



V1.02

## OWNER'S MANUAL

# OWNER'S MANUAL

### 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.

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## 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.

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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 few that we consider most important.

#### Always Wear Protective Gear

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

#### 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

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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



1. R and L rear mirror
2. R and L brake
3. Front storage compartment
4. speedometer
5. Main switch
6. Battery



7. Air cleaner
8. Seat lock
9. Rear light assembly
10. L and R rear turn light
11. Fuel tank
12. Center stand
13. Kick starter
14. Side stand
15. Muffler
16. L and R front turn light
17. Head lights
18. Rear reflector
19. License plate

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## Instrument panel

### Speedometer

Riding speed is indicated by km/h and mph.

### Odometer

The total riding distanced km and miles

The black figures in blue background indicate total miles traveled.

### Indicating lamp of turning light /

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

It indicates high beam is in use.

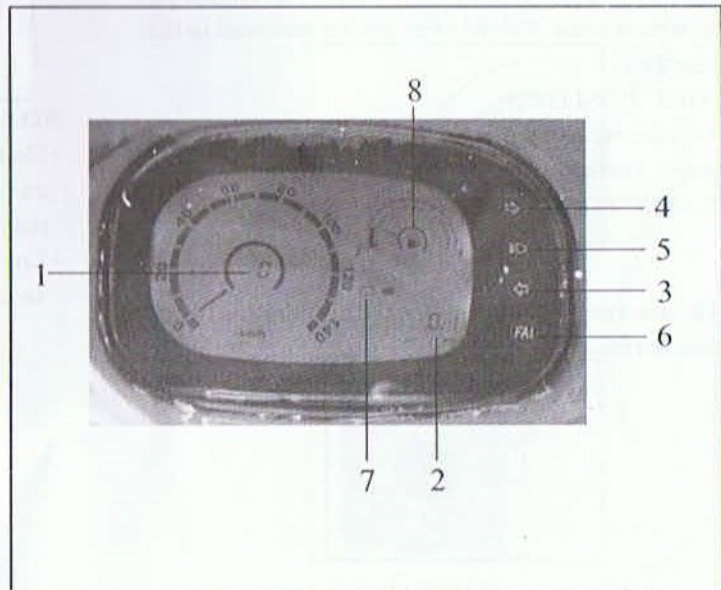


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## NOTE:

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

1. Speedometer
2. Odometer
3. Left turn signal indicator
4. Right turn signal indicator
5. High beam indicator
6. Fault signal indicator
7. Battery gauge
8. Fuel gauge



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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.



Main Switch



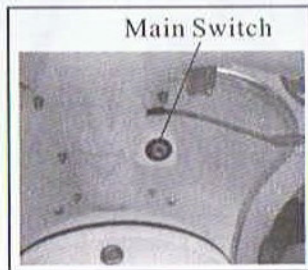
#### NOTE:

- 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.

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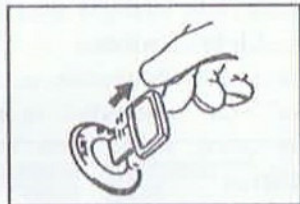
## Steering Lock

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

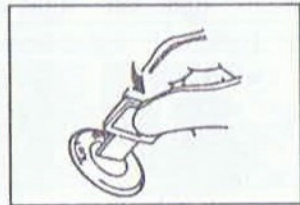


Push the key in when it's in OFF position

Release the key



Turn to LOCK position



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## Handlebar Switches

### 1. Dimmer Switch

When light switch is the " On" position:

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

### 2. Turning Light Switch

To use the turning light white making a turn or changing traffic lane, press "↷" the switch to signal a right turn. press "↶" the switch to signal a left turn. The turning light does not go off automatically. To cancel the turning signal, press the opposite switch back to center position.

### 3. Horn Button

The horn sounds by pressing the horn button

### 4. Light switch

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

### 5. Starter Switch

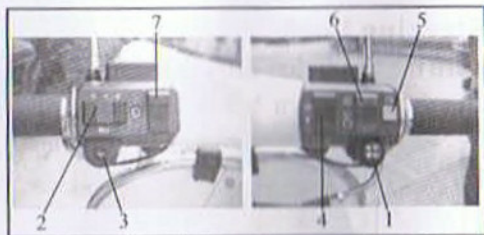
Apply this switch when using electric start

### 6. Engine is off ☒

Engine is on ☐

### 7. Emergency switch ▲

Switch to constantly flash front and rear turning light



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## NOTE:

- 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, then push to open return the seat to its original position and press down to lock up. Pull up on the seat slightly to ensure it is fully locked.

## 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.

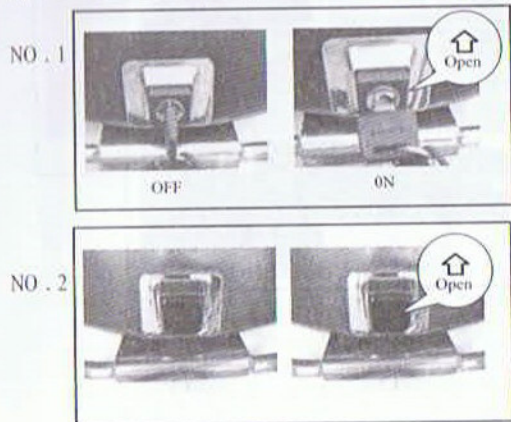
## Fuel Tank Cap:

open: ① → ② → ③

Insert the key, turn clockwise to open the access panel pull up the cap directly

## Close:

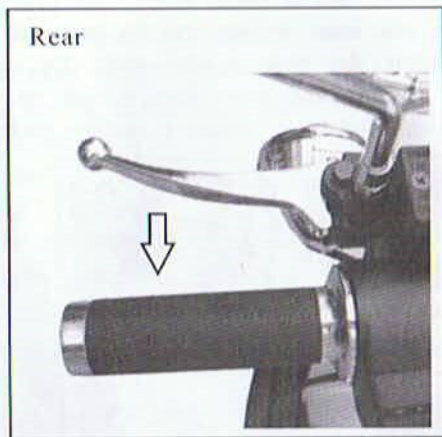
Press the fuel tank cap to close. press down till one click heard, remove the key.



