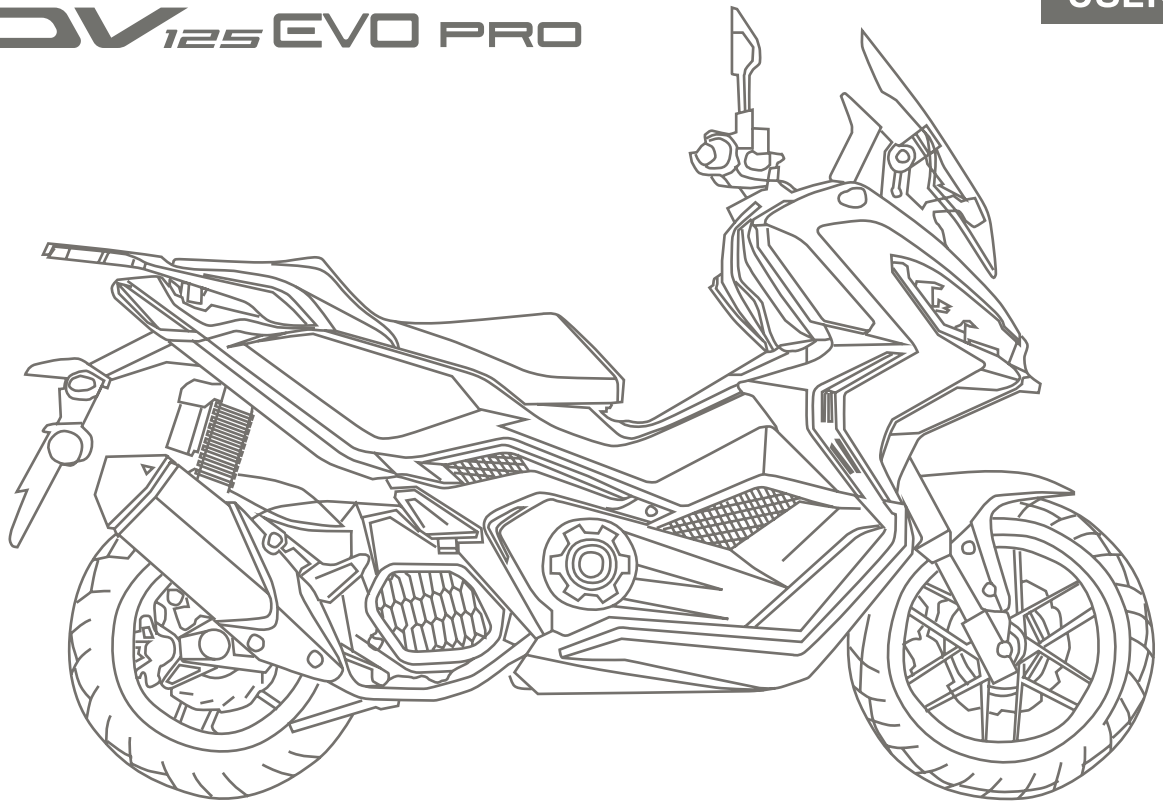
XDV 125 EVO
XDV 125 EVO PRO

USER MANUAL



KEEWAY

User Notes

1. Driver and passenger

This scooter is intended for use by one driver, or by one driver and one passenger.

2. Road conditions for driving

This scooter is suitable for use on paved roads only.

3. Please read this user manual carefully

A thorough and patient break-in of the new vehicle ensures stable operation and optimal performance of the scooter. Pay special attention to sections that begin with the following terms:

Warning: Indicates that improper operation, not following the instructions in this manual, may result in serious injury or death.

Caution: Indicates that not following the instructions in this manual may lead to personal injury or damage to the scooter.

Note: Indicates important tips for effective operation.

This user manual should be considered a permanent part of the scooter. If the vehicle is transferred to another owner, the manual should also be passed along to the new owner. Reproduction or copying of any part of this manual without written permission from the company is strictly prohibited.

This scooter's lubrication points use specialized lubricating oil or grease.

Foreword

Thank you for choosing the scooter produced by our company. This scooter has been designed, developed, and manufactured using advanced production technologies and equipment. It is a reliable, luxurious, and stylish scooter with a modern appearance. Riding a scooter is one of the most exciting activities and an ideal mode of transportation for your travels, offering endless enjoyment while driving. However, before using this product, please carefully read this user manual and familiarize yourself with the rules and requirements outlined.

This user manual provides detailed information on the procedures and requirements for the use, maintenance, and care of this product. By following these procedures, you will ensure long-term, trouble-free use of your scooter. Our company offers skilled technicians and specialized service departments to provide the best inspection, repair, and maintenance services for your scooter.

All information, descriptions, images, and specifications in this manual are based on the latest product at the time of publication. Due to improvements or other changes, the contents of this manual may differ slightly from the actual situation. The company reserves the right to make modifications at any time.

Product specifications and parameters are subject to change without prior notice!

Product configurations and accessory availability may vary depending on the country or region. For details, please consult your local dealer!

Contents

Important Information for Users

Safety guidelines for riding

You must first undergo professional, legal training and obtain a valid driving license. Additionally, when riding a scooter, you must follow traffic rules and pay attention to the following seven important requirements:

1. Wear a helmet

Since most serious scooter accidents involve head injuries, riders must wear a helmet to protect themselves from potential damage. It's also recommended to wear proper eye protection.

2. Familiarize yourself with the scooter's structure

Your riding skills and mechanical knowledge are the foundation of safe driving. Practice in an open, vehicle-free area until you are fully familiar with your scooter and its controls. Remember, never lend the vehicle to an inexperienced rider.

3. Know your safe speed limits

Riding speed depends on road conditions, your skill level, and weather factors. Understanding these limits can help prevent accidents. Always ride within your comfort and skill level to avoid accidents. Speeding is a major cause of traffic accidents, so pay attention to roadside signs and adjust your speed according to the environment.

4. Wear fitted clothing

Loose or unusual clothing can be uncomfortable and unsafe while riding. When sitting on the saddle, wearing fitted clothing allows for freedom of movement in your arms, legs, and body. Wearing gloves, boots, and other protective gear, along with a helmet, clearly shows that you are taking safety measures as a responsible and qualified rider. Try to choose high-quality, form-fitting clothing.

5. Exercise extra caution in rainy weather

On rainy days, remember that braking distance is double that of a clear day. Avoid manhole covers, painted surfaces, and oily patches on the road to prevent slipping. Wet roads are dangerous, so avoid making sharp turns while accelerating. Be particularly careful when crossing railroads, bridges, and similar areas by observing road conditions, controlling speed, and maintaining a safe distance from vehicles ahead.

6. Pre-ride inspection

Carefully read the "Pre-Ride Inspection" section of this manual. Following the guidelines will ensure your safety and that of your passenger.

7. Troubleshooting

If the scooter is still under warranty, consult with the dealership before attempting any repairs. Unauthorized

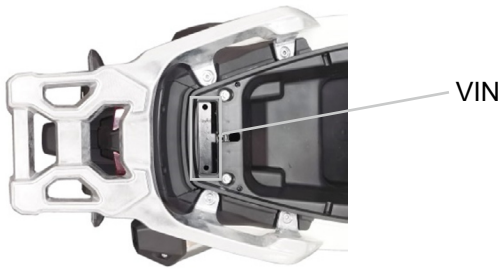
repairs during the warranty period may void your warranty.

Do not modify the vehicle without permission, as unapproved changes could create safety hazards.

Ensure that any luggage box or authorized storage box is securely fastened, with a maximum load not exceeding 3kg.

