

CAVALIER 150 OWNER'S MANUAL

MOTORCYCLE



Congratulations on your purchase of the My company Scooter.

Your Scooter is warranted to be free of manufacturing defects in the material of workmanship for a period of 90 days from the date of purchase. During the warranty period My company will at its option, repair, provide replacement parts or replace your Scooter at no charge. This warranty does not cover normal wear items or damage caused by neglect or misuse of the product.

Engine Warranty – 90 days
Frame Warranty – 90 days

Warranty is void if:

Frame is bent or broken due to abuse
Wheels are bent or broken
Fender bent or broken due to abuse
Any sign of impact, accident, jumping, spin-outs or roll over.

My company is not liable for any damage claim or liability claim person or otherwise resulting from the operation of this product in any way.

I

⚠ WARNING

This manual should be considered as a permanent part of the vehicle and should remain with the vehicle when resold or otherwise transferred to a new user or operator. The manual contains important safety information and instructions which should be read carefully before operating the vehicle. All operators should obtain, review, and follow provincial and municipal government acts and regulations pertaining to owning and operating an off-road vehicle. Children under the age of 16 should never operate this vehicle.

⚠ WARNING

It is the operators responsibility to know and obey all applicable local, state and federal laws at all times while operating this vehicle including but not limited to traffic safety, vehicle registration, emissions, and noise

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
CALIFORNIA PROPOSITION 65

II

⚠ WARNING

Indicates a potential hazard that could result in death or injury.

CAUTION

Indicates a potential hazard that could result in vehicle damage.

NOTE: Indicating special information which is to make maintenance easier or instructions clearer.

WARNING and CAUTION are arranged like this:

⚠ WARNING-or-CAUTION

The first part will identify a POTENTIAL HAZARD.

The second part will describe WHAT COULD HAPPEN if you ignore the WARNING or CAUTION.

The third part will describe HOW TO AVOID THE HAZARD.

⚠ WARNING! FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SEVERE INJURY OR DEATH.
CAUTION: FAILURE TO FOLLOW THESE INSTRUCTIONS CAN ALSO RESULT IN DAMAGE TO THE VEHICLE AND/OR OTHER PROPERTY.

⚠ WARNING! ALWAYS PERFORM THE ENTIRE PRE-RIDE CHECKLIST BEFORE USING THE VEHICLE AS THIS CAN HELP YOU SPOT PROBLEMS THAT COULD INTERFERE WITH SAFE VEHICLE OPERATION. FAILURE TO FOLLOW THIS ENTIRE CHECKLIST BEFORE EVERY RIDE CAN CAUSE DEATH, SERIOUS INJURY, AND/OR PROPERTY DAMAGE TO YOURSELF AND/OR OTHERS

III

! WARNING

**Read and understand Owners manual before operating this scooter.
Always wear a helmet, eye protection and protective clothing.**

- ! WARNING! ALWAYS RETRACT THE SIDE STAND PRIOR TO STARTING THE VEHICLE**
- ! WARNING! FOLLOW ALL OF THE WARNINGS IN THIS OPERATOR'S MANUAL AT ALL TIMES WHILE OPERATING THE SCOOTER. IT IS YOUR RESPONSIBILITY TO KNOW AND OBEY ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.**
- ! WARNING! NEVER OVERLOAD THE VEHICLE. THE CARRYING CAPACITY IS 331 POUNDS.**
- ! WARNING! ALWAYS WEAR A DOT-APPROVED HELMET, EYE PROTECTION, AND SHOES WHEN RIDING YOUR VEHICLE.**
- ! WARNING! NEVER DRIVE THE SCOOTER WITH THE SIDE STAND EXTENDED.**

IV

Stopping the vehicle

- ! WARNING! WET, OIL, OR SANDY ROADS REDUCE BRAKING EFFECTIVENESS. HARD BRAKING ON THESE SURFACES COULD LEAD TO LOSS OF CONTROL AND A SERIOUS ACCIDENT. ALWAYS REDUCE SPEED AS GRADUALLY AS POSSIBLE.**
- ! WARNING! USE EXTREME CAUTION WHEN ENGAGING THE FRONT BRAKE TO AVOID LOCKING THE FRONT WHEEL. LOCKING THE FRONT WHEEL CAN CAUSE A SERIOUS ACCIDENT.**
- ! WARNING! GASOLINE IS FLAMMABLE AND EXPLOSIVE. USE EXTREME CAUTION WHEN FUELING YOUR SCOOTER ONLY FILL THE TANK IN WELL-VENTILATED AREAS. SHUT OFF THE ENGINE AND PLACE THE SCOOTER ON ITS CENTER STAND TO ENSURE PROPER FILLING WHILE ELIMINATING THE RISK OF STATIC IGNITION CAUSED BY IMPROPER GROUNDING. NEVER SMOKE NEAR GASOLINE NEVER OVERFILL THE GAS TANK. ALWAYS MAKE SURE THE FUEL CAP IS SECURELY FASTENED AFTER EACH FUELING.**
- ! WARNING! DO NOT SPLASH OR SPILL GASOLINE WHILE FUELING. IF A SPILL OCCURS, IMMEDIATELY WIPE OFF ALL SURFACES PRIOR TO STARTING THE ENGINE. AVOID SKIN CONTACT WITH GASOLINE AND DO NOT BREATHE GASOLINE FUMES. KEEP GASOLINE AWAY FROM FLAMES OR ELECTRIC SPARKS.**

V

! WARNING

The following procedure is very dangerous and should be performed with the utmost care and attention. Wear protective eyewear, rubber gloves, and have water available should electrolyte come in contact with skin or eyes. KEEP ALL CHILDREN AWAY FROM THE AREA WHILE THIS PROCEDURE IS BEING PERFORMED.

