GENUINE SCOOTER COMPANY



Owner’s Manual

Notice

This owner's manual contains important safety, operational and maintenance information. Any person operating or riding as a passenger on your scooter should carefully read and fully understand the entire contents of this manual prior to riding the vehicle. For your safety, follow all safety warnings contained within the owner's manual and the labels applied to your scooter. You should always keep this owner's manual in your vehicle, and it should be considered a permanent part of the vehicle.
If you have any questions, please ask your dealer for assistance.

Safety symbols and notes. Please observe the following:

WARNING	Failure to follow instructions with a WARNING symbol could result in serious injury or death. Precautionary measures are required.
CAUTION	Important instructions and precautionary rules to avoid damage to the vehicle. Non-observance can lead to an unsafe vehicle condition.
NOTE	Special instructions and precautionary measures for better handling during operation, inspection, adjustment and service activities.

WARNING California Proposition 65

Operating, servicing and maintaining a passenger vehicle or off-road 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. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

Introduction

Congratulations on your purchase of the Genuine Scooter Company Rattler 200i!

Please read this manual carefully prior to riding so that you will understand how to safely operate your scooter, understand its capabilities and limitations and become aware of all vehicle controls and features.

This manual contains important maintenance information. The efficiency and longevity of your scooter will depend heavily on your operating methods and periodic maintenance. Failure to follow instructions contained within this manual can reduce the efficiency and reliability of your vehicle. The first 500 miles are the most important in the life of your scooter. Proper break-in during this time will ensure maximum life. Please refer to the break-in section for specific break-in procedures prior to riding.

Your vehicle is covered by a Genuine Manufacturer's Limited Warranty and an EPA Emission Control System 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 which is provided separately from this manual.

To maintain your Genuine Manufacturer's Limited Warranty coverage and to provide maximum safety and enjoyment from your Genuine Scooter, use only Genuine approved parts, accessories, and lubricants. Genuine brand replacement parts are the exact parts that were originally installed on your vehicle. Genuine parts will provide you with maximum performance and longevity, giving you confidence and satisfaction that your vehicle is operating as it was designed.

Genuine Accessories - The addition of unsuitable accessories can result in unsafe operating conditions. Genuine, approved accessories have been designed for and approved by Genuine for use on your scooter. Installing unauthorized accessories on your vehicle may void your Genuine Manufacturer's Limited Warranty and may make your vehicle unsafe to drive. Your authorized Genuine Scooter Company dealer is the primary resource for information, parts and service. If you have any questions, please ask your dealer for assistance.

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Vehicle Safety

Accessories

The addition of unsuitable accessories can result in unsafe operating conditions.

Genuine Scooter Company approved accessories such as Prima brand have been designed for and approved by Genuine for use on your scooter. Always install Genuine approved accessories on your scooter. Your dealer can assist you in selecting and properly installing accessories.



Modification

Modification of your scooter or removal of original equipment may render the vehicle unsafe or illegal. Do not install any part or component where the principal effect is to bypass, defeat, or render inoperative any device or element of design installed on or in a motor vehicle or motor vehicle engine in compliance with regulations. Obey all applicable equipment laws and regulations. Only use accessories that have been approved by Genuine for this scooter.

Motorcycle Noise Regulation

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED

Federal law prohibits the following acts or the causing thereof: (1) The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW.

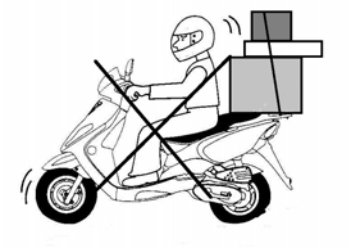
These acts include tampering with the following systems, i.e., modification, removal, etc.

Exhaust System - Muffler, Exhaust pipe, Silencer

Intake System - Air cleaner case, Air filter, Intake duct.

Properly Load Your Scooter

You and any passengers should utilize the floorboard and footrests for your feet. Do not exceed the load limits of the vehicle. Properly secure all cargo.



Maintain Your Vehicle

Perform maintenance as required per the maintenance schedule or as otherwise necessary to keep your scooter in a safe operating condition. If you notice any leaks or notice odd sensations such as vibration, immediately stop your vehicle.

Pre-Ride Inspection

Always perform a pre-ride inspection of your scooter prior to each ride. Review the pre-ride inspection instruction section contained within this manual for more information.

⚠ WARNING

Not performing a pre-ride inspection, altering your vehicle from the stock configuration, or failure to properly maintain your vehicle can result in serious injury or death. Check your vehicle regularly and have any problems corrected as soon as possible.

Carbon Monoxide Gas

The exhaust gases from this vehicle contain carbon monoxide, a colorless, odorless, and highly toxic gas.

An enclosed area such as a garage can quickly fill up with carbon monoxide gas. Do not run the engine in enclosed areas that are poorly ventilated. Move the vehicle outdoors before operation.



⚠ WARNING

Carbon monoxide gas is toxic. Breathing carbon monoxide can cause unconsciousness and even kill you. Avoid running your engine within enclosed areas and other activities that expose you to carbon monoxide.

Safe Riding

Your scooter can provide many years of riding enjoyment. You must take responsibility for your own safety and the safety of others. There are many steps you can take to protect yourself and others while riding. Here are some very important safety precautions:

Wear a Helmet

Rider safety begins with quality head protection. A head injury is one of the most serious injuries that can occur. Always wear a quality DOT approved helmet that is properly buckled. If the helmet does not have a face shield, wear suitable eye protection.

