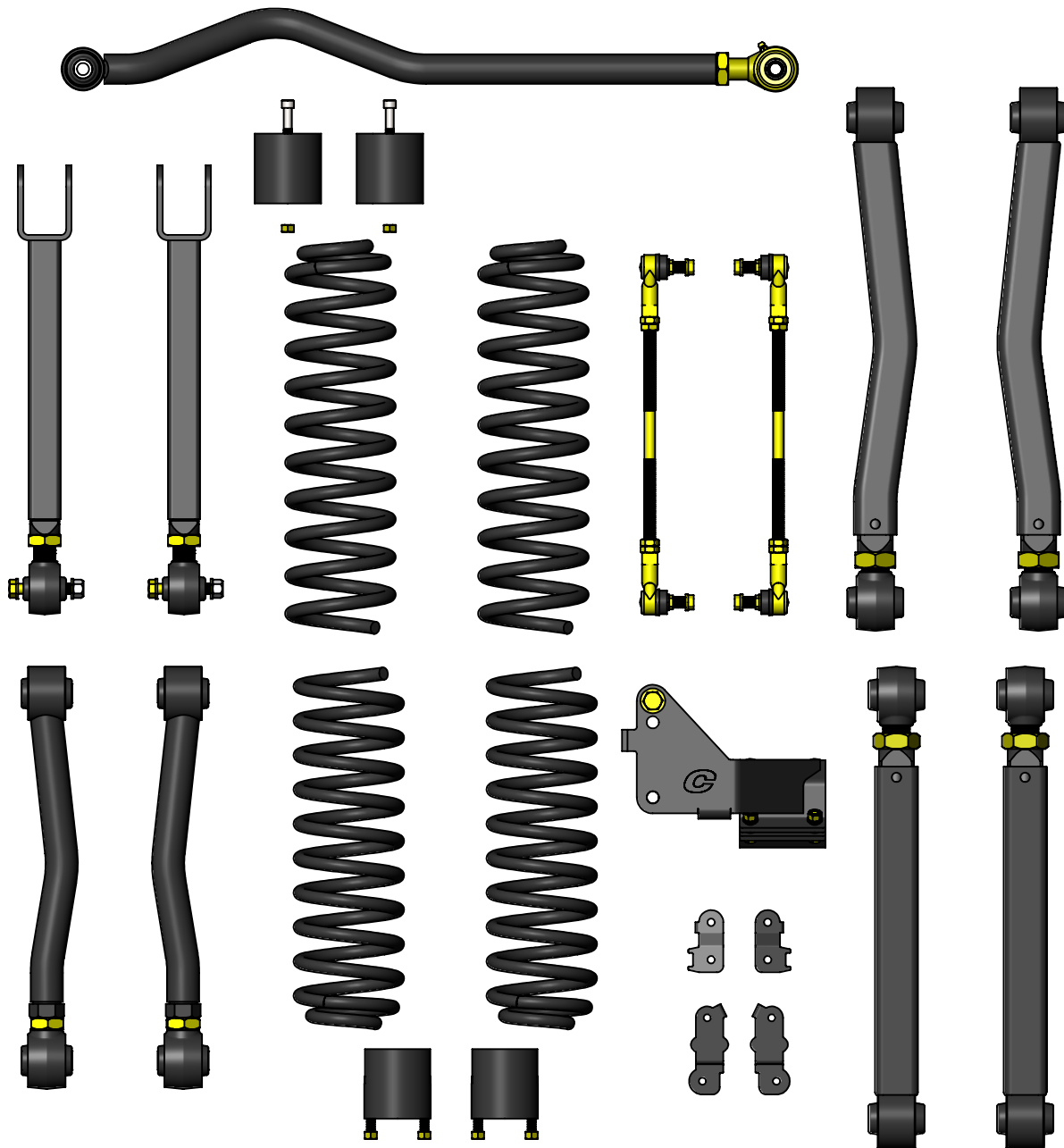


CLAYTON OFF ROAD
COR-3008025, COR-3008030, COR-3008050
JEEP WRANGLER 2.5, 3.5", 4.5" OVERLAND + LIFT KITS (2007-2018, JK)



NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this product. Every vehicle varies slightly and some fabrication may be required. For more information please visit our website.

Recommended starting lengths for track bars and control arms. These lengths can be adjusted as needed for caster angle, drive shaft angles and tire clearance. Please make sure to not exceed the maximum length of the control arms or track bars.

Lift Height > Suspension Component	Stock	2 Door 2.5" Lift	2 Door 3.5" Lift	2 Door 4.5" Lift	4 Door 2.5" Lift	4 Door 3.5" Lift	4 Door 4.5" Lift
Front Lower Control Arms	22.621	22.881	23.055	23.269	22.881	23.055	23.269
Front Upper Control Arms	18.773	18.795	18.908	19.074	18.795	18.908	19.074
Rear Lower Control Arms	19.764	20.000	20.000	20.000	20.000	20.000	20.000
Rear Upper Control Arms	17.421	18.125	18.125	18.125	17.750	17.750	17.750
Front Track Bar	32.383	32.647	32.796	32.974	32.647	32.796	32.974
Front Track Bar with Bracket	NA	33.048	33.085	33.152	33.048	33.085	33.152
Rear Track Bar with Bracket	40.090	40.023	40.119	40.119	40.023	40.119	40.119

Refer to individual product part number instructions.

Step 1: Position front of vehicle on jack stands or complete vehicle on lift.

Step 2: Support front axle.

Step 3: Remove front tires.

Step 4: Loosen front track bar bolts.

Step 5: Remove heat shields and loosen upper and lower control arm bolts.

Step 6: Loosen front upper and lower control arm bolts.

Step 7: Remove front sway bar links.

Step 8: Remove front shocks.

Step 9: Remove brake line clips at frame and axle on both sides.

Step 10: Unclip and disconnect all wires going to the front axle.

Step 11: Lower front axle.

Step 12: Remove front springs.

Step 13: Remove front upper and lower control arms on one side.

Step 14: Install front lower control arm part number COR-1708100 with curve facing in for tire clearance.

Step 15: Install front upper control arm part number COR-1708101

Step 16: Repeat steps 13 and 15 on other side.

Step 17: Remove front track bar.

Step 18: Install front track bar part number COR-4508100.

Step 19: Install front bump stops part number COR-1408100.

Step 20: Install front springs part number COR-1508250, COR-1508350, COR-1508450 depending on lift size.

Step 21: Install front shocks.

Step 22: Remove rear sway bar links.

Step 23: Install rear sway bar links in the front of the vehicle.

Step 24: Install brake line extensions and brake line clips at axle.

Step 25: Clip and connect all wires going to the front axle.

Step 26: Install front tires.

Step 27: Position rear of vehicle on jack stands or complete vehicle on lift.

Step 28: Support rear axle.

Step 29: Remove rear tires.

Step 30: Loosen rear track bar bolts.

Step 31: Loosen rear upper and lower control arm bolts.

Step 32: Remove brake line clips at frame on both sides.

Step 33: Unhook e-brake cables from bracket on body.

Step 34: Unclip and disconnect all wires going to the rear axle.

Step 35: Remove rear shocks.

Refer to individual product part number instructions.

Step 36: Lower rear axle.

Step 37: Remove rear springs.

Step 38: Remove rear upper and lower control arms on one side.

