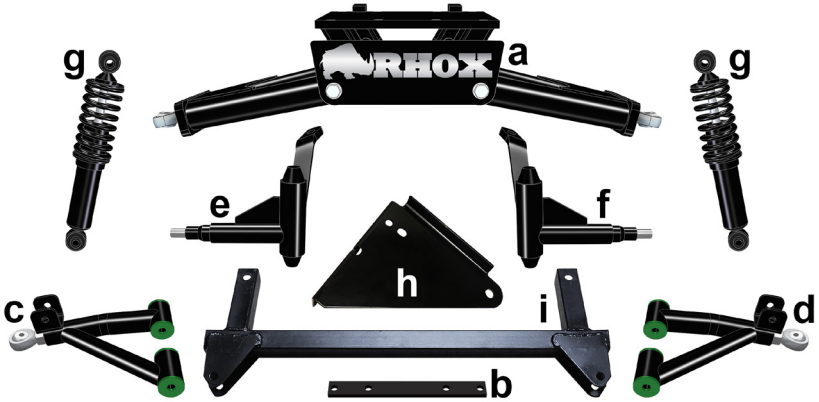
Rugged parts for your ride.

LIFT-555

6” A-Arm Lift Kit
Yamaha Drive2 Electric and Non-EFI Gas; Drive Gas and Electric 07-16
Installation Instructions

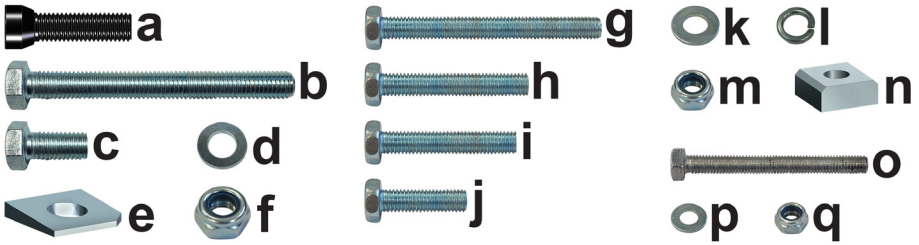


Contents of Kit		QTY
a	A-Arm Assembly	1
b	A-Arm Assembly Mounting Plate	1
c	Upper A-Arm, Passeger Side	1
d	Upper A-Arm, Driver Side	1
e	Spindle, Passenger Side	1
f	Spindle, Driver Side	1
g	Front Shocks	2
h	Connecting Rod Bracket	1
i	Rear U-Bracket	1
j	Box of Hardware (Contents on Next Page)	1

Caution: Please read through the instructions carefully. Installer is responsible for damage if instructions are not followed properly. Extra installers will be helpful in some parts of the installation. Please refer to all torqueing specifications on page 2 for installation.

Note: You must install larger tires and wheels once the cart is lifted. Stock wheels will not work. We recommend a 22” tire with 10” or larger wheel with a minimum of a 1” offset for use on the RHOX Lift Kit.

LIFT-555 Hardware Kit

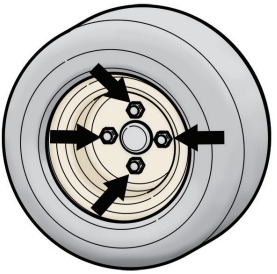


Contents		QTY	Torque Requirements
a	1/2”-20 x 40 Socket Cap Screws	4	64 ft. lbs.
b	M12-1.75 x 110 Hex Head Bolts	4	69 ft. lbs.
c	M12-1.75 x 25 Hex Head Bolts	1	69 ft. lbs.
d	M12 Flat Washers	6	-
e	M12 Square Tapered Washers	4	-
f	M12 Nylock Nuts	5	-
g	M10-1.5 x 90 Hex Head Bolts	2	38.25 ft. lbs.
h	M10-1.5 x 60 Hex Head Bolts	2	38.25 ft. lbs.
i	M10-1.5 x 55 Hex Head Bolts	2	38.25 ft. lbs.
j	M10-1.5 x 35 Hex Head Bolts	2	38.25 ft. lbs.
k	M10 Flat Washers	14	-
l	M10 Lock Washers	2	-
m	M10 Nylock Nuts	6	-
n	M10 Square Nuts	2	-
o	M8-1.25 x 75 Hex Head Bolts	2	22 ft. lbs.
p	M8 Flat Washers	4	-
q	M8 Nylock Nuts	2	-

