

Pre-Ride Inspection



Perform a pre-ride inspection prior to every ride.

Rear Brake Wear

There is a wear indicator installed on the brake actuator shaft. When the opening on the indicator lines up with the triangle on the engine case, your brake shoes have worn beyond the usable range and should be replaced.

Failure to replace the brake shoes can result in damage to the hub and a loss of braking ability.

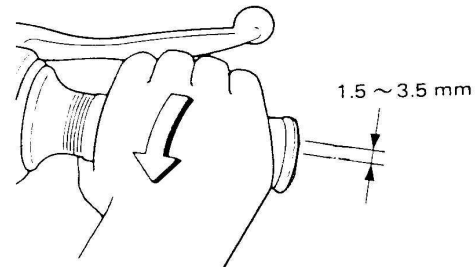


Throttle

Check the throttle cable for ease of movement by turning the twist grip from fully closed to fully open.

Move the handlebar left to right to ensure throttle is not applied when bars turn.

Measure throttle free-play by opening the grip slightly until resistance can be felt. **Throttle free-play: 1.5 - 3.5 mm**



Adjust throttle as necessary to ensure proper free-play. Lubricate throttle cable tube and cable ends to ensure ease of operation.

WARNING

An improperly adjusted throttle, non-lubricated or binding throttle cable is an extremely dangerous condition that can result in loss of control of your vehicle. Maintain and inspect frequently.

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Engine Oil -

Genuine Motor Oil is the oil brand recommended by Genuine Scooters. Your scooter has a high-performance engine and requires very specific lubricant to withstand the high RPM and heat generated during operation.

Only use JASO FD rated 2-stroke oil in your engine.

All other oil may severely damage your engine and void the warranty. All JASO rated oils will display the JASO oil classification on the bottle within an outlined border. Above the rating, a 9 character oil code provided by JASO will be displayed. This oil code is in the following format ###ABC###.

Many oils claim to "meet or exceed" JASO ratings. If an oil does not have the 9 character oil code and the JASO FD rating prominently displayed on the label (either front or back) then the oil has NOT officially been tested by JASO. All JASO FD oils will be full synthetic or semi-synthetic blends.

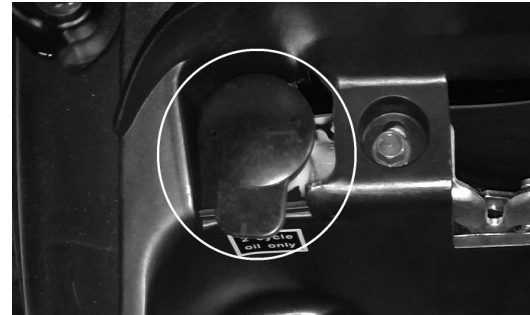


CAUTION

Using oil that is below JASO FD rating and of poor lubricity will damage your engine over time and void your warranty.

Engine Oil Fill

The engine oil fill access door is located near the fuel cap under the seat. Remove the cap and fill oil tank with JASO FD 2-stroke engine oil. Replace cap and access door.



Check oil level prior to each ride. Fill as necessary. If the oil light on the dashboard illuminates while riding, stop the vehicle immediately and fill oil tank.



CAUTION

If your vehicle is operated without engine oil, severe engine damage will occur.

Pre-Ride Inspection



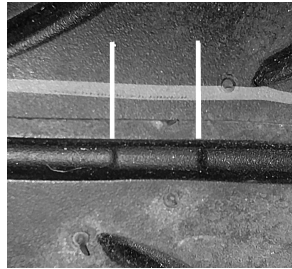
Perform a pre-ride inspection prior to every ride.

Tires

Perform a physical inspection of both the front and rear tire.

Inspect the tread depth to gauge tire wear. Locate the initials T.W.I. on the tire sidewall. This is the location of the Tread Wear Indicator. Move inward toward the center of the tire to find the raised portion of the tire groove. This is the Tread Wear Indicator. Replace tire when tread wear indicators come in contact with the road surface.

Inspect the tire for foreign material such as nails, screws, glass or other objects that may have become lodged in the tire. Visit a Genuine dealer for tire replacement if necessary.



