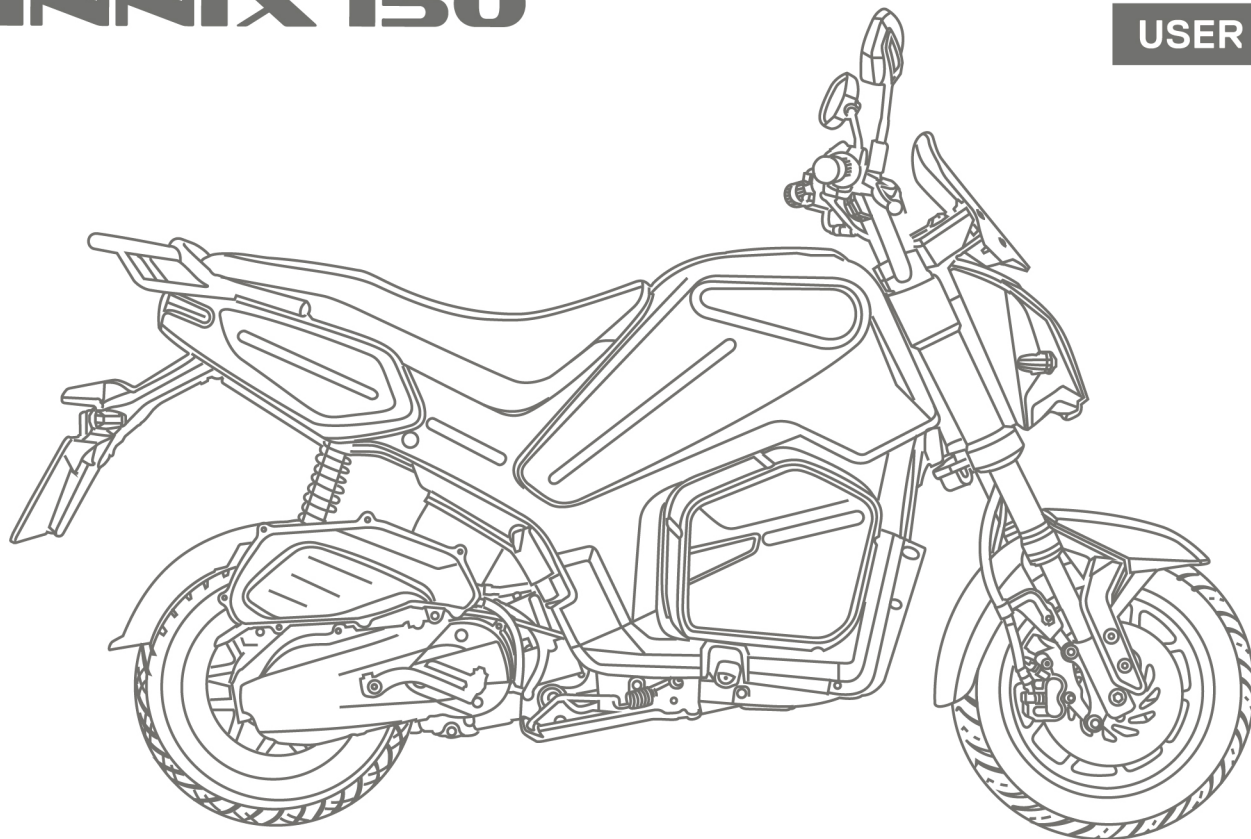


MINNIX 150

USER MANUAL



Important Attention Points

- **Driver and passenger**

This motorcycle is limited to one driver and one passenger. Never exceed the max load capacity.

For safety, avoid riding the motorcycle in extreme weather conditions and temperatures below -12°C.

- **Road condition**

Only drive on well-maintained roads.

Ensure that the safety and environmental protection labels are affixed to the storage box cover, rear carrier, and fuel tank cap. These labels should be visible before or during driving.

- **Please read the user's manual carefully**

You must pay attention to all warning sentences and paragraphs.

WARNING

Failure to follow the operating instructions in this manual may result in injury to yourself or damage to the vehicle.

ATTENTION

Consider this manual a permanent part of the vehicle. When transferring ownership, be sure to include the manual with the vehicle.