Step 39: Install rear lower control arm part number COR-1709102 .

Step 40: Install rear upper control arm part number COR-1709103.

Step 41: Repeat steps 38 and 40 on other side.

Step 42: Remove rear track bar.

Step 43: Install rear track bar part number COR-4508110.

Step 44: Install rear springs part number COR-1508251, COR-1508351, COR-1508451 depending on lift size.

Step 45: Install rear shocks.

Step 46: Install rear sway bar links part number COR-5109110.

Step 47: Install brake line extentions.

Step 48: Clip and connect all wires going to the rear axle.

Step 49: Install rear tires.

Step 50: With vehicle sitting at ride height center both front and rear axles under the vehicle by adjusting the front and rear track bars.

Step 51: In the next 2 steps it is very important to set the caster and pinion angle with a jack with the bolts at one end removed then adjust the length of the upper control arms so they are loaded up equally when the jack is removed.

Step 52: Adjust length of front upper arms to have a caster angle of 4.0 degrees. This angle should be within plus or minus 1.00 degrees.

Step 53: Adjust rear pinion angle to keep lower spring perches aligned with upper spring perches. On 2 door models it will be necessary to roll the pinion up to avoid the rear drive shaft from binding on full droop.

Step 54: Tighten all track bar and control arm bolts.

Step 55: Tighten all track bar and control arm jam nuts.

Step 56: Install rear bump stops part number COR-1408200.

**Clayton Off Road
COR-1708100
Jeep Wrangler Overland + Front Lower Control Arms (2007-2018, JK)**



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Refer to pictures below.

Step 1: Remove old control arm on one side.

Step 2: Position axle.

Step 3: Measure length from axle side mount to frame side mount.

Step 4: Adjust control arm to length and run jam nut up to control arm tube insert.

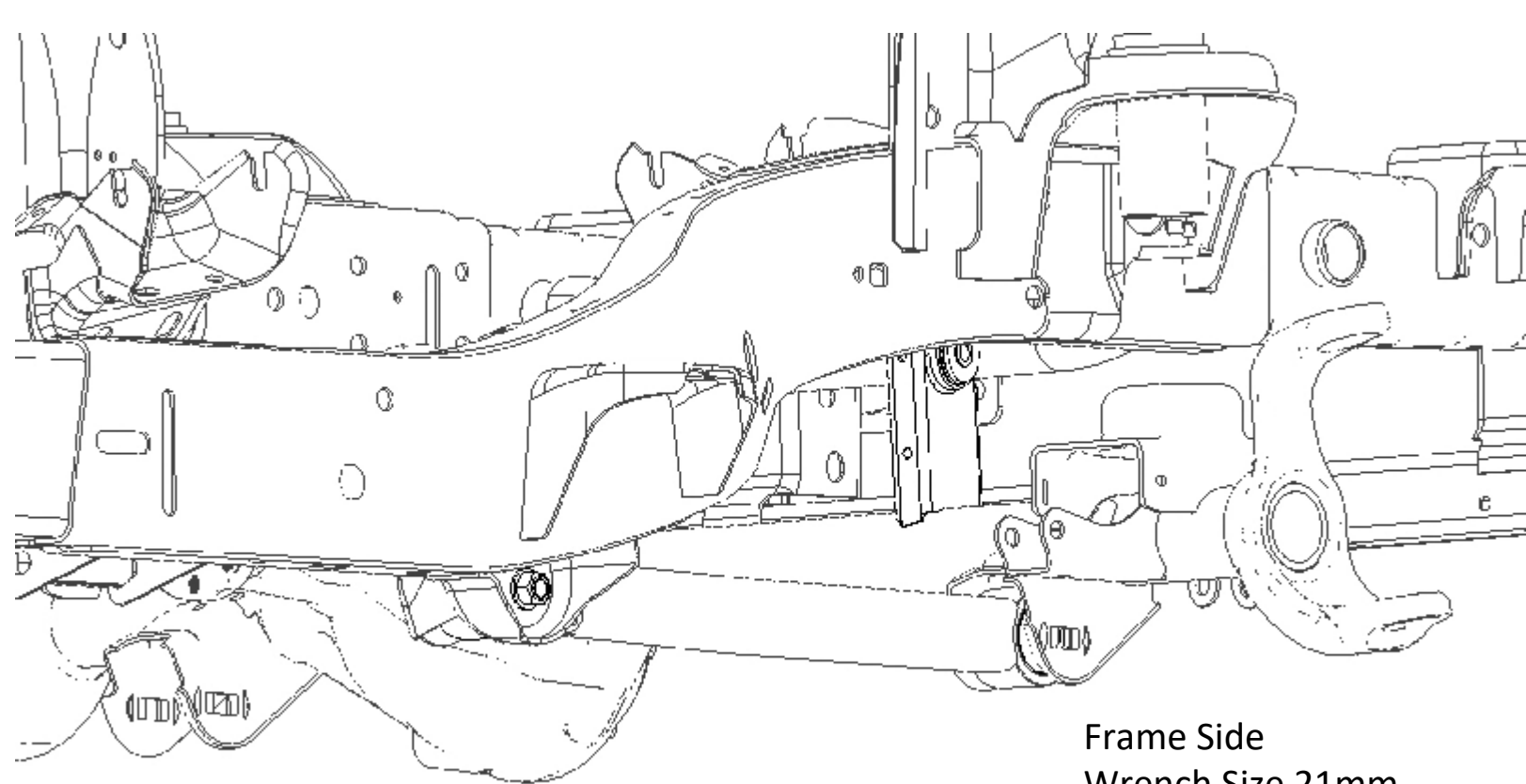
Step 5: Install new control arm with adjustment end on frame.

Step 6: Install control arm bolts and nuts.

Step 7: Torques both bolts to 90 ft-lb.

Step 8: Tighten jam nut using a 46mm or 1-13/16" wrench.

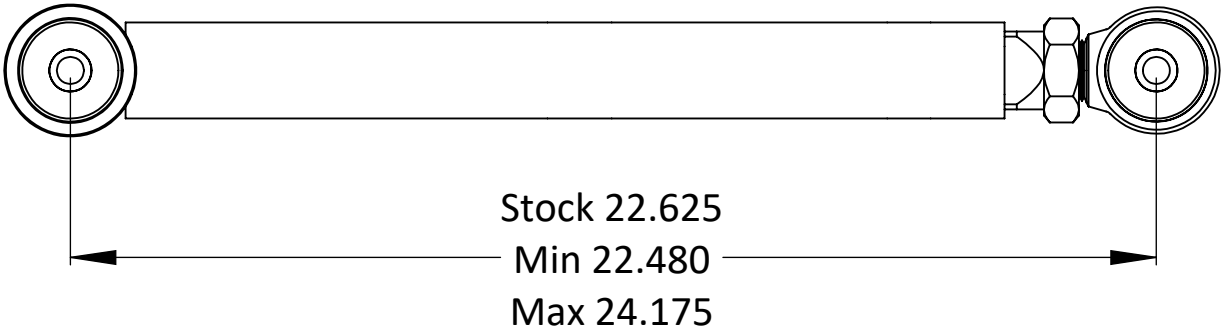
Step 9: Repeat steps 1 to 8 on other side.



Axle Side
Wrench Size 21mm
Torque 90 ft-lb

Frame Side
Wrench Size 21mm
Torque 90 ft-lb

Refer to drawing below for minimum and maximum lengths.