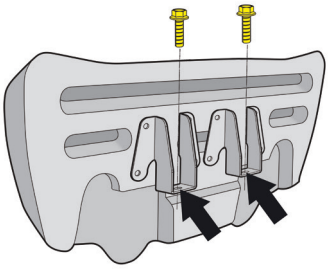
Tools Needed for Installation

- Sockets & Wrenches (10mm, 12mm, 13mm, 14mm, 17mm, 18mm, 19mm and 21mm)
- Hex Bit Socket (3/8”)
- Drill and Drill Bits (1/8” or 3/16”, 13/32”)
- Spade Drill Bit (Drive2 Only): (7/8”)
- Flat Head Screwdriver
- Pliers
- Jack and Jack Stands
- Chock for Wheels
- Rubber Mallet
- Tape Measure
- Safety Glasses

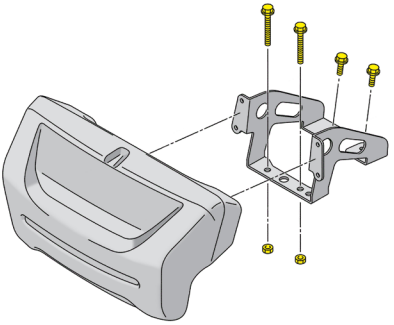
Installation Preparation (Front)



1. Engage parking brake.
2. Turn key OFF.
3. Electric Carts Only: Place Tow/Run Switch in TOW.
4. Chock the back of the rear wheels.
5. Remove the hub caps (if any). Loosen the lug nuts on both of the front wheels but do not remove them.
6. Use a jack to safely lift the front of the cart high enough to accommodate the new tires and wheels. Place (2) jack stands securely under the chassis and remove the jack.
7. Fully remove the (8) front lug nuts, tires and wheels. Discard.
8. Remove the front bumper from chassis. Retain bumper and hardware.

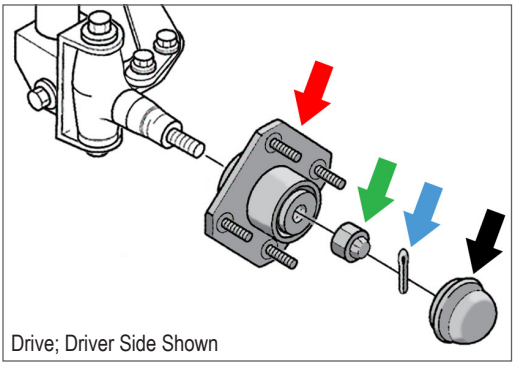


Drive Shown

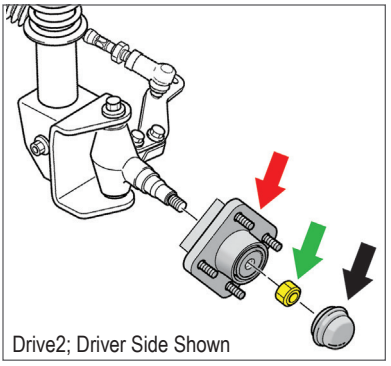


Drive2 Shown

9. Remove dust covers (black arrow), nuts (green arrow), cotter pins (blue, Drive only) and wheel hubs (red arrow) from both spindles. Retain all components.



Drive; Driver Side Shown



Drive2; Driver Side Shown

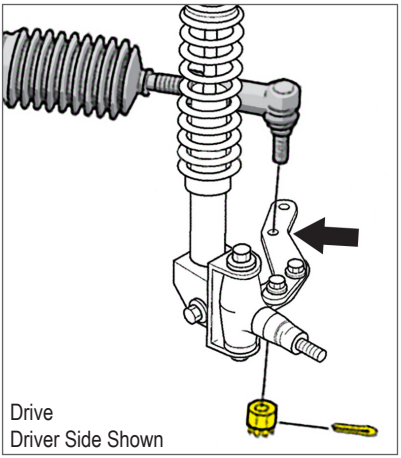
10. Disconnect the tie rod ends from the knuckle arms. Retain hardware.

11. Disconnect the spindle and knuckle arms from the shocks (black arrow). Discard.

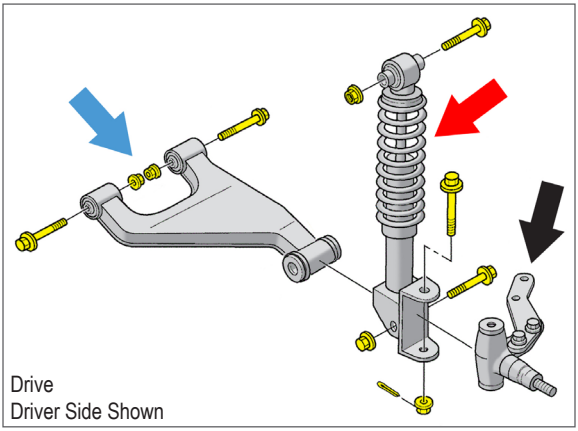
12. Remove the shocks and discard (red arrow). Retain hardware.

