



INSTALLATION INSTRUCTIONS

Part #16-784

Long Travel Lift Kit for
E-Z-GO® RXV 2014-Up
Electric

Parts Diagram



CALLOUT	ITEM	QTY
A	JAKE'S SUB-FRAME	1
B	TIE ROD EXTENSION	1
C	STEERING EXTENSION	1
D	FRONT HARDWARE KIT	1
E	JAKE'S LONG TRAVEL SHOCKS WITH EXTERNAL RESERVOIR	2
F	PASSENGER SIDE TOP A-ARM	1
G	DRIVER SIDE TOP A-ARM	1
H	PASSENGER SIDE BOTTOM A-ARM	1
I	DRIVER SIDE BOTTOM A-ARM	1

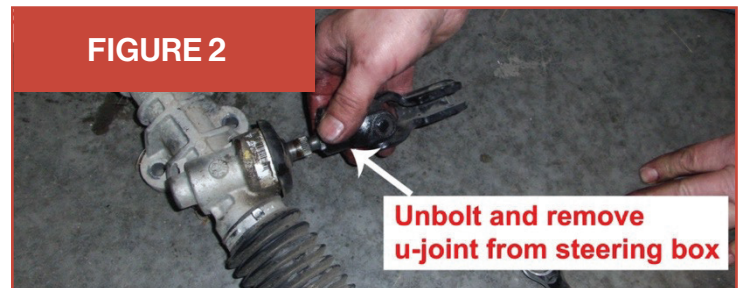
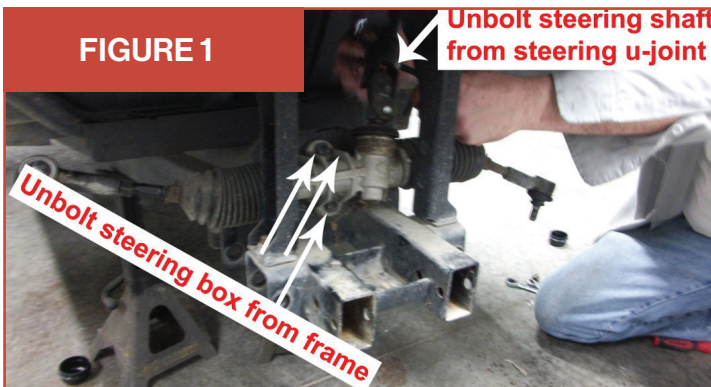
CALLOUT	ITEM	QTY
J	PASSENGER SIDE TOP SHOCK MOUNT	1
K	DRIVER SIDE TOP SHOCK MOUNT	1
L	PASSENGER SIDE SPINDLE	1
M	DRIVER SIDE SPINDLE	1
N	REAR U-BOLTS	2
O	LOCK NUTS AND FLAT WASHERS	8/EA
P	WARNING LABEL	1
Q	CAST REAR RISERS	2



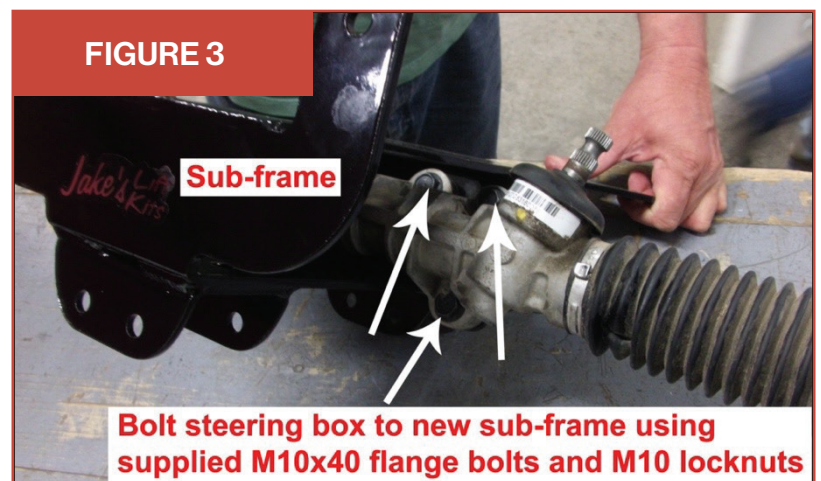
*Always wear appropriate
eye protection!*