Wear Riding Apparel

Choose quality gloves, boots, pants, jackets, and other riding apparel specifically designed with protective features. Loose clothing can be unsafe when riding your scooter.

Make Yourself Visible

Wear bright, reflective apparel to make yourself more visible to fellow drivers. Position yourself on the road where other drivers can easily see you. Use your turn signals, hand signs, horn, and other methods to help others locate you and understand your driving actions.

⚠ WARNING

Not wearing safety apparel increases the chance of serious injury or death in a crash. Be sure you and any passengers always wear helmets and protective gear properly.



Know Your Limits

Ride within the boundaries of your own skill always. Do not ride under the influence of drugs or alcohol. Strictly observe all traffic regulations. Always adapt your riding to account for traffic and road conditions.

Road Conditions

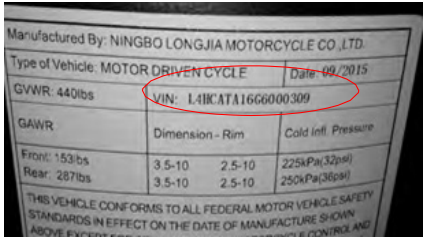
Road conditions can vary greatly with weather, foreign material, elevation etc. Your riding stability and braking power are limited by the grip of the tires on the road surface.

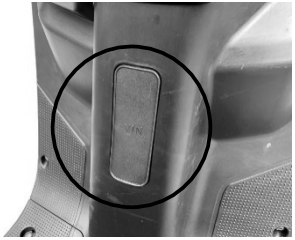
When encountering slippery road surfaces, braking distance will increase significantly, and riding stability will be reduced. Reduce vehicle speed and perform all actions in a gradual and deliberate manner to prevent accidents.

Use extreme caution on painted surfaces or metal objects such as manhole covers or train rails when they are wet.

Identification Numbers

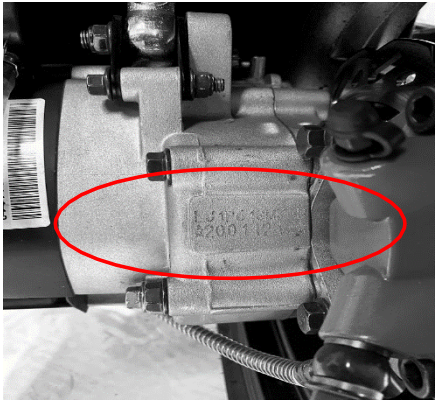
Vehicle Identification Number (VIN) is located on the VIN plate (1) or inside the inner front cover (2).







Record your Vehicle Identification Number: _____



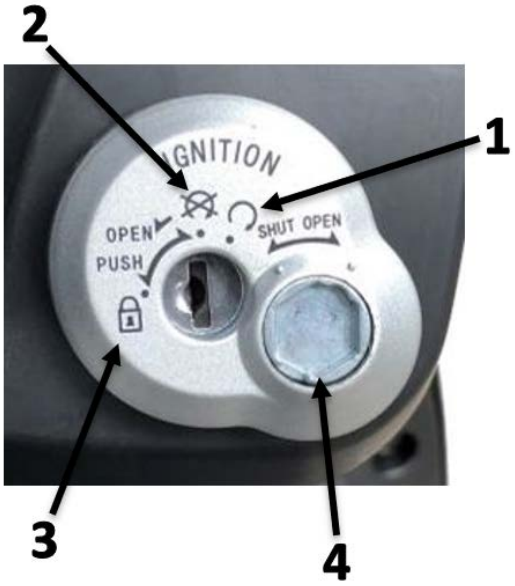
The Engine Serial Number (ESN) is located on the rear left side of the engine (3).

Record your Engine Serial Number: _____

Ignition Switch Operation

Insert the ignition key and select ON (1), OFF (2), or Lock (3). Insert the hexagonal key to control the anti-theft ignition cover (4).

1. Turn key to ON position (1) to operate the vehicle. In this position, the key cannot be removed. The vehicle will have power and the engine can be started.
2. Turn key to OFF position (2) to cease vehicle operation. In this position, all vehicle power will be off, the engine will not run, and the key can be removed from the ignition switch.
3. Turn handlebars fully to the left steering-stop. With the key in the OFF position (2), press key inward toward front of the scooter and turn key left to LOCK position (3) to lock the handlebars as a theft deterrent. The fork is now locked and cannot be turned. Insert and rotate the key clockwise from the LOCK position to the OFF or ON position to unlock the steering.
4. Actuate the anti-theft ignition cover by inserting the hexagonal portion of the key fob into position (4) and turning to the left.



CAUTION

Turn handlebars gently to confirm steering is locked after following locking procedure. Lock your vehicle whenever you leave it unattended.

Dashboard



1. **Right Directional Indicator**
   Illuminates green when turn signal button is pressed to the right and signal is on.
2. **Check Engine Indicator**
   Illuminates orange if there is an engine problem.
3. **High Beam Indicator**
   Illuminates blue when high beam switch is selected.
4. **Left Directional Indicator**
   Illuminates green when turn signal button is pressed to the left and signal is on.
5. **Engine Speed**
   Current engine speed measured in thousands of revolutions per minute (x1000 rpm).
6. **Fuel Level Indicator**
   Current fuel level indicated by F - Full to E - Empty.
7. **Clock**
   Current time in 12-hour format.
8. **Odometer / Trip Odometer**
   Distance traveled during the life of the vehicle or current trip measured in miles or kilometers.
9. **Speedometer**
   Current vehicle speed in miles per hour (mph) or kilometers per hour (km/h).

