



AK550 Premium Owner's Manual

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THE THRILLS OF TOURING

YOU CAN PROUDLY ENJOY THE BEST
OF BOTH WORLDS

AK550 Premium is the pioneer of the new scooter segment "Super Touring," which aims to provide the comfort and convenience of a scooter with the attitude and performance of a sportbike.

THRILLS

SPORTY & CHARISMATIC

TOURING

PREMIUM & PRACTICAL



Dear Owner:

This Manual gives instructions on how to operate and maintain the **AK550 Premium**.

This model of vehicles complies with EPA and CARB regulations on emission control standards, therefore complying with environmental requirements in terms of low pollution, low noise and energy consumption. Regular maintenance is essential to keep the vehicle at optimal performance. To enjoy a safe and comfortable journey with your vehicle, please read this manual thoroughly.



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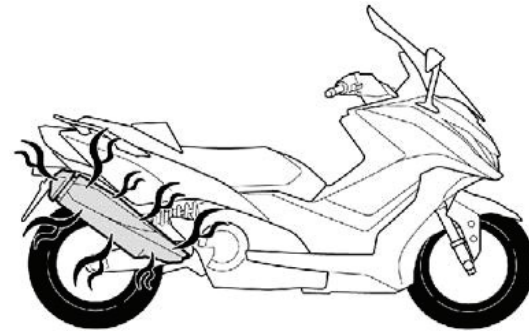
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FOR SAFETY AND SECURITY

PRECAUTIONS ON SAFE DRIVING

- User manual and precautions.
- The Driver shall wear a helmet, gloves, goggles, etc.
- Do not wear clothes that may impede safe driving.
- Excessively wide and loose sleeves may be caught by the brake lever which is extremely dangerous.
- Operation of brake lever shall in no case be obstructed.
- Daily and regular checks are necessities.
- Visually inspect the tires for any foreign objects or unusual abrasions.
- Exhaust gas from the muffler contains carbon monoxide which is harmful to the human body.
- Start the engine only in a well-ventilated location.
- Always wear an approved helmet.
- Hold the handlebar with both hands when riding. Do not ride with a single hand, this is extremely dangerous.
- Wear proper protective apparel.
- The muffler is at a very high temperature after stopping the engine, do not touch it.

- Avoid dry grasses or flammables when parking the vehicle, for the prevention of fire risks.



- The muffler is at a very high temperature after stopping the engine; park the vehicle with the muffler facing a wall or a location free of pedestrians to prevent any burn hazards.
- Metal or plastic parts of the vehicle may reach a very high temperature after exposing to sunshine; care shall be taken not to touch such surfaces or a burn may occur.
 1. Abide by all traffic rules.
 2. Smoking is prohibited when replenishing fuel.
 3. Stop the engine when filling with fuel.

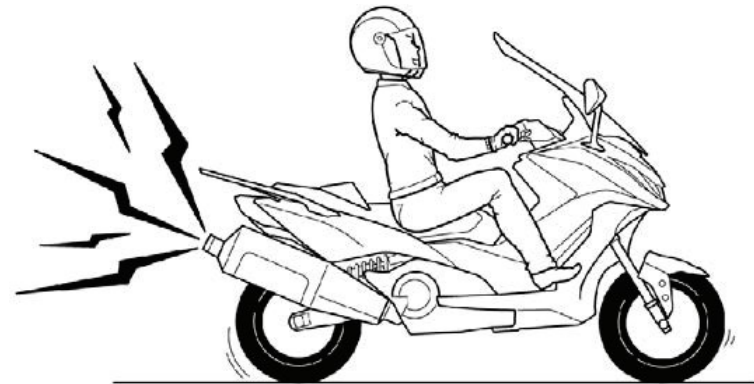
- When mounting/dismounting the vehicle, special care must be taken by the passenger (if any) to prevent being burnt by the high-temp exhaust pipe.
- Handling of the vehicle varies with different road/other conditions and different vehicle loading.
- Do not let children or persons unfamiliar with the vehicle operate it.
- Do not hand over the vehicle to persons unfamiliar with the operation of the vehicle



- When riding the vehicle, the rider must place both feet on the footrests; the passenger shall put arms around the rider's waist and both feet on the rear footrests.
- Avoid overloading when carrying objects. Make sure that objects are secured properly. Extra care must be taken for safe driving.
- Vehicle function is related to its construction; arbitrary modification may deteriorate the operability of the

vehicle, causing shortened service life and reduced driver safety.