Front Assembly

- 1 Place the cart on jack stands.
- 2 Remove the stock front bumper from the cart. Save the bumper and bolts for reinstallation.
- 3 Remove the stock wheel hubs & wheels/tires. Save the stock wheel hubs for reinstallation.
- 4 Remove the tie rod ends from both the driver and passenger side of the spindles.
- 5 Remove the top stock shock bolts from both the driver and passenger side of the cart. This will allow you to drop the stock struts. Remove the bolts that are holding the lower a-arms to the frame of the cart. Now remove the strut assembly from both the driver and passenger side of the cart.
- 6 Unbolt the steering shaft from the steering U-joint and unbolt the steering box from the frame of the cart as shown in **FIGURE 1**.
- 7 Remove the steering box from the cart and remove the stock steering U-joint from the steering box as shown in **FIGURE 2**.

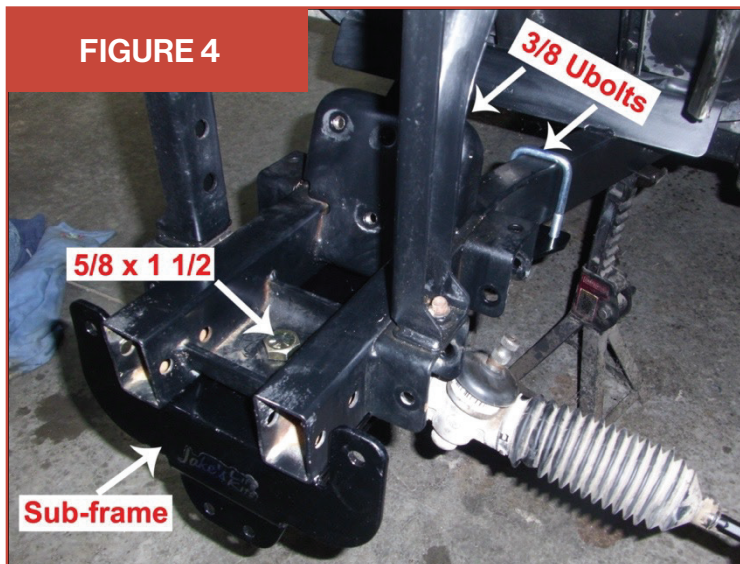


- 8 Using the supplied M10x40 flanged bolts and locknuts bolt the steering box to the new sub-frame as shown in **FIGURE 3**.



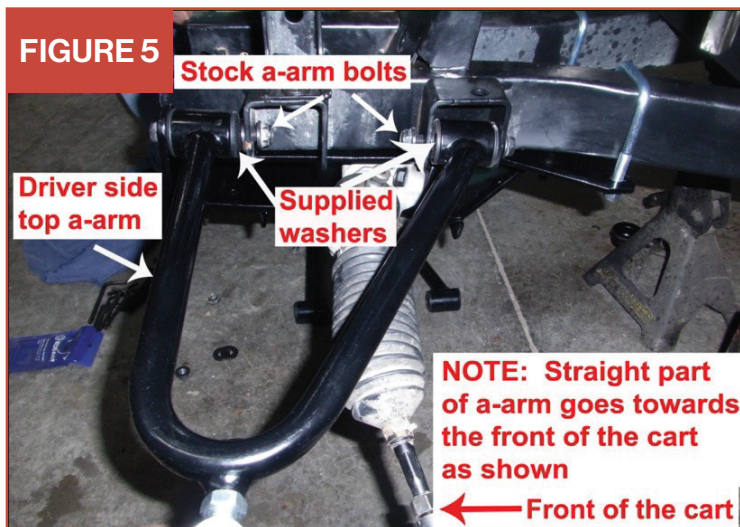
Front Assembly

FIGURE 4



9 Loosely install the sub-frame to the cart using the supplied 5/8 x 1 1/2 bolt and locknut. Loosely install the rear portion of the sub-frame to the stock square tubing frame using the supplied 3/8 u-bolts and locknuts as shown in **FIGURE 4**. DO NOT SECURELY TIGHTEN AT THIS TIME.

