

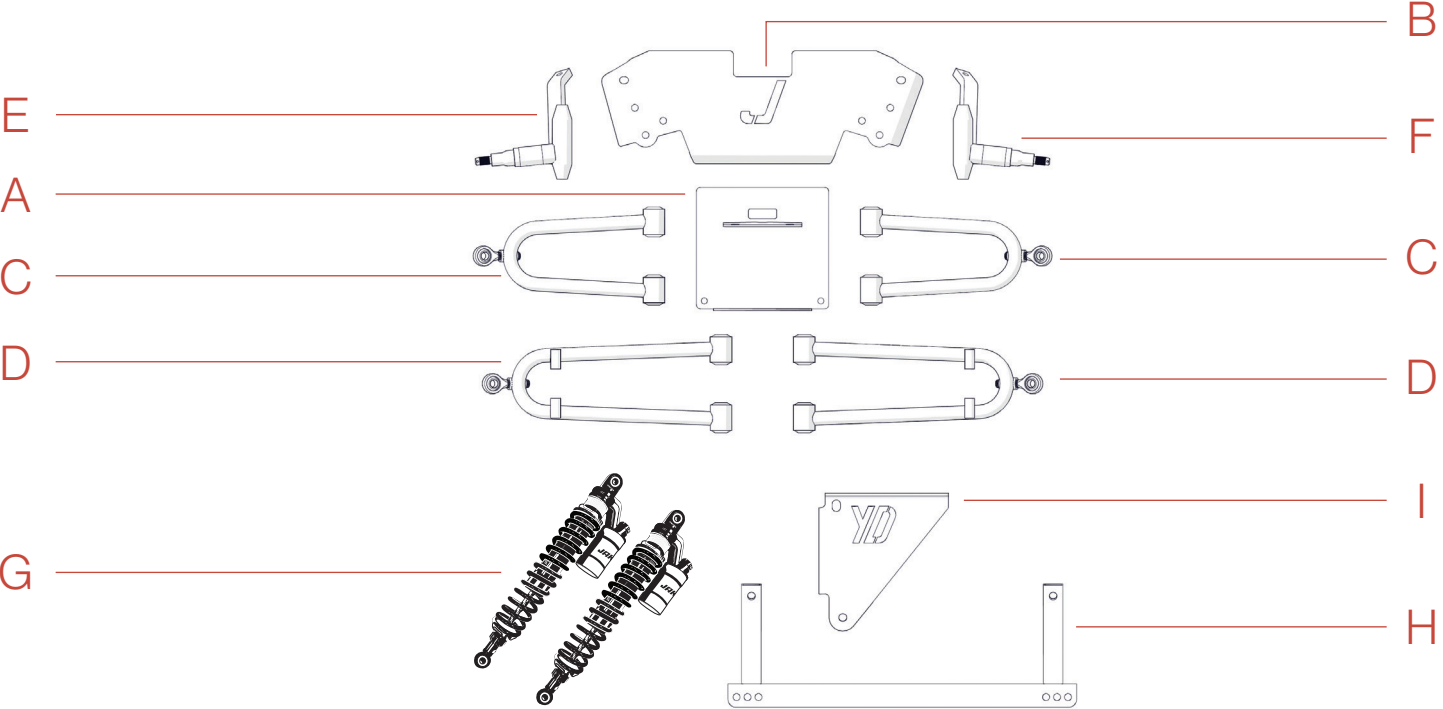


## INSTALLATION INSTRUCTIONS

**Part 16-776**

Long Travel Lift Kit for Yamaha Drive2  
2017-Up Electric

# Parts Diagram



CALLOUT	ITEM	QTY
A	FRONT SUB-FRAME	1
B	FRONT UPPER SHOCK PLATE	1
C	UPPER A-ARM ASSEMBLIES	2
D	LOWER A-ARM ASSEMBLIES	2
E	DRIVER'S SIDE SPINDLE	1
F	PASSENGER'S SIDE SPINDLE	1
G	JAKE'S LONG TRAVEL SHOCKS WITH EXTERNAL RESERVOIR	2
H	REAR SHOCK GOALPOST	1
I	REAR TRACK BAR BRACKET	1
J	FRONT HARDWARE KIT (NOT PICTURED)	1
K	REAR HARDWARE KIT (NOT PICTURED)	1

TOOLS NEEDED	
DRILL	5/8" WRENCH
RATCHET	9/16" WRENCH
3/8" DRILL BIT	
17MM SOCKET	
14MM SOCKET	
3/4" SOCKET	
5/8" SOCKET	
9/16" SOCKET	
22MM WRENCH	
17MM WRENCH	
14MM WRENCH	
3/4" WRENCH	

  
*Always wear appropriate  
eye protection!*

# Assembly

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.