- Arbitrary modifications of vehicles are illegal and forbidden by law. Never make any modifications to the vehicle.
- Modifications of the vehicle may result in a nullified warranty.
- Do not go near or touch the belt or front/rear wheels while they are in motion to avoid injury.



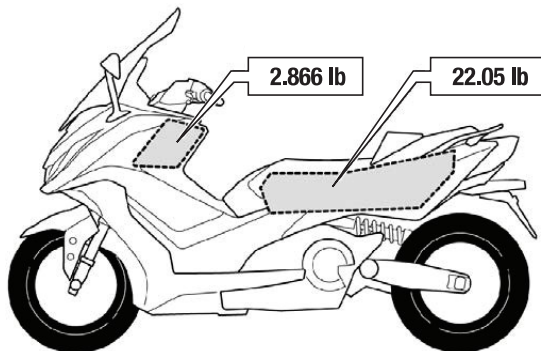
- A calm mental state and clothes suited to the environment are essential to safe riding.
- Abide by traffic rules, maintain alertness, and pay attention to the road conditions and surroundings.
- Avoid wearing clothes that may impede driving safety when riding the scooter. (E.g., long skirt, flared trousers, etc.)

- The exhaust pipe reaches an extremely high temperature when riding the vehicle and maintains this temperature after it has been shut off. Do not touch the exhaust with any part of the body for at least 30 minutes after shutting off the vehicle to avoid serious burn injuries.
- Avoid dry grasses or flammables when parking the vehicle, to prevent the risk of fire.

⚠ Warning

Do not turn on the ignition or start the engine when the vehicle's center stand is in the "Up" position. Persons unfamiliar with the operation of the vehicle should not attempt to start it. The owner of the vehicle is responsible for checking these relevant safety control measures.

- The maximum load of the storage box is limited

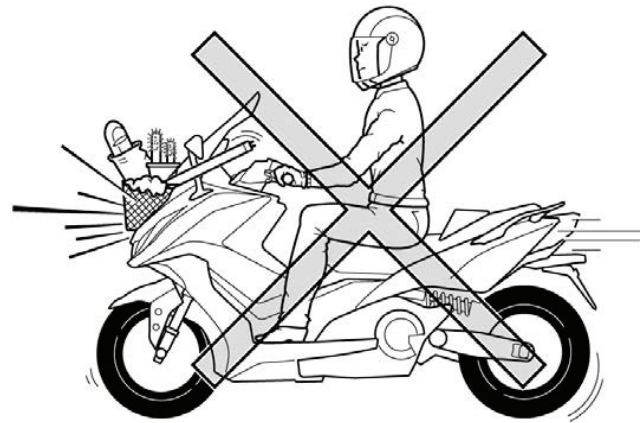


Do Not exceed the following load limits:

The maximum load of the front storage box shall be limited to 2.866 lb.

The maximum load of the storage box shall be limited to 22.05 lb.

- It is forbidden to install anything on the front headlight. Carrying anything in front of the vehicle will block the headlight and significantly affect driving safety.



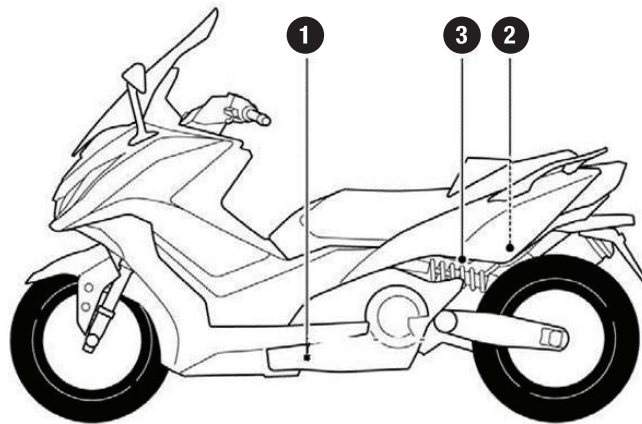
VEHICLE IDENTIFICATION AND DATA COLLECTION

OWNER INFORMATION ID NUMBER RECORD FIELD

Please note the Engine Number and Vehicle Frame Number in the relevant fields below to facilitate ordering spare parts from a KYMCO dealer, or for reference in the event of a loss of vehicle.