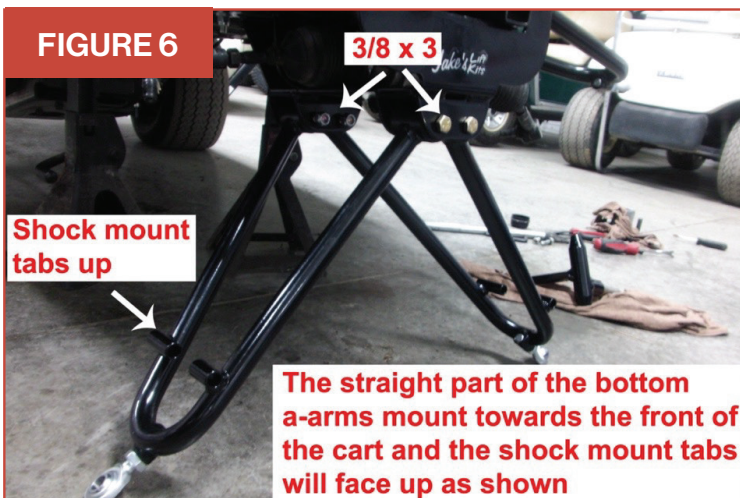
FIGURE 5



10 Using the stock bolts and supplied black metric washers install the new top A-arms to the stock a-arm location as shown in **FIGURE 5**.
NOTE: The a-arms are side specific. The straight tube goes towards the front and the angled tube goes towards the rear of the cart as shown in **FIGURE 5**. Install the black metric washers to the rear side of the front mount and the front side of the rear mount on both the driver and passenger side a-arm as shown in **FIGURE 5**. Securely tighten.

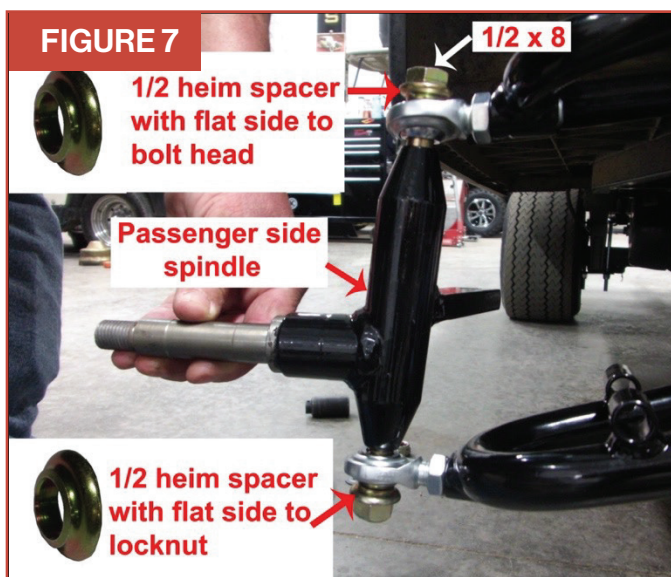
11 Securely tighten the u-bolts that are holding the sub-frame to the frame of the cart at this time. Make sure you evenly tighten both sides of the u-bolts. Securely tighten the 5/8 x 1 1/2 bolt sub-frame bolt at this time.

FIGURE 6



12 Using the supplied 3/8 x 3 bolts and locknuts install the bottom a-arms to the sub-frame as shown in **FIGURE 6**. **NOTE:** The bottom a-arms are side specific. The straight part of the a-arm mounts to the front of the cart and the angled part of the a-arm mounts towards the rear of the cart. The shock mount tabs on the a-arms must face up as shown in **FIGURE 6**.

