

Tank Touring Deluxe Scooter 150cc 4 Stroke

Operating and Maintenance Manual



Contents

Save Driving Regulations	1	Parking	19
Driving Tips	2	Inspection & Servicing	21
Loading	3	Fuel	21
Features and Controls Locations	4	Braking	22
Operation	6	Brake Lights	23
Meters	6	Turn Signals	23
Indicators	6	Tires	24
Main Switch	7	Changing Gear Oil	24
Starting Button-Headlight Switch	8	Air Cleaner	25
Hi-Lo Beam Switch-Horn Button	9	Maintenance Schedule	26
Turn Signal Switch	9	Spark Plug	27
Key-Helmet-Luggage Box	10	Fuse Replacement	28
Steering Lock	11	Clean Battery	29
Ignition Switch	12	Adjusting Carburetor and Choke	30
Electric Starting	13	Cleaning Air Cleaner	31
Kick Starting	13	Specifications	33
Natural Way Of Driving	14	Electrical Diagram	34
Driving Correctly	16		
Break In	17		

Disclaimer

I have done my best interpreting this manual. However, there may be mistakes in the translation, decimal points, etc. I take no credit for those.

Using this manual is at your own risk. I accept no responsibility for any errors or omissions herein. You will in no way hold me responsible for any problems associated with usage of this scooter or this manual. You agree to this by accepting this manual.

I am not associated with the company who manufactures the scooter or with any importer or dealer who imports or sells this scooter.

I am just a guy who works as an English Consultant in Taiwan and who has been dealing with this kind of situation for 7 years now and saw a need for a manual in understandable American English.

I don't as yet own one of these scooters. However, I intend to remedy that situation soon, within the next month or so when I take my annual leave in the US. I have a picture of it hanging on the wall in front of my computer to keep reminding me.

I hope that my endeavor helps you with understanding the scooter operations, maintenance, etc. I know, who reads the manual anyway?

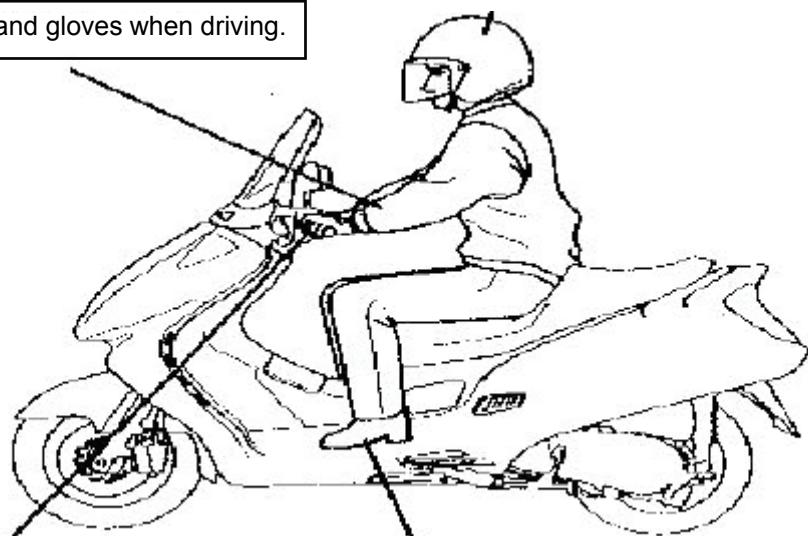
Enjoy.

Russell C. Huff
800 Chung Shan N. Road
Section 6
Taipei, Taiwan 11100

Safe Driving

The main point of safe driving is to relax and wear comfortable clothing.

Wear helmet and gloves when driving.



Hold the handlebars with both hands. Never drive using only one hand.

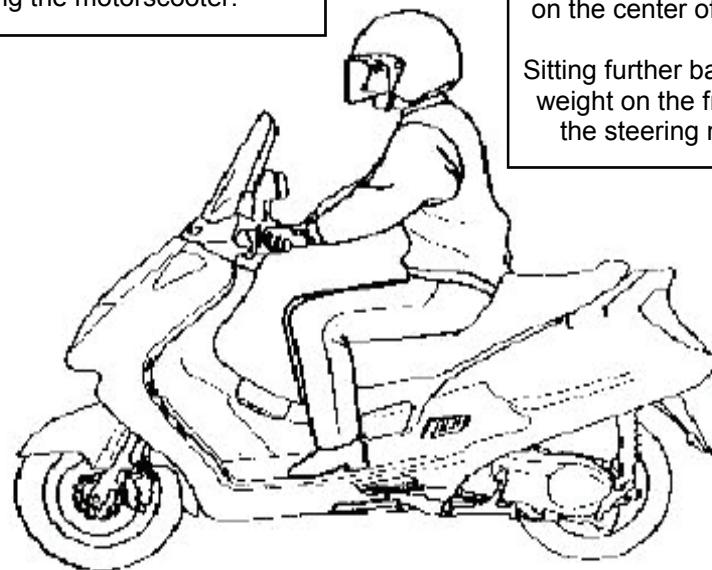
Wear protective shoes.

Avoid wearing loose or long clothing.

To avoid a burn injury, be careful to avoid any contact with the hot exhaust system after running the engine.

Driving Tips

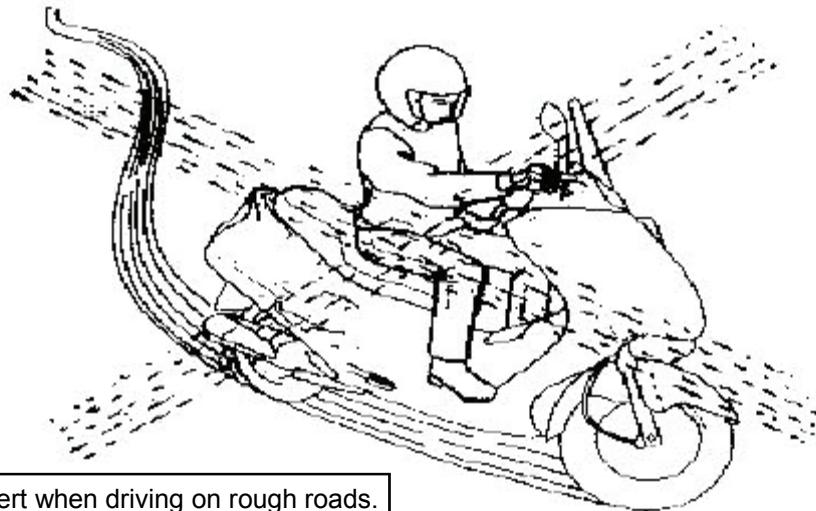
Maintain your natural posture while operating the motorscooter.



For proper weight distribution, sit on the center of the double seat.

Sitting further back will reduce the weight on the front end, making the steering more sensitive.

When turning or swerving, keep your weight to the inside of the turn.



Be alert when driving on rough roads.

Loading

The steering becomes more sensitive when placing weight to the rear of the motorscooter.

When passing, with a load on the motor-scooter, the steering may become very light.

