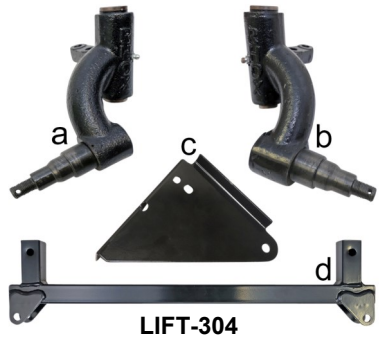
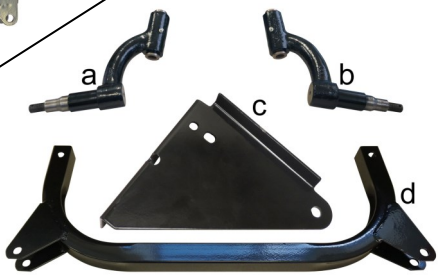
LIFT-304 (3”) and LIFT-104 (6”)

Drop Spindle Lift Kits
Yamaha G22, Gas or Electric
Installation Instructions



LIFT-304



LIFT-104

Contents of LIFT-304/104 Yamaha G22 Lift Kit:

a	(1 ea.) Passenger Side Spindle
b	(1 ea.) Driver Side Spindle
c	(1 ea.) Connecting Rod Bracket
d	(1 ea.) Rear U-Bracket
e	(1 ea.) Bag of Hardware (Contents on Next Page)
f	(1 ea.) Instructions

Caution: Please read through the instructions carefully. Installer is responsible for damage if instructions are not followed properly. Look behind each drill or cut location BEFORE YOU DRILL OR CUT. Installer is responsible for damage (i.e. drilling/cutting into a wiring harness, battery, fuel tank etc.). 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 a minimum of a 10” offset wheel for use on the RHOX Lift Kit.

Contents of LIFT-304 / LIFT-104 Hardware Kit:

ITEM	QTY.	DESCRIPTION	TORQUE REQUIREMENTS
a.	1 ea.	12mm x 25 Hex Head Bolt	69.00 ft. lbs.
b.	1 ea.	12mm Nylock Nut	-
c.	2 ea.	10mm x 70 Hex Head Bolts	38.25 ft. lbs.
d.	2 ea.	10mm x 60 Hex Head Bolts	38.25 ft. lbs.
e.	4 ea.	10mm Nylock Nuts	-
f.	8 ea.	10mm Flat Washers	-

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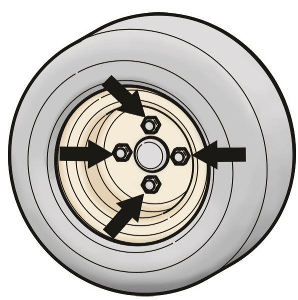
Tools Needed For Installation

- Sockets and Open Ended Wrenches:13mm, 14mm, 16mm, 17mm, 18mm, 19mm and 21mm
- Flat Screwdriver
- Pliers
- Jack and Jack Stands
- Chock for Wheels
- Rubber Mallet

NOTE: Body was removed for visibility purposes in the photos. These lift kits can be installed with the body installed. LIFT-104 is pictured throughout the instructions. The same instructions apply to LIFT-304.

Installation Preparation (Front of the Cart)

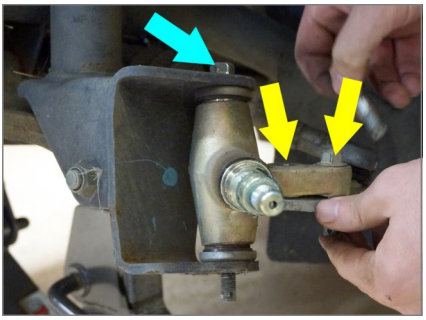
1. Engage the parking brake and turn the key OFF.
2. Place Tow/Run Switch in TOW if equipped.
3. Chock the back of the rear wheels.
4. Remove the hub caps (if any). Loosen the lug nuts on both front wheels but do not remove them.
5. Using a jack, safely lift the front end of the cart enough to accommodate the additional height of the larger tires and wheels.
6. Place jack stands securely under the chassis and remove jack.
7. Fully remove the (8) front lug nuts, front tires and wheels. Discard the tires and wheels as they will not be reused.



8. Remove the dust caps from the hubs. Remove the hubs from the spindles. Retain dust caps, hubs and hardware.

9. Disconnect the steering knuckles from the spindles by removing the safety pins, nuts and bolts (yellow arrow). Retain hardware.

10. Remove the spindles from the lower portion of the shocks by removing the safety pins, nuts and bolts (blue arrow). Retain hardware, thrust covers and spacers. Discard spindles.