**Clayton Off Road
COR-1708101
Jeep Wrangler Overland + Front Upper Control Arms (2007-2018, JK)**



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Refer to pictures below.

Step 1: Support axle from rotating, a floor or bottle jack works well.

Step 2: Remove old control arms.

Step 3: Set caster to 4.5 to 5.5 degrees by adjusting the height of the jack.

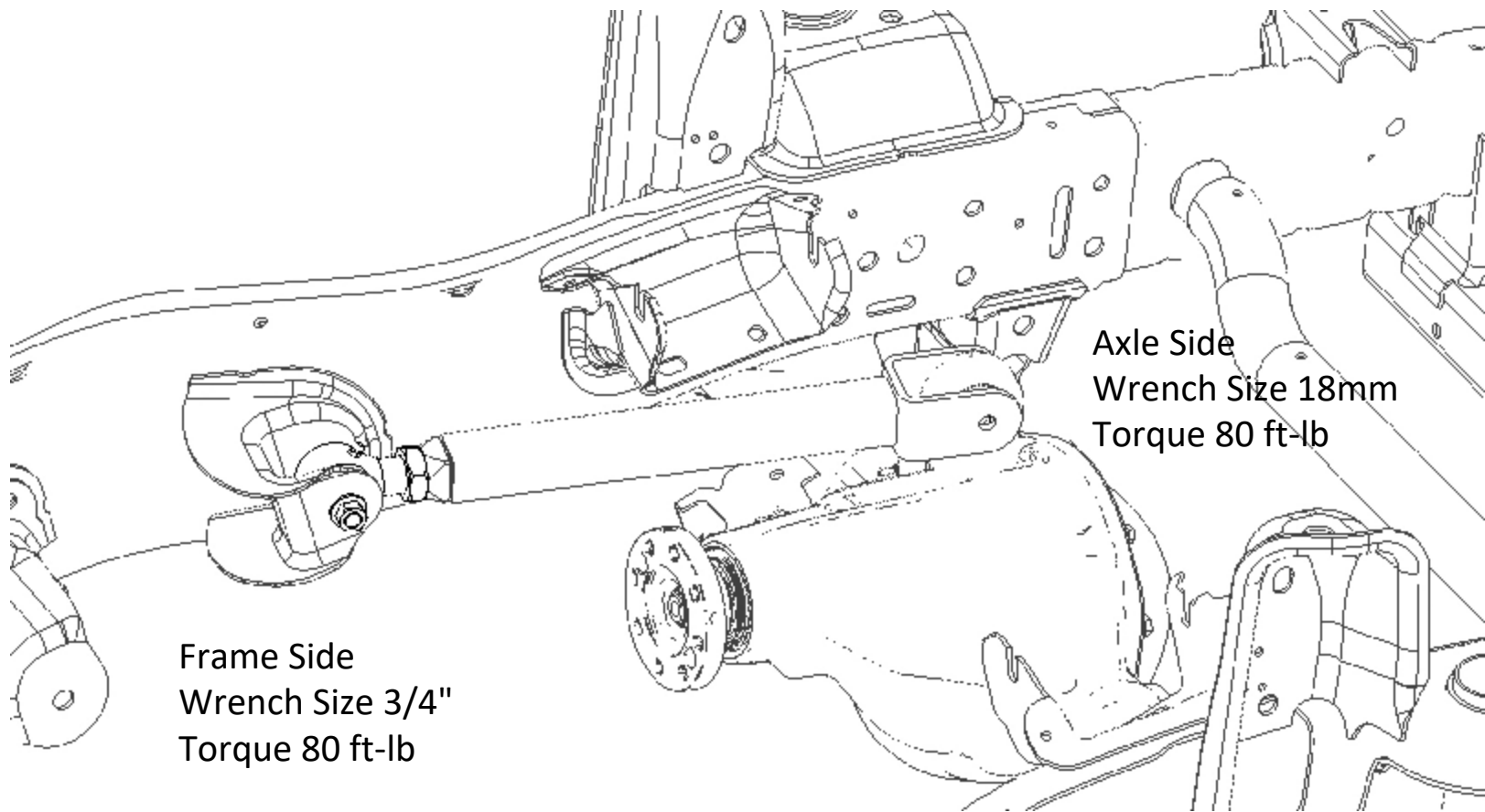
Step 4: Install arms at frame side.

Step 5: Adjust control arm to length so that bolts can easily be installed at axle end.

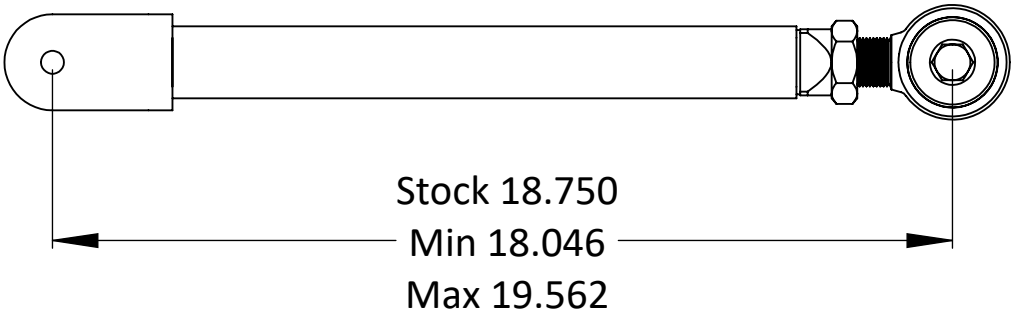
Step 6: Remove jack, and check caster.

Step 7: Torque all bolts to 80 ft-lb.

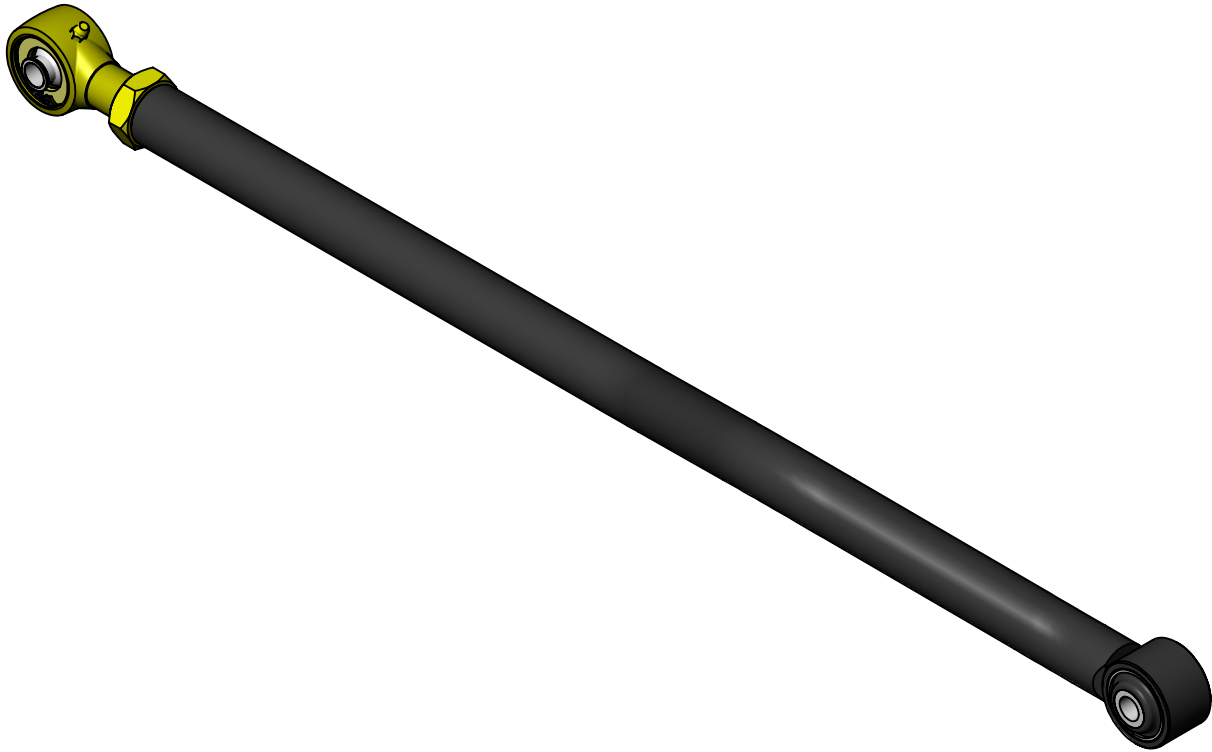
Step 8: Tighten jam nut using a 1-7/16" wrench.