Tire Pressure

Perform tire pressure checks while the tires are cold:

- Remove the valve caps.
- Check the tire pressure.

Standard Tire Pressure

Front: 28 psi

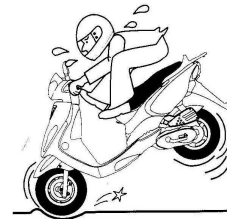
Rear: 28 psi

- Adjust the tire pressure according to the total weight load.
- Re-install the valve caps.



WARNING

Never exceed the rated total weight or the bearing capacity of the tires. Incorrect tire pressure will have a considerable effect on the riding properties of the scooter and can cause an accident.



TIRE PRESSURE TOO HIGH



TIRE PRESSURE TOO LOW

Pre-Ride Inspection



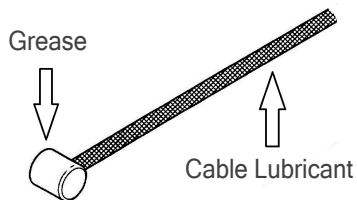
Perform a pre-ride inspection prior to every ride.

Cables

Check all cables for integrity, connection and lubrication. If any fraying or other cable damage is observed, replace cable immediately.

Use a cable specific lubricant on the braided portion of the cable.

Use waterproof grease on the cable ends and pivot locations.



Center Stand and Side Stand

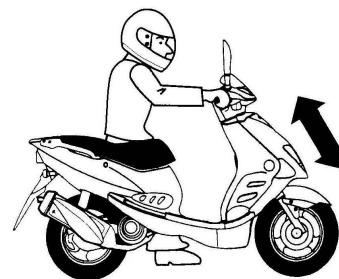
Inspect both the center stand and the side stand to ensure the mounting bolts securely fasten the stands to the frame and both stands are not loose.

Check spring tension to ensure stands will remain in stowed position when riding.

Assembly

Check all assemblies to ensure they are fastened tightly. This includes both a visual and physical inspection.

Visually inspect the engine, fork assembly, wheel assemblies, handlebar, and other critical components. Apply pressure in all directions for each assembly to check for unusual movement. If you notice any unusual vibration, shake or other indication that a problem may exist, have your vehicle towed to a Genuine dealer for inspection and resolution.



FUNCTION CHECK

Pre-Ride Inspection



Perform a pre-ride inspection prior to every ride.

Fuel System

Check your fuel level prior to each ride.

Fuel Tank capacity: 5 liters

Fuel specification: Unleaded 91 octane or higher

Do not fill your fuel tank over the neck-line on the fuel tank inlet.

Fuel expands under the influence of heat. An over-filled fuel tank can cause fuel to spill when the vehicle is warm.

Inspect your fuel system including tank, hoses, petcock and filter for leaks. If a leak is found, repair immediately.



WARNING

Both fuel and fuel vapor are highly flammable. Do not smoke or bring an open flame near the fuel tank. Explosions can occur.

Lighting

Lighting is a very important safety feature that helps you navigate at night and communicate your actions with other drivers.

Properly functioning lighting can make you more visible to other drivers, reducing the possibility of an accident.

Check the front and rear turn signal indicators, head light, tail - light, brake light, speedometer backlighting, and all indicator lights to assure they are in proper working order.

Make sure the lenses are clean of dirt and debris.

Switches

Check the function of all switches for lighting, signals, horn, etc. Repair as necessary.

Loading

Load your scooter properly. An improperly loaded scooter can cause an accident.

- Make sure the left-to-right weight distribution is balanced.
- Check that all fasteners are correct and tight.
- Do not transport bulky loads.
- Do not load your vehicle in a manner that covers lighting or impedes the movement of any vehicle component.

Operation



Vehicle Operation

Before starting your vehicle, you should be familiar with all operations and functions of this vehicle. You should have completed the pre-ride inspection, and you should be wearing safety gear.

If this is the first time you are operating your vehicle, you should thoroughly review the "Initial Engine Run-In" section on the next page.

If you have any questions, contact your Genuine dealer for assistance.

Vehicle Start Using Electric-Start Method

- 1) Ensure the kill switch is in the RUN position.
- 2) Insert the key into the Ignition Switch and turn to ON.
- 3) With the throttle completely closed, pull in either brake lever & simultaneously push and hold the start button. Once the engine starts, release the start button. Do not press and hold the start button for more than 5 seconds at a time as this can damage the start system.

