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CUB PRO 125

Owner's Manual

should remain with the vehicle when it is resold.

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The vehicle pictured in this owner' s manual may not match your actual vehicle.

Welcome

Congratulations on your purchase of a new Kamax vehicle. Your selection of a Kamax makes you part of a worldwide family of satisfied customers who appreciate Kamax's reputation for building quality into every product.

To ensure your safety and riding pleasure:

- Read this owner's manual carefully.
- Follow all recommendations and procedures contained in this manual.
- Pay close attention to safety messages contained in this manual and on the vehicle.

● The illustrations here in are based on the T125 ABC type.

*The specifications may vary with each locale.

A Few Words About Safety

Your safety, and the safety of others, is very important. Operating this vehicle safely is an important responsibility.

To help you make informed decisions about safety, we have provided operating procedures and other information on safety labels and in this manual. This information alerts you to potential hazards that could hurt you or others.

Of course, it is not practical or possible to warn you about all hazards associated with operating or maintaining a vehicle. You must use your own good judgement.

You will find important safety information in a variety of forms, including:

- Safety labels on the vehicle
- Safety Messages preceded by a safety alert symbol  and one of three signal words: DANGER, WARNING, or CAUTION. These signal words mean:

3DANGER

You **WILL** be **KILLED** or **SERIOUSLY HURT** if you don't follow instructions.

3WARNING

You **CAN** be **KILLED** or **SERIOUSLY HURT** if you don't follow instructions.

3CAUTION

You **CAN** be **HURT** if you don't follow instructions.

Other important information is provided under the following titles:

NOTICE Information to help you avoid damage to your vehicle, other property, or the environment.

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Vehicle Safety	P.1	
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Safety Guidelines

Safety Guidelines

Follow these guidelines to enhance your safety:

- Perform all routine and regular inspections specified in this manual.
- Stop the engine and keep sparks and flames away before filling the fuel tank.
- Do not run the engine in enclosed or partly enclosed areas. Carbon monoxide in exhaust gases is toxic and can kill you.

Always Wear a Helmet

It's a proven fact: helmets and protective apparel significantly reduce the number and severity of head and other injuries. So always wear an approved helmet and protective apparel.

Before Riding

Make sure that you are physically fit, mentally focused and free of alcohol and drugs. Check that you and your passenger are both wearing an approved helmet and protective apparel.

Instruct your passenger on holding onto the seat strap or your waist, leaning with you in turns, and keeping their feet on the footpegs, even when the vehicle is stopped.

Take Time to Learn & Practice

Even if you have ridden other vehicles, practice riding in a safe area to become familiar with how this vehicle works and handles, and to become accustomed to the vehicle's size and weight.

Safety Guidelines

Ride Defensively

Always pay attention to other vehicles around you, and do not assume that other drivers see you. Be prepared to stop quickly or perform an evasive maneuver.

Make Yourself Easy to See

Make yourself more visible, especially at night, by wearing bright reflective clothing, positioning yourself so other drivers can see you, signaling before turning or changing lanes, and using your horn when necessary.

Ride within Your Limits

Never ride beyond your personal abilities or faster than conditions warrant. Fatigue and inat-

tention can impair your ability to use good judgement and ride safely.

Don't Drink or Use Drugs and Ride

Alcohol or drugs and riding don't mix. Even one alcoholic drink can reduce your ability to respond to changing conditions, and your reaction time gets worse with every additional drink. The same is true for drug use. Don't drink or use and ride, and don't let your friends do it either.

Keep Your Kamax in Safe Condition

It's important to keep your vehicle properly maintained and in safe riding condition. Inspect your vehicle before every ride and per-

Safety Guidelines

form all recommended maintenance. Never exceed load limits, and do not modify your vehicle or install accessories that would make your vehicle unsafe.

Carbon Monoxide Hazard

Exhaust contains poisonous carbon monoxide, a colourless, odorless gas. Breathing carbon monoxide can cause loss of consciousness and may lead to death.

If you run the engine in confined or even partly enclosed area, the air you breathe could contain a dangerous amount of carbon monoxide.

Never run your vehicle inside a garage or other enclosure.

3WARNING

Running the engine of your vehicle while in an enclosed or even partially enclosed area can cause a rapid build-up of toxic carbon monoxide gas.

Breathing this colourless, odorless gas can quickly cause unconsciousness and lead to death.

Only run your vehicle's engine when it is located in a well ventilated area outdoors.

Image Labels

The following pages describe the label meanings. Some labels warn you of potential hazards that could cause serious injury. Others provide important safety information. Read this information carefully and don't remove the labels.

If a label comes off or becomes hard to read, contact your dealer for a replacement.

There is a specific symbol on each label. The meanings of each symbol and label areas follows.



DANGER (with RED background)

You **WILL** be **KILLED** or **SERIOUSLY HURT** if you don't follow instructions.

WARNING (with ORANGE background)

You **CAN** be **KILLED** or **SERIOUSLY HURT** if you don't follow instructions.

CAUTION (with YELLOW background)

You **CAN** be **HURT** if you don't follow instructions.



Read instructions contained in Owner's Manual carefully.



Read instructions contained in Shop Manual carefully. In the interest of safety, take the vehicle to be serviced only by your dealer.

Image Labels

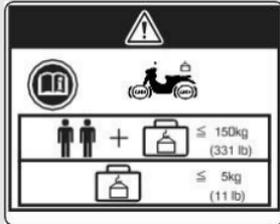


BATTERY LABEL DANGER

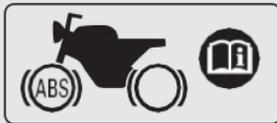
- Keep flame and spark away from the battery. Battery produce explosive gas that can cause explosion.
- Wear the eye protection and rubber gloves when handling the battery, or you can get burned or lose your eyesight by the battery electrolyte.
- Do not allow children and other people to touch a battery unless they understand proper handling and hazards of the battery very well.
- Handle the battery electrolyte with extreme care as it contains dilute sulfuric acid. Contact with your skin or eyes can burn you or cause loss of your eyesight.
- Read this manual carefully and understand it before handling the battery. Neglect of the instructions can cause personal injury and damage to the vehicle.
- Do not use a battery with the electrolyte at or below the lower level mark. It can explode causing serious injury.

ACCESSORIES AND LOADING WARNING LABEL

ACCESSORIES AND LOADING



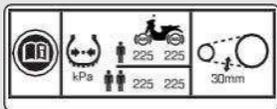
- The safety stability and handling of this vehicle may be affected by the addition of accessories and luggage.
- Read carefully the instructions contained in user's manual and installation guide before installing any accessory.
- The total weight of accessories and luggage added to rider's and passenger's weight should not exceed **150 kg**, which is the maximum weight capacity.
- The luggage weight must not exceed **5 kg** under any circumstances.
- The fitting of large fork-mounted or large handlebar mounted fairing is not recommended.



ABS INFORMATION LABEL

This model equipped with an Anti-lock Brake System (ABS) on front wheel.

Image Labels

**TYRE INFORMATION & DRIVE CHAIN LABEL**

Cold tyre pressure:

[Driver only]

Front 225kPa 2.25kgf/cm²,44psi)

Rear 225kPa 2.25kgf/cm²,49psi)

[Driver and passenger]

Front 225kPa 2.25kgf/cm²,44psi)

Rear 225kPa 2.25kgf/cm²,49psi)

Keep chain adjusted and lubricated.

Freeplay 25 - 35 mm

**SAFETY REMINDER LABEL**

For your protection, always wear helmet, protective apparel.

FUEL LABEL

Unleaded petrol only

ETHANOL up to 10 % by volume

Safety Precautions

- Ride cautiously and keep your hands on the handlebar and feet on the footpegs.
- Keep passenger's hands onto the seat strap or your waist, passenger's feet on the footpegs while riding.
- Always consider the safety of your passenger, as well as other drivers and riders.

Protective Apparel

Make sure that you and any passenger are wearing an approved helmet, eye protection, and high-visibility protective clothing. Avoid wearing loose clothes that could get caught on any part of the vehicle. Ride defensively in response to weather and road conditions.

I Helmet

Safety-standard certified, high-visibility, correct size for your head

- Must fit comfortably but securely, with the chin

strap fastened.

- Face shield with unobstructed field of vision or other approved eye protection

3WARNING

Not wearing a helmet increases the chance of serious injury or death in a crash.

Make sure that you and any passenger always wear an approved helmet and protective apparel.

I Gloves

Full-finger leather gloves with high abrasion resistance

I Boots or Riding Shoes

Sturdy boots with non-slip soles and ankle protection

I Jacket and Trousers

Protective, highly visible, long-sleeved jacket and durable trousers for riding (or a protective suit)

Riding Precautions

Riding Precautions

Running-in Period

During the first 500 km of running, follow these guidelines to ensure your vehicle's future reliability and performance.

- Avoid full-throttle starts and rapid acceleration.
- Avoid hard braking and rapid down-shifts.
- Ride conservatively.

Brakes

Observe the following guidelines:

- Avoid excessively hard braking and downshifting.

Sudden braking can reduce the vehicle's stability.

Where possible, reduce speed before turning; otherwise you risk sliding out.
- Exercise caution on low traction surfaces.

The tyres slip more easily on such surfaces and braking distances are longer.

- Avoid continuous braking.

Repeated braking, such as when descending long, steep slopes can seriously overheat the brakes, reducing their effectiveness. Use engine braking with intermittent use of the brakes to reduce speed.
- For full braking effectiveness, operate both the front and rear brakes together.

Anti-lock Brake System (ABS) on Front Wheel

This model equipped with an Anti-lock Brake System (ABS) designed to help prevent the front brake from locking up during hard braking.

- There is no ABS function to the rear wheel.
- ABS does not reduce braking distance. In cer-

tain circumstances, ABS may result in a longer stopping distance.

- ABS does not function at speeds below 10 km.
- The brake lever may recoil slightly when applying the brakes. This is normal.
- Always use the recommended front/rear tyres and sprockets to ensure correct ABS operation.

| Engine Braking

Engine braking helps slow your vehicle down when you release the throttle. For further slowing action, downshift to a lower gear. Use engine braking with intermittent use of the brakes to reduce speed when descending long, steep slopes.

| Wet or Rainy Conditions

Road surfaces are slippery when wet, and wet brakes further reduce braking efficiency.

Exercise extra caution when braking in wet conditions.

If the brakes get wet, apply the brakes while riding at low speed to help them dry.

Parking

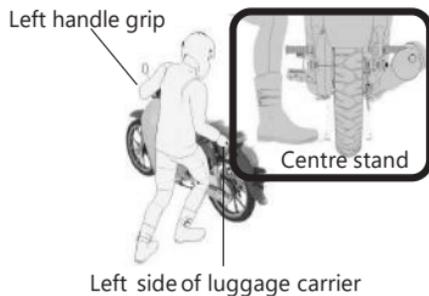
- Park on a firm, level surface.
- If you must park on a slight incline or loose surface, park so that the vehicle cannot move or fall over.
- Make sure that high-temperature parts cannot come into contact with flammable materials.
- Do not touch the engine, muffler, brakes and other high-temperature parts until they cool down.
- To reduce the likelihood of theft, always lock the handlebar, lock the ignition switch. Use of an anti-theft device is also recommended.

Riding Precautions

Also set the anti-theft alarm system.

1 Parking with the Centre Stand

1. Stop the engine.
2. To lower the centre stand, stand on the left side of the vehicle.
Hold the left handle grip and the left side of luggage carrier.
Press down on the tip of the centre stand with your right foot and, simultaneously, pull up and back.
3. Turn the handlebar fully to the left.



