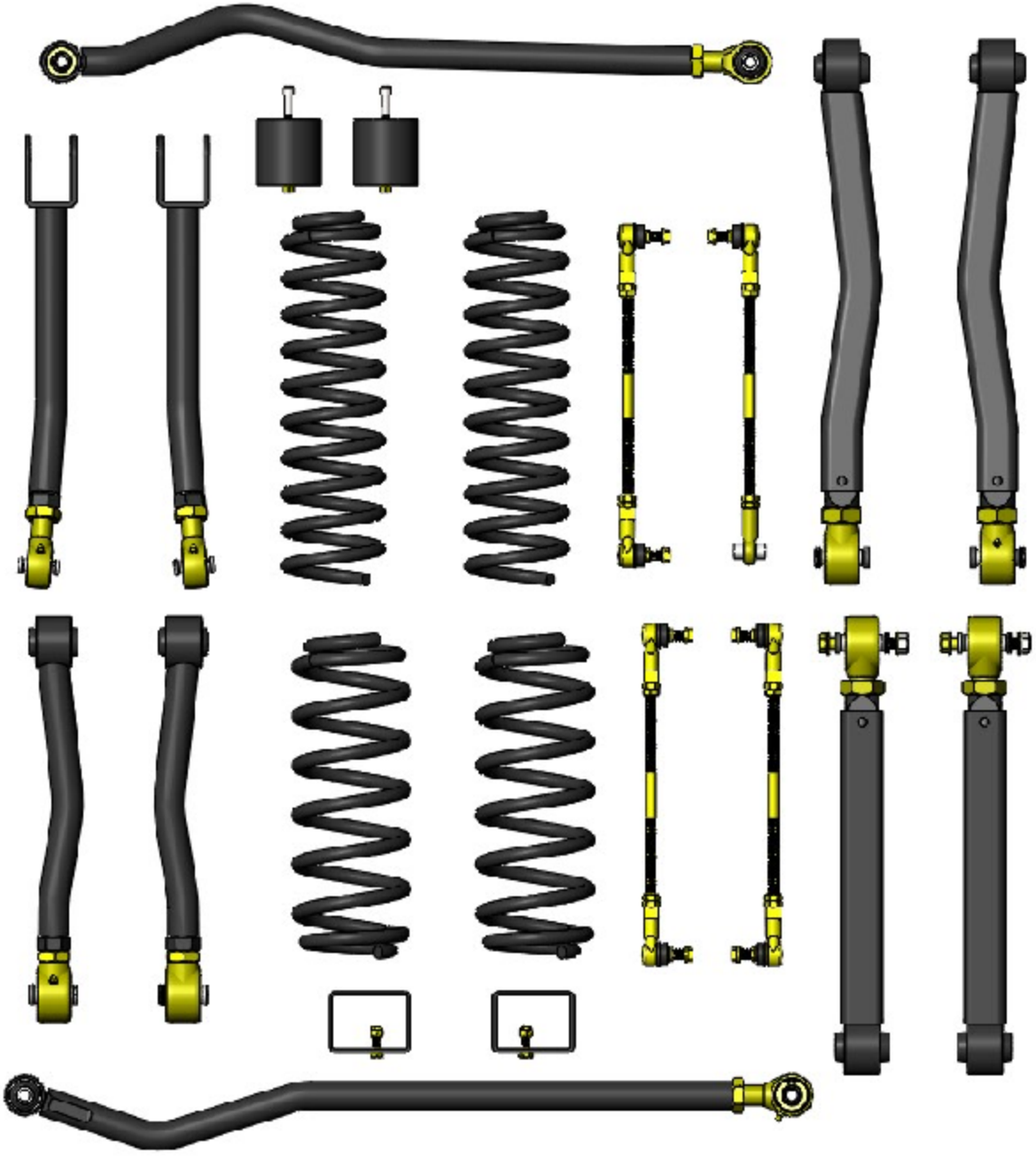
CLAYTON OFF ROAD
COR-2909025
JEEP WRANGLER 2.5" PREMIUM LIFT KIT (2018 & UP, JL)



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.

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	2 DR 2.5	4 DR 2.5	2 DR 3.5	4 DR 3.5	2 DR 4.5	4DR 4.5
Front Track Bar		34.125				
Front Upper Arms		20.500				
Front Lower Arms		24.250				
Rear Track Bar		37.750				
Rear Upper Arms		17.500				
Rear Lower Arms		20.000				

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 two brake line clip bolts 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-1809100 with curve facing in for tire clearance.
Step 15: Install front upper control arm part number COR-1809101 with curve away from the frame.
Step 16: Repeat steps 13 and 14 on other side.
Step 17:Remove front track bar.
Step 18: Install front track bar part number COR-4509100.
Step 19: Install front bump stops part number COR-1408100.
Step 20: Install front springs part number COR-1508250.
Step 21: Install front shocks.
Step 22: Install front sway bar links part number COR-5109100.
Step 23: Install two brake line clip bolts on both sides.
Step 24: Clip and connect all wires going to the front axle.
Step 25: Install front tires.
Step 26: Position rear of vehicle on jack stands or complete vehicle on lift.
Step 27: Support rear axle.
Step 28: Remove rear tires.
Step 29: Loosen rear track bar bolts.
Step 30: Loosen front upper and lower control arm bolts.
Step 31: Remove brake line clip bolts on both sides and unbolt parking brake cables.
Step 32: Unclip and disconnect all wires going to the rear axle.
Step 33: Remove rear sway bar links.
Step 34: Remove rear shocks.
Step 35: Lower rear axle.
Step 36: Remove rear springs.

Refer to individual product part number instructions.