Refer to drawing below for minimum and maximum lengths.



**Clayton Off Road
COR-4508100
Jeep Wrangler Adjustable Front Track Bar (2007-2018, JL)**



NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this product. Every vehicle varies slightly and some fabrication may be required. For more information please visit our website.

Refer to pictures below.

Step 1: Remove old track bar.

Step 2: Center frame on axle.

Step 3: Measure length from axle side mount to frame side mount.

Step 4: Adjust track bar to length and run jam nut up to track bar tube.

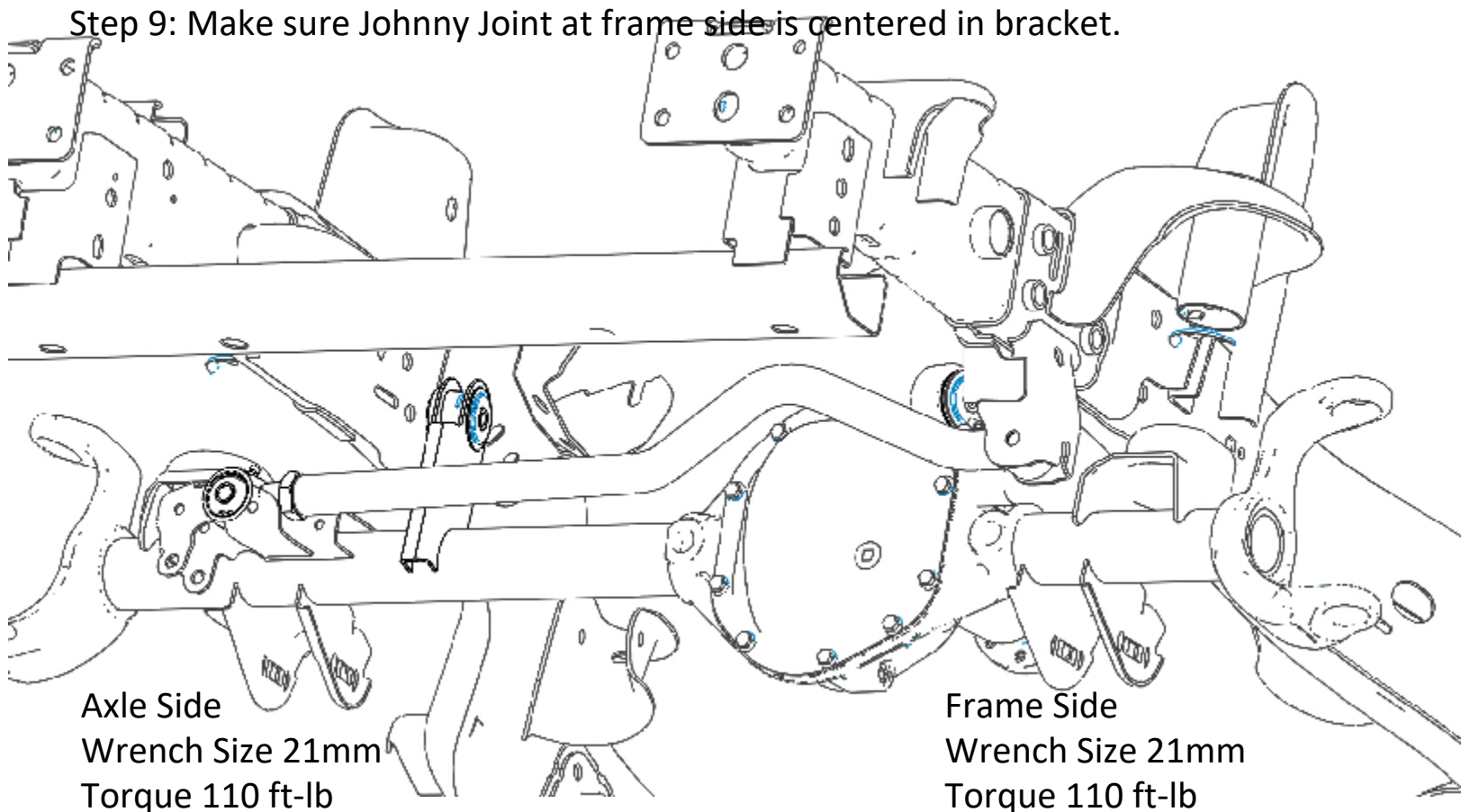
Step 5: Install new track bar with adjustment end on axle.

Step 6: Install track bar bolts and nuts.

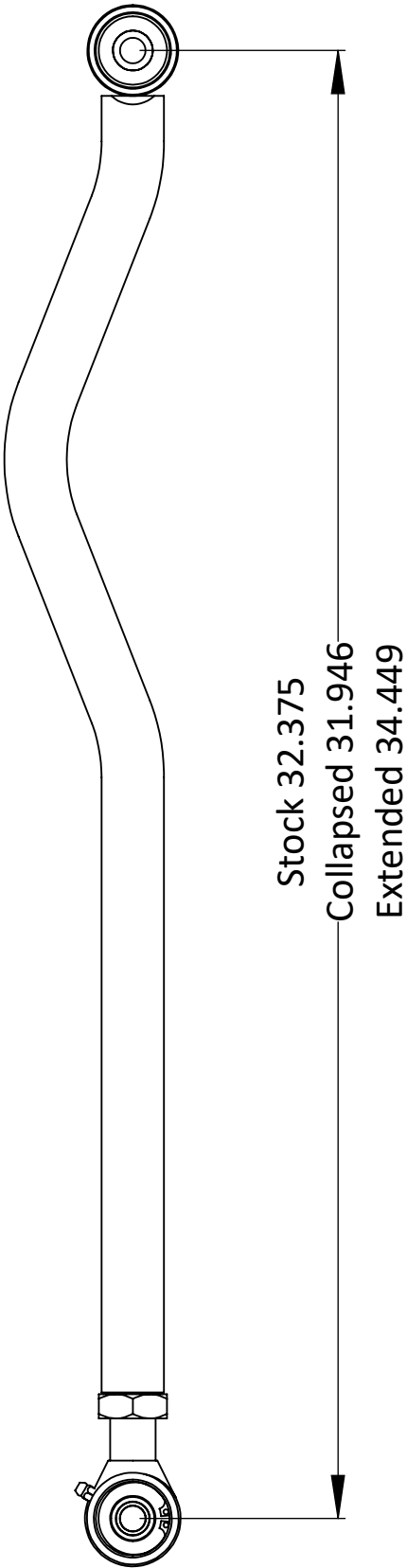
Step 7: Torques both bolts to 110 ft-lb.