Odometer / Trip Odometer Selection

To change between odometer and trip odometer:

1. Click the right button (R) to select odometer or trip odometer.



Trip Odometer Reset

While the trip odometer is visible:

1. Click the left button (L) to select trip odometer.
2. Hold the right button (R) down for a few seconds to reset trip odometer.



Clock set

1. Switch the odometer to display total mileage and hold the left button for a few seconds to initiate the clock setting feature.
2. The AM/PM on the dash will begin to flash. Press the right button to select the correct AM/PM setting depending on the time of day.
3. Press the left button once. The hour on the dash will begin to flash. Press the right button to select the correct hour setting.
4. Press the left button once. The minutes on the dash will begin to flash. Press the right button to select the correct minutes setting.
5. Press the left button to exit clock setting feature.

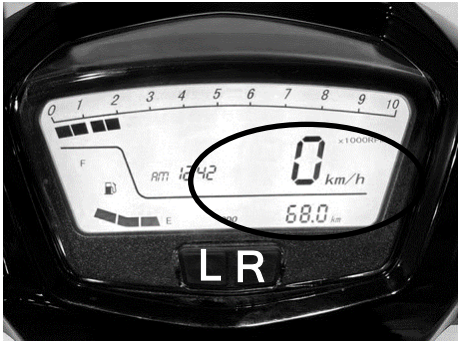


Miles / Kilometers Unit Selection

There are two options for unit selection:

1. Distance measured in miles and speed measured in miles per hour (mph).
2. Distance measured in kilometers (km) and speed measured in kilometers per hour (km/h).

To change from current unit option to the other unit option, have the selection set to display total mileage and hold the right button (R) down for a few seconds.



Handlebar Controls

1. Headlight Switch

Press up for HIGH Beam.
Press down for LOW Beam.

2. Turn Signal Switch

Press switch left to signal a LEFT turn.
Press switch right to signal a RIGHT turn.
Press center button to turn indicator OFF.

3. Horn

Press in to sound the HORN.

4. Hazard Switch

Press up to turn on HAZARD flashing turn signals.
Press down to turn OFF flashing turn signals.

5. Emergency Stop Switch

Press switch right to select RUN position to operate vehicle.
In an emergency, press switch left to STOP to stop the engine.

6. Engine Start Button

Press button in with the ignition key in ON position and at least one brake lever engaged to START the engine.

Left Handlebar Controls



Right Handlebar Controls



CAUTION

Do not press and hold start button for more than 5 seconds at a time as this can damage the start system. Follow starting procedure found on page 26.

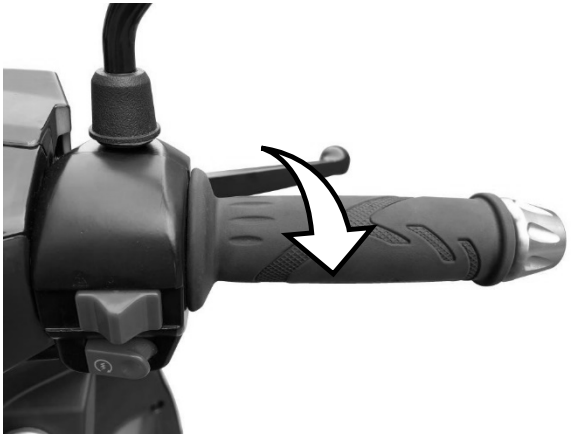
Front & Rear Brake Controls

Extend your fingers over the brake lever.
Pull lever toward the grip to actuate brake.
The brake lever will slow the vehicle with firm pressure.

REAR BRAKE LEVER



FRONT BRAKE LEVER



⚠ WARNING

The brake lever should not touch the handlebar. If the brake lever feels soft or touches the handlebar, have your brake system inspected and adjusted or repaired immediately.

Bag Hook

A bag hook is located on the inner front side of the leg shield. Ensure all bags and other cargo are properly secured to prevent spillage and subsequently a potential hazard for other motorists.



Seat Lock

To access the under-seat storage area, insert key into the ignition and from the “OFF” position, press the key inward toward the front tire while simultaneously turning the key counterclockwise. The seat will release from its latch. Raise the seat forward toward the handlebar to expose the storage area.

Return the seat to rest on the latch and press down firmly on the rear portion of the seat to securely close it.



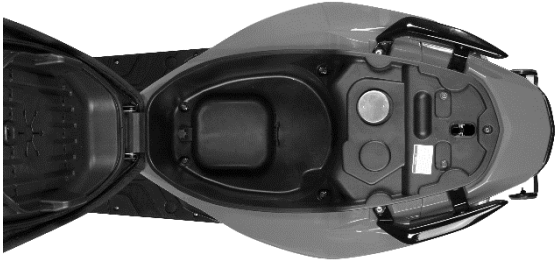
Primary Storage

The primary storage compartment is located under the seat.

The maximum storage load capacity is 20 lbs.

The storage compartment can become very hot when the ambient temperature is high, and the engine has been operating for a long period. Do not place perishable or temperature-sensitive items in the primary storage compartment.

The storage compartment is not waterproof. When it rains or after washing your vehicle, the storage compartment may get wet with moisture. Do not store water-sensitive items in the storage compartment.



Side Stand and Center Stand



The side stand is located near the undercarriage. It is important that the stand is resting on firm ground to prevent the vehicle from toppling over. The scooter is equipped with a side stand switch which will prevent the engine from starting if the side stand is engaged.



The center stand is located behind the side stand. It is best practice to use the center stand when parking the bike. To engage the center stand, the user must put full body weight on the foot anchor and simultaneously pull the bike to the rear.