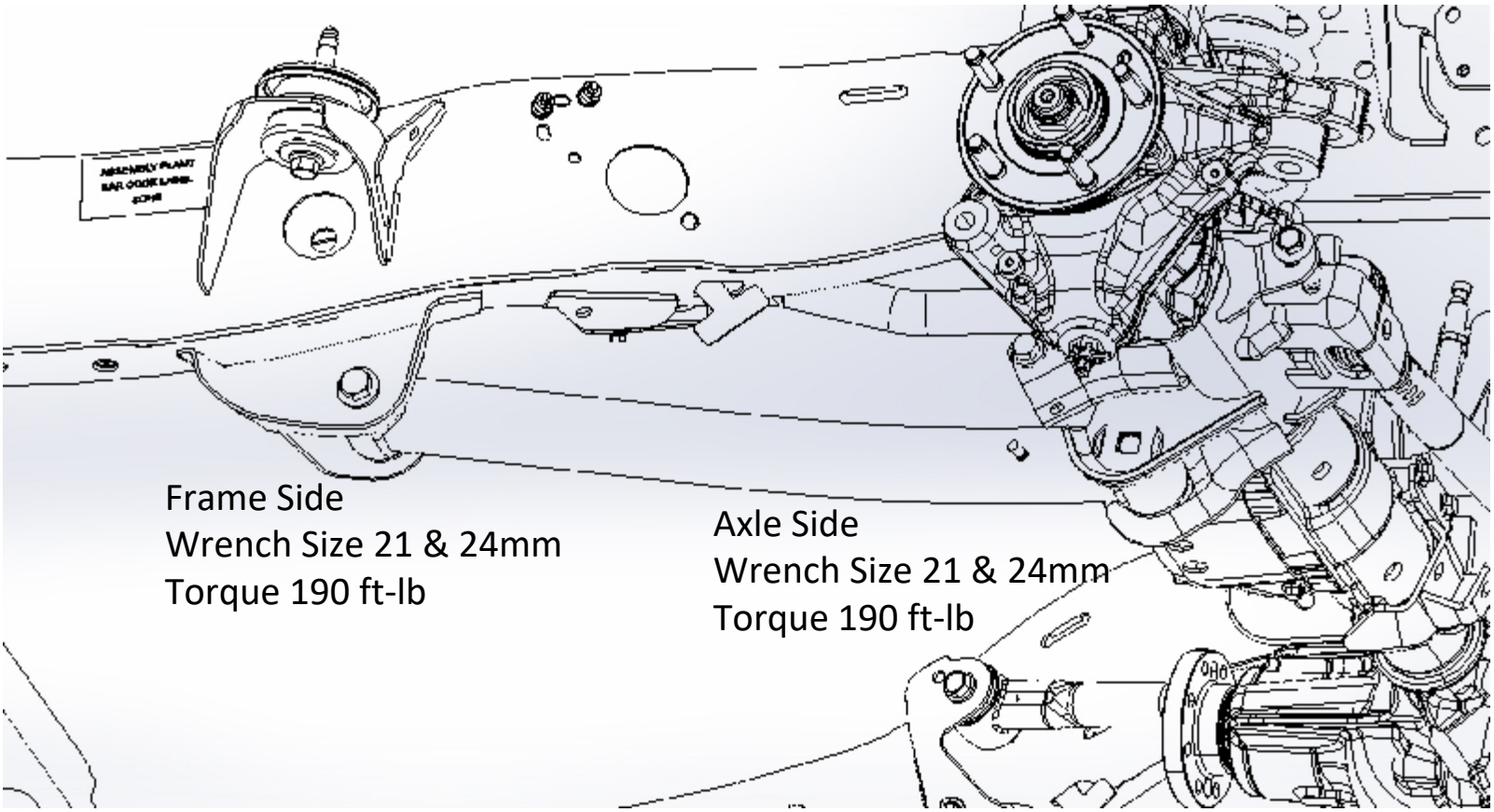
Step 37: Remove rear upper and lower control arms on one side.
Step 38: Install rear lower control arm part number COR-1809102 .
Step 39: Install rear upper control arm part number COR-1809103.
Step 40: Repeat steps 37 and 39 on other side.
Step 41: Remove rear track bar.
Step 42: Install rear track bar part number COR-4509110.
Step 43: Install rear bump stops part number COR-1409200.
Step 44: Install rear springs part number COR-1509251.
Step 45: Install rear shocks.
Step 46: Install rear sway bar links part number COR-5109101.
Step 47: Install brake line clip bolts on both sides and bolt in parking brake cables.
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 an 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 twith 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 51: Adjust length of front upper arms to have a caster angle of 4.8 degress. This angle should be within plus or minus 1.00 degress.
Step 52: Adjust rear pionion angle to keep lower spring perches aligned with upper spring perches. On 2 door models it will be neccesary to roll the pinion up to avoid the rear drive shaft from binding on full droop.
Step 53: Tighten all track bar and control arm bolts.
Step 54: Tighten all track bar and control arm jam nuts.

Clayton Off Road
COR-1809100
Jeep Wrangler Short Front Lower Control Arms (2018 & Up, JL)

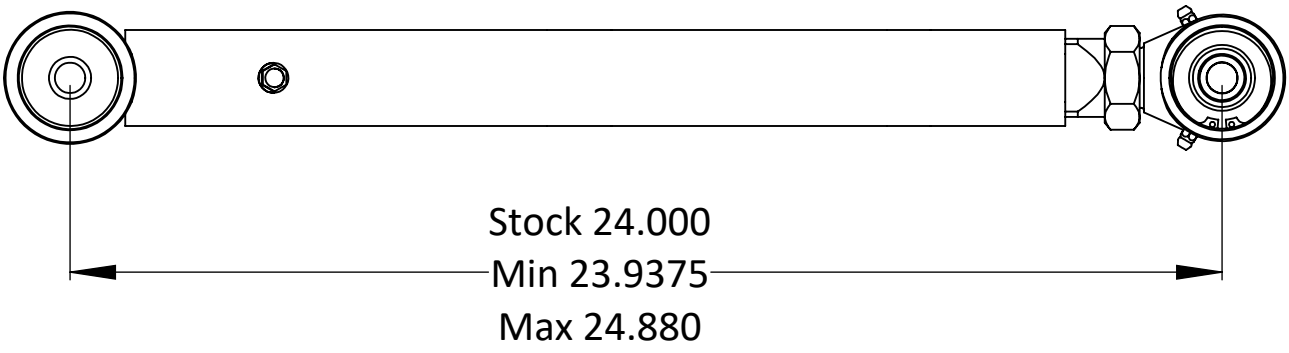
NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this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

Refer to pictures below.

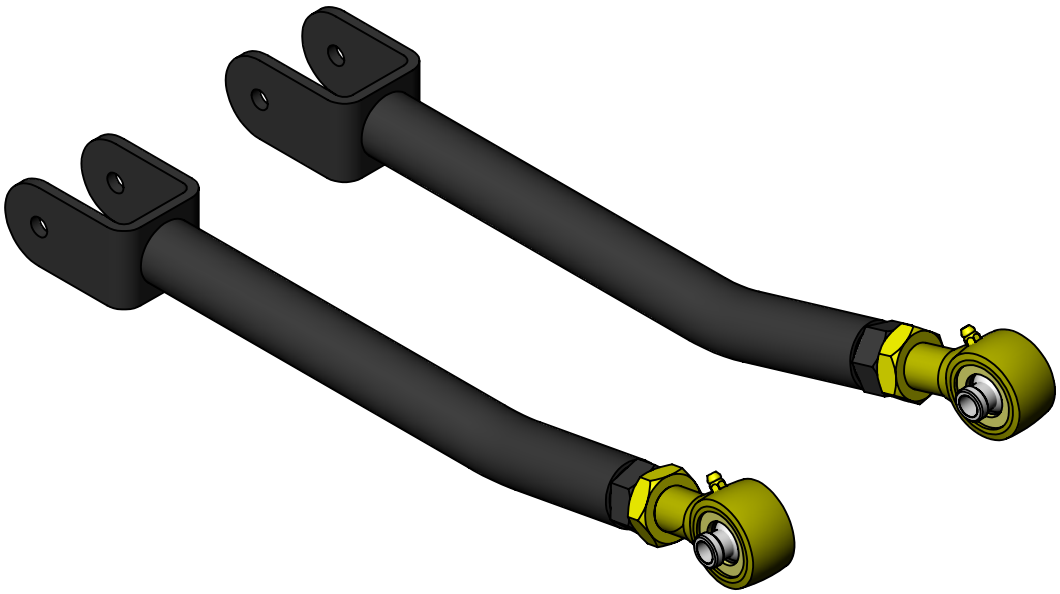
Step 1: Remove old control arm on one side.
Step 2: Position axle.
Step 3: Measure length from axle side mount to frame side mount.
Step 4: Adjust control arm to length and run jam nut up to control arm tube insert.
Step 5: Install new control arm with adjustment end on frame.
Step 6: Install control arm bolts and nuts.
Step 7: Torques both bolts to 190 ft-lb.
Step 8: Tighten jam nut using a 46mm or 1-13/16" wrench.
Step 9: Make sure Johnny Joint at frame side is centered in bracket.
Step 10: Bolt brake line clip to control arm.
Step 11: Repeat steps 1 to 10 on other side.



Refer to drawing below for minimum and maximum lengths.