4. Turn the ignition switch to the Lock position and lock the ignition switch.
5. Set the anti-theft alarm system.

Refuelling and Fuel Guidelines

Follow these guidelines to protect the engine, fuel system and catalytic converter:

- Use only unleaded petrol.
- Use recommended octane number. Using lower octane petrol will result in decreased engine performance.
- Do not use fuels containing a high concentration of alcohol.
- Do not use stale or contaminated petrol or an oil/petrol mixture.
- Avoid getting dirt or water in the fuel tank.

Accessories

3WARNING

Improper accessories or modifications can cause a crash in which you can be seriously hurt or killed.

Follow all instructions in this owner's manual regarding accessories and modifications.

Do not pull a trailer with, or attach a sidecar to, your vehicle. Your vehicle was not designed for these attachments, and their use can seriously impair your vehicle's handling.

Loading

Loading

3WARNING

Overloading or improper loading can cause a crash and you can be seriously hurt or killed.

Follow all load limits and other loading guidelines in this manual.

- Carrying extra weight affects your vehicle's handling, braking and stability.

Always ride at a safe speed for the load you are carrying.

- Avoid carrying an excessive load and keep within specified load limits.

Maximum weight capacity/Maximum luggage weight 150KG

- Tie all luggage securely, evenly balanced, and close to the centre of the vehicle.
- Do not place objects near the lights or the muffler.

Basic Operation Flow

I Pre-ride Inspection(P.71)

How to use basic features.

- Instruments (P.19)
- Indicators (P.44)
- Switches (P.20)
- Steering Lock (P.23)
- Kamax SMART Key System (P.24)
- Anti-theft Alarm System(P.26)
- RKE Finding Moto (P.26)



Carefully inspect your vehicle to make sure that it is safe to ride.

I Acceleration



Apply throttle gradually.
Obey the speed limit.

I Shift Change (P.37)

I Starting the Engine (P.35)

Start and warm the engine.
Avoid revving the engine.



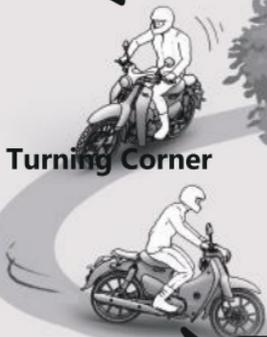
Before pulling away, indicate your direction with the turn signal switch, and check for oncoming traffic.



I Starting the Vehicle

Do your braking before entering corners.

Turning Corner



Gradually reapply throttle when exiting turn.

Braking

STOP!

Close the throttle and apply the front and rear brakes together. **U**
The brakelight will indicate that you have applied the brakes.

Stopping

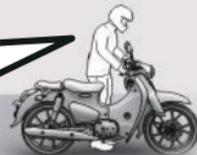
If pulling off the road, signal early enough to show traffic that you are pulling over, and pull over smoothly.



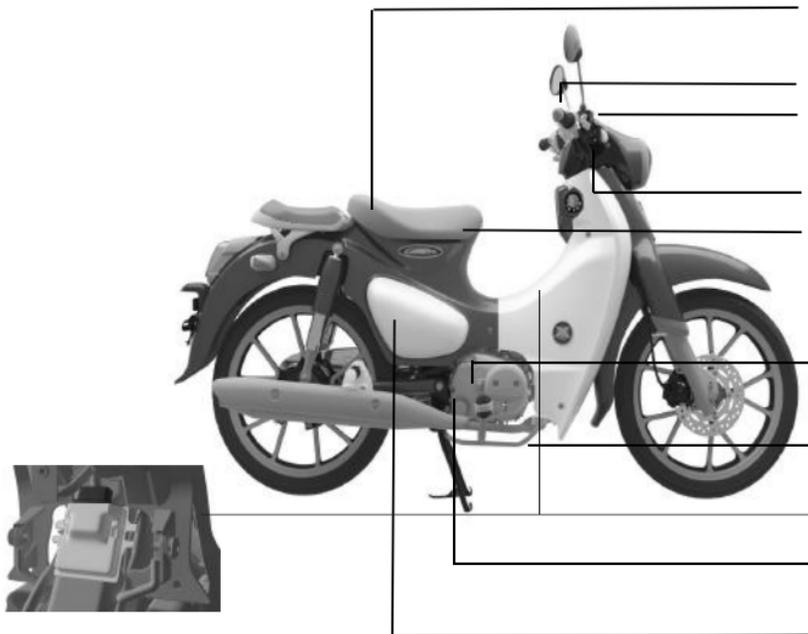
Refuelling (P.38)

Park on a firm level surface. Use the stand, and lock the steering.

Parking (P.11)

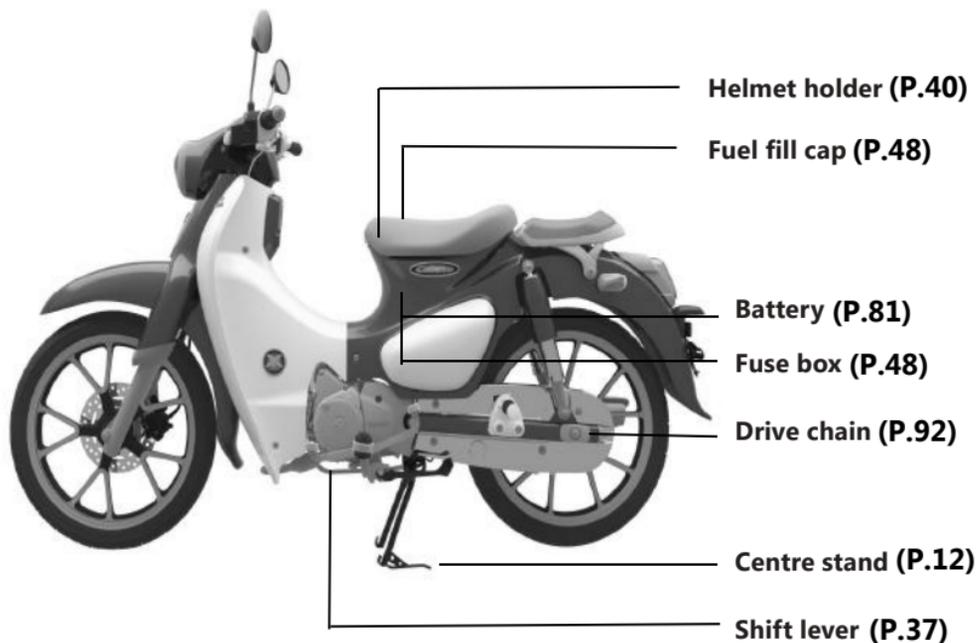


Parts Location



- Right side cover opener switch (P.41)
- Throttle grip (P.94)
- Front brake fluid reservoir (P.86)
- Front brake lever
- Helmet holder (P.40)
- Right side cover (P.41)
- Engine oil fill cap/dipstick (P.84)
- Rear brake pedal (P.88)
- ECU
- Brakelight switch (P.91)
- Document bag (P.41)
- Tool kit (P.41)

Parts Location



Instruments



To pair the tire pressure:

Press and hold the button to power on and enter pairing mode. The clock position displays FR--, and the mileage position displays RR--.

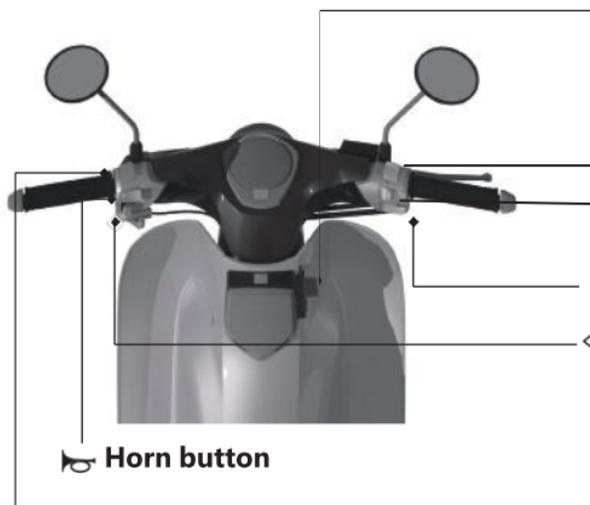
Press the button briefly to enter and exit the learning mode for the front and rear tires. Press and hold the button to switch between tires. After completing the rear tire learning, press and hold the button to exit the tire pressure pairing mode.

Tire pressure alarm: the front tire pressure value is 1.3-2.5KPA, and the rear tire pressure value is 1.5-2.8KPA. If the tire pressure exceeds or is below the specified values, the tire pressure alarm symbol lights up, and the corresponding tire pressure value turns red.

Short press the button to switch between total and subtotal; long press the button to clear the subtotal; long press the button while in the total mode to enter clock setting; short press the button to increase the value, long press the button to move to the next digit.

Switches (EFI)

Switches (EFI)



 **Ignition switch**

Switches the electrical system on/off and locks the steering.

To unlock the ignition switch:

Emergency button

Caution lights

Start button

 **Turn signal switch**

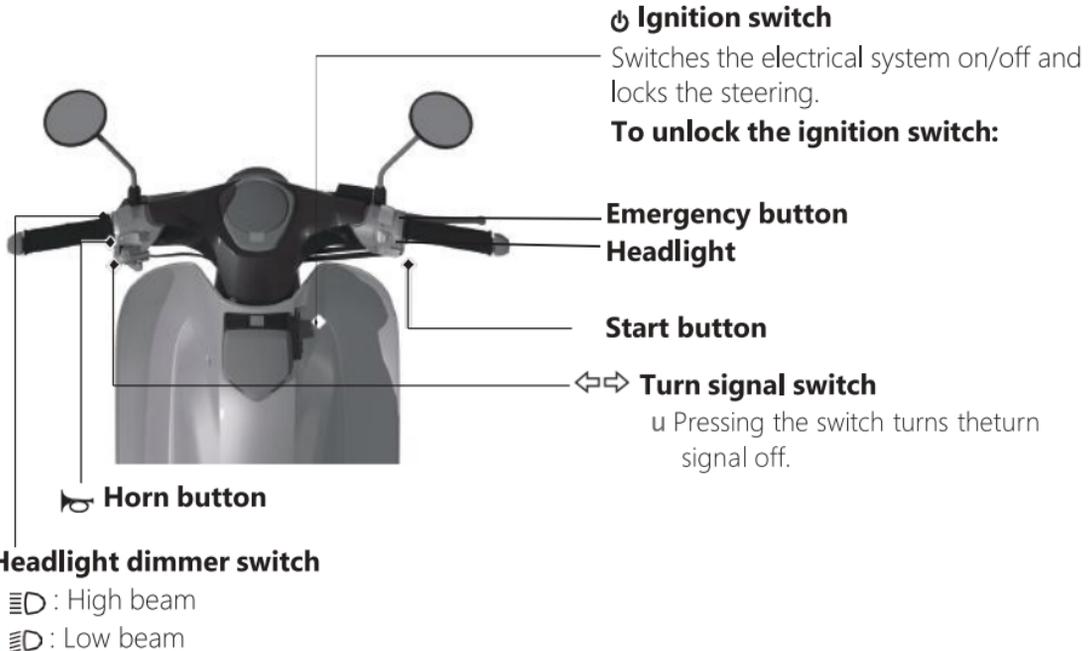
u Pressing the switch turns the turn signal off.

