



# OWNER'S MANUAL



PAZ200 -1

PACIFIC RIM INTERNATIONAL WEST INC.

## FOREWORD

Thank you for purchasing 200cc Jeep Manual.

This manual covers the main data, basic structure, main operation steps, adjustment, use, maintenance, detection and troubleshooting, and warning matters. It helps you familiarize yourself with all the necessary skills you have. This way you can use your vehicle completely, best, and with minimal trouble, so that it has a long service life. If the product is often modified, it will cause the actual situation to be inconsistent with the instructions and will bring unpredictable danger to your use. For this reason, please do not modify the vehicle and replace the spare parts of the non-original manufacturer. The manufacturer will not bear all safety accidents and economic losses caused by your modification and replacement of non-original spare parts.

## SAFE DRIVING OF VEHICLES

### Warning!

For your safety and better use of the vehicle, please read this instruction before using it.

For use on roads, this type of vehicle is designed to operate only on horizontal roads without obstacles.

Under the influence of alcohol or drugs, do not drive this car. Will affect judgment and outcome.

Maintain a safe distance between vehicles and other vehicles.

Don't let children drive and play with cars.

Please use your vehicle without violating the traffic laws and regulations.

Do not run the engine in a closed area. The exhaust gas contains toxic carbon monoxide, which can endanger people's physical and mental health and even poison death.

During driving, do not touch the exhaust muffler, engine, etc. to avoid scald, because it is very hot.

Do not carry goods that affect the safety of driving, the curve to slow down.

Do not start a motorcycle in a flammable and explosive environment.

## PROTECTIVE THINGS

Most of the accidental deaths were caused by head injuries. Helmet, mask, protective clothing, seat belt.

During the driving process, the shell of the engine and exhaust system is very hot, and after the engine stops, it will maintain a high temperature for a period of time. Be careful not to touch the engine and exhaust system because it's hot. The clothes you wear completely block your legs.

Do not wear loose clothes. You may hang on to the steering wheel, gear lever, pedal or wheel. This will affect the safety of driving.

## REFIT

## Warning!

It may be dangerous or illegal to modify a mini-jeep or remove original parts. Comply with national and local equipment regulations.

## ACCESSORIES

Our company specially designed and tested the accessories we used on the jeep. Since our company will not test accessories produced by other companies, you are responsible for the selection, installation and use of other accessories. The factory does not take all the consequences of your modification and use of non-genuine accessories. The following criteria have always been followed:

1. Check the accessories carefully to ensure that they are in good condition. Reduce ground clearance and tilt angles, or limit suspension trips, steering trips, or control operations.
2. Accessories may hold up hand or foot operation control, resulting in increased response time in emergency situations.
3. Do not add electrical equipment that exceeds the capacity of the vehicle's electrical system.

## SPECIFICATIONS

Model		PAZ 200 -1	
Length	2610mm	Fuel tank cap	13L
Width	1450mm	Type	4-stroke,single cylinder with Air-cooled
Height	1770mm	Rated Power	6.8kW/8000r/min
Ground clearance	190mm	Rated Torque	9.6N·m/5500r/min
Wheel base	1440mm	Idle speed	(1500±100)r/min
Dry weight	325kg	Start mode	Electric
Steering bar angle	≥30	Clutch	Oil dipped in pieces
Max speed	≥50km/h	Spark plug type	CR7HSA
Front brake type	Disc-brake	Engine oil cap	0.9L

Rear brake type	Disc-brake	Engine oil	15W/40-SF
Type size (front)	25X8-12	Type size (rear)	25X10-12
Displacement	170.9ml	Oil pump	Inner-outer rotor type
Compression ratio	10:1	Magneto	Permanent magnetic
Ignition mode	ECU	Lubrication	Press/Splash

#### VEHICLES CODE REGISTRATION

Please fill in your mini Jeep ID and engine code below. They will be used to order spare parts and to locate vehicles when they are stolen.

Note!

The frame number is stamped on the front transverse beam.

The engine's code is printed on the lower left side of the crankcase.

#### IGNITION SWITCH

The ignition switch is located in front of the body.