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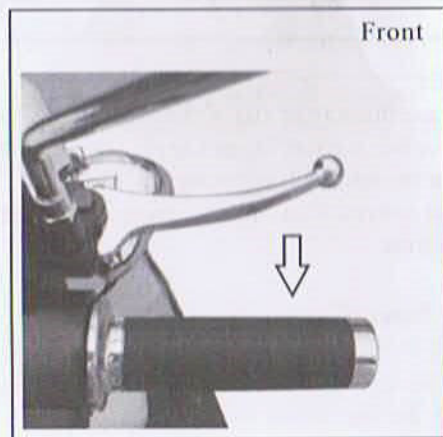
## Rear Brake Lever

The rear brake lever is located on the 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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## Front Storage Compartment

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

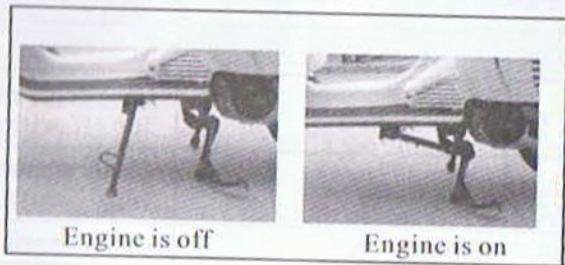


### NOTE:

- The maximum loading capacity of front storage compartment is 1.5 kg.

## Side stand kill switch (EEC model)

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.



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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 worth more than the time involved.

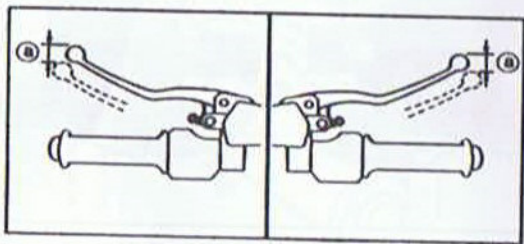
Before using this scooter, check the following points:

NO	ITEM	ROUTINE	PAGE
1	Front Brake	Check operation, freeplay, fluid level and fluid leakage. Top off with DOT3 brake fluid if necessary.	17, 18
2	Rear Brake	Check operation, freeplay, fluid level and fluid leakage. Top off with DOT3 brake fluid if necessary.	17, 18
3	Throttle	Check for smooth operation. Adjust if necessary	19
4	Engine Oil	Check engine oil level, add oil if necessary.	19
5	Tires/Wheels	Check tire pressure, wear and damage.	20, 21
6	Fittings/Fasteners	Check all chassis fittings and fasteners. Tighten/adjust if necessary.	22
7	Lights/Signals/Switches	Check operation.	22
8	Fuel	Check fuel oil level, add oil if necessary.	23

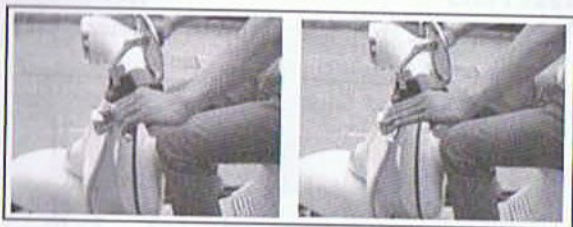


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## Brakes



a. Free play 10-20mm



### 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:

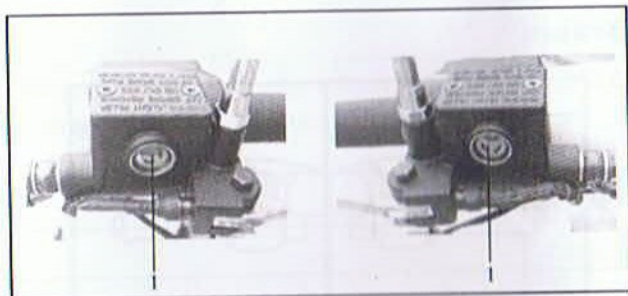
A soft, spongy feel in the brake lever indicates a failure in the brake system. Do not operate the scooter until the failure in the brake system has been corrected. Ask a dealer for immediate repairs.

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## Brake Fluid

Check the brake fluid level. Add fluid if necessary.

**Recommend brake fluid: DOT3**



1. Minimum level

## Brake Fluid Leakage

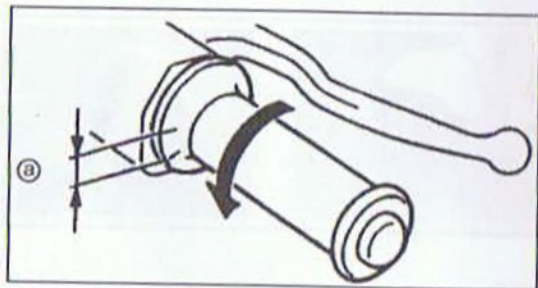
Apply the brake a few times. Check to see if any brake fluid leaks out from the pipe joints or the master cylinder.

