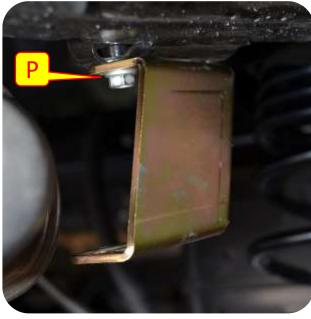




Step 8: Sway Bar Option 1

- O. Using a 15mm Socket remove the sway bar from the vehicle. Save All Hardware
- P. Using a 18mm socket install the 4in drop bracket in the sway bar's stock location using the factory hardware.
- Q. When reinstalling the rear sway bar flip the sway bar so that the driver side becomes the passenger side and the passenger side becomes the driver side.





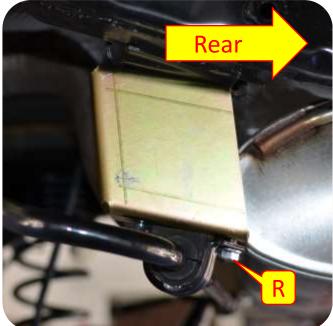




Step 8: Sway Bar Option 1



- R. Using the provided hardware attach the sway bar to the drop bracket and tighten with a 14mm socket and wrench.
- S. Install the sway bar end links to the sway bar.







Step 8: Sway Bar Option 2

- T. Using a 15MM socket remove the sway bar mount hardware.
- U. Install the sway bar spacer and tighten the provided hardware using a 17MM socket.
- V. Install the extended sway bar end links on the sway bar.



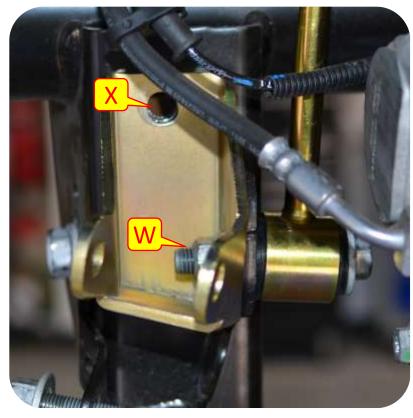






Step 9: Install Rear 6Pak Shocks

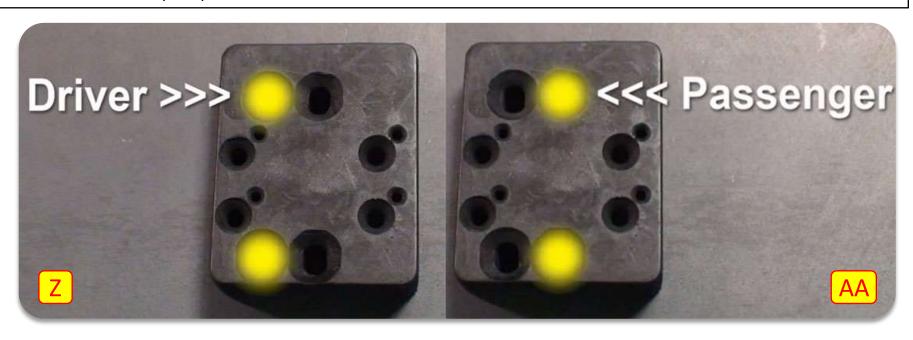
- W. Align the MetalCloak rear shock relocation bracket and install the sway bar end link using a 18mm socket and wrench.
- X. Using a drill and 3/8" drill bit drill out the shock mounts upper hole
- Y. Using a 9/16" socket and wrench install the shock mount upper bolt. You must go from behind and underneath the stock shock mount to reach the hole with the nut and wrench.
- Z. Install the rear shocks.



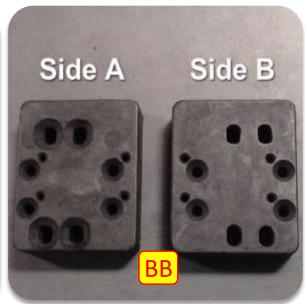




Step 10: Install Rear Bump Stops



- Z. Driver Side Bump Stop Holes.
- AA. Passenger Side Bump Stop Holes.
- BB. Diagram showing the two sides of the Bump Stops.





Step 10: Install Rear Bump Stops

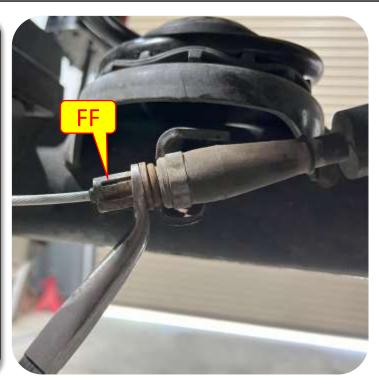
- CC. Install first bump stop puck (Side A) using the correct holes (shown in step A and B) using the 5/16 bolt with the matching nut and washer.
- DD. Install next puck (Side B) using the 1 3/4" woodscrews.
- EE. Continue until desired bump stop height (Side A/Side B/ Side A/Side B).





Step 11: Re-route E Brake

- FF. Disconnect the E brake cables from the brake backing plate.
- GG. Disconnect the E brake cables from the cable bracket.



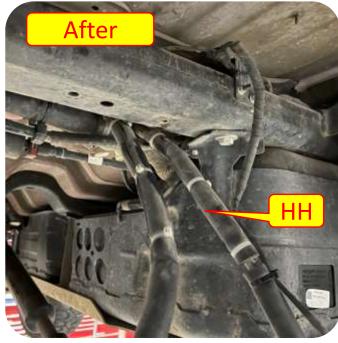




Step 11: Re-route E Brake

- HH. Re-route the E brake cables under the crossmember.
- II. Reconnect the E Brake cable to the cable bracket
- JJ. Reconnect the E Brake cable from the brake backing plate.





Step 12: Finalize

Important Note: After re-installing the rear brake line bracket. Bend the brake line bracket in the rear upwards towards the frame to allow slack for extra droop.

KK. Adjust the caster angle and toe as needed. Once set, tighten all hardware, Re attach all brake line brackets. Finally, tighten the jam nuts on all control arms.





Step 13: Modifying the UnderCloak Gas Tank Skid

The Following Step is ONLY if you have the MetalCloak UnderCloak System that needs to be modified.

To modify your UnderCloak Gas Tank Skid Plate measure 1.5" up from the bend line to the cut out for factory arms. from this point measure forward 19" in parallels to the bend line (dash line) and then up to the edge of the skid at a 135 deg angle. measure forward 14.25" and draw a circle approximately 1.5" diameter this is to clear the hardware on the long arm mount. Using a cutoff wheel cut along the line (green line). These Measurements are starting points you may need to modify your skid slightly to fit properly.

