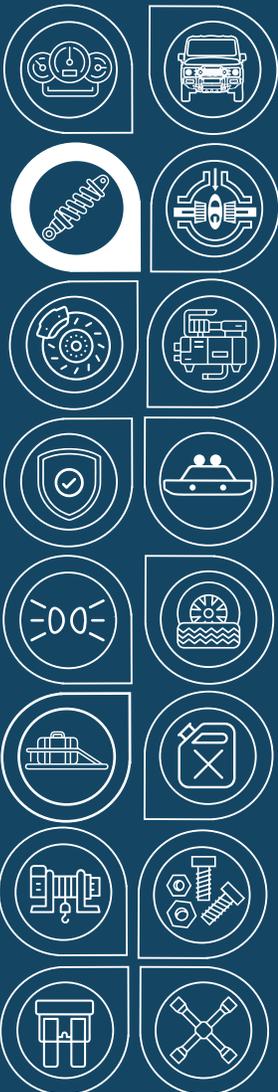




**AGILE
OFFROAD**
SMARTER THAN DIRT



INSTALLATION GUIDE

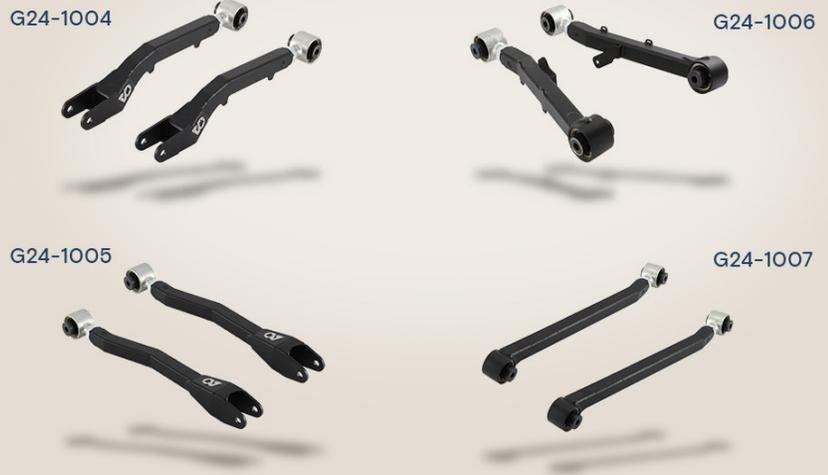
Control Arms for INEOS Grenadier
by Agile Offroad

G24-100X

INSTALLATION GUIDE

STRONGER CONTROL SMOOTHER STEERING

Control Arms for Ineos Grenadier by Agile Offroad



Upgrade your Grenadier with Agile Offroad Control Arms, engineered with 1/4" 4130 Chromoly steel for superior strength and durability. Designed with Rock Krawler Adventure Joints for added articulation and adjustability for proper caster correction, these arms keep your steering centered and confident, even off-road.

Agile Offroad's Control Arms for the INEOS Grenadier are built to outperform factory components. Constructed with 1/4" 4130 Chromoly steel, TIG welded, zinc plated, and powder coated, these arms deliver unmatched durability and corrosion resistance. The adjustable caster correction feature solves the wandering and lack of return-to-center steering common with stock control arms, providing a precise and stable driving experience. Rock Krawler Adventure Joints further enhance articulation, making them the ideal choice for rock crawling and rugged off-road adventures.

SKU

G24-100X

PARTS INCLUDED

G24-1004: FRONT UPPER KIT

- 1 x Upper Right Side Control Arm
- 1 x Upper Left Side Control Arm
- 3 x Cable Ties

G24-1005: FRONT LOWER KIT

- 1 x Lower Right Side Control Arm
- 1 x Lower Left Side Control Arm
- 2 x M14 Hex Bolt Class 10.9
- 2 x M14 Flange Nut Class 10.99
- 4 x Cam Bolt Lock Plate

G24-1006: REAR UPPER KIT

- 1 x Upper Right Side Control Arm
- 1 x Upper Left Side Control Arm
- 6 x Cable Ties
- 2 x M8 Flange Nut
- 1 x M8 Bolt

G24-1007: REAR LOWER KIT

- 1 x Lower Right Side Control Arm
- 1 x Lower Left Side Control Arm
- 2 x M14 Hex Bolt Class 10.9
- 2 x M14 Flange Nut Class 10.99
- 4 x Cam Bolt Lock Plate

G24-1008: COMPLETE KIT

All of the above

TOOL NEEDED

- Panel Clip Removal Tool
- 10mm Socket/Wrench
- 21mm Socket
- 21mm Box Wrench
- 22mm Box Wrench

INSTALLATION TIME

1-3 Hours

NOTE:

In the interest of safety, we strongly encourage you to remove and replace one arm at a time. These instructions are written as such.