Fuel Fill

The fuel tank fill location is under the seat.

Insert key into ignition switch. From the OFF position, press key inward toward front wheel while turning key to the left to unlock the seat. Lift the seat to the upright position.

Turn the fuel cap counterclockwise to open.



Fill with unleaded fuel 91 octane or higher.
Take special care not to overfill fuel tank.

USB Charging

Your scooter is equipped with a USB Charging Port located on the front inner cover. Remove protective cover to expose USB charging port.
This port is designed to charge small consumer electronics such as a cellular phone.
After use, cover the charging port with the protective rubber cover to prevent moisture and debris from entering the charging port.



Pre-Ride Inspection

Perform a pre-ride inspection prior to every ride. This is a checklist. Detailed procedures are in the pages that follow.

ITEM	PROCEDURE
FRONT BRAKE	Check the brake function, clearance, brake-fluid level, inspect for fluid leaks, if necessary, add DOT4 or higher brake fluid. Check brake lever free-play and adjust if necessary. Check brake pad wear. If the brake pads are worn down past the wear marks, replace pads immediately.
REAR BRAKE	Check the brake function, clearance, brake-fluid level, inspect for fluid leaks, if necessary, add DOT4 or higher brake fluid. Check brake lever free-play and adjust if necessary. Check brake pad wear. If the brake pads are worn down past the wear marks, replace pads immediately.
THROTTLE	Check to make sure the throttle actuates freely through the range. Lubricate throttle cable if necessary. Check throttle free-play. Adjust throttle cable tension if necessary.
LUBRICANTS	Check the engine oil level before each ride. If the engine oil level is low, refill with **JASO MB 15W-40 engine oil.**
TIRES	Check tire pressure in both the front and rear tire, add air if necessary. Inspect tires.
CABLES	Check operation of all cables. Lubricate cables and adjust tension, as necessary.
CENTER / SIDE STAND	Check center and side stands for operation, lubrication, and secure mounting.
ASSEMBLY	Check all vehicle assembly to ensure fasteners are secure and assemblies function properly.
FUEL SYSTEM	Check fuel level. Fill if necessary. Ensure no fuel leaks are present.
LIGHTING	Check the function of all lights. Clean lenses, as necessary.
SWITCHES	Check the function of all switches.
LOADING	Ensure your vehicle is not overloaded, is loaded in a balanced manner, and cargo is secured.

Perform a pre-ride inspection prior to every ride.

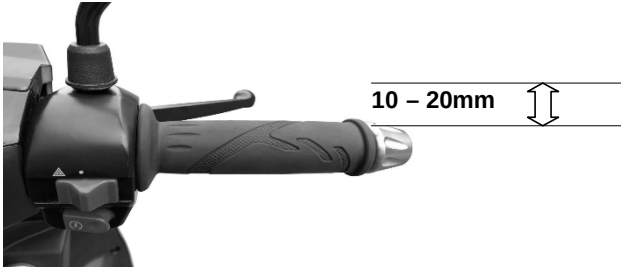
Front Brake

The front brake is a hydraulic disc type. Inspect the brake system prior to each ride.

Properly functioning brake systems are vitally important to your personal safety.

Check for fluid leaks, fluid level, brake pad wear, and rotor condition. Also check lever free-play frequently.

Pull the brake lever lightly until you feel tension, then check the lever free-play.



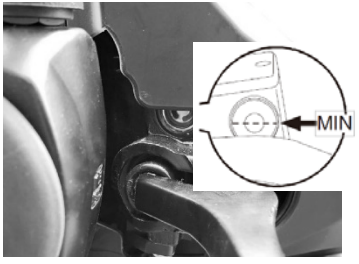
Front Brake lever free-play: 10 - 20mm

If the brake lever has no free-play or is too loose, there is a potential brake system fault. Inspect brake system thoroughly.

Front Brake Fluid

Check all joints along the brake hose for any fluid leaking from the joint or the brake cylinder. Leakage has occurred if you see wet or oxidized fluid sludge.

Check brake fluid level sight glass at base of lever to determine brake fluid level. Fluid should be above the bottom half of the sight glass. Add brake fluid if necessary.



Brake Fluid specification: DOT4

⚠ WARNING

A brake lever that is not firm when engaged implies there is a problem with the brake system. Do not drive your vehicle until the problem has been resolved. Bring the vehicle to your authorized Genuine Scooter Company dealer for repair.

⚠ WARNING

Contact your Genuine Scooter Company dealer immediately to repair any brake fluid leaks. A leak could result in loss of hydraulic pressure to your brake system rendering the front brake useless.

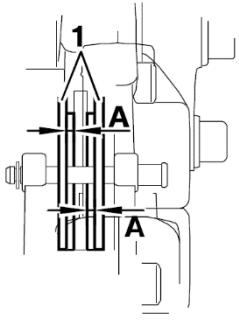
Perform a pre-ride inspection prior to every ride.

Front Brake Disc and Pads

Inspect the brake disc for wear, glazing and/or warping. Inspect the brake pads to ensure the pad thickness is not beyond the wear limit:

Wear Limit: 2mm

If the brake pad wears entirely before replacement, damage to the disc and loss of braking ability can occur.





Rear Brake

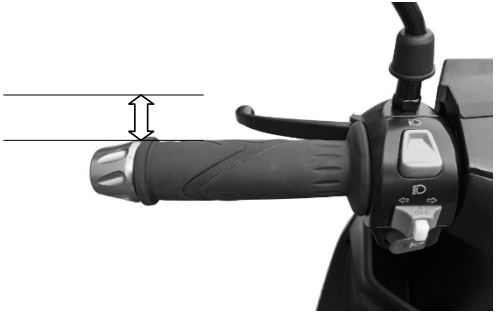
The rear brake is a hydraulic disc type. Inspect the brake system prior to each ride.

