



Part #: 16-7428

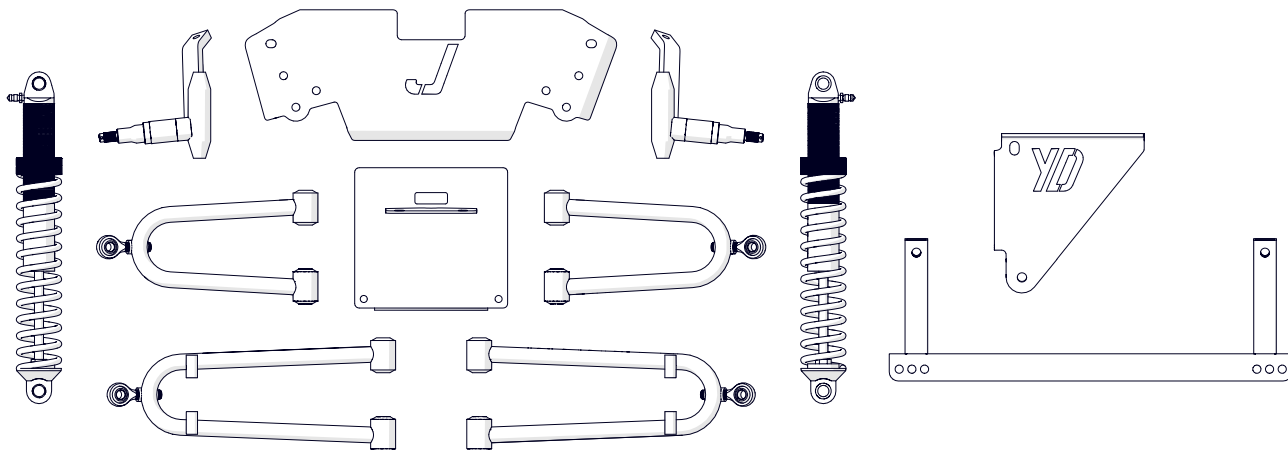
Jake's Long Arm Travel Lift Kit 2017-19 Yamaha Drive 2 Electric

ITEMS INCLUDED

Front Sub-Frame	2 Front Shocks
Front Upper Shock Plate	Rear Shock Goalpost
2 Upper A-arm Assemblies	Rear Track Bar Bracket
2 Lower A-arm Assemblies	Front Hardware Kit
Driver's Side Spindle	Rear Hardware Kit
Passenger's Side Spindle	

TOOLS NEEDED

Drill	9/16" Socket
Ratchet	22mm Wrench
3/8" Drill Bit	17mm Wrench
17mm Socket	14mm Wrench
14mm Socket	3/4" Wrench
3/4" Socket	5/8" Wrench
5/8" Socket	9/16" Wrench



STEP 1

Remove the roof, front cowl, and front bumper from the vehicle, saving all hardware for reinstallation.

Place the front of the vehicle on jack stands, making sure it is raised high enough to accommodate the new lift and larger tires.

Remove stock wheels, hubs, spindle, shocks, and a-arms. Keep the stock hubs, hub hardware, and a-arm hardware for later reinstallation.