13. Remove the A-arm and discard (blue arrow). Retain hardware.

    NOTE: Parts removed in Steps 11-13 can be removed at once to save time. Retain hardware from Steps 12-13.



Drive
Driver Side Shown



Drive
Driver Side Shown

Front Suspension Installation

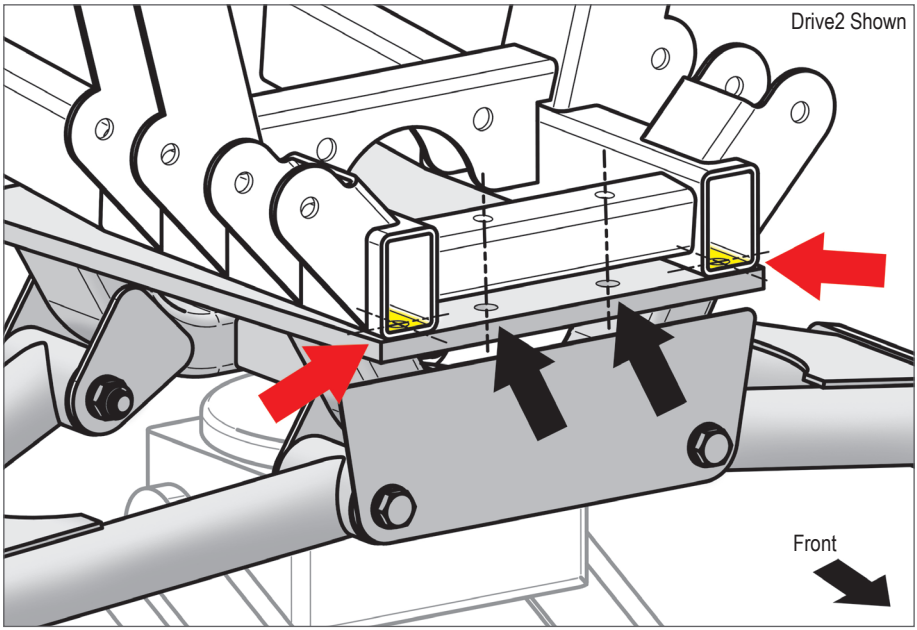
NOTE: Please refer to page 2 for torquing specifications for included hardware. Please refer to vehicle's maintenance manual for torquing specifications on reused hardware.

1. Using a jack for support, place the front A-arm assembly under the front frame rails.

   Drive Only: Adjust the position of the A-arm assembly so it is flush with the front of the frame rails and centered between the driver and passenger sides of the cart. Clamp the front of the assembly to the frame making sure the assembly is flush with the front of the frame rails and centered. Clamp not shown for visibility purposes.

   Drive2 Only: Align the two bumper holes on the frame up with the two holes on the A-arm assembly (black arrows). Put (2) M8 x 75 Hex Head Bolts through the holes. Clamp the front of the assembly to the frame making sure the assembly is straight and bumper mounting holes are aligned. Clamp not shown for visibility purposes.

   All Carts: Using the outer holes on the A-arm assembly as a guide, mark two hole locations on the bottom of the front frame rails (red arrows).



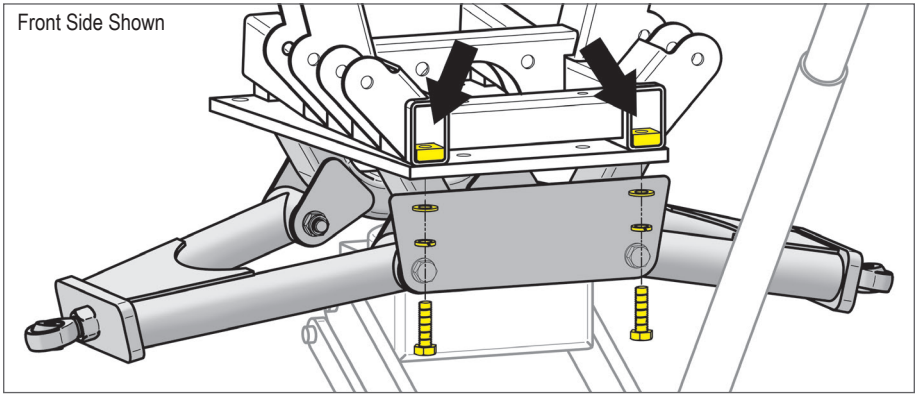
2. Remove the 8mm Hardware, clamp and A-arm assembly from the frame.