#### FUEL and FUEL TANK

Fuel selection

Fuel is a key factor in determining engine exhaust emissions.

The fuel selected must be 90 or higher for low-lead gasoline.

The tank capacity is 4 liters.

Warning!

Gasoline is extremely flammable and explosive under certain conditions. When the engine stopped working, it refueled in a well-ventilated place.

Do not smoke or spark in the petrol storage area or fuel tank area.

Before refueling, you must filter the fuel.

Be careful not to sprinkle fuel when refueling. Leaked fuel vapor may be ignited. Please do not start the engine in a flammable and explosive environment.

Avoid prolonged contact with the skin or breathing gasoline vapor.

Don't let the baby touch the gas.

## STEERING WHEEL CONTROL

Emergency switch.

Under normal circumstances, the switch is in the middle position; To stop the engine, switch left or right.

Start button

Press the button to start the engine while the car is braking.

Note!

The inexperienced rider had better set the maximum speed lower to avoid accidents.

## ENGINE OIL

The quality of engine oil plays a crucial role in determining engine performance and service life. Engine oil must be selected in accordance with the following regulations. Other oils are not allowed to be used.

Recommended engine oil: gasoline engine oil rating is sa15w/40se or se, SF, sc.

The vehicle has been equipped with an engine oil grade SAE 15w/40-see before delivery, and the lubricant is only suitable for the temperature range of +40 to -10. If replaced with other oils, alternatives must be technically the same in all respects. Viscosity varies with region and temperature, so lubricants must be selected according to our recommendations. If 15w/40se of gasoline engine oil can't be obtained when needed, HQB-10 gasoline engine oil (or HQB-6 gasoline engine oil is available in areas with temperatures below -10 ° C).

Before replacing the oil, drain all the oil left in the crankcase, clean the interior with clean kerosene, and fill in the new oil.

### Warning!

When the oil is insufficient, the start-up opportunity causes serious damage to the engine.

### TIRE

Proper air pressure will provide maximum stability, ride comfort and ensure tire life.

Check tire pressure regularly and adjust if necessary.

Select suitable replacement tyres according to the specifications shown in Table 1.

Pressure(kPa)	Front:150	Rear:205
Tyre size	Front: 25X8-12	Rear: 25X10-12

### Note!

1. When it's cold, check the pressure on the tires before you ride.
2. Check tires for incisions, embedded nails or other sharp objects.
3. Check the rim for indentation or deformation.
4. Get your dealer to replace the damaged tire or punctured inner tube.

Warning: Do not attempt to repair a damaged Tyre or inner Tyre, otherwise wheel balance and Tyre reliability may be compromised.

5. Tire inflation can't be greater than 150 KPA, especially for used tires. The air pressure is too high and it is easy to blow up tires and safety accidents occur.
6. Improper tire expansion can cause abnormal tread wear and cause safety hazards. Tire pressure below rating may cause the Tyre to slide on the ground or fall off the edge, or even to lose control of the vehicle.
7. Tire operation is hazardous when severely worn and can adversely affect traction and handling.
8. The use of tyres other than those listed in table 1 may adversely affect treatment.

9. Replace the Tyres when the tread depth in the middle of the tyres reach the limit in Table 2 below.

Tread depth limits	
Front tyre:2.0mm	Rear tyre :2.0mm

## EFI SYSTEM

### I. Product profile

#### 1. Product component diagram



ECU



Throttle & intake tube assembly



Oil pump assembly



Pressure sensor



Idle air-filling valve



TPS



Spray nozzle



Oxygen sensor



MAP & Temperature sensor



Subcable

## 2. Function Description

### ECU



The control and management system of the electric jet system is the core part of the entire electric jet. The signals of various sensors (throttle position, engine temperature, intake pressure, speed, crankshaft position, etc.) are used as input signals, and after calculation and comparison, Determine the output signal (e.g. time of injection, pulse width of injection, filling time and ignition time).

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### Throttle & intake tube assembly



It is composed of intake pipe, TPS, idle filling valve and air-filling valve hose. The role of idle filling valve provides different intake quantities for ECU to control cold start and maintain idle speed; TPS functions to provide suitable additional fuel injection volume for emergency fuel Gates while achieving full-load fuel injection control; Throttle function provides the driver with a controlled intake of air to control the engine load.