 **Horn button**

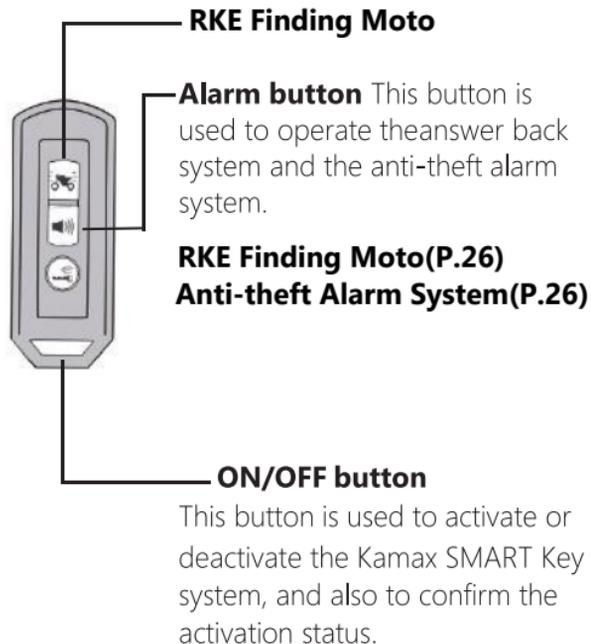
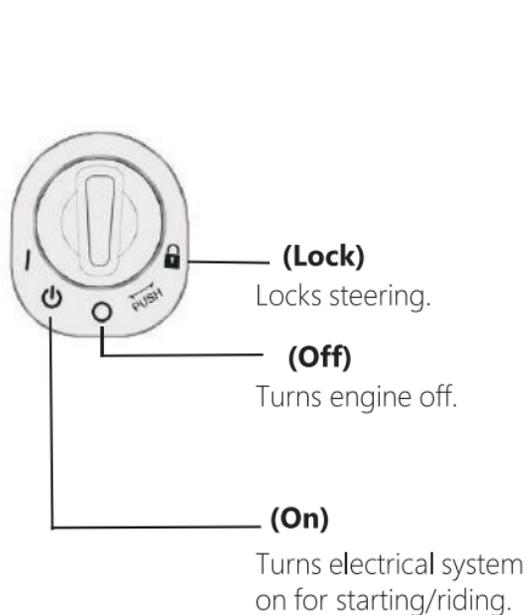
Headlight dimmer switch

- : High beam
- : Low beam

Switches(Carburetor)



Switches(Carburetor)

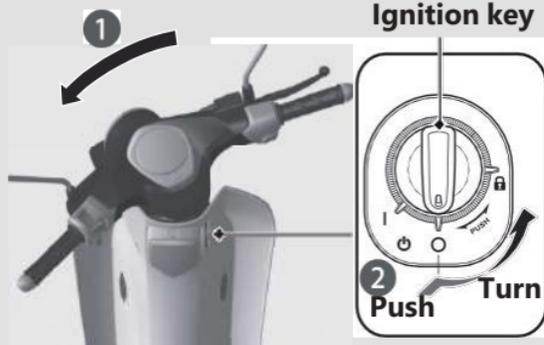


Switches *(Continued)*

Steering Lock

Lock the steering when parking to help prevent theft.

A U-shaped wheel lock or similar device is also recommended.



| Locking

! a Turn the handlebar all the way to the left.

! b Push the ignition switch down, and turn it to the  (Lock) position.

u To unlock the ignition switch.

u Jiggle the handlebar if the lock is difficult to engage.

! c Lock the ignition switch.

| Unlocking

Push the ignition switch in, and turn it to the  (Off) position.

u To unlock the ignition switch.

Kamax SMART Key System

Kamax SMART Key System

Smart system device for vehicle

The Kamax SMART Key system allows you to operate the main switch without inserting a key into a keyhole. The system runs a two-way authentication between the vehicle and the Kamax SMARTKey to verify if it is the registered Kamax SMART Key.

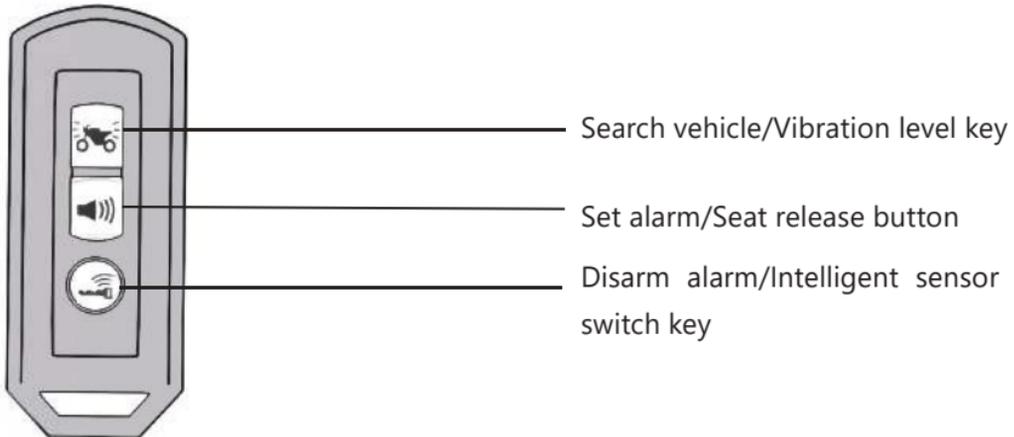
The Kamax SMART Key system uses low- intensity radio waves. It may affect medical equipment such as a cardiac pacemaker.

Kamax SMART Key System

Smart system device for vehicle

1.Functions of remote control buttons

The remote control has three buttons: search vehicle, set alarm, and disarm alarm. It can only respond to remote control operations when in the OFF mode.



Kamax SMART Key System

2.Theft prevention system (arming)

When the IGN is turned off and the set button is pressed within 30 seconds, the vehicle enters the armed state. The turn signals flash once (1Hz) and the horn sounds once.

3.Disarming the Anti-Theft System

Inductive Unlocking: When the ignition switch is turned off, press the ignition lock switch button, and the smart key is within the induction range (0-1.5 meters):

a. After the central control and smart key authentication are passed, the electromagnetic valve is unlocked for 5 seconds, and the backlight of the ignition lock switch (blue) and the unlock indicator light on the instrument panel are on for 5 seconds.

b. If the central control and smart key authentication fails, it maintains the original anti-theft state and does not output any other actions.

RKE Key Unlocking in Armed State: Press the unlock button on the adapted smart key. After the central control and smart key authentication are passed, the electromagnetic valve is unlocked for 5 seconds, and the backlight of the ignition lock switch (blue) and the unlock indicator light on the instrument panel are on for 5 seconds. The left and right turn signals flash twice (1Hz), and the horn sounds twice in synchronization.

4.RKE Finding Moto Function

Only respond to remote control operation when in OFF gear

Press the smart key's Finding Moto button; the left and right turn signals flash 3 times (2HZ), and the horn synchronously sounds 3 times.

5. Electromagnetic Valve Control

When the ignition switch is in the off state, the controller detects whether the motorcycle lock button is pressed. If the key is within 1.5 meters, the controller will open the electromagnetic valve and simultaneously disarm the anti-theft system. If the key is not within range, the controller will not respond.

When the current setting condition is met, the following conditions are met, and the electromagnetic valve will output for 5 seconds:

The unlock switch request is received and PKE authentication is successful;
RKE disarm is effective.

6. Control of seat lock

When any of the following conditions are met, the seat lock output will be executed once:

In the unlocked state or PKE authentication is successful, the controller detects that the ignition lock switch is pressed and held for 2 seconds, and then opens the seat lock once.

Receive the RKE open seat signal (press and hold the lock key for 2 seconds), and then open the seat lock once. Vibration detection is prohibited within 30 seconds after opening the seat.

Kamax SMART Key System

7.Key Ring Light:

When the system power is in the OFF state, if a request is received from the ignition lock switch and PKE authentication is successful, or if an RKE unlock is valid, the light will gradually illuminate for 5 seconds before gradually dimming. When the system power is switched from ON to OFF, the light will gradually illuminate for 5 seconds before gradually dimming.

8.Anti-theft indicator light:

When the system power is OFF, and an electric door lock button request is received and PKE authentication is successful, the indicator light will light up for 5 seconds.

When the system power is OFF, and an electric door lock button request is received without

successful authentication, the indicator light will flash 3 times within 1 second as a warning.

When the system power is ON and the system is functioning normally, the anti-theft indicator light will not be activated.

9.Vibration alarm:

When the system is armed, the vehicle vibration detection function is enabled.

If the system is armed and detects a vibration signal, the turn signal lights will flash 10 times (2HZ) and the horn will sound 10 times "Bi-Bi-Bi".

If continuous vibration is detected, the alarm will continue to sound.

10.Setting Vibration Sensitivity:

Press and hold the find-car button for 3 seconds. The turn signal lights will stay on continuously to indicate that the device has entered the vibration sensitivity programming state. Each time the unlock button is pressed, the vibration sensitivity level will switch between level 1, 2, 3, 4, and 5, with level 1 being the least sensitive and level 5 being the most sensitive. When switching the sensitivity setting, the turn signal lights will flash once, and the horn will beep once for level 1, twice for level 2, three times for level 3, and so on. After selecting the appropriate sensitivity level, press the find-car button to confirm and exit. The factory default setting is level 3.

When the controller receives a new sensitivity

level setting command, it will replace the old sensitivity level.

Note that if there is no operation within 10 seconds after entering the sensitivity setting program, the device will automatically exit the setting state, and the original state will remain unchanged.

11. Automatic arming function:

After the following conditions are met:

When the power is turned on, if the ignition is not switched to the ON position within 30 seconds, the system will automatically return to the arming state;

If the IGN is switched from ON to OFF position,

Kamax SMART Key System

and not switched back to ON position within 30 seconds, the system will automatically return to the arming state;

If the vehicle is armed and the unlock switch of the key is pressed successfully, and not switched to the ON position within 30 seconds, the system will automatically return to the arming state;

If the vehicle is armed and the remote control is used to unlock successfully, and not switched to the ON position within 30 seconds, the system will automatically return to the arming state.

12. Kamax Smart Key Induction Unlocking Enable/Disable Function

Press and hold the key unlock button for 3 sec-

onds. The LED light on the remote control will show green, indicating that the induction unlocking is enabled. The LED light on the remote control will show red, indicating that the induction unlocking is disabled.

When one of the keys turns off the smart induction, after using the other key that has not turned off the smart induction to unlock once, the controller automatically turns on the smart induction function.

When both keys turn off the smart induction function, you need to press and hold any key unlock button to enable the smart induction function.

13. Riding key loss reminder (equivalent to anti-theft)

If the vehicle is in IGN-ON state and vibrates, the controller will check the key every 30 seconds during the first 5 minutes of IGN-ON. If the key is detected to be normal for riding, no alert will be issued. If the key is not detected for 3 consecutive checks, the controller will sound the horn once and the instrument panel will flash 3 times in 1 second intervals, with a 10-second interval between each alert. This will repeat for up to 10 times. If the key is detected during the alert, the alert will stop immediately.

After the first 5 minutes of IGN-ON, the controller will check the key every 1 minute, and the alert will follow the same procedure as de-

scribed above based on the detection result. This function serves as a theft prevention measure.

14. Key unauthenticated detection during unlocking when IGN-OFF or arming alarm status

(1) When the controller is directly switched to IGN-ON status without authentication, the system considers the backup mechanical key to be valid and directly disarms the system.

(2) When switching directly to IGN-ON status in arming vibration alarm state, the system waits for the end of an alarm cycle and then disarms directly.

Kamax SMART Key System

15. Electric lock reminder function

The system detects unlocking (switching to IGN-ON state) and checks the key every 30 seconds. If there is no vibration, and the smart key has been away for more than 1 minute, the controller will sound an alert for unclosed electric lock, and perform a search vehicle action once.