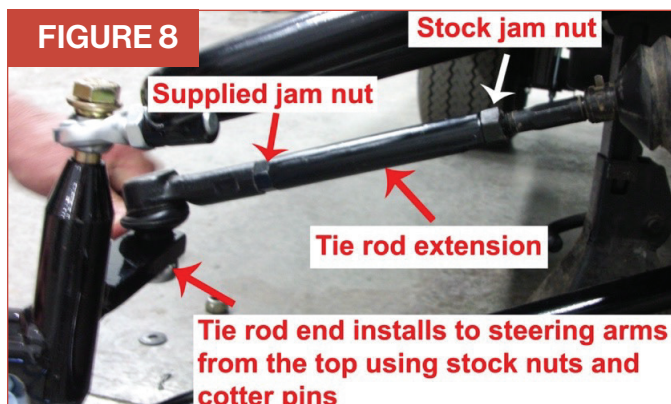
Front Assembly



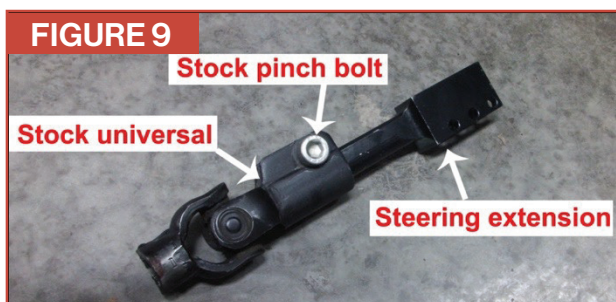
- 13** Using the 1/2 x 8 bolts, locknuts & heim spacers install the driver and passenger side spindles to the top and bottom a-arms as shown in **FIGURE 7**. **NOTE:** The spindles are side specific. The axle is on the bottom portion of the spindles and the steering arms go towards the rear of the cart and angle towards the center as shown in **FIGURE 7**.

NOTE: Two heim spacers are installed on each driver and passenger side spindle. On the top the heim spacer installs between the bolt and heim swivel joint with the flat side towards the bolt head. On the bottom the heim spacer installs between the locknut and heim swivel joint with the flat side towards the locknut as shown in **FIGURE 7**.

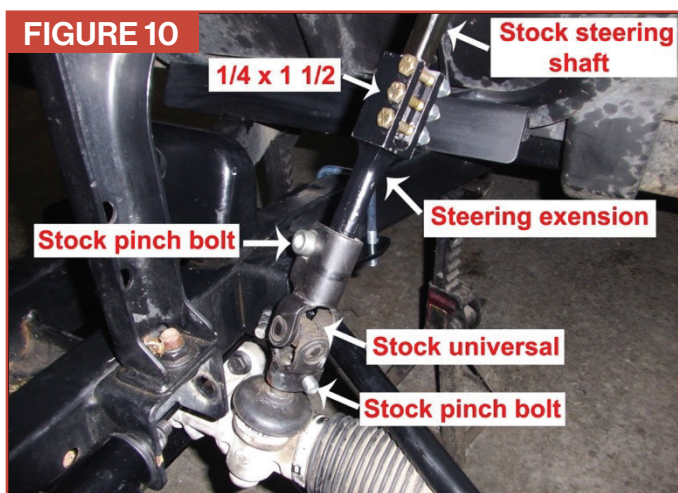
- 14** Push the driver side tie rod end on the steering box completely in towards the center of the cart. Using a colored marker put a mark on the spline of the steering box. Slowly pull out on the driver side tie rod while watching the splines turn on the steering box. Stop when the mark makes 1 1/2 revolutions. This centers your steering. Using the stock hardware install the tie rod end to the driver side steering arm on the spindles.



- 15** Remove the tie rod end from the passenger side tie rod. Leave the stock jam nut on the tie rod. Using the supplied tie rod extension and jam nut install the tie rod extension to the stock tie rod. Reinstall the stock tie rod end to the tie rod extension. Using the stock nut and cotter pin install the tie rod end to the passenger side steering arm as shown in **FIGURE 8**.