Engine Number: _____

Vehicle Frame Number: _____



- 1: Engine number engraving. 2: Frame number engraving.
3: VIN Aluminum nameplate.

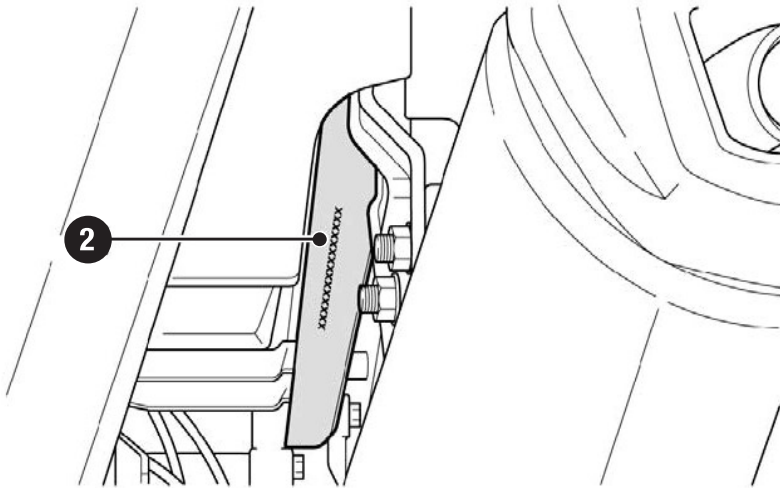
ENGINE NUMBER



Engine Number

The Engine Number is engraved on the crank box as shown in the photo.

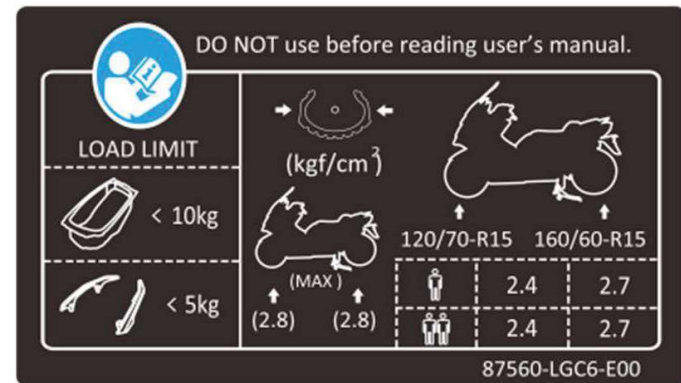
FRAME NUMBER



Frame Number Imprint

The frame number is engraved onto the frame indicated in the drawing. The Frame Number can be seen from lower- right upwards.

LOAD LIMIT AND MAXIMUM TIRE INFLATION MARK DRIVE CAUTION



The Load Limit and Maximum Tire Inflation of the vehicle is tagged on the backside of the vehicle's luggage box.

COLLECTION OF VEHICLE DATA RECORD

This Model's ECU collects and records data from the vehicle to assist in fault diagnosis and troubleshooting. To acquire the information, a KYMCO Diagnostic Tool must be connected to the diagnosis connector of the vehicle (for maintenance checks or repair) by a KYMCO dealer. Refer to the figure on the right.

The recorded information depends on the KYMCO model. However, the main information available is as follows:

1. Information on vehicle status and engine performance.
2. Information on vehicle fuel injection and emission systems.

KYMCO will not disclose this information to a third party except for the following conditions:

1. KYMCO has acquired the approval of the user and owner of the vehicle.
2. The law requires KYMCO to provide such information.
3. KYMCO must submit the information to the court for litigation.

4. KYMCO must provide such information for research purposes and this information is not related to a specific vehicle or owner.