16. Emergency unlock function for low battery of vehicle

When the vehicle has been parked for a long time, causing the battery to run low, and it needs to be pushed to charge, the emergency unlock function can be used by inserting the backup mechanical key into the keyhole of the ignition lock button, and rotating the button to

release the steering lock for easy pushing.

17. Electromagnetic valve protection function

When the controller first receives the "unlock switch signal", the electromagnetic valve starts outputting for 5 seconds and starts counting. Within 5 seconds after the electromagnetic valve stops, if the controller detects the "unlock switch signal" for the second time (note: if no signal is detected for more than 5 seconds after the electromagnetic valve stops, the previous count will be cleared and the count will start over), and the controller accumulates 5 counts within 30 seconds, it enters protection mode. In protection mode, it delays the response to the "unlock switch signal" for 30 seconds.

18. The overvoltage and undervoltage protection function:

When the controller is in awake state, it continuously monitors the power supply voltage in real-time. If the voltage remains below 7.5V or above 18.5V for 1 second, the input status detection and output control will be disabled. Once the voltage returns to the normal voltage range and remains so for 1 second, the function will be restored. The voltage detection hysteresis range is +/-0.5V.

19. Short-circuit protection function for turn signal output:

The controller constantly monitors the output current of the turn signal in real-time. When the current exceeds 4.5A, the controller auto-

matically disconnects the output to prevent damage to the chip.

20. Seat lock output short-circuit protection function

The controller real-time detects the output current of the seat lock output status. When the current is greater than 1.4A, the controller automatically cuts off the output to prevent damage to the chip.

21. Sleep condition definition

When the IGN is turned off for 30 seconds or the remote lock is successfully activated, the controller needs to execute the sleep logic when the following conditions are met:

Kamax SMART Key System

The ignition lock is not opened;
No output from the solenoid valve;
The keychain indicator light and start indicator light are not turned on;
No unlock request;
No vibration trigger.

22. The system can be awakened from the low-power sleep mode when any of the following conditions are detected:

Valid remote control instruction received;
Vibration trigger signal received;
ACC trigger signal received;

Valid unlock button signal received.

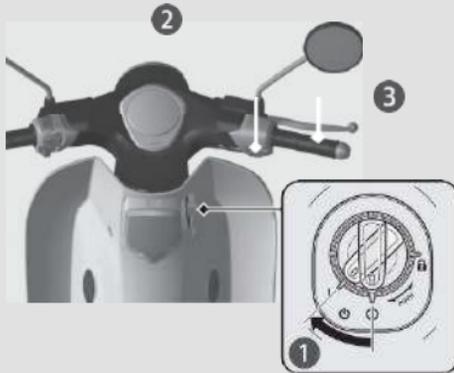
23. The remote control low battery detection function:

When the controller receives 3 consecutive low battery signals from the remote control, the controller will drive the start-up indicator on the instrument panel to gradually dim. The PWM frequency will decrease from 100% to 0% within one second, with a gradient of 5%, and will blink 5 times before turning off, prompting the vehicle owner to replace the key battery.

Starting the Engine

Start your engine using the following procedure, regardless of whether the engine is cold or warm.

This vehicle is equipped with a Kamax SMART Key system. Always keep Kamax SMART Key on you when you ride the vehicle.



NOTICE

- If the engine does not start within 5 seconds, turn the ignition switch to the **○** (Off) position and wait 10 seconds before trying to start the engine again to recover battery voltage.
- Extended fast idling and revving the engine can damage the engine and the exhaust system.
- Snapping the throttle or fast idling for more than about 5 minutes may cause exhaust pipe discoloration.

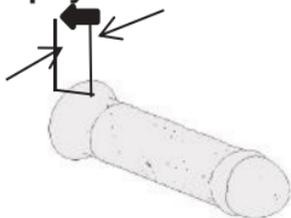
- a Turn the ignition switch to the **(On)** position.
- b Shift the transmission to Neutral (**N** indicator to come on).
- c Press the start button with the throttle completely closed.

Starting the Engine

If you cannot start the engine:

Open the throttle slightly (about 3 mm, without freeplay).

About 3 mm, without freeplay



If the engine does not start:

- a** Open the throttle fully and press the start button for 5 seconds.
- b** Repeat the normal starting procedure.
- c** If the engine starts, open the throttle slightly if idling is unstable.
- d** If the engine does not start, wait 10 seconds before trying steps **a** & again.

| If Engine Will Not Start (P43)

Shifting Gears

Your vehicle transmission has four forward gears.

The gearshift operation differs when stopping and when moving.

When stopping, change can be made from 4th to neutral directly with the 4-step rotary system. When moving, the forward 4-step return system is used.

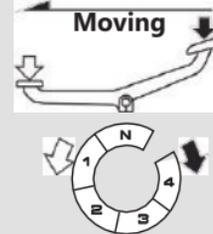
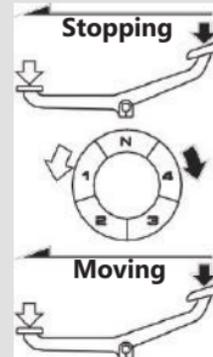
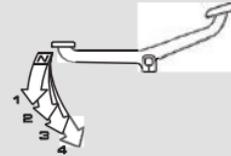
Change cannot be made from 4th to neutral directly

- u Always return the throttle grip first before changing gear.

- u Operate lightly with the tips of your toes until the shift lever is pushed down.

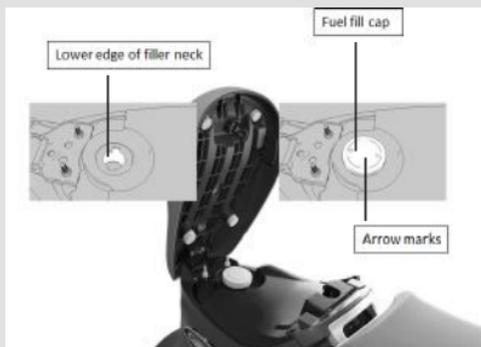
- u Avoid changing gear needlessly and riding with your foot on the shift lever since this may damage the gear change mechanism and clutch mechanism.

Proper shifting can prevent damaging the engine and transmission.



Refuelling

Refuelling



Do not fill with fuel above the lower edge of the filler neck.

Fuel type: Unleaded petrol only

Fuel octane number: Your vehicle is designed to use Research Octane Number (RON) 92 or higher.

Tank capacity: 3.8 L (1.00 US gal)

| Refuelling and Fuel Guidelines (P12)

Refuelling *(Continued)*

Opening the Fuel Fill Cap

- a Open the seat. **(P40)**
- b Turn the fuel fill cap counterclockwise until it stops and remove the cap.

Closing the Fuel Fill Cap

Install and tighten the fuel fill cap firmly by turning it clockwise.

- u Make sure that the arrow marks on the cap and fuel tank is aligned.

Close the seat.

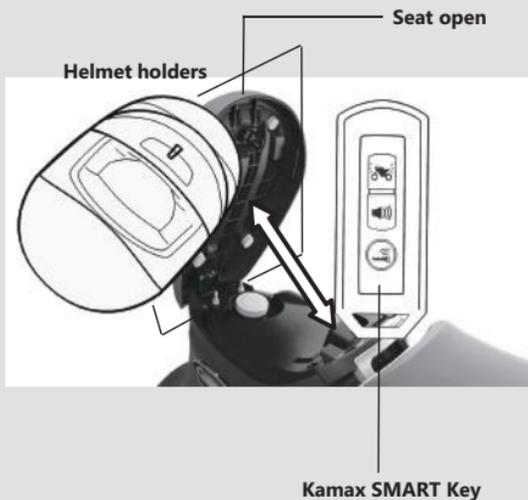
3WARNING

Petrol is highly flammable and explosive. You can be burned or seriously injured when handling fuel.

- Stop the engine, and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

Storage Equipment

Storage Equipment



Seat Open

The seat open button can be operated when the Kamax SMART Key is in the operating range, the Kamax SMART Key system is active and the ignition switch is in the ○ (Off) or 🔒 (Lock) position.

Right Side Cover

| Open

- ! Open the seat.
- ! Push the right side cover opener switch.

| Close

Close the right side cover until it locks.



Document Bag/Tool Kit

The document bag and tool kit are held by the rubber band in the document compartment behind the right side cover.

| Opening the seat.

Luggage Carrier

The luggage weight must not exceed 5 kg under any circumstances.

Maximum luggage weight: 5 kg



Engine Will Not Start	P.43
Warning Indicators On or Flashing ...	P.44
PGM-FI (Programmed Fuel Injection) Malfunction Indicator Lamp (MIL)	P.44
ABS (Anti-lock Brake System) Indicator	P.45
Tyre Puncture	P.46

Electrical Trouble	P.47
Battery Goes Dead	P.47
Burned-out Light Bulb	P.47
Blown Fuse	P.48
Unstable Engine Operation Occurs Inter- mittently	P.49

Engine Will Not Start

Starter Motor Operates But Engine Does Not Start

Check the following items:

- Check the correct engine starting sequence.
- Check that there is petrol in the fuel tank.
- Check if the PGM-FI malfunction indicator lamp (MIL) is on.
 - u If the indicator lamp is on, contact your dealer as soon as possible.

Starter Motor Does Not Operate

Check the following items:

- Check the correct engine starting sequence.
- Check for a blown fuse.
- Check for a loose battery connection or battery terminal corrosion
- Check the condition of the battery. If the problem continues, have your vehicle inspected by your dealer.

Troubleshooting

Warning Indicators On or Flashing

PGM-FI (Programmed Fuel Injection) Malfunction Indicator Lamp (MIL)

Reasons for the indicator lamp to come on or blink

- Comes on if there is a problem with the engine emissions control system.
- Blinks when engine misfiring is detected.

What to do when the indicator lamp comes on

Avoid high speeds and immediately get your vehicle inspected at a dealer.

What to do when the indicator lamp blinks

Park the vehicle in a safe place with no flammable items and wait at least 10 minutes with the engine stopped until it cools.

NOTICE

If you drive with the malfunction indicator lamp on, the emissions control system and the engine could be damaged.

NOTICE

If the malfunction indicator lamp blinks again when restarting the engine, drive to the nearest dealer at 50 km/ h or less. Have your vehicle in-spected.

ABS (Anti-lock Brake System) Indicator

If the indicator operates in one of the following ways, you may have a serious problem with the ABS. Reduce your speed and have your vehicle inspected by your dealer as soon as possible.

- Indicator comes on or starts flashing while riding.
- Indicator does not come on when the ignition switch is in the (On) position.
- Indicator does not go off at speeds above 10 km/h.

If the ABS indicator stays on, your brakes will continue to work as a conventional system, but without the anti-locking function.

The ABS indicator may flash if you turn the rear wheel while the rear wheel is lifted off the ground. In this case, turn the ignition switch to the **O** (Off) position, and then to the (On) position again. The ABS indicator will go off after your speed reaches 30 km/h.

Troubleshooting

Tyre Puncture

Repairing a puncture or removing a wheel requires special tools and technical expertise. We recommend you have this type of service performed by your dealer.

After an emergency repair, always have the tyre inspected/replaced by your dealer.

Emergency Repair Using a Tyre Repair Kit

If your tyre has a minor puncture, you can make an emergency repair using a tubeless tyre repair kit.

Follow the instructions provided with the emergency tyre repair kit.

Riding your vehicle with a temporary tyre repair is very risky. Do not exceed 50 km/h. Have the tyre replaced by your dealer as soon as possible.

3WARNING

Riding your vehicle with a temporary tyre repair can be risky. If the temporary repair fails, you can crash and be seriously injured or killed.

If you must ride with a temporary tyre repair, ride slowly and carefully and do not exceed 50 km/h until the tyre is replaced.