### 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.

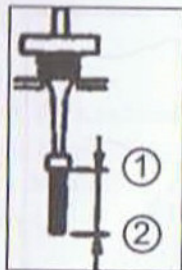
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## Throttle Grip



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.

## Engine Oil



1. Maximum level.

2. Minimum level.

1. Dipstick

a. Maximum level.

b. Minimum level.

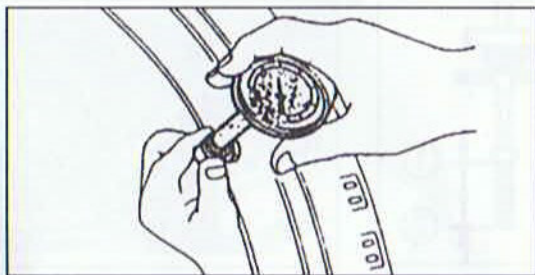
Make sure the engine oil is at the specified level. Fill with oil if necessary. (See page 26, 27 for details).

### **Recommended Engine Oil:**

Four stroke engine oil SAE 15W 40 SF.

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

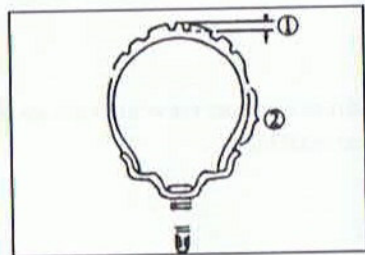
## Tire Inspection

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

Minimum Tire Tread Depth:

**Front:** 1.5mm

**Rear:** 2.0mm



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## **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 comfortably on the scooter, you have the best view of rear traffic.

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## Fuel

Recommended Fuel:

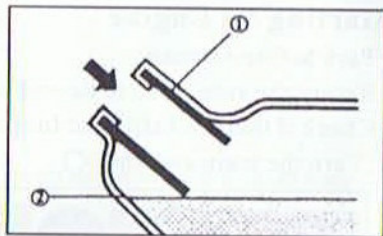
90 octanes or higher unleaded gasoline.

Fuel Tank Capacity:

Total 1.53 gallons.

### 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.




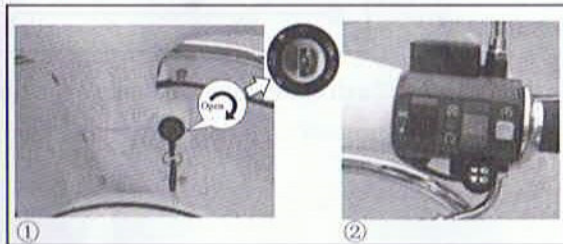
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## OPERATION

### Starting 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 

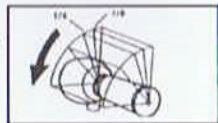


2. Check to see that engine kill switch is in “” position.
3. Completely release the throttle grip, apply rear brake lever.
4. Push the starter switch. Do not touch the starter switch again once the engine has started.



### 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 twist throttle grip and apply kick starter to crank the engine.





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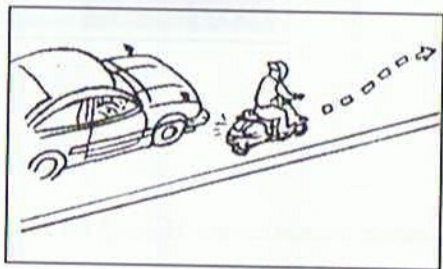
5. For a cold vehicle, preheat the engine for 1-3 minutes before riding.

## 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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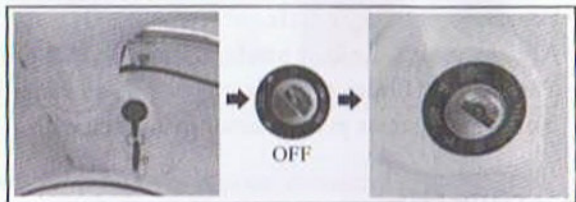
## Acceleration

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.



## 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.



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## Engine Break-in Period

There is never a more important period in the life of your scooter than the period between zero and 1,500 kms (900miles). 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 1,500 kms(900miles). The various parts in a new engine wear and polish the 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.

See the following for details:

1. 0-500 kms(0-300miles):  
Keep the speed below 50 km/h(30mph).
2. 500-800 kms(300-480miles):  
Keep the speed below 70 km/h(42mph).
3. 800-1,500 kms(480-900miles):  
Keep the speed below 85 km/h(51mph).

### NOTE:

- After 1,500 kms 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 CHART

ITEM	RIDING DISTANCE(km/mile)													Daily Checks
	100/180	1000/600	2000/1200	3000/1800	4000/2400	5000/3000	6000/3600	7000/4200	8000/4800	9000/5400	10000/6000	11000/6600	12000/7200	
Engine oil	R	R	R	R	R	R	R	R	R	R	R	R	R	I
Engine oil Strainer Mesh	C	C			C				C				C	
Gear oil	R			R			R			R			R	
Spark Plug	Clean at every 2000km(1200miles), replace every 10000km(6000miles)													
Valve Clearance		A			A				A					A
Cam Chain		A			A				A					A
Fueling Injectin syster					I				I					I
Air Cleaner	Clean the element at every 2000km(1200mils )and replace at every 5000km(3000miles)													
Electrolyte of Battery		I	I	I	I	I	I	I	I	I	I	I	I	I
Fuel Strainer Mesh	Clean at every 1000km(600miles), replace if necessary.													
Brake System		I	I	I	I	I	I	I	I	I	I	I	I	I
Drive Belt	Replace every 10000km(6000miles)													
Screws and Nuts of Each part	T					T								
Concentration of Waste Gas	Regularly check and adjust.													
Follow on the analogy of the distance intervals listed above if distance exceeds the listed number.														
If often ridden in dusty area, element of air cleaner should be cleaned replaced more frequently.														

