

# MADJAX

## Part # 16-038 6 inch HD A-Arm Lift Kit

(Will fit E-Z-GO® RXV®)



### ITEMS INCLUDED

- 1 Main Suspension
- 2 Spindles
- 2 Rear Shock mounting plates
- 2 rear blocks
- 2 U-bolts
- 2 Upper A-arms
- 2 Shocks

### TOOLS NEEDED

- 15mm Socket
- 17mm Socket
- 25mm Socket
- 15/16 Socket
- 15mm Wrench
- 3/8 Allen Wrench
- 15/16 Wrench



Main Suspension Assembly



Rear Lift Blocks



Rear Shock Mounting Plates



U-Bolts



A-Arms



Shocks



Spindles

## WARNING:

After installing this lift kit, the front wheels must be properly aligned. Failure to properly align the front wheels may result in decreased ability to control the Golf Cart which may result in a rollover or crash.



## WARNING



- To reduce risk of accidents and injury or death -

#### Be Prepared

•Wear seat belt, motorcycle helmet, eye protection and protective gear.

•Keep your body completely inside the vehicle at all times. Keep both hands on the steering wheel. Be sure passenger is seated, belted, and holding onto the handholds.

#### Be Qualified and Responsible

•This vehicle is intended for use only by an operator 16 or older with a valid motor vehicle license.

•Passenger and driver must be able to place both feet flat on the floorboard while seated upright with their backs against the seat backs.



#### Avoid Rollovers and Crushing Injuries

•Use care when turning:

-Turning the steering wheel too far or too fast can result in a rollover or loss of control.

-Slow down before entering a turn.

-When making tight turns from a stop, or at slow speeds, avoid sudden or hard acceleration.

-Avoid sideways sliding, skidding, or fishtailing, and never do donuts.

•Drive straight up and down inclines, not across them, if crossing a hill is unavoidable, drive slowly and turn downhill immediately if you feel the vehicle may tip.

**Abrupt maneuvers or aggressive driving have caused rollovers- even on flat, open areas**

**MUST BE  
16 or Older**



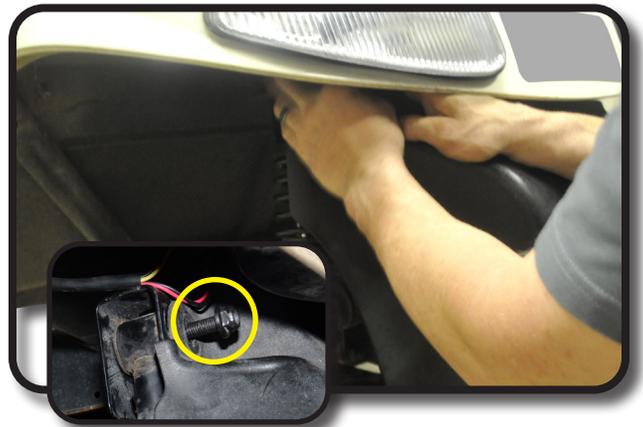
## STEP 1

To begin, be sure to engage the parking brake and switch your cart to “off”. Also make sure Run/ Tow switch is in the “Tow” position. Raise cart with lift and support with jack stands under the frame. Remove front wheels.



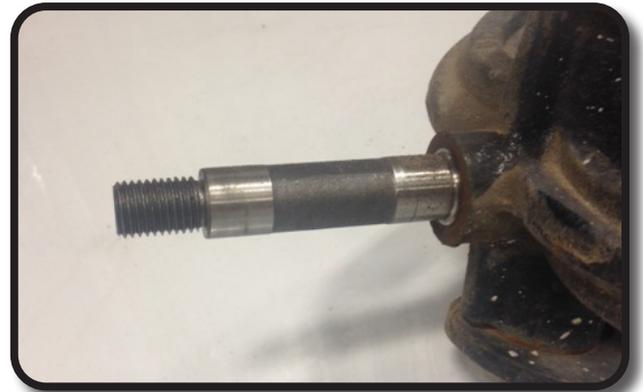
## STEP 2

Using 15mm socket and wrench remove the nuts holding bumper in place. Leave bolt in place until step 5. Retain bumper and hardware.