Electrical Trouble

Battery Goes Dead

Charge the battery using a motorcycle battery charger.

Remove the battery from the vehicle before charging.

Do not use an automobile-type battery charger, as these can overheat a motorcycle battery and cause permanent damage. If the battery does not recover after recharging, contact your dealer.

NOTICE

Jump starting using an automobile battery can damage your vehicle's electrical system and is not recommended.

Burned-out Light Bulb

All light bulbs on the vehicle are LEDs. If there is an LED which is not turned on, see your dealer for servicing.

Troubleshooting

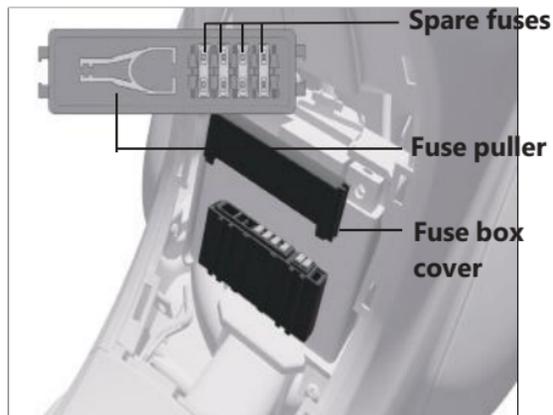
Electrical Trouble u Blown Fuse

Before handling fuses, see "Inspecting and Replacing Fuses."

I Fuse Box Fuses

- 1.Remove the centre cover.
- 2.Remove the battery cover.
- 3.Remove the fuse box cover.
- 4.Pull the fuses out one by one with the fuse puller located back side of the fuse box cover and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
 - u Spare fuses are provided on back side of the fuse box cover.
- 5.Reinstall the fuse box cover.
- 6.Reinstall the battery cover.

- 7.Reinstall the centre cover.



NOTICE

If a fuse fails repeatedly, you likely have an electrical problem. Have your vehicle inspected by your dealer.

Unstable Engine Operation Occurs Intermittently

If the fuel pump filter is clogged, unstable engine operation will occur intermittently while riding.

Even if this symptom occurs, you can continue to ride your vehicle.

If unstable engine operation occurs even if sufficient fuel is available, have your vehicle inspected by your dealer as soon as possible.

Service Diagnostic Recorders	P.51
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Instruments, Controls, & Other Features	P.53
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Storing Your Vehicle	P.57
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Service Diagnostic Recorders

Your vehicle is equipped with service-related devices that record information about power-train performance and riding conditions. The data can be used to help technicians diagnose, repair and maintain the vehicle. This data may not be accessed by anyone else except as legally required or with the permission of the vehicle owner.

However this data may be accessed by Kamax, its authorised dealers and authorised repairers, employees, representatives and contractors only for the purpose of the technical diagnosis, research and development of the vehicle.

Keys

Keys

EU Directive

This Kamax SMART Key system complies with the RE (Radio Equipment) Directive (2014/53/EU).



The declaration of conformity to RE Directive is provided to the owner at the time of purchase. The declaration of conformity should be kept at a safe place. When the declaration of conformity is lost or is not provided, contact your dealer.

Manufacturer

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MOBIL: +49 - 172 - 5 99 66 33

Instruments, Controls, & Other Features

Ignition Switch

Leaving the ignition switch in the (On) position with the engine stopped will drain the battery. Do not turn the ignition switch while riding.

Odometer

The display locks at 999,999 when the read-out exceeds 999,999.

Tripmeter

The tripmeters return to 0.0 when each read-out exceeds 9,999.9.

Document Bag

The owner's manual, registration, and insurance information can be stored in the plastic document bag behind the right side cover.

High Beam Indicator

The high beam indicator will come on briefly due to the capacitor being discharged when the ignition switch is turned to the (On) position immediately after the engine is stopped with the high beam.

Headlight

The headlight will come on briefly due to the capacitor being discharged when the headlight dimmer switch is operated immediately after the engine is stopped with the high beam.

Caring for Your Vehicle

Frequent cleaning and polishing is important to ensure the life of your Kamax. A clean vehicle makes it easier to spot potential problems.

In particular, seawater and salts used to prevent ice on roads promote the formation of corrosion. Always wash your vehicle thoroughly after riding on coastal or treated roads.

Washing

Allow the engine, muffler, brakes, and other high-temperature parts to cool before washing.

1. Rinse your vehicle thoroughly using a low pressure garden hose to remove loose dirt.
2. If necessary, use a sponge or a soft towel with mild cleaner to remove road grime.
 - u Clean the headlight lens, panels, and other plastic components with extra care to avoid scratching them. Avoid directing water into the air cleaner, muffler, and electrical parts.
3. Thoroughly rinse your vehicle with plenty of

clean water and dry with a soft, clean cloth.

4. After the vehicle dries, lubricate any moving parts.
 - u Make sure that no lubricant spills onto the brakes or tyres. Brake discs, pads, drum or shoes contaminated with oil will suffer greatly reduced braking effectiveness and can lead to a crash.
 5. Lubricate the drive chain immediately after washing and drying the vehicle.
 6. Apply a coat of wax to prevent corrosion.
 - u Avoid products that contain harsh detergents or chemical solvents. These can damage the metal, paint, and plastic on your vehicle.
- Keep the wax clear of the tyres and brakes.
- u If your vehicle has any mat painted parts, do not apply a coat of wax to the mat painted surface.

I Washing Precautions

Follow these guidelines when washing:

- Do not use high-pressure washers:
 - u High-pressure water cleaners can damage moving parts and electrical parts, rendering them inoperable.
 - u Water in the air intake can be drawn into the throttle body and/or enter the air cleaner.
- Do not direct water at the muffler:
 - u Water in the muffler can prevent starting and causes rust in the muffler.
- Dry the brakes:
 - u Water adversely affects braking effectiveness. After washing, apply the brakes intermittently at low speed to help dry them.
- Do not direct water in the right side cover:
 - u Water in the right side cover can damage your documents and other belongings.

- Do not direct water at the air cleaner:
 - u Water in the air cleaner can prevent the engine from starting.
- Do not direct water near the headlight:
 - u The headlight's inside lens may fog temporarily after washing or while riding in the rain. This does not impact the headlight function.

However, if you see a large amount of water or ice accumulated inside the lens(es), have your vehicle inspected by your dealer.

- Do not use wax or polishing compounds on mat painted surfaces:
 - u Use a soft cloth or sponge, plenty of water, and a mild detergent to clean mat painted surfaces. Dry with a soft clean cloth.

Caring for Your Vehicle

Aluminium Components

Aluminium will corrode from contact with dirt, mud, or road salt. Clean aluminium parts regularly and follow these guidelines to avoid scratches:

- Do not use stiff brushes, steel wool, or cleaners containing abrasives.
- Avoid riding over or scraping against curbs.

Panels

Follow these guidelines to prevent scratches and blemishes:

- Wash gently using a soft sponge and plenty of water.
- To remove stubborn stains, use diluted detergent and rinse thoroughly with plenty of water.
- Avoid getting petrol, brake fluid, or detergents on the instruments, panels, or headlight.

Exhaust Pipe and Muffler

The exhaust pipe and muffler are stainless steel but may become stained by mud or dust.

To remove mud or dust, use a wet sponge and a liquid kitchen abrasive, then rinse well with clean water. Dry with chamois or a soft towel.

If necessary, remove heat stains by using a commercially available fine texture compound. Then rinse by the same manner as removing mud or dust.

NOTICE

Even though the exhaust is made of stainless steel, it can become stained. Remove all marks and blemishes as soon as they are noticed.

Storing Your Vehicle

If you store your vehicle outdoors, you should consider using a full-body cover.

If you won't be riding for an extended period, follow these guidelines:

- Wash your vehicle and wax all painted surfaces (except mat painted surfaces). Coat chrome pieces with rust-inhibiting oil.
- Lubricate the drive chain.
- Place your vehicle on its centre stand and position a block so that both tyres are off the ground.
- After rain, remove the body cover and allow the vehicle to dry.
- Remove the battery to prevent discharge. Fully charge the battery and then place it in

a shaded, well-ventilated area.

- u If you leave the battery in place, disconnect the negative – terminal to prevent discharge.

After removing your vehicle from storage, inspect all maintenance items required by the Maintenance Schedule.

Transporting Your Vehicle

Transporting Your Vehicle

If your vehicle needs to be transported, it should be carried on a motorcycle trailer or a flatbed truck or trailer that has a loading ramp or lifting platform, and motorcycle tie-down straps. Never try to tow your vehicle with a wheel or wheels on the ground.

NOTICE

Towing your vehicle with a wheel or wheels on the ground can cause serious damage to the transmission.

You & the Environment

Owning and riding a vehicle can be enjoyable, but you must do your part to protect the environment.

Choose Sensible Cleaners

Use a biodegradable detergent when you wash your vehicle. Avoid aerosol spray cleaners that contain chlorofluorocarbons (CFCs) which damage the atmosphere's protective ozone layer.

Recycle Wastes

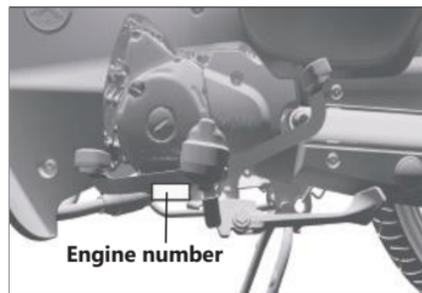
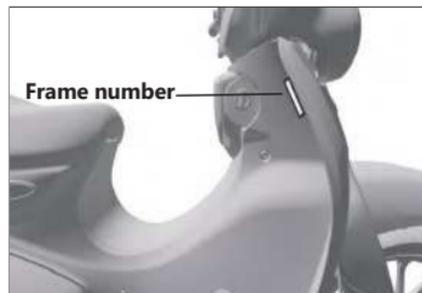
Put oil and other toxic wastes in approved containers and take them to a recycling centre. Call your local or state office of public works or environmental services to find a recycling centre in your area and to get instructions on how to dispose of non-recyclable wastes. Do not place used engine oil in the trash or pour it down a drain or on the ground. Used oil, petrol, and cleaning solvents contain poisons that can hurt refuse workers and contaminate drinking water, lakes, rivers, and oceans.

Serial Numbers

Serial Numbers

The frame and engine serial numbers uniquely identify your vehicle and are required in order to register your vehicle. They may also be required when ordering replacement parts.

You should record these numbers and keep them in a safe place.



Fuels Containing Alcohol

Some conventional fuels blended with alcohol are available in some locales to help reduce emissions to meet clean air standards. If you plan to use blended fuel, check that it is unleaded and meets the minimum octane rating requirement.

The following fuel blends can be used in your vehicle:

- Ethanol (ethyl alcohol) up to 10% by volume.
 - u Petrol containing ethanol may be marketed under the name Gasohol.

The use of petrol containing more than 10% ethanol may:

- Damage the painting of the fuel tank.
- Damage the rubber tubes of the fuel line.
- Cause corrosion of the fuel tank.
- Cause poor drivability.

NOTICE

Use of blended fuels containing higher than approved percentages can damage metal, rubber, plastic parts of your fuel system.

If you notice any undesirable operating symptoms or performance problems, try a different brand of petrol.

Catalytic Converter

Catalytic Converter

This vehicle is equipped with a three-way catalytic converter. The catalytic converter contains precious metals that serve as catalysts in high temperature chemical reactions that convert hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) in the exhaust gasses into safe compounds.

A defective catalytic converter contributes to air pollution and can impair your engine's performance. A replacement unit must be an original Kamax part or equivalent.