After riding, the engine and exhaust may become very hot. When parking, avoid contact between your body and the engine or exhaust to prevent burns. Also, keep them away from flammable materials to avoid fire hazards.

Serial number location



The vehicle identification number (VIN) is located under the rear of the seat.

The vehicle nameplate is located on the lower left side of the vehicle.

The engine number is located beneath the engine.

VIN	
Engine number	

The VIN and engine number are used to register the scooter. These numbers will help the dealer provide better service when ordering parts or requesting special services. Please record the appropriate numbers for future reference.

Installation Position of Components

1. Left brake lever
2. Brake fluid reservoir
3. Instrument panel
4. Front storage box
5. Fuel cap
6. Rider seat
7. Passenger seat
8. Rear grab bar
9. Air filter
10. Engine
11. Main stand
12. Rear footrest
13. Side stand

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14. Rear storage box
15. Battery location
16. Ignition switch
17. Throttle grip
18. Right brake lever
19. Windshield
20. Oil dipstick
21. Muffler

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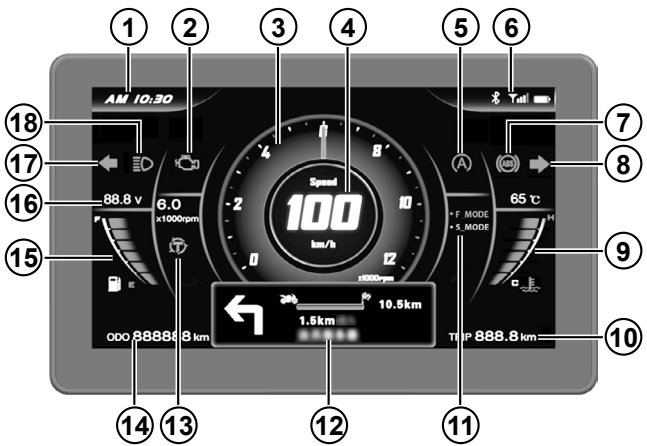
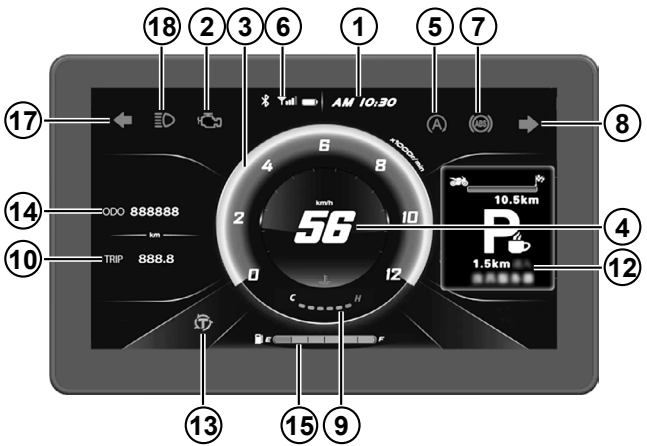
Controls

Instrument panel



F_MODE (Full mode)



S_MODE (Simplified mode)

Each time you turn on the ignition switch, the instrument panel will automatically initialize and display the diagnostic function. When the ignition switch is turned on, the speedometer reading should be zeroed. If it does not zero out, please have it checked at an authorized dealer.

1. Clock

Displays the current time. If the battery is disconnected, the time will reset to zero and needs to be reconfigured.

2. OBD trouble warning indicator

When the ignition switch is in the ON position and the engine is not started, this indicator will be on. Once the engine starts, the indicator should be off. If the indicator remains on after the engine has started, it indicates a fault in the EFI (Electronic fuel injection) system. Please contact an authorized dealer for inspection.

3. Tachometer

Dispalys the current engine RPM (Revolutions Per Minute).

4. Speedometer

Displays the current vehicle speed. The unit of measurement can be switched between Metric and Imperial.

5. Auto start-stop indicator

This indicator shows the status of the auto start-stop function. After power is applied, the indicator will turn on for 2 seconds and then turn off. Once the engine starts and the vehicle speed is greater than 15 km/h for more than 3 seconds, the auto start-stop initialization is complete. When the engine temperature reaches 65°C, the auto start-stop function will activate if the vehicle is stopped and the throttle is released. After maintaining this condition for 3 seconds, a shutdown signal will be sent, and the indicator will flash until the engine stops. A gentle pull on the throttle can enable intelligent restart, and the start-stop indicator will remain on.

6. Bluetooth connection indicator

When the phone's Bluetooth is connected to the instrument Bluetooth, the Bluetooth symbol will be displayed in white. If not connected, the symbol will not be displayed.

When the phone is connected via Bluetooth, incoming and outgoing calls will display the caller’s number or name on the screen, accompanied by a flashing phone symbol. During an active call, the caller’s number will be shown, and the phone symbol will remain on.

During an incoming call, press the "▼" button briefly to answer, and press the "BACK" button briefly to hang up. During an outgoing call, press the "BACK" button

briefly to hang up.

If the name is saved in the phone's contact list, the contact name will be displayed for incoming or outgoing calls. If the number is not saved, the phone number will be displayed.

Each time the vehicle is powered on or the Bluetooth reconnects, it will automatically update the phone book to reflect any changes in the contact names stored on the phone.

7. ABS indicator

When the ignition switch is turned on, the ABS indicator will illuminate while the vehicle is stationary. Once the speed exceeds 10 km/h, the indicator should turn off. If the indicator remains on or comes on while driving, it indicates a malfunction in the ABS (Anti-lock Braking System). Please contact an authorized dealer for assistance.

8. Right turn signal indicator

When the right turn signal is activated, the turn signal indicator will flash accordingly.

9. Coolant temperature indicator

Displays the current engine coolant temperature. If the temperature warning indicator comes on, it indicates that the engine coolant temperature is too high. Please stop the vehicle to check or contact an authorized dealer for assistance.

10. Tripmeter

The tripmeter records the vehicle's mileage for a single trip. It can be reset, and when the maximum value is exceeded, it resets to zero and starts accumulating again. Even if the battery is disconnected, the tripmeter remains stored in memory.

11. Instrument display mode

Through the settings, the instrument display interface can switch between full mode and simplified mode.

12. Simple navigation (If equipped)

The instrument connects to the scooter app (if equipped) via Bluetooth. After opening the navigation and setting a destination, click "Start Navigation". The lower or right part of the instrument display (depending on the different display mode) will show the simple navigation interface, displaying information such as the current road name, remaining total mileage, distance to the next intersection, and turn direction arrows.

13. TCS indicator

When the ignition switch is turned on, the TCS indicator will illuminate while the vehicle is stationary. Once the speed exceeds 5 km/h, the indicator should turn off. When the TCS is activated while riding, the indicator will flash.

If the TCS function is turned off, the indicator will remain on. When the vehicle is powered off and the ignition switch is turned on again, the TCS function will default to being reactivated.

14. Odometer

The odometer records the total distance traveled by the vehicle in kilometers.

15. Fuel level indicator

Displays the fuel level in the tank, indicated by "E" (Empty) and "F" (Full).

When the fuel tank is full, all fuel level segments will light up.

When the fuel is low, the yellow fuel warning symbol will remain illuminated. Refill fuel promptly.

If the fuel level sensor circuit is open, the indicator will show 0 segments and the fuel level warning light will flash. If the sensor is shorted, all 6 segments will flash simultaneously. Please inspect the wiring or contact an authorized dealer for assistance.

16. Battery voltage

Displays the current battery voltage.

17. Left turn signal indicator

When the left turn signal is activated, the turn signal indicator will flash accordingly.

18. Headlight indicator

When the low beam is activated, the ≣D indicator will illuminate; When the high beam is activated, the ≣D indicator will illuminate.