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### Oil pump assembly (2 types)



Bottom type (small filter)



Side type (large filter)

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### Idle air-filling valve



Provides different intake capacity for ECU control of cold start process control and idle speed.

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TPS



Throttle position sensor, Provide suitable additional fuel injection for rapid acceleration, and achieve full load oil injection control.

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Spray nozzle



Provide an appropriate amount of fuel for the engine.

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Oxygen sensor



The oxygen content in the exhaust gas is obtained, and the concentration of the oil is estimated to achieve Lambda closed-loop control to reduce the generation of engine combustion pollutants. Aerobic sensors are called closed-loop systems, and anaerobic sensors are called open-loop systems.

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MAP (Manifold Absolute Pressure Sensor) & Temperature sensor



ECU controls the cold start process control and temperature compensation for the intake volume.

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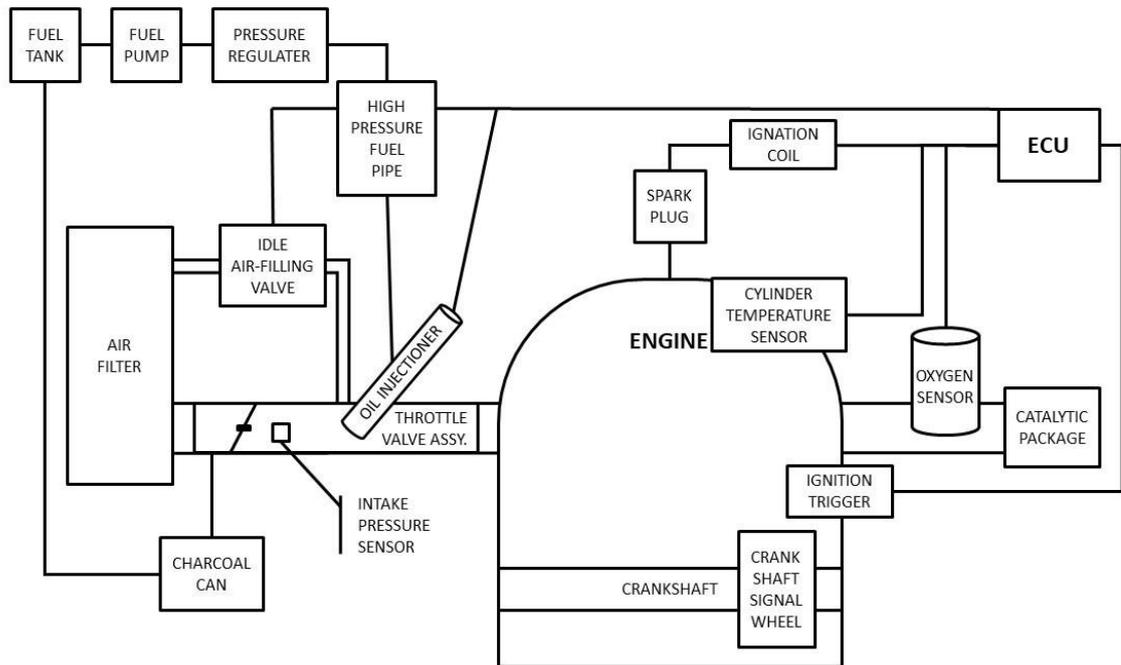
Subcable



The wire raw material is a special line for the German standard thin-walled car engine (FLRY-B 0.5 square 16/20, standard DIN 7255-6 / 1996, wear resistant thin-walled), and the plug-in is waterproof, durable connection is reliable,

Insulated rubber tape rubber tube is made by winding.

II. Principles of the product



As shown in the figure, the motorcycle EFI system mainly includes ECU, oil supply system, ignition system, throttle & intake tube assembly, crankshaft signal system, cylinder temperature sensor, intake pressure sensor, oxygen sensor (optional) and wire beam. Among them, the throttle valve and intake pipe assembly include the throttle valve body, TPS (optional), MAP & idle filling valve.