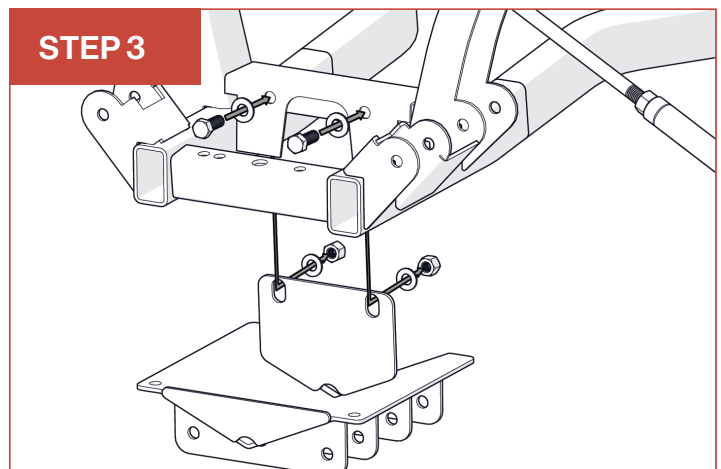
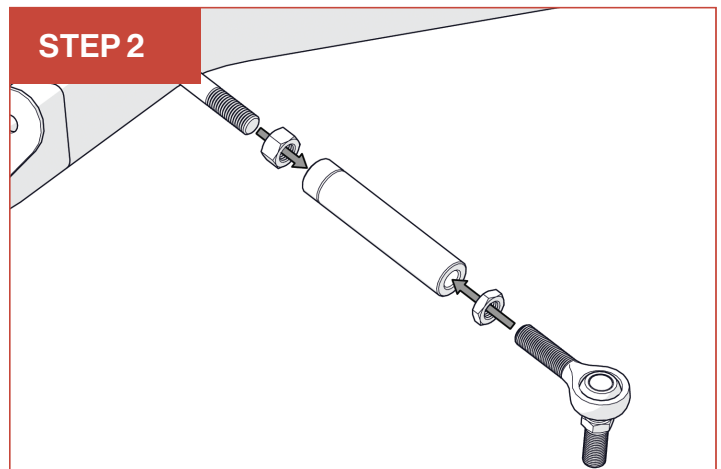
17mm and 22mm WRENCH

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.



