

Dear Customers :

Thank you for purchasing a **Genuine Scooter Company** scooter. The efficiency and longevity of each scooter will depend heavily on the operating method of each user. This owner's manual will provide you with operating instructions, precautions, and general maintenance information required to safely operate and maintain your scooter. Please read the entire manual before operating your scooter. Please be aware of your scooter's engine size and configuration (2-stroke or 4-stroke) while reading this manual. If you have any questions, please ask your dealer for assistance.

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Check List before Delivery

Name : Tel : Age : Sex :

Address :

Model :	Engine No :	VIN No :
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Delivery date : Year Month day Dealer :

NO	Check Item	Y	N	NO	Check Item	Y	N
1	Steering of Handle Bar			8	Confirm Engine No & Document		
2	Gap of Brake Lever			9	Owner's Manual		
3	Lights and Horn			10	Operating Method Introduction		
4	Fuel Tank and Fuel Kind			11	Periodic Maintenance introduction		
5	Engine Oil			12	Warranty Introduction		
6	Disk Brake fluid						
7	Tire Pressure						
Staff Signature :				Customer Signature :			

Suggestion :

※Please Sign both customer & service Staff.

✱ Mail this chart to agent, and then the Warranty will be effective.



PGO Warranty Card

Name			Telephone	Registration date
Address				
Model	☐ PM-NAKED ☐ PMS ☐ PMX	Displacement ☐ 50 CC ☐ 110 CC	Engine NO.	VIN.No.

Customer Signature

Dealer Signature

SCOOTER SAFETY

▲WARNING

.Scooter riding requires special afford on your part to ensure your safety.

Know these requirements before you ride:

SAFE RIDING RULES

1. Always make a pre-ride inspection(page 19) and perform any needed adjustments or repairs before you ride the scooter.
2. Many accidents involve inexperienced riders. Most countries require a special scooter riding test or license.

Make sure you are qualified before your ride.

NEVER lend your scooter to an inexperienced rider.

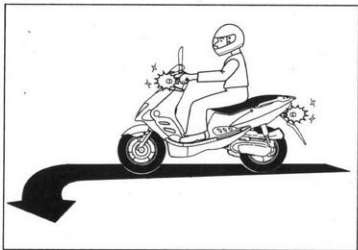
3. Many automobile/scooter accidents happen because the automobile driver does not "see" the motorcyclist.

Make yourself conspicuous to help avoid the accident that wasn't your fault:

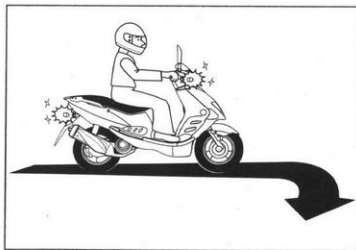
- Wear bright or reflective clothing.
- Don't ride in another motorist's "blind spot"

4. Obey all national and local laws and regulations.

- Excessive speed is a factor in many accidents. Obey the speed limits, and NEVER travel faster than conditions warrant.
- Signal before your make a turn or lane change. Your size and maneuverability can surprise other motorists.



LEFT TURN



RIGHT TURN

5. Don't let other motorists surprise you. Use extra caution at intersections , parking lot entrances and exits, and driveways.
6. Keep both hands on the handlebars and both feet on the floorboards while riding. A passenger should hold on to the scooter or the feet on then passenger foot pegs.
7. Never leave your scooter unattended with the engine running.
8. Moderate your speed when ridding over bumpy roads. Avoid hitting road hazards, such as sharp bumps and holes, in the road surface. These hazards can cause loss of control or structural damage to the vehicle.

PARTS NAME for PM model:



Remarks: The necessary equipments shall according to actual vehicle. Above items are only for function description.

PARTS NAME for PM-50/110DN (NAKED) model:



Remarks: The accessory equipments shall according to actual vehicle. Above items are only for function description.

IDENTIFICATION

1. Recognize your vehicle model according to license document or manufacturing document.
2. This manual includes 5 kinds of engine models:
 - PMS-50: abbreviated as “PM-50” is 2 stroke (2T) / 50 C.C engine..
 - PMS-110: abbreviated as “PM-110” is 2 stroke(2T) / 110cc engine.
 - PMX-50: abbreviated as “PM-50” is 2 stroke (2T) / 50 C.C engine.
 - PMX-110: abbreviated as “PM-110” is 2 stroke(2T) / 110cc engine.
 - PM-50 NAKED: abbreviated as “PMS-50DN” is 2 stroke (2T) / 50 C.C engine.
 - PM-110 NAKED: abbreviated as “PMS-110DN” is 2 stroke (2T) / 110 C.C engine.
3. Because this manual is suitable for all PM* serial models, there are many different operations between every model. Once you see a model indication bar appears above the page, for example:



The “ **PMS-50DN** ” model button lights on, and the lower bar is filled, that means this page is suitable for “ **PMS-50DN** ”.



IDENTIFICATION

2.Engine No. is located (stamped) on the rear side of the left crankcase.



NOTE:

The upper row is model type, the lower row is the production serial numbers.

Your dealer need this number for ordering the parts, please write down the engine no. for their reference.



IDENTIFICATION

3. Vehicle Identification Number (VIN) is located (stamped) inside the inner front cover,



NOTE:

The first 9 digitals are model type, the last 8 digitals are production serial numbers.

Your dealer need this number for ordering the parts, please write down the engine no. for their reference.

CELL PHONE CHARGING:

1. PM* is equipped with cell phone charging seat, as right figure shown:
2. Before using it, please read the warning labels first and obey it.
3. The fuse (1A) is located inside the windshield as shown.



WARNING

1. This socket is for temporary charging purpose only. Maximum output current is 1A.
2. Use this socket under Key-On position only when engine is running - do not use the socket when the engine is NOT running.
3. Use the fuse with the same specification as the factory setting. (12V/1A).
4. Fuse is located at the back of the socket.