3. Using a 13/32” drill bit, drill a hole at each of the marked locations.

   NOTE: **Only drill through the bottom side of the rail**.

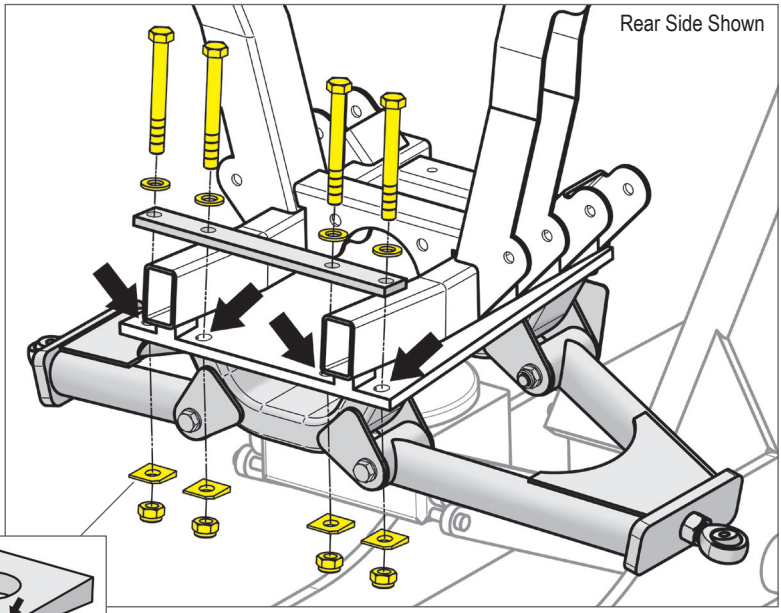
4. Place the front A-arm assembly under the frame using a jack for support.

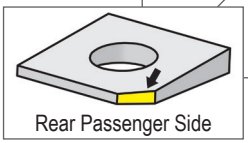
5. Install the front of the A-arm assembly to the newly drilled holes on the frame using (2) M10 x 35 Hex Head Bolts, (2) M10 Lock Washers, (2) M10 Flat Washers and (2) M10 Square Nuts. Hand tighten.



6. Install the rear of the A-arm assembly to the frame using the A-arm assembly mounting plate, (4) M12 x 110 Hex Head Bolts, (4) M12 Flat Washers, (4) M12 Square Tapered Washers and (4) M12 Nylock Nuts. Hand Tighten.

   NOTE: If oriented correctly, the mitered corner on the square tapered washer will face the rear passenger side of the cart.

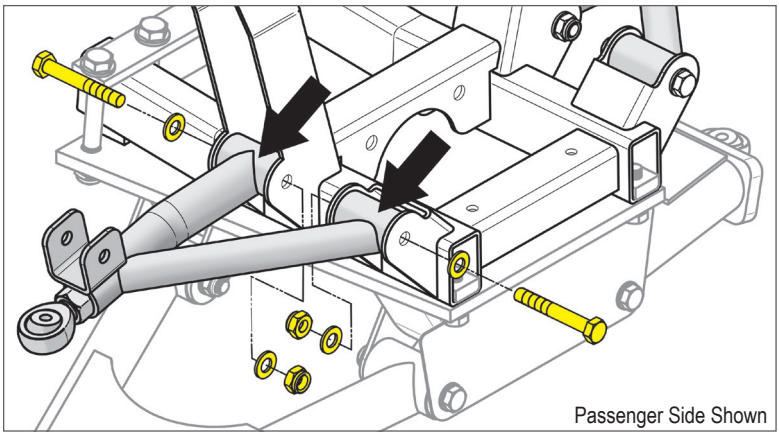




7. Tighten all hardware left loose in Steps 4 and 5 and remove the jack.

   Drive2 Only: Verify bumper hardware can go through the holes. Readjust if needed.