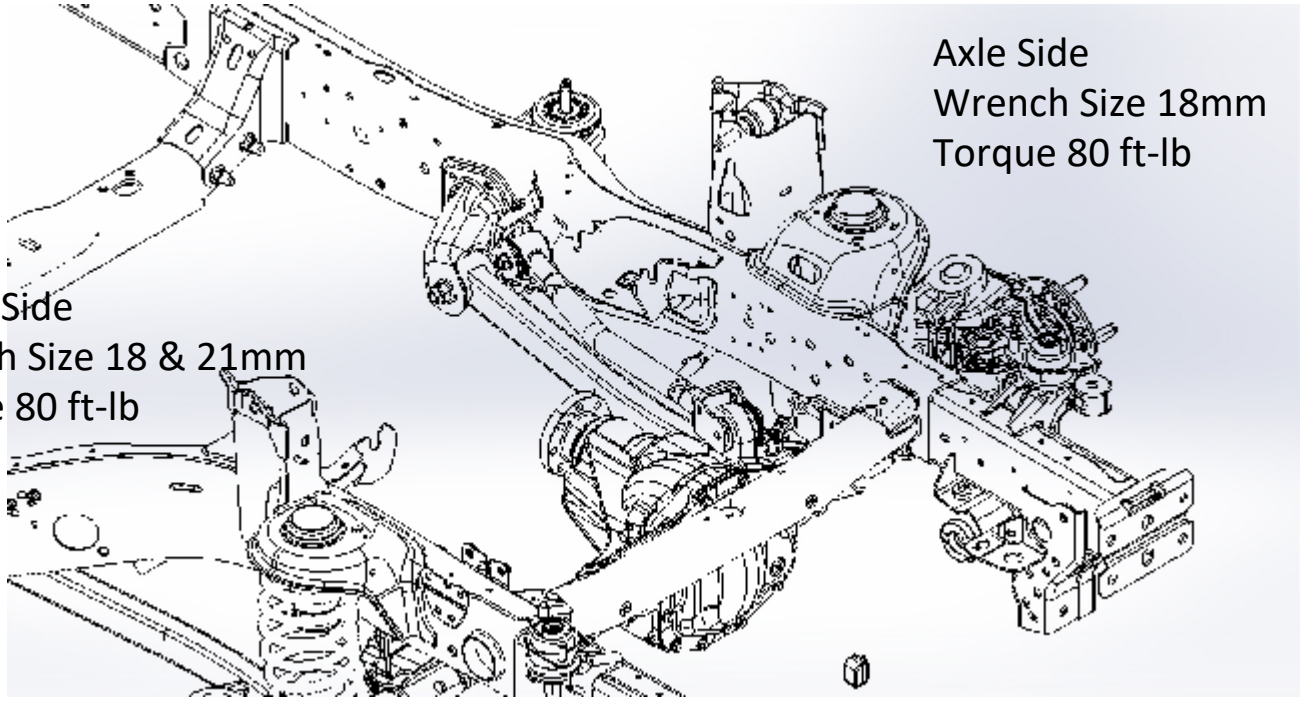
Clayton Off Road
COR-1809101
Jeep Wrangler Short Front Upper Control Arms (2018 & Up, JL)

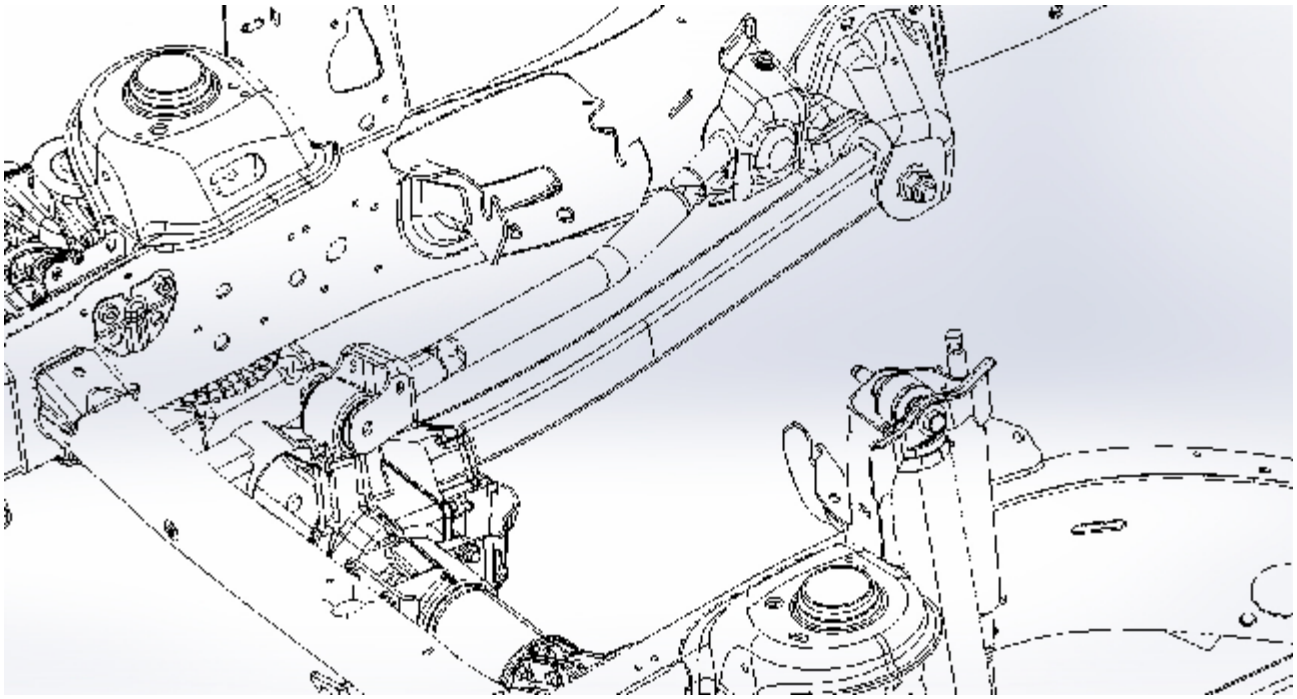


NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this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

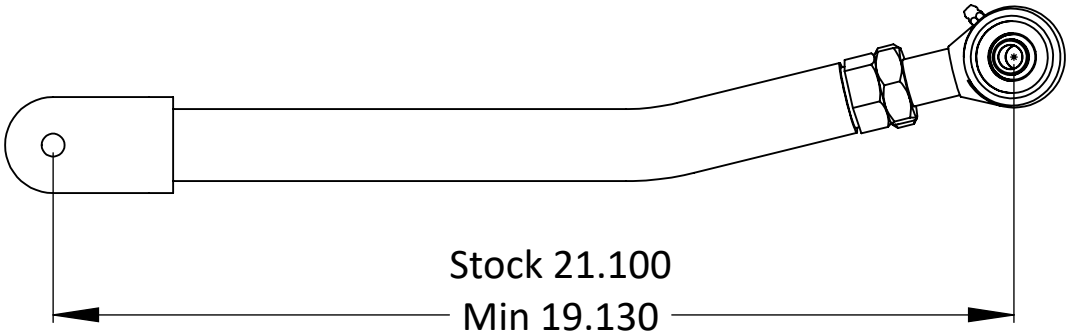
Refer to pictures below.

Step 1: Support axle from rotating, a floor or bottle jack works well.
Step 2: Remove old control arms.
Step 3: Set caster to 4.5 to 5.5 degrees by adjusting the height of the jack.
Step 4: Install arms at frame side, arm should bow away from frame.
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.
Step 9: Make sure Johnny Joint at frame side is centered in bracket.