FUNCTIONS OF EACH CONTROLLER

■ MAIN SWITCH:

THE MAIN SWITCH CONTROLLING THE IGNITION AND LAMP/LIGHT SYSTEM. THE OPERATION METHODS ARE AS FOLLOWS:

1. ON:

ELECTRICAL CIRCUIT IS CONNECTED&ENGINE CAN BE STARTED. AT THIS MOMENT, THE KEY CAN'T BE PULLED OUT.

2. OFF:

ALL ELECTRICAL CIRCUITS ARE CUT AT THIS MOMENT. THE KEY CAN BE PULLED OUT.

3. LOCK:

IN THIS POSITION, THE HANDLE COMP. CAN BE LOCKED&KEY CAN BE PULLED OUT. PLEASE REFER TO PAGE 11 HANDLE LOCK OPERATION.

NOTE: PLEASE TURN TO "OFF" OR "LOCK" (PULL OUT THE KEY) LOCATION WHEN PARK THE SCOOTER.



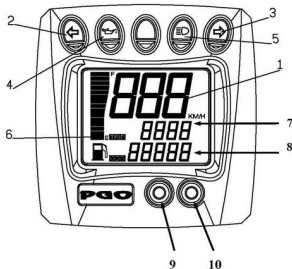


SPEEDOMETER

1. SPEED INDICATOR: SHOW THE REAL TIME SPEED .
2. LEFT TURN LAMP
3. RIGHT TURN LAMP
4. OIL WARNING LAMP:

■ IF THE OIL IS NOT ENOUGH, THE LIGHT WILL BE "ON", THEN YOU SHOULD REFILL THE OIL. AFTER THE OIL IS REFILLED, THE OIL WARNING LIGHT WILL BE OFF.

■ WHEN THE MAIN SWITCH IS "ON", THE OIL WARNING LAMP WILL "ON" FOR A FEW SECONDS AND LATER IT WILL BE "OFF" IF THE LAMP IS NOT ON, THE BULB MIGHT BE BURNED. PLEASE CHECK THE CIRCUIT SYSTEM OR TAKE IT TO YOUR DEALERS FOR CHECKING. PLEASE BE SURE THE OIL IS ENOUGH, THEN YOU MAY RIDE IT.





■ HIGH BEAM LAMP

AS THE ENGINE STARTED, THIS LAMP LIGHTS
INDICATING THAT THE HIGH BEAM IS WORKING.

▲ FUEL INDICATOR

INDICATE THE VOLUME OF FUEL IN THE TANK. THE
INDICATOR WILL MOVE FROM "F" (FULL) TO "E" (EMPTY)
AS THE FUEL IS CONSUMING.
WHEN SWITCH OFF, THE INDICATOR WILL POINT
AT THE "E" POSITION.

WHEN ONLY 2 COLUMN FUEL IS RESIDUAL, THIS
INDICATOR WILL TWINKLE, PLEASE REFILL FUEL A.S.A.P.

▲ TRIP INDICATOR: SHOWS HOW MANY (100
METERS) HAVE BEEN TRIPPED SINCE LAST
RESET.

▲ ACCUMULATED MILEAGE

SHOWS HOW MANY (MILES)
ACCUMULATED SINCE THIS
SPEEDOMETER HAS BEEN USED.

▲ MODE BUTTON: INTEGRATED INSIDE, NO
FUNCTION !

▲ RESET BUTTON

- THIS BUTTON IS USED FOR RESET THE
TRIP DISTANCE.
- TURN ON THE MAIN SWITCH, PRESS
THIS BUTTON 1 SECOND, THEN TRIP
DISTANCE WILL BE RESET TO "0".





5. EACH INDICATOR LIGHT

1.SIGNAL LIGHT INDICATOR

2.HIGH BEAM INDICATOR

3.OIL WARNING LAMP

1.SIGNAL LIGHT(GREEN)

WHEN OPERATING THE LAMP WILL FLASH WITH SOUND.

2.HIGH BEAM INDICATOR (BLUE): AS THE ENGINE START-"HI" LIGHTS INDICATING THAT THE HIGH BEAM IS WORKING.

3.OIL WARNING LAMP(RED):

IF THE OIL IS NOT ENOUGH, THE LIGHT WILL BE "ON", THEN YOU SHOULD REFILL THE OIL. AFTER THE OIL IS REFILLED, THE OIL WARNING LIGHT WILL BE OFF



NOTE:

WHEN THE MAIN SWITCH IS "ON", THE OIL WARNING LAMP WILL "ON" FOR A FEW SECONDS AND LATER IT WILL BE "OFF". IF THE LAMP IS NOT ON, THE BULB MIGHT BE BURNED. PLEASE CHECK THE CIRCUIT SYSTEM OR TAKE IT TO YOUR DEALERS FOR CHECKING. PLEASE BE SURE THE OIL IS ENOUGH, THEN YOU MAY RIDE IT.



SPEEDOMETER

FUEL GAUGE

INDICATE THE VOLUME OF FUEL IN THE TANK. THE INDICATOR WILL MOVE FROM "F" FULL TO "E" EMPTY AS THE FUEL IS CONSUMING. WHEN THE INDICATOR REACHES TO THE RED AREA, PLEASE REFILL FUEL A.S.A.P.



NOTE: WHEN SWITCH OFF, THE INDICATOR WILL POINT AT THE "E" POSITION.



HANDLE-BAR CONTROLS

1.HI/LO BEAM SWITCH

HI-The high beam is on "H" "D"

LO-The low beam is on "L" "D"

2.Turn Signal Switch

Move to ← to signal a left turn, → to signal a right turn.

Press middle to turn signal off.

3.Horn Button

4.Starter Button

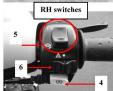
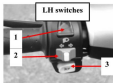
When the starter button is pressed, the starter motor cranks the engine.

5.Engine On/Off Switch

Normally this switch shall in upper position to operating the engine; But whenever there is emergency situation, you can press it down to stop the engine!

6.Parking switch

Move left to make parking signal (all signal lamps twinkling), move right to stop the signal.





