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GOX Engine Mount Instructions

This kit includes:

1 - engine mount bracket
1 - lock-down bracket
3 - 3/8" flat washer

2 - 8x30mm hex bolt
2 - 8mm nylock nut
1 - 8mm hex nut

1 - long aluminum hex nut
1 - rod end, right thread
1 - rod end, left thread



The ADA GOX™ engine mount/lock-down only fits the frame style shown to the left. The frame must have the dual tabs that the engine mount bolts in-between. This style has a gold stock engine mount, as shown.

The ADA mount will not work with the early style single tab engine mount. The early style has a black stock engine mount.



Step 1:

Empty the fuel from the gas tank. Then remove the rear fender, rear wheel, rear brake pedal, the engine, and the stock engine mount. Be careful when removing the retaining washer that holds the fender onto the fender/brake post. You will need to re-use the retaining washer. Also, pay close attention to the position of the washers used for the rear wheel spacing.



Step 2:

Slide the lock-down bracket onto the rear brake/fender post, as show on the left. The adjustment linkage does not have to be installed at this time.



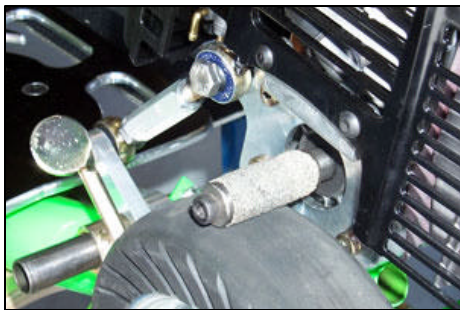
Step 3:

Install the engine mount bracket between the 2 frame tabs. Use 1 3/8" washer between the engine mount and the inside tab. Place the other 2 3/8" flat washers between the engine mount and the outside tab. Install the stock engine mount bolt through from the tire side. Place the stock flat washer and nut onto the end of the engine mount bolt. Tighten the engine mount bolt so that the engine will still pivot. Set the adjustment linkage as short as possible, turning both rod ends so they stick out of the aluminum nut equally. Use the 8mm hex nut on the right hand thread rod end. Install the adjustment linkage with the locking nut on the bottom, as shown on the left. Use the 8x30mm hex bolts and nylock nuts to bolt the adjustment linkage to the engine mount and lock-down. Install the bolts from the tire side, as shown.



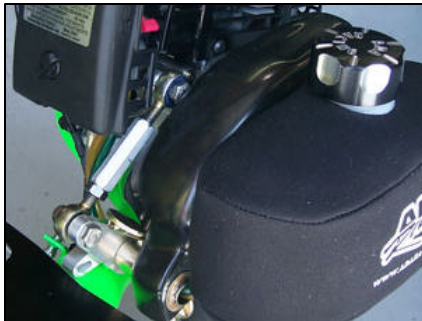
Step 4:

Make sure that the lock-down bracket is all of the way onto the brake/fender post. It should extend over the larger part of the post as shown in the picture in step 2. Now, re-install the rear brake pedal onto the post, with the shorter end towards the bottom, as shown on the left. Make sure that the brake operates smoothly. It may be necessary to apply grease to the post before installing the brake pedal, for smooth brake operation.



Step 5:

Re-install the engine, using the stock engine mount screws. It is best to apply Loc-Tite to these screws and tighten securely. Install the rear wheel onto the axle, making sure to use the same washer spacing as stock. Slide the rear fender onto the post, while sliding the fuel lines through the center of the post. Install the rear fender bracket to the rear axle and tighten securely. Tap the rear fender retaining washer over the post using a flat blade screwdriver. Install the fuel lines onto the carb. The blue fuel line goes onto the rear spigot (multiple barbs) and the yellow line goes onto the front spigot (single barb).



Step 6:

The lock-down adjustment needs to be set so that the spindle does not slip on the tire when riding. If the engine moves back when accelerating, then there is not enough pressure on the spindle. But, be careful as to not set the adjustment too tight, as this will take power from the engine. The recommended way is to start with the adjustment on the loose side, then adjust tighter a little at a time, until the spindle stops slipping on the tire. You will also need to re-adjust the lock-down tension as the tire wears. You should also re-check all bolts when you have completed the installation and periodically after riding.



How to 'free wheel':

If you wish to loosen the lock-down adjustment and 'free wheel' your Geo, you will need to use a zip tie to hold the lock-down bracket to the frame. Insert a zip tie through the slotted hole in the bottom of the lock-down bracket and tie it around the frame. This will hold the lock-down bracket in place, so you can loosen the adjustment and hold the engine off of the tire.