If the vehicle has difficulty starting after pressing the start button for 5 seconds, release the start button. Wait 10 seconds between attempts. Try to start the vehicle again for up to 5 seconds at a time.

If your vehicle does not start after several attempts, start your vehicle using the kick start method.

Vehicle Start Using Kick-Start Method

- 1) Place vehicle on the center stand.
- 2) Ensure the kill switch is in the RUN position.
- 3) Insert the key into the ignition and turn to ON position.
- 4) Open the kick start lever footpeg.
- 5) Grasp both handlebar grips firmly, place your foot on the kick start lever footpeg, and kick downward in a rapid motion.
- 6) Kick repeatedly until engine starts.
- 7) After starting, return kick start lever footpeg to normal position.



NOTE

It is not necessary to hold the brake lever in when starting your vehicle with the kick-start method.

If your vehicle does not start after trying both the electric and kick start methods, you should contact your Genuine dealer for assistance.

Operation



Initial Engine Run-In

When your engine is new or when you have installed new engine components, it is very important to follow this run-in procedure. During this period of operation, each part within the engine will obtain proper operating tolerances. Following the run-in procedure will maximize the life of your engine.



CAUTION

During the first 500 miles of operation, avoid wide-open throttle operation or any operation that may cause high engine temperatures.

0 - 100 miles

Avoid opening the throttle beyond 1/2 throttle. Cool down the engine for 10 minutes, after every 30 minutes of operation. Do not operate at a constant speed; change your speed regularly.

100 - 300 miles

Avoid opening the throttle beyond 1/2 throttle for extended periods of time. Do not open throttle beyond 3/4 throttle.

300 - 500 miles

Avoid opening the throttle beyond 3/4 throttle.

Over 500 miles

Avoid long periods of wide-open throttle operation.

Engine Life

Your engine life is highly dependent upon how you operate and maintain your vehicle.

Your scooter is equipped with a CVT transmission and your engine will operate at maximum RPM when you are at maximum speed at wide-open throttle.

If you operate your scooter at maximum RPM for long periods of time, you will damage your engine. This is not considered normal operation.

Keep your maximum speed operation to short periods of time. If you are travelling a longer distance, slow or stop your vehicle regularly to allow the engine to cool.

The quality of oil that you use in your vehicle will also determine longevity. Please reference the Engine Oil section in this manual for the proper specification.



CAUTION

Operating your vehicle at wide open throttle for any long duration generates excessive heat which can damage your engine. Be aware of the length of full throttle operation and slow down periodically to allow the engine to cool especially in hot climates. Always use full synthetic or semi-synthetic JASO FD oil in your vehicle.

Operation



Engine Warm-Up

After engine start, allow the engine to come up to operating temperature by idling the engine for at least 1 minute and then using mild acceleration during the first 3 minutes of operation.

While the engine is warming up, sit on the scooter and adjust the rearview mirrors to be able to see clearly behind you from both the right and left sides.

Riding

After engine warm up, you are ready to ride. Be sure you have completed the pre-ride checklist before each ride.

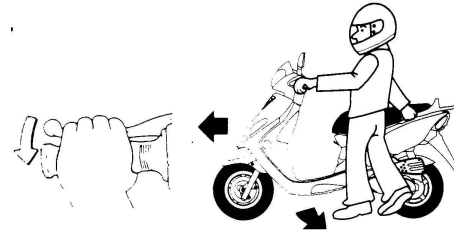
Use the throttle for controlling the general speed of your vehicle.

Use the brakes for slowing and stopping your vehicle.

Use the handlebars to control the direction of the vehicle.

Rider inputs will determine the behavior of the vehicle. Make sure you take into account the weather, riding surface, traffic and all other circumstances that may alter the amount of time it will take to accelerate, stop and turn your vehicle.

Hold the rear brake lever and push the vehicle forward off of the center stand.



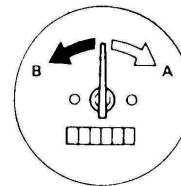
Throttle

Gradually turn the throttle to accelerate.