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I. Notice for Safe Driving

Rules for safe driving

1. Many traffic accidents occur because drivers fail to notice motorcyclists. Therefore, motorcyclists should make every effort to increase their visibility to other drivers.

- Wear a brightly colored or high-visibility coat with warning markings.
 - Exercise extreme caution when driving in areas with glaring light or blind spots.
2. Exercise particular caution when crossing roads, entering or exiting parking lots, and while riding in automobile lanes.
3. Never exceed the speed limit, as it may lead to an accident.
4. You must obtain a valid driver's license and be familiar with the vehicle before riding. Never lend the vehicle to someone without a driver's license or to someone who is unfamiliar with motorcycles.
5. Avoid riding on rough roads, as this can easily lead to operational failure and structural damage to the vehicle frame.
6. Perform a pre-ride inspection before riding.
7. While riding, always hold the handlebars firmly and keep your feet on the footrests.
8. Maintain a safe distance from other vehicles. Do not compete for lanes, and strictly observe local traffic regulations.

Payload

WARNING

Only place lightweight items in the storage box or other designated areas.

Do not overload the storage box and carrier; refer to table below for specific weight limits.

Deposited position	Stated weight (kg)
Carrier	5kg
Storage box	5kg

- The maximum payload for this motorcycle is 150 kg, including the combined weight of the driver, passenger, and cargo.
- Overloading the motorcycle can negatively impact its stability and performance.
- Ensure all cargo is securely tied down before riding.
- Children are not allowed on the rear shelf seat.

II. Various Parts Names and Instruction

Parts



- 1. Rearview mirror
- 5. Tail light
- 9. Seat hook
- 13. Battery location
- 17. Main stand

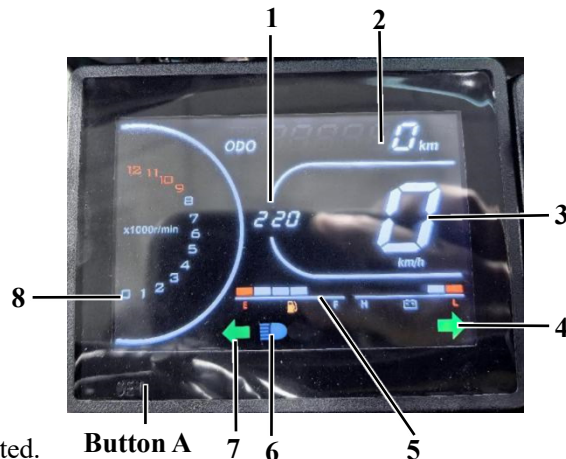
- 2. Instrument panel
- 6. Rear L&R turn signals
- 10. Headlight
- 14. Air cleaner
- 18. Ignition switch

- 3. Front and rear brakes
- 11. Rear carrier
- 15. Kick starter

- 4. Fuel tank
- 8. Side reflector
- 12. Front L&R turn signal
- 16. Side stand

Instrument panel

1. Clock: Displays the current time.
2. ODO/TRIP: ODO (odometer) displays the total distance the vehicle has traveled. TRIP (tripmeter) displays the distance traveled for a specific trip or journey.
3. Speedometer: Displays the current speed of the vehicle.
4. Right turn signal indicator: Blinks when the right turn signal is activated.
5. Fuel gauge display: Displays the current fuel level in the fuel tank. When there is only one bar remained, the low fuel warning indicator will illuminate.
6. High beam indicator: Illuminates when the high beam is activated.
7. Left turn signal indicator: Blinks when the left turn signal is activated.
8. Tachometer: Displays the engine's rotational speed in RPM (Revolutions Per Minute).



Button A

Button A: Press the button to switch the display between ODO (odometer) and TRIP (tripmeter). In TRIP mode, press and hold the button to reset the tripmeter.

Clock setting: In ODO mode, press and hold the button A for 3 seconds, and the hour digit of the clock will flash. Press the button briefly once to increase the value by 1. Press and hold the button for 3 seconds to switch to the minute setting. Press the button briefly once to increase the minute value by 1. Finally, press and hold the button for 3 seconds to save the settings. If no operation is performed within 10 seconds during the clock setting, the settings will exit without being saved.