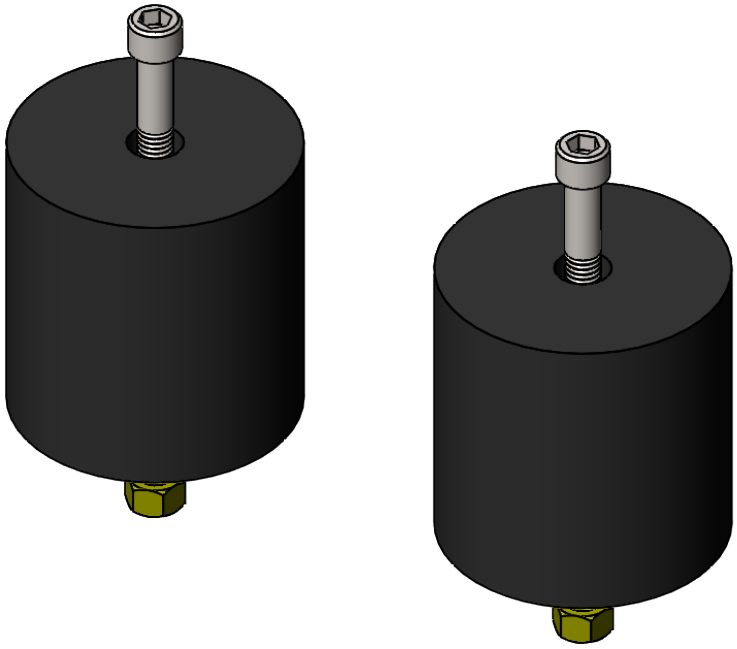




Refer to drawing below for minimum and maximum lengths.



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

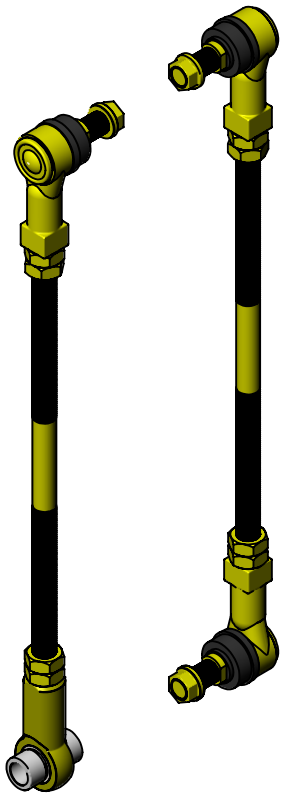


NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this 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.

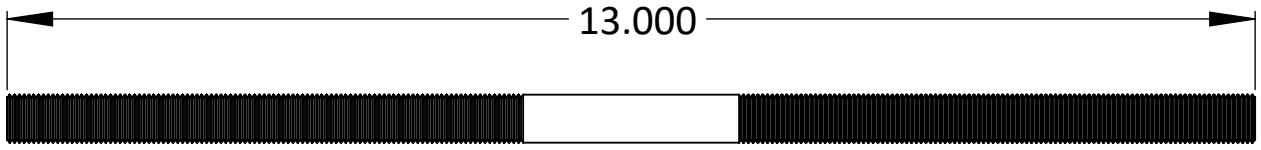
Clayton Off Road
COR-5109100
Jeep Wrangler Adjustable Front Sway Bar End Links (2018 & Up, JL)



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 sway bar end links.
Step 2: Drill hole in sway bar to1/2" diameter.
Step 3: Make sure vehicle is at ride height.
Step 4: Set sway bar at a 5 degree upward angle.
Step 5: Measure the distance from the upper and lower mounting holes.
Step 6: Use the formula below to calculation rod length.
Step 7: Cut rod to length.
Step 8: Install two jam nuts on each end of rod.
Step 9: It maybe necessary to lock the 2 jam nuts against each other to thread rod end on.
Step 10: The rod end with no stud in it goes on the passenger side axle, Use a aluminum spacer on each side of this rod end.
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

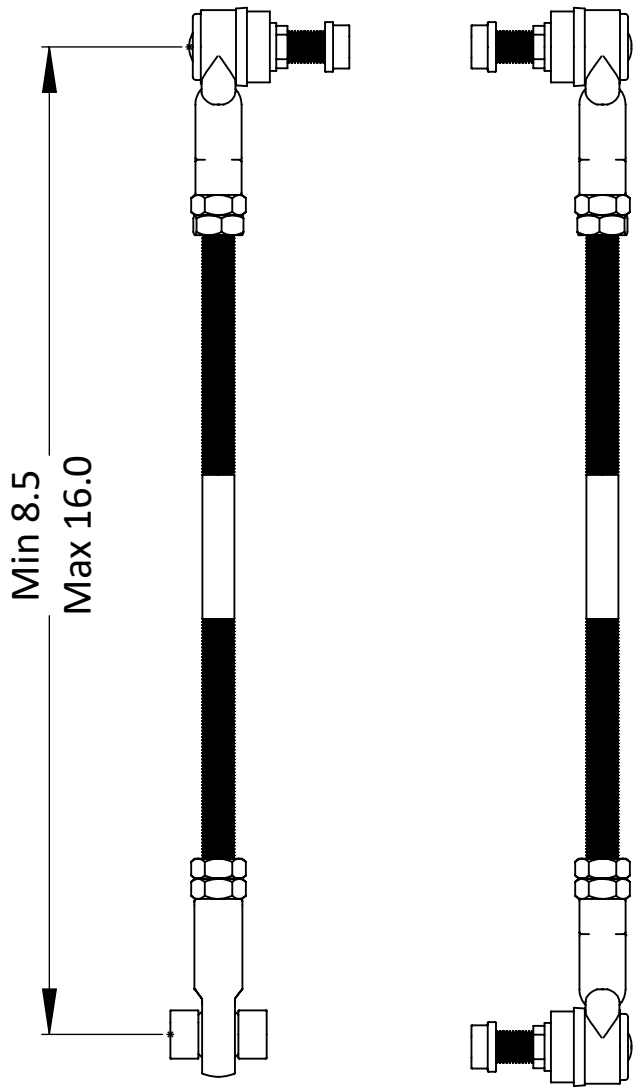
Take the center distance and subtract 2.625" from it, this is the rod length.

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

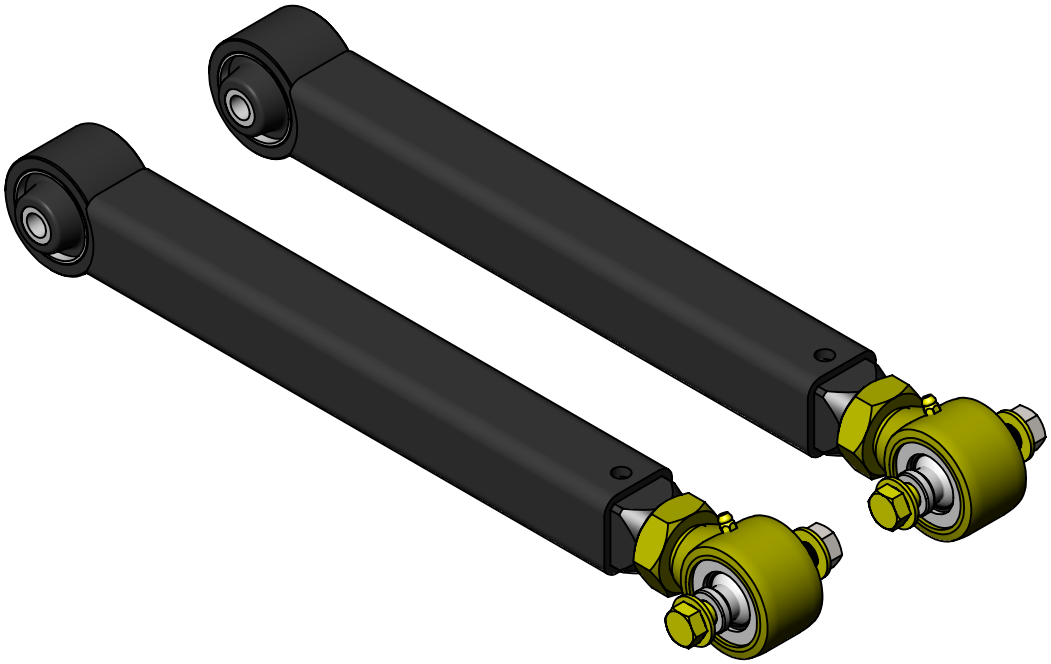
This is the length to cut from each end of the rod.