$\frac{9}{16}$ " WRENCH,  $\frac{9}{16}$ " SOCKET

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

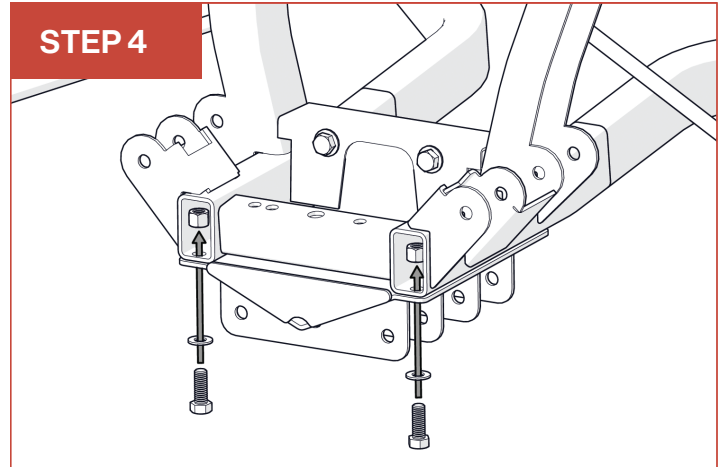


# Assembly



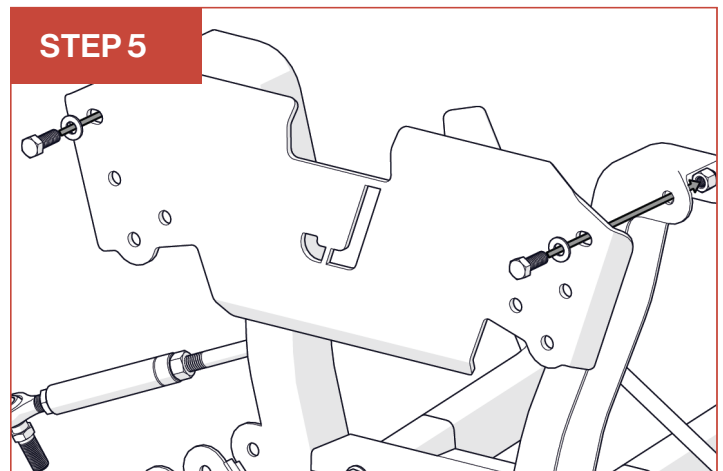
$\frac{9}{16}$ " WRENCH,  $\frac{9}{16}$ " SOCKET, RATCHET,  
 $\frac{3}{8}$ " DRILL BIT, DRILL

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



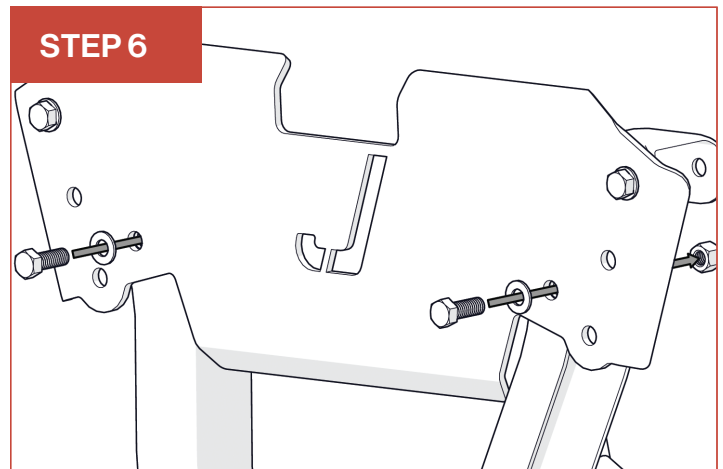
$\frac{9}{16}$ " WRENCH,  $\frac{9}{16}$ " SOCKET, RATCHET

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



$\frac{9}{16}$ " WRENCH,  $\frac{9}{16}$ " SOCKET, RATCHET,  
 $\frac{3}{8}$ " DRILL BIT, DRILL

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



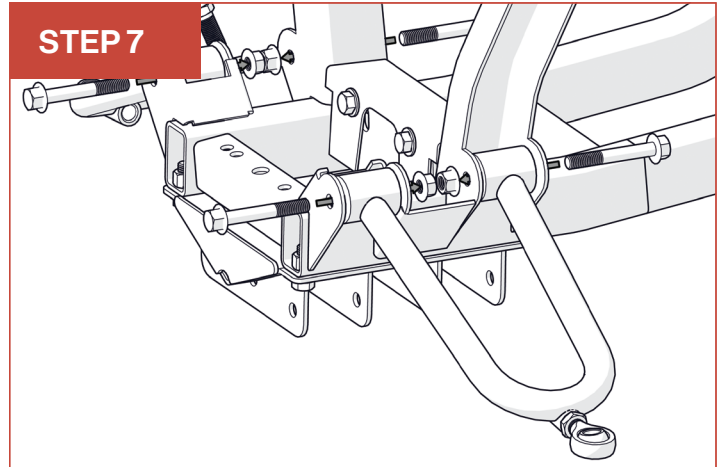
# Assembly



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.

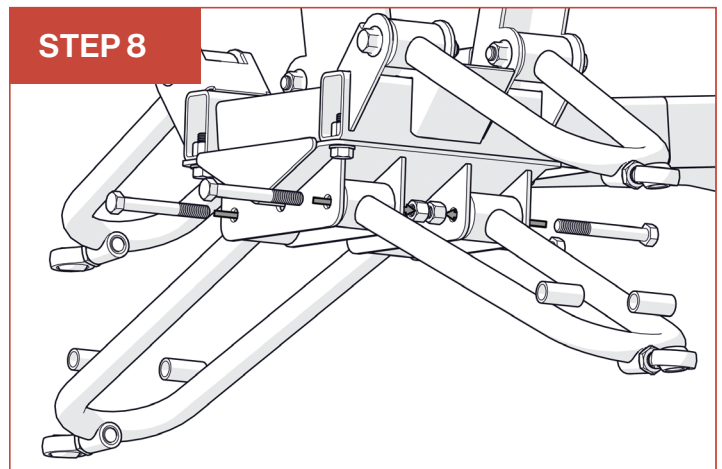
**NOTE:** Upper a-arms are not side specific.