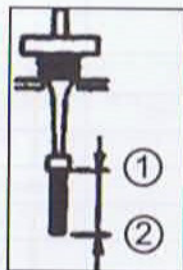
I: Check, clean, lubricate, adjust of replace if necessary A: Adjust C: Clean R: Replace T: Tighten

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## 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.



1. Maximum level

2. Minimum 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.

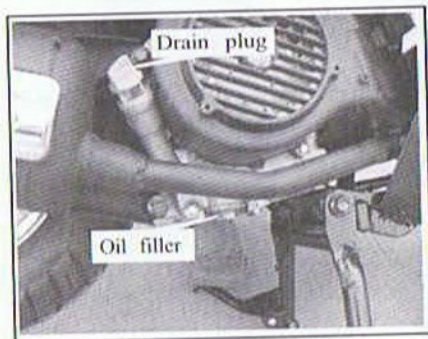


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2. Engine oil replacement, Replace engine oil after the initial 300 kms(180miles). Thereafter, replace engine oil every 1,000 kms(600miles). Check the oil level every day before using. Add oil to specified level if necessary.
3. Start the engine and 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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## **Gear Oil Replacement**

Replace the gear oil after the initial 300 kms(180miles). Thereafter, replace oil again every 4 months or 3000 kms(1800miles), whichever occurs first.

### **Do As Below Described For Replacement:**

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

**Recommended oil:** SAE 85W 90SF

### **NOTE:**

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



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## 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.

1. Place the scooter on the center stand.
2. Remove the left side panel by removing the screws on it.
3. Remove the air filter cover by removing screws on it.
4. Take out the air filter and remove the screws on it.
5. Remove the air filter element and wash gently, but thoroughly in solvent. Replace air filter if it is damaged.
6. Squeeze out excess solvent, and dry the air filter.
7. Reinstall the air filter and t

### NOTE:

- Drain the oil accumulated in the clear tube after every 1,000 kms.



# OWNER'S MANUAL

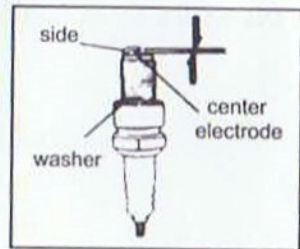
## Spark Plug Inspection

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 proper 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.

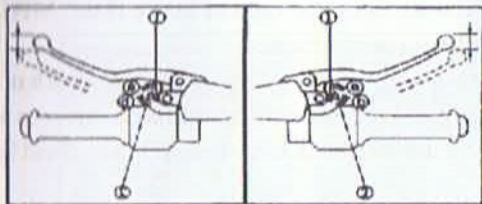


# OWNER'S MANUAL

## Brake Lever Free Play Adjustment

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.



## 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:

1. When checking the brake fluid level, make sure the top of the master cylinder is leveled.
2. Use only the designated brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor brake performance. **Recommended Brake Fluid:** DOT3.

# OWNER'S MANUAL

3. Refill with the same type of brake fluid. Mixing fluid may result in a harmful chemical reaction and lead to poor brake performance.
4. Be careful that water does not enter, which may result in vapor lock.
5. Brake fluid may deteriorate painted surfaces and plastic parts. Always clean up the spilled fluid immediately.
6. Have a dealer check the cause if brake fluid level goes down.

## **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.
  - a. Replace all rubber seals every two years.
  - b. Replace all hoses every four years.

## **Brake Lever Lubrication**

Lubricate the pivoting parts of both brake levers.

### **Recommended lubricant:**

SAE: 10W40 motor oil.



# OWNER'S MANUAL

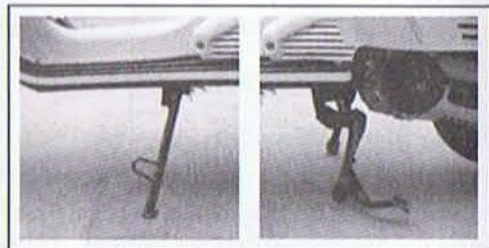
## Center and Side Stand Lubrication

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.

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

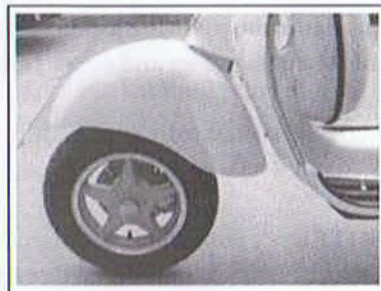
# OWNER'S MANUAL

## NOTE:

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

## Steering Inspection

Periodically inspect the condition of the steering. Worn out or loose steering bearings may be dangerous. Place a stand under the engine to raise the front wheel off the ground. Hold the lower end of the front forks and try to move them forward and backward. If any free play can be felt, ask a dealer to inspect and adjust the steering. Inspection is easier if the front wheel is removed.



## NOTE:

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

## Wheel Bearings

If there is play in the front or rear wheel hub or if the wheel does not turn smoothly, have a dealer inspect the wheel bearings.