REAR&FRONT BRAKE LEVER(HANDLE)

HOLD THE HANDLE & PULL THE LEVER,
THE BRAKE WILL BE OPERATING

REAR BRAKE



FRONT BRAKE





FUEL TANK COVER:

OPEN: INSERT THE KEY AND CLOCKWISE TURN 1/4,
THEN THE COVER CAN BE OPENED.

CLOSE: INSERT THE COVER TO ITS ORIGINAL
POSITION AND (COUNTERCLOCKWISE) TURN
BACK & PULL OUT THE KEY.



NOTE: IN ORDER TO FASTEN TIGHTLY, THE
COVER SHOULD BE PUT ON THE ORIGINAL POSI-

TION (ARROW TO ARROW) AS SHOWING ON THE
PICTURE.

KICK STARTER:

PULL THE KICKS OUT FROM THE ENGINE AND
KICK DOWN, THEN THE ENGINE WILL BE STARTED. (USE
KICK STARTER FOR SUBSTITUTING TO PUSH THE START
BUTTON)





HANDLE (STEERING) LOCK

INSERT THE KEY INTO THE MAIN SWITCH & TURN TO THE LOCK POSITION AND TURN THE HANDLE BAR TO THE LEFT SIDE AT THE SAME TIME, THE HANDLE WILL BE LOCKED! THE KEY CAN BE PULLED OUT.



NOTE: DO NOT TURN TO LOCK POSITION DURING RIDING SEATLOCK.

SEAT LOCK

IF NEED TO OPEN THE SEAT, PLEASE INSERT THE KEY AND TURNING AS THE INSTRUCTED. PUT BACK THE SEAT TO ITS ORIGINAL POSITION FOR CLOSING & LOCKING.





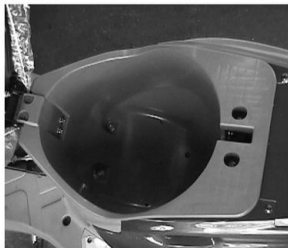
LUGGAGE COMP.

IT LOCATES UNDER THE SEAT. PUT YOUR
HELMET UPSIDE DOWN AS THE PICTURE.

NOTE:

- 1.THE MAX. LOADING WEIGHT IS 1 KGS.
- 2.WHEN THE OUTSIDE WEATHER IS HOT & ENGINE HAS
BEEN OPERATING FOR A LONG TIME, THE LUGGAGE
WILL BECOME HOT. DO NOT PUT GOODS WHICH ARE
NOT DURABLE FOR HEAT IN THE LUGGAUE COMP.
- 3.DO NOT PUT IMPORTANT OR FRAGILE GOODS IN IT.
- 4.WHEN RAINING OR WASHING THE SCOOTER, IT MAY
BECOME WET. PLEASE USE WATER-PROOF MATERIAL
TO COVER IT.

5.PLEASE LOCK THE COVER WHEN LEAVING THE
SCOOTER.



INSPECTION BEFORE RIDING:

PLEASE DO THE INSPECTION AS FOLLOWS BEFORE RIDING-

ITEM	PROCEDURE	PAGE
FRONT BRAKE	CHECK THE BRAKE FUNCTION, CLEARANCE, BRAKE OIL LEVEL, SEE IF IT'S LEAKING. IF NECESSARY, MAY REFILL FMVSS DOT 3 OR SAEJ 1703 BRAKE OIL.	16
BEAR BRAKE	CHECK THE BRAKE FUNCTION AND CLEARANCE. MAKE ADJUSTMENT IF NECESSARY.	16
THROTTLE GRIP	CHECK IF IT IS SMOOTH PUT SOME LUBRICANT & MAKE ADJUSTMENT IF NECESSARY.	23
LUBRICANT	ADJUSTMENTS IF NECESSARY. CHECK THE OIL LEVEL/ACCORDING TO THE NEED, REFILL OIL.	23
TIRE	CHECK THE PRESSURE THE WORN-OUT SITUATION.	24
CONTROLLER /GAUGE CABLE	CHECK IF SMOOTH OPERATION. ADD LUBRICANT IF NECESSARY.	-
CENTRAL STAND	CHECK IF SMOOTH. ADD LUBRICANT IF NECESSARY.	-
ASSEMBLY/ FASTEN FITS	CHECK ALL THE ASSEMBLING PARTS. FIXING & ADJUSTING IF NECESSARY.	-
FUEL TANK	CHECK THE FUEL LEVEL. REFILL UP IF NECESSARY.	17
LAMP/SIGNAL LIGHTS	CHECK IF IT IS OPERATING AT GOOD CONDITION.	27

BRAKE (REF. PAGE 36):

1. FRONT & REAR BRAKE LEVER- YOU MAY CHECK THE BRAKE DURING THE LOW SPEED RIDING. CHECK THE CLEARANCE, IF NOT CORRECT, PLEASE ADJUST.

NOTE: IF THE LEVER IS LOOSE, THAT MEANS THE BRAKE SYSTEM IS OUT OF ORDER (IT'S DANGEROUS). DO NOT RIDE IT BEFORE FIXING.

2. BRAKE OIL CHECK THE OIL LEVEL, REFILL



3. BRAKE OIL IF NECESSARY, USING FMVSS DOT 3 OR

SAE J1703 BRAKE OIL.)

4. CHECK THE PAD OF DISK BRAKE
(REF. PAGE 38)

NOTE: TAKE YOUR SCOOTER TO YOUR DEALERS IF
NEED TO CHANGE THE BRAKE DISK.

BRAKE OIL LEAK CHECK:

HOLD BRAKE LEVER FOR FEW MINUTES AND
CHECK IF ANY OIL IS LEAKING FROM THE JOINT OF
BRAKE TUBE OR MASTER CYLINDER.

NOTE: IF THE BRAKE OIL IS LEAKING, PLEASE LET YOUR
DEALERS CHECK IT FOR YOU.

IT IS A DANGEROUS SITUATION

OUR SUGGESTION

1.THE INSPECTION SHOULD BE PROCEEDED BEFORE EVERY RIDING. THE ABOVE INSPECTION CAN BE DONE IN VERY SHORT TIME BUT WORTH MORE THAN THE TIME YOU WOULD HAVE SPENT.