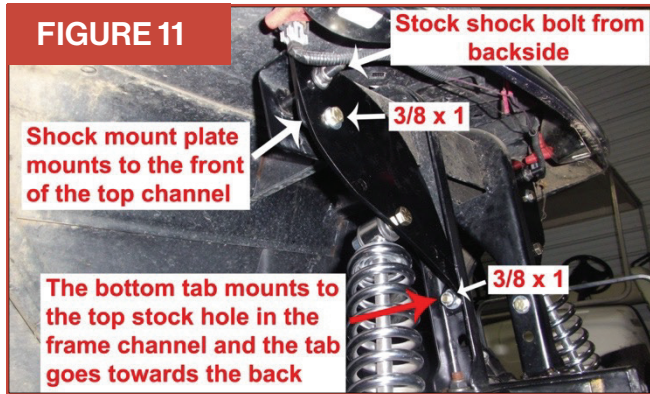


- 16** Install the supplied steering extension to the stock steering universal using the stock pinch bolt as shown in **FIGURE 9**. Slide the universal on the splines of the steering box and the steering extension on to the steering shaft as shown in **FIGURE 10**. **NOTE:** Make sure steering wheel is straight before sliding steering extension on to the steering shaft.



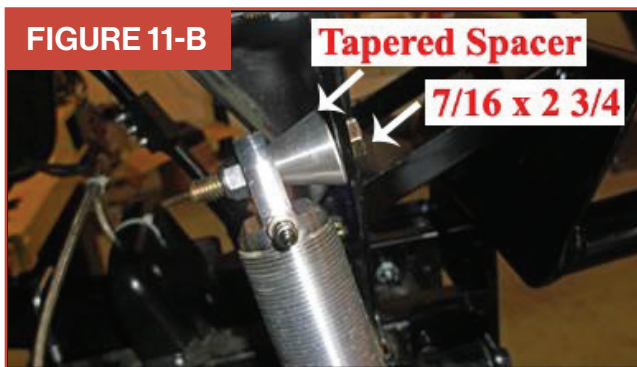
- 17** Using the supplied 1/4 x 1 1/2 bolts, washers, & locknuts securely tighten the steering extension to the steering shaft as shown in **FIGURE 10**.
- 18** Securely tighten the bottom stock pinch bolt to secure the stock universal to the steering box.

Front Assembly



- 19 Using the supplied 3/8 x 1 bolts, washers, & locknuts and stock top shock mount bolt mount the shock mount plates to the frame of the cart as shown in **FIGURE 11**.

NOTE: The shock mount plates are side specific. The tab on the bottom of the shock plates goes towards the rear of the cart. The bottom tab mounts to the upper stock hole in the frame channel as shown in **FIGURE 11**. The top of the shock plates mount to the front of the top channel as shown in **FIGURE 11** and the stock top shock bolt must be installed from the back side of the channel as shown in **FIGURE 11**. Securely tighten.



- 20 Mount the supplied shocks to the shock mount plate using the supplied 7/16 x 2 3/4 bolts, washers, & locknuts as shown in **FIGURE 11-B**.

NOTE: There are 3 different holes for mounting the top of the shocks. The bottom hole will provide the softest ride, the middle hole will provide a stiffer ride and the top hole will provide the stiffest ride. Securely tighten.

NOTE: The larger end of the tapered spacer goes to the shock mount plate and the narrower end goes to the shock as shown.



- 21 Using the supplied 7/16 x 5 1/2 bolts & locknuts and tapered spacers install the bottom of the shocks to the bottom a-arms as shown in **FIGURE 12**. **NOTE:** The tapered spacers go to both the front and rear of the shocks with the taper going away from the shock.

- 22 Reinstall the stock hubs to the new spindles using the stock hardware.

- 23 Install Jake's recommended 23x10.5x12 or 22x11x10 tires on a 3x5 or 3x4 offset wheel.

- 24 Go back through the lift kit and double check all nuts/bolts are securely tightened and all cotter pins are reinstalled.

- 25 Adjust the front end for proper alignment. The toe should be set to 1/8-1/4 in. If you need to adjust the camber of the wheels uninstall the front spindles and adjust the heim ends on the a-arms. When doing this make sure you retighten jam nuts.

Front Assembly

FIGURE 13



Using the supplied template mark each side of the stock bumper and cut for clearance.