# OWNER'S MANUAL

## Battery

This scooter uses sealed and non-replenishable type battery. It is unnecessary to check and add liquid.

### NOTE:

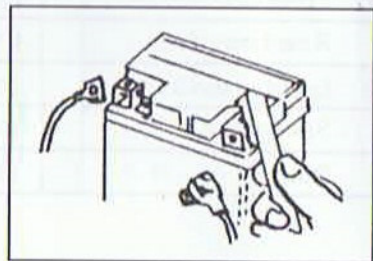
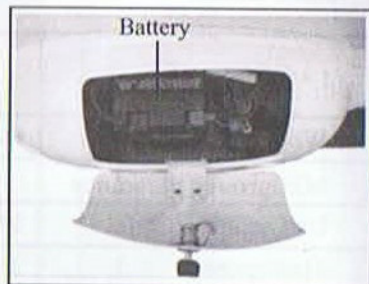
- The battery will lose its charge if the scooter is not operated for an extended period of time. Remove the battery from the scooter and charge it fully when not in use. Store it in a place with adequate ventilation.

### Battery Joint:

1. Remove the battery before cleaning the joint of it.
2. Clean the joint first, then apply a thin coat of vasoline on it. Reinstall the battery.

### NOTE:

- Avoid nearby live fire when removing or installing the battery.
- When removing the battery, turn off the main switch, remove the negative pole wire first, then the positive pole wire. Change the order when reinstalling (positive wire first, then negative wire).



# OWNER'S MANUAL

50cc-25km

## MAJOR TECHNICAL PARAMETERS

L×W×H		Engine type	Single cylinder, four stroke,air cooled
Wheel base	1860×760×1110mm	Engine Displacement	49.5cc
Min.ground clearance	1380mm	Compression ratio	10.5:1
Dry weight	200 lb	Idling speed	1900±190rpm
Max speed	25km/h	Max power	2.2kw/8000±500rpm
Front tire	3.5-10	Max torque	3N. m/6000±500
Rear tire	3.5-10	Fuel tank capacity	1.5gallons
Ignition mode	CDI	Fuel grade	>93#
Spark plug	CR7HSA	Recommended engine oil	SAE 15E40SF
Battery	12V7A • h	Engine oil capacity	0.8L



# OWNER'S MANUAL

50cc-45km

## MAJOR TECHNICAL PARAMETERS

L×W×H		Engine type	Single cylinder, four stroke,air cooled
Wheel base	1860×760×1110mm	Engine Displacement	49.5cc
Min.ground clearance	1380mm	Compression ratio	10.5:1
Dry weight	200 lb	Idling speed	1900±190rpm
Max speed	45km/h	Max power	2.2kw/8000±500rpm
Front tire	3.5-10	Max torque	3N.m/6000±500
Rear tire	3.5-10	Fuel tank capacity	1.5gallons
Ignition mode	CDI	Fuel grade	>93#
Spark plug	CR7HSA	Recommended engine oil	SAE 15E40SF
Battery	12V7A • h	Engine oil capacity	0.8L

# OWNER'S MANUAL

125cc

## MAJOR TECHNICAL PARAMETERS

L×W×H		Engine type	Single cylinder, four stroke,air cooled
Wheel base	1860×760×1110mm	Engine Displacement	124.6cc
Min.ground clearance	1380mm	Compression ratio	9.2:1
Dry weight	216 lb	Idling speed	1600±150rpm
Max speed	80km/h	Max power	5.2kw/7000±500rpm
Front tire	3.5-10	Max torque	7.3N.m/6000±500
Rear tire	3.5-10	Fuel tank capacity	1.5gallons
Ignition mode	ECU/CDI	Fuel grade	>93#
Spark plug	CR7HSA	Recommended engine oil	SAE 15E40SF
Battery	12V7A • h	Engine oil capacity	0.9L

# OWNER'S MANUAL

150cc

## MAJOR TECHNICAL PARAMETERS

L×W×H		Engine type	Single cylinder, four stroke,air cooled
Wheel base	1860×760×1110mm	Engine Displacement	149.5cc
Min.ground clearance	1380mm	Compression ratio	9.5:1
Dry weight	216 lb	Idling speed	1600±150rpm
Max speed	85km/h	Max power	6kw/7000±500rpm
Front tire	3.5-10	Max torque	9.3N.m/6000±500
Rear tire	3.5-10	Fuel tank capacity	1.5gallons
Ignition mode	CDI	Fuel grade	>93#
Spark plug	CR7HSA	Recommended engine oil	SAE 15E40SF
Battery	12V7A • h	Engine oil capacity	0.9L

# OWNER'S MANUAL

151cc

## MAJOR TECHNICAL PARAMETERS

L×W×H		Engine type	Single cylinder, four stroke,air cooled
Wheel base	1860×760×1110mm	Engine Displacement	152.2cc
Min. ground clearance	1380mm	Compression ratio	9.5:1
Dry weight	216 lb	Idling speed	1600±150rpm
Max speed	85km/h	Max power	6kw/7000±500rpm
Front tire	3.5-10	Max torque	9.3N.m/6000±500
Rear tire	3.5-10	Fuel tank capacity	1.5gallons
Ignition mode	ECU	Fuel grade	>93#
Spark plug	CR7HSA	Recommended engine oil	SAE 15E40SF
Battery	12V7A • h	Engine oil capacity	0.9L