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.



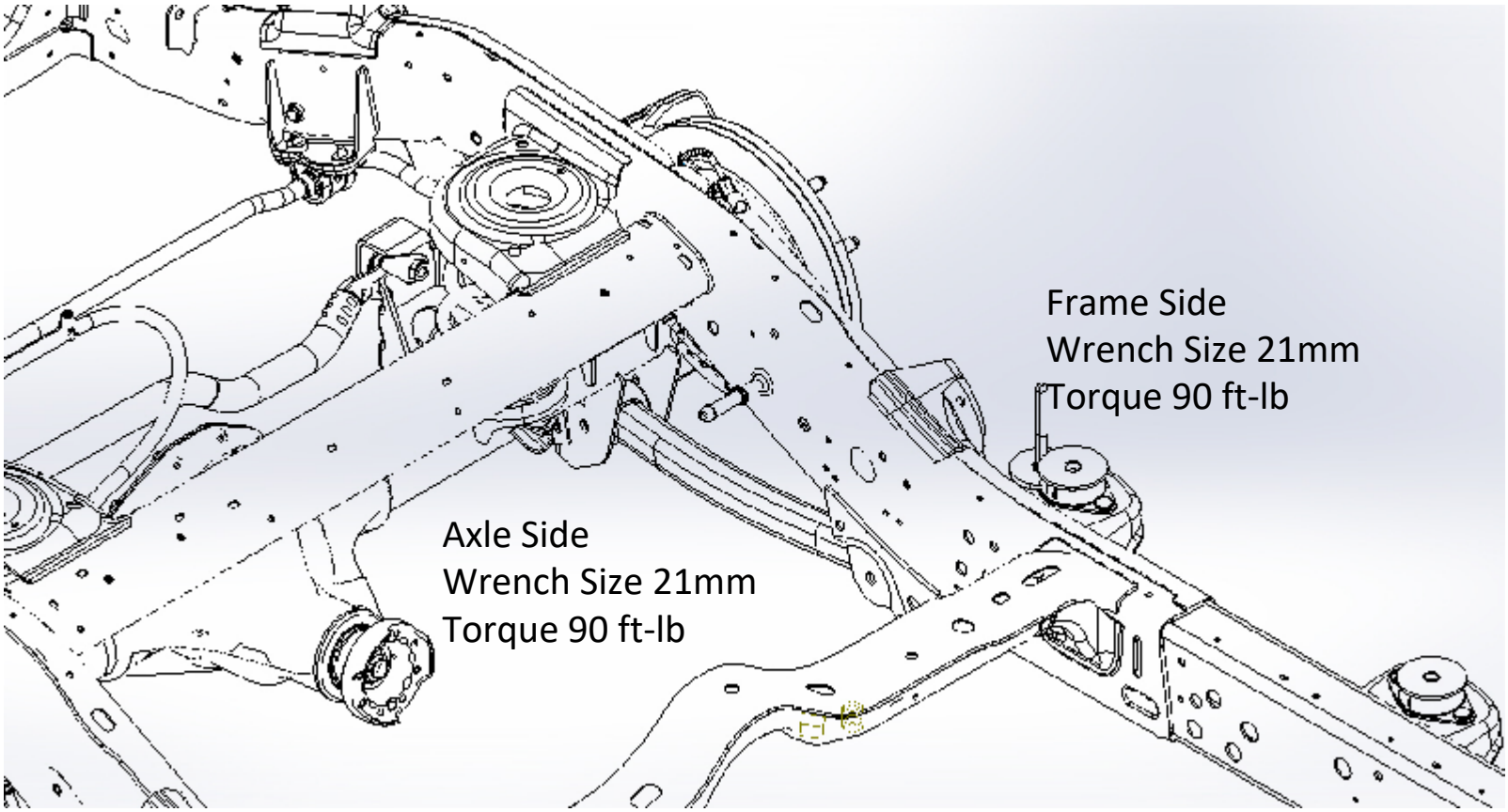
Clayton Off Road
COR-1809102
Jeep Wrangler Short Rear Lower Control Arms (2018 & Up, JK/JL)



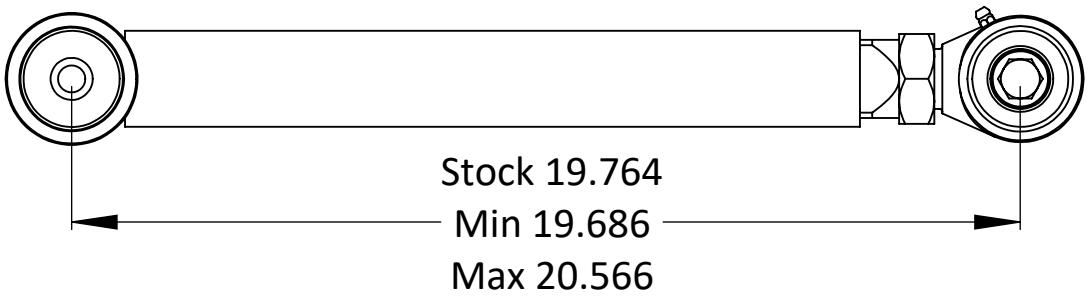
NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this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

Refer to pictures below.

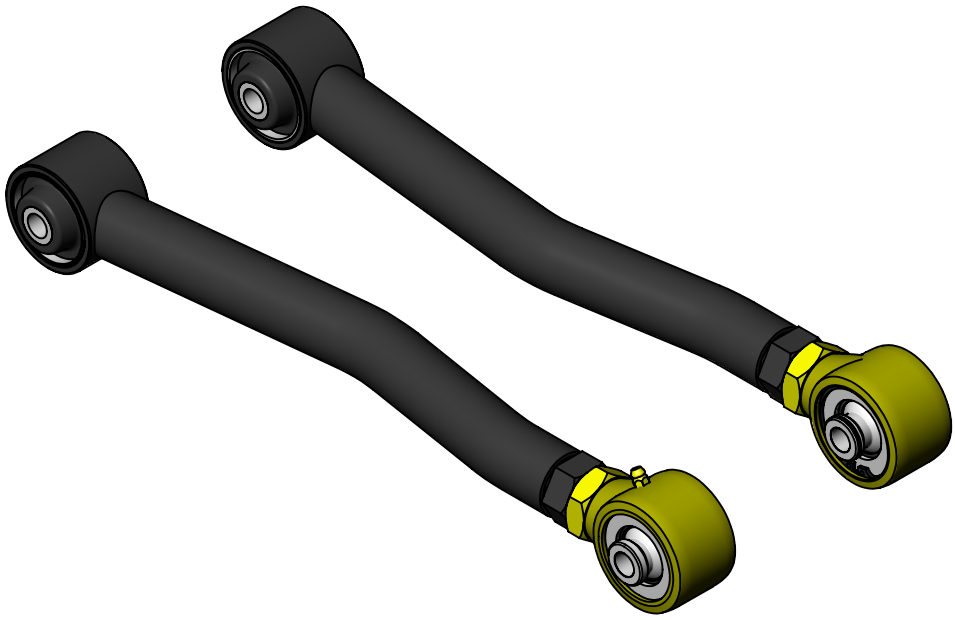
Step 1: Remove old control arm on one side.
Step 2: Position axle.
Step 3: Measure length from axle side mount to frame side mount.
Step 4: Adjust control arm to length and run jam nut up to control arm tube insert.
Step 5: Install new control arm with adjustment end on frame.
Step 6: Install control 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: Make sure Johnny Joint at frame side is centered in bracket.
Step 10: Repeat steps 1 to 9 on other side.