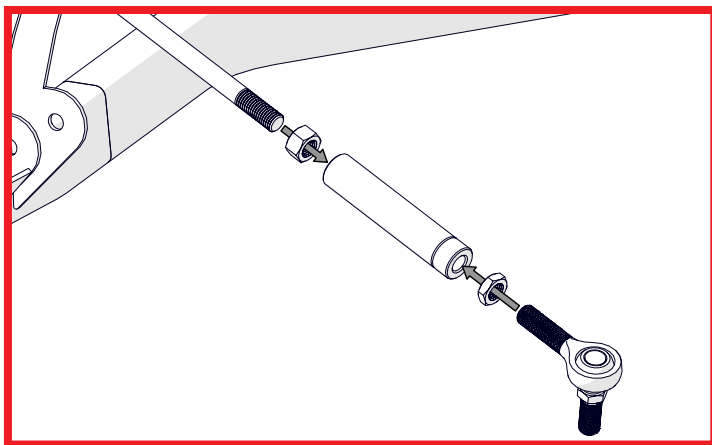


VEHICLE SHOWN WITH FRONT SUSPENSION REMOVED

STEP 2

 17mm and 22mm WRENCH

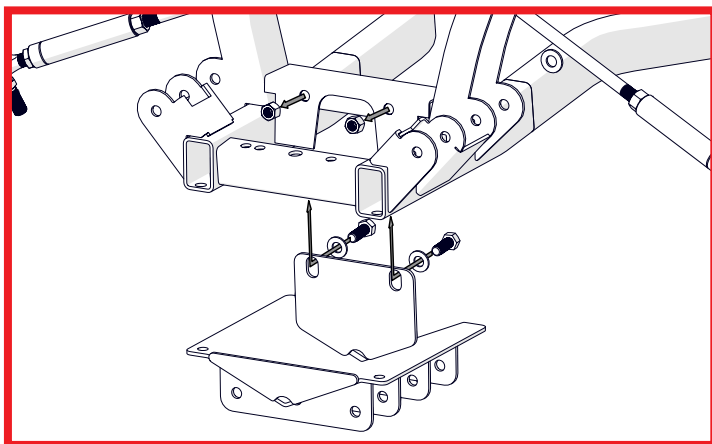
Remove stock tie rod ends from steering box and discard. Install steering extension and new tie rod end with jams nuts on both sides of the steering box.



STEP 3

 9/16" WRENCH, 9/16" SOCKET, RATCHET

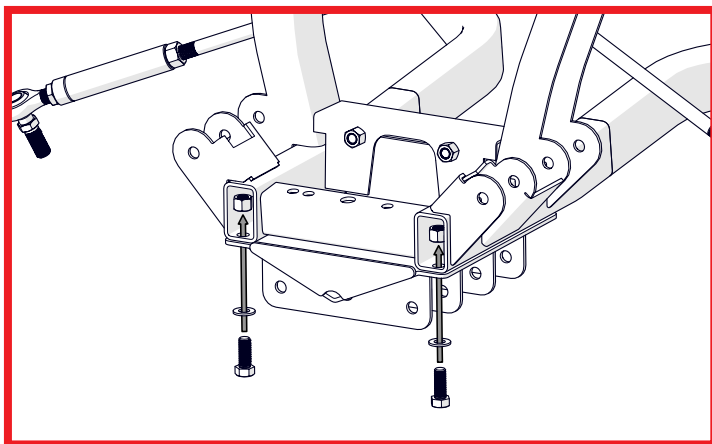
Install the front sub-frame to the front cross member of the vehicle using two 3/8" x 1" hex bolts, two 3/8" lock nuts, and four 3/8" flat washers.



STEP 4

 9/16" WRENCH, 9/16" SOCKET, RATCHET, 3/8" DRILL BIT, DRILL

Using the front sub frame as a guide, drill two holes up into the vehicle frame tubes and install two 3/8" x 1" hex bolts and two 3/8" lock nuts.

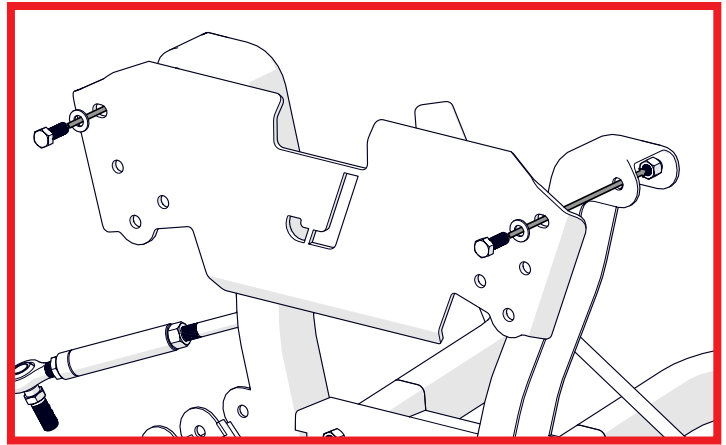


STEP 5



9/16" WRENCH, 9/16" SOCKET, RATCHET

Install the front upper shock plate to the holes where the stock shocks were mounted using two 3/8" x 1" hex bolts, two 3/8" flat washers, and two 3/8" lock nuts.

