



Wheelman[™]

off-road recreational vehicle

OWNER & ENGINE MANUAL



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Injury prevention is the anticipation, recognition and appraisal of the terrain, rider competence and vehicle maintenance. The techniques described herein are designed to reduce the risks of injury.

IMPORTANT SAFETY INSTRUCTIONS

WARNING!

Because Wheelman™ vehicles are new and novel recreational vehicles, some special safety precautions must be observed as with any new recreational pursuit requiring new co-ordination, balance and mastering of unfamiliar apparatus.

WARNING!

Your Wheelman™ vehicle is a one person vehicle.

Your Wheelman™ vehicle is an outdoor device only.

Do not allow other persons to be near or riding the vehicle without reading the owner's manual, safety precautions and warnings.

WARNING!

When you pull the starter grip, do not wrap the starting rope around your hands. Do not allow the grip to snap back, but guide the starter rope slowly back to permit the rope to rewind properly. Failure to follow this procedure may result in injury to hand or fingers and may damage the starter mechanism.

To reduce the risk of personal injury from loss of control do not use a Wheelman™ vehicle with incorrect or high rpm idle adjustment.

WARNING!

At correct idle speed, the rear wheel should not rotate .

For directions to adjust idle speed, see the appropriate section in your Engine Manufacturers Operating Instructions. If you cannot set the correct idle speed, find someone who can.

RIDING CONDITIONS

Operate your Wheelman™ vehicle under good visibility and daylight conditions only. Keep within calling distance of others in case help is needed.

It is a good idea to carry a cellphone and advise where you are going.

Take extreme care in wet and freezing weather (rain, snow, ice). Put off riding or using your Wheelman™ vehicle when the weather is windy, stormy or rainfall is heavy. Clear the area where you are riding.

WARNING!

Your Wheelman™ vehicle produces poisonous exhaust fumes as soon as the combustion engine is running. These gases (eg. Carbon monoxide) may be odorless and colourless. To reduce the risk of serious or fatal injury from breathing toxic fumes, never run the Wheelman™ vehicle indoors or in poorly ventilated locations.

The Wheelman™ vehicle comes fitted with a high performance Eton 2 cycle engine. If you follow these basic steps regularly you can expect years of clean, hassle free use.

AIR FILTER

- The air filter, if clogged, will reduce the engine performance. Clean the Air Filter every 4-6 hours of riding. Check and clean the filter element in warm, soapy water as required. With a small amount of your 2 cycle oil squeeze the element until it has a coating of oil through it. If the element is torn or has deteriorated, replace with a new one.

FUEL FILTER

- If the engine is running short of fuel, check the fuel cap and the fuel filter for blockage.

SPARK PLUG

- Starting failure and misfiring are often caused by a fouled spark plug. Clean the spark plug and check the plug gap.

For a replacement plug, use only.

- REPLACEMENT PLUG — NGK (BPM7A)
- CORRECT PLUG GAP — 20/1000 in

TIP: Using a spark plug other than specified may result in engine failure or damage.

To install new plug, first turn until finger tight, then tighten a quarter turn more with a 3/4" or 19mm socket.

MUFFLER

WARNING

Due to high operating temperatures, make sure that the engine has stopped and is cool before performing any service to the machine.

- Inspect regularly. Look for loose fasteners, any damage or corrosion. If exhaust leakage is found, stop using and have it repaired immediately.
- Note poorly maintained mufflers can cause fires.

BEFORE YOU BEGIN

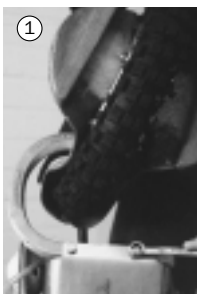
Are you a natural or goofy footer?

Natural = you naturally ride a skateboard / snowboard or surfboard with your **LEFT** foot in front.

Goofy = you naturally ride a skateboard / snowboard or surfboard with your **RIGHT** foot in front.

Your Wheelman™ vehicle can be easily converted to your preferred stance by removing the front connecting hook and positioning it back on the Wheelman™ vehicle from the opposite side.

TIP: Never ride or allow others to ride your Wheelman™ vehicle if the vehicle is not set up for the preferred stance.



- 1) Remove 2 bolts and nuts connecting pan to 'hook'
- 2) Remove large nut (3/4" or 19mm) and washer from rubber joint.
- 3) Flip 'hook' 180 degrees, replace large nut and washer. Tighten down firmly.
- 4) Refasten hook to pan bolts and tighten nuts.

You now have a right foot forward setup for you goofies!

FUELLING & PRIOR TO OPERATING

Gasoline is extremely flammable and its vapours can explode when ignited. Always stop the engine and allow it to cool before filling. Keep sparks and flames away from the area.