Refer to drawing below for minimum and maximum lengths.



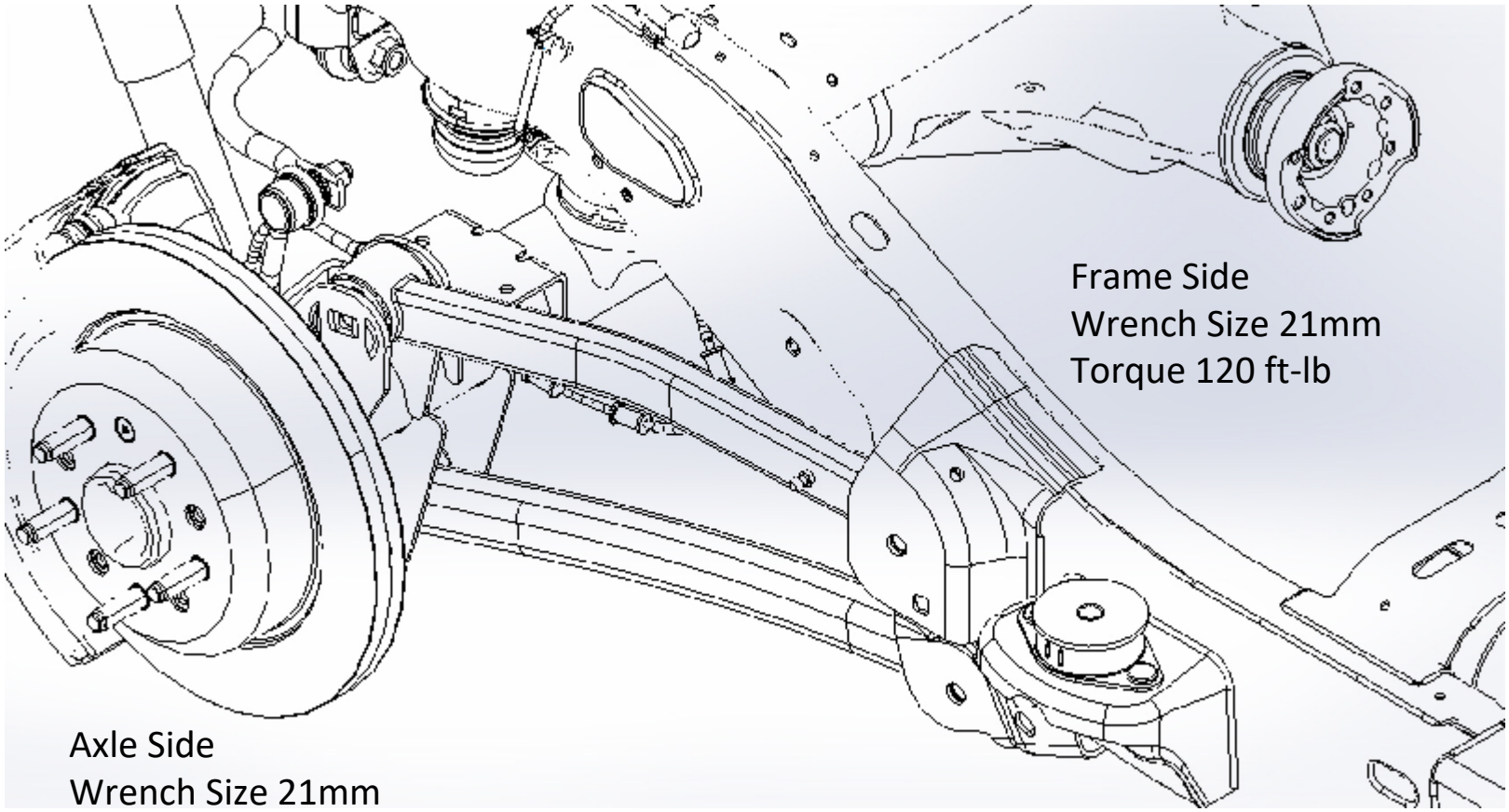
Clayton Off Road
COR-1809103
Jeep Wrangler Short Rear Upper Control Arms (2007 & Up, JK/JL)



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.

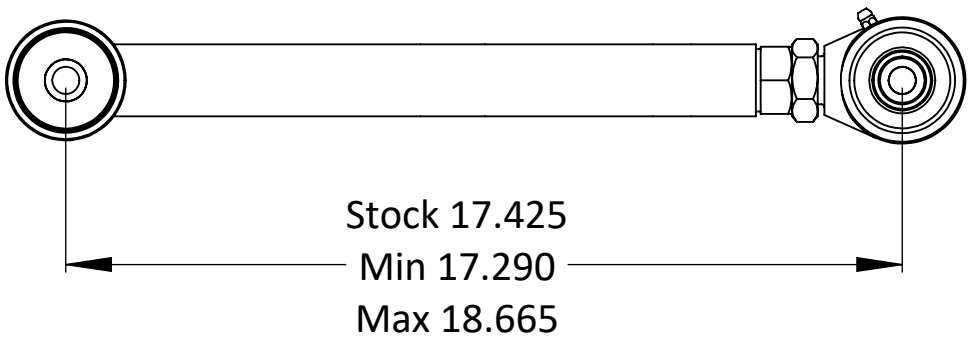
Refer to pictures below.