2.DURING THE INSPECTION, IF ANY ABNORMAL IS FOUND, PLEASE TRY TO FIX IT TO GOOD CONDITION OR, CARRY IT TO YOUR DEALERS FOR HELP.



THROTTLE GRIP:

TURN THE GRIP AND CHECK THE CLEAR-ANCE & OPERATION SITUATION. MAKE SURE THE GRIP WILL AUTOMATICALLY RETURN TO THE ORIGINAL POSITION. ASK YOUR DEALERS FOR ADJUSTING IF NECESSARY.



LUBRICANT:



KEEP THE LUBRICANT
BE FULL.
CAPACITY OF LUBRICANT
: 1.1 LITER.



NOTE: DO NOT USE A NON-SPECIFIED LUBRICANT
(WHICH IS NOT RECOMMENDED BY US), THAT MAY
CAUSE HIGH DENSITY EMISSION.

AIR FILTER:

THE FUNCTION OF THE AIR FILTER IS TO PREVENT



THE DUST ENTERING THE ENGINE AND WEAR OUT THE ENGINE. PLEASE ASK THE DEALERS TO CHECK & CLEAN THE FILTER FOR THE TIME BEING.

TIRE:

IN ORDER TO HAVE THE HIGHEST EFFICIENCY & SAFETY OPERATION, PLEASE PAY ATTENTION TO THE FOLLOWS:

1. TIRE PRESSURE-CHECK IF IT'S IN ACCORDANCE WITH THE STANDARD PRESSURE.

NOTE: THE TEMPERATURE OF THE INSIDE & OUTSIDE TIRE OUGHT TO BE THE SAME, THEN ACCORDING TO THE LOADING, RIDER'S WEIGHT & RIDING SPEED TO CHECK AND ADJUST THE TIRE PRESSURE.

THE NORMAL TIRE PRESSURE:

FRONT: 2.0 KG/CM²

REAR: 2.0 KG/CM²



2. CHECKING: CHECK THE TIRE SITUATION BEFORE RIDING. IF THE OUTSIDE TIRE IS WORN OUT OR STABBED BY NAIL, GLASS OR CRACKING. PLEASE ASK YOUR DEALERS FOR INSPECTION. AND IF NECESSARY, CHANGE A SAME SPEC. TIRE.

3. INSPECTION FOR THE DEPTH OF THE TIRE GROOVE (TRACK): IF THE TIRE IS WORN OUT TOO MUCH, THE GROOVE WILL BE COVERED BY DIRT AND WHEN THE ROAD IS WET, THAT WILL BE EASY OF SLIDE DURING RIDING. PLEASE CHANGE THE TIRE IF THE DEPTH IS LESS THAN 0.8MM. REFER TO THE FOLLOWING PICTURE.

NOTE:

1. IT IS VERY DANGEROUS TO RIDE A SCOOTER WITH A WORN-OUT TIRE WHEN THE DEPTH OF THE TIRE DECREASING TO THE INDICATOR ARROW. PLEASE ASK YOUR DEALERS TO CHANGE THE TIRE FOR YOU.
2. THE REPLACEMENT OF BRAKE, TIRE AND WHEEL SHOULD BE DONE BY YOUR PGO DEALER, PLEASE DO NOT DO IT BY YOURSELF.



LAMPS & SIGNAL LINGHTS:

CHECK THE FRONT, SIGNAL-REAR, BRAKE, GAUGE LAMP AND ALL OTHER INDICATOR LIGHTS, TO ASSURE IF THEY ARE WORKING WELL.

SWITCHES:

CHECK THE SWITCH OF HEAD LAMP, SIGNAL, BRAKE LAMPS, HORN AND START BUTTON ETC. ALL THE SWITCHES AND MAIN SWITCHES SHOULD BE IN WORKING SITUATION.

FUEL (GASOLING): MAKE SURE THERE'S ENOUGH FUEL IN THE TANK.

NOTE:

- 1.TANK CAPACITY: 5.1 Liter
- 2.DO NOT OVER-FILL UP THE GASOLINE
(DON'T OVER THE NECK LINE)OTHER- WISE IT WILL BE SPILLING OUT DUE TO THE HOT TEMPERATURE.
- 3.DO NOT SPILL OUT THE GASOLINE ON THE MUFFLER.

STARTING ENGINE:

NOTATION FOR OPERATION/RIDING:

PLEASE BE FAMILIAR WITH ALL THE OPERATION SYSTEM&FUNCTION BEFORE RIDING.

PLEASE CONTACT WITH YOUR DEALERS IF THERE'S ANY QUESTION.

2.DO NOT START THE ENGINE IN A CLOSED PLACE(WITHOUT VENT)



3.TURN THE MAIN SWITCH TO "ON"

4.WHEN THE THROTTLE IS TOTALLY CLOSED, HOLD THE BRAKE LEVER&PUSH THE START BUTTON OR USE THE KICKSTARTER TO START THE ENGINE.

NOTE: IF THE ENGINE CAN'T BE STARTED, RELEASE THE START BUTTON. IN ORDER TO AVOID LOSING HUGE AMOUNT OF ELECTRICITY, PLEASE DO NOT PUSH THE BUTTON OVER 3 SECONDS EACH TIME. USE KICK STARTER TO START THE ENGINE IF THE START BUTTON IS NOT WORKING.

WARM UP THE ENGINE:

IN ORDER TO PROTECT THE ENGINE, PLEASE WARM UP THE ENGINE 1-3 MINUTES BEFORE RIDING. DO NOT ACCELERATE TOO FAST WHEN THE ENGINE IS COLD.

NOTE: PLEASE READ "ENGINE INITIAL RUN-IN" (PAGE 30) BEFORE OPERATING THE SCOOTER.