Please drive with caution.



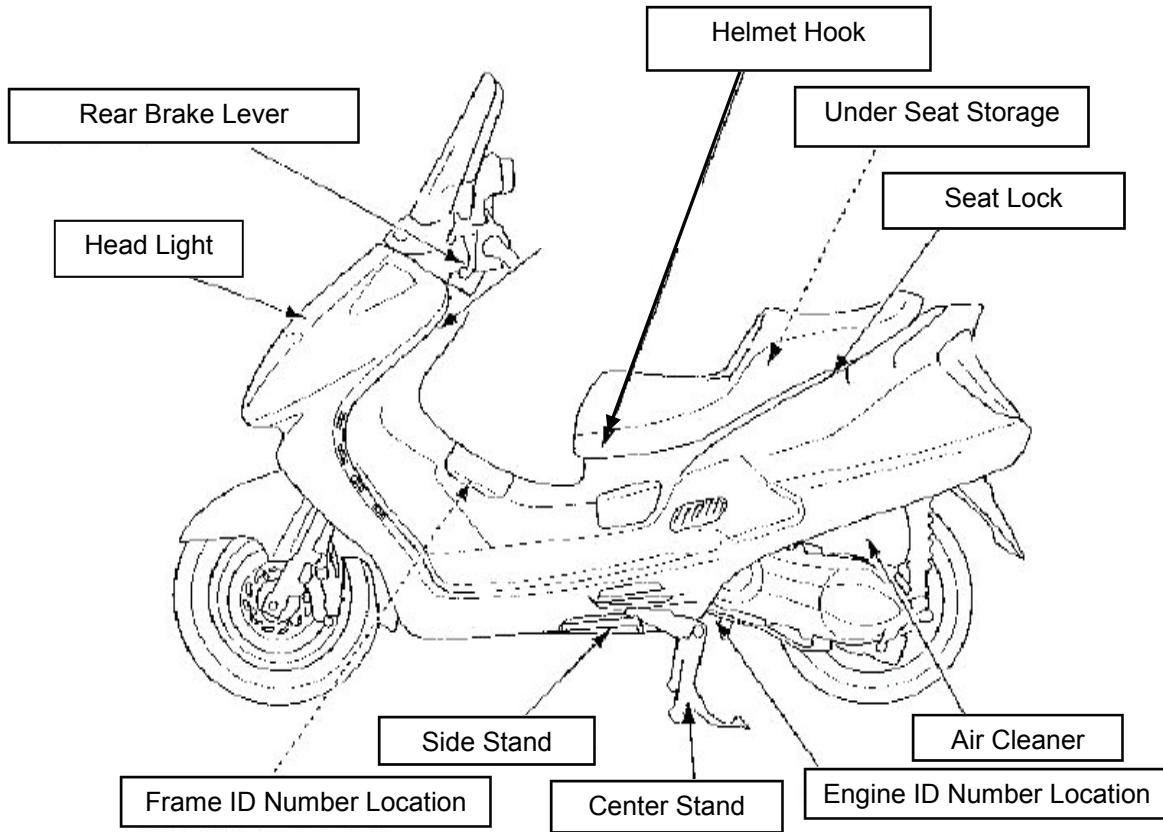
Maximum Weight
under the seat:
22 Lbs.

Don't replace
the bolts of the
luggage rack
with pointed
bolts or screws
as this will
damage the
body.

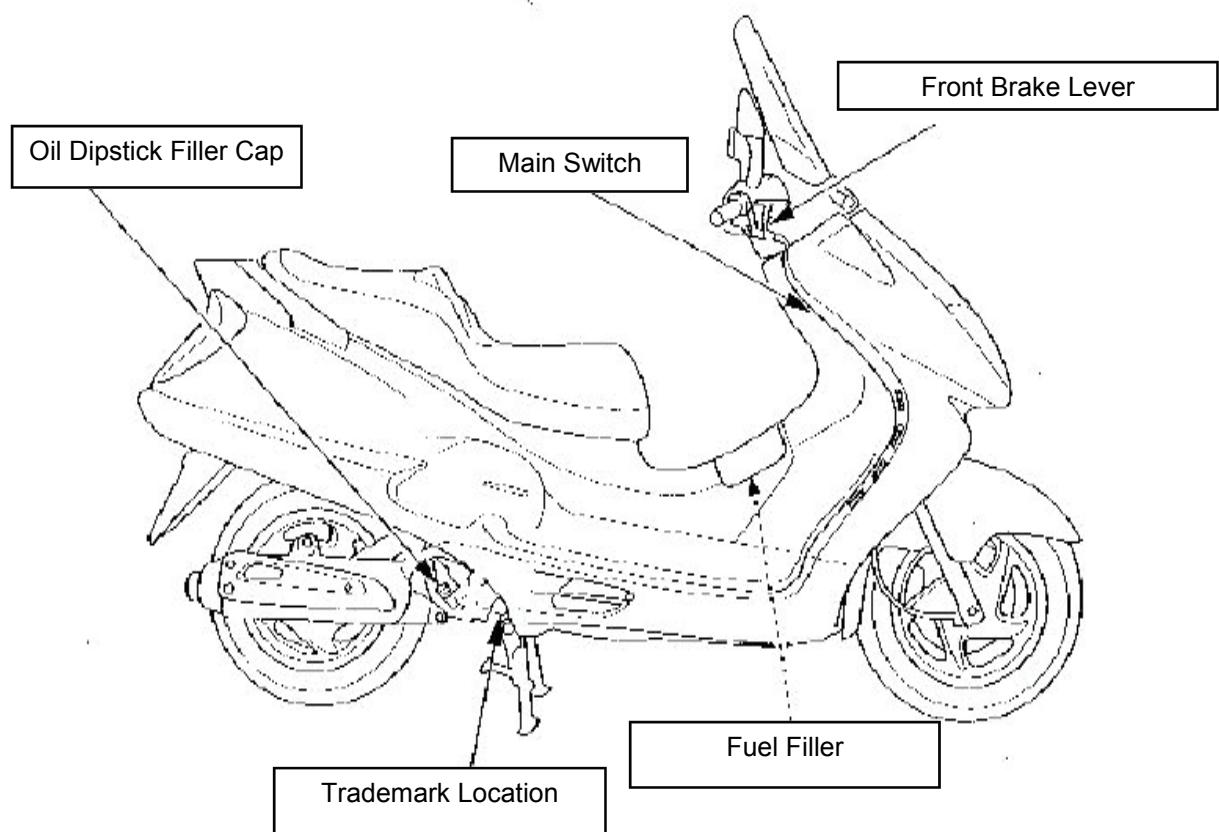
Don't allow clothing to cover the air intake on the frame side panel as this will overheat the engine.

Be careful not to allow clothing to cover the air filter as this will choke the engine.