Step 8: Tighten jam nut using a 1-7/16" wrench.

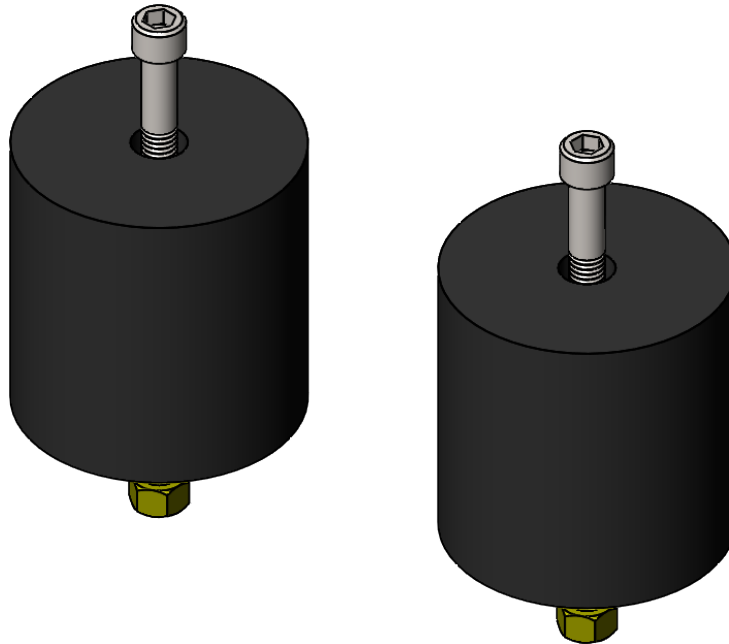
Step 9: Make sure Johnny Joint at frame side is centered in bracket.



Refer to drawing below for minimum and maximum lengths.



**Clayton Off Road
COR-1408100
Jeep Wrangler Front Bump Stops (2007 & Up, JK/JL)**



NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this product. Every vehicle varies slightly and some fabrication may be required. For more information please visit our website.

Refer to picture below.

Step 1: Remove spring.

Step 2: Center bump stop on lower coil bucket.

Step 3: Mark hole location on lower coil bucket.

Step 4: Drill $13/32$ " hole in lower coil bucket.

Step 5: Insert bump stop into spring and install spring.

Step 6: Install nut and tighten bolt.



**Clayton Off Road
COR-1709102
Jeep Wrangler Overland + Rear Lower Control Arms (2018 & Up, JK/JL)**



NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this product. Every vehicle varies slightly and some fabrication may be required. For more information please visit our website.

Refer to pictures below.

Step 1: Remove old control arm on one side.

Step 2: Position axle.

Step 3: Measure length from axle side mount to frame side mount.

Step 4: Adjust control arm to length and run jam nut up to control arm tube insert.

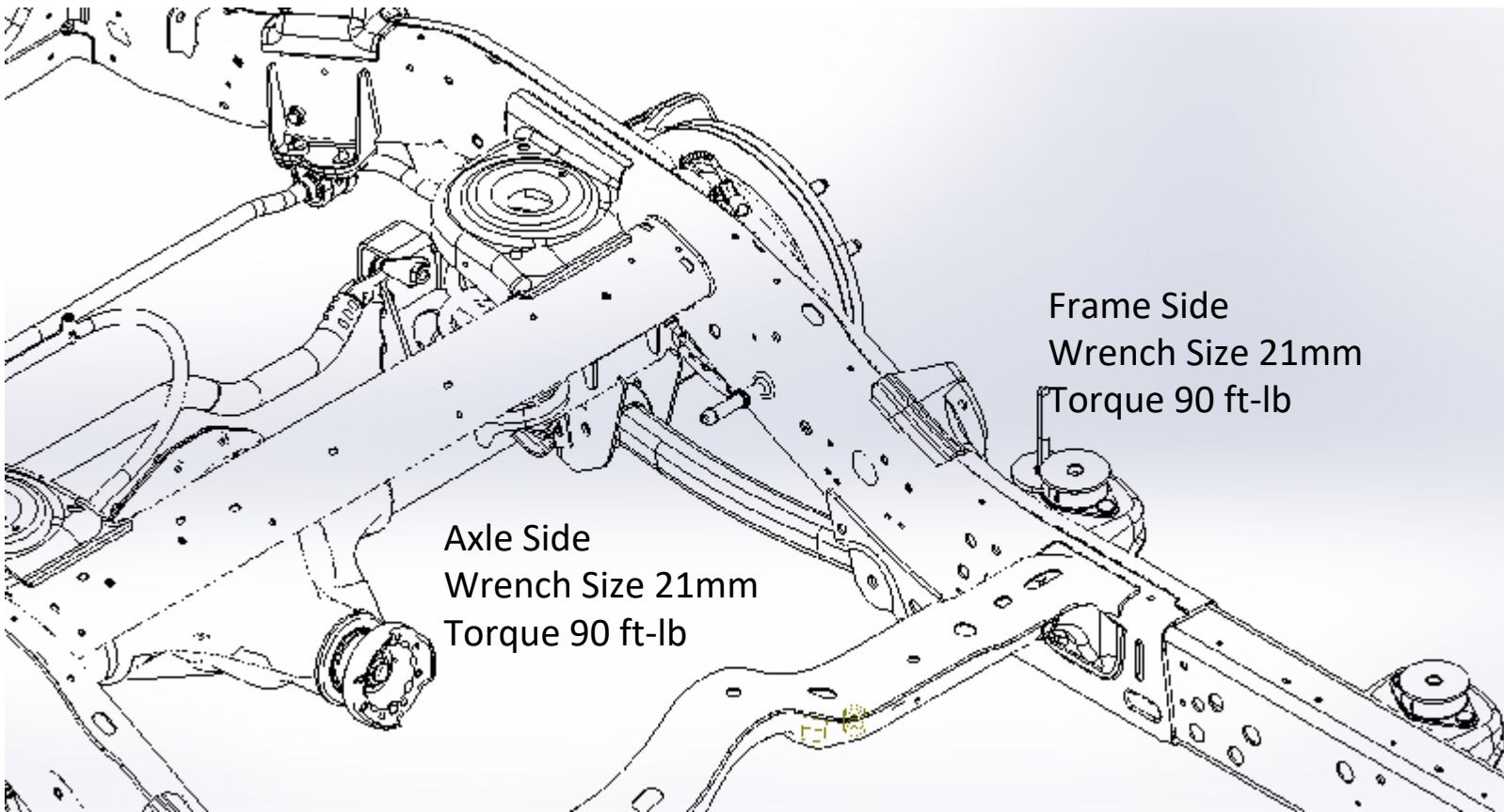
Step 5: Install new control arm with adjustment end on frame.

Step 6: Install control arm bolts and nuts.