$\frac{9}{16}$ " WRENCH,  $\frac{9}{16}$ " SOCKET, RATCHET

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

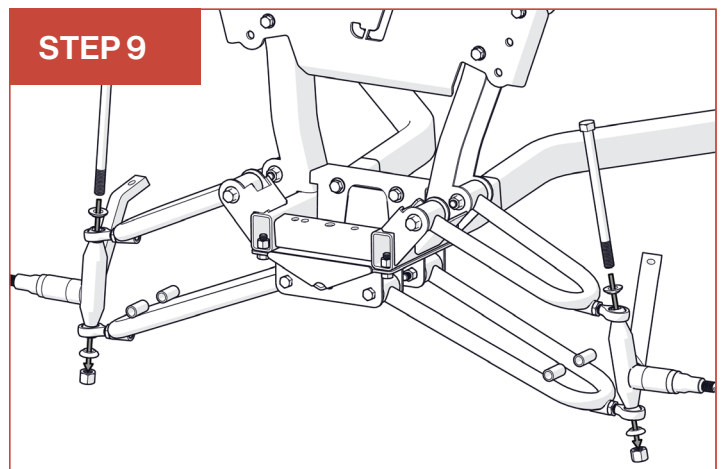
**NOTE:** Lower a-arms are not side specific.



$\frac{3}{4}$ " WRENCH,  $\frac{3}{4}$ " 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  $\frac{1}{2}$ " x 7.5" hex bolt and one  $\frac{1}{2}$ " lock nut.

Repeat with the passenger's side.

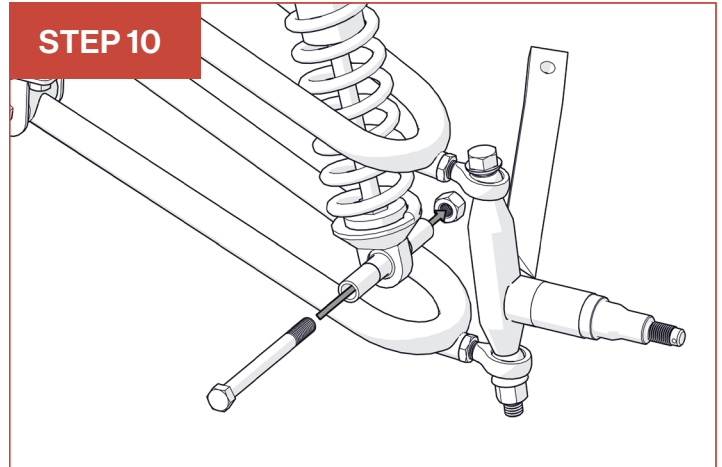


# Assembly



$\frac{5}{8}$ " WRENCH,  $\frac{5}{8}$ " 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  $\frac{7}{16}$ " x 5" hex bolt, and one  $\frac{7}{16}$ " lock nut.