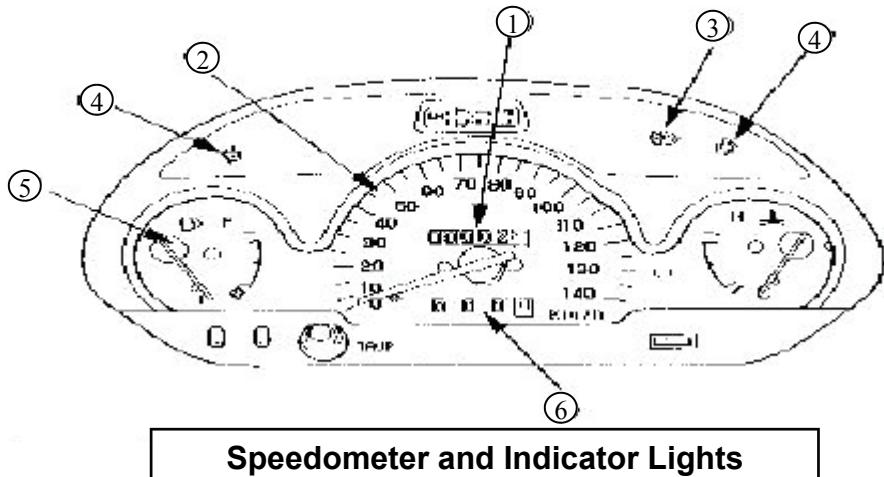
Features and Controls Locations



Features and Controls Locations



Operation



Speedometer and Indicator Lights

① Mileage Indicator

Displays distance traveled by the motorscooter in Kmh.

② Speedometer

Displays speed in Kmh.

1 kilometer = 0.621371192 mile

③ Headlight Indicator

When lit, indicates headlight is on.

④ Turn Signal Indicator

When lit, indicates turn signal is activated.

⑤ Fuel Gauge

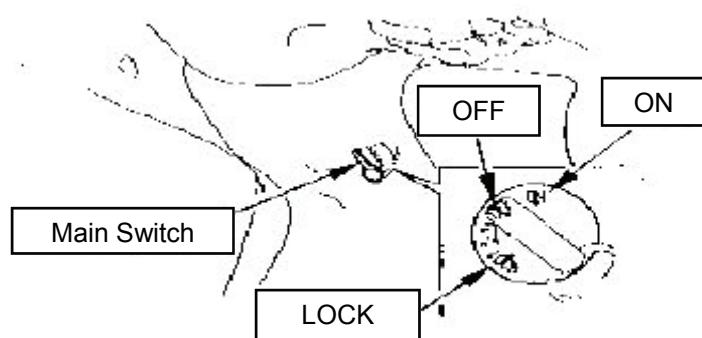
Indicates the remaining fuel in the fuel tank (with the main switch turned ON the indicator is correct, with the main switch turned OFF the indicator is not correct) When the needle reaches the red zone, it indicates 1.5L of fuel is remaining in the tank. 90 octane fuel needs to be supplied within a short time.

1 liter = 0.264172051 US gallon

⑥ Trip Meter

Used for short trips and can be reset to "0".

Main Switch



OFF Electrical source is turned off and the engine stopped.
The key can be removed.

ON Electrical source is on, engine may be started.
The key cannot be removed.

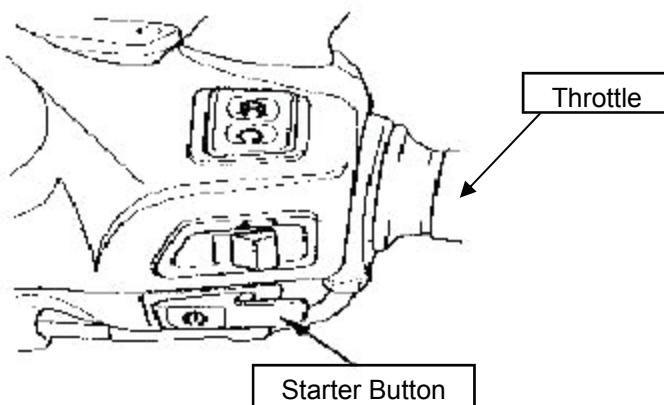
LOCK The steering column is locked.
The key can be removed.

NOTE: To prevent theft, when parking the motorscooter, lock the steering column and remove the key .

Controls

Starter Button

In order to use the electric start, you must engage the front or rear brake by pulling on the brake lever.

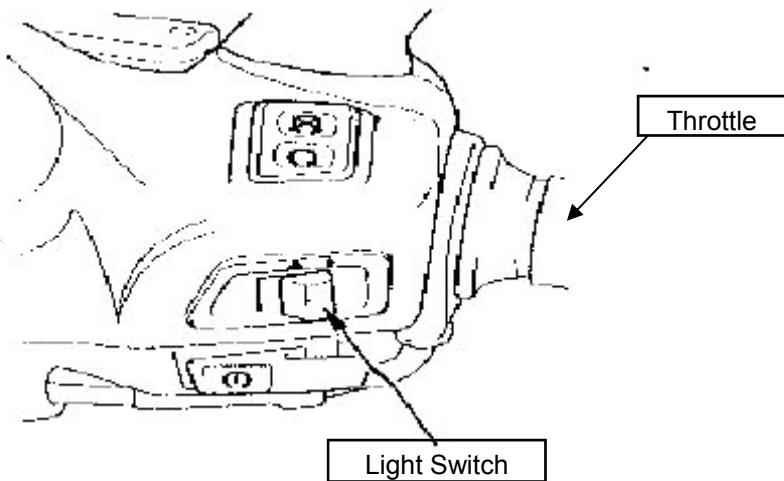


Headlight Switch

OFF Headlights, side lights and speedometer light OFF.

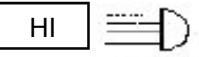
Sidelights and speedometer lights ON, headlights OFF.

Headlights and speedometer lights ON, sidelights OFF



Controls

Headlight, Hi/Lo Beam and Passing Switch



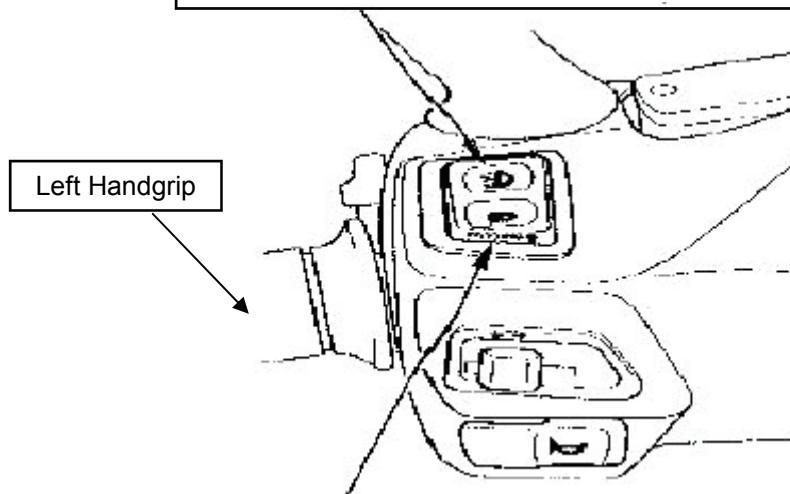
High beam, high speed driving.