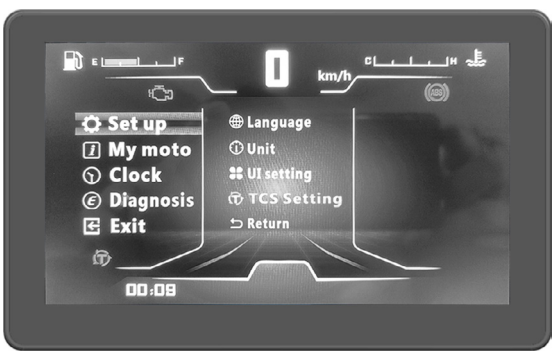
Instrument function

The instrument panel on this vehicle is configured using the four buttons located on the left combination switch: "STE", "BACK", "▲", and "▼".

Press the "STE" button to confirm, the "BACK" button to return to the previous interface, and the "▲" or "▼" button to select.

Backlight brightness adjustment

In the main interface, press the "▲" or "▼" button to adjust the backlight brightness.



Menu interface

Menu interface

In the main interface, press the "STE" button to access the menu interface.

Use the "▲" or "▼" button to navigate through the options: "Set Up", "My moto", "Clock", "Diagnosis", or "Exit". Press the "STE" button to select and enter the highlighted option.

Set up

In this option, use the "▲" or "▼" button to navigate through the options: "Language", "Unit", "UI setting", "TCS Setting", or "Return".

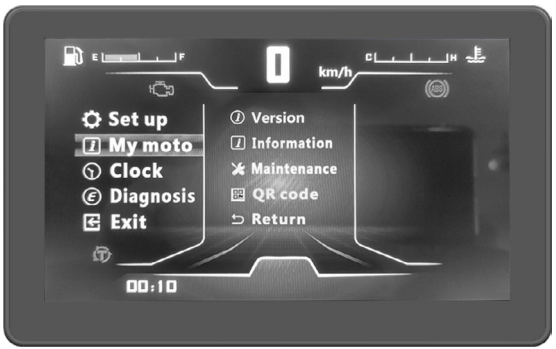
Language: Press the "STE" button to access the setting. Press the "▲" or "▼" button to toggle between English and Chinese.

Unit: Press the "STE" button to access the setting. Press the "▲" or "▼" button to toggle between Metric and Imperial units.

UI setting: Press the "STE" button to access the setting. Press the "▲" or "▼" button to toggle between Full mode and Simplified mode.

TCS Setting: Press the "STE" button to access the setting. Press the "▲" or "▼" button to toggle between TCS On and TCS off.

After selecting, press the "STE" button to save the changes and return to the previous interface.



My moto

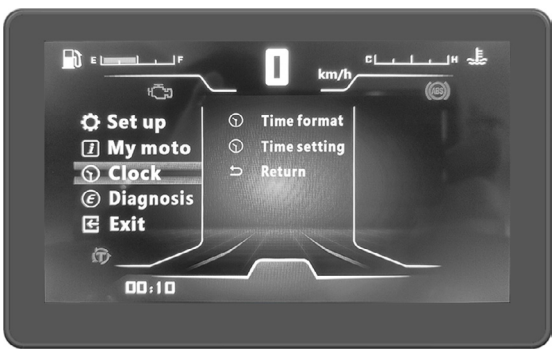
In this option, use the "▲" or "▼" button to navigate through the options: "Version", "Information", "Maintenance", "QR code", or "Return".

Version: Press the "STE" button to view the version information.

Information: Press the "STE" button to view the "Tripmeter", "Top speed", "Average speed" and "0-60 km/h fastest acceleration time".

Maintenance: Press the "STE" button to view the driving mileage since the last maintenance reset. After maintenance, press the "STE" button to access setting, then press the "▲" or "▼" button toggle between Reset and Return.

QR code: Press the "STE" button to view the QR code. Scan the code to download the scooter app (if equipped).



Clock

In this option, use the "▲" or "▼" button to navigate through the options: "Time format", "Time setting", or "Return".

Time format: Press the "STE" button to access the setting. Press the "▲" or "▼" button to toggle between 12-hour mode and 24-hour mode.

Time setting: Press the "STE" button to access the setting. Press the "▲" or "▼" button to adjust the time value, press the "STE" button to move to the next time field (hours, minutes) for further adjustment.

After setting, press the "STE" button to save the changes and return to the previous interface.

Diagnosis

In this option, use the "▲" or "▼" button to navigate through the options: "ECU Info", "Diagnostic Info", "ABS Diagnostic", "Tpms", or "Return".

ECU Info: Press the "STE" button to view the ECU infomation.

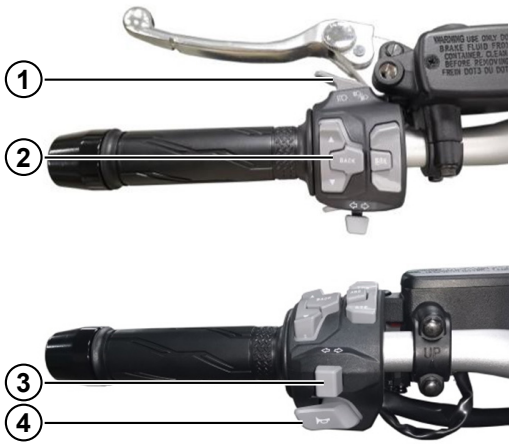
Diagnostic Info: Press the "STE" button to view the diagnostic information.

ABS Diagnostic: Press the "STE" button to view the ABS diagnostic information.

Tpms (if equipped): Press the "STE" button to view the tire pressure monitoring information.

After viewing, press the "STE" or "BACK" button to return to the previous interface.

Left and right handlebar control assemblies



1. High beam switch/low beam switch/passing switch

In normal operation, the headlight is set to low beam mode. Push the switch outward to activate the high beam mode. Press the switch inward to activate the high beam intermittently, signaling to the vehicle ahead for overtaking. Release the switch to turn off the high beam.

2. Instrument set button

For detailed functions, refer to the section of "Instrument function".

3. Turn signal switch

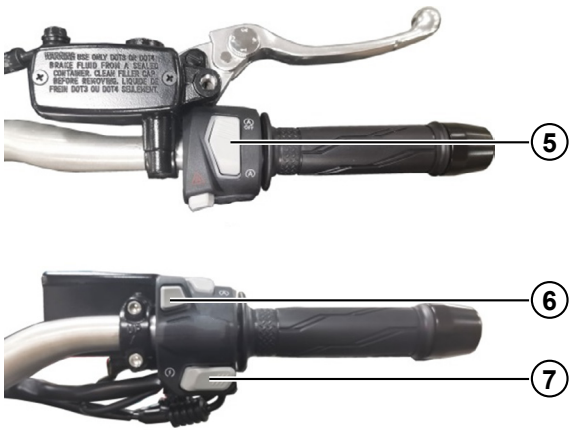
Push the switch to the right to activate the right turn signal.

Push the switch to the left to activate the left turn signal.

Press the switch to turn off the turn signals.

4. Horn switch

Press the switch to activate the horn.



5. Automatic start-stop switch

Turn the switch to the Ⓐ position to enable the automatic start-stop; turn the switch to the Ⓐ OFF position to disable the automatic start-stop.

6. Hazard switch

Press down the switch to activate all turn signals, indicating an emergency situation.

7. Electric start switch

When the ignition switch is in the ⟳ position, press down the electric start switch to activate the engine.

Note: For your safety, this vehicle is equipped with a start circuit control switch on the side stand. The start circuit will only engage when the side stand is retracted. Therefore, when starting the vehicle, ensure that the side stand is fully retracted and that either the front brake lever or the rear brake lever is held tightly.