Follow these guidelines to protect your vehicle's catalytic converter.

- Always use unleaded petrol. Leaded petrol will damage the catalytic converter.
- Keep the engine in good running condition.
- Have your vehicle serviced if your engine is misfiring, backfiring, stalling, or otherwise not running properly, stop riding and turn off the engine.

Specifications

■ Main Components

Overall length	1,915 mm
Overall width	720 mm
Overall height	1,000 mm
Wheelbase	1,245 mm
Caster angle	26° 30'
Trail	71 mm
Curb weight	110 kg
Maximum weight capacity ^{*1}	150 kg (331 lb)
Maximum luggage weigh	5 kg (11 lb)
Passenger capacity	Rider and 1 passenger
Minimum turning radius	2.00 m (6.6 ft)

*1 Including rider, passenger, all luggage, and accessories

Displacement	124.6 cm ³	
Bore x stroke	52.4mm x 57.8mm	
Compression ratio	9.2:1	
Fuel	Unleaded petrol Recommended: 92 RON or higher	
Fuel containing alcohol ETHANOL	up to 10 % by volume	
Gear ratio	1st	2.500
	2nd	1.550
	3rd	1.150
	4th	0.923
Battery YB4L-BS	12V-4Ah	

Specifications

■ Service Data

	Front	80/90-17M/C 44P
	Rear	90/90-17M/C 49P
Tyre type		Bias-ply, tubeless
Recommended Tyre	Front	C-918X
	Rear	C-918X
		Normal Permitted
Tyre category of use	Special	Not Permitted
	Snow	Not Permitted
	Moped	Not Permitted
Tyre air pressure (Rider only)	Front	225 kPa (2.25 kgf/cm ² , 44 psi)
	Rear	225 kPa (2.25 kgf/cm ² , 49 psi)
Tyre air pressure (Rider and 1passenger)	Front	225 kPa (2.25 kgf/cm ² , 29 psi)
	Rear	225 kPa (2.25 kgf/cm ² , 49 psi)
Spark plug	(standard)	CPR7EA-9S (NGK)
Spark plug gap		0.8 - 0.9 mm (0.03 - 0.04 in)
Idle speed		1600 ± 100 rpm
Recommended engine oil		Kamax 4-stroke motorcycle oil API Service Classification SG or higher, excluding oils marked as "Energy Conserving" or "Resource Conserving," SAE 10W-30, JASO T 903 standard MA

	After draining	0.8 L (0.8 US qt, 0.7 Imp qt)
Engine oil capacity	After draining & engine oil filter change	0.85 L (0.90 US qt, 0.75 Imp qt)
	After disassembly	1.0 L (1.1 US qt, 0.9 Imp qt)
Recommended brake fluid		Kamax DOT 3 or DOT 4 Brake Fluid
Recommended drive chain lubricant		Drive chain lubricant If not available, use SAE 80 or 90 gear oil.
Drive chain slack		25 - 35 mm (1.0 - 1.4 in) RK420EL1
Standard drive chain		2H420NSD No. of links 108
	Drive sprocket	14T
Standard sprocket size	Driven sprocket	35T

Specifications

■ Bulbs

Headlight	LED
Brakelight/Taillight	LED
Front turn signal	LED
Rear turn signal	LED
Position light	LED
License plate light	LED

■ Fuses

Main fuse	10A
Other fuse	10 A, 10 A

■ Torque Specifications

Chain cover bolt	7 N·m (0.7 kgf·m, 5.2 lbf·ft)
------------------	-------------------------------

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Maintenance Schedule	P. 68	Brakes	P. 86
Maintenance Fundamentals	P. 71	Drive Chain.....	P. 92
Tool.....	P. 80	Throttle	P. 94
Removing & Installing Body Components		Other Replacement	P. 95
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Battery	P. 81	P. 95
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Importance of Maintenance

Importance of Maintenance

Keeping your vehicle well-maintained is absolutely essential to your safety and to protect your investment, obtain maximum performance, avoid breakdowns, and reduce air pollution.

Maintenance is the owner's responsibility. Be sure to inspect your vehicle before each ride and perform the periodic checks specified in the Maintenance Schedule.

Maintenance Safety

Always read the maintenance instructions before you begin each task and make sure that you have the tools, parts, and skills required.

We cannot warn you of every conceivable hazard that can arise in performing maintenance.

Only you can decide whether or not you should perform a given task.

Follow these guidelines when performing maintenance.

- Stop the engine and turn the ignition switch to the **O** (Off) position.
- Place your vehicle on a firm, level surface using the centre stand or a maintenance stand to provide support.
- Allow the engine, muffler, brakes, and other high-temperature parts to cool before servicing as you can get burned.
- Run the engine only when instructed, and do so in a well-ventilated area.

Maintenance Schedule

Maintenance Schedule

The maintenance schedule specifies the maintenance requirements necessary to ensure safe, dependable performance, and proper emission control.

Maintenance work should be performed in accordance with Kamax's standards and specifications by properly trained and equipped technicians. Your dealer meets all of these requirements. Keep an accurate record of maintenance to help ensure that your vehicle is properly maintained.

Make sure that whomever performs the maintenance completes this record.

All scheduled maintenance is considered a normal owner operating cost and will be charged to you by your dealer. Retain all receipts. If you sell the vehicle, these receipts should be transferred with the vehicle to the new owner.

Kamax recommends that your dealer should road test your vehicle after each periodic maintenance is carried out.

Maintenance Schedule

Items	Pre-ride Check 2 P. 71	Frequency *1								Annual Check	Regular Replace	Refer to page
		×1,000 km	1	6	12	18	24	30	36			
		×1,000 mi	0.6	4	8	12	16	20	24			
Fuel Line				I	I	I	I	I	I	I		-
Fuel Level		I										38
Throttle Operation		I		I	I	I	I	I	I	I		94
Air Cleaner *2						R				R		-
Crankcase Breather *3				C	C	C	C	C	C			-
Spark Plug				I	R	I	R	I	R			-
Valve Clearance		I		I	I	I	I	I	I			-
Engine Oil			R	R	R	R	R	R	R	R		84
Engine Oil Strainer Screen					C			C		C		-
Engine Oil Centrifugal Filter					C			C		C		-
Engine Oil Filter					R			R		R		-
Engine Idle Speed				I	I	I	I	I	I	I		-
EvaporativeEmissionControlSystem						I				I		-

Maintenance Level

: Intermediate. We recommend service by your dealer, unless you have the necessary tools and are mechanically skilled. Procedures are provided in an official Kamax Shop Manual.

: Technical. In the interest of safety, have your vehicle serviced by your dealer.

Maintenance Legend

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

R: Replace

C: Clean

L: Lubricate

Maintenance Schedule

Items	Pre-ride Check 2 P. 71	Frequency *1										Annual Check	Regular Replace	Refer to page
		×1,000 km	1	6	12	18	24	30	36					
		×1,000 mi	0.6	4	8	12	16	20	24					
Drive Chain		Every 500 km (300 mi):												92
Brake Fluid *4													2 Years	75
Brake Shoes/Pads Wear														90
Brake System														86-91
Brakelight Switch														91
Headlight Aim														-
Lights/Horn														-
Clutch System														-
Suspension														-
Nuts, Bolts, Fasteners														-
Wheels/Tyres														77
Steering Head Bearings														-

Notes:

- *1 : At higher odometer reading, repeat at the frequency interval established here.
- *2 : Service more frequently when riding in unusually wet or dusty areas.
- *3 : Service more frequently when riding in rain or at full throttle.
- *4 : Replacement requires mechanical skill.

Maintenance Fundamentals

Pre-ride Inspection

To ensure safety, it is your responsibility to perform a pre-ride inspection and make sure that any problem you find is corrected. A pre-ride inspection is a must, not only for safety, but because having a breakdown, or even a flat tyre, can be a major inconvenience.

Check the following items before you get on your vehicle:

- Fuel level - Fill fuel tank when necessary.
- Throttle - Check for smooth opening and full closing in all steering positions.
- Engine oil level - Add engine oil if necessary. Check for leaks.
- Drive chain - Check condition and slack, adjust and lubricate if necessary.
- Brakes - Check operation;
 - Front: check brake fluid level and pads wear.
 - Rear: check shoes wear and freeplay, adjust if necessary.
- Lights and horn - Check that lights, indicators and horn function properly.
- Wheels and tyres - Check condition, air pressure and adjust if necessary.

Maintenance Fundamentals

Battery

Your vehicle has a maintenance-free type battery. You do not have to check the battery electrolyte level or add distilled water. Clean the battery terminals if they become dirty or corroded.

Do not remove the battery cap seals. There is no need to remove the cap when charging.

Maintenance Fundamentals

NOTICE

Your battery is a maintenance-free type and can be permanently damaged if the cap strip is removed.



This symbol on the battery means that this product must not be treated as household waste.

NOTICE

An improperly disposed of battery can be harmful to the environment and human health. Always confirm local regulations for proper battery disposal instruction.

I What to do in an emergency

If any of the following occur, immediately see your doctor.

- Electrolyte splashes into your eyes:
 - u Wash your eyes repeatedly with cool water for at least 15 minutes. Using water under pressure can damage your eyes.
- Electrolyte splashes onto your skin:
 - u Remove affected clothing and wash your skin thoroughly using water.
- Electrolyte splashes into your mouth:
 - u Rinse mouth thoroughly with water, and do not swallow.

3WARNING

The battery gives off explosive hydrogen gas during normal operation.

A spark or flame can cause the battery to explode with enough force to kill or seriously hurt you.

Wear protective clothing and a face shield, or have a skilled mechanic do the battery servicing.

I Cleaning the Battery Terminals

- 1.Remove the battery.
- 2.If the terminals are starting to corrode and are coated with a white substance, wash with warm water and wipe clean.

Maintenance Fundamentals

Fuses

Fuses protect the electrical circuits on your vehicle. If something electrical on your vehicle stops working, check for and replace any blown fuses.

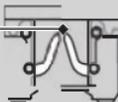
Inspecting and Replacing Fuses

Turn the ignition switch to the **O** (Off) position to remove and inspect fuses. If a fuse is blown, replace with a fuse of the same rating. For fuse ratings, see “Specifications.”

NOTICE

Replacing a fuse with one that has a higher rating greatly increases the chance of damage to the electrical system.

Blown fuse



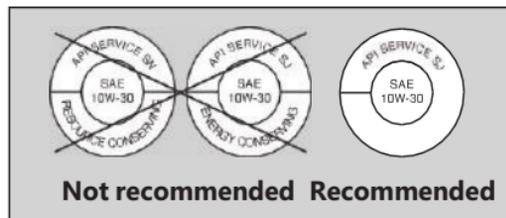
If a fuse fails repeatedly, you likely have an electrical fault. Have your vehicle inspected by your dealer.

Engine Oil

Engine oil consumption varies and oil quality deteriorates according to riding conditions and time elapsed.

Check the engine oil level regularly, and add the recommended engine oil if necessary. Dirty oil or old oil should be changed as soon as possible.

Use not less than SJ grade Engine Oil.



Maintenance Fundamentals

Brake Fluid

Do not add or replace brake fluid, except in an emergency. Use only fresh brake fluid from a sealed container. If you do add fluid, have the brake system serviced by your dealer as soon as possible.

NOTICE

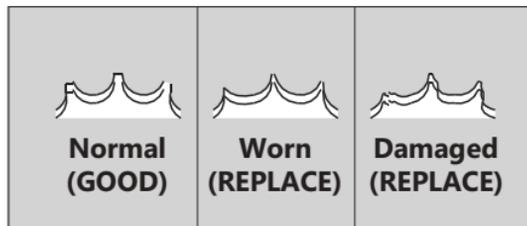
Brake fluid can damage plastic and painted surfaces. Wipe up spills immediately and wash thoroughly.