Low beam, low speed and city driving.



Flashes lights to indicate passing.



Turn Signal Switch

L Left Turn.

R Right Turn.

Turn signal switch is not self canceling, please turn off after finishing your turn.

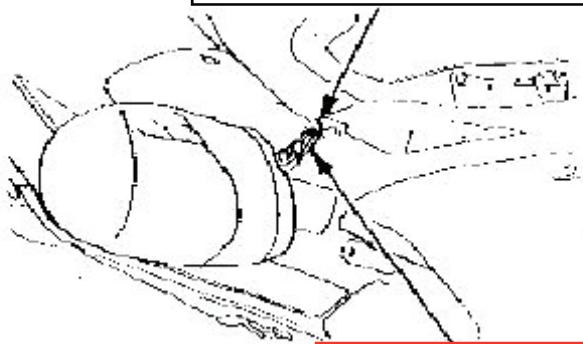
Horn Button

Main switch ON, press to sound horn.

Controls

Helmet Lock

Unlock and raise the seat, insert the helmet strap into the hook, lower and lock the seat.



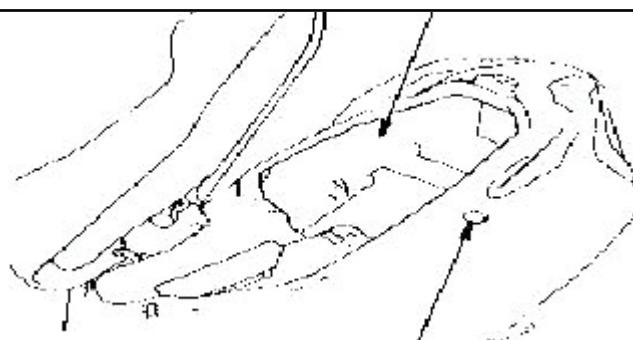
Do not leave a helmet in the lock while driving as body damage will occur to the scooter

Underseat Storage

Do not exceed item weight of 22 lbs.

Do not carry food or any other items that will be harmed by the engine heat.
Be careful not to get water inside during scooter washing.

Seat Lock



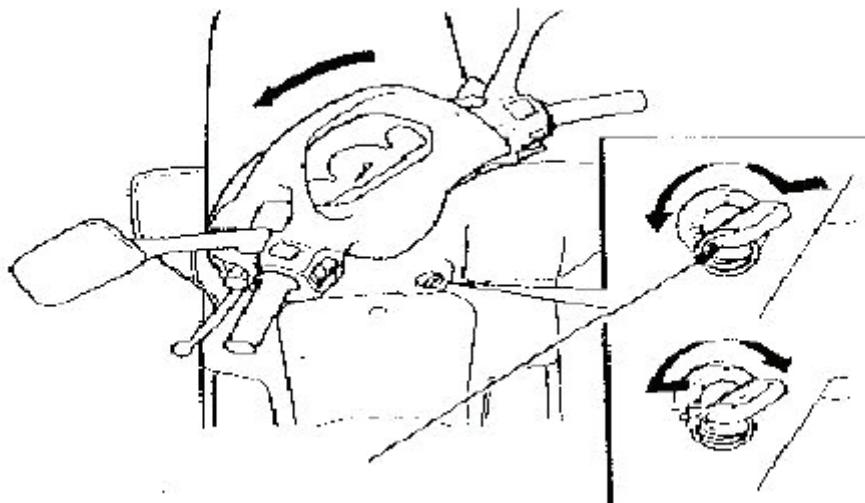
Controls

Steering Column Lock

To avoid theft, lock the steering when parking by turning the steering to the left and turning the key to LOCK.

Turn the steering lightly after locking to ensure it is locked.

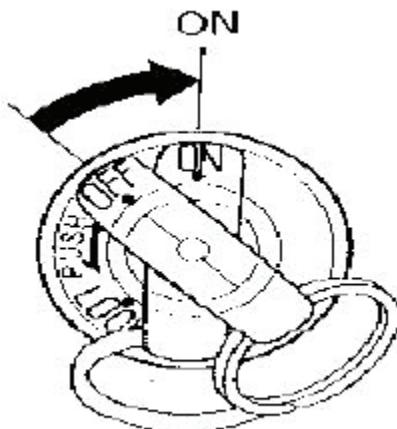
To avoid damage do not move the scooter after locking the steering .



Controls

Starting The Engine

1. Check the fuel, oil and battery before starting.
2. Stand the scooter on the Main Stand and make sure the rear wheel is up.
3. Turn the key to ON.
4. Pull in on either the front or rear brake handle and engage the starting button.



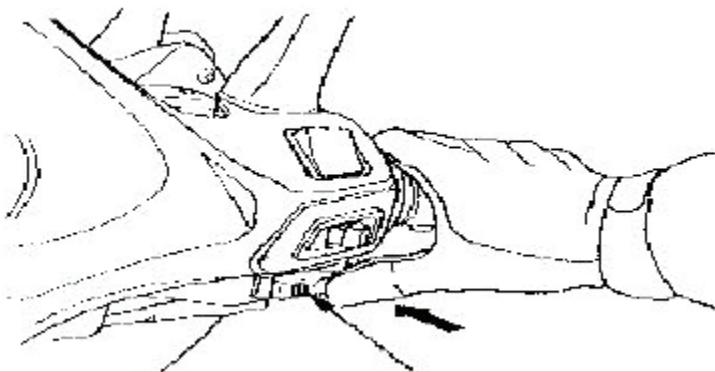
In cold weather, turn the key off and engage the kick starter 5 times then turn key on and engage the electric start. Let warm up 2-3 minutes before using.

Use the above procedure after not using the scooter for a long period of time.

The life of the scooter can be prolonged by using the above procedure when the scooter is new.

Controls

Electric Starting



Do not engage the starter longer than 3 seconds if the scooter fails to start.
Wait 10 seconds then try again but do not exceed 4 times.
Allow the starter to cool down before trying again.
After starting, release the starter button and continue to hold the brake.

Kick Starting



Before riding, return the kick starter lever to it's stored position

Scooter Operations

Push the scooter forward to remove it from the main stand which will fold up under the frame automatically.



Mount the scooter from the left side, seat comfortably and keep the left foot on the ground. Keep the brake engaged.



NOTE: Do not run the engine at high rpm until it has warmed up.

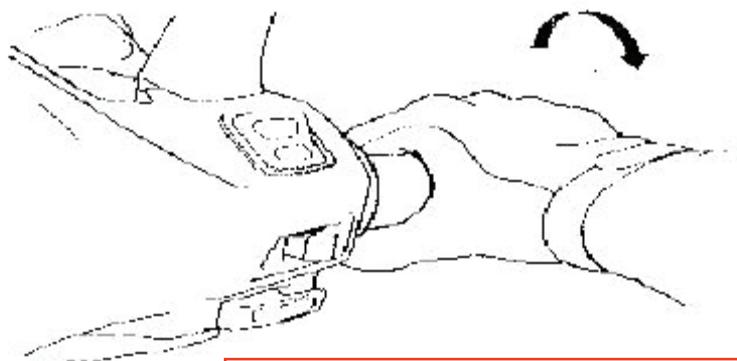
Scooter Operations

Release the brake.