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

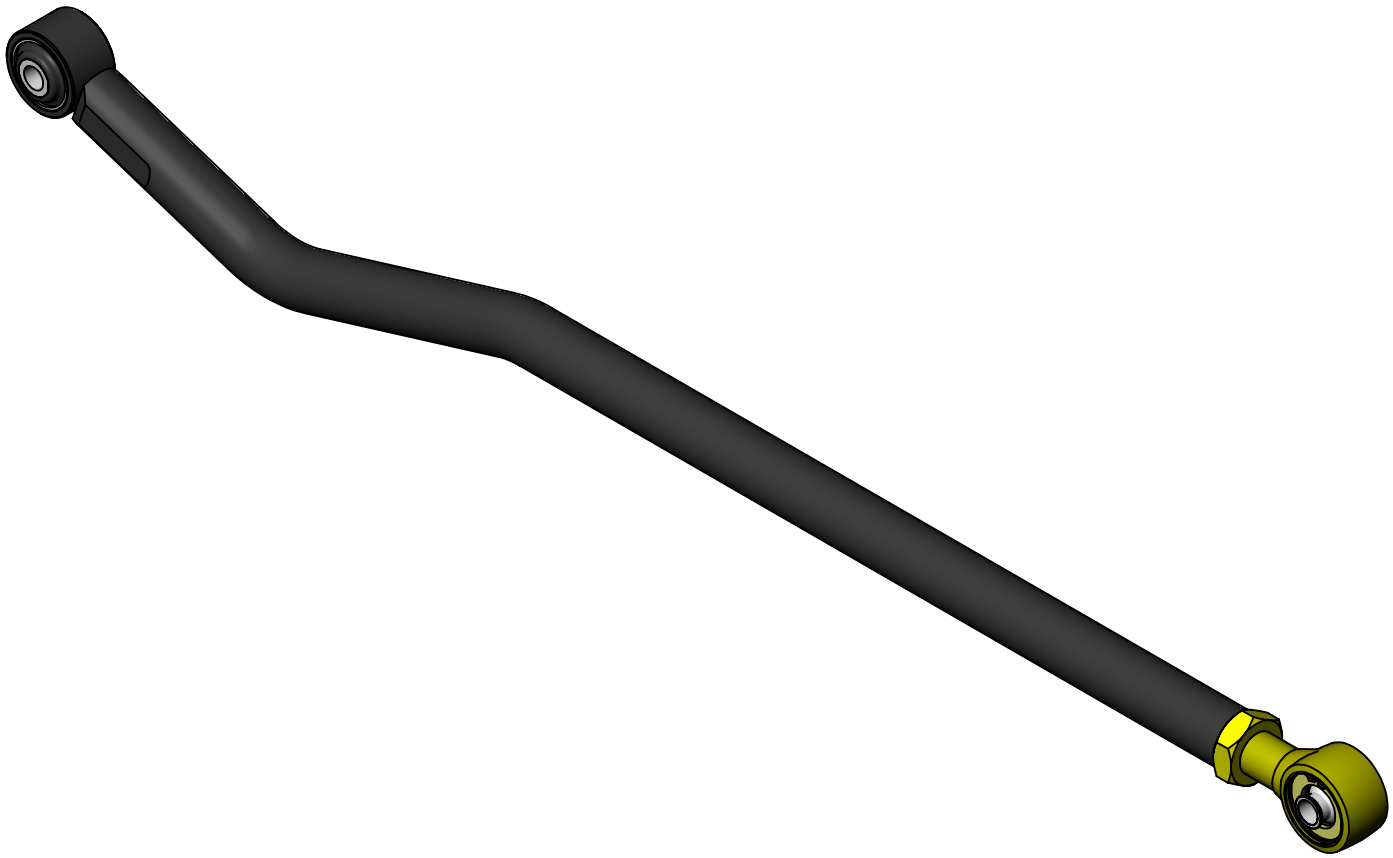


Axle Side
Wrench Size 21mm
Torque 95 ft-lb

Refer to drawing below for minimum and maximum lengths.



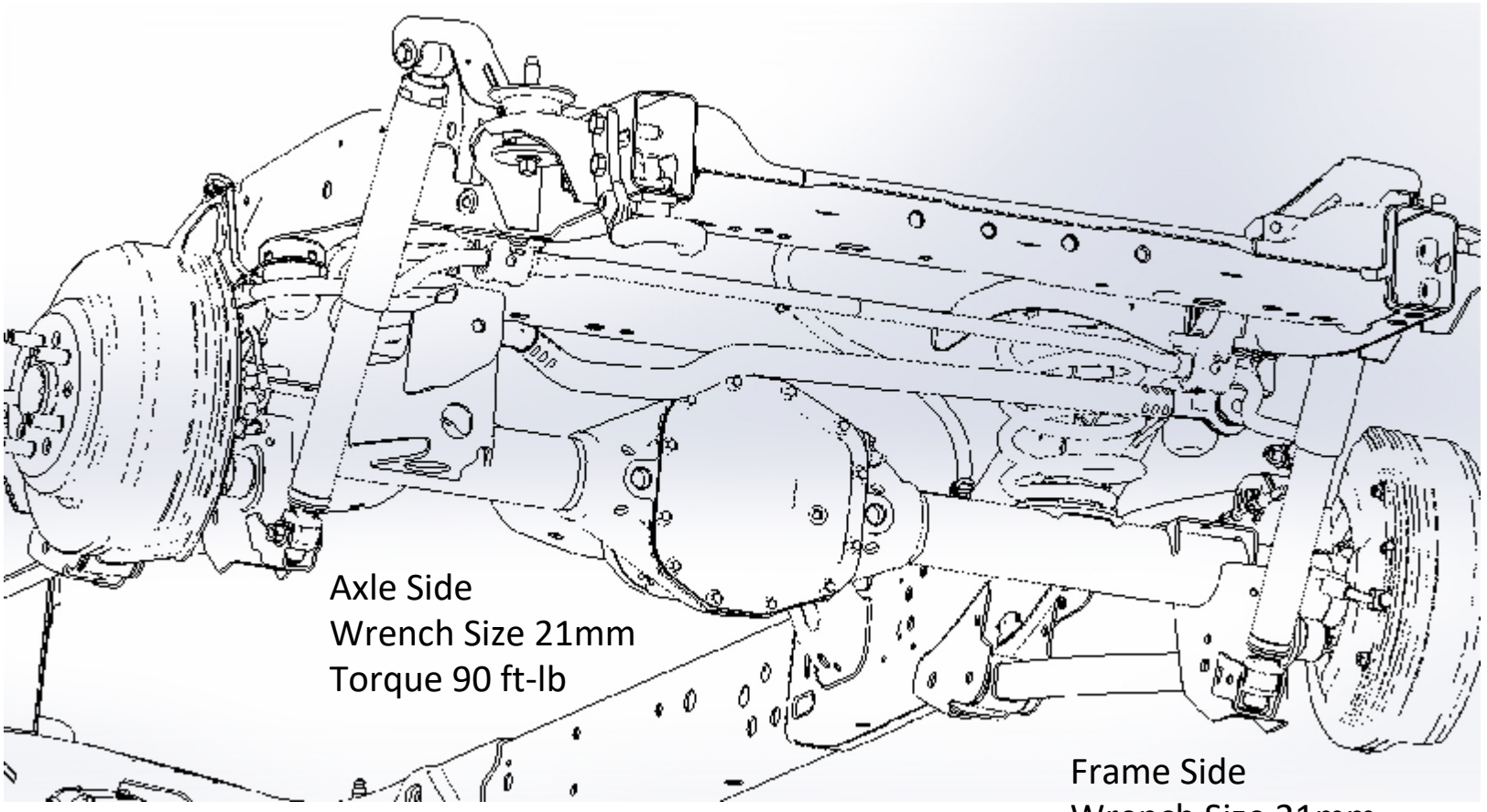
Clayton Off Road
COR-4509110
Jeep Wrangler Adjustable Rear Track Bar (2018 & Up, JL)



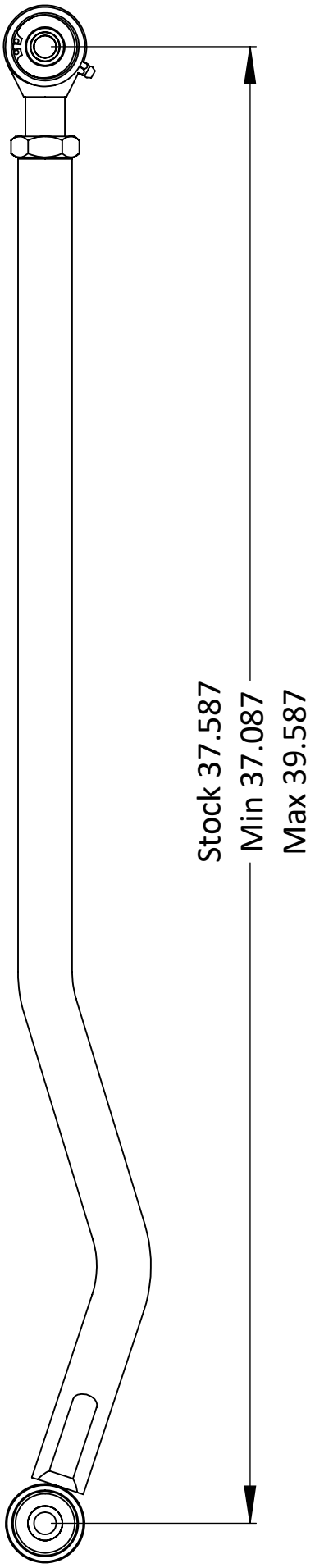
NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this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

Refer to pictures below.