SCOOTER RIDING:

AFTER WARMING UP THE ENGINE:

1. USE YOUR HAND TO HOLD THE BRAKE LEVER AND PUSH DOWN THE CENTRAL STAND.

2. CHECK THE REAR VIEW MIRROR ANGLE.

3. VIEWING THE TRAFFIC SITUATION, AND USE THE SIGNAL LIGHT BEFORE RIDING.

4. GRADUALLY TURN THE THROTTLE GRIP AND TURN OFF THE SIGNAL LIGHT AFTER RIDING.

ACCELERATING (THROTTLING):

BY TURNING THE THROTTLE GRIP, THE SPEED CAN BE ADJUSTED. TURNING DOWN THE THROTTLE TOWARDS YOUR BODY, IT WILL SPEED UP. REVERSING IT TO SLOW DOWN THE SPEED.



BRAKE USING:

1.RELEASE THE THROTTLE GRIP.

2.GRAADUALLY PULL(PRESS) THE LEVER OF BOTH FRONT AND REAR BRAKE.



NOTE:

1.DO NOT STOP ABRUPTLY TO AVOID SLIDING & FALLING DOWN.

2.BE CAREFUL TO USE THE BRAKING WHEN THE SCOOTER IS SLIDING TO ONE SIDE. INAPPROPRIATE USING OF THE BRAKE MAY CAUSE SLIDING.

3.SLOW DOWN THE SPEED ON THE PAVED IRON PLATE, RAIL WAY TRACK & WET ROAD.

4.IT IS DIFFICULT TO BRAKE ON THE WET ROAD & CLIMBING SLOPE. SLOW DOWN THE SPEED WHEN SLOPING DOWN.

ENGINE INITIAL RUN-IN

MILEAGE FROM 1 TO 1,000 MILES IS THE MOST IMPORTANT PERIOD FOR THE SCOOTER'S SUSTAINING LIFE. THE NEW ENGINE CAN'T AFFORD TOO MUCH LOADING DURING THE FIRST 1,000 MILES. EACH PART OF THE ENGINE WILL BE RUN-IN TO OBTAIN THE CORRECT CLEARANCE. IN THIS PERIOD, AVOID PROLONGING THE COMPLETE THROTTLING OUT OR ANY OPERATION WHICH MAY CAUSE HIGH TEMPERATURE IN THE ENGINE. PLEASE READ CAREFULLY THE ENGINE. PLEASE READ CAREFULLY THE FOLLOWING INFORMATION.

1. 0~150 MILES

AVOID OVER 1/2 THROTTLING OPERATION. COOL DOWN THE ENGINE 5-10 MIN./PER HOUR. CHANGING THE SPEED (DO NOT CONTINUE AT THE SAME SPEED FOR TOO LONG.)

2. 150~500 MILES

AVOID OVER 1/2 THROTTLING LONG OPERATION.

3. 500~1,000 MILES

AVOID OVER 3/4 THROTTLING OPERATION.

NOTE: CHANGE GEAR OIL AFTER 200 MILES

4. ABOVE 1,000 MILES

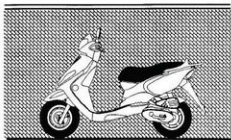
AVOID THROTTLING OUT TOTALLY IN A LONG PERIOD OPERATION.

NOTE: IF THERE IS ANY PROBLEM DURING THE INITIAL RUN-IN PERIOD, PLEASE CONTACT YOUR DEALERS.

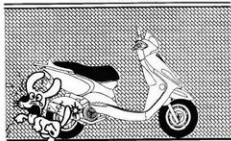
PARKING:

TURN OFF THE ENGINE AND PULL OUT THE KEY WHEN PARKING THE SCOOTER.

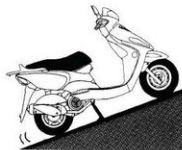
NOTE: BECAUSE THE MUFFLER IS VERY HOT (AFTER RIDING), PLEASE PARK YOUR SCOOTER FAR FROM THE CHILD & REDESTRIANS TO AVOID THEM TOUCHING IT. DO NOT PARK YOUR SCOOTER ON A SLOPE OR SOFT GROUND TO AVOID FALLING DOWN.



CORRECT



INCORRECT



INCORRECT

PERIODICAL MAINTENANCE AND CONCISE REPAIRING:

TO SECURE THE MOST SAFE AND EFFECTIVE PERFORMANCE, PLEASE CHECK, ADJUST AND LUBRICATE YOUR SCOOTER PERIODICALLY. "SAFETY CONSIDERATION" SHOULD BE EVERY RIDER'S PRIORITY AND MAINTENANCE TABLE SHOULD BE AN IMPORTANT GUIDE FOR CONCISE REPAIRING. MEANWHILE, PLEASE PAY ATTENTION TO THE ENVIRONMENT, CLIMATE, GEOGRAPHY AND RIDING CONDITION TO SET UP A PROPER MAINTENANCE INTERVAL.

NOTE:

THIS SCOOTER IS DESIGNED TO BE RIDING ON NORMAL PAVED ROAD. IF UNDER A DIRT AND WET COND-ITION, PLEASE CLEAN THE AIR-FILTER FREQUENTLY OTHERWISE THE ENGINE WILL BE WORN-OUT QUICKLY. IF YOU ARE NOT FAMILIAR WITH THE INSPECTION AND PRECAUTION, PLEASE CONTACT YOUR DEALERS.

MAINTENANCE TABLE (A: CHECKING & ADJUSTING, C: CLEANING, P: REPLACING, T: TIGHTENING

In order to be safe, keep good efficiency, and reduce pollution, please do the maintenance a certain period of **time**.