INSTALLATION GUIDE



FRONT UPPER CONTROL ARMS (G24-1004)

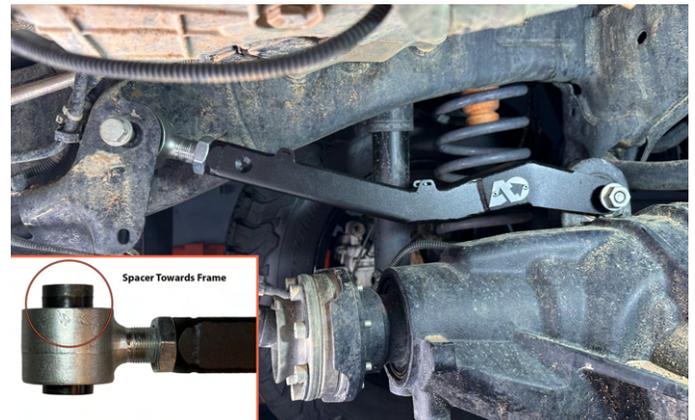
1. Starting with the driver side upper control arm, use a panel clip removal tool to carefully remove the ABS cable from the control arm and rear control arm bracket.



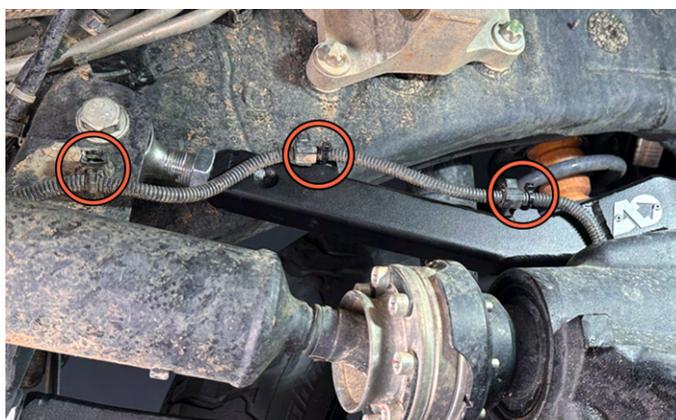
2. Use a 21mm box wrench and a 21mm socket to loosen and remove the upper control arm bolts and nut.



3. Make note of the hardware direction and completely remove the arm.



4. Install the AO Control Arm using the factory hardware. Hand tighten only. **Note: The joint spacer must be installed on the frame side.**



5. Use the supplied cable ties to secure the ABS cable to the control arm. Repeat steps 1-4 on the opposite side. **Fully tighten all hardware only when the vehicle is under its own weight. Torque to 159 ft/lbs.**



FRONT LOWER CONTROL ARMS (G24-1005)

1. To remove the driver side front lower control arm bolt, it is necessary to loosen but not remove the lower shock bolt. Use a 24mm socket to loosen the bolt until the treads are flush with the weld-nut on the inside of the shock mount. Use a 21mm socket and a 22mm box wrench to remove the rear nut and bolt of the lower arm. Use a 21mm box wrench and a 21mm socket to remove the front nut and bolt of the lower arm.

INSTALLATION GUIDE



2. Remove arm.



3. Install the new arm making sure the joint spacer faces outward towards the frame. Use the OE hardware for the front mounting hole. For the rear, use the provided M14 bolt, cam-eliminator plates, and flange nut, as shown. Repeat steps 1-3 on the opposite side. **Fully tighten all hardware only when the vehicle is under its own weight. Torque to 159 ft/lbs.**



REAR UPPER CONTROL ARMS (G24-1006)

1. DRIVE SIDE. Use a 10mm socket/wrench to remove the parking brake cable bracket.



2. Use a panel clip removal tool to remove the corrugated loomed cable from the control arm. Unclip the ABS wire from the control arm.



3. Use a 21mm socket and a 22mm box wrench to remove the rear nut and bolt from the upper arm. Use a 21mm socket to remove the front bolt of the upper arm.



4. The front bolt must be accessed from the outer frame side.

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5. Completely remove the upper arm.