# OWNER'S MANUAL

MAINTENANCE RECORDS \*This scooter's traveled mileage is Kilometers. \*

Times	Date	Mileage(km/mile)	Items Maintained	Dealer
1	M D Y	300/180	Gear oil	
2	M D Y	1000/600	Gear oil	
3	M D Y	2000/1200	Gear oil	
4	M D Y	<del>3000</del> /1800	Gear oil	
5	M D Y	4000/2400	Gear oil	
6	M D Y	5000/3000	Gear oil	
7	M D Y	6000/3600	Gear oil	
8	M D Y	7000/4200	Gear oil	
9	M D Y	8000/4800	Gear oil	
10	M D Y	9000/5400	Gear oil	
11	M D Y	10000/6000	Gear oil / Belt / spark plug / Air filter	

# OWNER'S MANUAL

## **JIALING WARRANTY**

### **Warranty Registration**

Within 7 days dealer must register product warranty after a vehicle is sold. JIALING will keep records of all the registration forms for the warranty policy on all the units.

**No warranty claim will be processed unless the product warranty is registered with JIALING.**

### **Vehicle Owner's Responsibilities**

Vehicle's owner must properly use, maintain and care for the vehicle as outlined in the JIALING owner's manual.

Owner of the unit must service and maintain the vehicle according to the Service Schedule and Record Sheet in order to maintain the warranty.\*

Any warranty repairs must be performed **ONLY** by authorized JIALING dealers.

Any warranty work done by an unauthorized JIALING dealer will not be covered under the warranty policy.

Periodic services and inspections can be performed by authorized JIALING dealer or any reputable cycle repair shop.

\*Periodic service and inspections are considered regular maintenance and not reimbursable.

### **Authorized JIALING Dealer's Responsibilities**

Warranty repairs will be made at no charge and labor to the consumer or the dealer

Any replacement parts will be replaced with new parts

# OWNER'S MANUAL

## Motorcycle / Scooter:

Covered Parts	Description	Covered Period
Motor	Engine&Transmission	1 Years (Unlimited Miles)
Mechanical Components	Carburetor	1 Years (Unlimited Miles)
Electrical	Harness, CDI, Inst. Cluster	1 Years (Unlimited Miles)
Battery(when purchased with new unit)	Battery	30Days (Unlimited Miles)
Suspension	Shocks, Forks	1Year (Unlimited Miles)
Brake	Caliper	1 Years (Unlimited Miles)
Exhaust	Header pipe, Muffler	1 Years (Unlimited Miles)
Pulleys	Moveable Gearshift Pulley	90Days (Unlimited Miles)
Clutch	CVT/Manual Clutch	90Days (Unlimited Miles)

# OWNER'S MANUAL

Warranty terms and rights may vary from state to state.

Any implied warranty of merchantability and fitness for a particular purpose shall be limited to the duration of this written warranty

## Limited warranty

All new JIALING motorcycles and scooters covered with 1 year limited warranty. Only JIALING authorized dealers can submit warranty claim not consumers. The warranty registration needs to be on file with JIALING before a warranty claim can be processed, unless the claim is due to shipping or crate damage and the unit has not yet been sold.

Initial dealer pre-delivery inspections and set up of the product are very important in ensuring trouble free operation.

**SELLING A UNIT IN THE CRATE OR WITHOUT THE PROPER SET UP WILL VOID ALL WARRANTY COVERAGE ! THIS IS WILL NOT BE ELIGIBLE FOR JIALING ROADSIDE ASSISTANCE EITHER !**

Warranty starts from date of purchase by the consumer from their JIALING dealer for all JIALING products. During the warranty policy period, JIALING will only cover all warranty parts and labor. The dealer is required to order parts for all warranty work to be performed and once the work is completed, the dealer should submit a warranty claim for full labor reimbursement within 7 days. The following parts are covered under warranty, along with their warranted period:



# OWNER'S MANUAL

## Parts Not Covered Under Warranty:

Spark Plugs	Throttle Cable, Idle Cable	Brake Line Cable, Clutch Cable
Drive Chains, Drive Belts	Air Cleaner's Element&Bracket	Rear Brake Shoes
Front/Rear Brake Pads	Swing Arm Bushing	Light Bulbs
Fuses	Rubber Parts	Front/Rear Tires&Tubes
Front/Rear Rims	Gear/Engine Oil	Front/Rear Brake Rotors
Brake/Clutch Levers	Steering Stem Bearings	Floor Boards/Pegs
Oil/Fuel Filters	Grips	Motor Mount Bushing

### **Any damage which results from the following are not covered by warranty:**

Unavoidable natural disasters, fire, collision, theft, improper storage or transportation, negligence of the periodic maintenance is not covered, improper repair or adjustment or maintenance, using product as a rental vehicle or commercial use, unauthorized modification made to the product, keeping riding when the vehicle is overheating, installing performance parts or components on the vehicle that changes the original engineering.

