



Family Motorsports, Inc.

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Youth Four Stroke ATV Starting Guide

1. Remove the cardboard box, and disassemble the steel crate.
2. Place handle bars on in a manner that the person riding the ATV can reach the hand brake and is comfortable. If you remove the seat the handle bar mounts are underneath in the battery holder.
3. Mount the back tires. Make sure that the tread pattern ("arrows") faces forward and the valve stems point out. Put on the washer and the dust cover ring. Make sure that when you put the crown nut on that the cotter pin goes through the slots on the crown nut. If the castle nut goes past they cotter pin hole on the axle when tightened you might have to put more washers behind the dust cover ring. If there are not enough washers included with your unit you can use generic washers (the axle is $\frac{3}{4}$ ").
4. Mount the front tires. Once the tires are on set the handle bars straight, stand back and take a look at the front tires. Often the linkage is not set which can cause the tires to be crooked (toe in / toe out). Loosen the nuts on both ends of the steering linkage. The center shaft of the linkage should now turn freely. When you turn the shaft it will move the tire so that it points in or out. This is how you set the "Toe" of the ATV. You want to make sure that both tires face straight otherwise you will feel the ATV pull to one side or the other when you ride it. This can also cause premature tire wear.
5. Set your tire pressure between 4psi & 6psi
6. Install the front and rear racks. NOTE: When installing the rear rack we have noted that one of the mounting bolts on the left can come very close to one of the battery posts. When installing the rear rack be sure that you note the position of the battery and the rack and avoid contact between the two pieces.
7. Check the oil to ensure it is at the proper level. You may have to add/drain oil if the level from the manufacturer is low/high. The break in period for the engine is 5 hours. After this time you can drain the oil and refill it with clean motor oil (10W-30 is recommended).
8. Fill the battery with the electrolyte and let sit for 15mins.

9. Hook up the battery, Red to positive and Green to negative.
10. Check the chain tension. If the chain is too loose or tight you can adjust it by loosening the 4 nuts that attach the axle to the rear swing arm. Once these are loose you can pivot the axle forward or back to tighten or loosen the chain. When you push the chain all the way down and then all the way up the distance between the two points should be approximately 1".
11. Check the brakes. If the brakes are soft or squishy, pull and release the brake lever 20-30 times. This will help increase the hydraulic pressure in the lines after sitting and will bring the brakes back up to operating spec. If there is no response in the brakes after this you might have to bleed the lines. There is a small bleed screw on the back brake caliper. Pull the brake lever 5 times to build pressure and then hold it. With the brake lever held loosen the bleed screw to release any air in the lines (you will only need to loosen the screw ¼ turn to get the air out). Tighten up the bleed screw and repeat the process. You may need to repeat this process 10-15 times. REMEMBER: As you bleed the brake system you may lose hydraulic fluid. It is important to keep the brake fluid reservoir so that you are not letting more air enter the system while trying to bleed it.
12. Before you start the ATV go through and check that all the nuts and bolts on the bike are tight. You should perform this "bolt check" before every ride.
13. Check to make sure all electrical components are functioning
 - a. head light
 - b. brake light
 - c. horn (if equipped)
 - d. start / kill switch (on handle bars)
 - e. ignition switch and key
 - f. engine start button
 - g. remote kill (if equipped)

STARTING THE ATV

We recommend using mid-grade or premium gas in your ATV as today's lower grade fuel can contain a lot of detergents which cause various problems in single cylinder engines.

To engage the choke, push the choke lever (located on the left hand side of the handle bars) all the way forward so that it is parallel to the handle bars. To disengage the choke, pull the choke lever back so that it is at a 90 degree angle to the handle bars.

When starting the ATV you must make sure that you hold the brake lever. As a safety feature, power to the starter motor will not connect unless the lever is held.

Let the engine idle and warm up for 3-5 minutes. During the warm up time you may have to adjust the choke position so that the engine doesn't die. This is normal.

!!!!!!IMPORTANT!!!!!!

On the remote, the button with the lightening bolt acts as a remote starter. When you use this remote start it bypasses the ignition and key circuit that is used connect and disconnect power to the starter motor. Once you do this the circuit will remain bypassed unless you use the remote to shut the engine off (the unlock button). **WARNING:** Once bypassed, you will be able to start the engine without the keys in the ignition.

This will also leave the power to the bike connected which will kill the battery over a short period of time. Batteries are not covered by the warranty. To avoid this drain please make sure that if you start the ATV with the remote that you turn it off with the remote as well.

If you are storing the ATV for a long period of time it is a good idea to disconnect the battery. This will not only prevent the battery from draining but will give it an overall longer life.