Diagnosis Connector

OPERATION OF EACH COMPONENT

PARTS LOCATIONS: LEFT VIEW OF SCOOTER



- 1. Coolant Checking Window
- 2. Battery
- 3. Engine Oil Filter
- 4. Engine Oil Drain Bolt
- 5. Side Stand
- 6. Oil level guide
- 7. Storage Box
- 8. Left-rear Hand Rail

OPERATION OF EACH COMPONENT

PARTS LOCATIONS: RIGHT VIEW OF SCOOTER



- 1. Main Center Stand
- 2. Tool kit
- 3. Fuel Tank
- 4. Air Cleaner
- 5. Electrically Adjustable Windshield

LEFT HANDLEBAR FUNCTIONS



Front

1. Handlebar Warmer Indicator
2. Set/decelerate button (-)
3. Reset/accelerate button (+)
4. Cruise setting key
5. Blinker Switch
6. Headlight Switch
7. High/Low Beam and Passing Switch
8. Windshield Adjust button
9. Horn Switch



Rear

1. Power/Rain Mode Switch
2. Hand-Grip Warming Button

RIGHT HANDLEBAR FUNCTIONS



Front

1. Park Alert Switch
2. Dashboard Selection Button
3. Engine Ignition Button



Rear

1. Engine Stop Switch "Run" Position
2. Engine Stop Switch "Stop" Position

CENTER MULTIFUNCTION SWITCHES



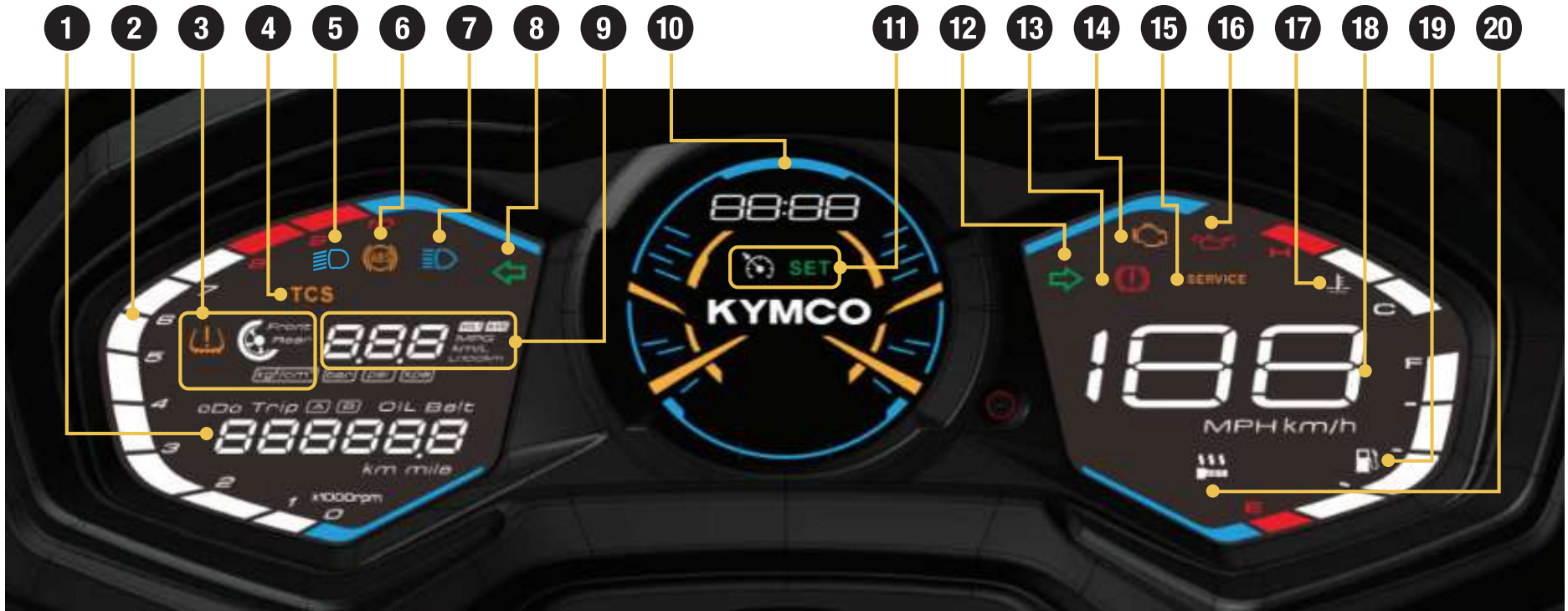
1. Fuel Tank Cap Switch
2. Storage box switch
3. Odometer Switch: Switch between TRIP A and B
4. Steering Stem Lock: Used to lock the steering stem