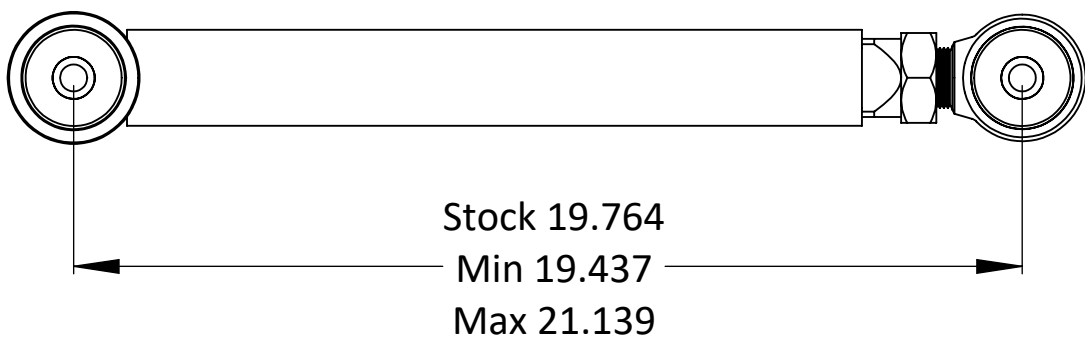
Step 7: Torques both bolts to 90 ft-lb.

Step 8: Tighten jam nut using a 46mm or 1-13/16" wrench.

Step 9: Repeat steps 1 to 9 on other side.



Refer to drawing below for minimum and maximum lengths.



**Clayton Off Road
COR-1709103
Jeep Wrangler Overland + Rear Upper Control Arms (2007 & Up, JK/JL)**



NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this product. Every vehicle varies slightly and some fabrication may be required. For more information please visit our website.

Refer to pictures below.

Step 1: Support axle from rotating, a floor or bottle jack works well.

Step 2: Remove old control arms.

Step 3: Set pinion angle desired pinion angle by adjusting the height of the jack.

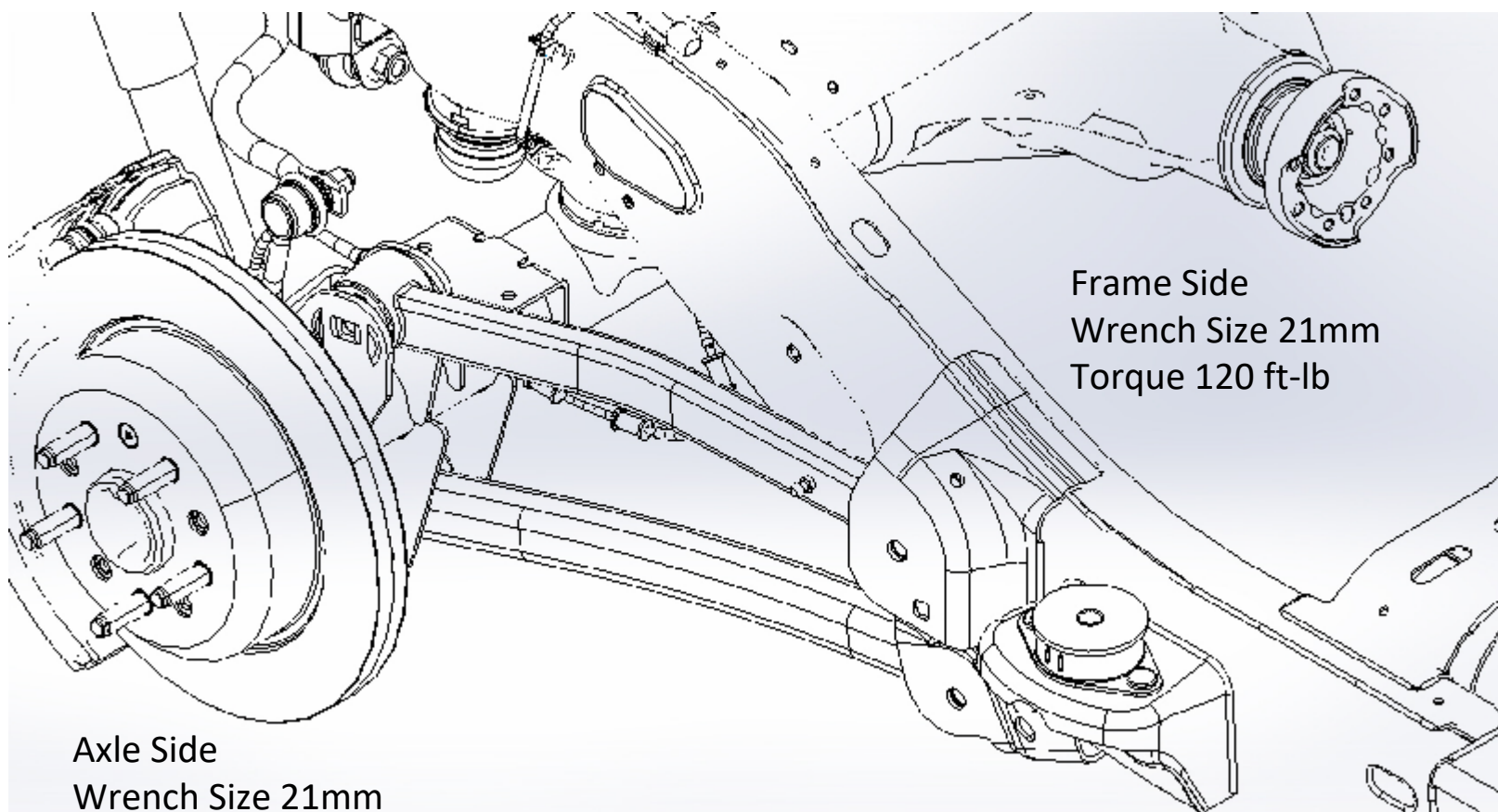
Step 4: Install arms at frame side, arm should bow towards frame & adjuster at axle end.

Step 5: Adjust control arm to length so that bolts can easily be installed at axle end.

Step 6: Remove jack, and pinion angle.

Step 7: Torque all bolts to 95 ft-lb at axle end and 120 ft-lb at frame end.

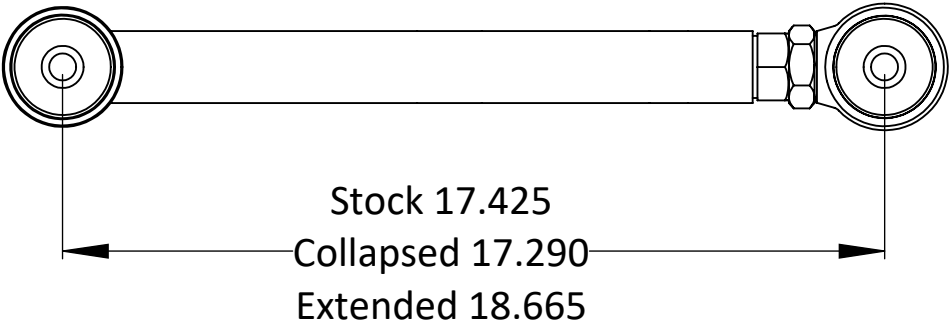
Step 8: Tighten jam nut using a 1-7/16" wrench.