Properly functioning brake systems are vitally important to your personal safety.

Check for fluid leaks, fluid level, brake pad wear, and rotor condition. Also check lever free-play frequently.

Pull the brake lever lightly until you feel tension, then check the lever free-play.

10 – 20mm



Rear Brake Lever Free-Play: 10 - 20mm

If the brake lever has no free-play or is too loose, there is a potential brake system fault. Inspect brake system.

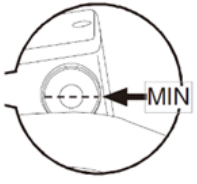
Perform a pre-ride inspection prior to every ride.

Rear Brake Fluid

Check all joints along the brake hose for any fluid leaking from the joint or the brake cylinder. Leakage has occurred if you see wet or oxidized fluid sludge.

Check brake fluid level sight glass at base of lever to determine brake fluid level.

Fluid should be above the bottom half of the sight glass.



Add brake fluid if necessary.

Brake Fluid specification: DOT4

⚠ WARNING

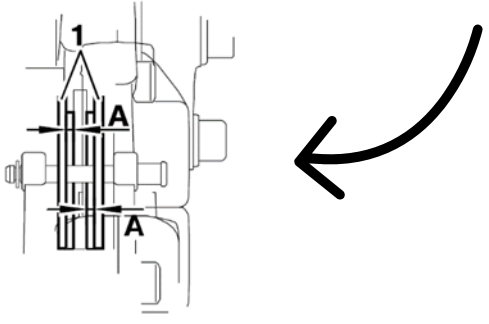
Contact your Genuine Scooter Company dealer immediately to repair any brake fluid leaks. A leak could result in loss of hydraulic pressure to your brake system rendering the front brake useless.

Rear Brake Disc and Pads

Inspect the brake disc for wear, glazing and/or warping. Inspect the brake pads to ensure the pad thickness is not beyond the wear limit.

Brake Pad Wear Limit: 2mm

If the brake pad wears entirely before replacement, damage to the disc and loss of braking ability can occur.



Perform a pre-ride inspection prior to every ride.

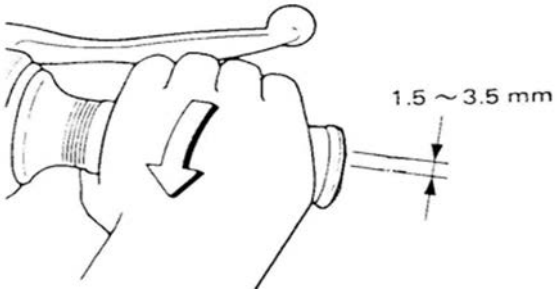
Throttle

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

Move the handlebar from 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.

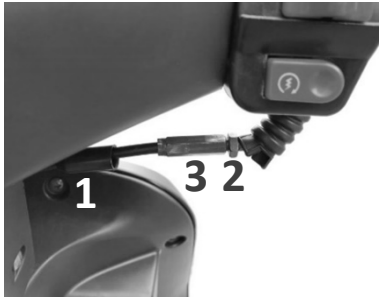
Throttle free-play: 1.5 - 3.5 mm



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

Throttle Adjustment

Slide the protective rubber cover (1) to expose the throttle adjustment screw.



Loosen the lock nut (2) on the throttle cable.

Turn the adjustment screw (3) until the throttle free-play is within the proper range of movement.

Measure throttle free-play again by opening the grip slightly until resistance can be felt.

Throttle free-play: 1.5 - 3.5 mm

Once throttle free-play has been adjusted within the proper range, tighten lock nut (2).

Return the protective cover (1) to cover the throttle adjustment screw.

⚠ WARNING

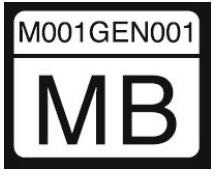
An improperly adjusted throttle, non-lubricated or binding throttle cable is an extremely dangerous condition that can result in loss of control of your vehicle. Maintain and inspect frequently.

Perform a pre-ride inspection prior to every ride.

Engine Oil

Genuine Motor Oil is the oil brand recommended by Genuine Scooters. Your scooter operates under intense conditions, including higher engine speed, hotter temperatures, and higher compression ratios than other vehicle types. These extreme conditions subject the oil to significant operational stress and require a lubricant specifically designed for scooters.

Only use JASO MB 15W-40 engine oil.



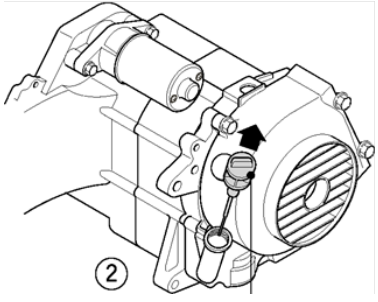
JASO MB oils are very low friction oils formulated for use in engines that do not have wet clutch systems. Other oil types may severely damage your engine and void any warranty. All JASO rated oils will display the JASO oil classification on the bottle within an outlined border like the example above.

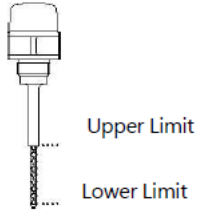
Many oils claim to “meet or exceed” JASO ratings but are not verified to meet these standards.
If an oil does not have a 10-character oil code and the JASO MB rating prominently displayed on the label, then the oil has not been verified by the Japan Lubricating Oil Society and should not be used in your scooter.