NOTE: Do not add throttle before releasing the brake

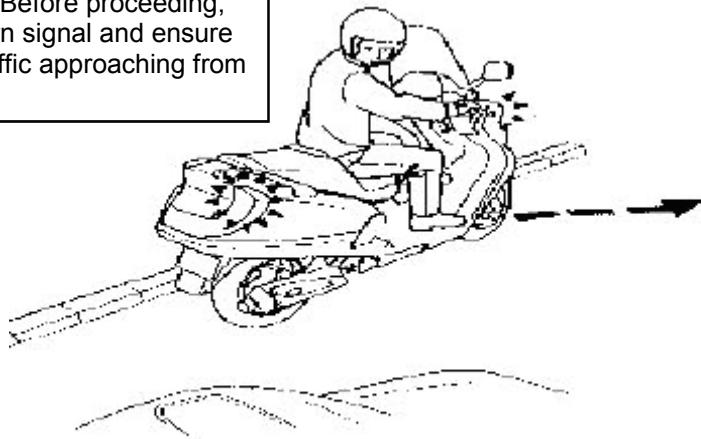
Turn the throttle slowly.



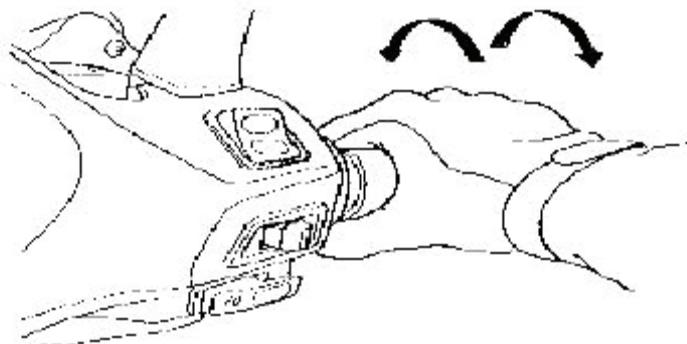
Add the throttle slowly to avoid a dangerous fast start.

Scooter Operations

Drive Safely. Before proceeding, turn on the turn signal and ensure there is no traffic approaching from the rear.



Speed is controlled by the throttle. Twisting towards you will increase the speed and power. Twisting away from you will lower the speed and power. If released, the throttle will return to its original position.



Add the throttle slowly to avoid a dangerous fast start.

Scooter Operations

The break-in period of the new motorscooter

Please keep the speed less than 60 km/h during the first 1500 km, details as follows:

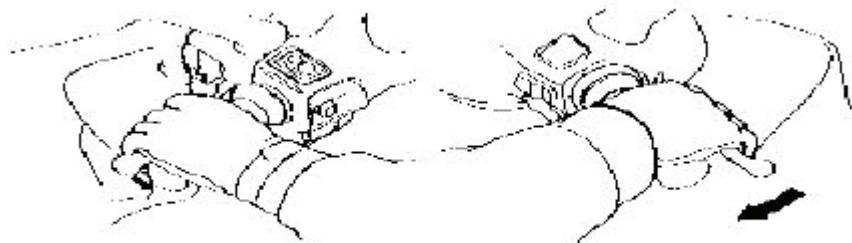
Driving Mileage km	0-300	300-500	500-1000	1000-1500
Speed km/h	25-30	35-40	45-50	55-60

Avoid accelerating quickly and passing.

Change the crankcase oil and gear oil after warming the motorscooter up.

Avoid driving a long time at full throttle by changing speeds after the break-in period.

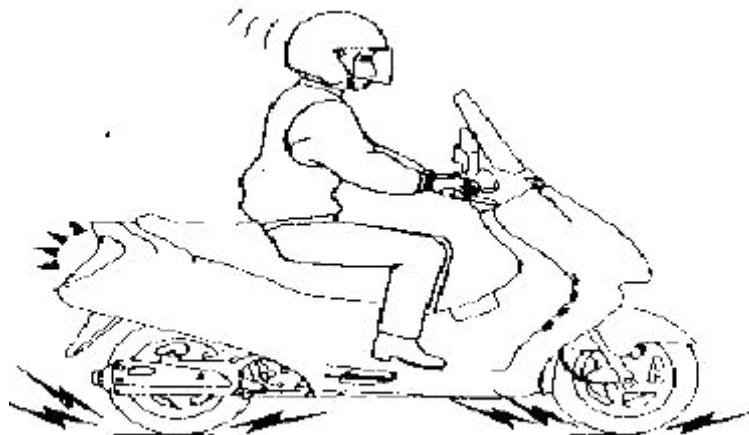
Use The Front And Rear Brakes When Stopping Or Parking.



Return the throttle to off position, then stop slowly using both brakes.
Place your left foot on the ground upon stopping.
Using only one brake may cause the scooter to skid.

Scooter Operations

Don't stop or swerve quickly without warning. This is a major cause of accidents.



Wet Weather Driving

Please drive slowly and decrease your driving distance.
When on a downgrade, return the throttle to OFF and use intermittent braking.

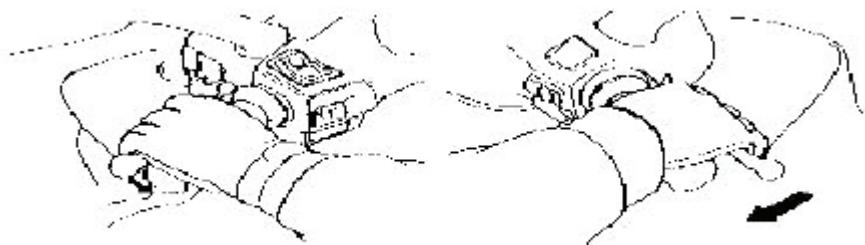
Scooter Operations

Parking

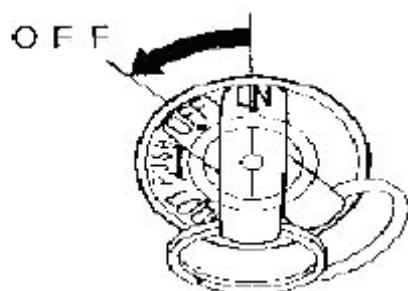
When near the parking space:

- Turn on the turn signal, note surrounding traffic and stop slowly.
- Turn the throttle OFF while braking.

NOTE: If the scooter inclines excessively the idle speed will become unstable.



Return the turn signal switch to off and turn off the main switch.