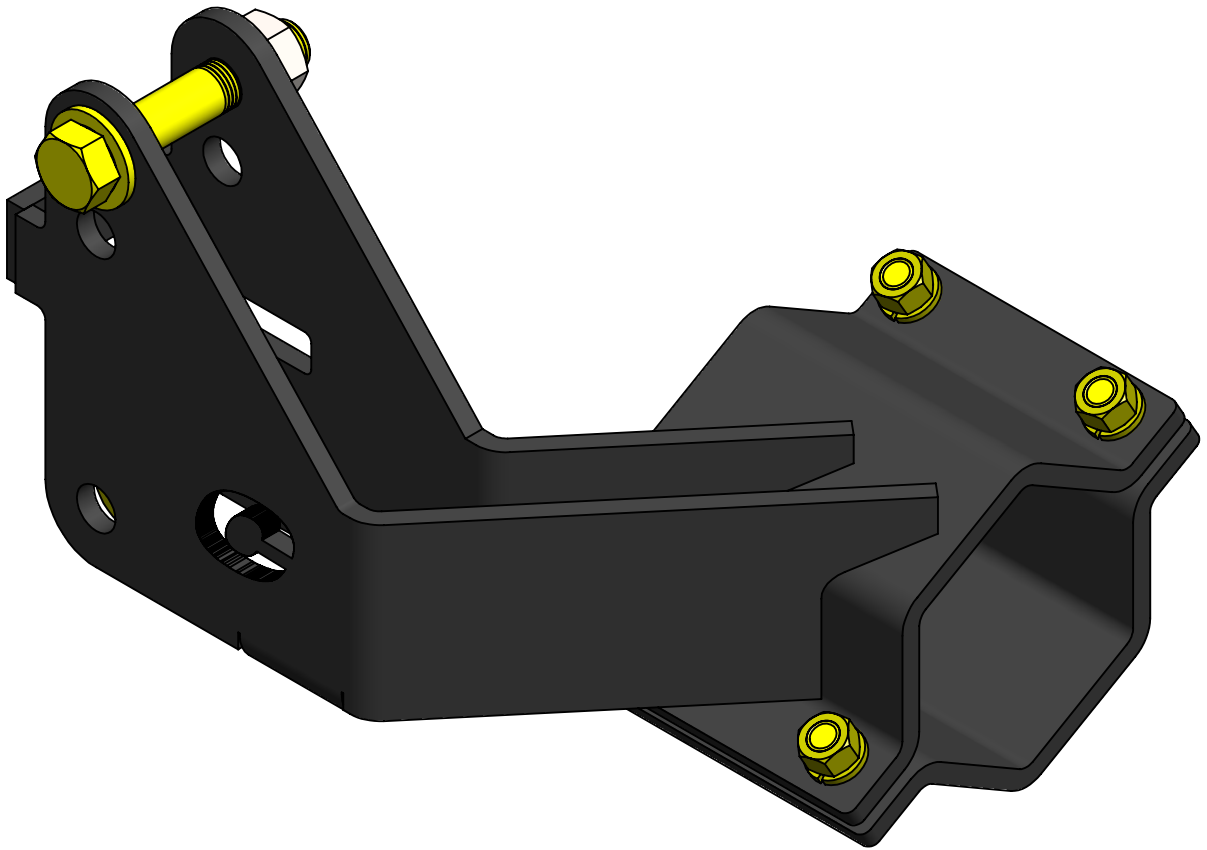
Axle Side
Wrench Size 21mm
Torque 95 ft-lb

Frame Side
Wrench Size 21mm
Torque 120 ft-lb

Refer to drawing below for minimum and maximum lengths.



Clayton Off Road
COR-4508200
Jeep Wrangler Rear Track Bar Relocation Bracket (2007-2018, JK)



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Refer to pictures below.

Step 1: Remove track bar bolt at axle end.

Step 2: Loosen track bar bolt at frame end.

Step 3: Position track bar bracket on axle.

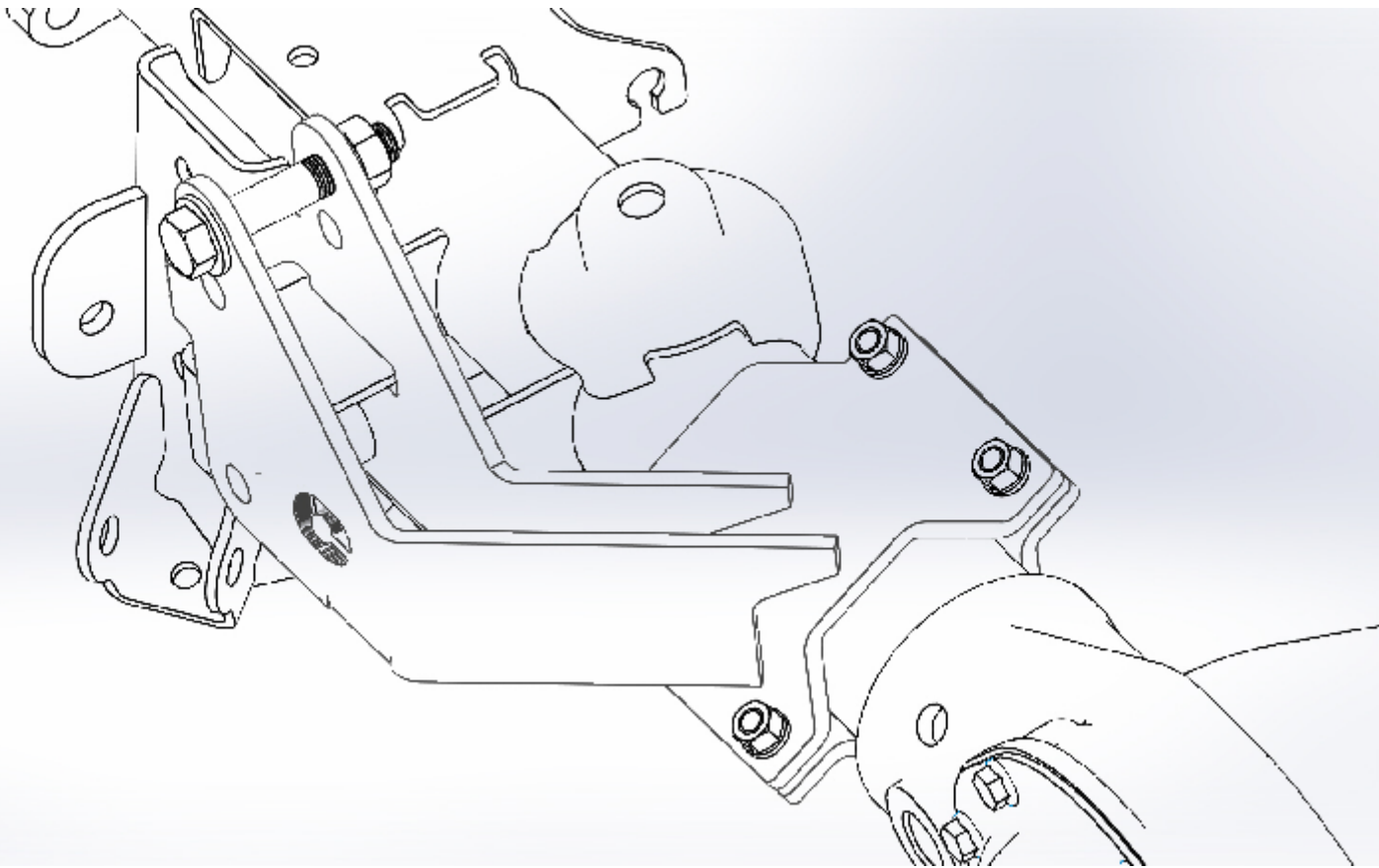
Step 4: Install spacer and old track bar bolt through track bar bracket on axle.

