

105CC MINI BIKE
Model:HCF001A

DRYX EARTH



OWNER'S MANUAL AND SAFETY INSTRUCTIONS

Keep this manual for safety warnings, precautions, assembly, operation, inspection, maintenance, and cleaning procedures. Write the product's serial number on the back of the manual, or the purchase date if products has no serial number.

SAFETY WARNINGS

WARNING

This owner's manual contains important information. Each rider of the mini bike must read this owner's manual thoroughly before riding the mini bike for the first time and must always follow all of the instructions outlined in this manual. This manual must remain with the vehicle if the vehicle is transferred to a new owner. Do not discard this owner's manual as it must be reviewed by each rider prior to his or her operation of the vehicle. If a minor is operating the vehicle, it is the responsibility of the minor's guardian to ensure that the minor understands the information contained in this manual. This manual contains the latest product information available before printing. Due to product improvements or production changes, there could be discrepancies between the information contained in this owner's manual and actual product specifications. ORYXEARTH reserve the right to make changes to its products at any time without notice and without obligation to make the same or similar changes to any vehicle previously built or sold.

It is the responsibility of any rider of this vehicle to be familiar with and fully comply with all laws, rules, and regulations governing the operation of this vehicle. Laws vary by jurisdiction. ORYXEARTH have no responsibility or liability for the costs to comply with all applicable laws and regulations or for mini bike damage or human injury resulting from an owner or operator's failure to follow all relevant laws and regulations. These laws include, but are not limited to:

» **Vehicle Operation Laws:** It is illegal to operate this off-road vehicle on public streets, roads, and highways. It is illegal to operate this vehicle under the influence of drugs or alcohol, even on private property. Other vehicle operation laws might apply in your area.

» **Vehicle Title & Registration Laws:** You may need to title and/or register your new mini bike with one or more state or municipal government agencies. You are solely responsible for titling and/or registering your mini bike and for all related costs. Keep your mini bike's Certificate of Origin; it may be required to title and/or register your vehicle.

» **Vehicle Modification Laws:** Do not modify your mini bike or attach after market accessories. Modifications to the carburetor and exhaust systems are a violation of the law and are subject to prosecution by the Environmental Protection Agency.

» **Vehicle Maintenance Laws:** Always follow all relevant vehicle maintenance laws, which include, but are not limited to, laws regulating the handling and disposal of flammable and dangerous materials such as gasoline and oil.

⚠ WARNING: Never allow children under the age of 13 to ride the mini bike.
The mini bike is designed for riders who are 13 or older. Riders younger than age 13 should not operate the mini bike.

⚠ WARNING: Never allow unsupervised or unqualified minors to ride the bike.
If the operator of the mini bike is a minor, the rider's guardian is responsible 1) for ensuring that the rider meets the physical and developmental levels necessary to safely ride the bike and 2) for supervising the minor while he or she is riding the mini bike.

⚠ WARNING: Always wear protective safety gear while riding the mini bike.
Protective safety gear includes, but is not limited to, a Department of Transportation approved full-face motorcycle helmet with a chin strap, goggles, boots, gloves, long riding pants with hip and knee pads, and a long sleeved riding jersey with elbow, chest, and shoulder pads.












⚠ WARNING: Always secure hair while riding the mini bike.
Loose hair has the potential to get caught in the mini bike. Always keep hair tightly secured while operating the bike.

⚠ WARNING: Never operate the bike under the influence of alcohol or drugs.
The use of alcohol and/or drugs will impair the rider's ability to safely operate the mini bike.

⚠ WARNING: Never operate the mini bike with a passenger.
The mini bike is designed for one rider at a time.

⚠ WARNING: Never ride the mini bike on hard surfaces.
The mini bike's tires are designed for operation in dirt, gravel, or similar materials and are not stable on any hard surfaces including, but not limited to, concrete or asphalt. Hard surface will wear tires and reduce the service life.

