DEAR CUSTOMERS:

Thank you for choosing **G-MAX** (**ALLORO**) of **PGO** scooter. It is a fact that the efficiency and sustaining life of each scooter depend heavily on the operating method of each user. Thus this owner's manual will provide you a precise knowledge of easy adjusting, sustaining and precaution for your scooter. We hope you will read and check it carefully.

Please recognize your scooter model clearly in order to read the following instruments.

If there is any question, please do not hesitate to ask your dealer for assistance.

We hope you will enjoy it!

Manufactured by: Motive Power Industry Co., Ltd.

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Check List before Delivery

Name:	Tel:	Age:	Sex:

Address:

Engine No: Model: VIN No

Delivery date: Year Month Dealer: day

						_	
NO	Check Item	Υ	N	NO	Check Item	Υ	N
1	Steering of Handle Bar			8	Tire Pressure		
2	Gap of Brake Lever			9	Confirm Engine No & Document		
3	Lights and Horn			10	Owner's Manual		
4	Fuel Tank and Fuel Kind			11	Operating Method Introduction		
5	Engine Oil			12	Periodic Maintenance introduction	1	0
6	Disk Brake fluid			13	Warranty Introduction	U	
7	Engine Coolant		1.		PARTITUDE.		
Staf	f Signature:	5.1	17	Cus	tomer Signature:	1	

Suggestion:

Please Sign both customer & service Staff.

- seit 1993 Mail this chart to agent, and then the Warranty will be effective.



PGO Warranty Card

Name		Te l ephone	Registration date
	157		
Address			
Model	Displacement 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

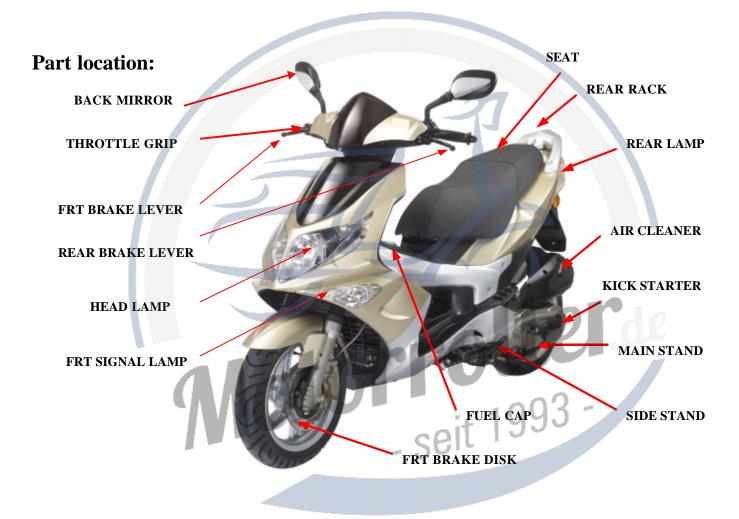
- 1. Always make a pre-ride inspection(page 13) and perform any needed adjustments or repairs before you ride the scooter.
- 2. Many accidents involve inexperienced riders. Most countries require a special scooter riding test or license. Make sure you are qualified before your ride.

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.

- 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.





IDENTIFICATION

- 1. Recognize your vehicle model according to license document or manufacturing document.
- 2. This manual includes 5 kinds of engine models:
 - G-MAX 50 (ALLORO 50): abbreviated as "M2-50" is 2 stroke (2T) / 50 C.C engine...
 - G-MAX 125 (ALLORO 125): abbreviated as "M2-125" is 4 stroke(4T) / 125cc engine.
 - G-MAX 150BA(ALLORO 150): abbreviated as "M2-150BA" is 4 stroke(4T) / 150cc / 2 valves, engine.
 - G-MAX 150BB(ALLORO 150): abbreviated as "M2-150BB" is 4 stroke(4T) / 150cc / 4 valves engine.
 - G-MAX 250 (ALLORO 250): abbreviated as "M2-250" is 4 stroke engine (4T), 250cc engine.
- 3. Because this manual is suitable for all G-MAX (ALLORO) serial models, there are many different operations between every model. Once you see a model indication bar appears above the page, for example:



The "M2-50" model button lights on, and the lower bar is filled, that means this page is suitable for "M2-50".

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 seit 1999 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.



THE FUNCTION OF SWITCHES

1. MAIN SWITCH

The main switch controls the ignition and lighting system, followings are the operation instruction.