Step 5: Install back half off track bar bracket clamp using 3/8" hardware as shown.

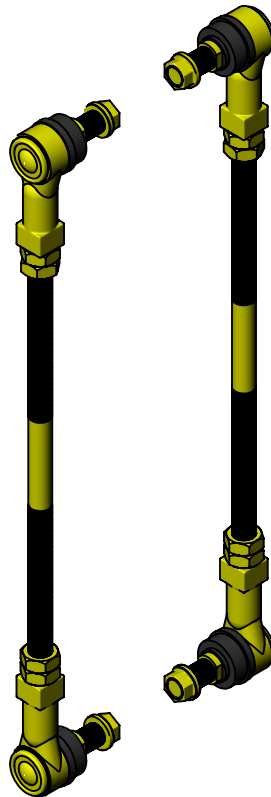
Step 6: Torque 3/8" bolts to 60 ft-lb.

Step 8: Install track bar at axle end.

Step 9: Torque all track bar bolts to 110 ft-lb.



**Clayton Off Road
COR-5109100
Jeep Wrangler Adjustable Rear Sway Bar End Links (2007 & Up, JLK/JL)**



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Refer to pictures below.

Step 1: Remove old sway bar end links.

Step 2: Drill hole in sway bar to 1/2" diameter.

Step 3: Make sure vehicle is at ride height.

Step 4: Set sway bar at a 3 degree downward angle.

Step 5: Measure the distance from the upper and lower mounting holes.

Step 6: Use the formula below to calculate rod length.

Step 7: Cut rod to length.

Step 8: Install two jam nuts on each end of rod.

Step 9: It may be necessary to lock the 2 jam nuts against each other to thread rod end on.

Step 11: Install sway bar links with the studs facing in.

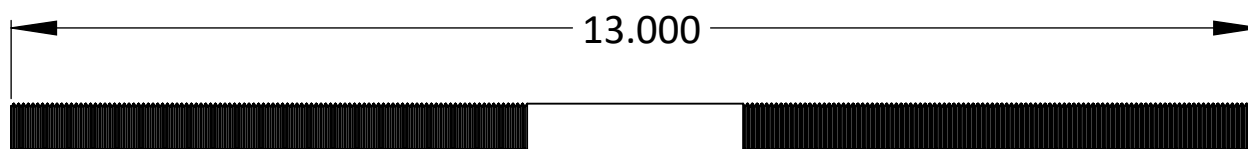
Step 12: Make sure all rod ends are centered.

Step 13: Torque all nuts, bolts and jam nuts to 60 ft-lb.

Step 14: Cycle the suspension through its full travel, check for binding and adjust rod length if needed.

Step 15: Do not exceed maximum length

Step 16: Make sure to keep at least 3/4" of thread engagement with rod end.



Sway bar link rod length calculation

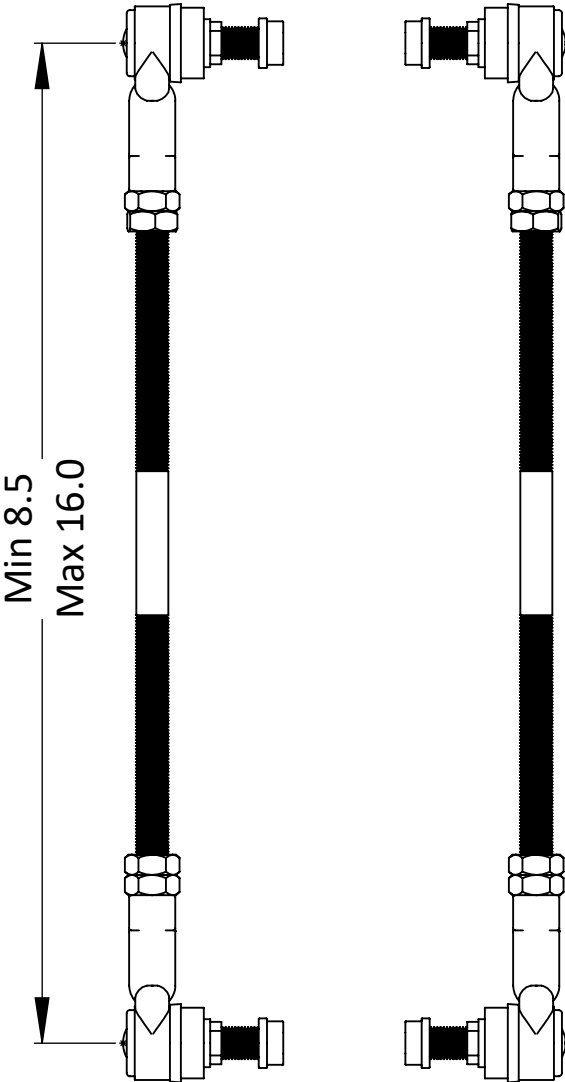
Take the center distance and subtract 2.625" from it, this is the rod length.

Subtract the rod length from 13.000" and divide it by 2.

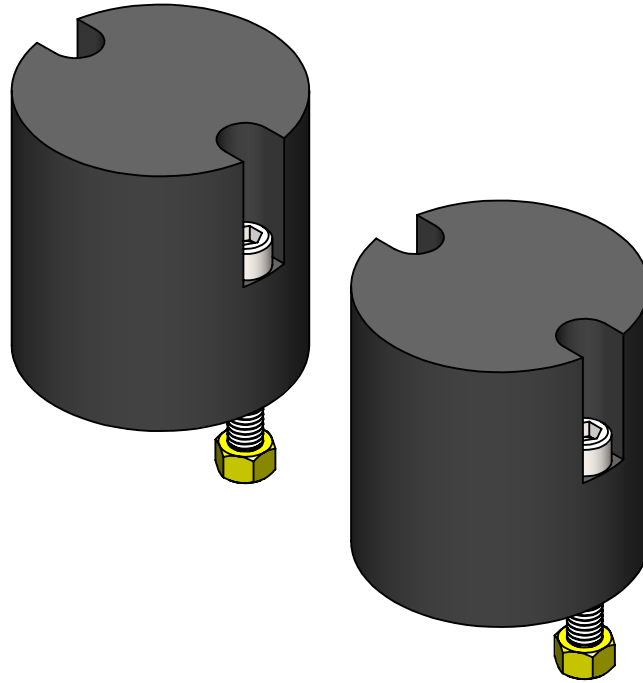
This is the length to cut from each end of the rod.

Another option is to measure the stock sway bar link and add the amount of lift you are using to this dimension, then use the calculation above.

Refer to drawing below for minimum and maximum lengths.



**Clayton Off Road
COR-1408200
Jeep Wrangler Front Bump Stops (2007-2018, JK)**



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Refer to picture below.

Step 1: Place bump stop on plate.

Step 2: Install two socket head cap screws.

Step 3: Install 3/8" nuts.

Step 4: Tighten nuts and bolts till the UHMW compresses slightly.