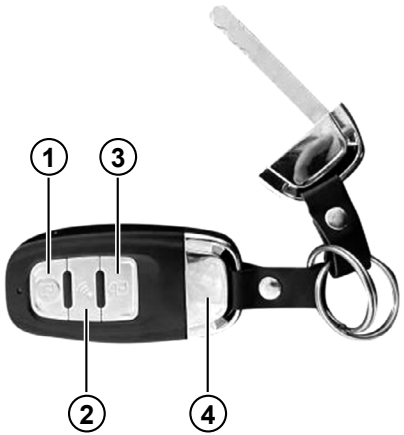
Anti-lock braking system (ABS)

ABS is a safety feature that prevents the vehicle's wheels from locking up during hard braking. It allows the driver to maintain steering control by rapidly modulating brake pressure to each wheel, which helps to avoid skidding and improves overall stability during emergency stops.

Traction control system (TCS)

TCS is designed to prevent wheel spin during acceleration by reducing engine power when a significant difference in speed between the driven and non-driven wheels is detected. This system enhances vehicle stability and control, especially on slippery surfaces, allowing for smoother acceleration and improved handling.

Remote key



This vehicle is equipped with a PKE (Passive Keyless Entry) smart electronic control lock, allowing for remote unlocking and keyless start.

1. Lock button

Press the lock button once, and the vehicle will respond by beeping once, flashing its turn signals once, and subsequently shutting off the electrical circuits to enter the anti-theft mode.

Press and hold the lock button for 3 seconds to enter alarm mode. The vehicle will sound an alert, and the turn signals will flash.

2. Vehicle location button

When the vehicle is powered off, briefly press the vehicle location button. The vehicle will beep three times and flash its turn signals three times to indicate its location.

3. Unlock button

When the remote key is detected, press the ignition switch on the front of the vehicle. The indicator light will illuminate, and you can rotate the switch to start the vehicle.

When the remote key is not detected, briefly press the unlock button once. In response, the vehicle will beep twice, and the turn signals will flash twice. Additionally, the vehicle electrical circuits will turn on, and the indicator light will illuminate to signify that the vehicle is ready for use. Within 5 seconds, you can rotate the ignition switch to any desired position without the key. If there is no operation within 5 seconds, the electrical circuits will turn off, and the vehicle will automatically enter anti-theft mode.

In alarm mode, briefly press the unlock button once to cancel the alarm sound, but this will not unlock the vehicle.

4. Mechanical key release button

The mechanical key is stored with the remote key. Press the button on the back of the remote key to extract the mechanical key.

You can unlock and start the vehicle by inserting the mechanical key, even without using the remote unlock function.

When the remote key is within a 1.5-meter range of the vehicle, you can operate the ignition switch to unlock and start the vehicle. However, if the remote key is more than 1.5 meters away from the vehicle, you must use either the remote key or the mechanical key to unlock it. Otherwise, the ignition switch will be locked and cannot be operated.

Anti-theft mode

When the vehicle detects the remote key, the anti-theft mode will not trigger an alarm.

If the remote key is not detected and the vehicle is disturbed, the lights will flash for 3 seconds during the first alarm phase and for 10 seconds during the subsequent alarm phase.

Ignition switch

When the remote key is detected within approximately 1.5 meters of the vehicle, simply press the ignition switch. The indicator light will then illuminate, indicating that power has been connected. You can then rotate the ignition switch to any required position. If no operation occurs within 5 seconds, the indicator light will turn off.

When the ignition switch is in the ⟲ position, and the indicator light remains on, you can start the vehicle and drive.

When the ignition switch is in the ⊠ position, the electrical circuits are shut off and the vehicle cannot be started.

When the ignition switch is in the SEAT position, pressing the FUEL or SEAT button to unlock the fuel tank or seat lock.

After stopping the vehicle and turning off the engine, turn the handlebars to the far left position. Press and hold the ignition switch, rotate it counterclockwise to the 🔒 position to lock the handlebars.

The ignition switch has a keyhole in its center. Insert the mechanical key into to the keyhole and turn it to any required position.

Always remove the mechanical key after parking and locking the handlebars. It is strictly prohibited to remove the mechanical key while driving, as this may compromise safety and control of the vehicle.

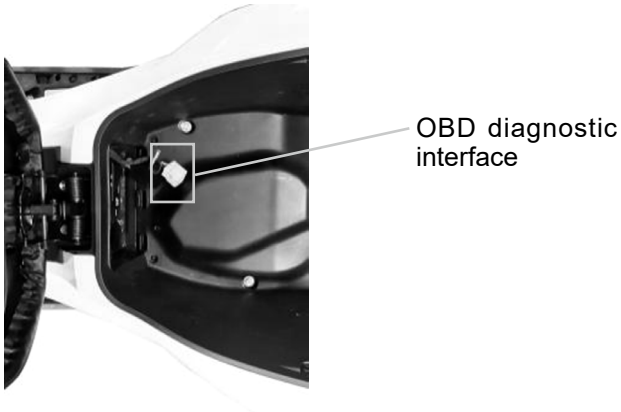
Front storage box and USB port

The front storage box is located on both sides beneath the handlebars.

The USB port is located inside the left box.

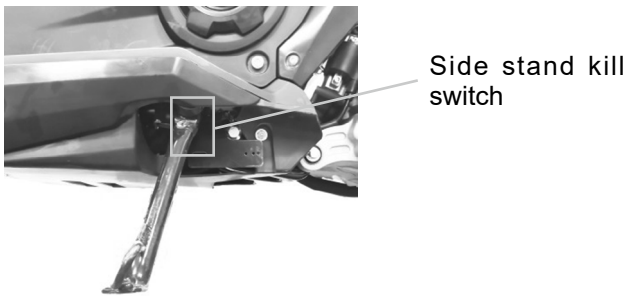
When the ignition switch is in the ⏻ position, the power connection is activated, the USB port can be used to connect low-voltage devices, such as a mobile phone.

OBD diagnostic interface



The OBD diagnostic interface is located inside the battery compartment beneath the seat. It can be accessed by opening the seat and removing the battery compartment cover.

Side stand kill switch



The side stand is equipped with a kill switch to prevent the engine from starting when the stand is not retracted. This system serves as a reminder for the rider to retract the side stand before starting the engine. If the vehicle can be started with the side stand in the extended position, it is recommended to have the vehicle checked at an authorized dealer.

Pre-Ride Inspection

The rider must ensure that the scooter is in good condition. Prolonged inactivity can lead to damage to various components of the vehicle. For instance, extended exposure to harsh weather can cause oxidation in the brake system or a decrease in tire pressure, both of which severely affect the overall performance of the scooter. In addition to a simple visual inspection, it is essential to perform the following checks before use.

These inspections require only a small amount of time but can keep your vehicle in good condition, ensuring stable and safe riding. If any abnormalities are found according to the inspection checklist, it is advisable to have the dealer check, repair, and rectify any faults before riding.

Check item	Inspection details
Fuel	● Check the fuel level in the tank. ● Add fuel if necessary. ● Inspect for any fuel leaks.
Engine Oil	● Check the engine oil level. ● Add the specified oil if necessary.
Brakes	● Check the brake operation system. ● If the brakes feel soft, have them checked at the dealer. ● Inspect the wear condition of the brake pads. ● Check the brake fluid level.
Lights, signals, horn	● Check operational condition. ● Adjust if necessary.
Tires	● Check the wear condition of the tires. ● Inspect tire pressure. ● Adjust if necessary.
Throttle	● Check if the throttle grip rotates smoothly and returns to position normally.
Steering	● Check if the steering operates normally.
Side stand	● Check if the side stand opens and retracts smoothly. ● Inspect the kill switch safety mechanism.