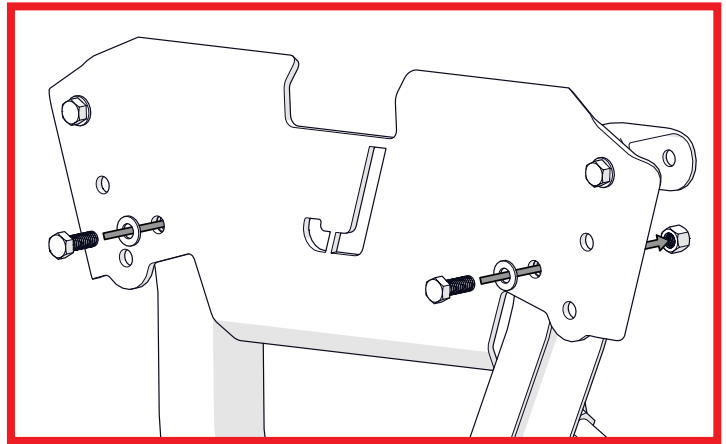


STEP 6



9/16" WRENCH, 9/16" SOCKET, RATCHET,
3/8" DRILL BIT, DRILL

Using the front upper shock plate as a guide, drill two holes into the vehicle shock towers and install two 3/8" x 1" hex bolts, two 3/8" flat washers, and two 3/8" lock nuts.



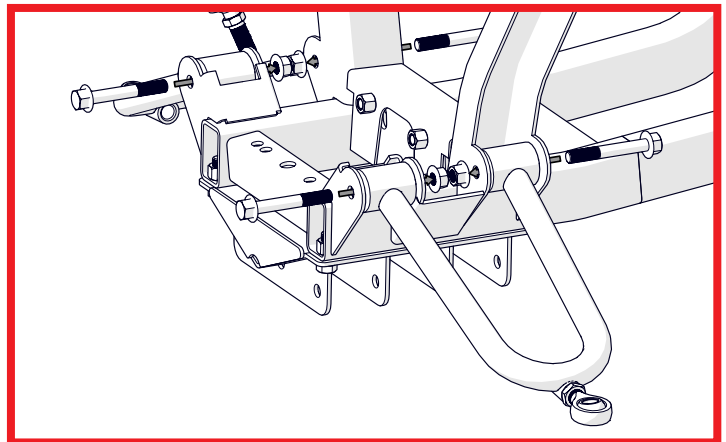
STEP 7



14MM WRENCH, 14MM SOCKET, RATCHET

Install the upper a-arms (oriented as shown with heim joints on the bottom) to the stock a-arm mounting locations using the stock a-arm mounting hardware.

NOTE: Upper a-arms are not side specific.

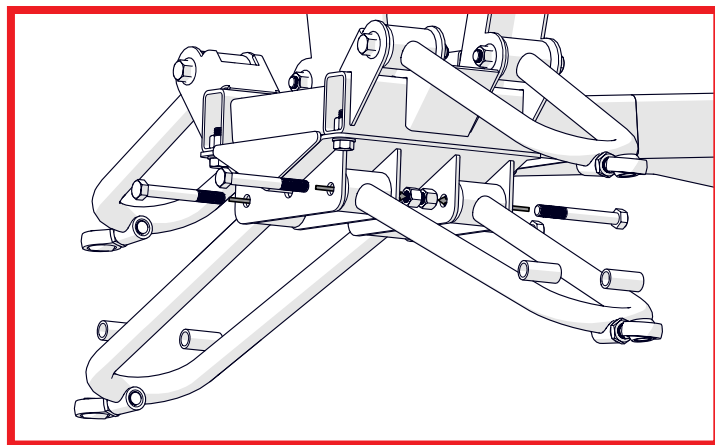


STEP 8

 9/16" WRENCH, 9/16" SOCKET, RATCHET

Install the lower a-arms (oriented as shown) to the front sub frame using four 3/8" x 3" hex bolts and four 3/8" lock nuts.

NOTE: Lower a-arms are not side specific.