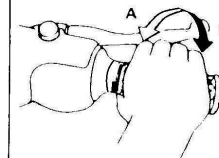
A) Turning the throttle toward your body will increase your speed.

B) Turning the throttle away from your body will decrease speed.

Speedometer



Throttle Direction



Operation



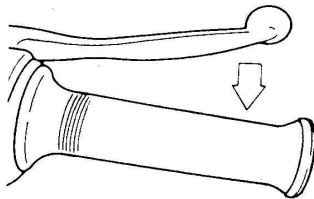
Braking

You should be prepared to use your brakes at all times. Unexpected behavior of fellow motorists, road debris, animals and other obstacles can arise without notice. Becoming familiar with and actively covering your brakes while riding can drastically reduce braking distances and improve safety.

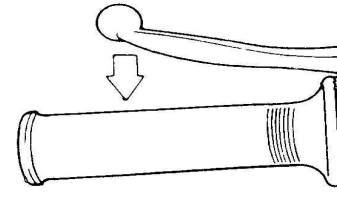
Applying the brakes

1. Release the throttle
 2. Gradually pull the brake lever(s) toward the handlebar to apply the brake.
- Applying both brakes simultaneously will result in a shorter stopping distance than actuating either brake individually.

The right-hand brake lever actuates the front brake.



The left-hand brake lever actuates the rear brake.



WARNING

Applying the brake lever abruptly or forcefully can cause the wheel to stop suddenly which can result in a loss of control of your vehicle. This effect is more prominent when the road surface is wet, covered in dirt or other debris, or you are traveling over metal objects. Always maintain acute awareness and full control of the braking force you are applying. Consider all environmental circumstances when braking.

Operation



Engine Stop

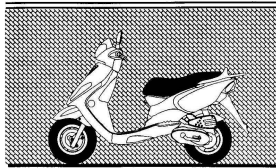
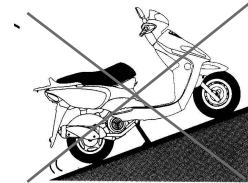
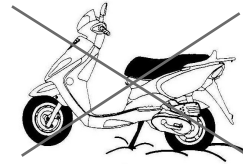
To stop the engine, turn ignition key to OFF.
Remove the key.

It is not recommended to use the kill switch for normal engine stops. Leave the kill switch in the RUN position under all normal vehicle operation. Use the kill switch for emergency engine stops.

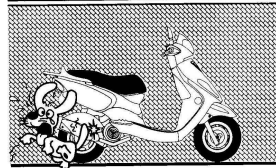
Parking

Park your vehicle with the exhaust facing away from any pedestrian traffic.

Consider the firmness of the parking surface and any incline that may cause your vehicle to fall over.



Correct



Incorrect

Place vehicle on the center stand whenever possible for the most stability.

If possible, park in front of larger vehicles so they can visibly see your parked vehicle.

Periodic Maintenance



Periodic Maintenance and Repair

To ensure safe and effective performance of your vehicle, please check, adjust and lubricate your vehicle periodically. Safety should be every rider's priority and the maintenance table provided is an important guide.

Your vehicle is designed to be operated on normal paved surfaces. If you operate your vehicle in dusty, dirty and/or wet conditions, you will need to alter the maintenance frequency to account for the harsh operating conditions.

Failure to increase maintenance under harsh conditions will result in damage to the engine and other critical vehicle components.

If you are not technically skilled enough to perform any specific maintenance task, you should have the maintenance completed by an authorized Genuine dealer.

Periodic Maintenance Table

The following two pages contain a periodic maintenance table. Please review this thoroughly and follow all maintenance procedures as scheduled.

Once your vehicle exceeds the distances posted in the maintenance schedule, continue with the same periodic intervals for each item on the table.