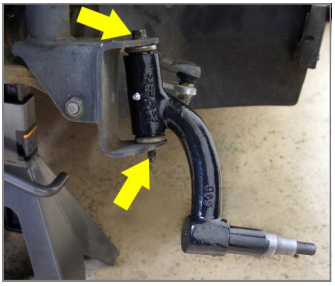


Front Suspension Installation

NOTE: Please refer to vehicle's maintenance manual for torqueing specifications on reused hardware.

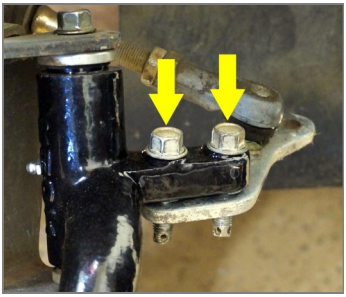
1. Insert the Original Spacers into the new spindles. Place the Original Thrust Covers over the bushings on the new spindles.

2. Install the new spindles to the spindle mounting area on the shocks using the Original Hardware. Driver side is shown.



3. Attach the steering knuckles to the spindles using the Original Hardware.

4. Install the hubs onto the new spindles using the Original Hardware. Reinstall the dust covers.



5. Install the (2) front tires. 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 an offset. LIFT-304 can fit 20" tires max. LIFT-104 can fit 23" tires max.

6. Once the tire and wheels are fully secure, place the jack under the cart. Remove jack stands and lower the cart safely to the ground. Remove the chocks behind the rear wheels.

Installation Preparation (Rear of the Cart)

1. Engage the parking brake and turn the key OFF.

2. Place Tow/Run Switch in TOW if equipped.

3. Chock the front of the front wheels.

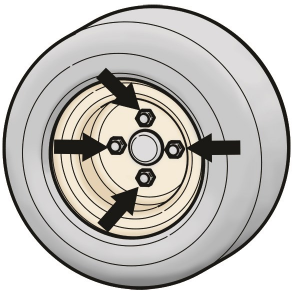
4. Remove the rear access panel by removing the rivets. Retain rivets.

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

6. 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.

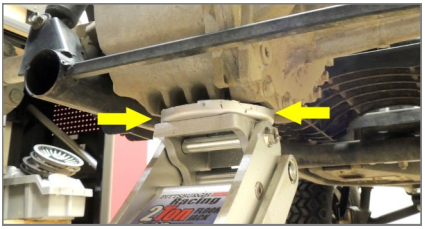
7. Place jack stands under the chassis on both sides of the cart to stabilize it. Lower the jack but do not remove it.

8. Fully remove the (8) rear lug nuts, rear tires and wheels. Discard the tires and wheels as they will not be reused.

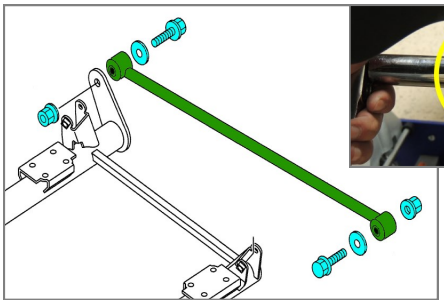


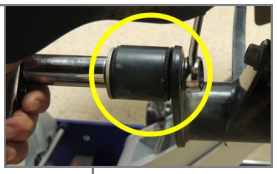
Rear Suspension Installation

1. Carefully raise the jack to support the rear axle.

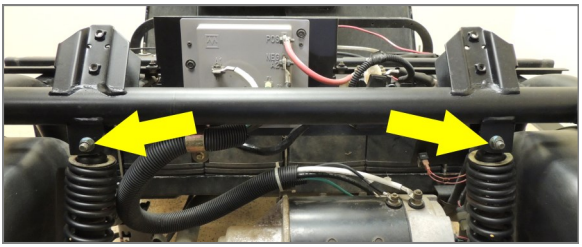


2. Disconnect the rear connecting rod by removing the (2) bolts, nuts and washers. Retain rod and hardware.





3. Disconnect the top of the rear shocks from the shock mounts. Retain hardware.



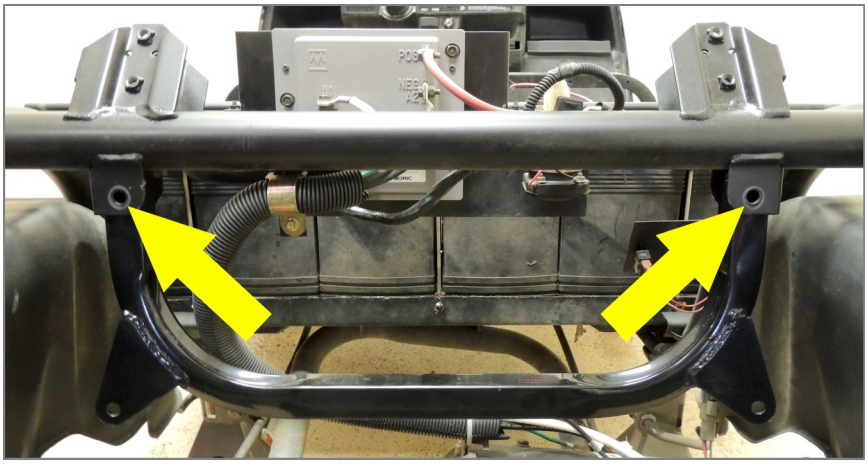
4. Disconnect the pin connector attached to the motor to eliminate damage when lowering the rear suspension (electric carts only).