Working principle: the electric door lock opens, the oil pump works. Click on the start button, start the motor work, the engine gives the trigger signal. The trigger signal enters the ECU, which indicates that the nozzle is sprayed with oil and the high-pressure package is ignited according to the engine temperature, pressure signal and throttle opening.

## OPERATIONAL GUIDELINES PRE-VEHICLE

### INSPECTION

Warning!

Failure to pre-check may result in serious casualties or damage to equipment.

Check your mini-jeep every day before you drive. The items listed here will only take a few minutes to check, and in the long run they will save time, money and life.

Engine oil level: If needed, add engine oil. Check the flow of oil.

Quantity of fuel: Fuel tanks of fuel grade may be used if necessary. Check for leaks.

Front and rear brake inspection: operation, adjust looseness when necessary.

Tire inspection: observation of surface and pressure.

Throttle operation inspection: Stable opening and complete closing at all steering positions; Check throttle grip tightness and throttle cable lubrication and connection. Quick check all nuts, screws and bolts are firm.

Steering system inspection: its smoothness and reliability. Correct any inconsistencies before you drive. If you can't correct these problems, please contact your dealer for help.

#### INTENANCE CHART

I: Inspect L: Lubricate C: Clean R: Replace

Maintenance period Items	Odometer (km)						
	750	3000	6000	9000	12000	15000	Everyday check before riding
**Engine Oil	R	R	R	R	R	R	I
**Spark Plug		I	R	I	R	I	
*Engine Bolt		I	I	I	I	I	
*Gear Oil		R	R	R	R	R	
*Air Cleaner		C	R	C	R	C	
*Drive Chain		I/L	I/L	I/L	I/L	I/L	
*EFI Comp.		I	I	I	I	I	
Throttle Operation		I	I	I	I	I	
Brake shoes/Pad Wear		I	I	I	I	I	
Brake System		I	I	I	I	I	
Brake Light Switch		I	I	I	I	I	
Brake Liquid		I	I	I	I	I	
Suspension		I	I	I	I	I	

Nuts, Bolts, Fasteners		I	I	I	I	I	
Wheel/Tire		I	I	I	I	I	

## START THE ENGINE

The following appropriate commencement procedures are always followed.

### Warning!

Do not run the engine in a closed area. Exhaust emissions contain toxic carbon monoxide (Co) gases that can cause loss of consciousness or even death.

Startup is activated by the boot button.

1. Insert the ignition key into the ignition switch and then turn to turn on position.
2. Set the emergency switch to "turn on".
3. Press the start button, and slightly turn the throttle grip to start the engine. After the engine starts, release the start button.

Note: Do not use the electric starter for more than 5 seconds each time. Release the boot button for about 10 seconds before pressing it again.

4. Keep the throttle slightly open when starting and preheating the engine.
5. Be sure to Preheat the engine before driving.

### Note!

A quick and complete opening or closing of the throttle may cause the vehicle to suddenly move forward, causing it to lose control. In the boot procedure, press the boot button to do 4-5 steps.

## START RUNNING

Pay special attention to your driving in the first two weeks. Being familiar with the performance of the vehicle will help ensure the safety of your vehicle in the future.

During this period, avoid full throttle driving and overloading.

Note!

Must carry on the maintenance according to the maintenance plan, keep the vehicle in good condition, can make the engine service life significantly longer. DRIVING

Warning!

1. Before you drive, check the safety of the vehicle and check that the front and rear braking of the vehicle is normal.
2. New cars can't drive at high speed. Long-term high speed driving of new cars will affect the service life of vehicles.

Note: Driving with only one hand can cause the vehicle to lose control.

3. Slow down on uneven roads and corners.
4. Slowly open the throttle and move the vehicle forward.
5. Slow down the vehicle, reduce the throttle when braking, coordinate the throttle and brake, and slow down smoothly.

Note: Both front and rear brakes should be effective at the same time, and should not use too strong force to brake the wheel, otherwise the vehicle will be difficult to control and an accident will occur.

PARKING

Close the throttle and brake while slowing the vehicle until it stops.

Turn off the ignition key and pull it out as soon as the engine stops.