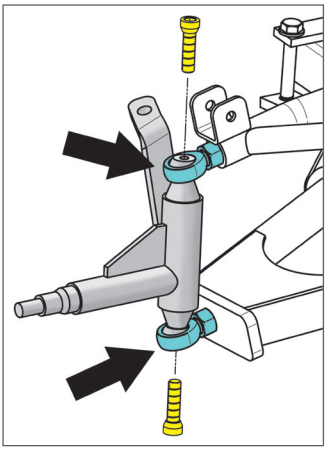
8. Install the new upper A-arms using the Original Hardware.

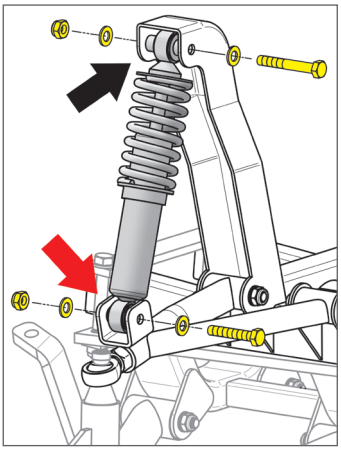


9. Making sure the heim joints (shown in blue) are even on both sides, install the spindles to the A-arms using (4) 1/2”-20 x 40 Socket Cap Screws. Passenger side shown.

10. Install the upper portion of the new shocks to the frame using the Original Hardware (black arrow). Passenger side shown.

11. Install the lower portion of the shocks to the upper A-arms using (2) M10 x 55 Hex Head Bolts, (4) M10 Flat Washers and (2) M10 Nylock Nuts (red arrow). Passenger side shown.

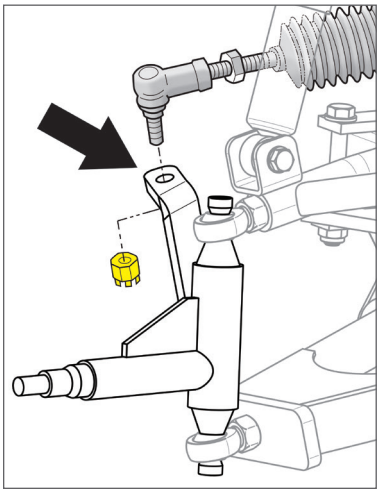


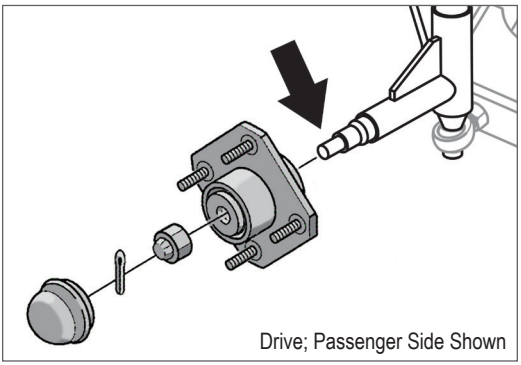


12. Making sure the steering rack is even on both sides, install the tie-rod ends to the new spindles using the Original Hardware. Passenger side shown.

13. Tighten any hardware left loose in this section.

14. Install the hubs that were removed on Page 3 to the new spindles using the Original Hardware. Hand tighten. Reinstall the dust covers.





Drive; Passenger Side Shown

15. Install the (2) new front tires and wheels. The stock tires and wheels will not work on the newly lifted cart. Fully tighten the lug nuts on both wheels.

    NOTE: It is recommended to use at least a 10” wheel with a 1” offset.

16. Once the tires and wheels are fully secure, place the jack under the cart. Remove the jack stands and lower the cart. Remove the chocks behind the rear wheels.

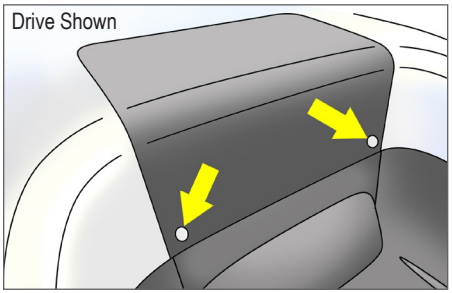
    NOTE: The front bumper can remain off until the toe and camber adjustments are made at the end of the installation.

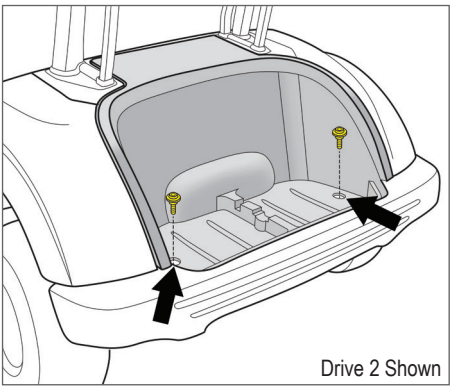
Installation Preparation (Rear)

Safety Note: Proper eye and mouth protection should be worn during this section to protect the installer from falling debris when working under the cart.