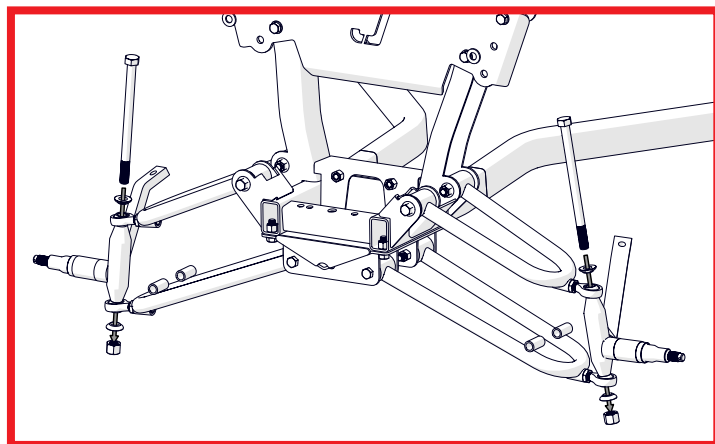


STEP 9

 3/4" WRENCH, 3/4" SOCKET, RATCHET

Install the driver's side spindle (oriented as shown with the steering arm pointing up and to the rear) to the heim joints on the a-arms using two heim joint spacers, one 1/2" x 7.5" hex bolt and one 1/2" lock nut.

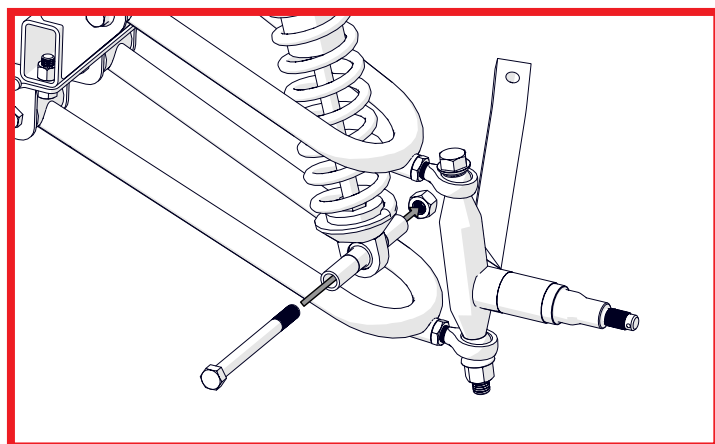
Repeat with the passenger's side.



STEP 10

 5/8" WRENCH, 5/8" SOCKET, RATCHET

Install the bottom of each shock to the lower a-arm using two spacer bushings (one on either side of the shock), one 7/16" x 5" hex bolt, and one 7/16" lock nut.



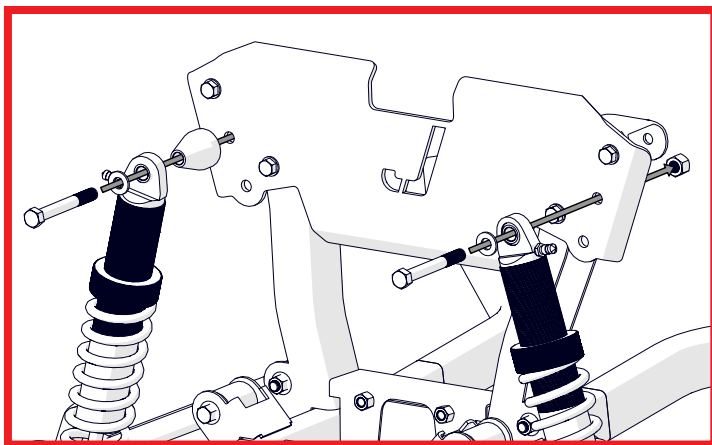
STEP 11



5/8" WRENCH, 5/8" SOCKET, RATCHET

Install the new shocks to the front upper shock plate using two cone shock spacers (oriented as shown), two 7/16" x 3.5" hex bolts, two 7/16" flat washers, and two 7/16" lock nuts.

NOTE: Orient shock with valve facing out.

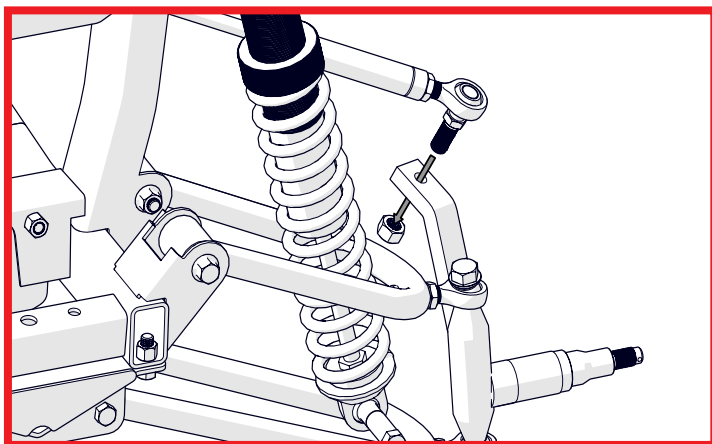


STEP 12



17mm WRENCH, 17mm SOCKET, RATCHET

Install the tie rod ends from the steering box to the steering arm on each spindle using stock castle nut and cotter pin.