ITEM	DRIVING MILES														Examine Before riding	
	200		2000		4000		8000		10000		12000		14000			16000
Spark plug	Clean it once per 2,000miles or change a new one															
Decarbonizing					C				C				C			
Transmission belt					A				A				A			
Ignition timing					A				A				A			
Air cleaner			C		C		C		C		C		C		C	
Carburetor	A		A		A		A		A		A		A		A	
Idle(rpm)	TUNING TO 1,900±100rpm															
Emission	A		A		A		A		A		A		A		A	
Fuel filter					C				C				C			
Oil filter					C				C				C			
Oil volume	REFILL THE RECOMMENDED OIL ONCE THE "WARNING LAMP" IS ON															
Gear oil	R				R				R				R			
Pressure of tyre	A		A		A		A		A		A		A		A	A
Tyre	CHANGE A NEW ONE ONCE WEARING OUT															A
Brake lever	A		A		A		A		A		A		A		A	A
Disk brake oil	KEEP THE LIQUID SURFACE BETWEEN HIGH AND LOW															A
Brake lining	CHECKING PER 4,000MILES AND CHANGE A NEW ONE IF NECESSARY															
Screws and nuts	T		T		T		T		T	T	T		T		T	
Pipes	A		C		C		C		C	C	C		C		C	
Lighe & horn	A		A		A		A		A	A	A		A		A	A

CLEANING THE AIR-CLEANER:

1. SCREW OUT THE SCREWS AND TAKE OFF THE AIR-CLEANER COVER.

2. TAKE OUT THE SPONGE, AND CLEAN IT.

NOTE: USING SOLVENT TO CLEAN THE SPONGE ONLY. DO NOT USE FLAMMABLE & EXPLOSIVE SOLVENT.

3. DRY OUT THE SOLVENT OF THE SPONGE BUT AVOID DESTROYING IT.

4. REFILL FEW LUBRICANT OIL ON THE SURFACE OF THE SPONGE (ONLY WET IT BUT NOT DIP IT IN THE OIL).

5. PUT BACK THE SPONGE ON THE AIR CLEANER

6. AND PERFECTLY FASTEN THE COVER WITHOUT ANY LEAKING.

7. ASSEMBLE THE AIR-CLEANER & PUT BACK TO ITS ORIGINAL PLACE. PLEASE MAKE SURE THAT THE SCREWS ARE FASTENED TO AVOID CLEANER) GO INTO THE ENGINE.

PM® MODEL (PAPER ELEMENT)



PM® NAKED (SPONGE ELEMENT)



NOTE: PLEASE DO NOT START THE ENGINE BEFORE THE AIR-CLEANER IS ASSEMBLED, OTHERWISE THE ENGINE WILL BE BADLY WORN OUT.

CHECKING THE SPARK PLUG:

SPARK PLUG IS ONE OF THE IMPORTANT PARTS OF THE ENGINE AND IT IS EASY TO BE CHECKED. ACCORDING TO SPARK PLUG CONDITION, YOU MAY INFER THE SITUATION OF THE ENGINE. THE IDEAL COLOR OF THE ELECTRODE SHOULD BE LIGHT BROWN. IF THERE'S ANY PROBLEM, PLEASE ASK YOUR DEALERS TO CHECK FOR YOU. PLEASE TAKE OFF THE SPARK PLUG AFTER A PERIOD OF TIME BECAUSE IT WILL BE CORRODED & WORN OUT DUE TO THE HOTNESS AND DIRT FOR THE TIME BEING. IF HAPPENED, PLEASE CHANGE A NEW SPARK PLUG.

Standard Spark Plug : BPT15 (NGK) or
BPR7HS FOR REGULATION

THE SPARK PLUG

Spark plug is one of the important parts of the engine and it is easy to be checked. According to spark plug condition, you may infer the situation of the engine. The ideal color of the electrode should be light brown. If there's any problem, please ask your dealers to check will be corroded & worn out due to the hotness and dirt for the time being. If happened, please change a new spark plug.

- Standard spark plug: For 2T Engine BP7HS(NGK) ; BPR7HS for EEC specification
- Spark plug gap : 0.6~0.7mm

When checking the spark plug, please cleaning the surface of the washer and screw, the fasten it.

- Torque: 1.2kgf-m

NOTE:

If there is no wrench or torque gauge can be used, please wrenching it by your fingers turn 1/4~1/2 and later use the wrench to fix it to the standard torque once available.

EXCHANGE OF GEAR OIL

- Please change the oil after first 200mile ride, then it is recommended to change the gear oil every 2000~3000 miles.
- Regular changing volume : 90 c.c. (SAE 140)



BRAKE ADJUSTMENT

The clearance of lever

(a) Front brake: 10~20 mm

(b) Rear brake: 10~20 mm

NOTE:

Please contact to PGO dealer if the clearance is incorrect.



Rear brake check

The indicator will help you to easily screen the status of brake function. Please replace the shoe of rear brake if indicator reaches the warning line.

1. Brake indicator
2. Warning line



Front brake check

Please acting the brake for checking. If the pads almost reach the bottom, please ask your dealers to change it by:

1. visual check if the pad worn out to the bottom of the groove or not.
2. measure the pad thickness, if it is less than 2mm.

NOTE: If the brake area is wet(getting water), the brake will be out of order and dangerous to you.



BRAKE FLUID CHECK

Insufficient brake fluid will make the air into the brake system and may cause the brake out of control. Please check the brake fluid level all the time and refill it if necessary.

1. When checking the oil level, please turn the handle bar assuring the brake oil on the horizontal position.
2. Use correct brake oil, otherwise the oil seal will be defected. This will cause the oil leaking & losing the brake function. Standard brake oil: FMVSS DOT3 or SAE J1703.



1. LOWER LEVEL

FRONT FORK CHECKING:

3. REFILL THE SAME KIND OF BRAKE OIL. MIXING OF DIFFERENT OIL & TYPES WILL YIELD A BAD CHEMICAL REACTION AND CAUSE THE BRAKE OUT OF ORDER.
4. TO AVOID THE WATER GETTING INTO THE MAIN CYLINDER, OTHERWISE. THE BOILING TEMPERATURE OF THE BRAKE OIL WILL BE DECLINING AND MAKE THE AIR BE OBSTRUCTED.
5. BRAKE OIL COULD DAMAGE THE PAINT SURFACE AND PLASTIC PARTS. IF ANY OIL IS SPILLED OUT, PLEASE CLEAN IT IMMEDIATELY.
6. IF THE BRAKE OIL CAN'T BE REFILLED TO THE STANDARD LEVEL, PLEASE CHECK WITH YOUR DEALERS.