Ignition switch

Open (🔓) — In this position, the engine can be started.

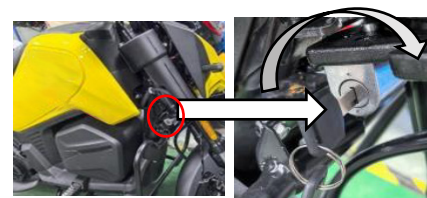
Close (🔒) — In this position, the engine cannot be started.



Steering lock

To engage the steering lock, turn the handlebars fully to the left, insert the key into the keyhole, and turn it clockwise.

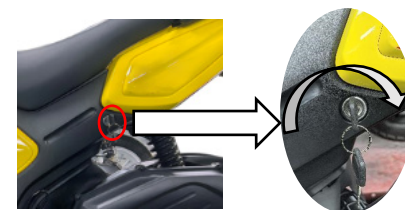
To unlock the steering, insert the key into the keyhole and turn it counterclockwise.



Seat lock

To open the seat cushion, insert the key into the keyhole and turn it clockwise.

To close the seat cushion, press it down until you hear a locking sound. Then, pull up the rear side of the cushion to ensure it is securely locked. Finally, remove the key.



Front storage box lock

To open the front storage box, insert the key into the keyhole and turn it clockwise.

To close the front storage box, press it down until you hear a locking sound. Then, pull up the rear side of the cushion to ensure it is securely locked. Finally, remove the key.



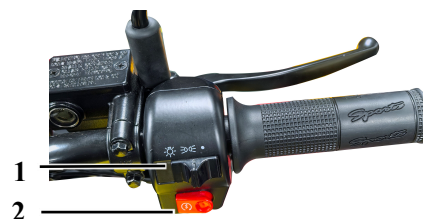
Right handlebar switch assembly

Light switch (1)

Turn the switch to the “☀” position to activate the headlights; turn the switch to the “☾☾” position to activate the instrument panel light and position lights; turn the switch to the “●” position for daytime riding.

Electric start switch (2)

Press the switch “⊗” to operate the electric start function.



Left handlebar switch assembly

Dimmer switch (1)

Turn the switch to the “☰” position to activate the high beam; turn the switch to the “☷” position to activate the low beam.

Turn signal switch (2)

Turn the switch to the “↶” position to activate the left turn signal; turn the switch to the “↷” position to activate the right turn signal; press down the switch to turn off the turn signals.

Horn switch (3) 📢

Press this switch to activate the horn.



III. Pre-ride Inspection

A pre-ride inspection for a motorcycle ensures that everything is functioning properly and helps prevent issues while riding. Here's a checklist you can use:

1. Tire condition

Check for proper tire pressure using a gauge. Inspect the tread depth and look for any visible damage or foreign objects.

2. Brakes

Test the front and rear brakes to ensure they engage smoothly and effectively. Check the brake fluid level and inspect for any leaks.

3. Oil level

Check the engine oil level and top up if necessary, using the recommended oil type.

4. Lights and indicators

Ensure that all lights (headlight, taillight) and indicators (turn signal indicator) are functioning correctly.

5. Battery

Verify that the battery is fully charged and securely mounted.

6. Fluid levels

Check other fluids such as coolant and transmission oil, if applicable.

7. Throttle

Ensure the throttle operates smoothly and returns to the closed position.

8. Shock absorber

Check the front and rear shock absorber for any signs of damage or leaks.

9. General condition

Inspect the motorcycle's overall condition, including the frame and any visible components. Make sure all screws and bolts are tightened properly.

10. Mirrors

Adjust mirrors for a clear rearview and ensure they are securely fastened.

11. Horn

Test the horn to ensure it is working.

Regular pre-ride inspections can help keep your motorcycle in good condition and ensure a safer riding experience.

IV. Operation Instruction

Riding the motorcycle

1. Mounting the motorcycle

Stand on the left side of the motorcycle. Place your left foot on the ground and hold the handlebars firmly. Swing your right leg over the motorcycle, ensuring you maintain balance. Sit comfortably on the seat with both feet firmly on the ground.