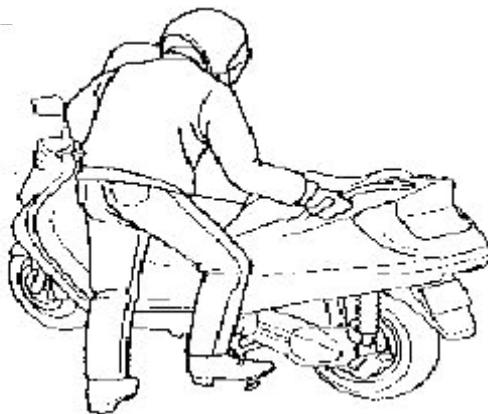
NOTE: If, when driving, you shut off the main switch, the electrical system is inoperative, therefore you will not have brake lights. Wait until the scooter is in the parking space and stopped before turning off the main switch.

Scooter Operations

Parking

When parking:

- Stand to the left of the scooter and operate the main stand with your foot.
- Hold the handle bar with the left hand and the handhold on the side of the seat with your right hand.
- Step down on the main stand with your right foot and pull the scooter to the rear.
- Make sure the scooter is parked on a level area to avoid it's falling over.
- Lock the steering column and remove the key.



Inspection Before Driving

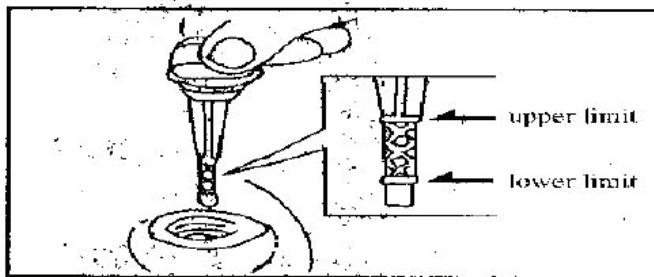
Please make it a habit to inspect the scooter before driving to avoid any problems. If you find some trouble with the vehicle, please contact the dealer or service establishment.

Scooter Operations

Servicing

Check and Service Oil

Remove and clean the oil dipstick. Reinsert and remove the dipstick and note the level of oil. Add oil to full level if it indicates below the low level



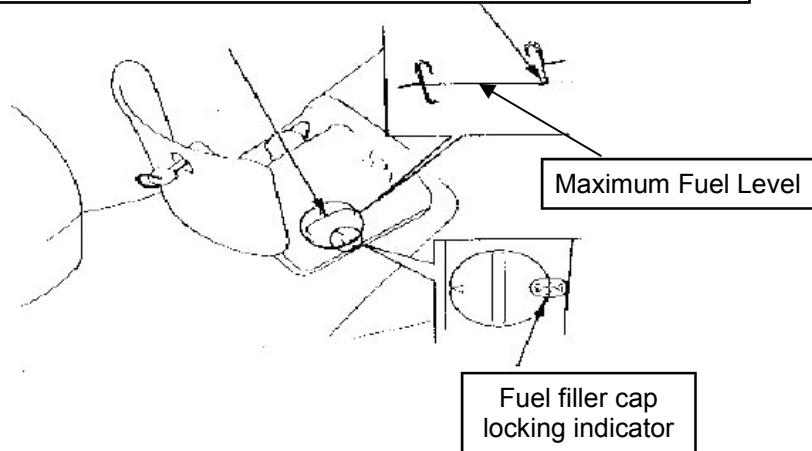
Recommended Oil

SAE 10W-30 (SIGMA)

Please do not use synthetic oil. Use oil as recommended to avoid any problems.

Check and Fill Fuel

Fuel the scooter when the fuel indicator reaches the red zone which indicates remaining fuel of 1.5L. Use 90 Octane fuel.

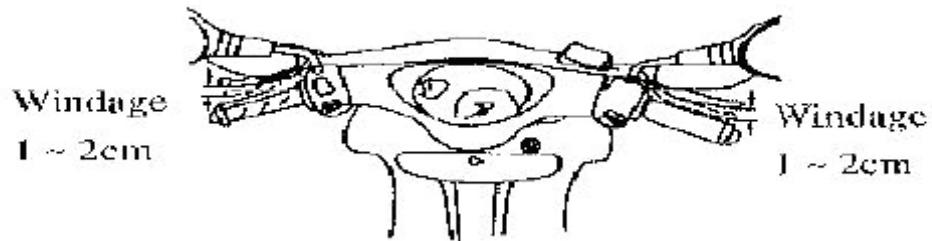


Scooter Operations

Servicing

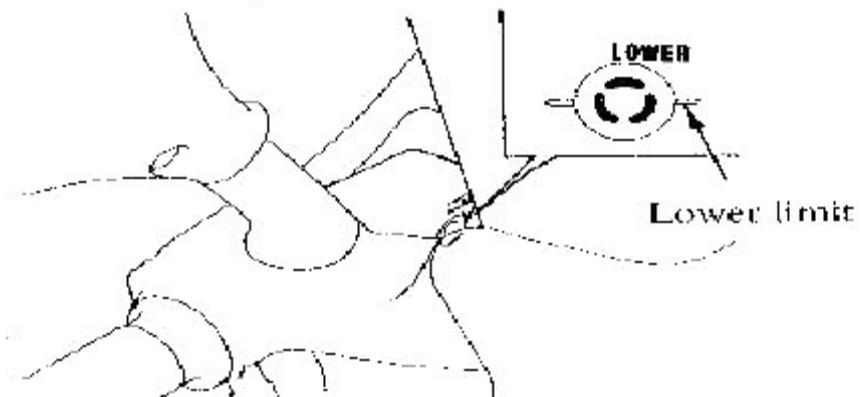
Check and Service Brakes

Movement of the brake levers should be 1-2 cm. Adjust if necessary.



Check and Fill Brake Fluid

Center the handlebars and check the fluid level in the right brake fluid tank. Maintain the level between the upper and lower limits. Use DOT3 fluid.

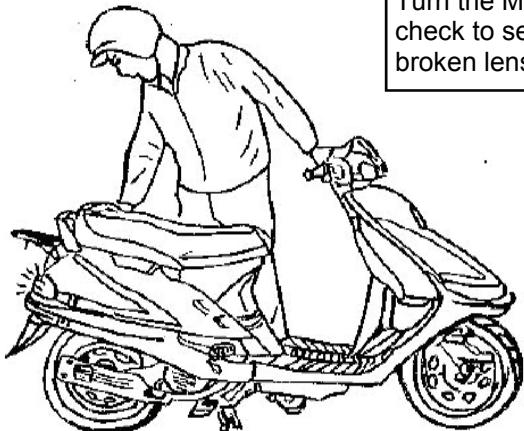


Scooter Operations

Servicing

Check Brake Lights

Turn the Main Switch ON. Engage the brake levers and check to see that the brake lights are on. Check for broken lenses and cleanliness.



Check Turn Signals

Turn the Main Switch ON. Engage the turn signal switch, check front and rear turn signals for proper operation, broken lenses and cleanliness.



Please maintain the vehicle to assure safe and comfortable riding.

Please check the scooter thoroughly after long periods of non-use.

Please perform the maintenance inspection after the first month of use or 300 km.