Pull up the handbrake.

INSPECTIONS & REPLACEMENT OF ENGINE OIL

Check engine oil level, oil cap, oil gauge.

Check engine oil level before driving every time.

The level must be kept between the highest and lowest mark on the oil ruler.

1. Start the engine and let it idle for a few minutes.
2. Stop the engine and park on the flat ground.
3. After a few minutes, remove the oil cover and oil ruler, clean it up, and re-insert the oil ruler. The oil level shall be between the highest and lowest mark on the oil gauge.

#### Replacement of oil

Engine oil quality is the main factor that affects engine service life. Replacement of oil in accordance with the required maintenance plan.

1. The oil in the crankcase is completely discharged.
2. Clean crankcase with clean kerosene

#### Note!

When the oil is insufficient, the launch opportunity causes serious damage to the engine.

When running under very dusty conditions, oil changes should be more frequent than maintenance plans.

Please treat used oil in an environmentally friendly manner. We suggest you put it in a sealed container and send it to your local recycling center or service station for recycling. Don't throw it into the garbage, nor dump it on the ground or in the gutter.

#### SPARK PLUG

Option 0.6-0.7mm, Recommendation: CR7HSA

#### Inspection and replacement

1. Open the lid of the spark plug from the spark plug.

2. Clear the dirt around the spark plug. Remove the spark plug using the plug wrench in the toolbox.
3. Check electrodes and central porcelain for dirt deposition, erosion, or carbon pollution. If corrosion or fouling is serious, replace the plug. Use plug cleaner and wire brush to clean up the carbon and dirt.
4. Use a wire plug gauge to check the spark plug gap. If you need to adjust, be careful to bend the side electrodes.

The spark plug gap should be 0.6-0.7mm. Ensure plug gaskets are in good condition.

5. Connect with a plug washer. Put the spark plug on first to prevent the thread from crossing. Then tighten with a spark plug wrench.
6. Re-install spark plug cap.
  - ① Side electrode
  - ② Central electrode

#### AIR FILTER

The vehicle should be driven at least once every 30 days. When riding in unusually humid or dusty places, maintenance should be more frequent.

Find out more about your dealer.

1. Remove the air filter from the frame.
2. Remove and remove the filter element.
3. Cleans the filter element in a clean, non-flammable, high flash solvent and lets it dry.

Warning: Do not use gasoline or low-flash solvent to clean filter elements, otherwise it will cause fire or explosion.

4. Soak it in 15w/40qe gasoline engine oil until saturated, and then squeeze out excess oil.
5. Clean the inside and outside of the air filter space.
6. Install dismantled components in reverse order.

Note!

It is forbidden to start the engine without the air filter core to prevent premature wear of the piston and cylinder.

Ensure that the filter core of the air filter is intact.

When cleaning the vehicle, prevent the filter core of the air filter from soaking water.

Check leakage along the air supply line

Periodically check air leaks on the air supply line and repair or replace related components to ensure normal air supply.

Idling operation

The engine must be at normal operating temperature so that idling can be adjusted accurately.

Note!

Do not attempt to compensate for other system failures by adjusting idling. Find your dealer to adjust the carburetor regularly.

1. Heat up the engine.
2. Connect the tachometer to the engine (remote control can be used). Turning the throttle stop screw clockwise (arrow A direction) will increase idle speed, counterclockwise (arrow B direction) will decrease.
3. When the engine is not idle or running at a reduced speed, set the throttle stop screw in the middle of the two limit positions to help mix air and fuel.
4. Run the engine again. Adjust the throttle stop screw if necessary.

Note!

Since the carburetor is a precision instrument, do not dismantle it without professional knowledge.

Warning!

The balance pipe of the carburetor should be constantly inspected to ensure that there is no dust and other impurities inside it, otherwise accidents may occur.

Front and rear hydraulic disc braking

The Mini jeep is equipped with a set of "first two and second" single pump disc braking devices. The front and rear hydraulic disc braking is controlled by the brake switch synchronization.

## BRAKE SWITCH

Note!