POISON – CAUSES SEVERE BURNS

Contains sulfuric acid.
Avoid contact with skin, eyes, or clothing
To prevent accidents, rinse empty container with water.

ANTIDOTE:

External – flush with water
Internal – Call physician immediately. Drink large quantities of water or milk.
Follow with milk of magnesia, beaten eggs or vegetable.
Eyes – Flush with water for 15 minutes and get prompt medical attention.
KEEP OUT OF REACH OF CHILDREN.

! WARNING

Improper adjustment of the idle speed could be hazardous.

An idle speed that is too high could cause the scooter to launch forward when you start the engine. This may cause an accident. Excessive engine wear may also result if idle speed is adjusted improperly or when the engine is not fully warmed up. Adjust the idle to the correct speed. Make sure the engine is fully warm before adjusting the engine idle speed.

VI

! WARNING

NEVER REMOVE CAPS ONCE BATTERY IS ASSEMBLED. NEVER ADD WATER OR ELECTROLYTE.

! WARNING

Operating this scooter with improper tires, or even improper tire air pressure could be hazardous. If you use improper tires or improper tire air pressure, you may lose control of the scooter. Always use the size and type tires specified. Always maintain proper tire air pressure as described in this section.

! WARNING

Using worn tires could be hazardous. The traction of the vehicle will be decreased. This increases your risk of having an accident. Replace the front and rear tires when the depth on the tread is .075 in. or less.

! WARNING

Draining fuel from the carburetor could be hazardous. Fuel could catch fire if you do not handle it properly. When draining fuel from the carburetor, be sure to shut the engine off. Do not smoke, and never drain or refuel in an area where there are open flames or sparks. Do not spill the fuel or you may create a fire hazard. Dispose of the drained fuel properly.

VII

CAUTION

Failing to secure the Scooter properly could be hazardous.

Failing to secure the vehicle properly may result in an accident or damage to the vehicle.

When transporting the Scooter, tie down the vehicle securely with straps, rope, or some other suitable means. Use extra tie downs when you transport the vehicle in the standing position.

▲ WARNING

Draining the fuel could be hazardous.

Fuel could catch fire if you do not handle it properly.

When draining the fuel from the fuel tank, be sure to shut the engine off. Do not smoke, and never drain fuel in an area where there are open flames or sparks. Keep pets and children away from the fuel, and dispose of the drained fuel properly.

▲ WARNING

Performing the spark test improperly could be hazardous.

You could get a high voltage electrical shock if you are not familiar with this procedure.

Do not perform this check if you are not familiar with the procedure. Do not point the spark plug near the spark plug hole during this test. Do not do this test if you have a heart condition or wear a pacemaker. Do not perform this test in any near any open fuel containers for near fuel which has spilled on the ground, on the engine, or any part of the Scooter.

VIII

IMPORTANT INFORMATION

1. Operator and Passenger

This scooter is designed to carry one operator and one passenger. Never exceed the manufacturer's recommended maximum weight capacity as shown on the loading label.

2. On-road Use Only

This scooter is designed to be used only on paved roads.

3. Read This Owner's Manual Carefully

Pay special attention to safety messages that appear throughout this manual. This manual should be considered a permanent part of your scooter, and should remain with the scooter when resold to subsequent owners.

WELCOME

Our scooter presents you with a challenge; a challenge to master a machine, a challenge to experience adventures, a challenge to be free. Unlike an automobile, there is no metal cage around you. There is only you and the road, linked together by a vehicle that responds to your every command like no other. Your reward...FREEDOM.

To answer this challenge, and to enjoy the adventures ahead, you should first become thoroughly familiar with this owner's manual.

As you read this manual, you will find information that is preceded by a NOTICE. This information is intended to help you avoid damages to your scooter, your body, property of others, and the environment.

Note: If there are any discrepancies between the real scooter and its photographs, the real scooter will take precedent.

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SAFETY INFORMATION

Important Safety Information

Understanding the challenges that you will face when operating a scooter will greatly improve your safety on the roads. There are many things that you can do to protect yourself when riding. You will find many helpful recommendations throughout this manual. Following are a few that we consider most important.

Always Wear Protective Gears

It is a proven fact: helmets significantly reduce the number and severity of head injuries. Always wear helmets, eye protection, sturdy boots, gloves, and other protective gears when riding.

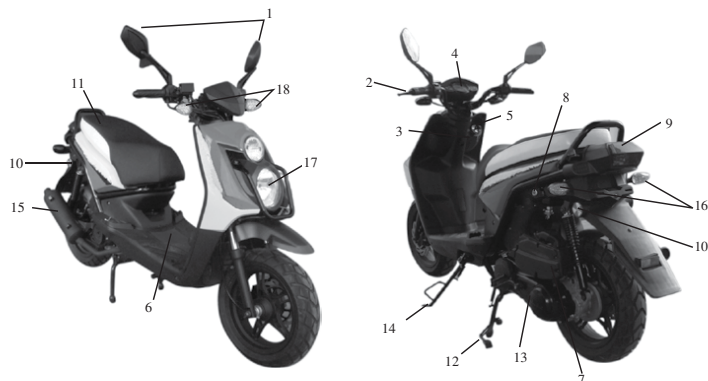
Make Yourself Visible

Some drivers do not see scooters because they do not look for them. To make yourself more visible:

- Wear bright reflective clothing while riding.
- Position yourself in the traffic lane so other drivers can see you.
- Signal before turning or changing lanes.
- Use your horn to alert others on the road.
- Always use headlights while riding, even during daytime.