Periodic Maintenance Key

- Inspect, then clean, adjust, or replace as necessary
- Mandatory replacement
- * Service should be performed by a Genuine dealer

Periodic Maintenance Table



Item	Action	Months / Distance (miles)						
		1 mo / 500 miles	3 mo / 1,875 miles	6 mo / 3,750 miles	9 mo / 5,625 miles	12 mo / 7,500 miles	15 mo / 9,375 miles	18 mo / 11,250 miles
Engine Oil	Add JASO FD 2-cycle engine oil when oil tank is low. DO NOT wait for oil warning light. GENUINE MOTOR OIL is recommended.	Daily	Stop immediately and add oil if you see oil warning light					
Fuel	Add Premium unleaded fuel	Daily	Low tank - Add Premium Unleaded fuel - 91 octane or higher					
Air Cleaner	Clean housing, inspect gaskets, replace as needed		○	○	○	○	○	○
Air Filter	Inspect, replace every 4000 mi or sooner		○	■	○	■	○	■
Gear Oil *	Replace. Use 85w140 gear oil (90cc replacement volume, total 110cc)	■	■		■		■	
Disk & Drum Brake	Check for wear - replace brake pads, drum and/or discs as necessary. Check fluid level.		○	○	○	○	○	○
Transmission Variator / Clutch	Check rollers, sliders, clutch pads, and other transmission parts. Replace as necessary.		○	○	○	○	○	○
Rear Brake Arm	Check, adjust if necessary			○		○		○
Tires	Check for wear, replace as necessary		○	○	○	○	○	○
Axle / Wheel Bearings *	Tighten axle if loose. Check wheel runout / bearing free-play and replace if necessary.		○	○	○	○	○	○
Front Fork *	Check for leaks / functionality.	○	○	○	○	○	○	○
Steering Head Bearing	Check for play. Adjust if necessary.			○		○		○

Periodic Maintenance Table



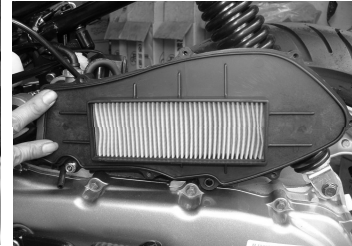
Item	Action	Months / Distance (miles)						
		1 mo / 500 miles	3 mo / 1,875 miles	6 mo / 3,750 miles	9 mo / 5,625 miles	12 mo / 7,500 miles	15 mo / 9,375 miles	18 mo / 11,250 miles
Rear Shock Absorber	Check for leaks / functionality	○	○		○		○	
Main / Side Stand	Check functionality, tighten, repair or replace as necessary	○	○	○	○	○	○	○
Nuts, Bolts, Fasteners	Tighten if required	○	○	○	○	○	○	○
Battery	Battery voltage should exceed 12.8V. Recharge the battery / clean poles if required.		○	○	○	○	○	○
Tire Pressure	Check and adjust when necessary	Check daily, adjust when necessary						
Carbon Cleaning *	Clean carbon build-up when engine output is reduced.			○		○		○
Spark Plug *	Set gap, clean or replace when required.		○	○	○	○	○	○
V Belt *	Inspect. Replace every 4,000 miles or sooner.		○	■	○	■	○	■
Fuel Supply System	Inspect for hose cracks, fuel filter blockages.	○	○	○	○	○	○	○
Engine Idle Speed *	Check engine idle speed set: 1900±100 rpm	○	○	○	○	○	○	○
Cables	Check and adjust free play. Lubricate.	○	○	○	○	○	○	○
Wiring	Inspect wiring for damage / connection integrity	○	○	○	○	○	○	○
Engine Compression *	Engine compression pressure check				○			○

Periodic Maintenance



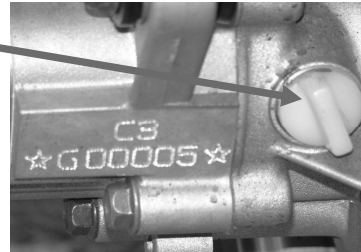
Air Cleaner and Air Filter

- Remove screws from air cleaner cover.
- Clean housing of dirt and debris with a clean cloth.
- Inspect gasket for integrity.
- Inspect air filter and replace if dirty or maintenance interval has been reached.
- Reinstall air filter and cleaner cover.
- Secure air cleaner screws.