2. Starting the engine

Ensure the motorcycle is in a stable, upright position. Turn the ignition switch to the "Q" position. Press the electric start switch or use the kick start lever while holding the brake lever to start the engine.

3. Accelerating

Gradually twist the throttle grip towards you to accelerate. Release the throttle grip to decrease speed.

4. Braking

Apply the front and rear brakes smoothly by squeezing the brake levers. Always use both brakes simultaneously to ensure balanced and effective stopping.

5. Turning

Slow down before entering a turn. Lean your body slightly in the direction of the turn, and steer the handlebars gently. Maintain a steady throttle to keep the motorcycle stable.

6. Riding safety

Always wear a helmet and protective gear. Observe all traffic laws and signals. Avoid sudden acceleration, deceleration,

or sharp turns. Be aware of road conditions and other vehicles around you. Wear brightly colored clothing to increase visibility to other road users.

7. Parking the motorcycle

Bring the motorcycle to a complete stop. Turn off the engine by turning the ignition switch to the "OFF" position. Use the main stand or side stand to stabilize the motorcycle on a flat surface. Lock the handlebars by turning the switch to the "LOCK" position.

WARNING

- The exhaust pipe becomes very hot during riding. Even shortly after stopping, it can still cause injury if touched. To protect your legs, wear trousers.
- Always wear a helmet, glasses, and gloves while riding.
- Avoid wearing loose or unsuitable clothing, as it may cause an accident while riding.
- Ensure all devices are installed in accordance with traffic regulations. Carry your license while riding, and ensure that all motorcycle equipment complies with local traffic laws.

NOTICE

During the first 1,000 km, maintain controlled speeds and keep the payload under 150 kg (including the driver's weight).

Travelled distance (km)	0~200	200~500	500~1000
Speed (km/h)	≤30	≤45	≤55

Exceeding speed limits or overloading the motorcycle can shorten the engine's lifespan.

Follow the speed recommendations outlined in the table below.

Starting the engine

Turn the ignition switch to the “Q” position.

- Electric starter: Press down the electric start switch to start the engine. Do not hold the switch for more than 5 seconds at a time.
- Kick starter: With a firm motion, push down on the kick start lever. After a full stroke, the kick start lever will return to its original position.

NOTICE

- Starting the engine requires the brake to be engaged.
- If the electric starter does not work, wait 30 seconds before attempting to start the engine again.
- When starting the engine in cold conditions, allow it to warm up for 3 minutes before riding.
- Avoid running the engine at idle speed for extended periods on extremely hot days to prevent overheating. Turn off the engine immediately if it becomes too hot.

Acceleration and deceleration

When starting, control your speed by turning the throttle:

- To increase speed, turn the throttle grip in direction (a).



Electric start switch

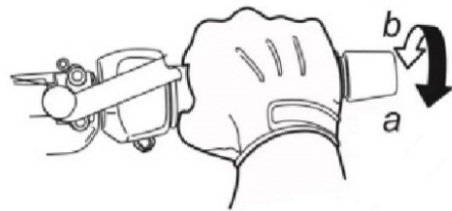


Kick start lever

-
- To decrease speed, turn the throttle grip in direction (b).

NOTICE

- Avoid sudden acceleration or abrupt release of the throttle grip to prevent the motorcycle from unexpectedly surging forward.
- The rider must retract the main and side stand before driving and be aware of the road conditions ahead.



Braking

1. Control the throttle grip

Always control the throttle grip and use both brake systems to slow down.

NOTICE

Exercise caution when riding in adverse conditions, such as on wet or moist roads. On rainy days, take extra care when braking, accelerating, and turning.

2. Brake operation

Always operate both the front and rear brakes simultaneously.

NOTICE

When descending a steep slope, do not accelerate. Use both brake systems to reduce speed. Avoid continuous braking, as it can cause the brakes to overheat, reducing their effectiveness.

WARNING

When riding at high speeds on smooth or curving roads, do not rely on only one brake system. Always use both the front and rear brakes simultaneously to prevent accidents.