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DESCRIPTION



- | | | |
|------------------------|------------------------|------------------------------|
| 1. R and L rear mirror | 8. Seat lock | 15. Muffler |
| 2. R and L brake | 9. Rear light assembly | 16. R and L rear turn signal |
| 3. Helmet hook | 10. R and L reflector | 17. Headlights |
| 4. Speedometer | 11. Oil tank | 18. L and R turn light |
| 5. Main switch | 12. Center stand | |
| 6. Battery | 13. Kick starter | |
| 7. Air cleaner | 14. Side stand | |

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SAFETY INFORMATION

Ride Within Your Limit

Pushing the limits is a common cause of scooter accidents. Never ride beyond your personal abilities or faster than conditions warrant. Remember that alcohol, drugs, fatigue and inattention can significantly reduce your ability to make good judgments and ride safely.

Keep Your Scooter In Safe Condition

For safe riding, it is important to inspect your scooter before every ride, and perform recommended maintenance in a timely manner.

Loading Limit Guidelines

Your scooter has been designed to carry you and one passenger. When you carry a passenger, you may notice some changes in acceleration and braking. However, as long as you keep your scooter well maintained, with good brakes, you can safely carry loads within manufacturer's recommended weight limit. Exceeding the weight limit or carrying an unbalanced load can seriously affect your scooter's handling, braking, and stability. Improper modifications and poor maintenance can also reduce your safety.

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DESCRIPTION

Speedometer

Riding speed is indicated by mph and km/h.

Odometer

The total riding distance is indicated in miles.

Indicating lamp of turning light $\leftarrow \rightarrow$

It flashes when turning light is in use.

Fuel Gauge

Fuel gauge indicates the remaining fuel in the fuel tank (the gauge does not work when main switch is in the "OFF" position). The gauge needle moves from "F" (full) to "E" (empty) as the fuel decreases in the fuel tank. Fill the tank with 90 octane or higher gasoline when the needle is approaching the "E" position. There is no reserve tank.

Indicating lamp of high beam $\equiv \text{D}$

It indicates high beam is in use.

NOTE:

***Apply low beam to avoid obstructing the view of oncoming drivers and drivers ahead.**

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DESCRIPTION

1. Speedometer
2. Odometer
3. Turn signal indicator
4. High beam indicator
5. Fuel gauge



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INSTRUMENT CONTROL

Handlebar Switches



1. Dimmer Switch

When lights switch is in the "ON" position:

- : Head light high beam is on.
- : Head light low beam is on.

2. Turning Light Switch

To use the turning light while making a turn or change traffic lane, push the switch to to signal a right turn. Push the switch to to signal a left turn. The switch returns to center.

position when released. The turning light does not go off automatically. To cancel the turning signal, push in the switch after it has returned to center position.

3. Horn Button

The horn sounds by pressing the horn button.

4. Starter Switch

Apply this switch when using electric start.

5. Engine is on
 Engine is off

6. Lights Switch

- : All lights are off.
- : Location light, tail light, license light and meter light are on.
- : Head light, tail light, license light, meter light are ON.

NOTE:

*Release the starter switch immediately after the engine has started. Do not apply starter switch again when the engine is running.

*Never exceed 4 seconds when using starter switch each time.

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INSTRUMENT CONTROL

Main Switch

"ON" POSITION:

Electrical circuits are switched on. The engine can now be started. The key can not be removed in this position.

"OFF" POSITION:

All electrical circuits are switched off. The engine stops. The key can be removed in this position.

"LOCK" POSITION:

The steering is locked when in this position. The key can be removed.



NOTE:

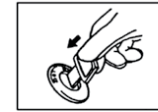
*Do not leave the main switch in "ON" position for an extended period of time when the engine is stopped. The battery may drain itself.

*Lock the steering and remove the key after parking to avoid theft.

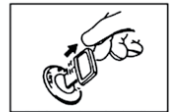
Steering Lock

Turn the handlebar fully to the left and lock the steering as show below to prevent theft:

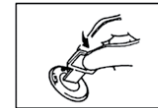
Push the key in when it's in OFF position



Release the key



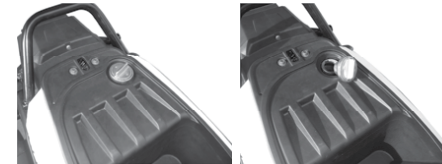
Turn to LOCK position



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INSTRUMENT CONTROL

Fuel Tank Cap



Open:

Fuel tank is located underneath the seat cushion. To open, turn the cap counterclockwise until it unlocks.

Close:

Lock the fuel tank by pressing down on the cap and turning it clockwise.

Description:

1. When closing the fuel tank cap, the "▲" mark on the cap should be in alignment with the "▼" mark on the filling hole.

2. The "•" mark on the fuel tank cap indicates that when the key turns clock wise about 1/4 round, it will be returned to this position by spring force.
3. The key can only be removed in the "lock" position.

NOTE:

*The fuel tank cap is not closed if it has not been locked by the key.

*The key can not be removed if the fuel tank cap is not locked properly.

Seat Lock

To open the seat, insert the key into the lock and turn as shown below. Return the seat to its original position and press down to lock up. Pull up on the seat slightly to ensure it is locked.