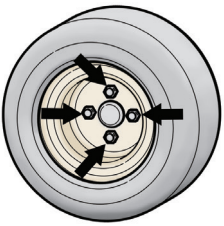
Note on Images: Some parts may not be shown for visibility purposes.

1. Engage parking brake.
2. Turn key OFF.
3. Electric Carts Only: Place Tow/Run Switch in TOW.
4. Chock the front of the front wheels.
5. Remove the rear bagwell cover (Drive2) or access panel (Drive). Retain cover or access panel and hardware.





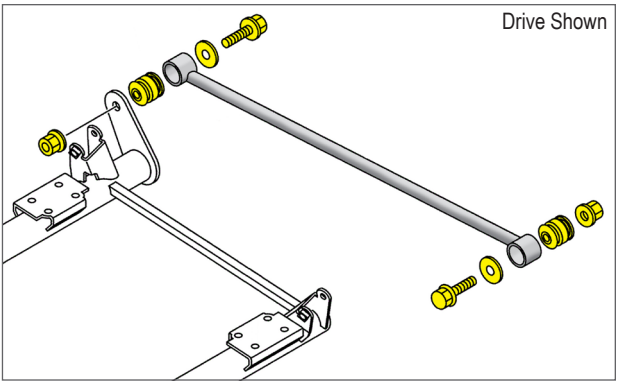
6. Remove the hub caps (if any). Loosen the lug nuts on both rear wheels but do not remove them.



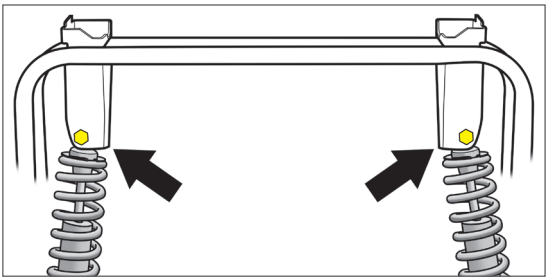
7. Place a jack securely under the rear axle. Safely lift the rear end of the cart enough to accommodate the additional height of the larger tires and wheels.
8. Place jack stands under the chassis on both sides of the cart to stabilize it. DO NOT remove the jack.

9. Fully remove the (8) rear lug nuts, tires and wheels. Discard.

10. Disconnect the rear connecting rod. Retain rod and hardware.



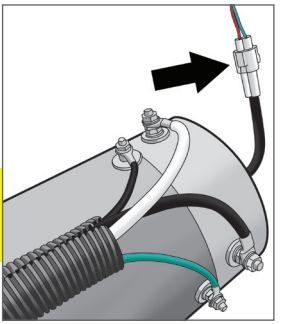
11. Disconnect the top of the rear shocks from the shock mounts. Retain hardware. Drive shown.



12. Disconnect any wires or cables attached to the motor that could be damaged when lowering the rear suspension.

13. With the cart in TOW, slowly and carefully lower the rear axle.

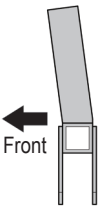
NOTE: The electrical system could be damaged if the cart is NOT in the Tow position and a shock contacts the motor.

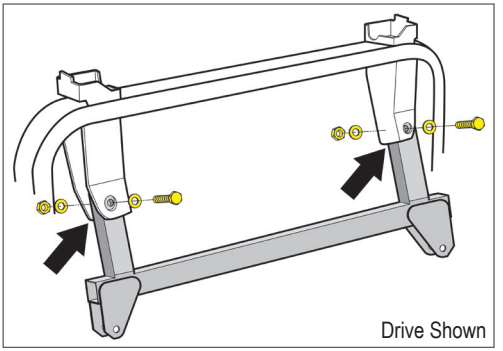


Rear Suspension Installation

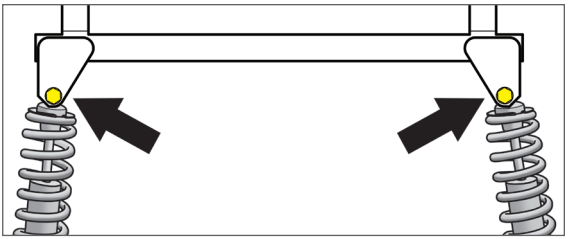
1. Identify the rear U-bracket. When oriented correctly, the bracket will be angled towards the front of the cart.