# OWNER'S MANUAL

## Mal-function Codes and Corresponding Trouble-shooting Guidance

Mal-function Code	Flashing Code	Malfunction Description	Trouble-shooting Guidance
P0106	91	Map Rationality	1. Check vacuum pipe line leakage (manifold, intake-tube, vacuum pipes, intake/exhaust valves, etc.) 2. Connect diagnostic tool, key on, and check atmospheric pressure (normal atmospheric pressure ranges from 98 to 102kPa)
P0107	92	Map Open/GND	1. Connect Diagnostic tool, key on, and check atmospheric pressure (normal atmospheric pressure ranges from 98 to 102kPa)
P0108	93	Map Short V	1. Connect Diagnostic tool, key on, and check atmospheric pressure (normal atmospheric pressure ranges from 98 to 102kPa)
P0112	94	IAT Short GND	1. Check IAT sensor resistance (2~3.5k $\Omega$ @ 25 $^{\circ}$ C) 2. Check if IAT sensor & cable grounded? (ECU P20) -
P0113	95	IAT Short V/Open	1. Check IAT sensor resistance (2~3.5k $\Omega$ @ 25 $^{\circ}$ C) 2. Check if IAT sensor & cable grounded? (ECU P20) -
P0117	96	Toil Short GND	1. Check CLT sensor resistance (6.5~12.5k $\Omega$ @25 $^{\circ}$ C) + 2. Check if CLT sensor & cable grounded? (ECU P22)
P0118	97	Toil Short V/Open	1. Check CLT sensor resistance (6.5~12.5k $\Omega$ @25 $^{\circ}$ C) - 2. Check if CLT sensor & cable grounded? (ECU P22)
P0563	98	Battery voltage high	1. Check if battery voltage too high? (over 16V) 2. Check if battery terminal connection normal? 3. Check if battery normal? 4. Check if voltage regulator normal?

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P0122	12	TPS Open/GND	<ol style="list-style-type: none"> <li>1. Check if TPS sensor normal?</li> <li>2. Check if TPS sensor &amp; cable opened / grounded? (ECU P21)</li> </ol>
P0123	13	TPS Short V	<ol style="list-style-type: none"> <li>1. Check if TPS sensor normal?</li> <li>2. Check if TPS sensor &amp; cable shorted? (ECU P21)</li> </ol>
P0131	14	O2 Short GND	<ol style="list-style-type: none"> <li>1. Check if O2 sensor normal?</li> <li>2. Check if O2 sensor &amp; cable grounded? (ECU P23)</li> </ol>
P0132	15	O2 Short V	<ol style="list-style-type: none"> <li>1. Check if O2 sensor normal?</li> <li>2. Check if O2 sensor &amp; cable shorted? (ECU P23)</li> </ol>
P0134	16	O2 NO Response	<ol style="list-style-type: none"> <li>1. Check if O2 sensor normal?</li> <li>2. Check if O2 sensor &amp; cable opened? (ECU P23)</li> </ol>
P0231	17	Pump Open/GND	<ol style="list-style-type: none"> <li>1. Check if fuel pump normal?</li> <li>2. Check if fuel pump &amp; cable opened / grounded? (ECU P1)</li> </ol>
P0232	18	Pump Short V	<ol style="list-style-type: none"> <li>1. Check if fuel pump normal?</li> <li>2. Check if fuel pump &amp; cable shorted? (ECU P1)</li> </ol>
P0601	19	EEPROM Error	1. Key on and key off, read malfunction code again. Change ECU if malfunction code can not be eliminated.
P0261	21	Inj Open/GND	<ol style="list-style-type: none"> <li>1. Check if injector normal?</li> <li>2. Check if injector &amp; cable grounded? (ECU P28)</li> </ol>
P0262	23	Inj Short V	<ol style="list-style-type: none"> <li>1. Check if injector normal?</li> <li>2. Check if injector &amp; cable shorted? (ECU P28)</li> </ol>
P1351	24	Cyl1 Ign Short GND	<ol style="list-style-type: none"> <li>1. Check if ignition coil normal?</li> <li>2. Check if ignition coil &amp; cable grounded? (ECU P27)</li> <li>3. Check if batter power supply normal?</li> </ol>
P0351	25	Cyl1 Ign Short V	<ol style="list-style-type: none"> <li>1. Check if ignition coil normal?</li> <li>2. Check if ignition coil &amp; cable shorted? (ECU P27)</li> <li>3. Check if batter power supply normal?</li> </ol>

# OWNER'S MANUAL

P1650	26	MIL Open/GND	1. Check if MIL cable opened / grounded? (ECU P14) 2. Check if the MIL bulb normal?
P0650	27	MIL Short V	1. Check if MIL cable shorted? (ECU P14) 2. Check if the MIL bulb normal?
P1654	28	TACO Open/GND	1. Check if Tachometer opened / grounded? (ECU P15) 2. Check if Tachometer & cable normal?
P0654	29	TACO Short V	1. Check if Tachometer shorted? (ECU P15) 2. Check if Tachometer & cable normal?
P0335	38	Crank Sensor Missynchronous	1. Check Crank sensor & cable normal? 2. Replace a Crank sensor and check if the malfunction code eliminated? Replace an ECU if the malfunction code not eliminated.
P1335	49	Crank sensor open	1. Check if Crank sensor & cable opened? 2. Replace a Crank sensor and check if the malfunction code eliminated?
P0135	51	O2 Heater Short V	1. Check O2 sensor resistance (7.5-13.5k $\Omega$ @ 25 $^{\circ}$ C) 2. Check if O2 sensor & cable shorted? (ECU P10)
P1135	52	O2 Heater Short Open/GND	1. Check O2 sensor resistance (7.5-13.5k $\Omega$ @ 25 $^{\circ}$ C) 2. Check if O2 sensor & cable opened / grounded? (ECU P10)