SAFETY WARNINGS

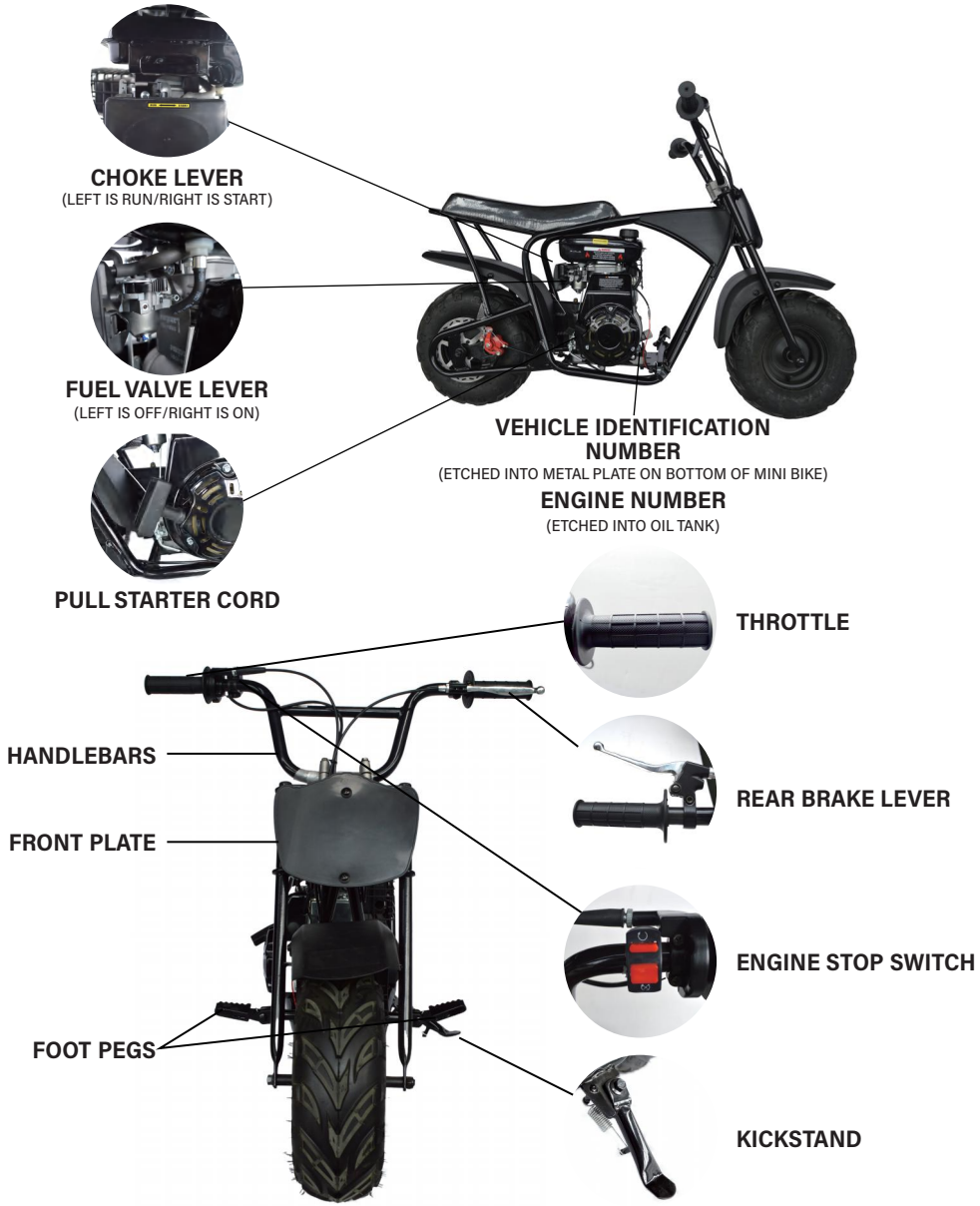
-  **WARNING: Never ride the mini bike at night.**
The mini bike is not equipped with lights.
-  **WARNING: Never ride the mini bike alone.**
Because unexpected situations can occur, always ride in proximity of your base and of other people who can provide assistance in case of a problem.
-  **WARNING: Never ride the mini bike if it is not in proper riding condition.**
Always inspect your mini bike before you ride to ensure that it is in proper riding condition. If you have any indication that your mini bike is not running correctly, stop riding immediately. Do not ride your mini bike back to your base.
-  **WARNING: Always exercise good judgment while riding the mini bike.**
It is the responsibility of the operator of the mini bike to use sound judgment in the operation and use of the vehicle. Ride within your skill level at comfortable speeds. Be cautious of potential hazards and difficult terrain. Exercise extra caution in muddy or wet riding conditions. Always keep both hands and feet on the handlebars and foot pegs. Do not brake or accelerate while turning. Do not attempt tricks or stunts or go off jumps.
-  **WARNING: Never operate the mini bike in an enclosed space with poor ventilation.**
The mini bike's exhaust gas contains poisonous carbon monoxide which can collect rapidly in an enclosed area and result in illness or death.
-  **WARNING: Never modify the mini bike or attach after-market accessories.**
Modifications and after-market accessories reduce the rider's ability to control and ride the mini bike safely. We are not liable for any damage or injury caused by any after-market accessory.
-  **WARNING: Always perform the necessary maintenance on the vehicle.**
Failure to perform necessary maintenance on the vehicle could result in harm or fatal injury to the operator or others.
-  **WARNING: Always exercise caution while servicing the mini bike.**
Performing most maintenance procedures on the mini bike involves handling potentially dangerous and flammable materials such as oil and gasoline. Recognize the risk that injury could potentially occur while you are servicing your mini bike and always use good judgment. Wear the necessary protective gear. Keep flames and cigarettes away from the mini bike.
-  **WARNING: Never perform maintenance on the vehicle while it is running.**
To reduce the risk of potential harm or burns from hot or moving parts, always ensure that the engine stop switch and the fuel valve lever are both in the "off" position before performing maintenance on your mini bike. Never touch any of the mini bike's parts while the mini bike is running.
-  **WARNING: Always lubricating the clutch bush and chain.**
To extend the service life, please drip several drops of motor oil before riding the mini bike.
-  **WARNING: Must push the choke lever to RUN position after engine starting.**
If choke lever on the start position, no air into the carburetor, mini bike can't run.

PROP 65 WARNING: Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle.

SAVE THESE WARNINGS.

PARTS INFORMATION

BASIC OPERATION: STARTING, RIDING, STOPPING & STORING THE MINI BIKE



OPERATION

INSPECTING YOUR MINI BIKE

Before turning on and riding your mini bike, inspect the vehicle to ensure it is in proper operating conditions:

- » Examine the tires for proper inflation and to detect excessive wear.
- » Visually inspect the entire mini bike for damage.
- » Check the engine oil level and the fuel level, and ensure that the fuel cap and the oil filler cap are securely tightened.
- » Test to ensure that the brakes and the throttle are working properly.
- » Visually inspect the mini bike for fuel or oil leaks.
- » Inspect all nuts and bolts to ensure they are properly tightened.
- » Ensure that the handlebars turn smoothly.
- » Complete any maintenance procedures which are necessary to ensure your mini bike is in proper riding condition. Do not ride your mini bike if it is not in operating condition.

STARTING YOUR MINI BIKE

1. Turn the engine stop switch to the "on" position, as indicated by the symbol.
2. Turn the fuel valve lever to the "on" position.
3. Ensure that the choke lever is in the correct position:
 - a. If the engine is warm, move the choke lever into the "run" position.
 - b. If the engine is cold, move the choke lever into the "start" position.
4. Pull the pull starter cord in rapid succession until the engine starts running. To avoid potential damage to your mini bike, never pull the starter cord all the way out of its housing.
5. Once the engine has started, move the choke lever into the "run" position if it was not already there. Having the choke lever in the "start" position will help you start the mini bike; however, the mini bike will not operate properly with the choke lever in the "start" position. Always move the choke lever to the "run" position once the engine is running.
6. Once the choke lever is in the "run" position, use your foot to disengage the kickstand and you are ready to ride!
7. If the mini bike stops running after you move the choke lever into the "run" position, repeat the steps above to restart the engine, this time allowing the engine to idle with the choke lever in the "start" position for one to two minutes before you move the choke lever into the "run" position. This will allow the engine to achieve a higher operating temperature.