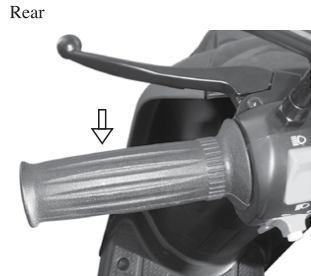


-8-

INSTRUMENT CONTROL

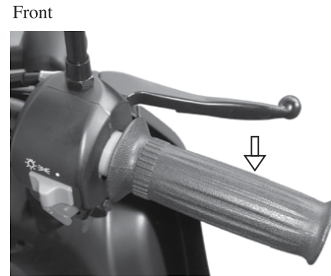
Rear Brake Lever

The rear brake lever is located in left handlebar. Pull the lever to apply rear brake.



Front Brake Lever

The front brake lever is located on the right handlebar. Pull the lever to apply front brake.



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PRE-OPERATION CHECKS

Pre-operation Checks

Pre-operation checks should be made each time the scooter is used. Such an inspection can be accomplished in a very short time. The added safety it insures is more than worth the time involved.

Before using this scooter, check the following points:

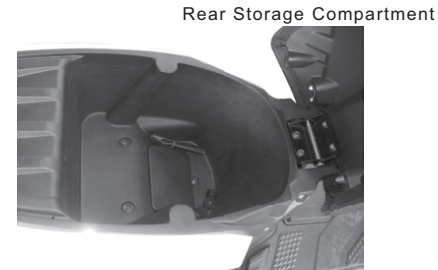
NO	ITEM	ROUTINE	PAGE
1	Front Brake	Check operation, freeplay, fluid level and fluid leakage. top up with DOT3 brake fluid if necessary.	13
2	Rear Brake	Check operation, freeplay, fluid level and fluid leakage. top up with DOT3 brake fluid if necessary.	13
3	Throttle	Check for smooth operation. Adjust if necessary	13
4	Engine Oil	Check engine oil level, add oil if necessary.	14
5	Tires/Wheels	Check tire pressure, wear and damage.	14
6	Fittings/Fasteners	Check all chassis fittings and fasteners. Tighten/adjust if necessary.	16
7	Lights/Signals/Switches	Check operation.	16
8	Fuel	Check fuel oil level, add oil if necessary.	16

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INSTRUMENT CONTROL

Rear Storage Compartment

The compartment is located under the seat. Open the seat to store a helmet in the compartment.



Side stand kill switch

Remove the scooter from side stand before starting otherwise scooter will not turn on. While on side stand kill switch will activate and scooter engine will turn off.

The setting-up is only for scooters with Emark



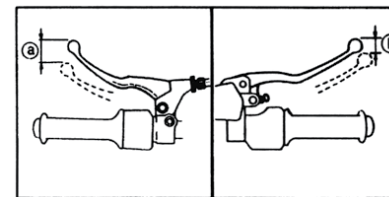
NOTE:

*The maximum loading capacity of rear storage compartment is 5 kg.

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PRE-OPERATION CHECKS

Brakes



a. Free play 10~20 mm b. Free play 2~5 mm

Brake Levers

Check for correct free play in the brake levers and correct them if necessary. Make sure the brakes are working properly by checking at low speed shortly after starting out.

NOTE:

A soft, spongy feel in the brake lever indicates a failure in the brake system. Do not operate the scooter until the failure in the brake system has been corrected. Ask a dealer for immediate repairs.

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PRE-OPERATION CHECKS



1. Minimum level

Brake Fluid

Check the brake fluid level. Add fluid if necessary.

Recommend brake fluid: DOT3

Brake Fluid Leakage

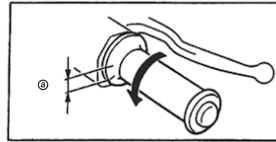
Apply the brake a few times. Check to see if any brake fluid leaks out from the pipe joints or the master cylinder

NOTE:

*Brake fluid may deteriorate painted surfaces or plastic parts. If spilled, clean it up at once.

*If brake fluid leakage is found, ask a dealer for immediate repairs. Such leakage could indicate a hazardous condition.

Throttle Grip



a. Free play 3-5 mm

Turn the throttle grip and check the free play to see if it operates properly. Make sure the grip returns to the original position by spring force when released. Ask your local dealer to make any necessary adjustments.

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PRE-OPERATION CHECKS

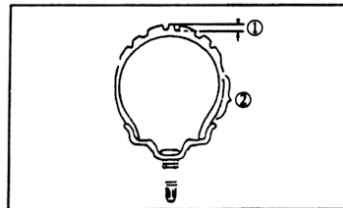
Make sure the total weight of the cargo, rider, passenger, and accessories do not exceed the maximum loading limit of your scooter. Operating overloaded scooter could cause tire rupture, an accidents, and injuries.

NOTE:

Proper loading affects several characteristics of your scooter, such as handling, braking, acceleration, and safety. Do not carry loosely packed items that can shift during travel. Securely pack your heaviest items close to the center of your scooter and distribute the weight evenly from side to side. Properly adjust the suspension to your load, and check the condition and pressure of your tires.

Tire Inspection

Always check the tires before operating your scooter. Contact a dealer if center tread depth reaches the limit as show, if the tire has a nail or glass fragments in it, or if the sidewall is cracked, and have the tire immediately replaced.