Engine Oil Check

Start engine and run for 1 minute prior to checking oil level. The engine oil fill access is located near the lower right side of the vehicle. Remove the cap and check the oil level on the dipstick.

Add JASO MB 15W-40 engine oil if the oil level is low. Replace cap.





⚠ WARNING

Failure to use JASO MB 15W-40 oil and/or failure to maintain proper oil level in your engine may result in premature wear, severe engine damage or catastrophic engine failure.

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 Scooter Company dealer for tire replacement if necessary.

Tire Pressure

Perform tire pressure checks while the tires are cold:
Remove the valve stem caps.
Check the tire pressure.

Standard Tire Pressure	
Front:	**32 psi**
Rear:	**32 psi**

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


TIRE PRESSURE TOO HIGH


TIRE PRESSURE TOO LOW

⚠ WARNING

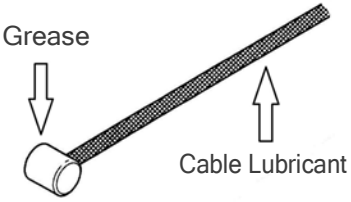
Failure to maintain proper air pressure in your tires may result in tire failure and/or loss of control of your vehicle. Do not ride if your tire pressure is not at or near the recommended value.

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.

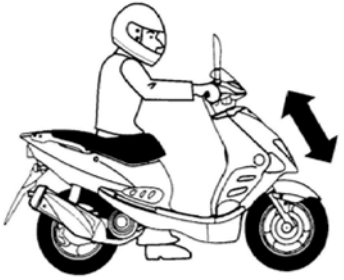
Check spring tension to ensure stands will remain in stowed position when riding.

Assembly

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

Visually inspect the engine, fork assembly, rear shock absorber, 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 Scooter Company dealer for inspection and resolution.



FUNCTION CHECK

Fuel System

Check your fuel level prior to each ride.

Fuel Tank capacity: 5.9 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, headlight, taillight, brake light, speedometer backlighting, and all indicator lights to assure they are in proper working order.

Make sure all 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.

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 Break-In" section on the next page.

It is recommended to warm up the engine for a few minutes prior to riding. This will prevent components from experiencing premature wear.

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 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.

⚠ WARNING

Carbon monoxide gas is toxic. Breathing carbon monoxide can cause unconsciousness and even kill you. Avoid running your engine within enclosed areas and other activities that expose you to carbon

⚠ WARNING

The rear wheel of the scooter may start to spin once the scooter starts. Make sure you keep your body and any loose clothing away from the rear wheel to avoid injury.

Initial Engine Break-In

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

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 a long period, 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 that 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 JASO MB 15W-40 engine oil in your vehicle.

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 rear-view 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. Review safety recommendations on pages 4-6.

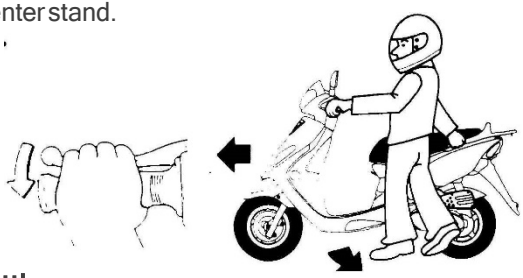
Use the throttle for controlling the general speed of your vehicle.

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 consider 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 the center stand.

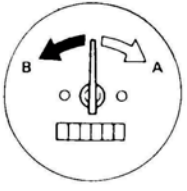


Throttle

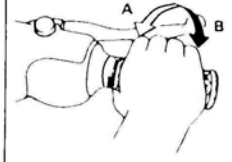
Gradually turn the throttle to accelerate.

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



Braking

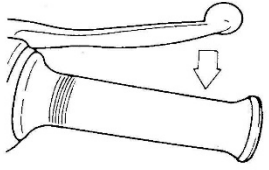
You should always be prepared to use your brakes. Unexpected behavior of fellow motorists, road debris, animals and other obstacles can arise without notice. Becoming familiar with and actively covering your brakes while riding can drastically reduce braking distances and improve safety.

Applying the brakes

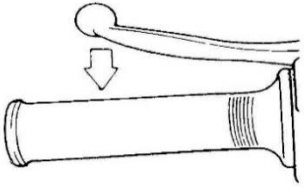
1. Release the throttle
2. Gradually pull the brake lever(s) toward the handlebar to apply the brake.

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.

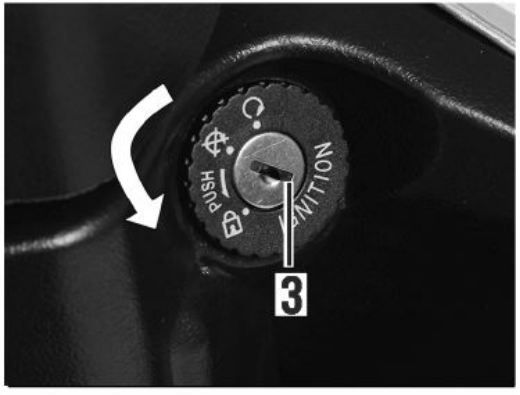


⚠ WARNING

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.

Engine Stop

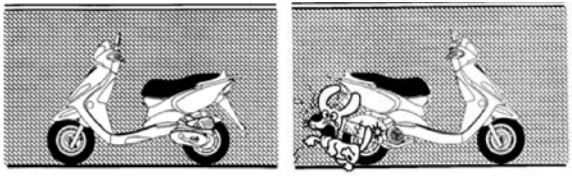
To stop the engine, turn ignition key to OFF (2).
Remove the key.