2. Slide the U-bracket into the original shock mounts. Secure the bracket with (2) 10mm x 60 Hex Head Bolts, (4) 10mm Flat Washers and (2) 10mm Nylock Nuts.





3. Slowly raise the rear axle until the top of the shocks reach the new shock mounts. Install the top of the shocks to the U-bracket using the Original Hardware.

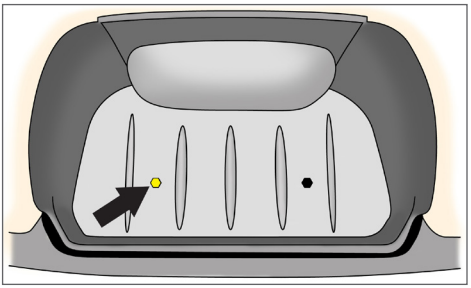


4. Reroute and reconnect any wires or cables removed from the motor. Use wire ties to secure them if needed.

5. Drive Only: Locate the (2) bolts in the bagwell area. Remove the bolt on the driver side (shown).

6. Drive2 Only: Locate the empty hole on the underside of the driver side frame.

7. Using the empty bolt hole as a guide, drill a 1/8”-3/16” pilot hole completely through the frame. Then drill a 13/32” hole through the pilot hole.

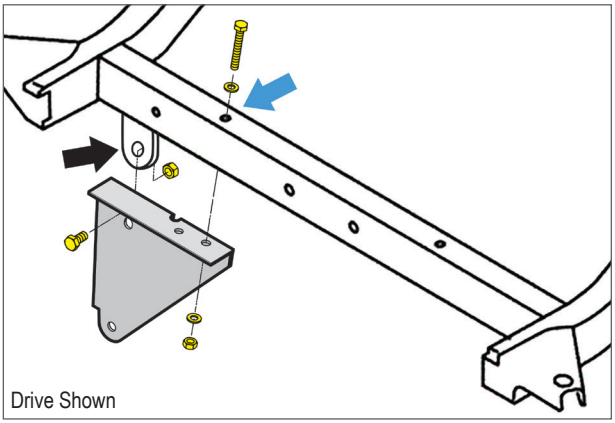


8. Drive2 Only: Place the bagwell cover back on the cart. Once it is in position, use the newly drilled hole as a guide and make a mark on the underside of the bagwell cover. Remove the bagwell cover from the cart and drill the marked location with a 7/8” spade drill bit for a clearance hole.

9. Place the connecting rod bracket on the underside of the frame and behind the connecting rod mounting tab.

10. Fasten the bracket to the mounting tab using (1) 12mm x 25 Hex Head Bolt and (1) Nylock Nut (black arrow). Do not tighten.

11. Fasten the bracket to the frame using (1) 10mm x 90 Hex Head Bolt, (2) 10mm Flat Washers and (1) 10mm Nylock Nut (blue arrow).



NOTE: For matching bolt heads in the bagwell area, a second set of 10mm hardware is included in the kit for the passenger side if desired. This will not affect the lift kit.

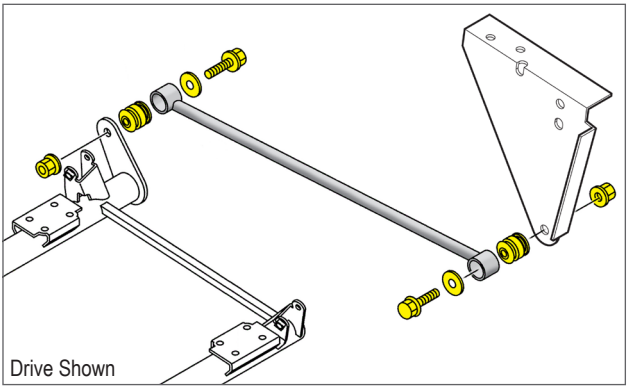
12. Tighten hardware on the connecting rod bracket.