Engine break-in

There is never a more important period in the life of your engine than the period between 0 and 1000 km. For this reason, you should read the following material carefully. Since the engine is brand new, do not put an excessive load on it for the first 1000 km. The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full-throttle operation or any condition that might result in engine overheating must be avoided.

NOTICE

After 1000 km of operation, the engine oil must be changed and the oil filter must be cleaned. If any engine trouble occurs during the engine running in period, immediately have a dealer check the vehicle.

Parking

When parking, turn the switch to the “LOCK” position, lower the main or side stand, and lock the steering.

WARNING

Always park the motorcycle on flat ground to prevent it from falling and causing injury.

NOTICE

- Whenever possible, park the motorcycle in a garage or sheltered area.

V. Maintenance and Service

Periodic maintenance chart

Maintenance should be performed based on the odometer readings. Refer to the maintenance schedule for guidance on when to perform routine maintenance.

If you frequently use the motorcycle at high speeds or under harsh conditions, increase the frequency of maintenance checks.

After major repairs or collisions, have a professional inspect critical components such as the frame, hangers, and steering parts. Repair or replace any damaged parts to ensure your safety.

NOTICE

- For safety and reliability, avoid modifications and always use original parts for replacements. Using non-original parts can affect performance and operation.
- If the motorcycle has not been used during winter or has been parked for more than one month, perform a maintenance check before riding. Inspect the fuel, tires, and battery for any issues or deterioration.

WARNING

For personal safety, always turn off the engine, ensure the motorcycle is parked on a stable surface, and securely support it with stands before performing any maintenance work.

I: Inspect (clean, adjust, lubricate, replace, if necessary)

C: Clean, A: Adjust, L: Lubricate, R: Replace.

Cycle Item			Speedometer (x1000km)				
			1	4	7	10	13
*	Fuel pipe		I	I	I	I	I
*	Air filter	(Note 1)	I/R	I/R	I/R	I/R	I/R
*	Spark plug	Replace every 2 years or 15,000 km, whichever comes first.			I		
*	Valve clearance		I	I	I	I	I
*	Engine oil		R	R	R	R	R
*	Engine oil filter		I/R	I/R	I/R	I/R	I/R
*	V-belt	Replace every 2 years or 15,000 km, whichever comes first.		I	I	I	I
*	Gearbox oil	(Note 3)	R		I/R		R
	Brake system		I	I	I	I	I

*	Brake fluid	Replace every 2 years.		I	I	I	I
*	Headlight			I	I	I	I
*	Shock absorber assembly			I	I	I	I
*	Nuts/bolts/fasteners	(Note 2)	I		I		I
**	Tires/rims			I	I	I	I
**	Turning bearing		I			I	
*	Lights, signals and switches		I	I	I	I	I
*	Battery		I	I	I	I	I

* Unless you are an expert with a full set of tools and maintenance data, consult your dealer for maintenance or repairs.

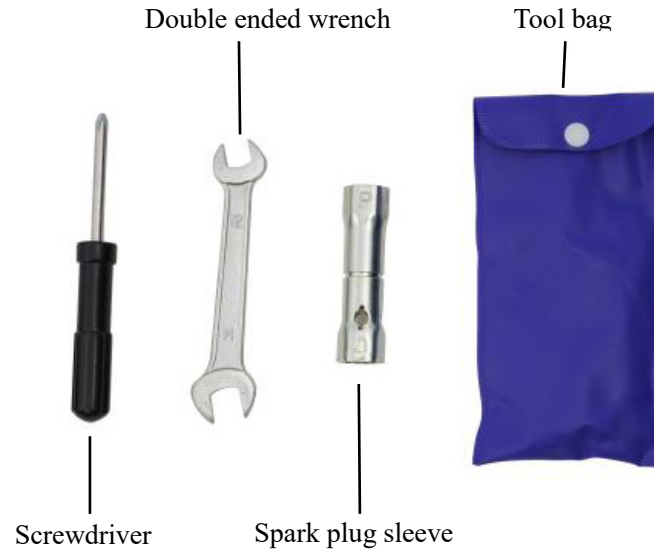
** For optimal safety, it is recommended that all maintenance tasks be performed by an authorized dealer.