RIDING YOUR MINI BIKE

» **To Go:** The speed of the mini bike is controlled by the throttle. Twisting the throttle towards the rider increases the speed of the mini bike and releasing pressure from the throttle causes the mini bike to gradually slow down until it comes to a stop. When the throttle is twisted towards the rider and the mini bike is moving, the throttle is "open." When the throttle is in its resting position, it is "closed".

» **To Stop:** To stop or slow the mini bike, release the throttle and squeeze the rear brake lever firmly and smoothly. The more braking pressure you apply, the quicker you will slow down and stop. When you come to a stop, put your foot down to balance the mini bike.

OPERATION AND MAINTENANCE

STOPPING YOUR MINI BIKE

1. When you have finished riding, use your foot to lower the kickstand. The kickstand will keep the mini bike upright when it is parked.
2. Turn the engine stop switch to the "off" position, as indicated by the  symbol. Turning the engine stop switch off while the mini bike is running will stop the mini bike immediately.
3. Turn the fuel valve lever to the "off" position.

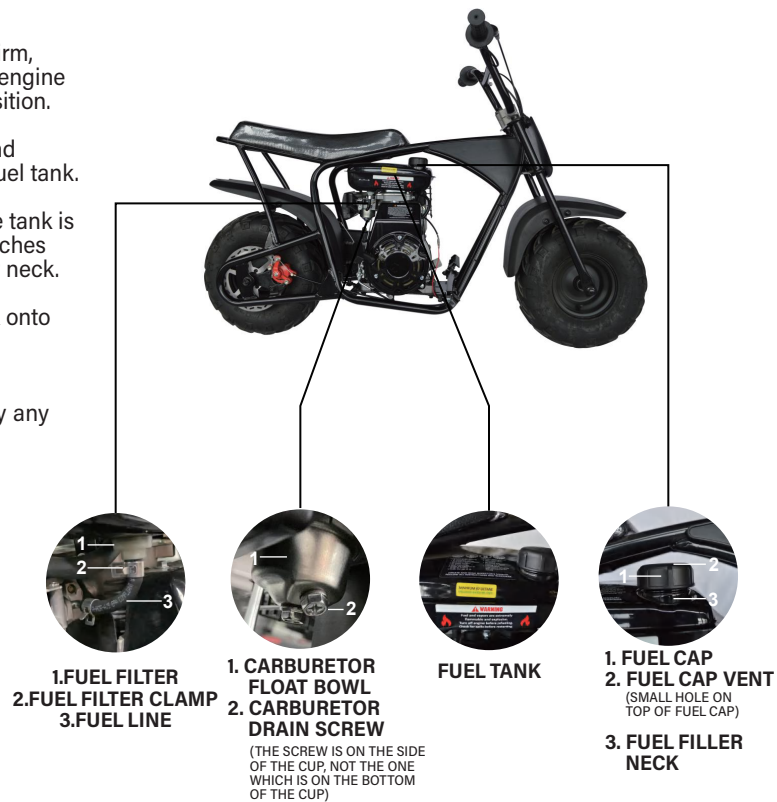
STORING YOUR MINI BIKE

Store the mini bike on a flat surface, preferably sheltered from the elements. Storing the mini bike in the sun, wind, rain, or snow or in similar conditions will potentially reduce the lifespan of the vehicle. If you will not be using the mini bike for an extended period of time, stop the mini bike by turning the fuel valve lever into the "off" position and allowing the mini bike to stop on its own. This uses up the fuel that remains in the carburetor and protects the carburetor from gasoline varnish, a problem that can arise when your mini bike is stored for long periods of time.

ADDING FUEL

Before each ride, check the mini bike's fuel level and add fuel if necessary. Use any unleaded gasoline with an octane rating of 87 or higher in your mini bike. Never use ethanol blended fuel, stale or contaminated fuel, or fuel that has been mixed with oil. Follow the steps below to refuel your mini bike:

1. Park the mini bike on a firm, level surface and turn the engine stop switch to the "off" position.
2. Unscrew the fuel cap and remove the cap from the fuel tank.
3. Add fuel to the tank. The tank is full when the fuel level reaches the bottom of the fuel filler neck.
4. Screw the fuel cap back onto the fuel tank and tighten it securely.
5. Using a cloth, wipe away any spilled fuel.



MAINTENANCE

REMOVING SEDIMENT FROM THE FUEL SYSTEM

Avoid getting dust, dirt, water, and/or debris in the fuel tank. If the fuel tank has become contaminated, it will need to be drained and new fuel will need to be added. Certain fuel system components will also need to be cleaned. Follow the steps below to remove contamination from the fuel system:

1. Park the mini bike on a firm, level surface and turn the engine stop switch to the "off" position.
2. Turn the fuel valve lever to the "on" position.
3. Locate a secondary container, such as a plastic bucket, to catch the gasoline that you will drain from the tank.
4. Take a pair of pliers and release the pressure on the fuel filter clamp that holds the fuel line and the fuel filter together.
5. Pull the fuel line off of the fuel filter and let the gasoline flow through the fuel filter into the secondary container. If no fuel drains, your fuel filter might be clogged. With a wrench, remove the fuel filter so gasoline can flow directly from the tank into the secondary container.
6. Drain the entire tank.
7. If you have not already done so in step 3 above, use a wrench to remove the fuel filter.
8. Clean the filter thoroughly to remove all debris.
9. If you notice excessive debris in the drained fuel or in the fuel filter, you will need to run additional fuel through the tank to clear out any remaining debris. Add gasoline to the tank, letting it flow through the tank and into the secondary container. Continue adding fuel until no debris remains in the tank.
10. Screw the fuel filter back into the fuel tank.
11. Attach the fuel line to the fuel filter and secure the fuel filter clamp back into its original position.
12. Refuel with fresh gasoline.
13. If sediment has been found in the fuel tank, you will also need to clean the carburetor sediment cup. Unscrew the carburetor float bowl. Let the gasoline flow into a secondary container until the fuel flows clean. Reinsert the carburetor drain screw.
14. If necessary, add additional fuel to the tank to replace the fuel you drained in step 11.
15. Use a cloth to wipe away any gasoline that spilled on or around the mini bike.
16. Start the mini bike and visually examine the fuel system for leaks before riding.