Add fuel in a clean, well-ventilated area. Avoid spilling the fuel when mixing the oil. Wipe up spilled fuel immediately. If fuel has been spilled allow it to dry completely before starting your engine.

Move unit at least 10ft (3m) from the fuelling point before starting the engine. Pressure can build up in the fuel tank. Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Store gasoline and fuel only in containers designed and approved for the storage of such materials.

Do not smoke or bring any fire or flame near the fuel or the Wheelman. Note that combustible fuel vapours may be vented from the fuel system.

Check for fuel leakage while refuelling and during the operation. If fuel or oil leakage is found DO NOT START OR RUN THE ENGINE until the leak is fixed and spilled fuel has been wiped away and dried completely. Take care not to get fuel on your clothing. If this happens, change your clothing immediately.

WARNING!

Unit vibrations can cause improperly tightened fuel cap to loosen or come off and spill quantities of fuel. In order to reduce risk of fuel spillage and fire, tighten fuel cap firmly by hand.

FUEL

Be sure to read these instructions carefully before attempting to start or operate this unit. Using old or improper fuel, or improperly mixing the oil or fuel can cause engine damage.

USE A 50:1 FUEL/OIL RATIO

USE ONLY A HIGH QUALITY SYNTHETIC 2 CYCLE OIL

How to Mix:

- Put a small amount of fresh gasoline into a clean 1 (U.S.) gallon (3.875-liter) fuel can.
- Add 2.65 ounces of synthetic 2-cycle oil.
- Fill the remainder of the fuel can with gasoline (1 gallon).
- Screw the cap of the fuel can on tight, and SHAKE FOR 30 SECONDS.

TIRE PRESSURE

REGULAR CHECKING OF TIRE PRESSURE IS CRITICAL TO THE PERFORMANCE OF YOUR Wheelman™ vehicle

TIRES: 10 X 250 MAX 30psi MIN 10psi **RECOMMENDED 20psi**

NOTE: LOWER TIRE PRESSURE WILL AFFECT DRIVE MEMBER EFFICENCY ADJUSTMENT OF TIRE PRESSURE

Adjust tire pressure to suit surface being ridden on.

ie: for stones and rough stuff a lower pressure is more comfortable to absorb bumps.

Tip: Drive member slippage is due to low tire pressure. Rectify by increasing tire pressure.

BEFORE YOU RIDE

- (1) Check rubber joint front member for wear or possible failure
- (2) Check accelerator control and assembly make sure operation is smooth and responsive. Idle speed is correct.
- (3) Check scuff pads for wear. Rotate or replace as required.
- (4) Airfilter – check and clean.
- (5) Re-fuel your Wheelman. It's more fun to ride than it is to carry!
- (6) Put your safety gear on, Helmet, Shin Guards, and appropriate shoes.
- (7) If you are going on Safari it's a good idea to take a back pack that may contain a drink, food, more fuel in an approved container, cell phone and a spark plug spanner.
- (8) Check the Emergency Stop system is attached to the machine. Be sure to attach the clip to clothing.

ARE YOU READY?

ALWAYS position the Wheelman™ vehicle according to preferred foot forward set up.



Left Foot Forward



Right Foot Forward

With the Wheelman™ vehicle configured to your preferred foot forward stance the hook will be resting on the ground.

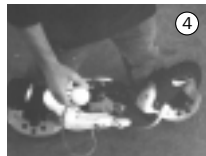
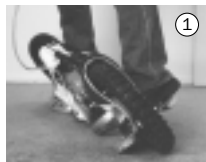
1. Place back foot on back step and front foot on front step. While keeping scuff pads on the ground for ease of balance. There is no need to jam your feet in too far. You need to find a happy medium where you are able to step out of the machine easily when necessary.

2. Push down on your front foot heel, observe the transverse flexibility of the Wheelman™ vehicle - this provides a degree of ergonomics, versatility and stability on contoured and rough terrain.

3. Stand with your body weight more over the front wheel than the rear wheel - Pivot your body about a vertical axis - front leg and ankle too. This action is used to maintain balance and steer the Wheelman™ vehicle at low speeds.

4. At some point at an increased velocity this conscious action is no longer required. Practice this movement and manipulation of the Wheelman™ vehicle steering mechanism to familiarise yourself with this new to you co-ordination.

TIP: TAKE YOUR TIME



START YOUR ENGINE

1. To control and hold the Wheelman™ vehicle while starting engine and warm up, place the rear foot on rear step. Hold Accelerator/Brake controller in hand to assist engine on start up.



Tip: Attach Safety Cable to clothing prior.

Follow engine manufacturer's preferred start up method detailed in Engine Manual at rear of this Manual.