Starting and Driving Recommendations

Warning: When riding this scooter for the first time, you must familiarize yourself with all the control switches and their proper usage. If you are unsure about any of the functions, please consult your dealer for assistance.

Due to the toxic nature of exhaust fumes, the engine must be started in a well-ventilated area. Starting the vehicle in a small, enclosed space is strictly prohibited, even for short periods.

Starting the engine

For your safety, the scooter's side stand must be in the upright position when starting the engine.

- Turn the ignition switch to the ⟳ position.
- Ensure the throttle grip is in the closed position.
- While holding the left or right brake lever, press the start switch button. Do not hold the start switch for more than 10 seconds.
- Once the engine starts, release the electric start switch.

Note: If the engine does not start, release the start button and brake lever, then try again after a short pause.

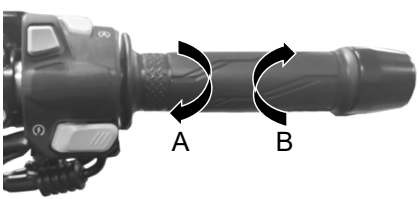
Riding the scooter

Starting

● Grip the left brake lever tightly, hold the rear grab rail with your right hand, and push the scooter forward to fold the side stand up.

● Sit on the scooter.

● Release the left brake while slowly twisting the throttle grip with your right hand to begin moving.



Accelerating and decelerating

● Turning the throttle grip towards direction (A) will accelerate the scooter.

● Turning the throttle grip towards direction (B) will decelerate the scooter.

Regular braking

The right brake lever controls the front brake, while the left brake lever controls the rear brake. To ensure effective braking, it is important to follow these guidelines:

● Close the throttle grip.

● Operate both brake levers simultaneously and gradually increase pressure.

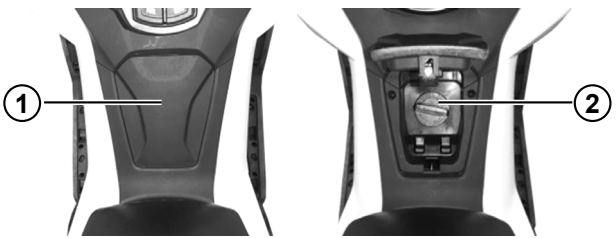
● Avoid sudden braking on wet surfaces or during cornering.

● Do not continuously apply the brakes while riding downhill, as overheating can reduce braking efficiency.

Refuel

The fuel tank is located in the middle section of the vehicle's floorboard.

● Turn the ignition switch to the SEAT position and press the FUEL button to open the fuel tank cover (1), as shown below:



● Rotate the fuel cap (2) counterclockwise to the "OPEN" position to remove it.

When refueling, ensure that the nozzle is properly inserted into the fuel inlet. To prevent fuel from entering the carbon canister and causing it to malfunction, do not fill the tank completely; it is recommended to fill it to no more than 90% of the tank's total capacity, which means not exceeding the fuel tank's shoulder.

To reduce fuel consumption and protect your scooter's mechanical performance:

● Avoid high speeds over short distances.

● Do not increase the engine's RPMs while it is unloaded.

● Ensure the combined weight of the rider, passenger, luggage, and accessories does not exceed the rated load.

● Even for short stops, turn off the engine to reduce emissions, contributing to environmental protection.

Warning: Please refuel at authorized gas stations and avoid using methanol fuel!

Note: Refuel the tank only when the engine is completely off and avoid spills. Any spilled fuel must be cleaned up immediately. Fuel can leak if heated by the engine or exposed to sunlight.

Use standard fuel with RON 92 or higher to extend the lifespan of the spark plugs. If the engine produces a slight knocking sound, it may be due to the use of inappropriate fuel substitutes, and the fuel should be replaced.

Engine break-in

To ensure the performance and longevity of the engine, it is essential to follow these guidelines:

● During the break-in period, avoid overloading the engine to prevent exceeding normal operating temperatures.

● For the first 500 km, do not keep the throttle open beyond half for extended periods.

● From 500 to 1000 km do not keep the throttle open beyond three-quarters for extended periods.

● After the break-in period, the vehicle can be used normally.

Turning off the engine and parking

When the engine is idling, turn off the engine using the engine stop switch on the right handlebar or turning off the ignition switch to shut down the engine.

The scooter should be parked on a flat surface. You can use either the side stand or the main stand.

Every time you park, lock the steering and take the remote key with you. Please do not store any valuable items in the storage boxes to prevent loss.

Inspection and Maintenance

Maintenance recommendations

Please ensure that your vehicle is maintained strictly according to the maintenance schedule to protect your warranty rights.

Maintenance schedule

The maintenance schedule is based on mileage and serves as a guideline for regular maintenance and lubrication. At the end of each interval, inspections, checks, lubrication, and specified maintenance must be performed as described.

To maximize the safety and reliability of your vehicle, it is recommended to have maintenance performed at an authorized dealer, where trained technicians, specialized tools, and genuine parts are available.

Note: To maintain the safety and reliability of the vehicle, do not modify it arbitrarily. When repairing or maintaining, replace parts with genuine parts or components of equivalent quality. Using inferior quality parts can compromise the vehicle's operational functionality.

If the vehicle is parked for more than a month or during winter, proper maintenance should be performed to prevent deterioration and corrosion of fuel, tires, battery, and other components.

Regular inspections, proper adjustments, and effective lubrication are essential to ensure the scooter operates safely and at its best. Safe driving is the responsibility of every scooter user, so please take it seriously.

Maintenance table

I: Inspect, clean, adjust, lubricate or replace as needed.

C: Clean.

R: Replace.

A: Adjust.

L: Lubricate.

T: Tighten.

Interval / Item	Odometer reading (km) (Note2)													
	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	Pre-ride inspection
Engine oil	R			R			R			R			R	I
Oil filter and strainer	C			C			C			C			C	
Oil-air separator	I/C			I/C			I/C			I/C			I/C	
Air filter (Note 1)	I/C/R			I/C/R			I/C/R			I/C/R			I/C/R	
V-belt							I/R						R	
Drive pulley ball bearings							I/R						R	
Spark plug	I			I			I			I			R	
Valve clearance	I						I						I	
Brake operation	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Brake fluid	R: Every 2 years or 30000km. The brake fluid must be replaced when its color turns black.													I
Brake pad				I			I			I			I	
Brake system	I/A			I/A			I/A			I/A			I/A	
Brake switches				I			I			I			I	
Headlights				I			I			I			I	

Interval / Item	Odometer reading (km) (Note2)													
	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	Pre-ride inspection
Side stand/ main stand				I			I			I			I	
Shock absorber assembly				I			I			I			I	
Nuts/bolts/ fasteners (Note 3)	I/T						I/T						I/T	
Wheel/rim (Note 3)	I			I			I			I			I	
Steering	I						I						I	
Coolant				I			I			I			I	

Note

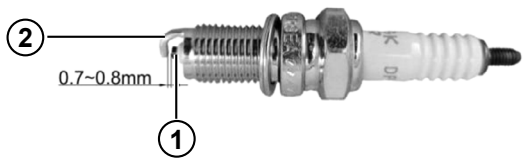
1. For riding in dusty areas, more frequent inspections and maintenance are required.

2. For odometer readings exceeding the indicated value, repeat the maintenance schedule shown in this table and continue regular inspections.

3. When frequently riding on rough or adverse road conditions, to maintain optimal performance, the vehicle must undergo more frequent maintenance.

Checking the spark plug

It is essential to use the high-tension cap and spark plug recommended by the manufacturer. We recommend having it replaced at an authorized dealer.