CLEARING A FLOODED ENGINE

If the engine fails to start after repeated attempts, it may be flooded with excess fuel. Follow the steps below to clear a flooded engine:

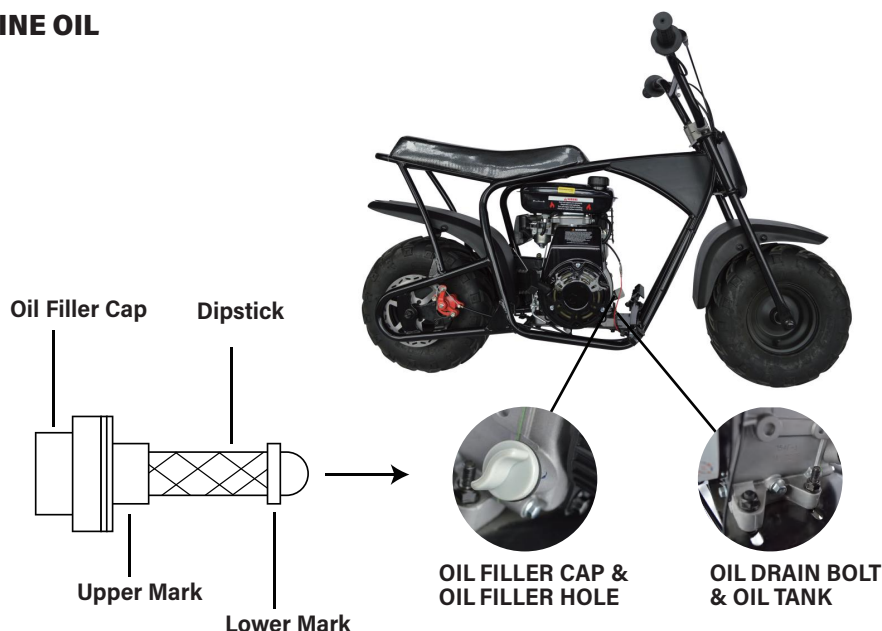
1. Park the mini bike on a firm, level surface and turn the engine stop switch to the "off" position.
2. Turn the fuel valve lever into the "off" position.
3. Push the choke lever into the "run" position.
4. Twist the throttle and hold it in the "open" position.
5. Firmly grip the pull starter cord and pull in rapid succession for about 30 seconds. This step clears excess fuel from the engine.
6. Turn both the engine stop switch and the fuel valve lever to the "on" position, and start your mini bike with the choke lever in the "run" position.

MAINTENANCE

CLEANING THE FUEL CAP VENT

If the mini bike is not starting or is not performing well, you might have a clogged or partially obstructed fuel cap vent. Park the mini bike on a firm, level surface and turn the engine stop switch to the "off" position. Remove the fuel cap to allow air into the fuel tank and then screw the fuel cap back onto the fuel tank. Try starting the engine. If the engine starts after air has been let into the tank, the fuel cap vent is probably clogged. To remedy the problem, clean dirt and debris from the fuel cap vent.

ENGINE OIL



CHECKING & ADDING ENGINE OIL

Before each ride, check the mini bike's engine oil level and add oil if necessary. The Society of Automotive Engineers (SAE) 10W-30 oil is recommended for most climates. If you live in an extreme climate, refer to an SAE approved oil viscosity chart to determine the appropriate type of engine oil for your environment. Follow the steps below to check and add oil:

1. Park the mini bike on a firm, level surface and turn the engine stop switch to the "off" position.
2. Use a clean cloth to wipe on and around the oil filler cap.
3. Unscrew and remove the oil filler cap.
4. Wipe the entire dipstick clean using a clean cloth.
5. Hold the mini bike upright so that it is not resting on the kickstand.
6. Insert the oil filler cap back into the oil filler hole until it rests, but do not screw it in.
7. Remove the oil filler cap and check for dark-colored oil on the dipstick. If the oil level is at or near the upper mark, you do not need to add oil. If the oil level is at or near the lower mark, continue to step 8.
8. Pour oil into the oil filler hole. Repeat steps 4 through 8 until the oil reaches the correct level. Do not overfill the oil tank.

MAINTENANCE

9. Reinsert the oil filler cap and screw it in tightly.
10. Start the mini bike and let it run for several minutes.
11. Stop the mini bike and repeat the steps above to ensure that the oil is still at the correct level.
12. Once the oil level is correct, start your mini bike and check for oil leaks. If you see oil leaking out of the oil tank, tighten the oil filler cap and the oil drain bolt.

CHANGING THE ENGINE OIL

If the mini bike is not starting or is not performing well, you might have a clogged or partially obstructed fuel cap vent. Park the mini bike on a firm, level surface and turn the engine stop switch to the "off" position. Remove the fuel cap to allow air into the fuel tank and then screw the fuel cap back onto the fuel tank. Try starting the engine. If the engine starts after air has been let into the tank, the fuel cap vent is probably clogged. To remedy the problem, clean dirt and debris from the fuel cap vent.

1. Park the mini bike on a firm, level surface.
2. Start your mini bike and let it run for five to ten minutes to warm up the engine oil.
3. Stop your mini bike by turning the engine stop switch to the "off" position.
4. Place a device, such as an oil drain pan, under the oil drain bolt to catch the used oil.
5. Using a wrench, unscrew and remove the oil drain bolt to start draining the oil.
6. After the oil has drained, lift up the mini bike from the rear frame to ensure all oil has drained from the engine.
7. After all oil has drained, screw in the oil drain bolt firmly but do not overtighten.
8. Refill the oil tank to the proper level. The oil tank capacity is twelve ounces.
9. Dispose of the waste oil at a government certified oil drop off location.
Failure to do so is harmful to the environment and illegal in most states.