MOVING OFF

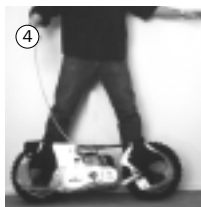
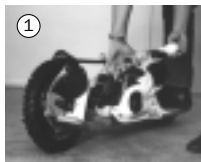
- 1.** Push down on front heel. Ride the front wheel.
- 2.** Squeeze accelerator trigger (smooth and steady).
- 3.** Push down on rear heel.
- 4.** Stand up straight, eyes forward (not down).

This will take some practise to achieve smooth take off.

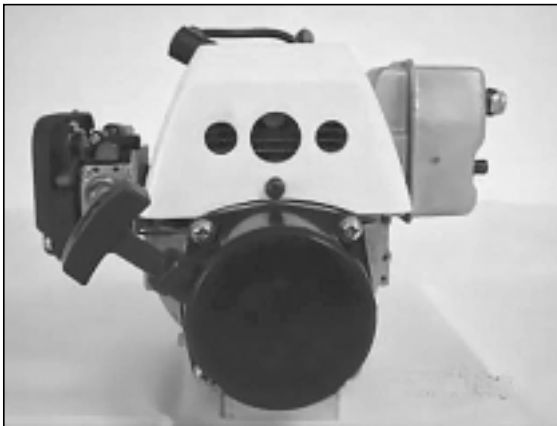
Tip: It is important to apply acceleration BEFORE you push down on your rear heel. This will provide you with instant forward motion and achieve balance early.

STOPPING

- 1.** Apply handbrake by squeezing lever on controller.
- 2.** Use Emergency Stop System.
A cord with a clip is attached to this magnetized key. Before starting, attach the clip to clothing. To stop driving in an emergency situation, pull the cord.
- 3.** Decelerate and press rear toe scuff pad to ground.



ENGINE MANUAL



CAUTION THIS MANUAL MUST REMAIN WITH YOUR Wheelman™ vehicle

Before using your engine please read this manual carefully to understand the proper use and maintenance of the unit.

PRECAUTIONS FOR SAFE OPERATION

1. Turn off the engine before refuelling and always keep it away from fire and other combustible materials.
2. Your Wheelman™ vehicle is an outdoor only vehicle. Avoid running the engine indoors. The exhaust gases contain harmful carbon monoxide.
3. The starting pulley, drive pulley, and all other moveable parts should be protected by a cover for safe operation.
4. Do not touch the muffler / engine body during operation and for two (2) minutes after the engine turns off.
5. To avoid electric shock, do not touch the conductive parts such as spark plug cap and main wires.
6. To protect the engine, be sure to cover it when not in use. Remember to check that muffler and engine body have cooled before covering.
7. Periodical inspection and maintenance is important for the prevention of engine trouble, injury and fire. Pay particular attention to the regular cleaning of muffler, cylinder, spark plug, and exhaust outlet.

PREPARATION FOR OPERATION

The following steps are important and must be followed prior to starting.

STARTING THE ENGINE

1. Push red starter lever in until it locks into position.
2. Depress purge bulb many until fuel drains out of overflow tube. (The purge bulb should be at least 2/3 filled with fuel)
3. Pull out the starter rope quickly.
4. After engine has started to release choke use the throttle trigger.

NOTE

Once engine has started with choke on, it may stall. If you want to restart the engine immediately, move the red choke lever to the "ON" position and pull out the starter rope quickly until the engine starts.

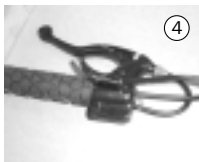
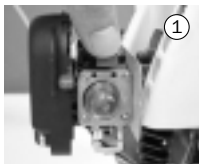
5. Run it for 2 to 3 minutes to warm up the engine, turn red choke lever to off position. (Idle rpm)

NOTE

Tip: Don't accelerate the engine rapidly once you start it, allow 2-3 minutes to ensure engine is lubricated.

Tip: If the throttle valve is set at the highest speed, the engine may be damaged and shorten its life. Avoid the unloaded operation at high speed (racing) and also never operate the engine in excess of its rated revolution.

Tip: Check the fuel tank and remember to refill it before it drains completely. Too little fuel may cause failure at start up.



BREAK-IN YOUR ENGINE DON'T BREAK IT!

During the first two weeks of riding, run your new vehicle tenderly. Don't run very fast and don't approach the maximum rpm.

Following these guidelines will greatly enhance the long-term power and life of the engine.

STOP ENGINE

After long periods of running, allow engine rpm to reduce to the lowest. (2-3minutes)

1. Push the red stop button or release Safety Cord.

ADJUSTMENT OF CARBURETOR

2. The new engine needs no carburetor adjustment.

To alter the new carburetor. Adjust the slow speed by the idle adjusting screw. A clockwise turn will make the speed higher and a counter-clockwise turn will make it lower.