Note:

1. If you use the motorcycle in particularly moist or dusty environments, shorten the maintenance interval. Additionally, if fuel consumption increases or acceleration performance decreases, consider replacing certain parts.
2. If you frequently ride on rough or uneven roads, schedule maintenance to ensure the vehicle's performance remains optimal.
3. In cold climates, adjust and replace items as needed with the changing seasons.

Toolkit

The toolkit is located in the under-seat storage box and contains the following tools:



Checking the fuel level

When only one bar is left on the instrument panel, refill the fuel. Also, check the condition of the fuel tank.

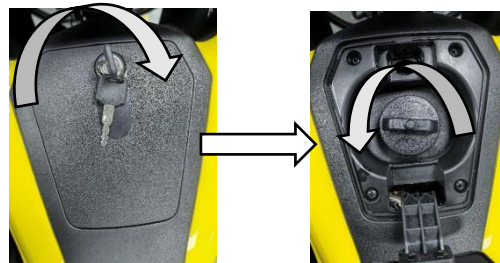
- Fuel tank capacity: The fuel tank has a maximum capacity of 9 L.
- Open the fuel tank: First insert the key and turn it clockwise to open the fuel tank panel, then turn the fuel tank cap counterclockwise to remove it.
- Recommended fuel: RON 90 or higher.

WARNING

It is forbidden to mix fuel with water, dust, or other contaminants.

NOTICE

- Fuel is highly flammable and can cause fires or explosions under certain conditions. Refill the fuel only in a well-ventilated area after the engine has been stopped. Ensure there are no sources of ignition in the vicinity of the refueling or storage area.
- Do not overfill the tank above the inlet tube. After refueling, ensure the tank is securely closed.
- Fuel is toxic. Avoid contact with skin and eyes, and keep it out of reach of children. If ingested, seek medical attention immediately.



Spark plug

To check the spark plug

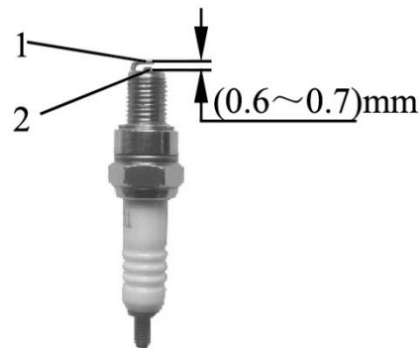
1. Disconnect the spark plug cover and use the spark plug sleeve to remove the spark plug.
2. Check for any burning ash or accumulated dirt on the electrode or porcelain head. If the spark plug is badly burned, replace it. Clean any ash or dirt with a plug cleaner or brush.
3. The gap between the side electrode (1) and the center electrode (2) should be 0.6-0.7 mm.

Spark plug specification

Standard: A7RTC/CR7HSA

WARNING

Only use spark plugs that match the specified requirements. Using spark plugs with different specifications may cause engine issues or void your warranty.



Engine oil

To check the engine oil level

1. Use the main stand to stabilize the motorcycle on a level surface.
2. Start the engine and let it idle for several minutes.
3. After warming up, turn off the engine and let the motorcycle sit for a few minutes to allow the oil to settle.
4. Remove the dipstick and wipe it clean with a cloth or paper towel. Then, reinsert the dipstick fully into its original position without screwing it in.
5. Remove the dipstick again and check the oil level: The oil level should be between the upper and lower marks on the dipstick.
6. If the oil level is below the lower mark, add the recommended type of oil. Recheck the level after topping up to ensure it's within the correct range.
7. Once the oil level is correct, securely reinsert and tighten the dipstick.



To change the engine oil and clean the oil strainer

1. Start the engine, warm it up for several minutes, and then turn it off.
2. Place an oil pan under the engine to collect the used oil.

3. Remove the engine oil filler cap and drain bolt to drain the oil from the crankcase.

NOTICE

When removing the engine oil drain bolt, the O-ring (1), compression spring (3), and oil strainer (2) will fall out. Take care not to lose these parts.