The power is on, engine can be started.

The key can not be pulled out at this position.



All the power is cut off. The key can be pulled out at this position.



All the power is cut off, and the handle bar is locked at this position.

PUSH THE KEY AND TURN COUNTERCLOCKWISE

This operation can open the seat, no matter the key is at "O" or "O" or "O" position.

PUSH THE KEY AND TURN CLOCKWISE

This operation can open the fuel cap.

Please refer to following pages for the detail operation instructions.



2.1 SPEEDOMETER

1 SIGNAL INDICATOR (GREEN)

When the blinker switch is shifted, this indicator will flash and tickling.

2 HIGH BEAM INDICATOR (BLUE)

When the HI/LO beam switch is set on 'HI', this indicator will light on

3.ENGINE-OFF INDICATOR

If this indicator lights, the engine can not be started.

4.SPEED INDICATOR

5.FUEL GAUGE

The fuel gauge shows the approximate fuel supply available. At F (full) there, are 7.0 liters approximately, including the reserve supply. When the meter pointer reaches to the first point of the red band, there is only 1 liter fuel residual in the tank, refill the tank as soon as possible.



2.2 SPEEDOMETER

6. ENGINE SPEED INDICATOR

Multiply the indicated digital by 1,000 rpm. (round per minute)

7. DIGITAL CLOCK

this clock is powered by vehicle battery, there is not any individual battery inside it. Once replace the battery, you have to settle the present time again

a. CLOCK MODE BUTTON

Press to switch different displays, after setting the parameter, also press it to confirm.

b. CLOCK ADJUSTING BUTTON

Press to increase the parameter one by one.

8. ACCUMALATED MILEAGE

9.OIL WARNING INDICATOR

Fill the 2T oil as soon as this indicator lighting. (only for 2T engine)



1

10. HIGH TEMPERATURE WARNING

- This bulb is used only for M2-250.
- When key ON, it will selfish test the lamp (ON) for about 1 second.
- After the selfish test, when this lamp is ON again, that warns you the temperature of cooling water is too high, you have to stop the engine and cold down the temperature immediately.

2.3 SPEEDOMETER

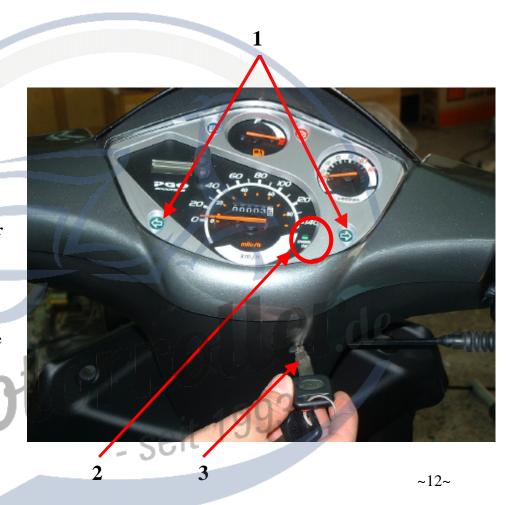
1. SIGNAL INDICATOR (GREEN)

When the blinker switch is shifted, this indicator will flash and tickling.

2. Engine oil replacement indicator

When appear Red color, replace the 4T engine oil as soon as possible.

- 1. Insert the key to reset the engine oil replacement counter, it will become Green color again.
- 2. For the other indicators, please refer 2.1 & 2.2 descriptions.



HANDLE-BAR CONTROLS

1. HI/LO BEAM SWITCH

HI-The high beam is on "≡D"

LO-The low beam is on " | "

Press the lower part to make a passing signal.

2. Turn Signal Switch

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

Press to turn signal off.

3. Horn Button

When the horn button is pressed, the horn will sound.

4. ENGINE RUN/OFF Switch

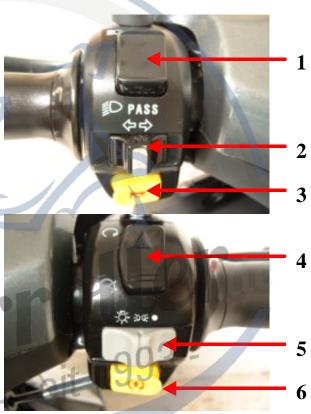
Press lower part to stop the engine, and press upper part to run the engine.

5. HEADLIGHT Switch

ON-Headlight, position light, taillight and meter light will be on, when the engine is running.