STEP 13

Reinstall the wheel hubs to the new spindles using the stock hardware.

Install new wheels and tires.

Recommend 22x11x10 or 23x10.5x12 tires on 3x5 offset wheel for best fit

NOTE: Stock wheels and tires are not compatible with this lift kit.



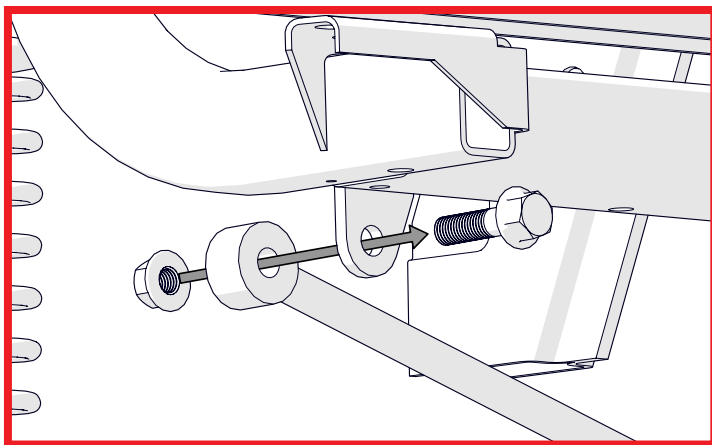
STEP 14



17mm WRENCH, 17mm SOCKET, RATCHET

Remove rear seat kit if installed and bag well.

Remove rear track bar from rear vehicle frame on the driver's side.



STEP 15

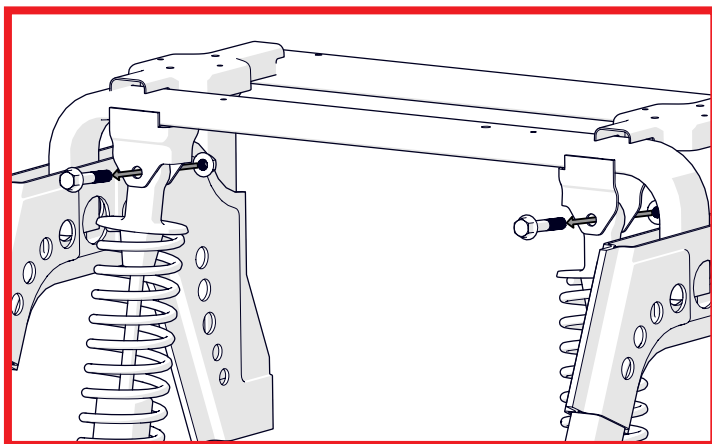


14mm WRENCH, 14mm SOCKET, RATCHET

Raise the rear of the vehicle high enough to accommodate the rear lift and new wheel and tires. Place the vehicle frame on jack stands, and support the rear axle with a floor jack.

Remove the rear wheels.

Uninstall the top of the rear shocks, and keep the hardware for later use.



STEP 16

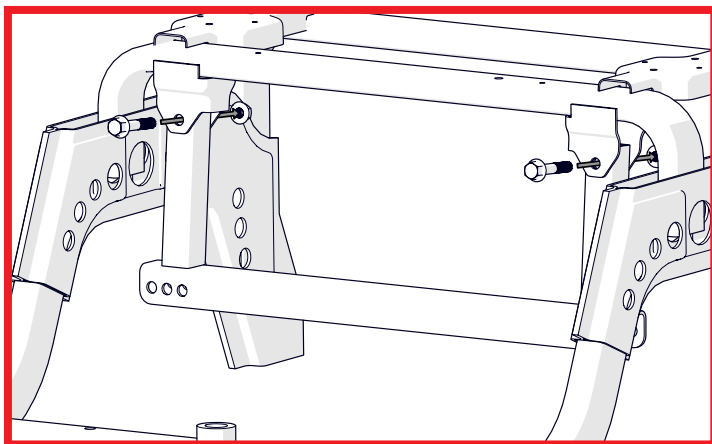


9/16" WRENCH, 9/16" SOCKET, RATCHET

Use the floor jack to carefully lower the rear axle out of the way.