4. Clean the engine oil strainer with solvent, and then check it for damage and replace it if necessary.

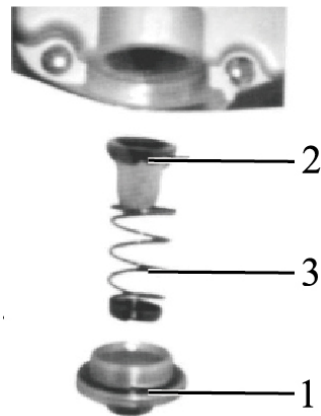
5. Install the engine oil strainer, compression spring, engine oil drain bolt with new O-ring, and then tighten the drain bolt.

6. Refill with the specified amount of the recommended engine oil, and then install and tighten the oil filler cap.

Recommended engine oil: SJ 15W/40

Total amount: $0.7\text{L} \pm 0.1\text{L}$

Periodic oil change: $0.6\text{L} \pm 0.1\text{L}$



Replacing the gearbox oil

1. Place the vehicle with the main stand on a stable surface.
2. Position a drain pan under the drain bolt, then unscrew the immersion bolt (1) and the oil drain bolt (2).
3. Once the oil has fully drained, clean the drain bolt thoroughly and reinstall it.

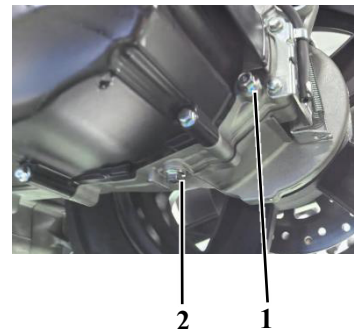
NOTICE

When draining the oil, ensure the engine is warmed up to a suitable temperature. Use the main stand to support the motorcycle, and ensure all the oil is thoroughly drained.

4. Slowly add oil into the immersion bolt hole until it begins to spill over.
5. Securely tighten the immersion bolt.

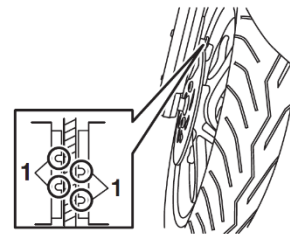
Recommended gearbox oil: SAE 80W/90 (in extremely cold areas, anti-freezing oil may be used).

Changing capacity: 0.10L



Checking the brake pad wear mark

The brake pad is provided with wear indicator grooves (1), facilitating the inspection of pad wear without the need for brake disassembly. To check the brake pad wear, simply check the wear indicator grooves. If a brake pad has worn to the extent that the wear indicator grooves have almost disappeared, have a dealer replace the brake pads as a set.



Checking the brake disc wear mark

When the brake disc is worn to its limit (indicated as MIN.TH. 3 mm on the disc), it must be replaced to ensure proper braking performance.

NOTICE

If brake system maintenance is required, consult your dealer for service and replacement if necessary.

WARNING

When the brake disc has worn down to the limit (indicated as MIN.TH. 3 mm on the disc), it must be replaced to maintain optimal braking performance.

Checking the brake fluid level

Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective. Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage.

Recommended brake fluid: DOT4

Check the free play of rear brake pedal

To measure the free play of the rear brake level before the braking function, ensure the free play is between 10-20 mm, using the tail of the brake level as a reference.

To adjust:

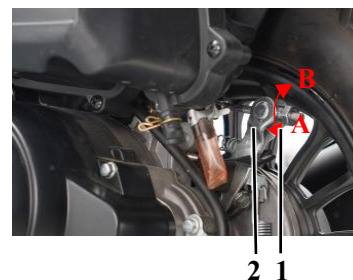
(A) Increase the free play.

(B) Reduce the free play.

After adjustment, ensure the axle pin (2) touches closely with the groove of the nut (1).

NOTICE

If maintenance is needed for the brake system, contact your dealer for assistance.



Tire

Tire pressure

Front tire pressure: 225 kPa/rear tire pressure: 225 kPa

Regularly check and adjust tire pressure as needed.

Inspection guidelines

- Check tire pressure when the tires are cold.
- Inspect for flat tires and repair them immediately if necessary.
- Look for any metal debris or gravel in the grooves of the tires.
- Replace tires when they have worn down to the abrasion mark

WARNING

- Incorrect tire pressure can increase the risk of traffic accidents.
- Using worn tires is dangerous as it affects the friction between the tire and the road, which can lead to driving difficulties or even cause an accident.