Drive Chain

The drive chain must be inspected and lubricated regularly. Inspect the chain more frequently if you often ride on bad roads, ride at high speed, or ride with repeated fast acceleration.

If the chain does not move smoothly, makes strange noises, has damaged rollers, has loose pins, or kinks, have the chain inspected by your dealer.

Also inspect the drive sprocket and driven sprocket. If either has worn or damaged teeth, have the sprocket replaced by your dealer.



NOTICE

Use of a new chain with worn sprockets will cause rapid chain wear.

Maintenance Fundamentals

I Cleaning and Lubricating

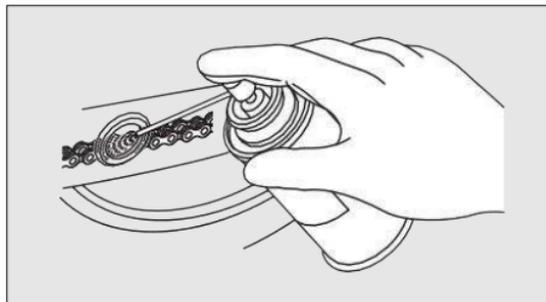
After inspecting the slack, clean the chain and sprockets while rotating the rear wheel. Use a dry cloth with high flash-point solvent. Use a soft brush if the chain is dirty.

After cleaning, wipe dry and lubricate with the recommended lubricant.

Recommended lubricant:

Drive chain lubricant

If not available, use SAE 80 or 90 gear oil.



Never use petrol or low flash point solvents for cleaning the drive chain.

A fire or explosion could result.

Avoid getting lubricant on the brakes or tyres.

Avoid applying excess chain lubricant to prevent spray onto your clothes and the vehicle.

Crankcase Breather

Service more frequently when riding in rain, at full throttle, or after the vehicle is washed or overturned. Service if the deposit level can be seen in the transparent section of the drain tube.

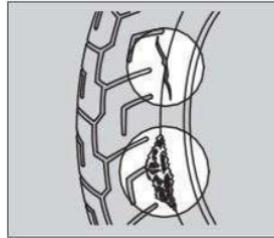
If the drain tube overflows, the air filter may become contaminated with engine oil causing poor engine performance.

Tyres (Inspecting/Replacing)

I Checking the Air Pressure

Visually inspect your tyres and use an air pressure gauge to measure the air pressure at least once a month or any time you think the tyres look low. Always check air pressure when your tyres are cold.

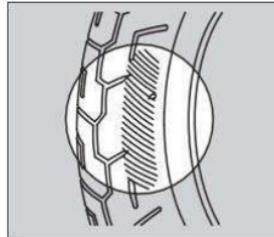
I Inspecting for Damage



Inspect the tyres for cuts, slits, or cracks that exposes fabric or cords, or nails or other foreign objects embedded in the side of the tyre or the tread.

Also inspect for any unusual bumps or bulges in the side walls of the tyres.

I Inspecting for Abnormal Wear

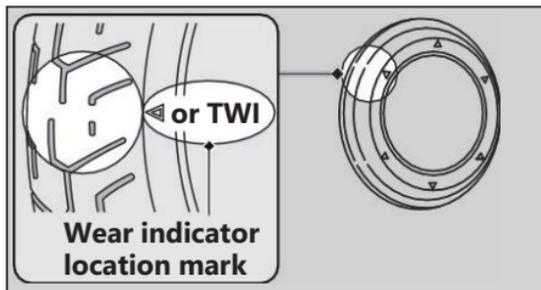


Inspect the tyres for signs of abnormal wear on the contact surface.

Maintenance Fundamentals

I Inspecting Tread Depth

Inspect the tread wear indicators. If they become visible, replace the tyres immediately.



3WARNING

Riding on tyres that are excessively worn or improperly inflated can cause a crash in which you can be seriously hurt or killed.

Follow all instructions in this owner's manual regarding tyre inflation and maintenance.

Have your tyres replaced by your dealer.

For recommended tyres and air pressure, see “Specifications.”

Follow these guidelines whenever you replace tyres.

- Use the recommended tyres or equivalents of the same size, construction, speed rating, and load range.
- Do not install a tube inside a tubeless tyre on this vehicle. Excessive heat build-up can cause the tube to burst.
- Use only tubeless tyres on this vehicle.

The rims are designed for tubeless tyres, and during hard acceleration or braking, a tube-type tyre could slip on the rim and cause the tyre to rapidly deflate.

3WARNING

Installing improper tyres on your vehicle can adversely affect handling and stability, and can cause a crash in which you can be seriously hurt or killed.

Always use the size and type of tyres recommended in this owner's manual.

Tool

Tool

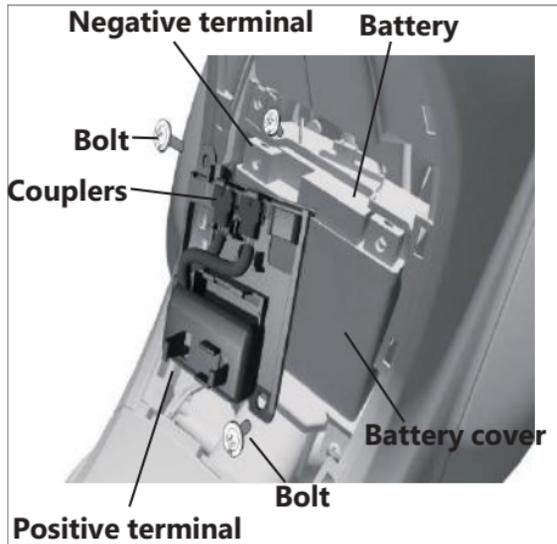
The tool kit is located behind the right side cover.

You can perform some roadside repairs, minor adjustments and parts replacement with the provided tools.

- Spark plug socket
- double-ended screwdriver
- M5 hex

Removing & Installing Body Components

Battery



I Removal

Make sure the ignition switch is in the **O** (Off) position.

- 1.Remove the centre cover.
2. Remove the couplers from the battery cover.
- 3.Move the battery cover upward by removing the bolts.
4. Disconnect the negative - terminal from the battery.
- 5.Disconnect the positive + terminal from the battery.
- 6.Remove the battery cover.
7. Remove the battery, taking care not to drop the terminal nuts.

Removing & Installing Body Components u Battery

I Installation

Install the parts in the reverse order of removal. Always connect the positive + terminal first. Make sure that bolts and nuts are tight.

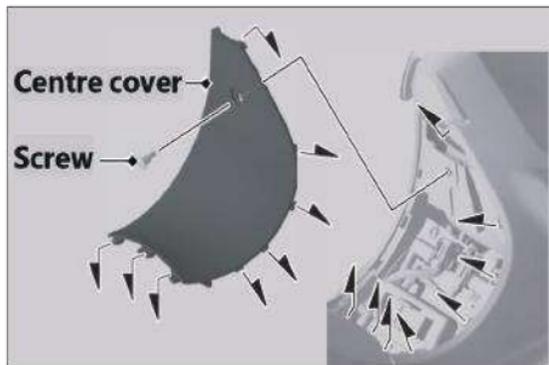
Make sure the clock information is correct after the battery is reconnected.

The anti-theft alarm system will be deactivated if the battery is disconnected. The system will remain off when the battery is reconnected. To activate the system, see “Setting the Anti-theft Alarm System.”

For proper handling of the battery, see “Maintenance Fundamentals.”
“Battery Goes Dead.”

Removing & Installing Body Components u Centre Cover

Centre Cover



I Removal

Remove the centre cover by removing the screw.

I Installation

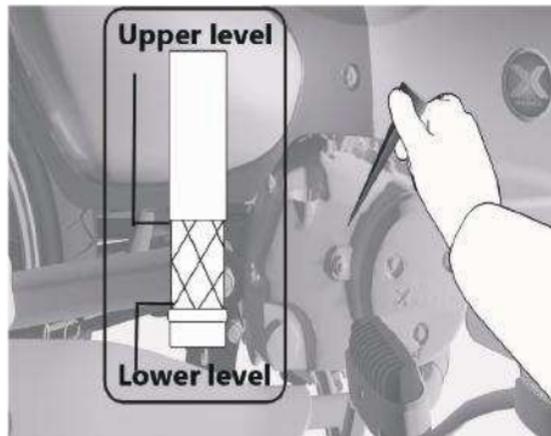
1. Open the left and right body covers slightly, then install the centre cover while aligning each tab and slit.
2. Install and tighten the screw.

Engine Oil

Engine Oil

Checking the Engine Oil

- 1.If the engine is cold, idle the engine for 3 to 5 minutes.
- 2.Turn the ignition switch to the **O** (Off) position and wait for 2 to 3 minutes.
- 3.Place your vehicle on its centre stand on a firm, level surface.
- 4.Remove the oil fill cap/dipstick and wipe it clean.
- 5.Insert the oil fill cap/dipstick until it seats, but don't screw it in.
- 6.Check that the oil level is between the upper level and lower level marks on the oil fill cap/dipstick.
- 7.Securely install the oil fill cap/dipstick.



Adding Engine Oil

If the engine oil is below or near the lower level mark, add the recommended engine oil.

1. Remove the oil fill cap/dipstick. Add the recommended oil until it reaches the upper level mark.
 - u Place your vehicle on its centre stand on a firm, level surface when checking the oil level.
 - u Do not overfill above the upper level mark.
 - u Make sure no foreign objects enter the oil filler opening.
 - u Wipe up any spills immediately.

2. Securely reinstall the oil fill cap/dipstick.

NOTICE

Overfilling with oil or operating with insufficient oil can cause damage to your engine. Do not mix different brands and grades of oil. They may affect lubrication and clutch operation.

For the recommended oil and oil selection guidelines, see “Maintenance Fundamentals.”

Brakes

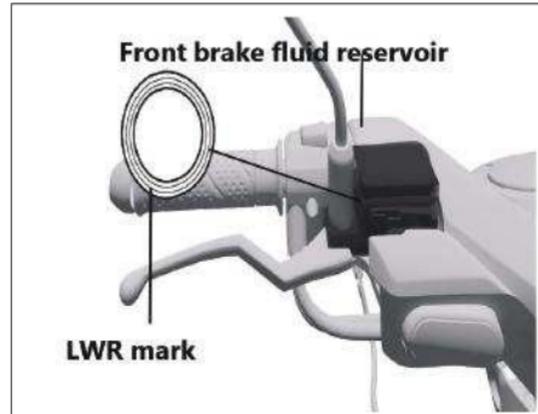
Brakes

Checking the Front Brake Fluid

1. Place your vehicle in an upright position on a firm, level surface.
2. Check that the brake fluid reservoir is horizontal and that the fluid level is above the LWR mark.

If the brake fluid level in the reservoir is below the LWR mark or the brake lever freeplay becomes excessive, inspect the brake pads for wear.

If the brake pads are not worn, you most likely have a leak. Have your vehicle inspected by your dealer.



Brakes u Inspecting the Front Brake Pads

Inspecting the Front Brake Pads

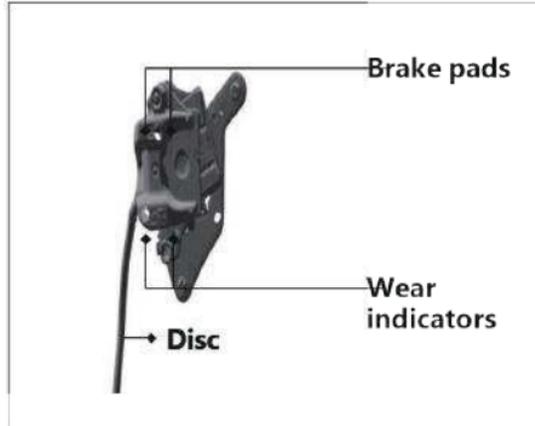
Check the condition of the brake pad wear indicators.