## STEP 3

Remove cotter pin. Then use a 15/16 socket and remove castle nut from spindle. Remove hub. Retain hub and hardware.



## STEP 4

Remove cotter pin. Then use a 17mm socket and remove castle nut from spindle. Remove hub. Retain hardware.



## STEP 5

Using a 15mm socket and wrench remove hardware from top of the shock and from the lower control arm. Remove factory suspension assembly from cart. Retain hardware (factory suspension will not be reused).

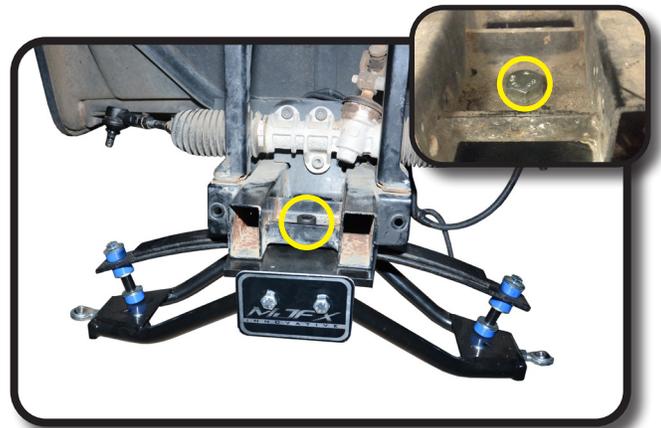
Repeat Steps 3-5 on the other side.



## STEP 6

Using a 25mm socket mount Main Suspension Assembly on the front of cart as shown using supplied hardware. Before tightening install U-bolts over the frame and into the back of plate.

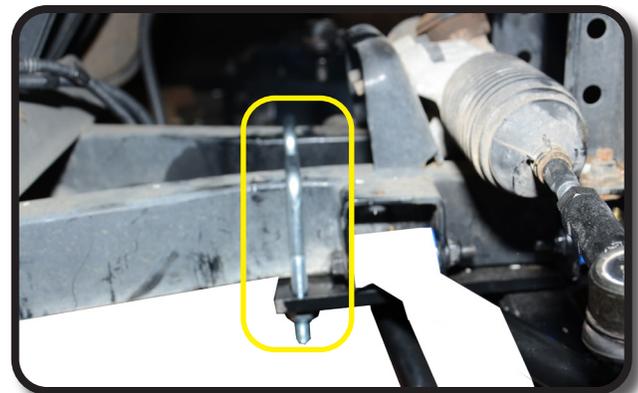
\*A floor jack is recommended to help hold suspension in place while you get your bolts started.



**BEFORE GOING TO STEP 7:** Grease all fittings in upper and lower A-arms

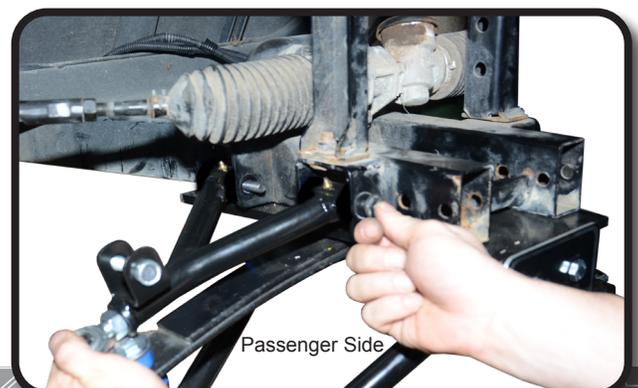
## STEP 7

Using a 17mm socket, tighten U-bolts to frame as shown. Tighten each side evenly.



## STEP 8

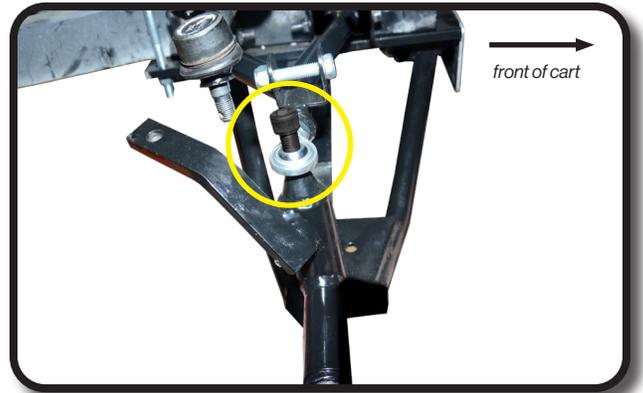
Using a 15mm socket and retained hardware from step 5. Mount new upper A-arm to frame with the shock mount tabs pointed up and offset to the front. Repeat process on other side.