1. Remove:

Remove the high-tension cap and spark plug.

Note: Before removing the spark plug, use compressed air to clean the area around it to prevent debris from falling into the engine.

2. Inspect:

Spark plug type: If incorrect => Replace

Standard spark plug: CPR8EA-9

3. Check:

Electrode (1): If damaged/bent/worn => Replace

Insulator (2): If discolored => Replace

4. Clean:

Use a spark plug cleaner or wire brush to clean the spark plug.

5. Measure:

Use a feeler gauge to measure the electrode gap.

Electrode gap: 0.7-0.8 mm

6. Compression test:

Use a pressure gauge to test the engine compression pressure.

Standard: 1100 kPa (11 kg/cm²)

Minimum: 950 kPa (9.5 kg/cm²)

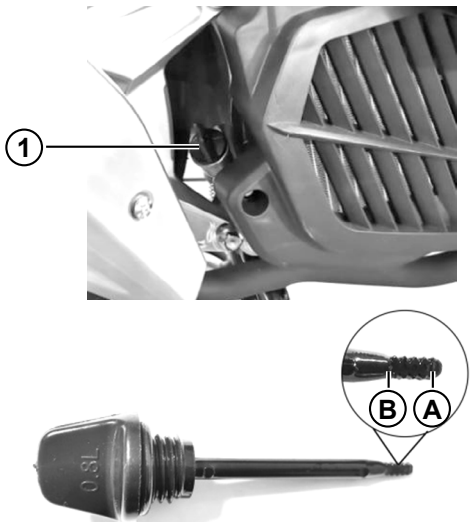
7. Install:

- Install and pre-tighten the spark plug by hand.
- Use a socket wrench to fully tighten the spark plug.

Note: To ensure proper installation of the spark plug, it is recommended to have this operation performed at an authorized dealer.

Engine oil

Checking the engine oil level



1. Place the scooter on a flat surface using the main stand.

2. Start the engine and let it run for a few minutes, then stop the engine.

3. Wait for a few minutes to allow the oil to settle.

4. Unscrew the oil dipstick (1).

5. Clean the dipstick thoroughly, then reinsert it without screwing it in.

6. Remove the dipstick again and check the oil level.

7. The oil level should be between the minimum mark A and the maximum mark B. Add oil if necessary.

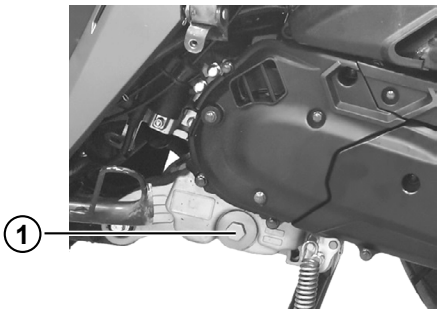
Note: Overfilling the oil can severely affect engine performance.

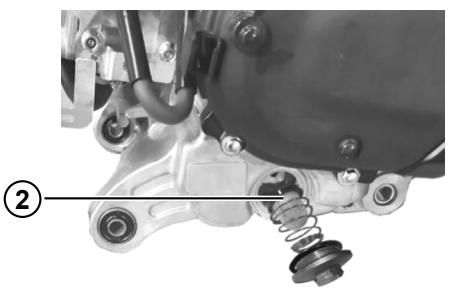
Replacing the engine oil

Note: It is recommended to visit an authorized dealer to replace the engine oil. Engine oil contains substances that can harm the environment, and dealers are equipped with proper facilities to properly dispose of waste oil.

Using high-quality 4-stroke engine oil can extend the life of your engine. Please use SG 10W-40 (of higher) oil or an equivalent as recommended by the dealer.

The required engine oil volume for each oil change is 0.8L.





The engine oil must be drained, and it is easier to do so when the engine has been warmed up.

1. Place the vehicle on level ground and support it with the main stand.

2. Wear protective gloves to prevent injury.

3. Remove the oil dipstick.

4. Remove the oil filter cover (1) and drain the engine oil completely.

5. Clean the oil strainer (2) thoroughly.

6. Reinstall the oil strainer and the oil filter cover securely.

7. Add 0.8 L of engine oil through the dipstick hole.

8. Reinsert the oil dipstick and ensure it is properly seated.

9. Check and adjust the oil level as necessary.

10. Inspect the oil filter cover for proper sealing and ensure there are no oil leaks.

Note: Make sure the oil filter cover is tightly secured to avoid any leaks after the procedure.

Valve adjustment

1. Remove the engine cylinder head cover to access the valve components.

2. Use a feeler gauge to measure the clearance between the valve and the adjustment shim, ensuring it matches the specified values.

Note: When checking the valve clearance, the valve timing mechanism marks must be aligned properly.

3. If the intake or exhaust valve clearance is different from the specified values, loosen the locknut and turn the adjustment screw to set the correct clearance. Tightening the adjustment screw decreases the valve clearance, while loosening it increases the valve clearance.

The intake valve clearance (when cold) should be 0.09-0.11 mm, and the exhaust valve clearance (when cold) should be 0.14-0.16 mm.

Since valve adjustment is a complex process, it is recommended that you have this adjustment done by professionals at an authorized dealer.

Engine maintenance precautions

1. Starting the engine

Gently operate the throttle when starting the engine. After idling for 30-60 seconds, gradually open the throttle. Do not accelerate immediately after a cold start. Allow the engine to idle for 1-3 minutes before increasing speed.

2. Electric start

Each attempt to start the engine should not exceed 5 seconds. Allow a 10-second interval between each attempt. If the engine fails to start after 5 attempts, inspect for potential issues. Once the engine is running, do not press the start switch again.

3. After the engine starts

Allow the engine to idle for 3-5 seconds to ensure the lubrication system is functioning before riding. Avoid running the engine at high RPMs or under heavy load before it is properly warmed up.

4. Engine break-in

During the first 1000 km, avoid high-speed or extended operation. Do not exceed 80% of the engine's maximum RPM. Do not operate the throttle fully open. After 500 km, have the engine serviced to address minor wear during the break-in period, ensuring long-term engine performance.

5. Maintenance every 2000 km

Clean the oil-gas separator and inspect/clean the air filter. Remove accumulated oil from the separator and ensure that all air filter seals are intact. Clean dust from the filter chamber and filter element. Replace or repair any parts with compromised seals. Proper air filtration helps extend the life of the engine piston and cylinder, preventing issues such as oil burning or power loss.

ABS maintenance instructions

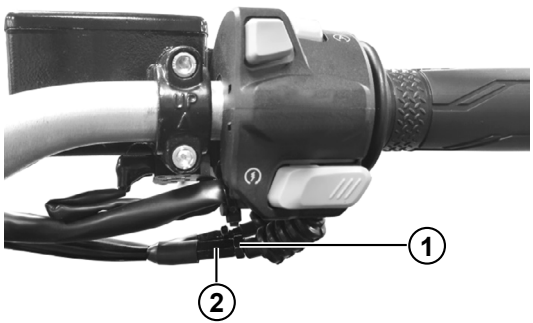
Upon turning on the ignition switch, the ABS indicator on the instrument panel will illuminate, indicating normal operation. Once the riding speed reaches 10 km/h, the ABS indicator will turn off, indicating that the ABS is functioning normally.

If the ABS system encounters a fault while riding, the ABS indicator will illuminate. In this case, you should:

- Ensure the ABS plug is securely connected.
- Verify that the clearance between the ABS wheel speed sensors and the toothed ring is within the 0.5-1.2 mm range.
- Inspect the sensor tips for any metallic substances that may be adhering to them.