CLEANING THE AIR FILTER

The mini bike's air filter must be cleaned in order for the mini bike to operate properly. Inspect the air filter in your mini bike as part of your regular maintenance routine and clean it whenever it appears dirty. Follow the steps below to clean the air filter:

1. Park the mini bike on a firm, level surface and turn the engine stop switch to the "off" position.
2. Using a hard metal object like a key or the end of a tool, firmly press down on the tab that secures the air filter cover. See the air filter housing tab image above for the tab's precise location. Once you press hard enough, the air filter cover will pop off, exposing the sponge-like air filter.
3. Remove the air filter from the housing that holds it in place.
4. Wearing gloves and eye protection, dampen the air filter using a specialized air filter cleaner or a non-flammable solvent.
5. Squeeze the excess cleaner from the air filter, taking care to not damage the filter.
6. Allow filter to dry completely.
7. Wearing gloves and eye protection, dampen the air filter using a quality air filter oil.
8. Squeeze the excess oil from the air filter, taking care to not damage the filter.
9. Reinstall the air filter and the air filter cover.

MAINTENANCE

AIR FILTER



ADJUSTING THE BRAKES

If you cannot stop your mini bike properly, you will most likely need to adjust its rear disc brake. You will also need to adjust the brake as part of your regular maintenance routine, as regular use of the mini bike will cause the brake to loosen over time. Follow the steps below to complete a brake adjustment:

1. Park the mini bike on a firm, level surface and turn the engine stop switch to the "off" position.
2. Using a wrench, loosen the adjusting nut.
3. Pivot the brake mechanism toward the front of the mini bike until there is a very small amount of tension on the pivot arm. This is the optimal position for your brake. Do not rotate the brake mechanism as far forward as it can go, as this will cause your brake to be constantly engaged.
4. Using a wrench, tighten the adjusting nut.
5. Carefully lift up the back of the bike while holding the remainder of the bike steady. Do not apply the brake lever. Spin the back wheel to ensure that it spins freely. If it does not spin freely, repeat steps 1 through 4 above. This time, do not rotate the brake mechanism so far forward.
6. Lower the mini bike back to the ground and apply the brake lever. Without starting the mini bike, try to roll it forward. If the back wheel does not rotate, your brakes are properly adjusted. If the back wheel is still spinning (even slightly), repeat steps 1 through 5 above. This time, rotate the brake mechanism forward towards the front of the mini bike.

MAINTENANCE

BRAKES



TIRES INSPECTING YOUR TIRES

Regularly perform an in-depth inspection of your tires as part of your maintenance routine. Park the mini bike on a firm, level surface and turn the engine stop switch to the "off" position. Look for bumps or bulges in the sidewall of the tire and inside of the treads. Look closely for cuts, slits or cracks. Check for signs of excessive wear. Check for rocks, screws, nails or other objects embedded in the tires or tread. Replace all tires before the tread depth gets below 0.12 inches or anytime you notice a reduction in traction. Remove any foreign objects. Replace any tire if you can see a fabric or cord showing through or if there are any bumps or bulges. Inspect your rims. If you notice the rims are bent or dented, take your mini bike to the nearest Service Center. Never ride with a bent or dented rim.

ADDING AIR TO YOUR TIRES

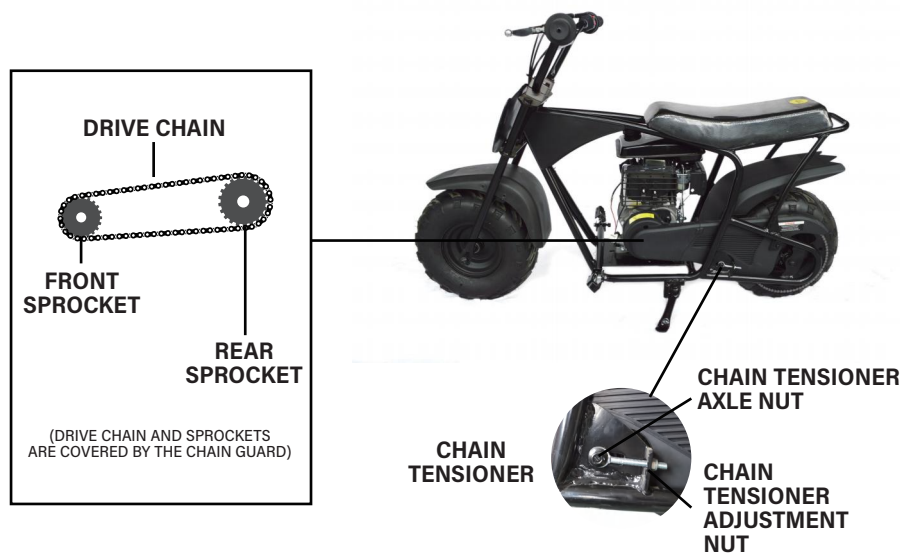
The mini bike's tires should be inflated to 10 psi in order for the mini bike to operate properly. As part of your regular maintenance routine, use a tire pressure gauge to check the air pressure in both of the tires. If necessary, use a hand pump or an electric air pump to inflate the tires to the recommended level. Always check the air pressure when your tires are cold. If you check the air pressure when the tires are warm, you will receive an artificially high reading. Never check or add air to your tires while the mini bike is running.

APPEARANCE & CARE

You may clean your mini bike using water, mild neutral detergents, and/or mild spray cleaners. Avoid using products that contain harsh detergents or chemical solvents that can damage the mini bike's metal, paint, and plastic. We recommend that you use a garden hose and a soft sponge to wash your mini bike, as high pressure washers and harsh brushes can damage certain parts of the mini bike. To avoid damaging the mini bike, never aim water directly at the engine or surrounding components. Never wash the mini bike while the engine is running. Always lubricate the drive chain after cleaning and drying the mini bike.