1. Tread depth 2. Side wall

Minimum Tire Tread Depth:

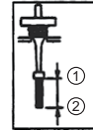
Front: 1.5mm

Rear: 2.0mm

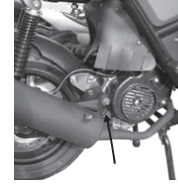
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PRE-OPERATION CHECKS

Engine Oil



1. Maximum level
2. Minimum level



1. Dipstick a. Maximum level b. Minimum level

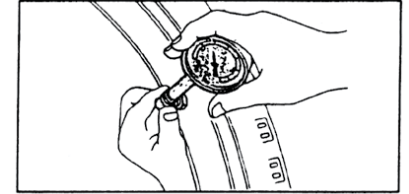
Make sure the engine oil is at the specified level.

Fill with oil if necessary. (See page 23 for details).

Recommended Engine Oil:

Four stroke engine oil SAE 15W-40 SF

Tires



To ensure maximum performance, longer durability, and safe operation, always check and adjust the tire pressure before operating your scooter.

NOTE:

*Tire pressure should be checked and adjusted when tire temperature equals the ambient air temperature. Tire pressure must be adjusted according to the total weight of cargo, rider, passenger, accessories, and vehicle speed. Refer to tire walls for proper inflation pressure.

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PRE-OPERATION CHECKS

Fittings and Fasteners

Always check the tightness of chassis fittings and fasteners before a ride. Take your scooter to a dealer to correct all fittings and fasteners to proper torque.

Lights, Signals, and Switches

Check all the lights. Make sure they are in working condition. Check the operation of the handlebar switches and the main switch.

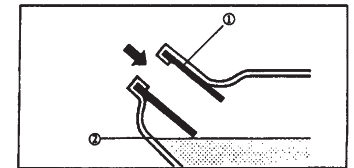
Mirror

Adjust mirrors as shown in illustrations below to ensure maximum visibility



Adjust the rear view mirrors so that when you are seated on the scooter, you have the best view of rear traffic.

Fuel



1. Filler tube 2. Fuel level

Recommended Fuel:

90 octanes or higher unleaded gasoline

Fuel Tank Capacity:

Total 6.4 L

NOTE:

*Do not fill the fuel tank above the bottom of the filler tube as shown in the illustration. Fuel tank may overflow when the fuel heats up and expands.

*Always wipe off spilled fuel immediately with a dry and clean soft cloth. Fuel may deteriorate painted surfaces or plastic parts.

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OPERATION

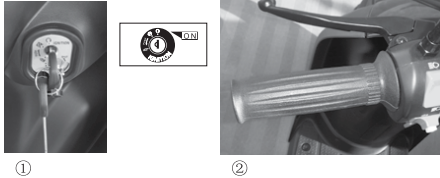
Start An Engine

*Park before starting.

*Return the side stand to its original position.

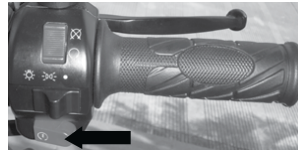
*Check if there is sufficient fuel and engine oil.

1. Turn the main switch to ON.



2. Completely release the throttle grip, apply rear brake lever.

3. Push the starter switch. Do not touch the starter switch again once the engine has started.

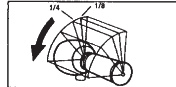


③

NOTE:

*If the engine fails to start, release the start switch, wait a few seconds, then try again. Each attempt should not be over 4 seconds to preserve the battery. If the engine has not started after 4-5 attempts, turn the throttle grip 1/8-1/4 turn, then push the starter switch again.

*For an engine which can not be cranked by electric start, or a vehicle which has not been used for a long time, turn on the main switch and throttle grip and apply kick starter to crank the engine.



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OPERATION

Acceleration

The speed can be adjusted by opening and closing the throttle grip. Turning it toward you increases the speed, while turning it away from you decreases the speed.



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Parking

When parking the scooter, stop the engine and turn off the main switch. Remove the key!



NOTE:

*The muffler is hot after operation. Park the scooter in a place where pedestrians or children are not likely to touch the scooter.

*Do not park the scooter on a slope or soft ground, the scooter may overturn.



OPERATION

5. For a cold vehicle, preheat the engine for 1-3 minutes before riding.

NOTE:

*For maximum engine life, never accelerate hard with a cold engine.

*Always return the kick starter to the original position after starting.

*The exhaust fumes are poisonous and can cause loss of consciousness and even death within a short time. You must operate your scooter in an area with adequate ventilation.

Starting Off

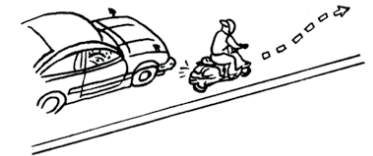
1. Apply the rear brake lever with your left hand and hold the rear grip with your right hand. Push the scooter off the main stand.

2. Sit astride the seat, with left foot touching the ground to avoid inclination.

3. Release the rear brake lever.

4. Check for oncoming traffic and use your turn signal.

5. Turn the throttle grip slowly and you are off. Remember to turn off the signal after use.



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OPERATION

Engine Break-in Period

There is never a more important period in the life of your scooter than the period between zero and 1,000 miles. For this reason we ask that you carefully read the following material. You should not place an excessive load on the engine for the first 1,000 miles. The various parts in a new engine wear and polish themselves to the correct operating clearances during this period. Prolonged full throttle operating or any condition that might result in excessive heating of the engine should be avoided.

Keep the riding speed below 40mph within the first 1,000 miles.

See the following for details:

1. 0-200 miles:

Keep the speed below 20 miles per hour.