5. With the cart in the Tow position, slowly and carefully lower the rear axle.

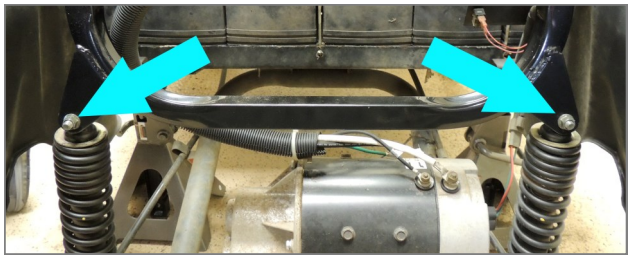
Safety Note: The cart's electrical system could be damaged if the cart is NOT in the Tow position and a shock contacts the motor (Electric carts only).

6. Slide the U-bracket into the original shock mounts.

7. Install the U-bracket to the shock mounts using (2) 10mm x 60 Hex Head Bolts, (4) 10mm Flat Washers and (2) 10mm Nylock Nuts.



8. Slowly raise the rear axle until the top of the shocks reach the new shock mounts. Install the top of the shocks to the shock mounts using the Original Hardware.



9. Reroute and reconnect the wire disconnected in step 4. Use a wire tie to secure it if needed.

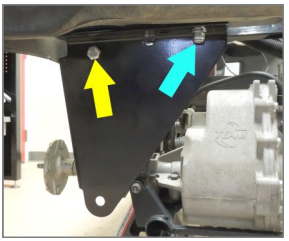
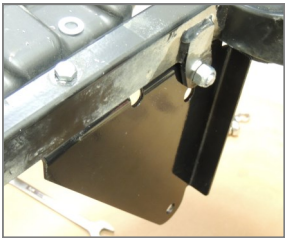
10. Locate the two bolts in the bagwell area. Remove the bolt on the driver side.

11. Orient the connecting rod bracket so the rounded corner is facing downward and is closer to the driver side of the cart.

12. Place the connecting rod bracket on the underside of the chassis and behind the original connecting rod mounting tab.

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

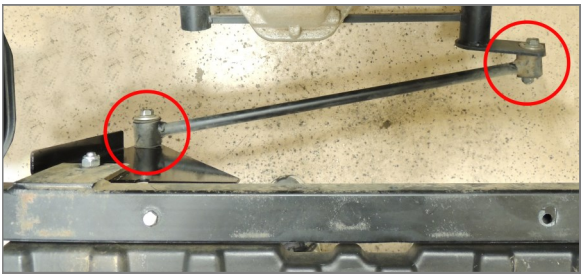
14. Install the bracket to the chassis using (1) 10mm x 70 Hex Head Bolt, (2) 10mm Flat Washers & (1) 10mm Nylock Nut (blue arrow).

15. Tighten both sets of hardware from steps 13 and 14.

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

16. Reinstall the connecting rod to the new bracket and the original mounting tab using the Original Hardware.



17. Tighten any hardware left loose in this section.

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

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

20. Remove the jack stands and lower the cart.

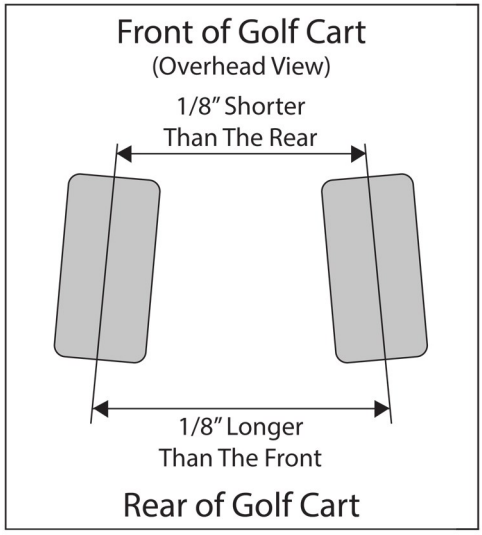
21. Remove the jack.

Adjust the Toe

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.



Toe-In Adjustment

3. Adjust the toe by loosening the jam nut then lengthen or shorten the tie rod by turning the hex shaped rod adjustment. Shortening the tie rods increases the toe-in, lengthening decreases it.

4. Once toe adjustments are finalized and set, tighten all hardware and jam nuts.

This completes the installation of your RHOX Yamaha G22 Lift Kit.
Please enjoy safely!

Scan QR code or use the link below to
view the installation video.
https://vimeo.com/user39935056