After checking and rectifying any issues, the ABS indicator should extinguish once the riding speed reaches 10 km/h. If the issue persists, please contact your dealer or the company's after-sales service for further assistance.

Checking the free play of the throttle grip



The free play of the throttle grip must be maintained between 2-6 mm. If this free play is not correctly set, please adjust it.

Use an appropriate tool to loosen the locknut (1).

Turn adjustment screw (2) clockwise to decrease the free play, while turn it counterclockwise to increase the freeplay.

Once the desired freeplay is achieved, tighten the locknut to secure the adjustment.

Note: This vehicle utilizes a dual throttle cable system, and both cables can be adjusted.

Air filter

Clean the air filter

1. Open the seat: Turn the ignition switch to the SEAT position and press the SEAT button to open the seat (Fig 1).

2. Remove the rear storage box: Unscrew the 12 bolts securing the rear storage box (Fig 2).

3. Disconnect the air filter:

- Loosen the intake pipe bolt on the air filter (Fig 3).
- Remove the 5 bolts securing the engine side cover (Fig 4).
- Remove the bolts securing the air filter to the rear fender (Fig 5).
- Unscrew the 2 bolts holding the air filter in place (Fig 6).

4.Remove the air filter:

- Take out the air filter.
- Unscrew the 8 bolts securing the air filter cover (Fig 7).
- Remove the air filter cover.
- Take out the air filter element (Fig 8).

5. Clean the filter element: Use an air gun to blow

away dust. If the filter is too dirty, replace it with a new one.

6. Reassemble: Reinstall all components in the reverse order of removal.

Replacing the air filter element

It is recommended that you have the air filter element replaced at an authorized dealer.

Fig 1

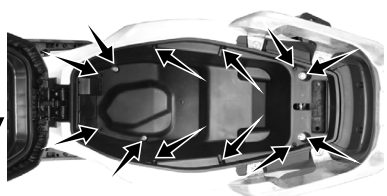


Fig 2

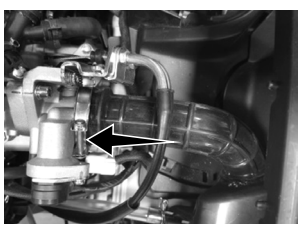


Fig 3

Fig 4

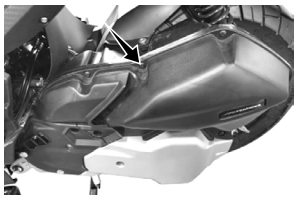


Fig 5

Fig 6

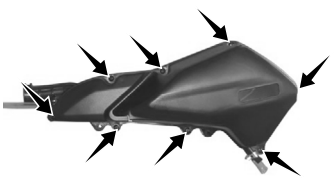


Fig 7

Fig 8

Tire

Regular checks

It's essential to regularly check tire pressure. Incorrect pressure can lead to abnormal tire wear, affecting handling and safety.

Recommended tire pressure

Front Tire: 225 kPa (2.25 bar)

Rear Tire: 225 kPa (2.25 bar)

Tire wear

If tire tread reaches the wear limit (T ≤ 0.8 mm), it is recommended to have the tires replaced at an authorized dealer.

Tire replacement

When replacing tires, ensure they are of the same brand and model. If a tire is punctured, do not install a tube inside the tire.

Environmental consideration

Tires contain materials harmful to the environment, so it's important to dispose of them properly. Authorized dealers have the appropriate methods for disposing of used tires.

Brake

Warning: It is recommended to have brake components replaced at an authorized dealer.

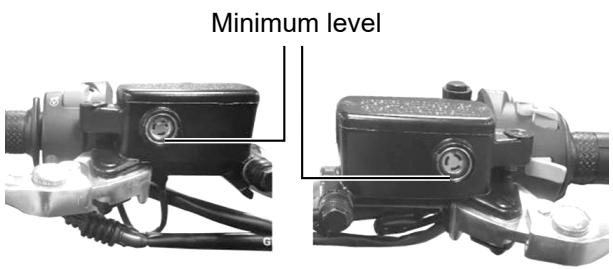
Brake pads

Brake pads should be replaced promptly when they reach their wear limit.

The minimum thickness for brake pads is 2.0 mm.

If either brake pad wears down to the minimum thickness, both pads should be replaced simultaneously.

Brake fluid



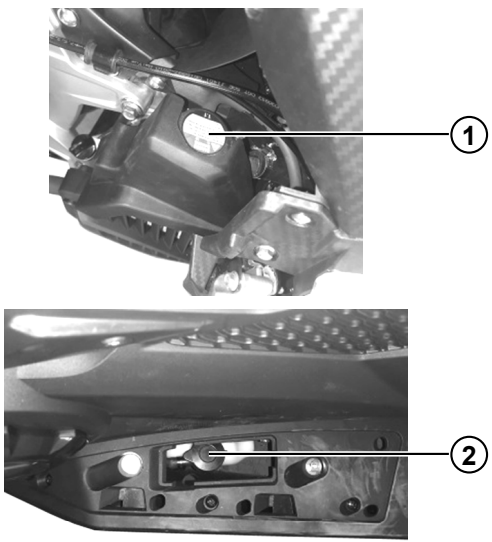
Caution: The brake fluid level must be checked regularly. This can be done through the brake fluid observation window.

If the brake fluid (DOT3 or DOT4) reaches the minimum level, it is advised to visit an authorized dealer for inspection and possible refilling.

Cooling system

This scooter features a liquid-cooling system and requires a specially formulated coolant.

Adding coolant



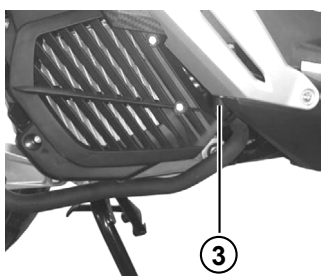
1. Place the vehicle on level ground and support it with the main stand.

2. Open the radiator cap (1) and fill the radiator with coolant.

3. Start the engine and let it alternate between idle and higher RPMs 2-3 times. Then, add coolant to the radiator until full. Reinstall and tighten the radiator cap.

4. Remove the rubber mat from the right footpeg, open the footpeg cover, then open the reserve tank cap (2) and fill the reserve tank with coolant. Ensure the coolant level is between the LOWER and UPPER marks, then reinstall the reserve tank cap.

Replacing coolant



1. Place the vehicle on level ground and support it with the main stand.

2. Allow the engine to cool completely.

3. Position a container beneath the drain valve at the

bottom of the radiator. Remove the hose (3) and let the coolant drain completely.

4. Once drained, reattach the hose and add fresh coolant to the radiator as needed.

Note: Avoid opening the radiator when the temperature is high, as the high-temperature liquid in the radiator can boil violently upon a sudden pressure drop, leading to coolant spraying and potentially burning the skin.

During engine maintenance, if it is necessary to loosen the cylinder nuts, please drain the coolant first to prevent coolant from entering the crankcase.

Cooling system maintenance

The cooling system should be maintained every 4000 kilometers.

1. Leak inspection

Check for leaks at the connection between the water pump and the circulation hose. Inspect the circulation hose for damage and aging. Press the hose with your finger to check for cracks for timely replacement. Check the mechanical seal for damage through the leak inspection hole. If there is coolant leakage, please contact a professional repair technician; do not attempt to disassemble it yourself.

2. Coolant inspection

Check the coolant level in the radiator reservoir, as some evaporation may naturally occur during use; if the level is too low, it needs to be topped up. When adding coolant, please use coolant of the same concentration and brand; adding water is prohibited.

Check if the coolant in the radiator has become cloudy or has reached its replacement cycle (once a year); if either situation occurs, please replace the coolant promptly.