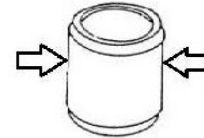
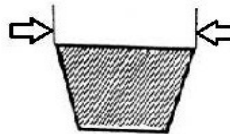
Gear Oil

- GENUINE MOTOR OIL is the lubricant brand recommended for use in your Genuine Scooter.
- Change the gear oil per the maintenance schedule.
- Check level periodically and inspect for leaks on the seals inside the transmission and on the output shaft near the rear wheel. If there is a leak, you will notice a build-up of oil and dirt. Resolve the leak immediately to prevent damage to the gear box.
- Normal gear oil change volume is 90cc
- **Gear oil specification 85W140**



Transmission

- Check the transmission for belt and roller wear.
- Rollers should not have major flat spots.
- Measure belt width to determine wear.
- Inspect belt for cracks, frays or other damage.
- Inspect clutch pads for wear, glazing.



Periodic Maintenance



Spark Plug

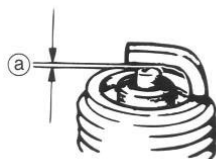
The spark plug is one of the most important parts of the engine and it is easy to inspect.

The condition and color of your spark plug can provide important clues about the running condition of your engine. The ideal electrode color of a properly running vehicle is light brown. If the spark plug is white or black and wet, there may be a problem with your vehicle that needs to be resolved. Ask your Genuine dealer for assistance.

Standard spark plug: NGK BPR7HS

- Inspect the spark plug electrode. Replace if you see damage or extreme wear to the electrode.
- Clean the surface of the spark plug gently to avoid damage.
- Measure spark plug gap.

Spark plug gap : 0.6 - 0.7mm



- Reinstall spark plug and torque.

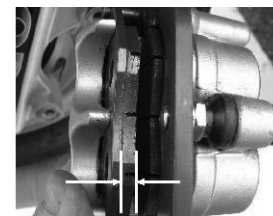
Torque: 11.7 N-m (8 ft-lb)

Front Brake Check

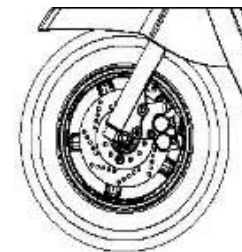
Actuate the front brake for inspection. Observe the grooves in the pads. If the groove is gone or nearly gone, your brake pads need to be replaced.

- 1 Visually determine if the brake pads are worn to the bottom of the groove or measure the pad thickness.

If pad thickness is less than 2mm, replace the brake pads.



- 2 Visually inspect the brake rotor for scratches, warping, hot-spots, or foreign material. Any significant damage can indicate there is a problem with your brake system. Have your vehicle inspected immediately by an authorized Genuine dealer if any damage is observed.



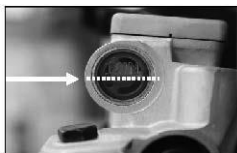
Periodic Maintenance



Brake Fluid Check

Insufficient brake fluid will allow air into the brake system and may cause the brake system to fail. Please check the brake fluid level regularly and refill it if necessary.

1. When checking the fluid level, please turn the handle bar to ensure the brake fluid indicator is horizontal.



2. Only use specified brake fluid, otherwise the oil seals will deteriorate. Deterioration can cause fluid leaks & loss of brake function.

Standard brake oil: FMVSS DOT4.



Caution: Do not mix brake fluid types.

3. Clean up any spilled brake fluid immediately with clean water. Brake fluid will erode painted surfaces and/or plastic.
4. If any problems are noticed with the fluid color, volume, leaking or any other problem with the brake system, have your Genuine dealer inspect immediately.

Suspension

Suspension is very important in vehicle stability. Malfunctioning suspension can cause your vehicle to behave in an unpredictable manner. Check regularly.

1. Check the inner surface of the front fork and rear shock for any wear, damage, or leakage.
2. Park the vehicle on a flat surface prior to inspection. Hold the handlebar and keep the vehicle in a vertical position. Apply the front brake.
 - Press and release the vehicle's front fork several times to check the front fork.



- Hold the rear grab-rail and press up and down several times to check the rear shock.



Caution

If the suspension functions are not smooth or any component is damaged, immediately contact your authorized Genuine dealer.

Periodic Maintenance



Fuse Replacement

1. The main fuse is located next to the battery inside the floorboard section.
2. In the event of a broken fuse, disconnect the main switch and any switch connected to circuits that have failed. Install a new fuse corresponding to the correct Amperage. Turn on the switch to check the function. If the new fuse burns immediately, contact your authorized Genuine dealer for service.