## STEP 9

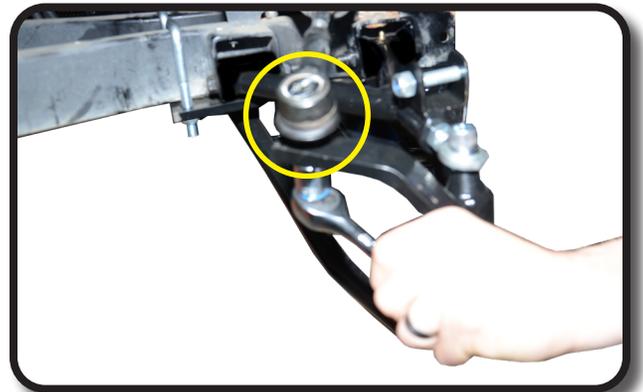
Using 3/8" allen wrench attach spindle to upper and lower A-arms. Repeat on other side.

**DO NOT** use thread locking adhesive until alignment is completed at the end of installation.



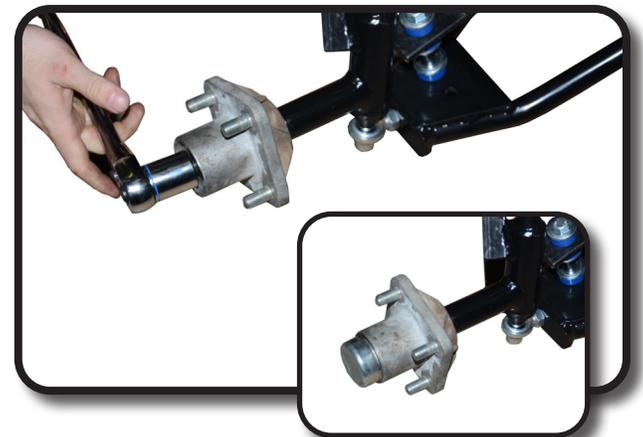
## STEP 10

Using 17mm socket reinstall tie rods using hardware retained from Step 4. Repeat process on other side.



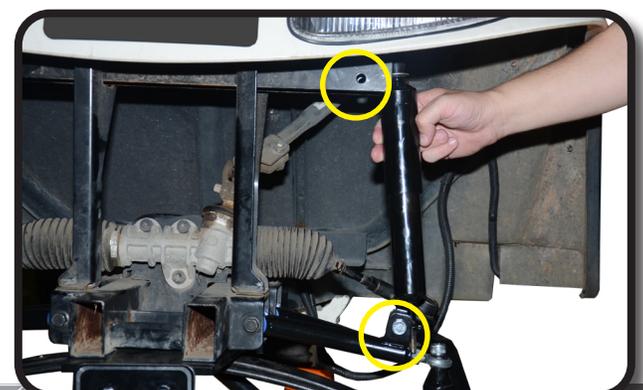
## STEP 11

Using 15/16 socket and retained hardware reinstall hub and dustcap. Repeat on the other side.



## STEP 12

Install new shocks to upper mounts using retained hardware from step 5. Now attach new shock to upper A-arm using supplied 17mm hardware. Install bumper using retained hardware from step 2. Install new wheels and lower cart.



## STEP 13

Chock front wheels. Raise cart with jack and support using jack stands. Jack must remain in place under the rear end in order to complete the following steps.