Coolant capacity: 625 ± 25ml

Note: Please avoid mixing coolants of different concentrations and brands.

Battery

Note: When inspecting the battery, ensure that all connections are disconnected before operation. When starting the vehicle, make sure the battery is connected properly to avoid damaging electrical components. The battery electrolyte contains harmful substances; if you need to replace or maintain the battery, it is recommended to go to an authorized dealer. Dispose of electrolytes and used batteries according to relevant regulations; do not discard them randomly, as it can cause environmental pollution.

Battery installation and removal

The battery box is located inside the seat. To install (or remove) the battery, first open the seat cushion and remove the battery box cover.

When installing the battery, connect the positive terminal (red cable terminal, marked with +) first, then connect the negative terminal (black cable terminal, marked with -). Once the cables are connected, place the battery back into the battery box.

To remove the battery, follow the reverse order: first disconnect the negative terminal, then disconnect the positive terminal.

Battery charging

Battery charging should be done in a well-ventilated area. Using an appropriate charger can help prevent premature battery damage; therefore, it is recommended to perform this operation at an authorized dealer.

The battery electrolyte contains sulfuric acid; avoid contact with eyes and skin. When charging the battery, there may be a release of explosive gases, so keep it away from open flames and incandescent lights.

Maintenance-free battery

Do not open the maintenance-free battery cover to add electrolyte.

Maintenance of the battery for long periods of inactivity

If the vehicle is not used for an extended period, the battery will undergo gradual self-discharge, so regular charging is necessary.

If the battery will not be used for a month or longer, it must be properly protected:

- After removing the battery, charge it to 100%.
- Charge it regularly or once a month.
- Ensure the battery is 100% charged before using it again.

Warning: If you do not follow these recommendations, the battery may become deeply discharged, and the

warranty will no longer be valid.

Replacing the lights

All lights on this vehicle are LED. If replacement is necessary, the entire fixture must be replaced. It is recommended to contact an authorized dealer for this operation.

Fuses

The fuse box is located inside the battery box beneath the seat cushion. To replace a fuse, open the seat, remove the battery box cover, and you will see the fuse box. Open the fuse box cover and replace the faulty fuse.

The fuse box contains six fuses: four active fuses (1) arranged in a row, followed by two spare fuses (2) next to them. The 20A fuse protects all electrical components of the vehicle, the 10A fuse protects the power outlet, while the 25A and 15A fuses protect the ABS and its associated system circuits.

If a fuse frequently blows, it usually indicates a short circuit in a wiring line. It is recommended to visit an authorized dealer to diagnose the cause of the fault.

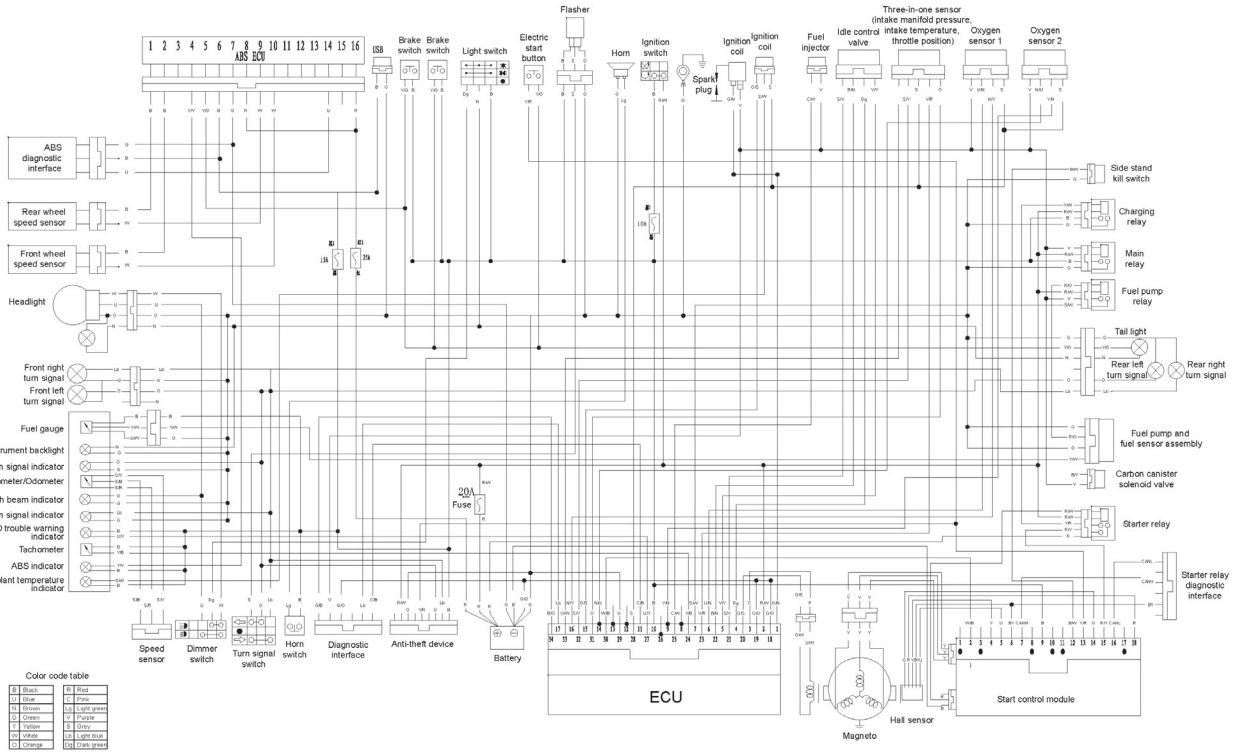
Note: Before replacing a fuse, you must identify and correct the fault. Always replace it with a fuse of the same type. Please turn off the ignition switch before replacing the fuse to avoid the risk of fire.

To check the fuse, observe whether the wire is broken:

Main Technical Parameters Table

I. Vehicle parameters	
Dimensions (L×W×H) (mm)	1940×770×1285
Wheelbase (mm)	1335
Minimum ground clearance (mm)	140
Rake angle (°)	27
Curb weight (kg)	145
Rated maximum load capacity (kg)	160
Maximum design speed (km/h)	95
Wheel type	Aluminum/Spoked
Front tire size	100/80-14
Rear tire size	130/70-13
Front suspension type	Hydraulic damping
Rear suspension type	Air resistance
Front brake type	Disc, ABS
Front brake control	Hand brake
Rear brake type	Disc, ABS
Rear brake control	Hand brake
Fuel tank capacity (L)	10
Fuel grade	RON 92 or higher
II. Engine parameters	
Engine model	1P52MI-4
Engine type	Liquid-cooled, four-stroke
Bore × Stroke (mm)	φ52.4×57.9
Displacement (ml)	125
Compression ratio	12:1
Maximum power & corresponding speed [kW/(r/min)]	8.9/8500
Maximum torque & corresponding speed [Nm/(r/min)]	11.7/6500
Idle speed (r/min)	1800 ± 100
Lowest fuel consumption rate (g/kW·h)	345
Ignition system	ECU
Starting method	Electric start
Lubrication method	Splash and pressure
Recommended engine oil	SG 10W-40 (of higher)
Oil change (L)	0.8
Coolant quantity (ml)	625 ± 25
Injector type	EFI (Electronic Fuel Injection)
Air filter type	Paper element
III. Electrical system	
Battery specification	12V9AH
Spark plug model	CPR8EA-9
Headlight	LED 12V
Front turn signal	LED 12V
Rear turn signal	LED 12V
Tail light	LED 12V
License plate light	LED 12V
Speedometer type	Electric

Circuit Diagram



KEEWAY

XDV 125 EVO
XDV 125 EVO PRO