6. STARTER BUTTON

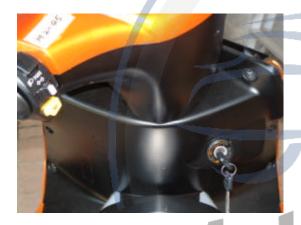
The starter button is below the headlight switch. When the starter button is pressed, the starter motor cranks the engine.



STEERING LOCK

To lock the steering, turn the handle all the way to left and turn the key from

" \leftarrow " to " \bigcirc " then remove the key.



NOTE:

Do not turn the key to while riding. The scooter loss of control will occur.

SEATLOCK

Push the key and turn counterclockwise to open the seat.



FUEL TANK CAP

- Insert the key into ignition switch, and keep in "" position. Push the key and turn clockwise to open the fuel cap.
- Push the cap forward to lock it

KICK STARTER LEVER

Swing the lever outwardly. Kick the lever down slowly till the gear stop, then kick the lever down strongly to star the engine.



LUGGAGE COMPARTMENT

The luggage compartment is under the seat. Whenever the seat is opened, there is a lamp inside the luggage will light on.



NOTE:

- 1. The max loading weight is 5 KGS.
- 2.If engine has been operating over a long time.

 The luggage compartment become hot. Do not put luggage in the temperature
- 3.Do not put important or fragile goods for security reason.
- 4. Raining or wash may cause luggage wet inside. Please use water-resistant material for luggage wrapping.
- 5. Please lock the cover when leaving the scooter.

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PRE-RIDING INSPECTION

Please do the inspection as following before riding:

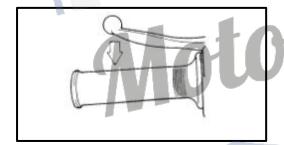
ITEM	PROCEDURE	PAGE
FRONT BRAKE	Check the brake function, clearance, brake oil level, see if it is leaking. If necessary, may refill FMVSS DOT3(4) OR SAEJ 1703 brake oil.	29,40
REAR BRAKE	Check the brake function and clearance, proper adjustment if necessary.	39
THROTTLE GRIP	Check if it is smooth, put some lubricant.	25
LUBRICANT	Adjustments if necessary. Check the oil level/according to the request to refill oil.	20
TIRE	Check the pressure, the wear out situation.	24
CONTROLLER /GAUGE CABLE	Check if smooth operation. Add lubricant if necessary.	
BRAKE LEVER (HANDLE)	Check if smooth operation. Add lubricant if necessary.	18
CENTRAL STAND	Check if smooth operation. Add lubricant if necessary.	
ASSEMBLY /FITTING	Check all the assembling parts, fixing & adjusting if necessary.	7
FUEL TANK	Check the fuel level. Refill up if necessary.	10
LAMP /SIGNAL LIGHTS	Check if it is operating good condition.	25

BRAKE

Adjustment:

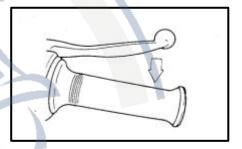
- 1.Measure the distance of the rear brake lever play before the brake starts to take hold.

 Free play should be:10 20mm.
- 2.Make free play adjustments by turning the adjusting nut at the brake arm.
 Make sure the cutout on the adjusting nut is seated on the brake arm pin after making final free play adjustment.
- 3. Apply the brake several times and check for free wheel rotation when released.



FRONT BRAKE

The front brake will be on function when hold the handle and pull the right hand lever.



NOTE:

If the pre-riding inspection is not performed, severe personal injury or vehicle damage may result. Inspect your scooter, and perform any needed adjustments or repairs, Every day before you ride it. The items listed above will only take a few minutes to check and, in the long run, can save time, expense, and possible your life.

BRAKE (Please refer to page35)

1.Front /Rear brake levers

Inspect the free play of levers. Make sure the function is well.

Please check the brake at low speed, adjust the free play if it is not correct.

CAUTION

If the brake lever feels soft when operating, Which means the brake system has problem. Do not ride the scooter before the problem is ruled out.

2.BRAKE FLUID (Disk Brake)

Check the fluid level. Refill it if necessary. Fluid Spec. FMVSS Dot3 or SAE J1703

3.DISK BRAKE PAD

Please refer to page 36. Please go to the PGO Dealer when this brake needed repairing.

BRAKE FLUID LEAKAGE INSPECTION

Hold the brake level for few minutes to check if there is any fluid leaks from the hose connector or main cylinder.