The pads need to be replaced if a brake pad is worn to the indicator.

Inspect the brake pads from below the brake caliper.

If necessary have the pads replaced by your dealer.

Always replace both left and right brake pads at the same time.

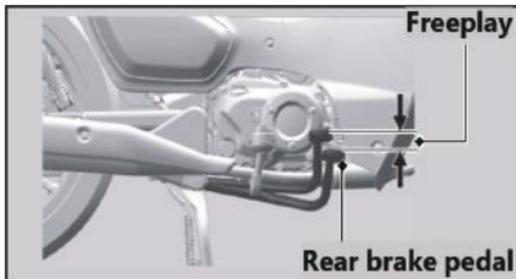


Brakes u Inspecting the Rear Brake Pedal Freeplay

Inspecting the Rear Brake Pedal Freeplay

1. Place your vehicle on its centre stand on a firm, level surface.
2. Measure the distance the rear brake pedal moves before the brake takes hold.

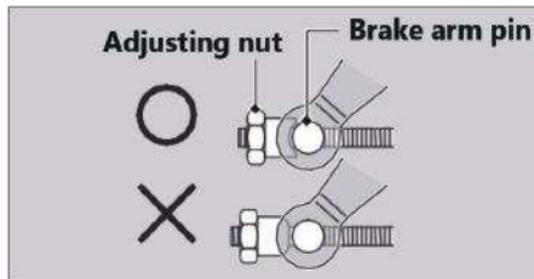
Freeplay at the tip of the brake pedal:
20 - 30 mm



Make sure the brake rod, brake arm, spring and fastener are in good condition.

Adjusting the Rear Brake Pedal Freeplay

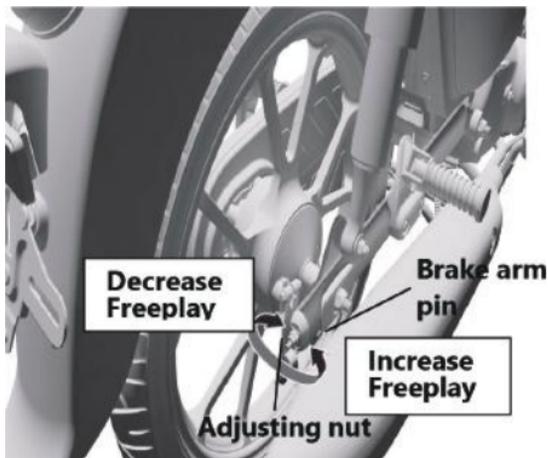
Make sure the cut-out on the adjusting nut is seated on the brake arm pin when adjusting the freeplay.



If proper adjustment cannot be obtained by this method, see your dealer.

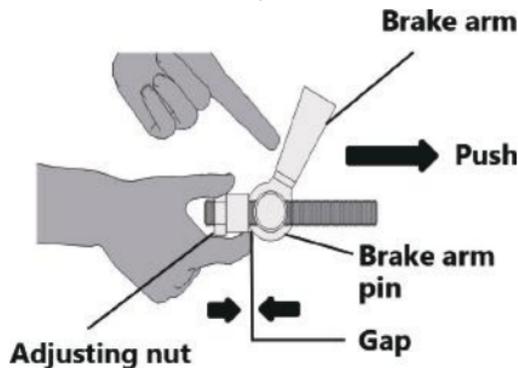
Brakes u Inspecting the Rear Brake Pedal Freeplay

1. Adjust by turning the rear brake adjusting nut a half-turn at a time.



2. Apply the brake several times and check for free wheel rotation after the brake pedal is released.

3. Push the brake arm to confirm that there is a gap between the rear brake adjusting nut and brake arm pin.



After adjustment, confirm the freeplay of the brake pedal.

Make sure the brake rod, brake arm, spring and fastener are in good condition.

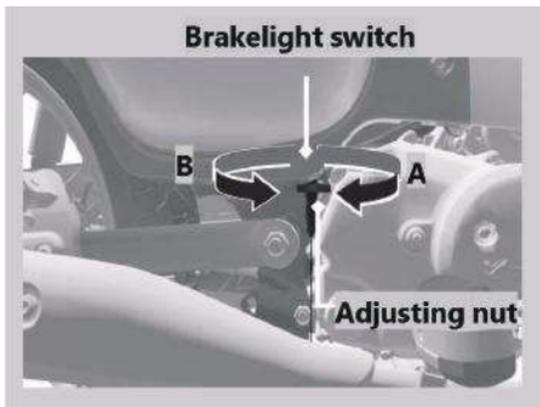
NOTICE

Do not turn the adjuster beyond its natural limits.

Brakes u Inspecting the Rear Brake Shoe Wear

Inspecting the Rear Brake Shoe Wear

The rear brake is equipped with a brake wear indicator.



When the brake is applied, an arrow attached to the brake arm moves toward a reference mark on the brake panel. If the arrow aligns with the reference mark on full application of the brake, the brake shoes must be replaced. See your dealer for this service.

When the brake service is necessary, see your dealer. Use only Kamax Genuine Parts or its equivalent.

Adjusting the Brakelight Switch

Check the operation of the brakelight switch. Hold the brakelight switch and turn the adjusting nut in the direction A if the switch operates too late, or turn the nut in the direction B if the switch operates too soon.



Inspection hole cap

Drive Chain

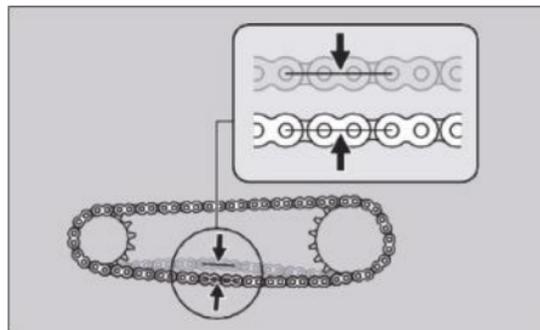
Drive Chain

Inspecting the Drive Chain Slack

Check the drive chain slack at several points along the chain. If the slack is not constant at all points, some links may be kinked and binding.

Have the chain inspected by your dealer.

1. Shift the transmission to Neutral. Stop the engine.
2. Place your vehicle on its centre stand on a firm, level surface.



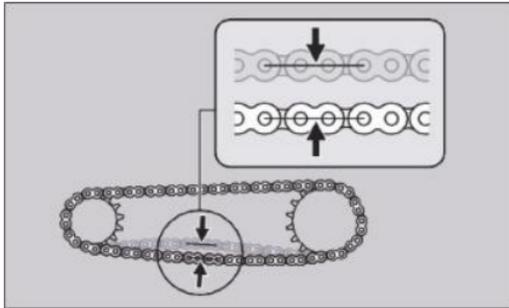
3. Remove the inspection hole cap.

4. Move the drive chain up and down with your finger.

Drive chain slack:

25 - 35 mm

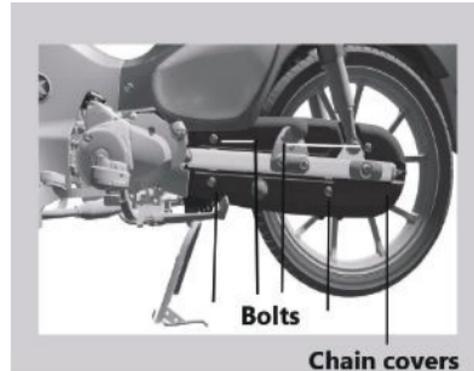
- u Do not ride your vehicle if the slack exceeds 50 mm.



5. Rotate the rear wheel and check that the chain moves smoothly.
6. Remove the chain covers by removing the

Drive Chain u Inspecting the Drive Chain Slack

bolts.



7. Inspect the sprockets.
8. Clean and lubricate the drive chain.
9. Install the parts in the reverse order of removal.
10. Tighten the bolts.

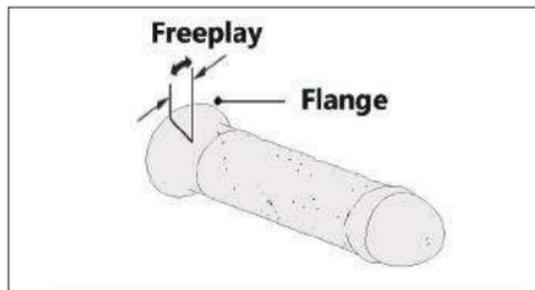
Torque: 7 N·m

Thrott

Thrott

Checking the Throttle

With the engine off, check that the throttle rotates smoothly from fully closed to fully open in all steering positions and throttle freeplay is correct. If the throttle does not move smoothly, close automatically, or if the cable is damaged, have the vehicle inspected by your dealer.

Freeplay at the throttle grip flange:**2 - 6 mm**

Other Replacement

Replacing the Kamax SMART Key Battery

If the Kamax SMART Key indicator flashes 5 times when the ignition switch is turned to the (On) position, or the operating range becomes unstable, replace the battery as soon as possible.

We recommend to see your dealer for this service.

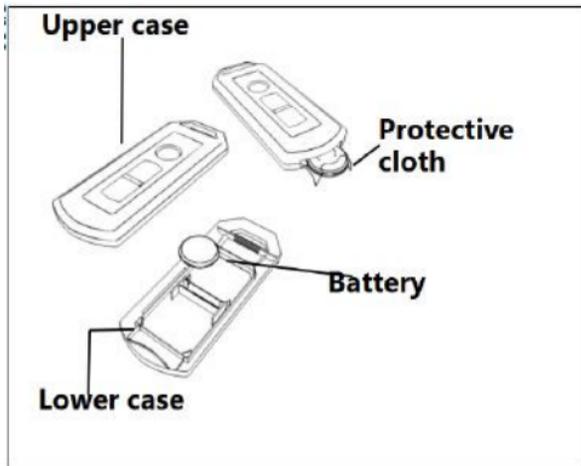
1. Remove the upper case by inserting a coin or a flat head screwdriver covered with a protective cloth into the slit.
- u Wrap a coin or a screwdriver with a pro-

protective cloth to prevent scratching the Kamax SMART Key.

- u Do not touch the circuit or terminal. This may cause problems.
- u Be careful to avoid scratching the waterproof covering or allowing dust to enter.
- u Do not forcibly dismantle the Kamax SMART Key body.

Other Replacement u Replacing the Kamax SMART Key Battery

2. Replace the old battery with a new battery with the negative – side facing up.
3. Snap the two halves of the Kamax SMART Key back together.
 - u Make sure that upper and lower cases are set in the right position.



3WARNING

Chemical Burn Hazard: do not swallow battery.

If swallowed, the battery can cause severe internal burns and even death.

- Keep battery away from children and battery compartment securely closed.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- Immediately seek medical attention if a child may have swallowed battery.

Other Replacement u Replacing the Kamax SMART Key Battery

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

CAUTION: Do not exposed to excessive heat such as sunshine, fire or the like, that can result in an explosion or the leakage of flammable liquid or gas during use, storage or transportation.

CAUTION: Do not dispose of a battery into fire or a hot oven, or give mechanically crushing or cutting of a battery, that can result in an explosion.

CAUTION: Do not subject to extremely low air pressure at high altitude that may result in an explosion or the leakage of flammable liquid or gas.



CUB PRO 125

<https://kamaxcub.com>