NOTE: IN ORDER TO AVOID FALLING DOWN, PLEASE UPHOLD THE SCOOTER SAFELY.

1. CHECKING BY EYES-CHECK IF THE INNER PIPE IS SCRATCHED, BROKEN, OR LEAKING
2. OPERATING CHECK: PUT THE SCOOTER IN A PLAIN SURFACE.
 - (a) HOLD THE HANDLE AND KEEP THE SCOOTER IN VERTICAL POSITION, THEN HOLD THE FRONT BRAKE LEVER.
 - (b) MOVE UP & DOWN THE FRONT FORK FOR A COUPLE OF TIMES.

NOTE: IF FOUND THE FRONT FORK IS NOT SMOOTH OR BROKEN, PLEASE CONTACT WITH YOUR DEALER.



2.FUNCTION CHECK

1.EYE CHECKING 2.OPERATION CHECKING

BATTERY:

THE BATTERY IS SEALED SO YOU DON'T NEED TO CHECK THE LIQUID NOR REFILLING. IF THE LIQUID IS LEAKING, PLEASE CHECK WITH YOUR DEALER.

NOTE: PLEASE DO NOT TAKE OFF THE SEAL BOLT OF THE BATTERY. THAT WILL DAMAGE YOUR BATTERY SYSTEM.

CHANGING FUSE :

1.THE FUSE IS LOCATED BESIDE THE BATTERY (UNDER THE STEP BOARD)

2.TAKE OFF (a) 2 SCREWS ON THE COVER (b) THE COVER

3.IF THE FUSE IS BURNED OUT, TURN OFF THE MAIN SWITCH AND THE SWITCH OF THE DEREG- TIRE PARTS. CHANGE A NEW CORRECT FUSE. TURN ON THE SWITCH, AND CHECK THE OPERATION SITUATION. IF THE NEW FUSE IS BURNED OUT AGAIN, PLEASE CONTACT WITH YOUR DEALER.

NOTE:DO NOT USE A HIGHER AMPERE FUSE THAN THE ORIGIN SPEC. A DIFFERENT (ABNORMAL) FUSE WILL SERIOUSLY DAMAGE THE BATTERY SYSTEM AND MIGHT CAUSE FIRE.



SPECIFICATION LIST

TYPE	PMS-50DN	PMS-110DN
DIMENSION:		
OVERALL LENGTH	1667 mm	1667 mm
OVERALL WIDTH	780 mm	780 mm
OVERALL HEIGHT	1125 mm	1125 mm
WHEELBASE	1173 mm	1173 mm
DRY WEIGHT	92 kg	92 kg
ENGINE:		
TYPE	Two stroke, forced air cooling	Two stroke, forced air cooling
MODEL NO.	P2	P0
CYLINDER ARRAY	SINGLE	SINGLE
PISTON DISPLACEMENT	49.0 cc	106.2 cc
START SYSTEM	ELECTRIC AND KICK	ELECTRIC AND KICK
LUBRICATION SYSTEM	SEPARATE	SEPARATE
LUBRICANT	Recommend two stroke oil (FC class)	Recommend two stroke oil (FC class)
CAPACITY	1.1 Liter	1.1 Liter
GEAR OIL:		
MODEL	API SAE 140	API SAE 140
CAPACITY	110 cc	110 cc
REPLACEMENT VOLUME	90 cc	90 cc



SPECIFICATION LIST

TYPE	PMS-50DN	PMS-110DN
AIR CLEANER	DRY PAPER FILTER	DRY PAPER FILTER
FUEL: GASOLINE CAPACITY OF TANK	UNLEADED 5.1 Liter	UNLEADED 5.1 Liter
SPARK PLUG	BP7HS(NGK) OR BPR7HS(NGK) REGULATION	BP7HS(NGK) OR BPR7HS(NGK) REGULATION
CLUTCH TYPE	DRY TYPE	DRY TYPE
GEAR SHIFT TYPE	AUTOMATIC(V BELT)	AUTOMATIC(V BELT)
TIRE SIZE (FRONT) (REAR)	120/70-12 130/90-10	120/70-12 130/90-10
ELECTRIC SYSTEM IGNITION SYSTEM GENERATOR SYSTEM BATTERY TYPE CAPACITY OF BATTERY	CDI FLYWHEEL MAGNET ELECTRIC YTX4L-BS 12V-3AH	CDI FLYWHEEL MAGNET ELECTRIC YTX5L-BS 12V-4AH
BULB VOLT/QUANTITY HEAD LAMP LAMP TYPE REAR LAMP/STOP LAMP SIGNAL LAMP	12V-35W/35W×1 12V- 21/5W 12V- 21W×4	12V-60W/55W×1 12V- 21/5W 12V- 21W×4