2. 200-350 miles:

Keep the speed below 25 miles per hour.

3. 350-550 miles:

Keep the speed below 30 miles per hour.

NOTE:

*After 1,000 miles of operation, be sure to replace the engine oil and clean the oil filter. If engine trouble occurs during the break-in period, consult your dealer immediately.

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PERIODIC MAINTENANCE AND REPAIR

Periodic Maintenance and Minor Repair

Periodic inspection, adjustments, and lubrication will keep your scooter in the safest and most efficient condition possible. You must take into consideration that weather, terrain, geographical locations, and a variety of causes all tend to demand that each owner alter the time schedule for regular maintenance to shorter intervals.

The most important points of scooter maintenance: inspection, adjustments, and lubrication are explained in the following pages.

NOTE:

***If you are not familiar with servicing your scooter, consult your local dealer. Your scooter is designed for use on paved road surfaces only. If you operate the scooter in abnormally dusty, muddy, or wet conditions, the air filter should be cleaned or replaced more frequently. Consult your local dealer for proper maintenance intervals.**

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PERIODIC MAINTENANCE AND REPAIR

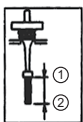
Engine Oil

1. Oil Level Measurement

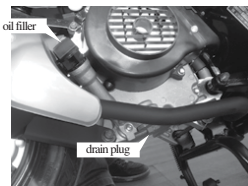
- Place the scooter on the center stand. Warm up the engine for several minutes.
- Stop the engine and wait a few minutes until the oil levels before removing the dipstick.
- The oil level should be between the minimum and maximum mark on the dipstick. If the level is low, add oil to raise it to the specified level.

NOTE:

***Be sure your scooter is positioned straight up when checking oil level. A slight tilt toward the side can result in false reading.**



- Maximum level
- Minimum level



2. Engine oil replacement

Replace engine oil after the initial 200 miles. Thereafter, replace engine oil every 650 miles. Check the oil level after every 300 miles. Add oil to specified level if necessary.

3. Start the engine and warm up for a few minutes. While warming up, check for oil leakage. If oil leakage is found, stop the engine immediately and check for the cause.

Follow the steps outlined below to change engine oil:

- Warm up the engine for a few minutes.
- Stop the engine. Place an oil pan under the engine and remove the dipstick.
- Remove the drain plug and drain the oil.
- Clean the oil filter with solvent.
- Reinstall the oil filter and drain plug.
- Fill the engine with oil and install the dipstick.

NOTE:

***If your scooter is often ridden on bumpy roads, in cold weather, or for short distances, engine oil should be replaced sooner than prescribed by this manual. Consult your local dealer for recommendations.**

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PERIODIC MAINTENANCE AND REPAIR

PERIODIC MAINTENANCE CHART

ITEM	RIDING DISTANCE (mi)													Daily Checks	
	190	620	1250	1850	2500	3100	3700	4350	4950	5600	6200	6800	7450		
Engine Oil	R	R	R	R	R	R	R	R	R	R	R	R	R	R	I
Engine Oil Filter	C				C				C					C	
Gear Oil	R			R			R			R				R	
Spark Plug	Clean at every 1250mi, replace if necessary.														
Valve Clearance		A			A				A					A	
Cam Chain		A			A				A					A	
Carburetor					I				I					I	
Air Cleaner	Clean the element at every 1250mi and replace at every 3100mi.														
Fuel Filter	Clean at every 620mi, replace if necessary.														
Brake System		I	I	I	I	I	I	I	I	I	I	I	I	I	I
Drive Belt															
Screws and Nuts of Each Part	T					T							T		
Exhaust Emissions	Check with local laws and regulations regarding emissions inspections.														
*If your scooter exceeds the riding distance listed in the maintenance chart, follow the intervals for service.															
*If your scooter is frequently used in a dusty area, air filter should be cleaned or replaced more frequently.															

I: Check, clean, lubricate, adjust or replace if necessary A: Adjust C: Clean R: Replace T: Tighten

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PERIODIC MAINTENANCE AND REPAIR

Gear Oil Replacement

Replace the gear oil after the initial 200 miles. Thereafter, replace oil again every six months or 2,000 miles, whichever occurs first.

Do As Below Described For Replacement:

- Put the scooter on the center stand.
- Place an oil pan under the gear case.
- Remove the oil filler bolt and the drain plug to drain the oil.
- Reinstall and tighten the drain plug.
- Fill the gear case with oil.
- Reinstall the oil filler bolt.
- After replacing the gear oil, be sure to check for oil leakage.

Recommended oil: SAE 85W 90 SF

NOTE:

***Do not let foreign materials enter the gear case. Be sure oil does not get on the back tire or wheel.**

Cleaning of Air Filter

The air filter should be cleaned at the specified intervals. It should be cleaned more frequently if you often ride in wet or dusty areas.

- Place the scooter on the center stand.
 - Remove the left side panel by removing the screws on it.
 - Remove the air filter cover by removing screws on it.
 - Take out the air filter and remove the screws on it.
 - Remove the air filter element and wash gently, but thoroughly in solvent. Replace air filter if it is damaged.
 - Squeeze out excess solvent, and dry it.
 - Apply oil to the entire surface of the air cleaner and squeeze out the excess oil. It should be damp, but not dripping.
 - Reinstall the air filter and the air filter cover.
- Recommended oil:** Same as engine oil.