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.

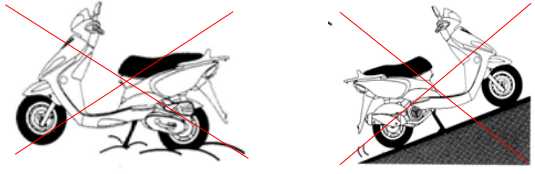


Correct Incorrect

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.

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



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 increase 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 Scooter Company dealer.

Items marked with a “#” symbol are recommended to be completed by an authorized Genuine Scooter 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.

CAUTION

CAUTION: IF YOU ARE UNFAMILIAR WITH PERFORMING THESE MAINTENANCE PROCEDURES, VISIT A GENUINE DEALER FOR ASSISTANCE.

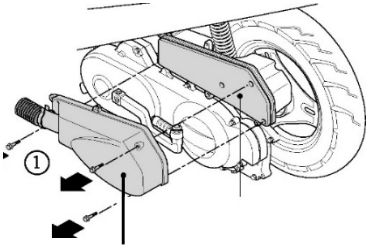
I = Inspection recommended, not required
C = Clean or Replace if necessary
L = Lubrication
E = Mandatory Examination, Adjust/ Replace as necessary
R = Mandatory Replacement

Component Assembly	Before each trip	1st service after 800 km (497 miles)	Every 4,000 km (2,485 miles) or 6 months	Every 8,000 km (4,971 miles) or 12 months	Every 12,000 km (7,456 miles) or 18 months
Air cleaner foam		I	E		R
Oil filter (screen) #		C	C		
Engine oil use JASO MB 15W-40	Check oil level	R	R		
Fuel filter	Check for Leaks	I	E		R
Spark plug #		I	E		R
Ignition timing #		I	I	E	
Valve clearance #		I	I	E	
Compression check #			I	E	
Idle speed #		I	I	E	
Throttle cable adjustment	Check Free-Play	E	E		
Transmission oil	Check fluid level	R	E	R	
Transmission check for leakage	Check for leaks	I	E		
Crankcase check for leakage	Check for leaks	I	I		
Crankcase ventilation Hoses	Check for leaks	I	I		
Driving belt, Roller-weights #		E	E	R	
Clutch discs #		E	E		R

I = Inspection recommended, not required
C = Clean or Replace if necessary
L = Lubrication
E = Mandatory Examination, Adjust/ Replace as necessary
R = Mandatory Replacement

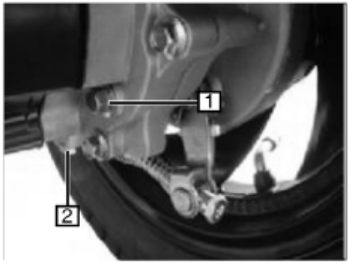
Component Assembly	Before each trip	1st service after 800 km (497 miles)	Every 4,000 km (2,485 miles) or 6 months	Every 8,000 km (4,971 miles) or 12 months	Every 12,000 km (7,456 miles) or 18 months
Bolts and nuts (engine)	Check Fasteners	I	E		
Lighting system	Check Function	E	E		
Exhaust system	Check for Leaks	I	I		
Fuel tank, fuel hoses	Check for Leaks	I	I		
Battery	Check for Leaks	I	I		
Steering and bearings	Check for Play	E	E		
Front and rear suspension	Check Play / Leaks	E	E		
Shock absorption	Check Play / Leaks	E	E		
Tire pressure	Check Pressure	E	E		
Brake function, brake pads	Check Wear	E	E		
Brake fluid	Check Level / Leaks	E	E		R / every 2 years
Main and side stand	Check Fasteners	E	E / L		
Bolts and nuts (chassis)	Check Fasteners	I	I		

Air Cleaner and Air Filter



1. Remove screws from air cleaner cover. (1)
2. Clean housing of dirt and debris with a clean cloth.
3. Inspect gasket for integrity.
4. Inspect air filter and replace if dirty or maintenance interval has been reached.
5. Reinstall air filter and cleaner cover, secure screws.

Gear Oil



Change the gear oil per the maintenance schedule and check level periodically.

1. Remove the fill screw (1) and drain screw (2). Drain all oil from gearbox.
2. Reinsert drain screw (2) with new washer and tighten to torque specification.
3. Fill with SAE 80W-90 GL-5. Normal gear oil change volume is 100cc.
4. Reinsert fill screw (1) and tighten to torque specification.
5. Inspect for leaks on the shaft 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 any leak immediately to prevent damage to the gearbox.

Transmission

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

CAUTION: IF YOU ARE UNFAMILIAR WITH PERFORMING THESE MAINTENANCE PROCEDURES, VISIT A GENUINE DEALER FOR ASSISTANCE.

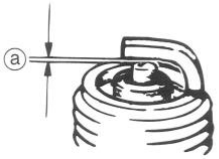
Spark Plug

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 Scooter Company dealer for assistance.

Standard spark plug: NGK CR7HSA

- 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.

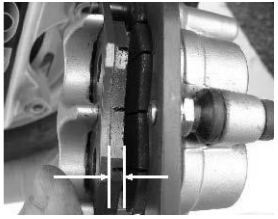
Torque: 11.7 N-m (8 ft-lb)

Brake Check

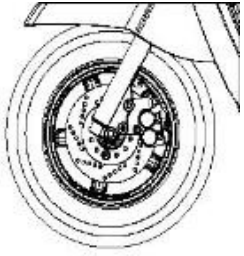
Actuate each brake for inspection. Observe the grooves in the pads. If the groove is gone or nearly gone, your brake pads need to be replaced.