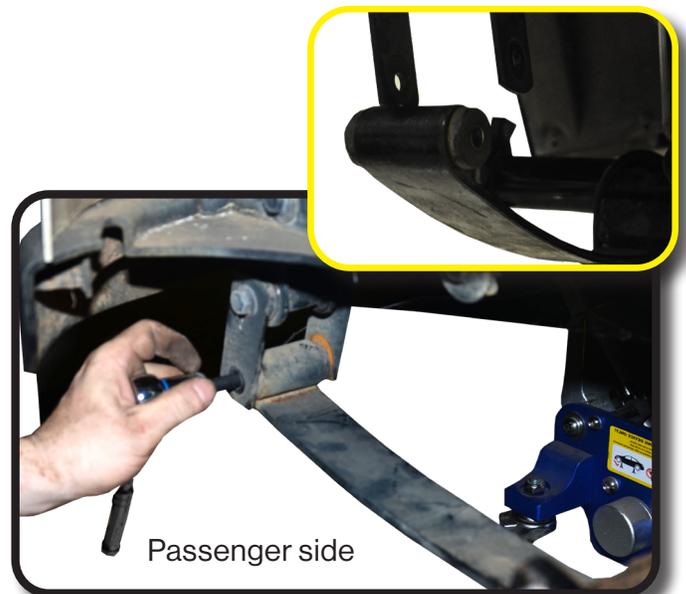
**CAUTION:** The jack will be used to support the entire rear end assembly (axle and motor) for a short time while the leaf springs are moved into their new position above the axle. In order to prevent damage to the axle and motor assembly, jack must remain in place, but only apply enough pressure to keep the rear end assembly from falling.



## STEP 14

Starting on the passenger's side, remove rear tire and then loosen, but DO NOT remove, factory bolts from leaf spring and U-Bolts. Remove nut and bushing from rear shock. Leave as is, and move to driver's side.

**IMPORTANT:** Ensure jack is properly positioned in order to support rear axle and motor assembly and avoid motor roll.



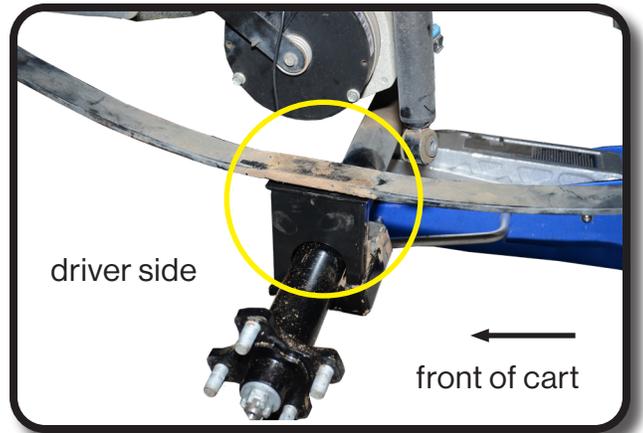
## STEP 15

Using 15mm socket remove driver side shock, factory U-bolt and spring. Retain spring and shock hardware.



## STEP 16

Reinstall factory leaf spring above the axle and install rear lift block under the leaf spring as shown. Check spring bushings for rust and wear. Replace if necessary.



## STEP 17

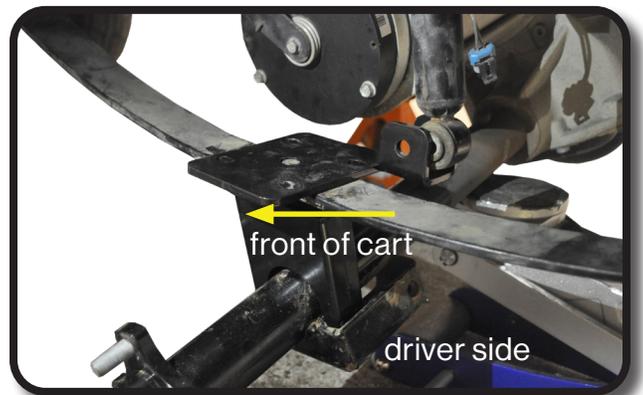
Using the supplied hardware, place bolt on factory bracket as shown and tighten.

**IMPORTANT** Bolt head must be placed on top of factory bracket. This will be used to align bottom bracket with the Rear Shock Mounting Plate and keep axle in the correct position.