NOTE:

***Drain the oil accumulated in the clear tube after every 650 miles.**

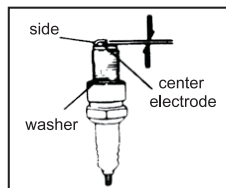
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PERIODIC MAINTENANCE AND REPAIR

Spark Plug Inspection

The spark plug is an important engine component. The condition of the spark plug can indicate the condition of the engine. Therefore, you should periodically inspect it for signs of deterioration. The ideal color on the white insulator around the center electrode is a medium to light tan color for a scooter that is being ridden normally.

Deposits will cause the spark plug to slowly break down and erode. You should replace the spark plug if electrode erosion becomes excessive, or if carbon and other deposits become excessive. Before installing the spark plug, measure the electrode gap with a wire thickness gauge. Adjust the gap to the specification.



Spark Plug Gap: 0.8mm

When installing the plug, always clean the gasket surface. Wipe off any grime from the threads. Tighten the spark plug with your fingers first, then finish tightening with a wrench.

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PERIODIC MAINTENANCE AND REPAIR

Brake Fluid Replacement

1. Complete fluid replacement should be done only by trained personnel.

2. Have a dealer replace the following components during periodic maintenance or when they are damaged or leaking.

- Replace all rubber seals every two years.
- Replace all hoses every four years.

Brake Lever Lubrication

Lubricate the pivoting parts of both brake levers.

Recommended lubricant:
SAE 10W40 motor oil

Cable Inspection and Lubrication

Inspect the inner cable and the cable end. If it does not operate smoothly, ask a dealer to replace them.

NOTE:

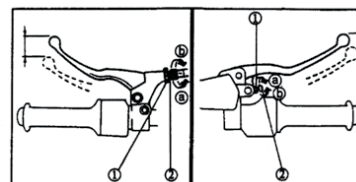
***Damage to the outer housing of cables may allow internal rusting and cause interference with cable movement. Replace damaged cables as soon as possible to prevent unsafe conditions.**

Recommended lubricant:
SAE 10W40 motor oil

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PERIODIC MAINTENANCE AND REPAIR

Brake Lever Free Play Adjustment



1.Locknut 2.Adjusting bolt

The front brake lever free play should be adjusted to 2-5mm at the brake lever end.

The rear brake lever free play should be adjusted to 2-5mm at the brake lever end.

Loosen the locknut and turn the adjusting bolt in direction A to increase free play, in direction B to decrease free play. Be sure to tighten the locknut after adjustments.

NOTE:

When it is not impossible to make the proper adjustments on your own, consult your local dealer for professional guidance.

Inspection of Brake Fluid Level

Insufficient brake fluid may allow air to enter the brake system, possibly causing the brakes to become ineffective. Before riding, check that the brake fluid is above the minimum level and fill when necessary.

Observe These Precautions:

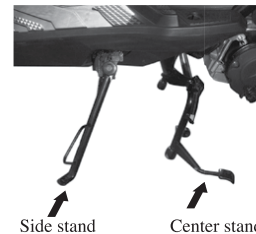
- When checking the brake fluid level, make sure the top of the master cylinder is leveled.
- Use only the designated brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor brake performance. **Recommended Brake Fluid: DOT3**
- Refill with the same type of brake fluid. Mixing fluid may result in a harmful chemical reaction and lead to poor brake performance.
- Be careful that water does not enter, which may result in vapor lock.
- Brake fluid may deteriorate painted surfaces and plastic parts. Always clean up the spilled fluid immediately.
- Have a dealer check the cause if brake fluid level goes down.

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PERIODIC MAINTENANCE AND REPAIR

Center and Side Stand Lubrication

Lubricate the pivoting joints. Check to see that the center and side stand move up and down smoothly.



Recommended lubricant:
Lithium Based Grease

NOTE:

***If the center or side stand does not move smoothly, consult a dealer.**

Front Fork Inspection

Securely support the scooter so there is no danger of it falling over.

1. Visual Check:

Check for scratches or damage on the inner tube and excessive oil leakage from the front fork.

2. Operation Check:

Place the scooter on a level place.

- Hold the scooter in upright position and apply the front brake.
- Push down hard on the handlebars several times and check if the fork rebounds smoothly.

NOTE:

***If any damage or jerky movement is found with the front fork, consult your local dealer.**

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EMISSION CONTROL SYSTEM WARRANTY

Your new BMS vehicle complies with the U.S. EPA, and State of California emission regulations (models certified for sale in California only). BMS MOTORSPORTS, INC. provides the emission warranty coverage for engines in the United States and its territories. In the remainder of this Emission Control System Warranty, BMS MOTORSPORTS, INC. will be referred to as BMS

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and BMS are pleased to explain the emission control system warranty on your 2020 Highway Motorcycle - 1b (50-169cc). In California, new motor vehicles must be designed, built and equipped to meet State's stringent anti-smog standards. BMS must warrant the emission control system on your motorcycle for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your motorcycle. Your emission control system may include parts such as the carburetor or fuel injection system, the ignition system, catalytic converter and engine computer, if it is equipped. Also included may be hoses, belts, connectors and other emission-related assemblies. Where a warrantable condition exists, BMS will repair your motorcycle at no cost to you including diagnosis, parts and labor.

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WARRANTY COVERAGE

- BMS warrants that each new 2020 and later BMS motorcycles:
- A. is designed, built and equipped so as to conform at the time of initial retail purchase with all applicable regulations of the United States Environmental Protection Agency, and the California Air Resources Board; and
 - B. is free from defects in material and workmanship which cause such vehicle to fail to conform with applicable regulations of the United States Environmental Protection Agency or the California Air Resources Board for the periods specified above.