MAINTENANCE

DRIVE CHAIN



ADJUSTING THE DRIVE CHAIN

The drive chain needs to have a small amount of slack to operate properly. No slack or excessive slack in a drive chain can cause damage to the bike. Normal use of the mini bike will cause the chain to stretch over time, therefore it is necessary to adjust the tension on the chain as part of routine maintenance. Follow the following procedures to adjust the drive chain slack:

1. Park the mini bike on a firm, level surface and turn the engine stop switch to the "off" position.
2. Reach over the top of the chain guard and pull upward on the drive chain midway between the sprockets. The vertical movement of the drive chain should measure approximately 1/2 of an inch.
3. Repeat the previous step along several points of the drive chain. The slack should remain constant throughout. If it does not, follow the steps below to make an adjustment.
4. Loosen both the axle nut and the chain tensioner adjustment nut.
5. Slide the axle nut either forward (towards the front of the bike) to loosen the drive chain or backward (towards the back of the bike) to tighten the drive chain. Adjust the tensioner until there is approximately 1/2 an inch drive chain slack.
6. Tighten the axle nut and the chain tensioner adjustment nut.
7. If the chain tensioner is as tight as possible and slack still remains, the chain is worn beyond its service limit. Contact customer service for assistance or take your mini bike to a Service Center.

MAINTENANCE

CLUTCH OIL PROCEDURE



CLUTCH COVER

LUBRICATING THE CLUTCH BUSH

- 1) Remove the rubber plug from the clutch cover.



Cover shown with plug removed.



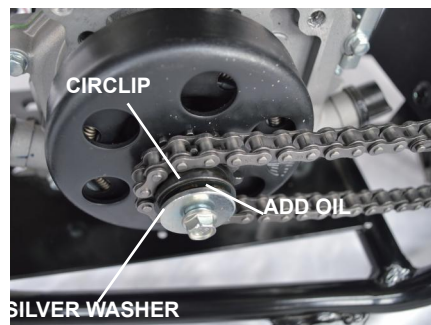
MAINTENANCE

2) Drip several drops of 10W30 motor oil on the clutch hub behind the silver washer. Make sure the oil drips on top of and behind the circlip.



3) Let the oil seep into the clutch bushing for several minutes before starting the bike.

4) Replace the rubber cap.



NOTE:

It is recommended that the clutch bushing is oiled prior to and after each ride.

The following riding conditions require that the clutch be lubricated more often:

- Letting the bike idle for extended periods.
- Riding under a heavy load.
- Riding with the brake partially applied.
- Riding for extended periods at partial throttle when the clutch shoes do not fully engage the drum.

These conditions create a lot of heat in the clutch and burn off the lubrication in the bushing. This will require that the oiling procedure is repeated more often. Not oiling the clutch on a regular and as needed basis will damage the clutch and the bushing possibly causing the bike to creep forward at idle or to stall at idle.

MAINTENANCE

LUBRICATING THE DRIVE CHAIN

The drive chain needs to be properly lubricated in order for the mini bike to operate properly. Normal use of the mini bike will cause the chain to dry and rust over time, therefore it is necessary to lubricate the chain as part of routine maintenance. Follow the steps below to lubricate the drive chain:

1. Park the mini bike on a firm, level surface and turn the engine stop switch to the "off" position.
2. Using chain lubricating oil or any lightweight lubricating oil, apply oil to the drive chain visible on the rear sprocket with either a spray on applicator or an oil can. Take a rag and wipe off any excess oil with a rag.
3. Rotate the rear tire until there is a new length of the drive chain visible on the rear sprocket. Repeat step 2 above to lubricate the new length of the drive chain.
4. Repeat steps 2 and 3 until you are comfortable that the entire drive chain has been lubricated.

MAINTENANCE SCHEDULE

	Each Use	1st Month or 20hrs	Every 3 Months or 50 hrs	Every 6 Months or 100 hrs	Every Year or 300hrs
Check Brakes	x				
Check Throttle	x				
Lube, check/adjust chain	x				
Check all nuts and bolts for tightness	x				
Engine Oil	Check	x			
	Replace		x		
Air Filter	Check	x			
	*Clean		x		
	*Replace				x
*Clean Carb Sediment Cup			x		
Spark Plug	*Clean/Adjust			x	
	*Replace				x
Check/Adjust Idle Speed					x
*Check/Adjust Valve Clearance					x
*Clean Fuel Tank and Filter					x
Check Fuel Tube					x
Lube Centrifugal Clutch see page 12&13	Before & after each ride or as needed				

TROUBLESHOOTING

IF THE ENGINE DOES NOT START	
POTENTIAL PROBLEM	SOLUTION
Engine stop switch in "off" position	Turn the engine stop switch to the "on" position. See step 1 under Starting Your Mini Bike on page 4 for more information.
Fuel valve switch in the "off" position	Turn the fuel valve switch to the "on" position. See step 2 under Starting Your Mini Bike on page 4 for more information.
Improper choke operation	Ensure that the choke lever is in the correct position. See steps 3 through 7 under Starting Your Mini Bike on page 4 to ensure you are operating the choke correctly.
Empty fuel tank	Add fuel to the fuel tank. See Adding Fuel on page 5 for refueling instructions.
Flooded engine	Clear the flooded engine. See Clearing A Flooded Engine on page 6 for relevant instructions.
Clogged fuel cap vent	Clean the fuel cap vent. See Cleaning The Fuel Cap Vent on page 7 for relevant instructions.
Contaminated fuel system	See Removing Sediment From The Fuel System on page 6 and Adding Fuel on page 5 for more information.

TROUBLESHOOTING

IF THE MINI BIKE IS NOT PERFORMING WELL	
POTENTIAL PROBLEM	SOLUTION
Incorrect oil level	Ensure oil is at the proper level. See Checking And Adding Engine Oil on page 7 for more information.
Use of poor quality fuel	Drain the tank and refuel the mini bike with a higher octane fuel. See Removing Sediment From The Fuel System on page 6 and Adding Fuel on page 5 for more information.
Dirty air filter	Clean the air filter. See Cleaning The Air Filter on page 8 for relevant instructions.
Low or flat tire	Refill, repair, or replace the tire. See Tires on page 10 for more information.
Excess drag on the engine	Perform a rear brake adjustment. See Adjusting The Brakes on page 9 for more information.