Ensure that after the final tightening adjustment, the curve slots in the adjusting nut are located in the brake pin. If this adjustment is still unsatisfactory, please contact your dealer for help.

Check the brake system

Every time you drive, check the brake system.

1. Check if the main brake pump has enough brake fluid
2. Check for leakage in the system
3. Check for cracks in brake hose and main pump
4. Check the brake disc for wear and tear
5. Check if the brake rod is loose properly

Note!

The hydraulic disc brake is designed to work under high pressure.

For safety and reliability, the service life of brake hoses, main pumps and brake fluids must not exceed the limits specified in the manual.

If the hydraulic disc brake system needs to be maintained or repaired, please contact the dealer.

If you feel soft when you operate the brake lever, that means there is air inside the brake system. In this case, the air should be discharged

from the braking system before driving, otherwise the braking performance will be greatly reduced and even cause an accident. Please call your dealer.

#### Brake fluid

Pay attention to check the brake fluid of the main pump under the seat and add the specified brake fluid if necessary. The braking fluid level drops when the brake is worn. Brake should be checked regularly.

#### Warning!

Brake fluid is strongly irritating and avoids contact with the skin and eyes. Once contacted, rinse thoroughly with water and seek medical attention in a timely manner.

Keep the child away from the brake fluid.

The braking fluid used in the braking system is non-oil braking fluid No. 4604. Never mix with other brake fluids containing Silicon oil, which can seriously damage the braking system.

#### Note!

The use of second-hand brake fluids or brake fluids placed in open containers is prohibited.

Do not use a long-term storage brake fluid because it contains moisture inhaled from the air.

Handle brake fluid carefully because it can damage plastic and paint surfaces.

#### EXHAUST MUFFLER

Regular removal of carbon from the exhaust pipe; Check for cracks and washers inside the exhaust pipe, repair or replace if necessary.

#### BATTERY

Battery electrolytes are toxic, so don't throw them away. In accordance with national or local environmental protection rules.

## Check

The battery electrolyte level should be between the highest and lowest mark. If the battery electrolyte level is below the lowest mark, distilled water is added to the highest position.

## Note!

Before the vehicle is handed over for long-term storage, the battery is removed from the vehicle and charged and stored in a cool, dry place. If the battery remains in the mini-jeep, first disconnect the negative lead (-) from the battery terminal and then disconnect the positive lead (+). Do not touch positive and negative wires with metal objects to prevent short circuit during the above operation.

## Warning!

Batteries release volatile gases that keep them away from sparks, flames and cigarettes. It is strictly forbidden to charge and discharge in a flammable and explosive environment.

The battery contains sulfuric acid (electrolyte), which can cause serious burns when touching the skin or eyes. Wear protective clothing and a mask.

If the electrolyte touches your skin, rinse with water.

If the electrolyte enters your eye, rinse for at least 15 minutes and seek medical attention immediately.

Electrolytes are toxic. If swallowed, drink large quantities of water or milk and then drink milk containing magnesium or vegetable oil and seek medical attention.

When the battery is out of reach of the children, open the case cover, first disconnect the negative lead from the battery, then positive lead, and finally remove the battery from the positive lead.

## Self-recovered overload protector

The vehicle is equipped with a self-recovery overload protector. The protector will automatically cut off the circuit when there is a short

circuit or overload failure, and will automatically open the circuit after a few seconds when the power switch is turned on.

#### TROUBLESHOOTING

If there's a problem with the vehicle, ask your dealer for help.

#### Note!

No vehicle may be dismantled or repaired without professional knowledge.

#### CLEAN

Clean the vehicle regularly to ensure surface tightness and check for damage, wear, oil or liquid leakage.

#### Note!

High-pressure water flushing of vehicles can damage parts and paint surfaces. Avoid spraying high-pressure water in the following areas: electrical components, wheels, carburetor control, muffler outlet, fuel tank, drive chain, and seat.

#### Warning!

After cleaning the mini-jeep, the braking effect may be temporarily affected. In order to avoid accidents, the water on the brake should be dried and the brake tested before it can be exercised after ensuring that the system is normal and effective.

Lubricate the drive chain immediately after cleaning and drying the Mini jeep.