MAIN SWITCHES



Main Switches

CONTROL FUNCTIONS OF MECHANISM LCD DASHBOARD FUNCTION




1. ODO/TRIP A,B
2. Tachometer
3. Tire Pressure Indicator
4. TCS Indicator
5. Low Beam
6. ABS Warning Indicator
7. High Beam

8. Left Blinker
9. Instant Fuel Consumption Display
10. Power/Rain Mode
11. Cruise Control
12. Right Blinker
13. Parking Brake Indicator
14. Engine Failure Indicator


15. Engine Oil Replace Indicator
16. Engine Oil Pressure Indicator
17. Coolant Temperature Warning Indicator
18. Speedometer
19. Fuel Gauge
20. Warming the Handlebar

LCD DASHBOARD FUNCTION

1. Mileage Information:






- Km/Mile Unit Change-over: When in ODO Display Interface, Press-and-hold "O" button on Right Handlebar Switch for 2 seconds to switch over between Km and Mile display.
- Pressing DOWN () button on the Right Handlebar Switch, ODO → TRIP A → TRIP B → OIL → Belt
- ODO → Total running Mileage displayed in Km or Mile.
- TRIP A/TRIP B → Single trip mileage; Single trip mileage can be zeroed by pressing and holding "O" button for 2 seconds.

2. Tachometer: Indicates engine speed in rpm; each scale multiplied by 1000rpm.

3.  Tire Pressure Detection Indicator: After KEY ON, this indicator lights up if tire pressure is too high or too low. If tire pressure decreases rapidly, the indicator flashes quickly; if tire pressure decreases slowly, the indicator flashes slowly.



- Change unit of tire pressure: When in Tire Pressure Display Interface, click "O" button on Right Handlebar

Switch to switch-over units in the sequence of "kg/cm2 → bar → psi → kpa".

4. **TCS** indicator light will light up in an amber color when the ignition switch is turned on. Once the vehicle speed is over 6 km/h, the indicator light will go off automatically. The TCS keeps functioning at this time.
5.  Low beam: Pushing the switch to "  " for low Beam.
6.  Cruise control: This function is related to the cruise control, please refer to "Settings for Cruise Control".
SET Settings button: This is the settings indicator for cruise control.
7.  High beam: When this indicator is lit, the headlight is in the high beam position.
8.  Left blinker: When the Blinker button is pressed for left turn, the indicator light will flash; press the middle button to turn off.



9. Instant fuel consumption display: The instantaneous fuel consumption is calculated for display reference according to the throttle position. There are three fuel consumption unit selections km/L, L/100 km, and MPG. They must be set on the right handlebar switch. (When TRIP A is reset, the average fuel consumption will also reset.)

- When clicking UP () button on the Right Handlebar Switch, VOLT(Battery Voltage) → AVE (Average Fuel Consumption) → (Instant Fuel Consumption) → TPS(Tire Pressure)
- VOLT → Indicates Battery Voltage
- AVE → Average Fuel Consumption(AVE) mode, indicates Average Fuel Consumption(km/L and L/100km), (after returning TRIP to Zero, AVE will also return to Zero.)

- → Instant Fuel Consumption Mode, AVE indicator goes off, indicating Instant Fuel Consumption of vehicle (in km/ L and L/100km).
- Change unit of fuel consumption: When in AVE/Instant Fuel Consumption Mode, Click "O" button on Right Handlebar Switch to switch over between "km/L" and "L/100km".

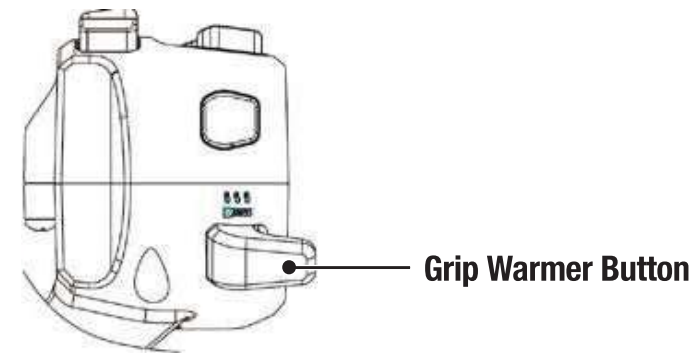
Caution


- When selecting Mile Gauge, the displayed unit is MPG, i.e. miles per gallon.
- The Average Fuel Consumption or Instant Fuel Consumption of the vehicle displayed by the meter is for reference only. The actual fuel consumption is dependent on the actual vehicle operation. For your safety, the AVE should be checked after the vehicle is stopped.
- When Battery Indication is lower than 12V, it means the battery power is low and an immediate check-up or recharge is required.