CAUTION

Go to the PGO dealer immediately when find the brake fluid is leaking.

The leakage means the braking system has deadly dangerous problem.

~19~

ENGINE OIL for 2T Engine

- Oil warning indicator
 This lamp will make self test (light ON)
 for about 2 seconds whenever turn on the main
 key, if it lights on again after self test, that
 reminds you have to fill the oil as soon as
 possible.
- Open the seat, and lift the battery cover.
- Take off the oil tank cap, and fill the 2T oil carefully









ENGINE OIL

1. 4T Engine (125 / 150/ 250 CC)

- Engine oil shall be replaced per 1,000 kilometers.
- Engine oil volume must be examined after engine warn-up 2 3 minutes. Be sure to execute on flat road.
- Draw out and examine the oil gauge. Please refill if the volume below the low warning line.





AIR-CLEANER



The air filter will keep dust away from the engine and also protect it against wearing out. Please ask the dealer to check & clean the filter periodically, or by yourself. (ref:page 33)

1. 4T Engine (M2-125 / 150 CC) Wet paper filter element

- seit 1993 -



AIR-CLEANER



The air filter will keep dust away from the engine and also protect it against wearing out. Please ask the dealer to check & clean the filter periodically, or by yourself. (ref:page 33)

1. 4T Engine (M2-250 CC) Wet paper filter element



AIR-CLEANER

The air filter will keep dust away from the engine and also protect it against wearing out. Please ask the dealer to check & clean the filter periodically, or by yourself. (ref:page 33)

2. 2T Engine (50 CC)

Sponge filter element

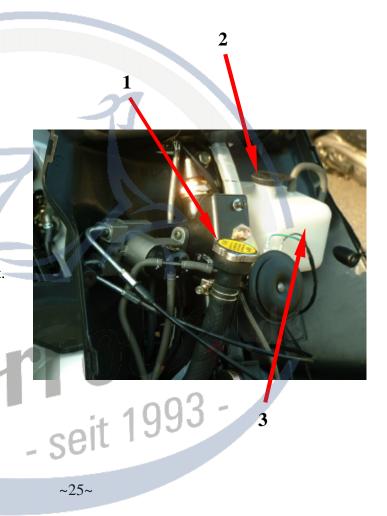




Engine Coolant (M2-250 only)

To inspect the engine coolant inside the windshield as figured:

- 1. Radiator cap: Don't open it when the engine is hot, the high temperature of engine coolant may harm you!
- 2. Reservoir tank cap: also don't open it when the engine is hot, only open it when the engine is cold to fill the engine coolant.
- 3. Reservoir tank: check the coolant level when engine is cold, fill it to the Max-line when is lower than the Min-line with distilled water mixed with engine coolant only!



TIRE

To secure the best performance & extend life-span, please pay your attention to the following:

1.TIRE PRESSURE

Be sure that tire pressure in accordance with the standard pressure.

NOTE:

The inside temperature of tire must be even to outside or else pressure need to be adjusted. Besides the factor of loading, weight even cruising speed should take into consideration before adjusting.

The normal tire pressure:

Front: 2.0kg/cm² Rear: 2.0kg/cm²

2.SIMPLE CHECK:

Check the tire appearance before riding. Please ask your dealer for repairing or replacing if the appearance has been detected significant worn out or stabbed by nails, or glass.

3.INSPECTION FOR THE DEPTH OF THE TIRE GROOVE:

The appearance will become slippery due to significant worn out dusty or wet road riding. Please replace the tire if the depth is less than 0.8mm, see the following picture for reference.



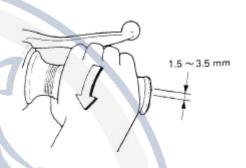
THROTTLE GRIP

- Turn the grip and check the clearance & operation situation.
- Make sure the grip will automatically return to the original position.

Ask your dealers for adjusting advice if necessary.

LAMPS & SIGNAL LIGHTS

Make sure the front lamp, rear lamp, brake lamp, turn signal lamp, tail lamp and all other indicator lights working well.



SWITCHES

Make sure the switch of head lamp, turn signal lamp, brake lamp, horn, start button, and over take lamp working well.

FUEL

Be sure sufficient fuel in tank

Tank capacity: 7.5 L

CAUTION:

- 1. Please fill the unleaded gas if your scooter is equipped with catalyster.
- 2. Do not fill up the gas over the neck of gas entrance, otherwise it will be spilling out due to the hot temperature.
- 3. It may cause inflammable if gas is split onto the engine or muffler.