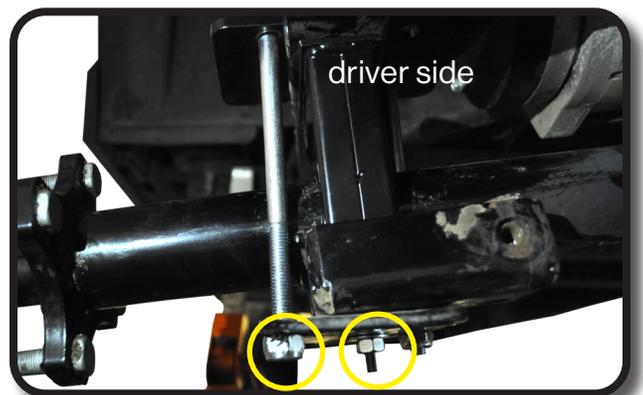
## STEP 18

Attach Rear Shock Mounting Plate to top of the spring as shown.



## STEP 19

Route supplied U-Bolt down through the top of the Rear Shock Mounting Plate to the factory bracket on the bottom. Be sure that all alignment bolts are in correct position to keep axle straight. Using a 17mm socket tighten U-bolt evenly to ensure proper alignment.



**NOTE: For 2016 and newer carts the part number 32062 is needed to attach rear axle.**

## STEP 20

Attach shock to new shock plate using retained hardware from step 15.



## STEP 21

Repeat steps 15-20 on passenger's side. Use jack to lower axle and motor assembly as needed. Once complete, install new wheels, lower cart and proceed with alignment as shown on next page.

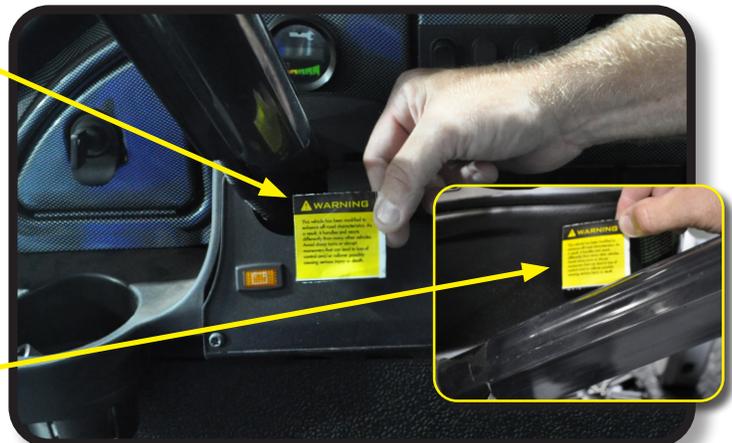


**NOTE: After the first hour of drive time, re-check all lift kit components and alignment. Regrease the fittings, check the alignment and ensure all lift kit hardware is secured for safety after 50 hours of recurring use.**

**PLACE STICKER ON CENTER ACCESS PANEL OR IN PLAIN SIGHT OF DRIVER AND PASSENGERS**

### **WARNING**

This vehicle has been modified to enhance off-road characteristics. As a result, it handles and reacts differently than many other vehicles. Avoid sharp turns or abrupt maneuvers that can lead to loss of control and/or rollover possibly causing serious injury or death.



# ALIGNMENT INSTRUCTIONS

**WARNING:** After installing this lift kit, the front wheels must be properly aligned. Failure to properly align the front wheels may result in decreased ability to control the Golf Cart which may result in a rollover or crash.

## Tools Needed:

- Helm Joint - 15/16" Wrench
- Tie Rod - 3/4" Wrench and 11/16" Wrench

**IMPORTANT:** Both Camber and Toe must be adjusted on this model. Be sure to use thread locking adhesive on upper and lower heim joints spindle screws.

To adjust for proper camber, use a framing square, level, or some other means of verifying that the tire is at a 90 degree angle to the ground.