PERIODICAL MAINTENANCE

1. Daily Inspection

Check all the bolts and nuts for looseness.

Check for fuel or gas leak.

2. Maintenance Schedule

Perform the Pre-ride Inspection at each scheduled maintenance period.

SIGNAL GUIDE ■ INSPECT / CLEAN ■ CHANGE
 ITEMS START 25 Hrs 50 Hrs 100 Hrs

ITEMS	START	25 Hrs	50 Hrs	100 Hrs
FUEL INSPECT	■			
BOLTS INSPECT	■	■	■	■
AIR CLEANER CLEAN		■	■	■
SPARK PLUG INSPECT		■	■	■
FUEL TANK CLEAN				■
CYLINDER BOLTS				■
ENGINE ALL BOLTS				■
FUEL STRAINER		■	■	■
CHAIN		■	■	■

LONG-TERM STORAGE

When shutting down the engine for long periods, the following maintenance procedures are necessary for smooth restarting.

Drain fuel from tank.

Start engine and leave running until it stops.

Remove the spark plug and fill 1-2 cc of two-cycle oil. Draw the starter rope 2-3 times, and reset the spark plug.

Apply anti-rust material to the metal parts such as the throttle wire, and keep the engine in a moisture free place.

Clean the fuel strainer and suction pipe using gasoline.

TROUBLE SHOOTING**START FAILURE**

Make sure open the fuel cock.

Check if the fuel mix contains water.

Check if the engine has absorbed excessive fuel.

Check if air cleaner has pinning.

ENGINE STARTS BUT FAILS TO RUN AT HIGH SPEED

Check if the choke is fully open.

Check is the mixture at correct ratio.

Check if the fuel mix contains water

ENGINE RUNS BUT FAILS TO DISPLAY FULL OUTPUT

The air cleaner element may be fouled.

The exhaust outlet and muffler may be choked by carbon layer.

ENGINE FAILS TO RUN SMOOTHLY

The air vent hole of fuel tank cap may be clogged with dirt.

Fuel flow may be slowed due to sludge or dirt in tank.

Water may be mixed in fuel.

ENGINE CAN RUN AT HIGH SPEED BUT STALLS AT IDLE

Check plug for carbon build up.

Check. is the fuel mixture correct.

Check engine for leaks.

Check wiring for loose connections.

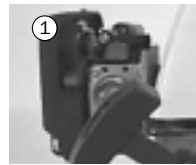
STARTER ROPE IS DIFFICULT TO PULL

Check air cleaner for fuel leakage.

Check. Is rope fouling through rope guide resulting in grabbing.

MAINTENANCE**1. AIR CLEANER.**

The air cleaner will accumulate dust and must be cleaned periodically. A dirty air cleaner will decrease the output capacity. If riding in a dusty atmosphere, the filter must be cleaned more frequently. If fouled with dirt, remove the air cleaner cover, and remove the filter from the cleaner case. Check and clean the filter element with warm soapy water as required. Dry completely before installing. If the element is broken or shrunk, replace.



NOTE: A clogged air filter may increase fuel consumption while cutting down the engine power. Operation without an air filter or with a deformed filter element will quickly ruin the engine.

FUEL STRAINER

A clogged fuel filter may cause rpm fluctuations.

Remove the fuel strainer and change the fuel strainer.

NOTE: Ensure fuel strainer is of a good quality. Ensure only clean fuel is used. A dirty oil mix will result in a continual oil leakage into air cleaner and redundant oil can enter the engine body and combustion chamber resulting in the engine being difficult to start.

2. SPARK PLUG

Remove and inspect the spark plug. Clean the electrodes as necessary with brush. The spark gap should be adjusted to 0.6 - 0.7mm

When replacing spark plug use specified products only.



SPECIFICATIONS: 2-CYCLE ENGINE

Fuel Used: Lubricating oil mixed gasoline. Mixing rate 30:1

Lubricating oil used: 2-cycle synthetic engine oil

Starting method: Recoil starter

Cylinder arrangement: single

Bore - stroke(mm): 40 x 33

Displacement(cc): 41.5

Compression ratio: 6.1

Max power ps/rpm: 2.2 ps/7000 rpm

Max torque nt-m/rpm: 2.5 nt-m/5000 rpm

Lubrication system: Lubricating oil mixed gasoline

Restrict velocity unit: Spark times control

Cooling system: Force air cooling

Stopping: Sparking circuit primary short

Carburetor: Rotary valve

Air cleaner: Dry type

Idle speed: 3000 ± 200 rpm

Sparking method: C.D.T

Transmission method: Automatic centrifugal clutch

Spark plug type: BPM7A/CJ6Y/BPM6Y

Spark gap(mm): 0.6~0.7

Net weight (kg): 3.3




Wheelman®