Cleaning the air filter

1. Remove the fixing bolt from the air cleaner cover.
2. Take out the filter element from the air cleaner box.
3. Clean the filter element using compressed air or a dry brush, or replace it with a new one.
4. Reinstall the components in reverse order.

NOTICE

Never use gasoline or solvents with a low flash point for cleaning.



Battery maintenance

This model is equipped with a maintenance-free battery. There is no need to check the electrolyte or to add distilled water. However, the battery lead connections need to be checked and, if necessary, tightened.

NOTICE

- If you are not using the motorcycle for an extended period, remove the battery and store it in a ventilated, dry place.
- Before removing the battery, turn off the ignition switch. Disconnect the negative terminal first, followed by the positive terminal. Reinstall the battery in reverse order.



Replacing the fuse

The fuse is rated at 15A. If the fuse frequently blows, it may indicate a short circuit or overload in the electrical system. Contact your dealer for repairs. Never replace the fuse with brass wire or any other substitute.

VI. Vehicle Storage

To prevent malfunctions and potential damage to your vehicle if it hasn't been used for an extended period, follow these steps and perform necessary repairs before storage:

1. Change the engine oil: Replace the engine oil to ensure that old, contaminated oil does not cause damage.
2. Drain fuel: Remove fuel from the fuel tank.

WARNING

Fuel is highly flammable and can cause fire or explosion. Ensure no open flames are present while draining.

3. Prepare the cylinder: Remove the spark plug and inject about 15-20 ml of oil into the cylinder. Press the start button several times to distribute the oil, then reinstall the spark plug.
4. Battery care: Remove the battery and store it in a place shielded from strong light and cold temperatures. Charge the battery monthly.
5. Clean and protect: Clean the vehicle and dry it thoroughly. Apply wax to the painted surfaces and anti-rust oil to metal parts.
6. Cover and store: Cover the vehicle and store it in a cool, dry place.

Reactivate the vehicle after storage

1. Prepare the vehicle: Remove the cover and clean the vehicle. Change the oil if it has been stored for more than 4 months.
2. Check the battery: Charge the battery if needed and reinstall it.
3. Inspect the vehicle: Check all parts before driving. Ride at low speeds in a non-busy area initially to ensure everything is functioning safely.

VII. Vehicle Identification

VIN (Vehicle Identification Number) and engine number: These numbers are required for vehicle registration, annual inspections, and after-service procedures.

VIN (Vehicle Identification Number)



Engine number



VIII. Main Technique Parameter

General information	Model	MINNIX 150	Physical measures	Dry weight (kg)	111
	Picture			Seat height (mm)	775
	Year			Overall length (mm)	1890
	Category	Motorcycle		Overall width (mm)	748
				Overall height (mm)	1080
Engine and transmission	Displacement (cc)	149.5	Chassis and dimensions	Ground clearance(mm)	118
	Engine type	ZL1P57QMJ		Wheelbase(mm)	1265
	Engine mode	1-cylinder/4-stroke/2-valve		Frame type	Underbone frame
	Bore x stroke(mm)	Φ 57.4x57.8		Front suspension	Telescopic forks
	Max. power	6.8 kW/7500 r/min		Front suspension travel (mm)	120
	Max. torque	9.3 Nm/6000 r/min		Rear suspension	Single shock absorbers
	Compression ratio	9.5:1		Rear suspension travel(mm)	65
	Fuel system	Carburetor		Fr. tire	90/90-12
	Valve train	SOHC		Rr. tire	3.5-10
	Ignition	C.D.I.		Fr. brake	Disc
	Starter	Electric & kick	Other specifications	Fr. brake diameter (mm)	220
	Lubrication	Pressure splash lubrication		Rr. brake	Drum
	Cooling system	Air-cooled		Rear brake diameter (mm)	110
	Gear shifting type	Automatic CVT		Top speed (km/h)	92
	Transmission type	V-belt		Max load (kg)	160
	Clutch type	Automatic		Fuel capacity (L)	9
				Battery	12V6Ah

MINNIX 150