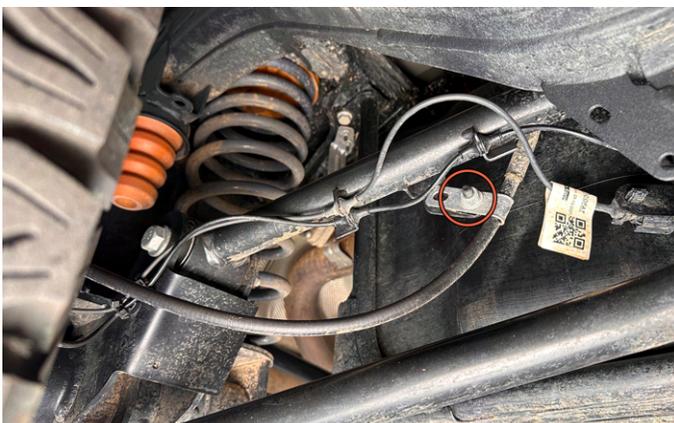
6. Install the AO upper control arm using the factory hardware.



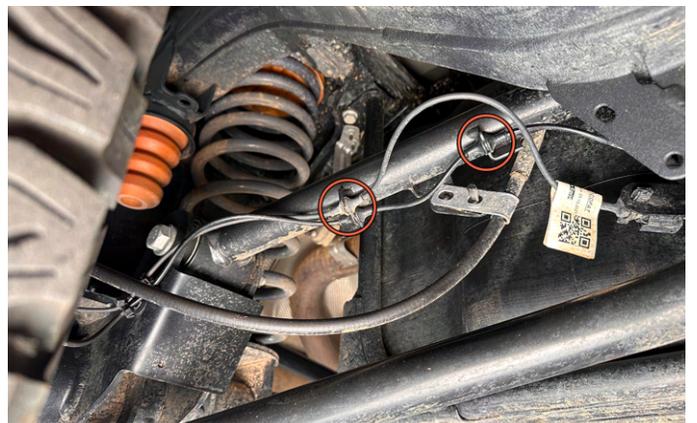
7. Use the supplied 8mm flange nut and factory bolt to attach the parking brake cable to the control arm.



8. Use two of the supplied cable ties to secure the corrugated loomed cable and the ABS cable the control arm.



9. PASSENGER SIDE. Use a 10mm socket/wrench to remove the parking brake cable bracket.



10. Unclip the ABS and the brake wear cables.

INSTALLATION GUIDE



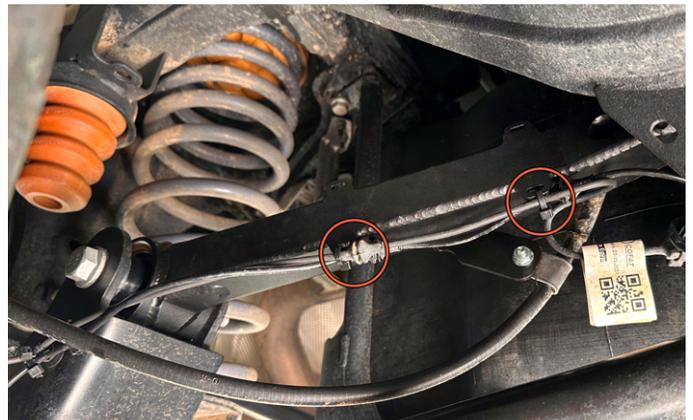
11. Use a 21mm socket and a 22mm box wrench to remove the rear lower control arm bolt.



12. Use a 22mm socket to remove the front lower control arm bolt from the outer frame side.



13. Install the AO control arm using the factory hardware. Use the supplied M8 bolt and M8 flange nut to attach the parking brake cable bracket to the control arm.

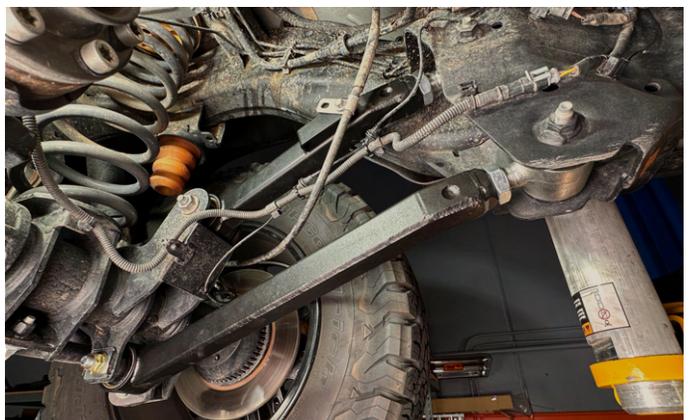


14. Use two of the supplied cable ties to secure the ABS and brake wear cables to the control arm. **Fully tighten all hardware only when the vehicle is under its own weight. Torque to 159 ft/lbs.**



REAR LOWER CONTROL ARMS (G24-1007)

1. Use a 21mm socket and a 22mm box wrench to remove the rear lower control arm bolt. Use a 21mm socket to remove the front lower control arm bolt. Completely remove arm.