Install the rear shock goal post to the stock shock mounting location using two 3/8" x 2" hex bolts and two 3/8" lock nuts.

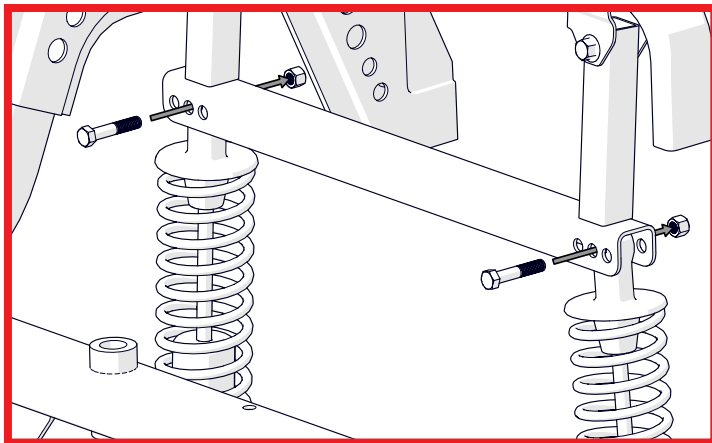
NOTE: The "J" on the goal post should face the front of the vehicle.



STEP 17

 14mm WRENCH, 14mm SOCKET, RATCHET

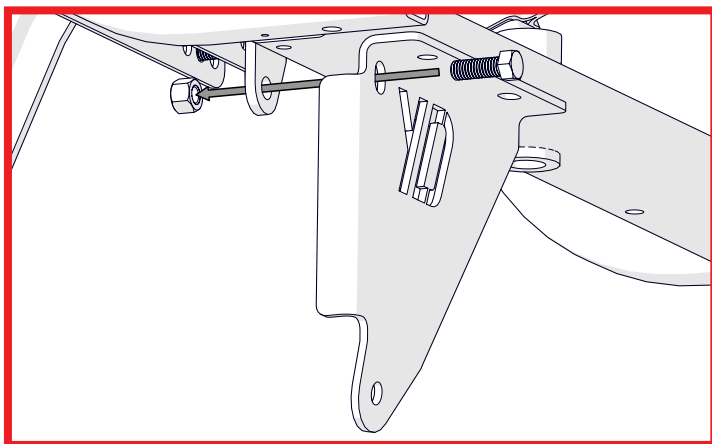
Install the top of the rear shocks to the bottom of the goal post using the stock upper shock mounting hardware.



STEP 18

 5/8" WRENCH, 5/8" SOCKET, RATCHET

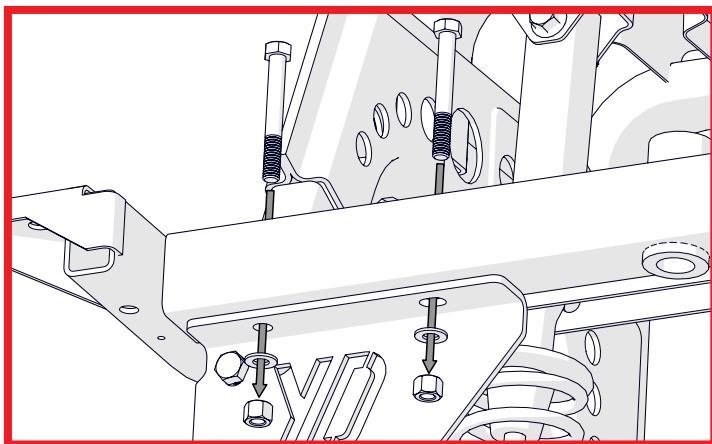
Install new track bar bracket to stock track bar mounting location using one 7/16" x 2" hex bolt and one 7/16" lock nut



STEP 19

 9/16" WRENCH, 9/16" SOCKET, RATCHET

Using the track bar bracket as a template, drill two holes up through both sides of the vehicle frame tube (one hole is existing and just needs to be enlarged) and install two 3/8" x 3" hex bolts, two 3/8" flat washers, and two 3/8" lock nuts.