Scooter Operations

Servicing

Check Tire Pressure

Maintain the front tire pressure at 28.5 PSI and the rear tire at 32 PSI.

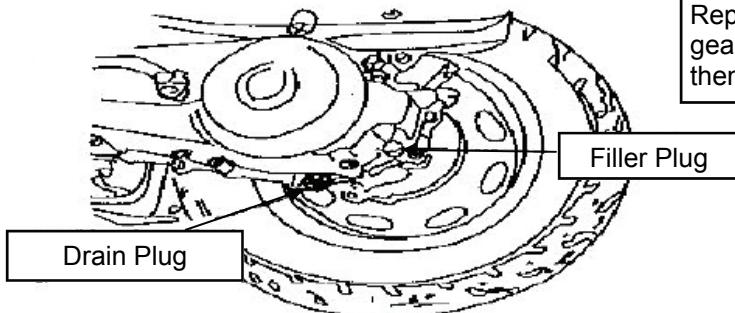


Check Tire Wear and Damage

Check for tread wear limits as shown above.
Repair or replace any tire damaged by a foreign object.

Change Gear Oil

Replace the 10 weight or GY gear oil after the first 300 km and then every 6 months or 3000 km.



Instructions:

1. Place the scooter on a smooth, level surface.
2. Warm the engine.
3. Remove the drain plug and drain the oil.
4. Clean the drain plug and replace it.
5. Pour oil into the filler opening.
6. Replace the filler plug.

Scooter Operations

Servicing

Check the Rear Wheel Spline and Hangar Set

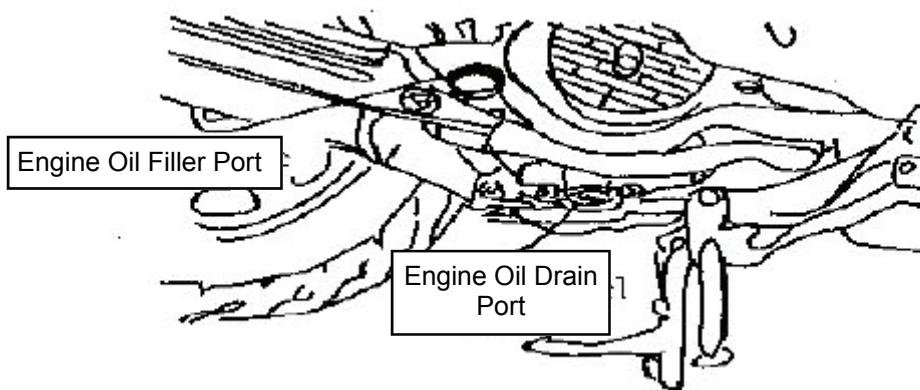
Support the scooter on the Main Stand, push the side of the rear wheel and observe if the collar and ring of the rear fork is loose. Carefully check whether the rear hangar is tight.

Check Air Cleaner

- Clean the paper air cleaner every 2000 km and add air cleaner oil.
- Replace every 5000 km.
- Check and replace more often if driven during wet weather or on dusty roads.

Change Engine Oil

Change the engine oil after the first 300 km of operation and then every 1000 km. Check the oil level every 500 km and fill as needed. Oil capacity 0.9 L. Normal oil change capacity 0.75 L.



Scooter Operations

Servicing

Inspection and Maintenance Schedule

To assure driving safety, to maintain performance, assure longevity and reduce pollution, please perform inspections and maintenance regularly.

I: Check, Clean, Lubricate, Adjust or Replace.
 A: Adjustment C: Cleaning R: Replace T: Tighten

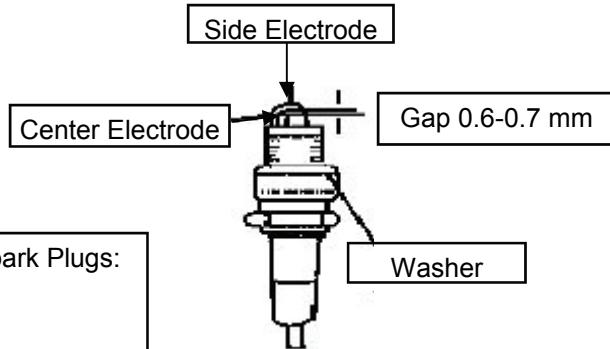
ITEMS	DRIVING DISTANCE (KM)												Check before driving
	300	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000
Engine Oil	R	R	R	R	R	R	R	R	R	R	R	R	I
Oil Filter Screen	C		C		C		C		C		C		C
Gear Oil	R		R		R		R		R		R		R
Spark Plug	Clean or Replace every 1000 km												
Valve Clearance .12 cold		A			A			A					A
Cam Chain		A			A			A					A
Carburetor			I		I		I		I		I		I
Air Cleaner	Clean every 2000 km and Replace every 5000 km												
Battery Electrolyte		I	I	I	I	I	I	I	I	I	I	I	I
Fuel Filter Screen	Clean or Replace every 1000 km												
Brake System		I	I	I	I	I	I	I	I	I	I	I	I
Drive Belt					I			I					I
Screws, Bolts and Nuts	T			T			T			T			T
Emissions	Regularly Check and Adjust to Avoid Pollution												

Scooter Operations

Servicing

Check Spark Plug

Check for cleanliness and electrode gap. Clean using a spark plug cleaner or brush.



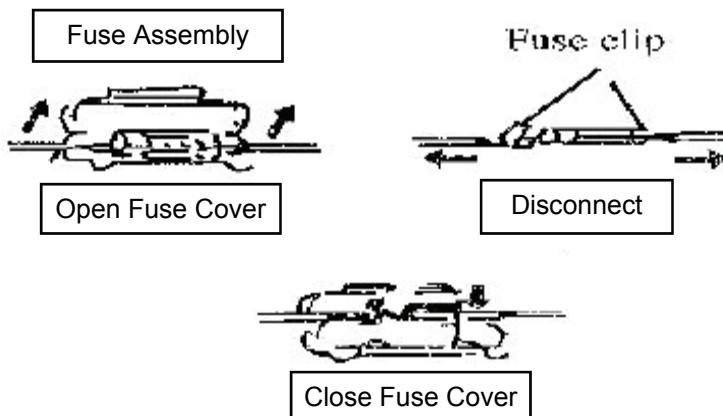
Be careful of burn injury if engine is hot.
Start the spark plug into the cylinder with
your hand and tighten with wrench. Be
careful to avoid cross threading.

Scooter Operations

Servicing

Fuse Replacement

1. Turn off the Main Switch and check whether the fuse is blown or not.
2. Remove the 3 screws of the battery cover and locate the fuse in the fuse box.
3. Replace the 7 Amp fuse if necessary.



NOTE: When opening the fuse cover, take care not to expand it too far. When closing, confirm that it snaps closed. Do not exceed the amperage of the fuse as this may cause further troubles.

If changing any electrical item is necessary, please use the specified parts. Using non-recommended parts will blow the fuse easily and the battery will lose its charge.