13. Fasten the connecting rod to the new bracket and the original mounting tab using the Original Hardware.

14. Reinstall the access panel and bagwell cover using the Original Hardware.

15. Tighten any hardware.

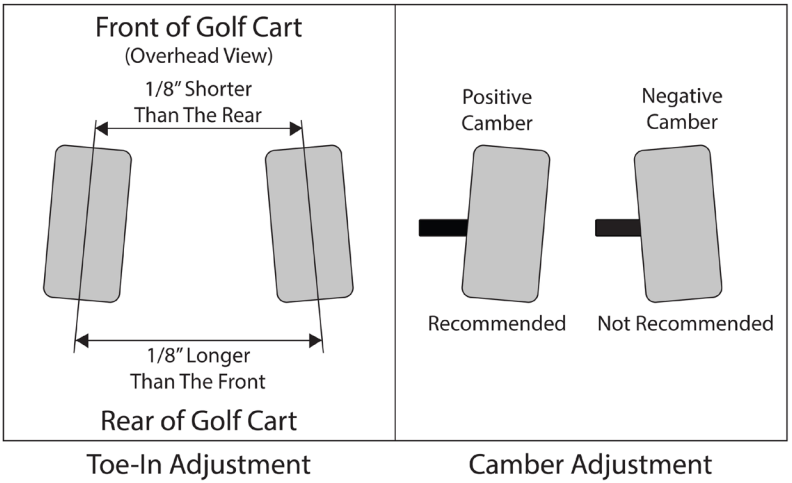
16. If the cart is not high enough to accommodate the larger tires and wheels, raise it to the correct height with the jack.



17. Install the (2) new rear tires/wheels on the rear hubs.

18. Remove the jack stands and lower the cart. Remove the Jack.

Toe and Camber Adjustments



Toe-In Adjustment Camber Adjustment

Toe Adjustments

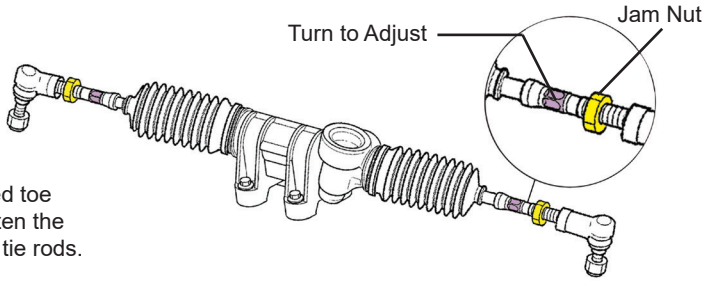
1. Drive forward and back 20-40 feet to check the toe before making adjustments. Only make adjustments if needed.

   NOTE: For stability, an 1/8" toe-in is recommended. This will level out when the cart is loaded.

2. Calculate the toe of the front tires by measuring the center-to-center distance of the front of the front tires versus the center-to-center distance of the back of the front tires. The front measurement should be 1/8" shorter than the rear.

3. Adjust the toe by loosening the jam nut on the tie rod. Lengthen or shorten the tie rod by turning the hex shaped rod adjustment. Adjustments should be made evenly on both sides.

   NOTE: Shortening the tie rods increases the toe, lengthening decreases it.



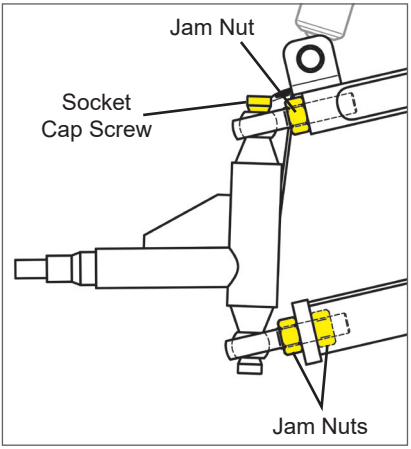
4. Once the desired toe is reached, tighten the jam nuts on the tie rods.

Camber Adjustments

1. To adjust the camber, locate the (2) jam nuts on each of the lower heim joints of the spindles. Turn the nuts to increase or decrease the camber. Adjustments should be made evenly on both sides.

   NOTE: If the correct camber cannot be reached by adjusting the lower heim joints, the top heim joints can be adjusted by removing the socket cap screws from the upper portion of the spindles and rotating the heim joints. Adjustments should be evenly on both sides.

   Rotating the ends of the upper A-arms counterclockwise (away from the center of the cart) will increase camber, rotating them clockwise (inward) will decrease the camber.



2. Once the desired camber has been reached, tighten the jam nuts on the heim joints and any socket head cap screws left loose.

After Adjustments

1. Tighten all hardware.

2. Reinstall the front bumper using the Original Hardware (Drive) and (2) M8 x 75 Hex Head Bolts, (4) M8 Flat Washers and (2) M8 Nylock Nuts (Drive2).

This completes the installation of your RHOX A-Arm Lift Kit. Please enjoy safely!
Scan QR code or use the link below to view the installation video.
https://www.youtube.com/user/golfcartinstructions