CATALYSTER (OPTIONAL DEVICE)

Catalyst device is designed for decreasing air pollution from exhaust system and it is mounted inside the muffler.



- 1. Make sure to park your scooter away from flammable material, pedestrian or child to avoid danger due to yielding hot from muffler cover.
- 2. Don't try to use any fuel if it is not unleaded gas.
- 3. Don't try to turn off the main switch when riding.
- 4. Don't try to ride, idle or stop on the surface of inflammable.
- 5. Please keep your engine in good function all the time, otherwise high temperature will yield from catalyst device due to short circuit ignition, or fuel system working abnormal.
- 6. Please periodically maintain your scooter to ensure exhaust control system and catalyst device working well.

NOTATION FOR OPERATION & RIDING

- 1. Please make sure you are 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 due to potential gas, threat from poisonous exhaust amassed.
- 3. Please be noted the side stand must be withdrawn from the ground before riding, otherwise dangerous situation may occur due to your ignore.

STARTING ENGINE

- 1. Turn the main switch to "O"
- 2. When the throttle is totally loosed, hold the brake lever and push the start button, or use the kick starter to start the engine.

CAUTION:

If the engine can't be started, you should loose the start button to avoid losing significant electric power.



Please do not push the button over 5 seconds per each time. Try kick starter to start the engine if the start button is not working properly.

WARMING UP THE ENGINE

To protect the engine, please warm up the engine 1 3 minutes before riding. Do not immediately accelerate when the engine is cold.

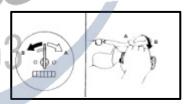
NOTE:

Please read the instruction "engine initial run-in" page26 before initial riding.



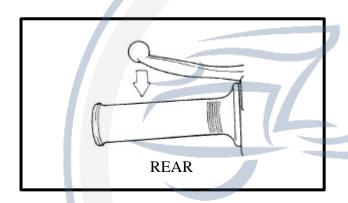
- Scooter riding (after warning up the engine):
 - 1. Hold the brake lever and push down the central stand.
 - 2. Adjust the angle of rear view mirrors within visible field.
 - 3. Try the function of signal light before riding.
 - 4. Turn the throttle grip gradually then close the signal light during riding.
- Accelerating (throttling):

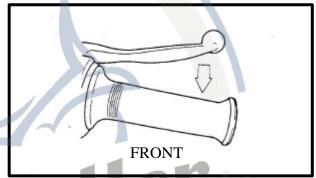
Use the throttle grip control your cruise turning it to wards your side will speed up, and reversing it will slow down.



BRAKE OPERATION

- 1. Release the throttle grip.
- 2. Press front and rear brake levers gradually.





NOTE:

- 1. Sudden stop will cause sliding or falling down.
- 2. Use the braking carefully while you are turning, improper use of brake may cause sliding.
- 3. Slow down the speed when riding on the iron plate, railway track, wet road.
- 4. Braking on the wet road is difficult.
- 5. Slow down the speed when sloping down.

ENGINE INITIAL RUN-IN

0~1,000 km riding will be the critical period regarding scooter life span. The new engine can't afford too much loading during the first 1,000kms. Every part of the engine will be run-in to obtain the correct clearance in this period. Be sure to avoid prolonging the throttling out totally or any operation causing high temperature in the engine. Please read careful the following information.

1.0~150 km

Avoid over 1/2 throttling operation. Cool down the engine 5~10 min/ hour. Do not cruise by constant speed for riding.

2.150~500 km

Avoid over 1/2 throttling operation for long riding.

3. 500~1,000 km

Avoid over 3/4 throttling operation.

NOTE:

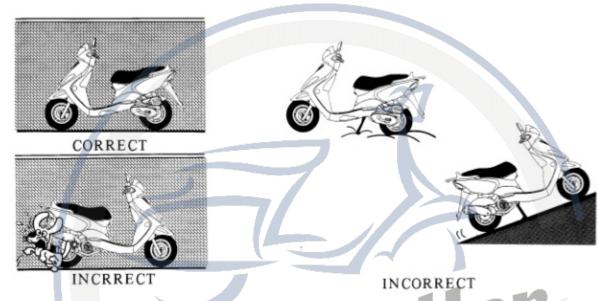
Change gear & engine oil after 300 km.