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.

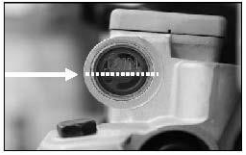
CAUTION

CAUTION: IF YOU ARE UNFAMILIAR WITH PERFORMING THESE MAINTENANCE PROCEDURES, VISIT A GENUINE DEALER FOR ASSISTANCE.

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. Standard brake fluid: FMVSS DOT4.

1. When checking the fluid level, please turn the handlebar 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.

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 Scooter Company dealer inspect immediately.

CAUTION

Do not mix brake fluid types. This may cause brake failure.

Suspension

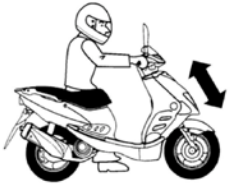
Suspension is very important in vehicle stability. Malfunctioning suspension can cause your vehicle to behave in an unpredictable manner. Check regularly.

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.



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

CAUTION

CAUTION: IF YOU ARE UNFAMILIAR WITH PERFORMING THESE MAINTENANCE PROCEDURES, VISIT A GENUINE DEALER FOR ASSISTANCE.

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 Scooter Company 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 Scooter Company 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 daily. The battery will deplete over time if the vehicle is not run on a regular basis. Your Genuine Scooter Company 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.
Recharge or replace the battery before attempting to start the 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.

CAUTION

CAUTION: IF YOU ARE UNFAMILIAR WITH PERFORMING THESE MAINTENANCE PROCEDURES, VISIT A GENUINE DEALER FOR ASSISTANCE.

Storage

It is important to take the proper steps for storage of your scooter to reduce the effects of deterioration during extended non-use periods. It is highly recommended to perform all periodic maintenance and perform any repairs prior to storage so the scooter is in great condition when removed from storage.

1. Replace the oil and oil filter (if applicable)

2. Fill the gas tank to maximum capacity and add the recommended amount of fuel stabilizer. A full gas tank does not leave as much room for condensation to build up, and the stabilizer will handle any that does. Run your scooter for a few minutes to ensure that the treated gasoline makes its way into your carburetor/injector nozzles. Lastly, drain the carburetor if the vehicle is equipped.

3. Inflate the tires to the recommended pressure and turn them over every couple of weeks. This helps prevent flat spots from forming.

4. Prevent rusting in the cylinder by removing the spark plug and pouring a tablespoon of clean engine oil into the cylinder. Cover the spark plug hole with a piece of cloth and crank the engine several times to distribute the oil. Reinstall the spark plug back into the cylinder. Use a clean cloth and avoid any material from entering the combustion chamber.

5. Remove the battery and store it in an area that is out of direct sunlight and above freezing temperatures. Use a good quality trickle charger to charge the battery during storage.

6. Use a scooter cover and store in an area that is free of excessive moisture, has minimum daily temperature variations, and is not in direct sunlight. The sun's UV rays can damage the body work.

⚠ WARNING

Both fuel and fuel vapors are highly flammable. Do not smoke or bring an open flame near the fuel tank. Explosions can occur. You can be burned or seriously injured when handling fuel.

Maintenance Record

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

Technical Data

Engine	
Type	3L7
Displacement	168.9cc
Bore	61 mm
Stroke	57.8 mm
Compression Ratio	9.8:1
Cooling	Forced Air
Lubrication Method	Separated Pump
Fuel Delivery	Electronic Fuel Injection (EFI)
Idle Speed	1700 ± 200 rpm
Spark Plug	NGK CR7HSA
Electrode Gap	0.6-0.7 mm
Start System	Electric
Transmission	
Type	Continuously Variable (CVT)
Clutch	Dry, Centrifugal
Fluids	
Engine Oil Type	JASO MB 15W-40 Motor oil
Engine Oil Capacity	~ 1.0 Liter
Gear Oil Type	SAE 80W-90 GL-5
Gear Oil Capacity	150cc (100cc replacement volume)
Fuel Type	Unleaded fuel, 91 Octane or higher
Fuel Capacity	5.9 liters

Chassis	
Length	1835 mm / 72 in
Width	680 mm / 27 in
Height	1095 mm / 43 in
Wheelbase	1310 mm / 52 in
Curb Weight	116 kg / 256 lb
Max Loading	160 kg / 353 lb
GVWR	276 kg / 609 lb
GAWR - Front	88 kg / 194 lb
GAWR - Rear	188 kg / 415 lb
Front Tire	120/70-12
Rear Tire	130/70-12
Electrical	
Ignition System	ECU
Generator	Flywheel Magnet Stator
Battery Type	12V 6Ah MF
Main Fuse	15A Tube

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 call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to *https://www.nhtsa.gov; or write to: Administrator, NHTSA, 1200 New Jersey Avenue SE, Washington, DC 20590. You can also obtain other information about motor vehicle safety from https://www.nhtsa.gov.*

WARRANTY INFORMATION

Your vehicle is covered by a Genuine Manufacturer's Limited Warranty, an EPA Emission Control System Warranty, and, in California, a California Emission Control System Warranty. Detailed warranty information can be found in your warranty booklet supplied separately from this manual.

This owner's manual should always remain in your vehicle 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 Scooter Company 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. The current manual can always be viewed at: http://www.genuinescooters.com/ownersmanual.html



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