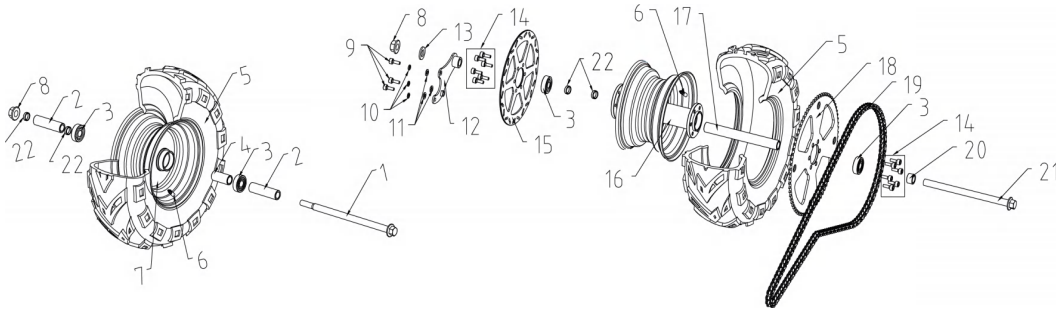
IF THE MINI BIKE DOES NOT STOP	
POTENTIAL PROBLEM	SOLUTION
Unresponsive brakes	Perform a rear brake adjustment. See Adjusting The Brakes on page 9 for more information.

IF THE MINI BIKE HANDLES POORLY
Never ride a mini bike that has handling problems. Poor handling is an indication of a bent rim, a damaged frame, or damaged forks. These problems need to be fixed by an Authorized Service Center for repair.

SPECIFICATIONS

RECOMMENDATIONS	
Recommended Age	13+
Recommended Max Weight	165lb
Recommended Fuel Type	Unleaded 87 Octane Gasoline
Recommended Engine Oil Type	SAE 10W-30
SPECIFICATIONS	
Engine Displacement	105.3 cc
Strokes per Cycle	Four Stroke
Cylinder Head Configuration	Overhead Valve (OHV)
Transmission	Automatic Centrifugal Force Clutch
Maximum Speed	23 mph
Starter Type	Pull Start
Fuel Tank Capacity	0.32 gal
Oil Tank Capacity	12 oz
Spark Plug Gap	0.6 - 0.7 mm
Brake Type	Cable Rear Disc
Tire Pressure	10 psi
Number of Cylinders	1
Valves per Cylinder	2
Rated Torque	3.4 lbft @ 3,600 rpm
Horsepower	3.5 hp
Bore and Stroke	54.0 mm x 46.0 mm
Number of Carburetors	1
Number of Barrels per Carburetor	1
Basic Ignition Timing (10°, Electronically Controlled)	UNADJUSTABLE
Gear Ratio	6.818
Compression Ratio	8.5:1
Valve Clearance	inlet valve 0.10-0.12mm exhaust valve 0.12-0.15mm (cold)
Idle Speed	1,850 +/- 50 rpm
Final Drive	Chain
Number of Teeth in Front Sprocket	12
Number of Teeth in Rear Sprocket	75
DIMENSIONS	
Assembled L x W x H	50" x 26" x 33"
Assembled Weight	78 lb
Carton L x W x H	39" x 15.0" x 25.75"
Carton Weight	88 lb
Wheelbase	36.5"
Ground Clearance	4.5"
Seat Height	23.0"
Front and Rear Tire Size	145/70-6 Pneumatic
Front and Rear Rim Size	6.0"
Turn Radius	122.0"

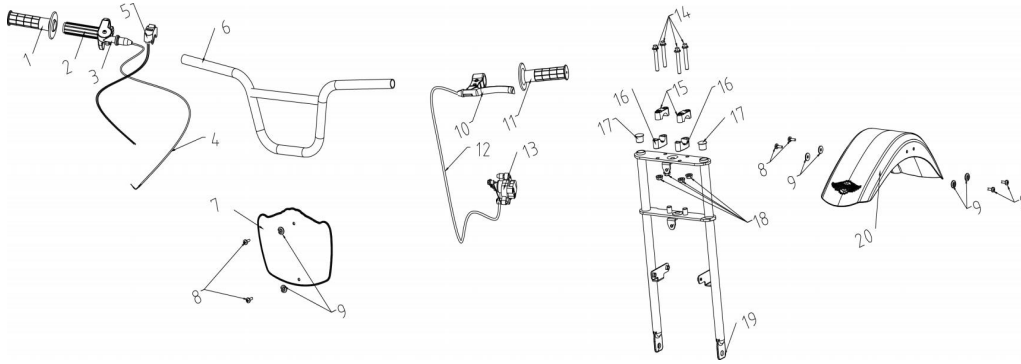
PARTS



Wheels/Tires and Related Hardware

Item No.	Description	Qty	Item No.	Description	Qty
1	Axle, Front No Shock M12X1.25x215	1	12	Bracket, Rear Brake Caliper	1
2	Spacer,Front Axle Φ18X12.5X67	2	13	Washer,Flat--Black Φ12	1
3	Bearing,F/R Wheel 6201RS	3	14	Bolt,SHCS Black M6x1x12	12
4	Spacer,Front Wheel Inner Brg Φ12.5x18-40	1	15	Brake Rotor	1
5	Tire,Tubeless 145/70-6 Off Road--Includes Valve	2	16	Rim, Rear Steel Black-6"	1
6	Tire Valve	2	17	Spacer,Inner Bearing Rear Wheel Φ12.5x18x160	1
7	Rim, Front Steel Black-6"	1	18	Sprocket, 82 T 06C	1
8	Nut,Locking M12x1.25	2	19	Chain, 06C 134 Link	1
9	Bolt,SHCS Black M6x1x16	3	20	Spacer,Rear Axle-Left Φ18X12.5X12	1
10	Washer,Lock--Black Φ6	3	21	Axle, Front Susp/Rear All M12X1.25x255	1
11	Washer,Flat--Black Φ6	3	22	Grommet,Rubber Inner Wheel Spacer Φ28.7*Φ17*4	4