4. OVER 1,000 KM

Avoid full throttling in a long riding.

NOTE:

Please contact your dealers if any problem takes place during above periods.



PARKING:

Turn off the engine and pull out the key when parking the scooter.

NOTE:

1. Please park your scooter away from the child & pedestrians if the muffler is hot. Do not park your scooter on a slop or soft ground to avoid falling down.

2. This scooter is optionally equipped with side stand safety switch, whenever you park it with side stand, then the engine can not be started for your safety.

PERIODICAL MAINTENANCE

proper maintenance interval.

To secure the most safe & effective performance, please check, adjust and lubricate your scooter periodically. Periodical maintenance and lubrication should be acknowledge as an important instruction.

Meanwhile, please pay your attention to the environment, climate, geography and riding status in order to set up a



NOTE:

This scooter is designed to be riding on normal paved road. If under a dirt & wet condition, please clean the air-cleaner frequently, otherwise the engine will be worn out quickly.

If you are not familiar with the inspection & maintenance, please contact to your dealers.

PERIODICAL MAINTENANCE TABLE

In order to achieve safe riding, good performance and reduce pollution, please execute the recommended maintenance accordingly.

			MONTHS/DISTANCE(IN KM)FOR CHECKING						
Item	Model 2T or 4T	Checking Content	1 or	3 or	6 or	9 or	12 or	15 or	18 or
	21 01 41		300 km	2500k	5000k	7500k	10000k	12500k	15000k
Engine oil	2T	Add		According to Oil warning light					
Engine oil*	4T	M2-125/150:800cc, total 1000cc			Replace	e it per	1000km		
		M2-250:900CC, total 1,100cc							
Oil Filter	M2-125/150	Replace		Clean it	per 50001	km or re	eplace it i	f require	d
Coarse oil filter* (on	4T								
oil		Clean or replace it if necessary		Clean it	per 3000	km or r	eplace it	if requir	ed
draining bolt)									
Air cleaner	ALL	Clean or replace it if necessary							
Air filter	ALL	Clean or replace it if required							
Gear oil*	ALL	M2-125/150:90cc, total 110 cc			Å		-		
		M2-250:180cc, total 200cc.							
Cooling water, radiator	M2-250	Leaking check and clean the				7		9	
hose	only	radiator if necessary							
Disk & drum brake	ALL	Leaking and function check							
Clutch shoes*	ALL	Check or replace it if necessary							
Rear brake arm	ALL	Function check and adjustment))				
Tires	ALL	Worn-out check or replace it if		7	5	1			
		necessary	- 54	. 14	1Ju				
Wheel bearing*	ALL	Fasten tightly if loosen	cell	. 19					
Front fork*	ALL	Leaking and function check	, .						
Steering head bearing*	ALL	Check looseness. Adjust it if							
		required							

	Model		MONTHS/DISTANCE(IN KM)FOR CHECKING						
Item	2T or 4T	Checking Content	1 or 300 km	3 or 2500k	6 or 5000k	9 or 7500k	12 or 10000k	15 or 12500k	18 or 15000k
Rear absorber*	ALL	Leaking and function check							
Main/Side Stand	ALL	Function check or replace it if required		27					
Nuts, bolts, fasteners	ALL	Tighten it if required		7					
Battery	ALL	Make sure that the voltage stayed over 12.8V. Recharge the battery it required. Clear the poles.							
Valve gap*	4T	M2-125/150:0.08mm/ IN&EX M2-250:0.10mm/ IN&EX			Adjust it	when n	ecessary		
Carbon cleaning *	2Т	Clean combustion carbon when engine output reduced							
Spark plug*	ALL	Clear or replace if required							
V belt*	ALL	Worn out check or replace if necessary.				Α	9 1	Α	
Fuel feeding system*	ALL	Crack and blockage check. Replace it if necessary.				7	_OU	2	
Engine idle speed*	ALL	2T engine: 1900±100 rpm 4T engine: 1700±100 rpm			5				
Carburetor idle A/F Adjustment*	ALL	Check and adjust referring to CO/HC Percentage.)	4.6	000				

- NOTE:

 1. Items with "*" mark indicate our recommendation to have it done by PGO dealer.
- 2. "A" denotes that function check or replace it when the engine performance reduces significantly.

NOTE 1:

For 4T engine, the engine oil shall be changed completely after run-in period 300km or one month later. This can make sure the engine runs smoothly.