Caution

Do not use fuses that are out of specification compared to the original fuse. Any fuse installed that is not to specification can seriously damage the electrical system.

Battery

1. It is unnecessary to add any electrolyte or distilled water into the sealed battery installed on the vehicle. In case of any sign of leakage of battery acid, immediately contact your authorized Genuine dealer.
2. If the engine has difficulty starting, weak horn, dim lights, etc., remove the battery from the vehicle and follow the standard procedure to charge the battery.

Battery Maintenance

A trickle / maintenance charger is highly recommended if you do not use your vehicle on a daily basis. The battery will deplete over time if the vehicle is not run on a regular basis. Your Genuine dealer can recommend and install an appropriate charging device. You will be unable to start the vehicle with your electric start button if the battery has been depleted. Use the manual start option to start your vehicle.

Charge the vehicle's battery and fully disconnect the battery from the vehicle for long term storage such as winter. Store the battery in a warm location if possible. Charge the battery once every three months during this period.



Caution

Disassembling any sealed component on the battery can damage the battery. Never jump start the battery as this can damage vehicle electronics.

Periodic Maintenance Record



Warranty coverage is contingent upon proper maintenance of your vehicle. Please record all maintenance performed on your vehicle. Always ensure that you use Genuine recommended parts, accessories and fluids.

Maintenance Plan Mileage	Actual Mileage	Date	Dealer Signature	Maintenance Plan Mileage	Actual Mileage	Date	Dealer Signature

Technical Data



Engine		Chassis	
Type	Single Cylinder 2-stroke gas engine	Length	1803 mm / 71 in
Displacement	49cc	Width	635 mm / 25 in
Bore	40 mm	Height	1118 mm / 44 in
Stroke	39.2 mm	Wheelbase	1173 mm / 46.2 in
Compression Ratio	6.8:1	Curb Weight	87 kg / 196 lb
Cooling	Forced Air	Max Loading	108 kg / 238 lb
Lubrication Method	Separated Pump	GVWR	195 kg / 430 lb
Carburetor	Keihin	GAWR - Front	71 kg / 137 lbs
Idle Speed	1900 \pm 100 rpm	GAWR - Rear	124 kg / 298 lbs
Spark Plug	NGK BPR7HS	Front Tire	120/70-12
Electrode Gap	0.6-0.7 mm	Rear Tire	130/70-12
Start System	Electric and Manual Kick-Start		
Transmission		Electrical	
Type	Continuously Variable (CVT)	Ignition System	CDI
Clutch	Dry, Centrifugal	Generator	Flywheel Magnet Stator
Fluids		Battery Type	TX4L-BS
Engine Oil Type	JASO FD 2-stroke (2-cycle) oil	Main Fuse	15A Tube
Engine Oil Capacity	1.0 Liter		
Gear Oil Type	Hypoid-oil SAE 85W-140		
Gear Oil Capacity	110cc (90cc replacement volume)		
Fuel Type	Unleaded fuel, 91 Octane or higher		
Fuel Capacity	5 liters		

Warranty Information

Your vehicle is covered by a Manufacturer's Limited Warranty and an EPA Emissions Related Components Warranty. If you purchased your vehicle in the state of California, you are also covered by a California Emission Control System Warranty. Detailed warranty information can be found in your warranty booklet provided separately from this manual.

Reporting Safety Defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Genuine Scooter Company.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign.

However, NHTSA cannot become involved in individual problems between you, your dealer, or Genuine Scooter Company.

To contact NHTSA, you may either call the Vehicle Safety Hotline toll-free at 1-888-327-4236 / Hearing Impaired (TTY): 1-800-424-9153; go to <http://www.safercar.gov>; download the SaferCar mobile application; or write to Administrator, NHTSA, 1200 New Jersey Avenue, SE, Washington, DC 20590. You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>

This owner's manual should remain in your vehicle at all times for reference. This manual should be considered a permanent part of your vehicle. The information contained within this manual is the latest available at the time of publication. Genuine reserves the right to make changes to products and publications at any time without notice. There may be information in this manual that differs slightly from your vehicle as improvements and changes occur regularly.