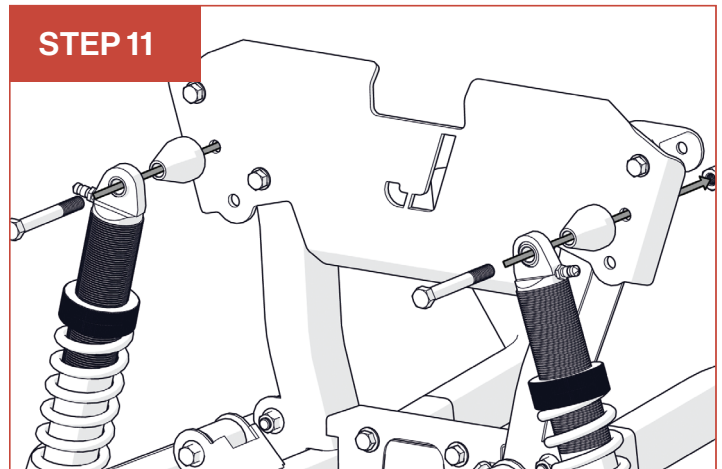
STEP 10



$\frac{5}{8}$ " WRENCH,  $\frac{5}{8}$ " SOCKET, RATCHET

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

**NOTE:** Orient shock with valve facing out.

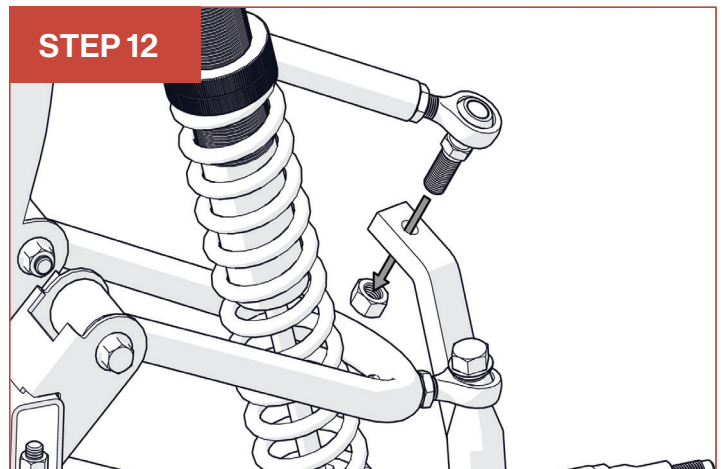


STEP 11



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 12

# Assembly

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

Install new wheels and tires.

Reccomend 22" x 11" x 10" or 23" x 10.5" x 12" tires on 3" x 5" offset wheel for best fit.

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



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.



14mm WRENCH, 14mm SOCKET, RATCHET

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

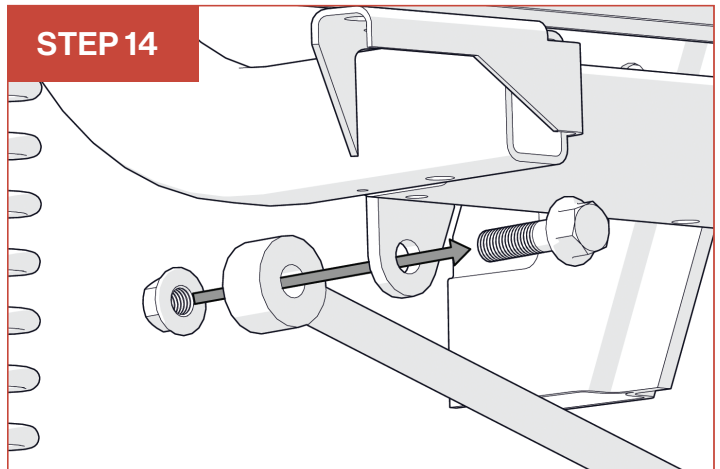
Remove the rear wheels.