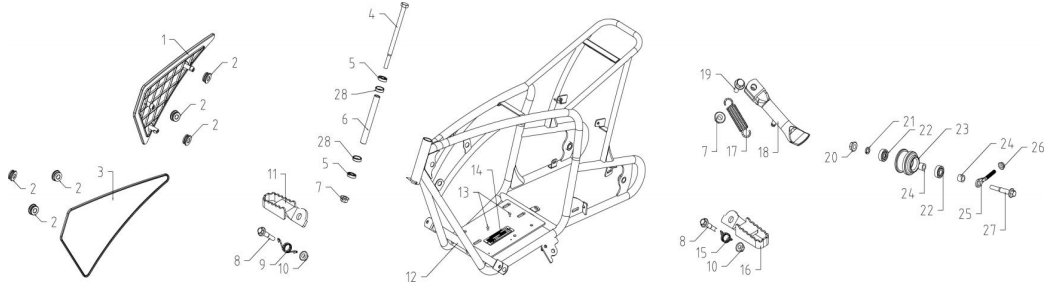
PARTS



Front Fork Related and Handle Bars and Controls

Item No.	Description	Qty	Item No.	Description	Qty
1	Throttle Sleeve	1	11	Grip,Left	1
2	Grip, Right (Includes throttle Sleeve)	1	12	Cable, Brake	1
3	Throttle Control Housing	1	13	Brake Caliper--Red	1
4	Cable, Throttle	1	14	Bolt,Flanged Black-M8x1.25x55	4
5	Switch, Engine Kill	1	15	Clamp,Upper Handle Bar Riser	2
6	Handle Bar	1	16	Clamp,Lower Handle Bar Riser	2
7	Number Plate		17	Plug,Rubber	2
8	Bolt,Phillips Head M6x1.0x16	6	18	Nut,Locking Flanged - M8X1.25	4
9	Washer,Nylon--Black	1	19	Front Fork	1
10	Brake Lever--Aluminum	3	20	Fender,Front	1

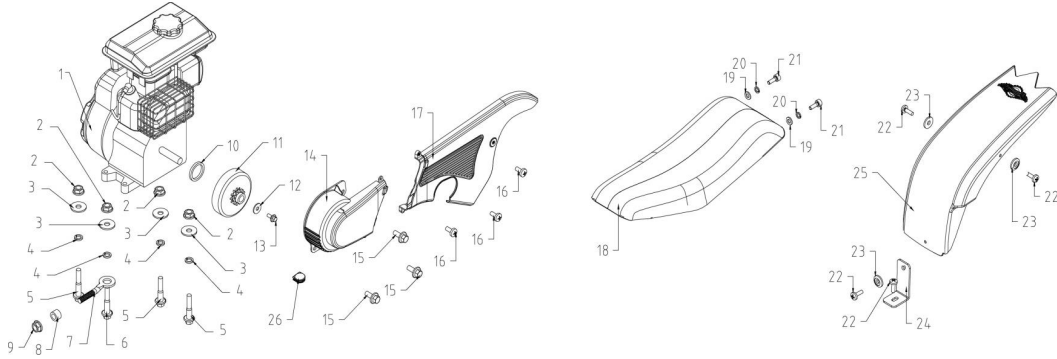
PARTS



Frame Related-Plastics

Item No.	Description	Qty	Item No.	Description	Qty
1	Frame Cover Plastic-Right	1	15	Spring,Left Footrest	1
2	Grommet,Rubber	2	16	Footrest,Left	1
3	Frame Cover Plastic-Left	3	17	Spring,Kickstand	1
4	Bolt, Fork Stem-Flanged Black-M10x1.25x155	1	18	Kickstand	1
5	Bearing, Fork Stem 6900-RS	2	19	Bolt,Flanged Black M10x1.25x30	1
6	Spacer,Inner Bearing Fork Stem Φ 15X10.5X118	2	20	Nut M8x1.25	1
7	Nut,Locking Flanged M10x1.25	1	21	Washer,Lock Black Φ 8	1
8	Bolt,Flanged Black M8x1.25x45	2	22	Bearing, Roller Wheel 608-RS	2
9	Spring,Right Footrest	3	23	Roller Wheel, Chain Adjuster	1
10	Nut,Locking Flanged M8x1.25	3	24	Spacer,Eng Adj/Chain Adj 14X8.5X9	2
11	Footrest,Right	3	25	Bolt,Chain Adjuster Φ 8.5*55-M6x1.0	1
12	Frame,Black	3	26	Nut M6x1.0	1
13	Rivit, VIN Plate	3	27	Bolt,Flanged Black-M8x1.25x55	1
14	VIN Plate-USA 2018	3	28	Grommet,Rubber Φ 17* Φ 14*5	2

PARTS



Frame Related-Plastics

Item No.	Description	Qty	Item No.	Description	Qty
1	Engine Assembly--105cc Lifan	1	14	Chain Cover-Front	1
2	Nut,Locking Flanged M8x1.25	4	15	Bolt M8X1.25x12	3
3	Washer,Flat Black Φ 8	4	16	Bolt,Phillips Head M5x0.8x10	3
4	Washer,Lock Black Φ 8	4	17	Chain Cover- Rear	1
5	Bolt,Flanged Black M8x1.25x40	3	18	Seat--(Specify Color)	1
6	Bolt,Flanged Black M8X1.25X50	1	19	Washer, Plastic Φ 6	2
7	Bolt,Engine Adjust - Φ 10*65-M8x1.25	1	20	Washer,Lock--Black Φ 6	2
8	Spacer,Eng Adj/Chain Adj 14X8.5X9	1	21	Bolt,SHCS Black M6x1x16	2
9	Nut,Locking Flanged - M8X1.25	1	22	Bolt,Phillips Head M6x1.0x16	3
10	Spacer,Clutch Φ 44 x15x5 (Lifan)	1	23	Washer,Nylon	3
11	Clutch Assembly-12T Bearing Type-2200 RPM (105CC)	1	24	Bracket, Rear Fender Mounting	1
12	Washer,Flat Fender Type A- Φ 6 (Lifan)	1	25	Fender,Rear	1
13	Bolt,Flanged 1/4-28UNF-18 (Lifan)	1	26	Grommet,Rubber-Clutch Access	1

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