NOTE 2:

The exchange of brake fluid

- 1. After disassembling of brake main cylinder or caliper, do change the new fluid.
- 2. Check the fluid level often, Refill if necessary.
- 3. Change the oil seal of main cylinder and caliper every two years.
- 4. Change the brake fluid hose every four years.

NOTE 3: Available for M2-250 water-cooled engine only

- 1. Check the clamping and hoses of radiator system initially 1,000 kilometers and per 10,000 kilometers for anti-leaking proof..
- 2. Replace the engine coolant every year, or every 10,000 kilometers.



Exhaust control system (only be valid for the bike equipped catalyst):

Catalyster will not be possible to be withdrawn individual, the only you have to do is to maintain fuel, ignition, intake/exhaust system periodically.

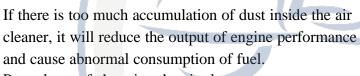
- 1. Maintenance procedure of air clearer (see page 33).
- 2. Spark plug's checking: please repair or replace if spark plug is dirty.
- 3. Fuel system's checking: please repair or replace if fuel pipe is jammed or broken.
- 4. Muffler's checking: please fix tightly once or renew a gasket if it is leaking.
- 5. Idle rpm's checking: please fix tightly once or renew a gasket if throttle cable.
- 6. Exhaust density checking while idle: please left the job to any service center of anti-pollution inspection for carburetor adjusting.



THE AIR-CLEANER

4T Engine(125/150/250 cc)





Procedures of changing the air element:

- 1. Take off the cover of filter.
- 2. Draw the core of filter.
- 3. Clean and dry by air compressor, or replace it if necessary.
- 4. Put the cover back carefully to make sure fitted to the cover without leakage.

NOTE: Please do not start the engine before the air-cleaner is assembled, otherwise the piston/main case will be badly worn out.



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 M2-125/150- Engine C7HSA(NGK); CR7HSA for EEC specification

For M2-250- Engine DPR7EA9(NGK) for EEC specification

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.

Toroue: 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 300km ride, then it is recommended to change the gear oil every 2,500 3,000 kms.

• Regular changing oil :SAE 140

BRAKE ADJUSTM ENT

The clearance of lever

(a) Front brake: 10~20 mm(b) Rear brake: 10~20 mmAdjust the nut if necessary.

NOTE:

Please contact to PGO dealer if the clearance is incorrect.

Rear brake check (only for D rum brake model)

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 indicator almost reach the disk, please ask your dealers to change it.

NOTE: If the brake area is wet (getting water), the brake will be out of order and jeopardizing 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.
- 3. Refill same kind of brake oil. Mixing with different oils will yield a bad 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 make the air be obstructed.
- 5.Brake oil could reode the painting surface and plastic parts. If any oil were spilled out, please clean it immediately.
- 6.If the brake oil can't be refilled to the standard level, please check with your dealers.

FRONT FORK CHECK NOTE:

In order to avoid falling down, please park you scooter firmly will be safe.

1.E yes checking:

If any scratched, broken or leaking inside the pipe by vision.

2.Function check:

Park the scooter on flat place.

- (A) Hold the handle and keep the scooter in vertical position, and then hold the front brake lever.
- (B) Move up & down the front fork for several times.

NOTE:

If found the front fork is not smooth or broke, please contact your dealers.



2.FUNCTION CHECK

FUSE REPLACEMENT

- 1. The fuse is located beside the battery.
- 2. Open the battery cover.
- 3. If the fuse is burned out, turn off the main switch and related switches, replace a correct fuse, then turn on and check the circuit function, please contact with your dealers if the problem remains.

NOTE:

Do not use a higher ampere fuse than the standard one. A different (abnormal) fuse will damage circuit system and may cause fire.

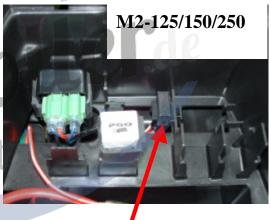
BATTERY

The battery is in free-maintenance type (MF), so it won't be necessary to check or refill the liquid. If the liquid is leaking, please contact with your dealers A.S.A.P.

NOTE:

Please do not try to take off the sealed rubber even when charging the battery , that will damage your battery.