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

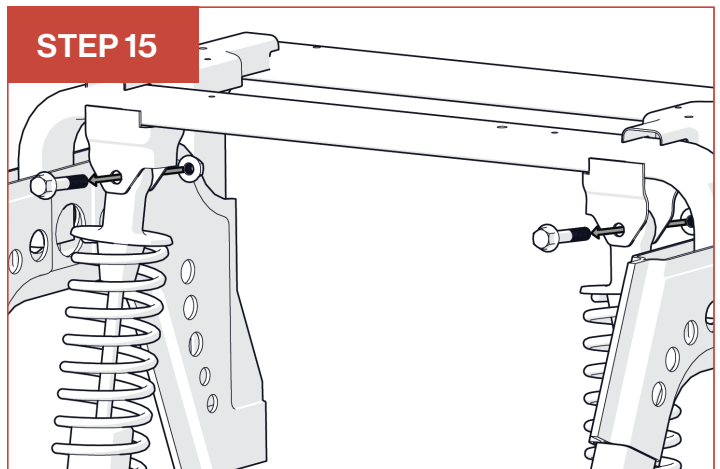
## STEP 13



## STEP 14



## STEP 15



# Assembly

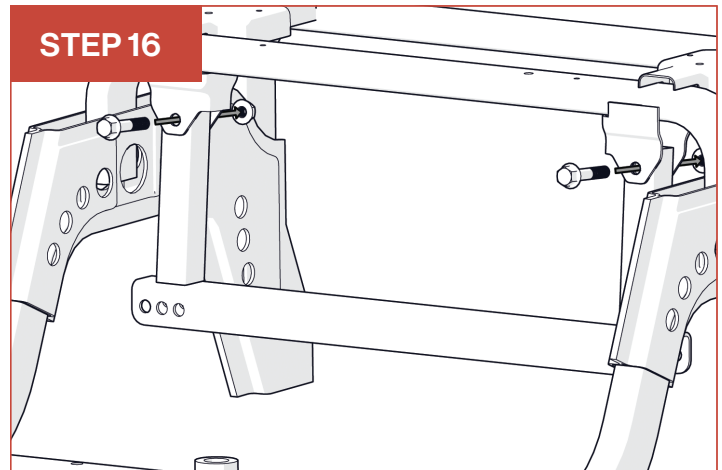


$\frac{9}{16}$ " WRENCH,  $\frac{9}{16}$ " SOCKET, RATCHET

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  $\frac{3}{8}$ " x 2" hex bolts and two  $\frac{3}{8}$ " lock nuts.

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

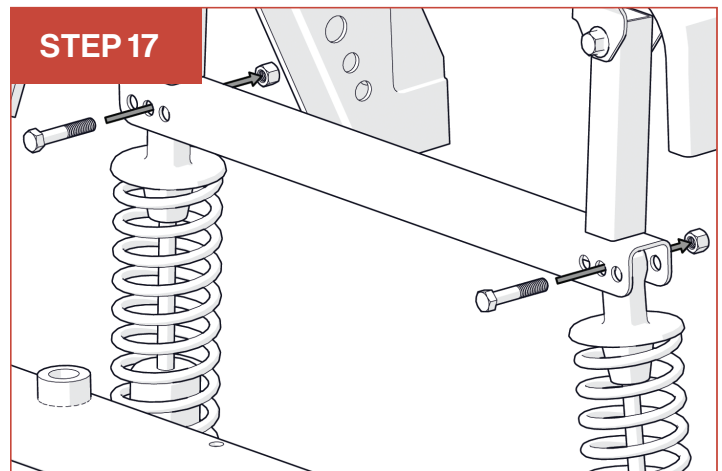


STEP 16



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.

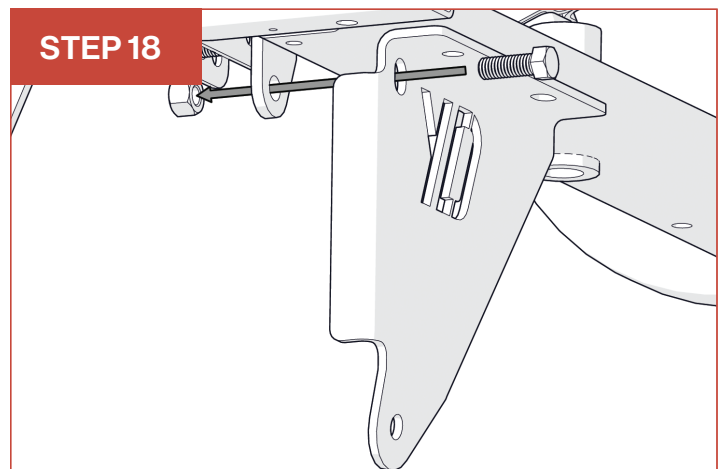


STEP 17



$\frac{5}{8}$ " WRENCH,  $\frac{5}{8}$ " SOCKET, RATCHET

Install new track bar bracket to stock track bar mounting location using one  $\frac{7}{16}$ " x 2" hex bolt and one  $\frac{7}{16}$ " lock nut.