10. Power / Rain / TCS Off mode: The MODE button is located among the left handlebar switches, and can be switched between Power/Rain/TCS Off modes depending on the driver's need.



11. Warmed Hand Grip: Refer to "Warming the Grip". After turning ON the Main Switch, press and hold the Handlebar Heater Button for 3s or more to activate/deactivate the Handlebar Heating Function. Refer to "Warming the Grip".






12. (P) Parking brake indicator: When this light is lit, the parking brake is locked.
13. ➡ Right blinker: Use this position for Right Turn.
14.  Engine inspection indicator: After "KEY ON," the engine inspection indicator will illuminate and then extinguish after starting the engine. This indicates the vehicle is operating normally. If the indicator is constantly lit, it means there are problems with the vehicle. Please visit a KYMCO dealer or other qualified repair shops for inspection and maintenance.

15.  Engine Oil Replace Indicator: Oil Service Indicator: when the services symbol on the right of the dashboard lights up constantly, an oil level check or oil and filter change is required. To reset the indicator, switch to OIL mode and reset the accumulated mileage to 0. The oil change indicator (services symbol) will turn off, and the mileage will begin recounting from 0.

Belt Service Indicator: When the services symbol on the right of the dashboard lights up constantly, a CVT belt replacement is required. To reset the indicator, switch to Belt mode and reset the accumulated mileage to 0. The belt change indicator (service symbol) will turn off, and the mileage will begin recounting from 0.

Warning

Dashboard indicators are for reference only. Please refer to "Maintenance Schedule" for details.

16.  Oil Pressure Warning Indicator: The Oil Pressure Warning Indicator lights up when the KEYLESS Main Switch is activated. The Oil Pressure Warning Indicator will go off when the engine is started. The Oil Pressure Warning Indicator will light up if the oil pressure is lower than normal when the engine rotates. This denotes a system anomaly; please go to a KYMCO dealer for a check-up
17.  ABS warning indicator: The light should be off during travel, indicating the ABS braking system is in operation. If the light stays lit during travel, and cannot be resolved, please visit a KYMCO dealer for repairs.
18.  Coolant temperature warning indicator: When riding, if the water temperature reaches H (high temperature), it means the water temperature is too high. Please park the vehicle in a safe location, turn off the ignition, wait for the temperature to drop, check and refill the coolant, then restart the engine, and visit the KYMCO dealer for inspection or repairs immediately. The user should take extra care, riding aggressively when the water temperature is at H (high temperature) may cause engine failures.

19. Speedometer: In ODO mode, pressing the MODE and RESET buttons simultaneously for more than 2 seconds will shift between mile and km units. When switching the setting, all units used in the dashboard will be switched simultaneously. (except that of tire pressure)
20. Fuel gauge: The fuel gauge is divided into five sections.

KEYLESS WIRELESS KEY



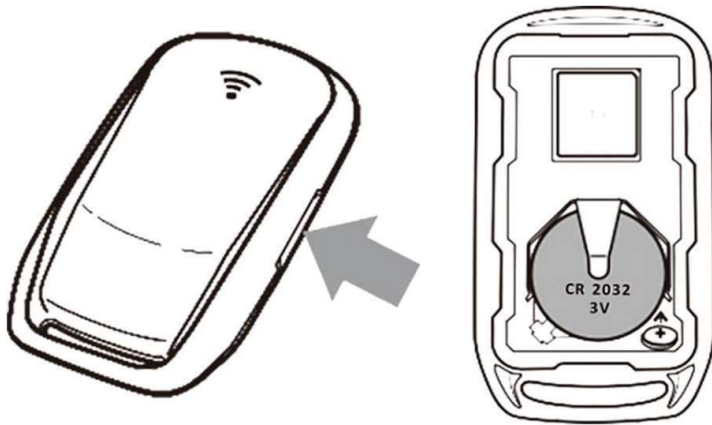
The KEYLESS is the hi-tech electronic main switch that does not need a key (per the figure above). Each vehicle is equipped with 2 sets of remote controllers, and they should be protected carefully. If the wireless key is lost, then you will not be able to open the KEYLESS main switch. For this reason, you must protect the wireless key carefully.