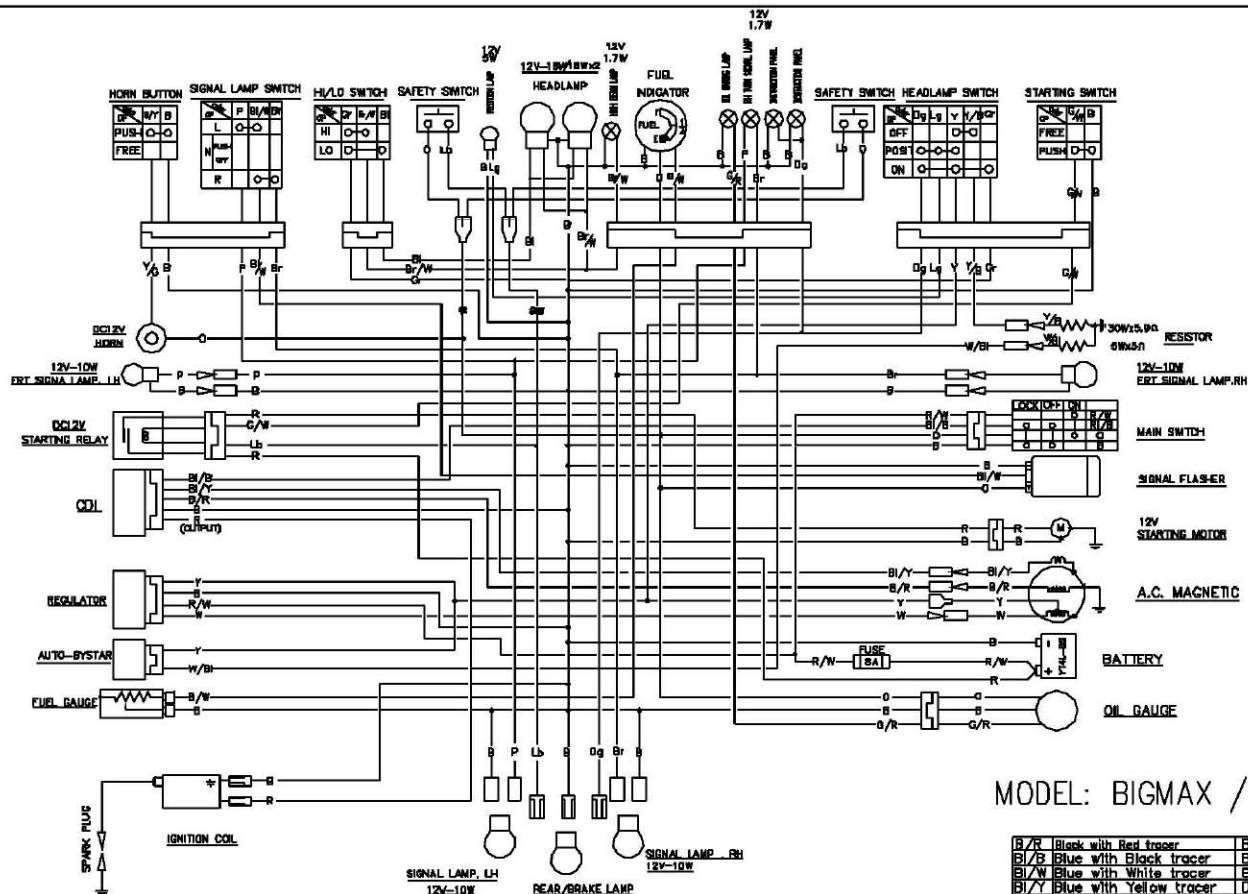
SPECIFICATION LIST

TYPE	PM*-50	PM*-110
DIMENSION:		
OVERALL LENGTH	1807 mm	1807 mm
OVERALL WIDTH	637 mm	637 mm
OVERALL HEIGHT	1116 mm	1116 mm
WHEELBASE	1173 mm	1173 mm
DRY WEIGHT	87 kg	89 kg
ENGINE:		
TYPE	Two stroke, forced air cooling	Two stroke, forced air cooling
MODEL NO.	P2	P0
CYLINDER ARRAY	SINGLE	SINGLE
PISTON DISPLACEMENT	49.0 cc	106.2 cc
START SYSTEM	ELECTRIC AND KICK	ELECTRIC AND KICK
LUBRICATION SYSTEM	SEPARATE	SEPARATE
LUBRICANT	Recommend two stroke oil (FC class)	Recommend two stroke oil (FC class)
CAPACITY	1.1 Liter	1.1 Liter
GEAR OIL:		
MODEL	API SAE 140	API SAE 140
CAPACITY	110 cc	110 cc
REPLACEMENT VOLUME	90 cc	90 cc



SPECIFICATION LIST

TYPE	PM*-50	PM*-110
AIR CLEANER	DRY PAPER FILTER	DRY PAPER FILTER
FUEL: GASOLINE CAPACITY OF TANK	UNLEADED 5.1 Liter	UNLEADED 5.1 Liter
SPARK PLUG	BP7HS(NGK) OR BPR7HS(NGK) REGULATION	BP7HS(NGK) OR BPR7HS(NGK) REGULATION
CLUTCH TYPE	DRY TYPE	DRY TYPE
GEAR SHIFT TYPE	AUTOMATIC(V BELT)	AUTOMATIC(V BELT)
TIRE SIZE (FRONT) (REAR)	120/70-12 130/70-12	120/70-12 130/70-12
ELECTRIC SYSTEM IGNITION SYSTEM GENERATOR SYSTEM BATTERY TYPE CAPACITY OF BATTERY	CDI FLYWHEEL MAGNET ELECTRIC YTX4L-BS 12V-3AH	CDI FLYWHEEL MAGNET ELECTRIC YTX5L-BS 12V-4AH
BULB VOLT/QUANTITY HEAD LAMP LAMP TYPE REAR LAMP/STOP LAMP SIGNAL LAMP	12V-18W/18W×2 12V- 5W/21W×1 12V- 10W×4	12V-18W/18W×2 12V- 5W/21W×1 12V- 10W×4



MODEL: BIGMAX / PMS

B/R	Black with Red tracer	B	Black
Bl/B	Blue with Black tracer	Bl	Blue
Bl/W	Blue with White tracer	Br	Brown
Bl/Y	Blue with Yellow tracer	Dg	Dark Green
Br/W	Brown with White tracer	Db	Dark Blue
G/W	Green with White tracer	Lb	Light Blue
Gr	Gray	O	Orange
R/W	Red with White tracer	P	Pink
W/B	White with Black tracer	R	Red
Y/B	Yellow with Black tracer	W	White
Y/G	Yellow with Green tracer	Y	Yellow

摩哈動力工程
MOTOR POWER ENGINEERING CO., LTD.



Plan mile	Actual mile	Date	Dealer Sign.	Plan mile	Actual mile	Date	Dealer Sign.
200				10,000			
1,000				11,000			
2,000				12,000			
3,000				13,000			
4,000				14,000			
5,000				15,000			
6,000				16,000			
7,000				17,000			
8,000				18,000			
9,000				19,000			

- Please decrease maintenance period when often driving in dusty areas.
- Copy the blank table to use when odometers is over the above table planned.