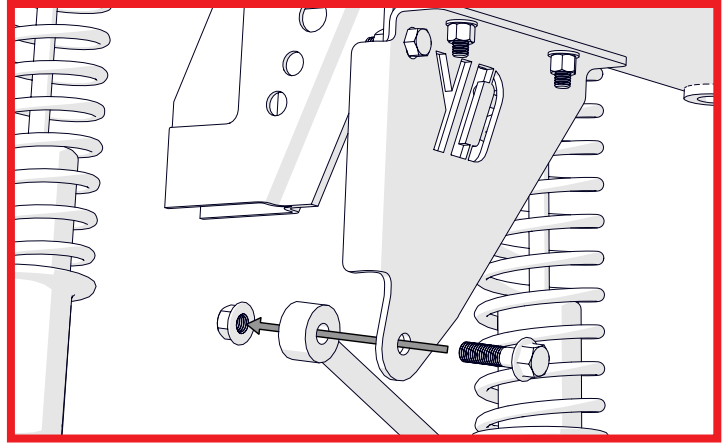
STEP 20



17mm WRENCH, 17mm SOCKET, RATCHET

Install the track bar to the bottom of the track bar bracket using the stock hardware.

Make sure all hardware is tight.



STEP 21

Make sure all lines and cables running to the engine and rear axle have enough length for safe operation, and adjust as needed. clearance

STEP 22



19mm SOCKET, RATCHET

Lower the vehicle to the ground and torque the lug nuts to 65ft-lbs in the front and 58ft-lbs in the rear.



STEP 23

Reinstall the bag well and seat kit, if equipped, using the hardware retained from Step 14.

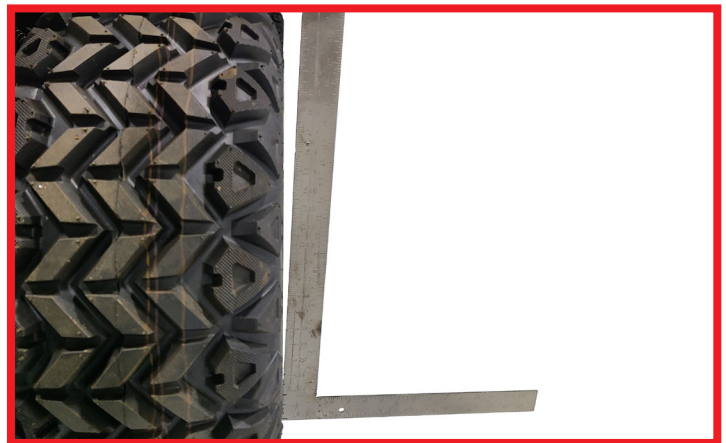


STEP 24

Using a framing square, adjust the camber of each front wheel until the tire is square to the floor.

To adjust, lift the side of the vehicle you want to adjust onto jack stands and remove the nut from the bottom of the spindle bolt. Remove the lower a-arm from the bolt. Loosen the jam nut on the out heim joint of the lower a-arm. Turn the heim joint in or out to make desired adjustment and tighten the jam nut back. Reattach the lower a-arm to the spindle and retighten the hardware. Set the vehicle back on the ground to check the camber again.

Repeat on the opposite side of the vehicle.



STEP 25

Ensure the steering wheel is straight to begin adjusting the toe of the front tires. The measurement between the center of the tread of the two front tires at the front the should be $\frac{1}{8}$ "- $\frac{1}{4}$ " **shorter** than the same measurement at the back of the tires.

To adjust, loosen the jam nut on either side of each steering extension. Turn the extension to adjust in or out as needed and recheck the measurement front and back. Also, ensure that the measurement from the front of each tire to the center of the vehicle is the same on both sides and adjust accordingly.

Once the toe is corrected, tighten the jam nuts on both steering extensions.

Test drive vehicle and check camber and toe measurements again. If needed, adjust accordingly and retighten all hardware.



STEP 26

Place the included warning label in a highly visible area on the vehicle for all users to read before operating the vehicle (recommend steering column).



INSTALLATION COMPLETE

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