Warning

If both keys of the KEYLESS main switch are lost or damaged, please contact your dealer to provide inspection or replacement services.

Replacing the wireless key battery.

Use appropriate tools for opening.



Model No. of wireless key battery: CR2032

Caution

Ensure the positive terminal of the battery is installed in the correct position.

Do not touch the circuits and terminals inside to avoid malfunctions.

When replacing the battery, do not apply excessive force to the wireless key.

- If both sets of wireless keys are lost or damaged, please visit a KYMCO dealer for relevant inspections or replacements.
- When the wireless car key battery is low on power, it will

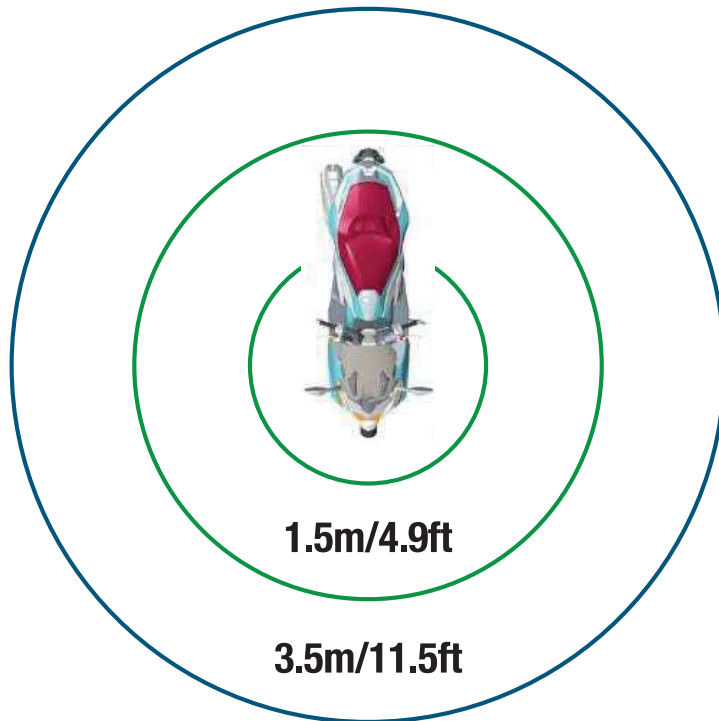
affect the sensing distance. Please replace the battery as soon as possible.

- If one has electronic medical devices implanted in the body, please consult the physician or device manufacturers to confirm whether radio waves will affect these medical devices.
- Do not expose the wireless key to strong radio waves, or it may affect its functionality.
- Do not let the wireless key come into contact with metal objects or coverings, or it may affect its functionality.
- The storage environment of the wireless key should be free of humidity and high temperature.
- There are precision electronic components inside the wireless key, please take note of the following items to avoid possible malfunctions or damage.
- Do not place or store the wireless key inside the storage box, it may be damaged due to vibrations of road surfaces or overheating.
- Do not allow the wireless key to drop, bend, or expose to strong impact.
- Do not immerse the wireless key in water or other liquids
- Do not place heavy objects or apply excessive force onto the wireless key.
- Do not expose the wireless key to direct sunlight, high temperature, or high humidity.
- Do not polish or attempt to alter the wireless key.
- Keep the wireless key away from strong magnetic fields or magnetic objects such as key rings, TVs, and computers.

KEYLESS SENSING DISTANCE

Remote Sensing distance is approx. 0-5m/16.4ft but is for reference only, the real distance is subject to change:

1. Remote sensing antenna (single open space): The best sensing distance is within 1.5m/4.9ft; sensing is not possible past 3.5m/11.5ft.