# OWNER'S MANUAL

## EFI System Components Malfunction Check and Component Replacement Procedure

No	Part Name	Maintenance Frequency	Checking Procedure	Replacement / Adjustment Procedure
1	Ignition Coil	Min. life cycle 20,000km Check per 3,000km	<ol style="list-style-type: none"> <li>1. Check if there is malfunction code of ignition coil</li> <li>2. Check coil resistance and connector connection</li> <li>3. Clear malfunction code, replace a new coil, read malfunction code again</li> <li>4. If malfunction code exist, replace an ECU to check if the malfunction code will disappear, if yes, then change ECU</li> </ol>	<ol style="list-style-type: none"> <li>1. Clear malfunction code before replacing coil</li> <li>2. Key off, replace new coil</li> <li>3. Key on, confirm malfunction code is clear</li> </ol>
2	Fuel Pump & Pressure Regulator	Min. life cycle 20,000km Check fuel pressure per 6,000km	<ol style="list-style-type: none"> <li>1. Install a pressure gauge between regulator and injector</li> <li>2. Check if fuel pressure reaches 300kPa in 3 seconds after power on</li> <li>3. Check fuel line leakage if fuel pressure out of spec.</li> <li>4. Check if fuel pump voltage higher than 12V</li> <li>5. Confirm by replacing a regulator</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace O-ring together when replacing regulator</li> </ol>
3	CLT Sensor	Min. life cycle 20,000km Check per 3,000km	<ol style="list-style-type: none"> <li>1. Check if there is malfunction code of CLT sensor</li> <li>2. CLT temperature reading shall be close to room temperature after engine soaking a period of time</li> <li>3. Clear malfunction code, replace a new sensor and check again, if the code disappeared then the sensor needs to be replaced</li> <li>4. If malfunction code still exist, check harness connector and sensor resistance</li> <li>5. If malfunction code still exist, replace an ECU to check if the malfunction code will disappear, if yes, then change ECU</li> </ol>	<ol style="list-style-type: none"> <li>1. Clear malfunction code before replacing sensor</li> <li>2. Key off, disconnect the connector</li> <li>3. Replace new sensor</li> <li>4. Re-connect the connector, key on and confirm the malfunction code disappeared</li> <li>5. Check if CLT temperature reading close to room temperature</li> </ol>
4	IAT Sensor	Min. life cycle 20,000km Check per 3,000km	<ol style="list-style-type: none"> <li>1. Check if there is mal-function code of IAT sensor</li> <li>2. IAT temperature reading shall be close to room temperature after engine soaking a period of time</li> <li>3. Clear malfunction code, replace a new sensor and check again, if the code disappeared then the sensor needs to be replaced</li> <li>4. If malfunction code still exist, check harness connector and sensor resistance</li> <li>5. If malfunction code still exist, replace an ECU to check if the malfunction code will disappear, if yes, then change ECU</li> </ol>	<ol style="list-style-type: none"> <li>1. Clear malfunction code before replacing sensor</li> <li>2. Key off, disconnect the connector</li> <li>3. Replace new sensor</li> <li>4. Re-connect the connector, key on and confirm the mal-function code disappeared</li> <li>5. Check if CLT temperature reading close to room temperature</li> </ol>

# OWNER'S MANUAL

5	TPS Sensor	Min. life cycle 20,000km Check per 3,000km	<ol style="list-style-type: none"> <li>1. Check if there is mal-function code of TPS sensor</li> <li>2. Clear malfunction code, replace a new sensor and check again, if the code disappeared then the sensor needs to be replaced</li> <li>3. If malfunction code still exist, check harness connector and sensor resistance</li> <li>4. If malfunction code still exist, replace an ECU to check if the malfunction code will disappear, if yes, then change ECU</li> </ol>	<ol style="list-style-type: none"> <li>1. Clear malfunction code before replacing sensor</li> <li>2. Key off, disconnect the connector</li> <li>3. Replace new sensor</li> <li>4. Re-connect the connector, key on and confirm the malfunction code disappeared</li> <li>5. Check TB leakage after replacing TPS sensor</li> </ol>
6	Injector	Min. life cycle 20,000km Check per 3,000km	<ol style="list-style-type: none"> <li>1. Check if there is malfunction code of injector</li> <li>2. Clear malfunction code, replace a new injector and check again, if the code disappeared then the injector needs to be replaced</li> <li>3. If malfunction code still exist, check harness connector</li> <li>4. If malfunction code still exist, replace an ECU to check if the malfunction code will disappear, if yes, then change ECU</li> </ol>	<ol style="list-style-type: none"> <li>1. Clear malfunction code before replacing injector</li> <li>2. Key off, disconnect the connector</li> <li>3. Replace new injector</li> <li>4. Re-connect the connector, key on and confirm the malfunction code disappeared</li> <li>5. Check leakage after replacing injector</li> </ol>
7	Idle Speed Adjust	Check new vehicle and per 3,000km	<ol style="list-style-type: none"> <li>1. Warm up the vehicle with 50km/hr for over 5 min.</li> <li>2. Read idle speed (rpm) from diagnostic tool</li> </ol>	<ol style="list-style-type: none"> <li>1. Warm up the vehicle with 50km/hr for over 5 min.</li> <li>2. Connect diagnostic tool, read idle speed and confirm engine in idle mode</li> <li>3. Confirm no CLT and IAT mal-function codes</li> <li>4. Confirm spark angle, CLC learning value within spec.</li> <li>5. Confirm CLT and IAT temperatures within idle adjustment range</li> <li>6. Turn the adjustment screw to the idle speed range within <math>\pm 100</math>rpm</li> <li>7. The close loop system will automatically correct CO value after idle adjustment</li> </ol>