SPECIFICATIONS

TYPE	M2-50	M2-125	M2-150BA	M2-150BB	M2-250
DIMENSION			27		
overall length	1855mm	1855mm	1855mm	1855mm	1855mm
overall width	730mm	730mm	730mm	730mm	730mm
overall height	1170mm	1170mm	1170mm	1170mm	1170mm
axles distance	1365 mm	1365 mm	1365 mm	1365 mm	1365 mm
DRY WEIGHT	105KG	130KG	132KG	132KG	132KG
ENGINE					
type	2 stroke	4stroke	4stroke	4stroke	4stroke
model no.	P2	C1M	C5M	F3	SH50D
cooling	forced air cooling		forced air cooling	forced air cooling	water cooling
cylinder array	single	single	single	single	single
displacement	49 c.c	124.9 c.c	150.1 c.c	150.1 c.c	249.1c.c
start system	electric and kick	electric and kick	electric and kick	electric and kick	electric and kick
lubrication system	separated pump	compress spray	compress spray	compress spray	compress spray
lubricant	SAE30 (FC class)	SAE15W40	SAE15W40	SAE15W40	SAE15W40
capacity	1.0 L	1.0 L	1.0 L		1.1 L
replace		0.8L	0.8L	0.8L	0.9L
spark plug	BP7HS(NGK)	C7HSA(NGK)	C7HSA(NGK)	C7E(NGK)	DPR7EA9(NGK)
Valve Q' ty IN	NA	1	1	2	1
EX		1	1	2	1

SPECIFICATIONS

TYPE	$\mathbf{M2-50}$	M2-125	M2-150BA	M2-150BB	M2-250	
clutch type	DRY TYPE CVT	DRY TYPE	DRY TYPE CVT	DRY TYPE CVT	DRY TYPE CV	
		CVT				
gear shift type	AUTOMATIC (V	AUTOMATIC	AUTOMATIC (V	AUTOMATIC (V	AUTOMATIC (V	
	BELT)	(V BELT)	BELT)	BELT)	BELT)	
GEAR OIL						
model	SAE 140	SAE 140	SAE 140	SAE 140	SAE 140	
min. volume	90cc	90cc	90cc	90cc	180cc	
total volume	110cc	110cc	110cc	110cc	200cc	
AIR CLEANER	SPONGE	PAPER	PAPER	PAPER	PAPER	
		ELEMENT	ELEMENT	ELEMENT	ELEMENT	
FUEL:					n	
gasoline	UNLEADED	UNLEADED	UNLEADED	UNLEADED	UNLEADED	
capacity of tank	ONLY	ONLY	ONLY	ONLY	ONLY	
	7.5L	7.5L	7.5L	7.5L	7.5L	
TIRE				- 0		
size (front)	120/70-12	120/60-13	120/60-13	120/60-13	120/60-13	
(rear)	130/70-12	130/60-13	130/60-13	130/60-13	140/70-13	

SPECIFICATIONS

TYPE	M2-50	M2-125	M2-150BA	M2-150BB	M2-250	
ELECTRIC						
SYSTEM	C.D.I	C.D.I	C.D.I	C.D.I	C.D.I	
ignition system	AC FLYWHEEL	AC	AC FLYWHEEL	AC FLYWHEEL	AC FLYWHEEL	
generator system	MAGNET	FLYWHEEL	MAGNET	MAGNET	MAGNET	
		MAGNET				
BATTERY TYPE	YTX4L-BS	YTX7L-BS	YTX7L-BS	YTX9L-BS	YTX12L-BS	
capacity	12V 3AH	12V 6AH	12V 6AH	12V 8AH	12V 10AH	
BULB	<i>P</i>					
VOL / WATT * Q' TY						
head lamp (HI /LO)	12V 35W * 1					
rear lamp/ stop lamp	21W * 1/					
	12V 3W * 4					
signal lamp	12V 10W * 4					
speedometer indicator	12V 1.7W * 2					
high beam indicator	12V 1.7W * 1					
signal indicator	12V 1.7W * 2					
oil warning indicator	12V 1.7W * 1	NA	NA	NA	NA	

Periodic Maintenance Record

Plan km	Actual km	Date	Dealer Sign.	Plan km	Actual km	Date	Dealer Sign.
300				14,000			
1,000				15,000	7		
2,000				16,000			
3,000				17,000			
4,000			/	18,000			
5,000				19,000			
6,000		7		20,000			
7,000	_			21,000			
8,000				22,000	. 4		
9,000				23,000			0
10,000				24,000			
11,000			101	25,000			
12,000				26,000			
13,000			U	27,000	4009	2 - 4	

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