When cleaning the vehicle, avoid getting water in the electrical components.

Scooter Operations

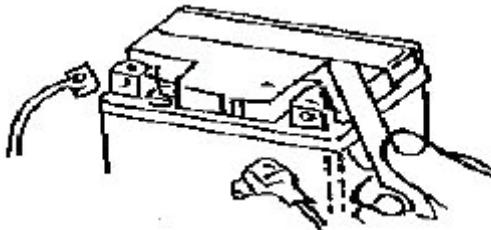
Servicing

Battery

- If the vehicle is supplied with a sealed battery, there is no need to check the electrolyte.
- If using a non-sealed battery, check the electrolyte fluid level and refill with distilled water as necessary.
- If not using the vehicle for a long period, remove the battery and store in a cool, well ventilated area to prevent discharge.

Battery Cleaning

1. Remove the 3 screws in the battery cover.
2. Disconnect and remove the battery.
3. Clean with a brush. Wipe Vaseline on posts.
4. Replace and reconnect the battery.
5. Replace the battery cover and 3 screws.



NOTE: When removing the battery, disconnect the positive post first.

When reinstalling, connect the positive post first.

Inspect and tighten the post screws as necessary.

Scooter Operations

Servicing

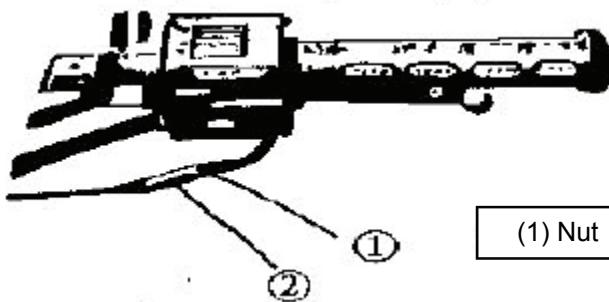
Carburetor and Choke Adjustment

The carburetor is adjusted for maximum efficiency at the factory and needs no further adjustment.

The choke and idle speed may need adjustment, however.

Adjusting the choke.

1. Check whether the choke and throttle are working well with the choke indicating full opening and closing.
2. Determine the free play in the throttle cable. 2-6 mm.
3. If this needs adjusted, loosen nut (1) and adjustor (2).



(1) Nut (2) Adjustor

Adjusting the idle speed

1. Start the engine and warm up.
2. Seat the fuel adjustment screw, then slowly open it about 3 1/4 turns. Lock it and adjust the limiting screw until the desired idle speed is reached.

Scooter Operations

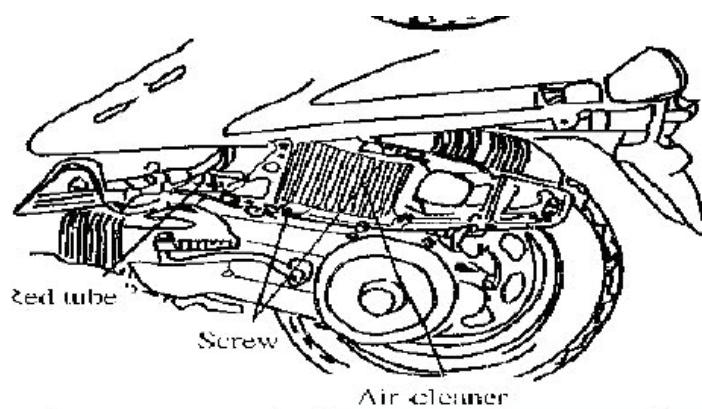
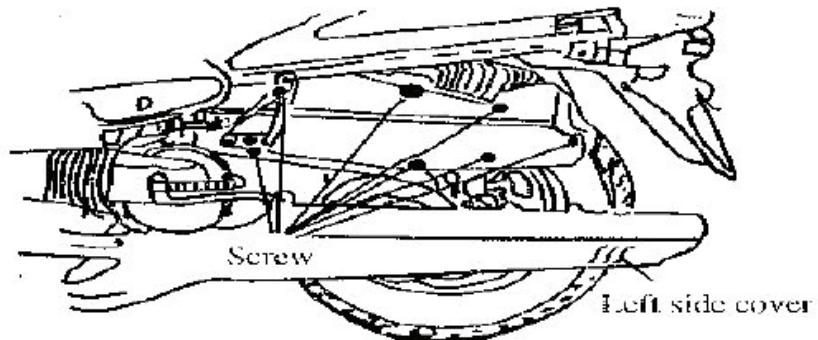
Servicing

Cleaning The Air Cleaner

Dust is the leading cause of loss of power and performance.

Removal

1. Remove the left side cover. 5 locking screws.
2. Remove the cover and air cleaner
3. Remove 2 screws holding the air cleaner.
4. Reinstall using the reverse procedure.



Scooter Operations

Servicing

Start	Electric/Kick Start	Tire Spec.	Front	110/90-12
Ignition System	CDI		Rear	130/70-12
Spark Plug	C7HSA (NGK)	Tire Pressure	Front	196 kpa / 28.42 psi
	U22FS-U (ND)		Rear	221 kpa / 32.05 psi
Lubrication System	Forced Lubricant	Electrical System		
Clutch	Dry-Auto Acentric	Battery		12V7Ah
Shifting System	Belt-Automatic	Headlight		12V 35W/35W
Deceleration Ratio	I. 2.800 II. 3.076	Taillight/Brake Light		12V 8W/20W
		Turn Signals		12V 10W ^o i 4
		License Light		12V 5W
		Speedometer Indicator		12V 1.7W ^o i 4
		Fuse		7A
		Horn		12V 3A 105dB(A)

Scooter Operations

Servicing

Specifications

Length/Width/Height	2070/735/1410	Min. Fuel Usage L/100Km	< 2.9
Wheel Base mm	1450	Braking Distance m	< 7(30km/h)
Dead Weight kg	130	Climb Performance ("")	> 10
Fuel Capacity kg	140	Engine Model	YY1P57QMJ
Crankcase Capacity L	1.2	Engine Style	Single Cylinder/ Forced Air/4 Stroke
Fuel Octane	90	Stroke & Bore	57.4 x 57.8
Engine Oil	Four Stroke/ SAE10W-30 (SIGMA)	Engine Volume cc	149.50
Deceleration Ratio	I. 2.800 II. 3.076	Compression Ratio	9.2 : 1
Maximum Speed km/h	> 85	Maximum Power kW/rpm	7.0 / 7500
		Maximum Torque Nm/rpm	8.5 / 4000

1 Liter = 1.0566882 US Quarts = .2642 US Gallons
1 MM = .0394 Inches 1 Inch = 25.4 MM
1 Kg = 2.2046 Pounds 1 Pound = .4535924 Kg
1 Km = .6214 Miles 1 Mile = 1.609344 Km
1 M = 3.2808398 Feet 1 Foot = .3048 M
1 CC = .06102374 CI 1 Cubic Inch = 16.387064 CC

Scooter Operations

Electrical Diagram