STEP 18

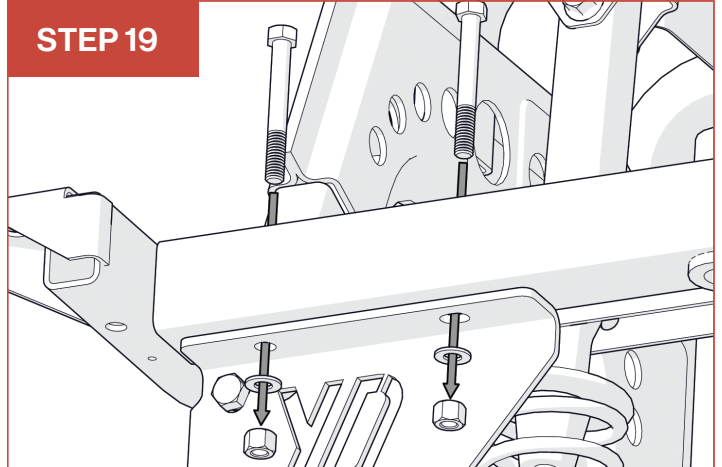
# Assembly



$\frac{9}{16}$ " WRENCH,  $\frac{9}{16}$ " 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  $\frac{3}{8}$ " x 3" hex bolts, two  $\frac{3}{8}$ " flat washers, and two  $\frac{3}{8}$ " lock nuts.

## STEP 19

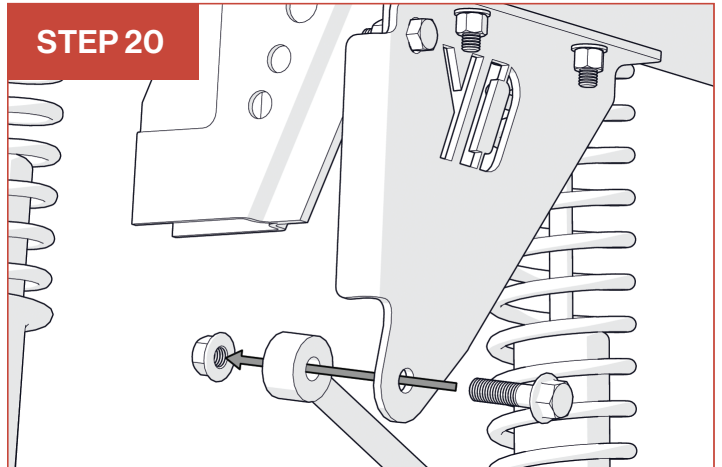


17mm WRENCH, 17mm SOCKET, RATCHET

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

Make sure all hardware is tight.

## STEP 20



## 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.

# Assembly



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.

Reinstall the bag well and seat kit, if equipped, using the hardware retained from [Step 14](#).

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 22



## STEP 23



## STEP 24



# Assembly

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.

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

E-Z-GO®, TXT®, RXV® and S4® are registered trademarks of Textron Innovations, Inc. Club Car®, Precedent®, DS®, Onward® and Tempo® are registered trademarks of Ingersoll Rand, Inc. Yamaha®, Yamaha® Drive®, Drive2®, G-14®, G-16®, G-19®, G-22® and G-29® are registered trademarks of Yamaha Golf-Car Company. Any reference to Club Car®, E-Z-GO®, or Yamaha® or their associated trademarks, word marks, and products are only for purposes of identifying golf carts with which this MadJax product is compatible. MadJax products are aftermarket parts and are not original equipment parts. MadJax is not connected to, affiliated with, sponsored by, or endorsed by either Textron Innovations, Inc., Ingersoll Rand, Inc., Yamaha Golf Cart Company, or any of their parent or subsidiary companies.



## INDEMNIFICATION & INSURANCE AGREEMENT

High Performance Enhancement Kit purchaser assumes sole and entire responsibility for, and shall indemnify and save harmless Nivel LLC, from any and all claim, liability, responsibility, and persons or property that may be sustained in connection with the use of any product before or after purchase, including but not limited to high performance enhancement lift kits. The High Performance Enhancement Kit purchaser also shall indemnify Nivel LLC harmless with respect to any and all liability that may be Incurred.

Golf Cars are recommended for use only by those aged 16 and older. Golf Cars can be especially hazardous to operate. Always remember that riding and alcohol/drugs don't mix. Never ride on public roads. Never carry more than two passengers (except shuttles and trams). Never engage in stunt driving. Avoid excessive speeds and be particularly careful on difficult terrain. Nivel LLC reserves the right, at any time, to discontinue or change specifications, prices, designs, features, models, or equipment without notice and without incurring any obligation.