The emission control system warranty period for this vehicle begins on the date the vehicle is delivered to the first purchaser other than an authorized dealer, or the date it is first used as a demonstrator, lease, or company vehicle, whichever comes first and continues for the period of time listed above. This warranty is transferable to each subsequent purchaser for the duration of the warranty period.

Warranty repairs will be made without charge for diagnosis, parts, or labor. All defective parts replaced under this warranty become the property of BMS. A list of warranted parts is included in this warranty statement. Normal maintenance items, such as spark plugs and filters, that are on the warranted parts list are warranted up to their required replacement interval only.

Only BMS approved replacement parts may be used in the performance of any warranty repairs and must be provided without charge to the owner. The use of replacement parts not equivalent to the original parts may impair the effectiveness of your engine emission control system. If such a replacement part is used in the repair or maintenance of your engine, and an authorized BMS dealer determines it is defective or causes a failure of a warranted part, your claim for repair of your engine may be denied. If the part in question is not related to the reason your engine requires repair, your claim will not be denied.

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MANUFACTURER'S WARRANTY COVERAGE

The 2020 and later model year highway motorcycle are warranted for 12,000 km or for 5 years, whichever comes first. If any emission-related part on your vehicle is defective, the part will be repaired or replaced by BMS. This is your emission control system DEFECTS WARRANTY.

OWNER'S WARRANTY RESPONSIBILITIES

As the vehicle owner, you are responsible for the performance of the required maintenance listed in your owner's manual. BMS recommends that you retain all receipts covering maintenance on your vehicle, but BMS cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

You are responsible for presenting your vehicle to the BMS' dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. As the vehicle owner, you should be aware that EMS may deny your warranty coverage if your vehicle or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

If you have any questions regarding your warranty rights and responsibilities, you should contact BMS MOTORSPORTS, INC. 1151 Spruce St, Riverside Ca 92507 TEL 951-274-9267 or (for California registered highway vehicles only) the California Air Resources Board at 9528 Telstar Avenue, El Monte, CA 91731-8001.

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TO OBTAIN WARRANTY SERVICE

You must take your BMS Vehicle, along with your sales receipt or other proof of original purchase date, at your expense, to any BMS dealer who is authorized by BMS to sell and service that BMS product during his normal business hours. Claims for repair or adjustment found to be caused solely by defects in material or workmanship will not be denied because the vehicle was not properly maintained and used.

Repair or replacement of any warranted part is performed at no charge at a warranty station, except in an emergency situation. An emergency occurs when a warranted part or a warranty station is not reasonably available to the owner. In an emergency, repairs may be performed at any available service establishment, or by any individual, using any replacement part. The manufacturer will reimburse the owner for the expenses, including diagnostic charges, not to exceed the manufacturer's suggested retail price for all warranted parts replaced and labor charges based on the manufacturer's recommended time allowance for the warranty repair and the geographically appropriate hourly labor rate. The owner may reasonably be required to keep receipts and failed parts in order to receive compensation. A part not available within 30 days, or a repair not complete within 30 days also constitutes an emergency.

If you are unable to obtain warranty service, or are dissatisfied with the warranty service you received, contact the owner of the dealership involved. Normally this should resolve your problem. However, if you require further assistance, write or call the BMS MOTORSPORTS, INC. Customer Service Department.

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EXCLUSIONS AND LIMITATIONS

This Emission Control System Warranty shall not cover any of the following:

- A. Repair or replacement as a result of
 - (1) accident,
 - (2) misuse,
 - (3) repairs improperly performed or replacements improperly installed,
 - (4) use of replacement parts or accessories not conforming to BMS' specifications which adversely affect performance and/or
 - (5) use in competitive racing or related events.
- B. Inspections, replacement of parts and other services and adjustments required for required maintenance.
- C. Any vehicle equipped with an odometer or hour meter on which the odometer mileage or hour meter reading has been changed so that actual mileage cannot be readily determined.

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LIMITED LIABILITY

- A. The liability of BMS under this emission control system warranty is limited solely to the remedying of defects in material or workmanship by an authorized BMS dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the vehicle or transportation of the vehicle to or from the BMS dealer. BMS shall not be liable for any other expenses, loss or damage, whether direct, incidental, consequential or exemplary arising in connection with the sale or use of or inability to use the vehicle for any purpose. Some states do not allow the exclusion or limitation of any incidental or consequential damages, so the above limitations may not apply to you.
- B. No express emission control system warranty is given by us except as specifically set forth herein. Any emission control system warranty implied by law, including any warranty of merchantability or fitness for a particular purpose, is limited to the express emission control system warranty terms stated in this warranty. The foregoing statements of warranty are exclusive and in line of all other remedies. Some states do not allow limitations on how long an implied warranty lasts so the above limitations may not apply to you.

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SYSTEMS COVERED BY THIS WARRANTY:	PARTS DESCRIPTION:
Fuel Metering	Carburetor assembly (includes starting enrichment system)
Evaporative	Fuel tank, Fuel cap, Fuel hoses, Carbon canister, Canister mounting brackets, Fuel hose joint, Canister purge hose joint
Exhaust	Catalytic Converter
Air Induction	Air filter housing, Air filter element*
Ignition	Ignition coil assembly, Ignition control module, Spark plug cap, Spark plug*
Crankcase Emission Control	Crankcase breather tube
Miscellaneous Parts	Tubing, fittings, seals, gaskets, and clamps associated with these listed systems.

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