- 26** Using the supplied template on the following page, mark both sides of the stock front bumper as shown in **FIGURE 13**. Using a jig saw or band saw cut along the template line. Using the stock hardware reinstall the front bumper.



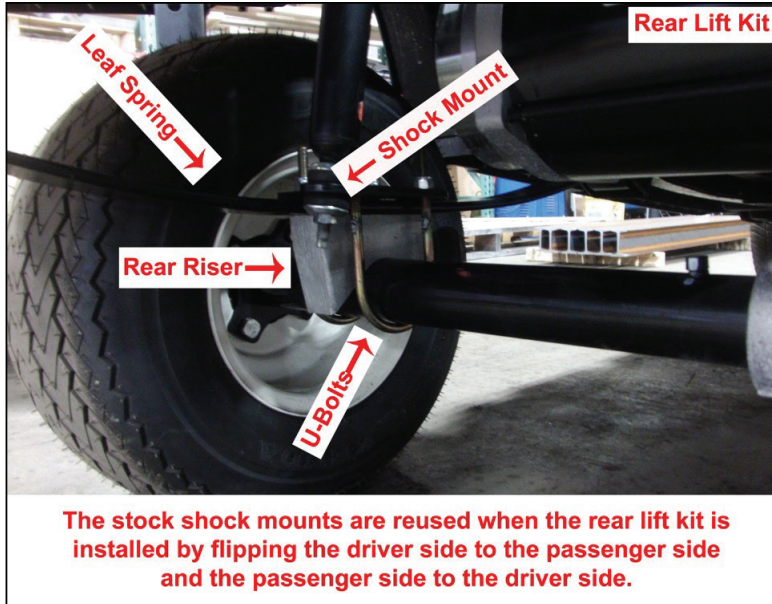
TEMPLATE FOR CUTTING FRONT BUMPER

1) CUT OUT TEMPLATE

2) MARK BUMPER AS SHOWN IN FIGURE 13.



Rear Assembly



- 1 Jack up the rear end of the cart and place jack stands on the frame in front of the springs. You will be installing larger wheels and tires so raise the cart high enough to accommodate the additional height. Place a car jack under the rear-end housing of the car.
- 2 Remove the wheels and tires.
- 3 Unbolt the bottom of the shocks.
- 4 Unbolt the rear leaf springs from the car. Save the hardware and the shock mounts for reinstallation. Using the car jack lower the rear-end of the car. Be sure not to let the rear drop to where it will stretch/brake any wires. **NOTE:** The driver side shock mount will be used on the passenger side of the cart and the passenger side shock mount will be used on the driver side of the cart when the rear lift kit is installed.

- 5 Put the aluminum rear risers on top of the axle as shown. Each rear riser has a hole drilled through a leg. This hole is for the pin on the front of the axle to lock the axle in place. Place the leaf springs on top of the risers as shown with the center pin in the center pin hole of the rear risers. Loosely mount the front of the leaf spring to the stock leaf spring mount using the stock hardware.
- 6 Place the stock driver side shock mount on top of the leaf spring on the passenger side with the shock mount hole facing towards the center and rear of the cart. Place the passenger side shock mount on top of the leaf spring on the driver side with the shock mount hole facing towards the center and rear of the cart as shown. Using the supplied U-bolts, mount the shock plates to the rear risers with the leaf springs sandwiched in between them as shown using the supplied nuts and washers. Make sure you tighten these bolts evenly.
- 7 Attach the bottom of the shocks to shock mounts on the rear shock plates using the stock hardware. Use the car jack to move rear up or down as needed to bolt shocks. Mount the rear leaf springs to the stock rear leaf spring mount using the stock hardware. Securely tighten the front and rear leaf spring mounts.
- 8 Double check all nuts and bolts for tightness.
- 9 Install new wheels and tires. We recommend 23x10.5x12 or 22x11x10 offset wheels/tires. **NOTE:** Your stock wheels and tires will work but are not recommended!
- 10 Included is a warning label which is to be placed on the steering column or another visible area and is to be read by all operators.
- 11 As part of your regular maintenance always check all bolts for tightness.



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