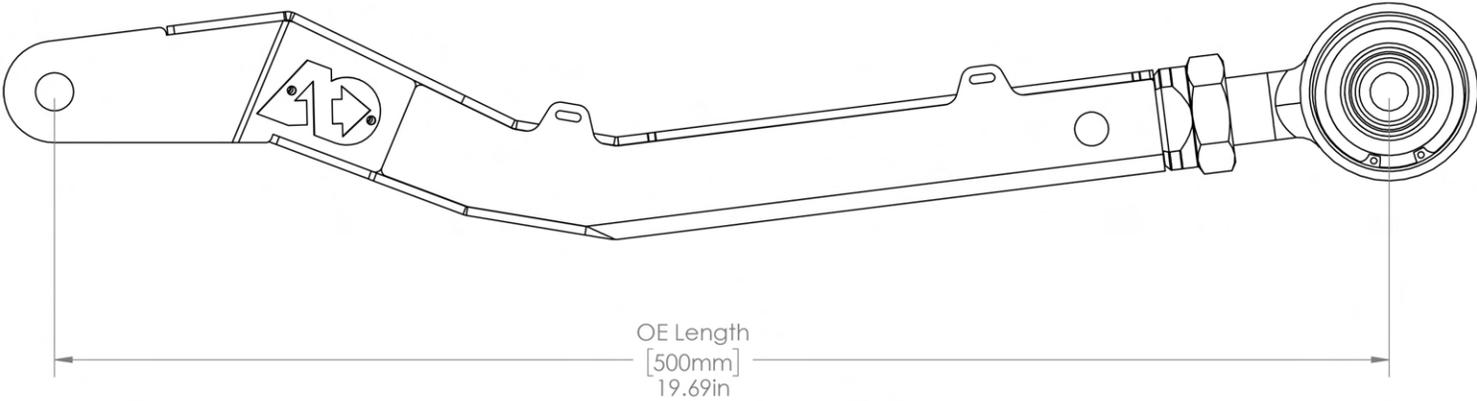


2. Install the AO lower control arm using the factory bolt on the front and the supplied M14 bolt, cam-eliminator plates, and flange nut, as shown. Hand tighten only.



3. Install a cam plate on both sides of the lower control arm bracket as shown. The plates must fit flat in between the tabs. Repeat steps 1-2 on the opposite side. **Fully tighten all hardware only when the vehicle is under its own weight. Torque to 159 ft/lbs.**

AO G24-1004 Front Upper Control Arm



- 1 Degree Caster
[504mm]
19.83in
- + 1 Degree Caster
[496mm]
19.55in
- + 2 Degree Caster
[493mm]
19.4in
- + 3 Degree Caster
[489mm]
19.26

Factory Alignment Specs

Front Axle		Specification		
		Min	Nom	Max
Toe	Left	0'	0'	0'
	Right	0'	0'	0'
	Total	0'	0'	0'
Camber	Left	-40'	0'	+40'
	Right	-40'	0'	+40'
Caster	Left	1° 24'	2° 00'	2° 36'
	Right	1° 24'	2° 00'	2° 36'
Max. Inner Wheel Angle	Left Turn	32° 30'	33° 00'	33° 30'
	Right Turn	32° 30'	33° 00'	33° 30'
Rear Axle		Specification		
Toe	Left	-25'	+0'	+25'
	Right	-25'	+0'	+25'
	Total	-25'	+0'	+25'
Camber	Left	-30'	0'	+30'
	Right	-30'	0'	+30'
Thrust Angle	Total	-12'	0'	+12'



SMARTER THAN DIRT

INEOS
GRENADIER



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Interior



Exterior



Suspension



Air Locker &
Drivetrain



Steering &
Brakes



Air
Compressors



Armor &
Protection



Bumpers



Lighting



Wheels &
Tires



Storage &
Racks



Water &
Fuel Tanks



Winches &
Recovery



Replacement
Parts &
Accessories



Electrical



Tools



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