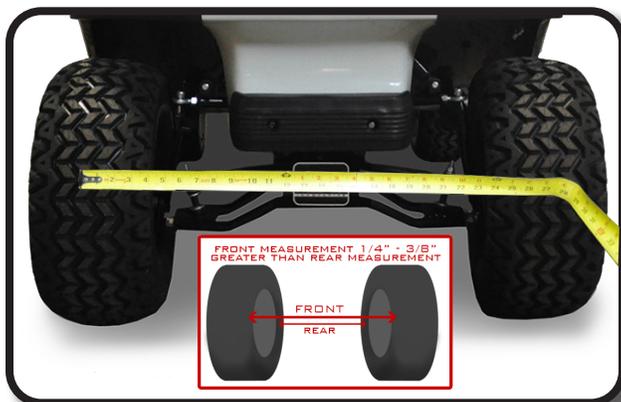
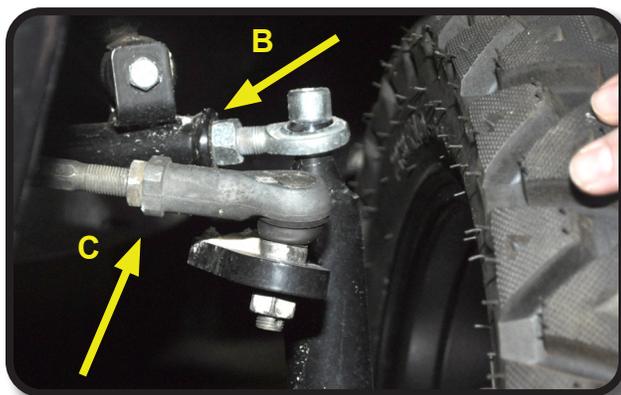
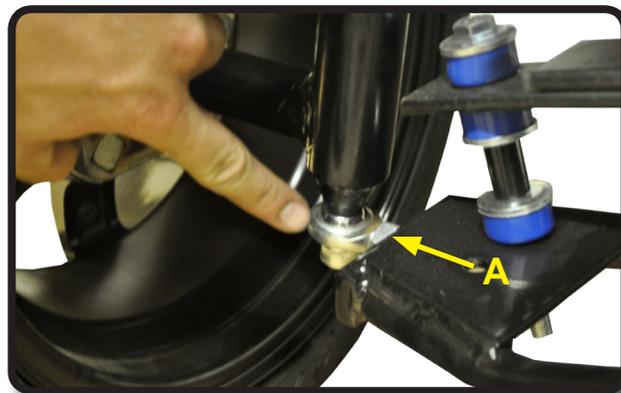
Adjust camber using the two nuts on the bottom heim joint (A).

If adjusting the camber to 90 degrees is not possible using only the adjustment on the bottom heim joint, then the top heim joint (B) must be disconnected from the spindle and rotated as necessary to achieve the correct camber.

**IMPORTANT:** Exposed tie rod threading should be equal on both tie rods. Be sure to retighten all adjustment points after adjustments are made.

\*Once tightened, roll cart back 15-20 feet and then forward again to check. Check measurement reading just if necessary.

**\*Use thread locking adhesive on heim joints once desired camber is achieved on all members of a spindle/ Heim joints. Torque the upper/lower Heim joint bolts to 35FTlbs.**