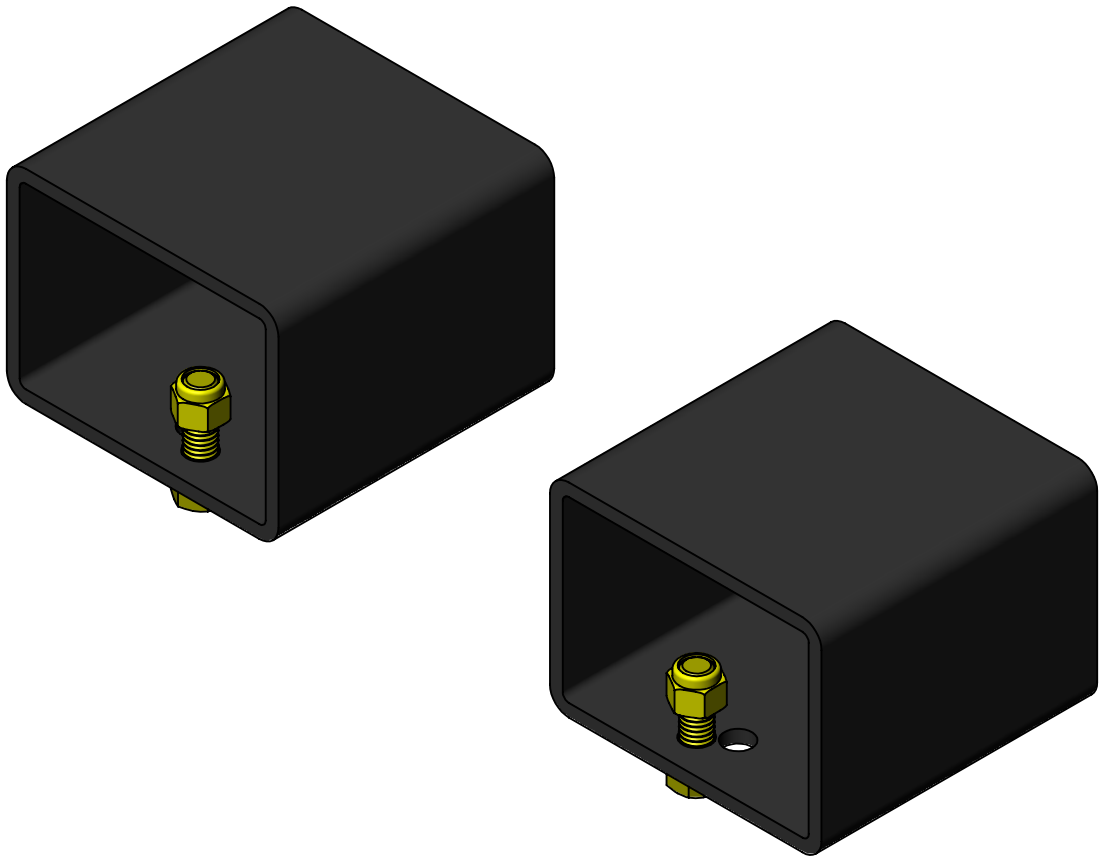
Step 1: Remove old track bar.
Step 2: Center frame on axle.
Step 3: Measure length from axle side mount to frame side mount.
Step 4: Adjust track bar to length and run jam nut up to track bar tube.
Step 5: Install new track bar with adjustment end on axle.
Step 6: Install track bar bolts and nuts.
Step 7: Torques both bolts to 90 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.



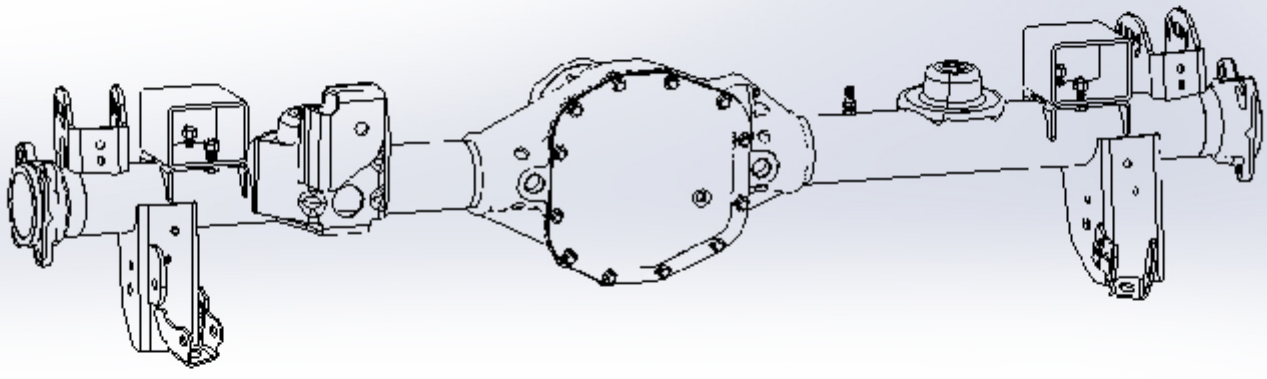
Clayton Off Road
COR-1409200
Jeep Wrangler Rear Bump Stops (2018 & Up, JL)



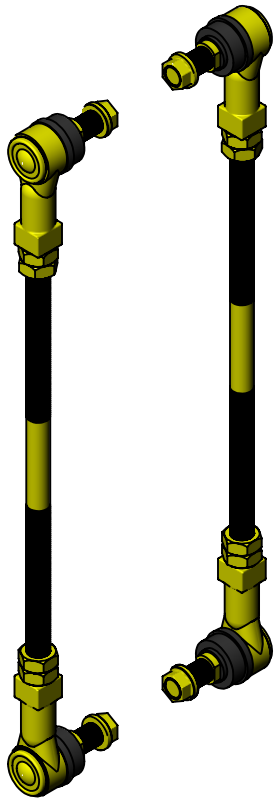
NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this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

Refer to picture below.

Step 1: Locate bump stop on axle mount with holes offset to the inside.
Step 2: Insert bolts from the bottom, thread nuts on.
Step 3: Torque bolts to 30 ft-lb.
Step 4: Repeat steps 1 to 3 on other side.



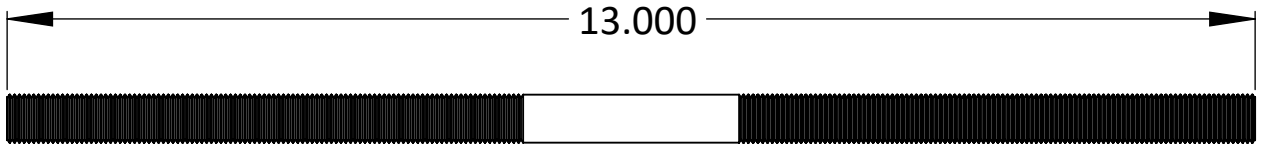
Clayton Off Road
COR-5109100
Jeep Wrangler Adjustable Rear Sway Bar End Links (2018 & Up, JL)



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 sway bar end links.
Step 2: Drill hole in sway bar to1/2" 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 calculation rod length.
Step 7: Cut rod to length.
Step 8: Install two jam nuts on each end of rod.
Step 9: It maybe 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.