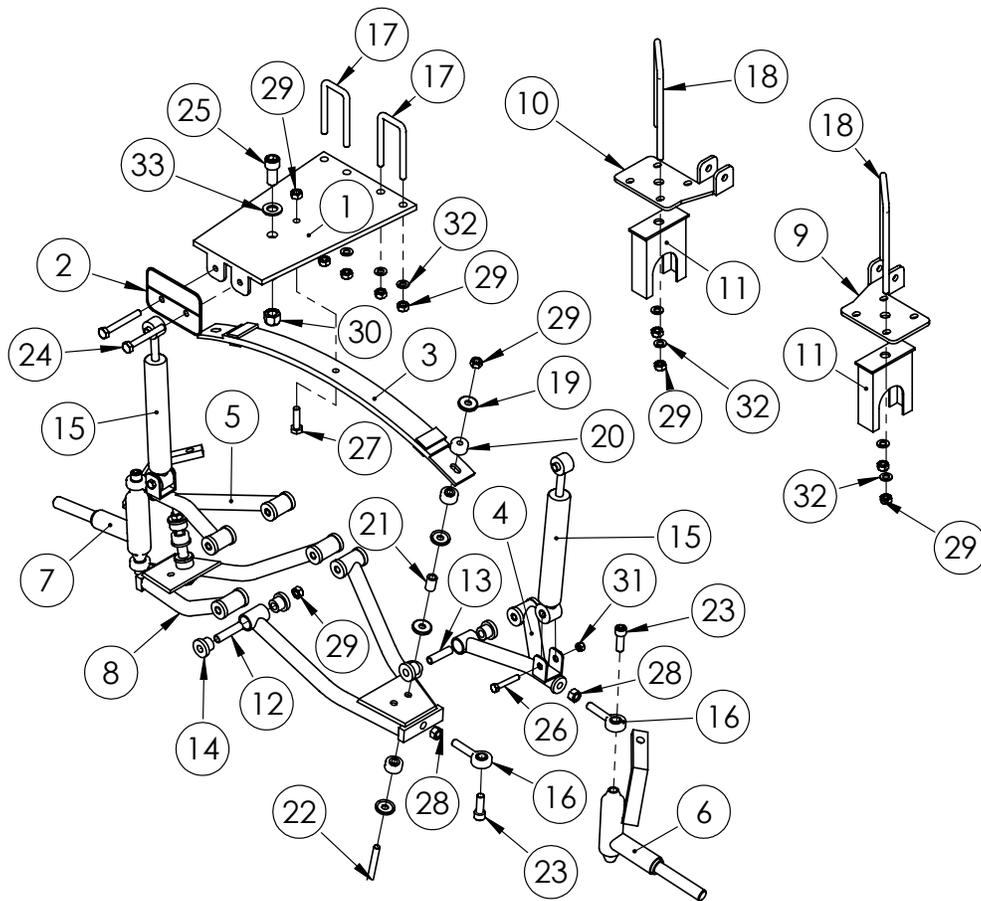


**NOTE:** After the first hour of drive time, re-check all lift kit components and alignment. Regrease the fittings, check the alignment and ensure all lift kit hardware is secured for safety after 50 hours of recurring use.

## INSTALLATION COMPLETE

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# Madjax® 6" HD A-Arm Lift Kit: Fits E-Z-GO® RXV®



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	W16-15-1	RXV Front Main Bracket	1
2	W16-4-3	RXV MJFX Logo Plate	1
3	W16-4-4	RXV Front Leaf Spring	1
4	W16-15-2	RXV Upper A-Arm (Left)	1
5	W16-15-3	RXV Upper A-Arm (Right)	1
6	W16-15-4	RXV Front Spindle 6.0 (Left)	1
7	W16-15-5	RXV Front Spindle 6.0 (Right)	1
8	W16-4-9	RXV Lower Control Arm	2
9	W16-4-10	RXV Rear Suspension Mounting Plate (Left)	1
10	W16-4-11	RXV Rear Suspension Mounting Plate (Right)	1
11	W16-4-12	RXV Rear Lift Block 6.0	2
12	W16-8-6	55mm Bolt Sleeve	4
13	W16-8-9	48.5mm Bolt Sleeve	2
14	W16-8-1	Upper A-Arm/Lower Control Arm Bushing	16
15	W16-15-6	RXV Shock	2
16	W16-8-3	Heim Joint	4
17	W16-4-14	U-Bolt 62.5mm x 110mm	2
18	W16-8-5	U-Bolt 106mm x 180mm	2

ITEM NO.	PART NO.	DESCRIPTION	QTY
	W16-8-12	Front Leaf Spring Bolt Assy 6.0	2
19		Leaf Spring Bushing Cap	4
20		Leaf Spring Bushing	4
21		25mm Bolt Sleeve	1
22		M10x140 Hex Head Bolt	1
29		M10 Locking Nut	1
	W16-4-1	RXV Lift Kit Hardware Pack	1
23	W16-8-13	M12x35 Hex Socket Cap Bolt	4
24		M10x80 Hex Head Bolt	8
25		M16x35 Hex Socket Cap Bolt	1
26		M8x50 Hex Head Bolt	2
27		M10x40 Hex Head Bolt	1
28		M12 Nut	6
29		M10 Locking Nut	12
30		M16 Locking Nut	1
31		M8 Locking Nut	2
32		M10x20 Flat Washer	16
33		M16x32 Flat Washer	1