2. Short-range sensing antenna (single open space): Can only be sensed when in close proximity to the sensing symbol.

Caution

- The best sensing distance is 1.5m/4.9ft, but the actual sensing distance may differ due to environmental factors and battery power.
- When leaving the vehicle, ensure the handlebar has been locked, and the KEYLESS system has been shut off, and bring the wireless key with you.

SHORT-RANGE SENSOR

If the wireless key is out of power and is unable to open the lock, the short-range sensor can be used to unlock it. Place the wireless key on the right side of the center switch set, on the short-range sensor symbol.



Short-Range Sensor Symbol

Caution

- As the battery power of the wireless key diminishes, it will affect the remote sensing distance.
- When replacing the battery, avoid inappropriate operations which may damage the functionality of the key. Please visit the professional service station for inspection.
- The sensing distance is for reference only, and the KEYLESS button is still required to start the power.

- The wireless key uses radio wave technologies, the range of operation will be affected by surrounding environmental factors. If the wireless key is placed in the storage box or front storage box, it may affect the communication between the wireless key and the vehicle, leading to poor sensing.
- If the wireless key is out of power, it may affect the sensing range or even lose its remote detection function. When this happens, the short-range sensing function can be used instead. Place the wireless key within the short-range antenna detection range near the right side of the switch set, press the main switch button for 2 short beep sound to unlock and turn on power.
- If vehicle is still on but wireless key is beyond short-range sensor location, the vehicle will beep 10 times that vehicle is still on. Press Main Switch Button to turn off vehicle
- The wireless key should be carried with you at all times. Do not place it in the storage box or on the vehicle.
- Take precaution when the wireless key enters operable range, as any person within sensing range may start the engine and ride the vehicle away.
- When the wireless key is not within sensing distance, the vehicle may not be started.
- When the wireless key is outside of the sensing distance, there can still be instances of battery consumption. When the user is unable to operate the KEYLESS main switch, the battery in the wireless key should be replaced as soon as possible.

KEYLESS MAIN SWITCH



KEYLESS Main Switch

KEYLESS Controller Anti-theft Setting-Remote Sensing (Locking)

- When the user stops the vehicle and leaves, please press the KEYLESS main switch button. The system will make a long beep sound, and this will complete the power-off and locking action.

KEYLESS Controller Anti-theft Setting-Remote Sensing (Unlocking)

- Press the main switch button, and the main switch will make 2 short beep sounds. The screen will display the power-on scanning screen. The engine can be started once completed.

Caution

- Under the engine non-ignition state, when the wireless key leaves the sensing distance, the system will make a beep sound. After 30 sec the vehicle will turn off.
- When traveling, when the wireless key leaves the sensing distance, the engine will not shut down. It can be turned off manually in an idle state.
- When the wireless key is out of power or there is interference in the environment, leading to the inability to lock the vehicle, the short-range sensor can be used.
- It is strongly recommended that the user use Remote Sensing (Locking) mode to activate the Antitheft Prevention function.
- If you cannot operate the KEYLESS main switch from long range, please replace the wireless key battery or use the near-range sensing function to lock the vehicle.

KEYLESS Controller Anti-theft Setting-Short-range Sensor (Unlocking)

- Place the back of the wireless key near the right-side circular symbol of the center switch set and press the main switch button. The power will be turned on following 2 short beeps, and this will complete the unlocking action.



Short-range Sensor Symbol

! Caution

Under the short-range sensor state, when the wireless key leaves the short-range sensing location, the system will make 10 beep sounds before turning the power off. Press again to turn the power on.

STEERING STEM LOCK

As an additional antitheft option, the handlebar steering stem should be locked when parking the vehicle.

Vehicle Locking Method:

Under the power-off state, turn the handlebar steering stem to the full left, and long-press the “LOCK” button for 2 seconds, a long beep sound will indicate a successful lock.



Steering Stem Lock

Steering Stem Unlocking Method:

Long-press the main switch button, the system will make 2 short beep sounds to power on, and this unlocks the vehicle.

Caution

- The system will make 4 short beeps twice for the unsuccessful lock. Please confirm that the handlebar is completely turned to the left and try locking again.
- If the wireless key is out of power, it needs to be operated through the short-range method.
- Always lock and park the vehicle at a safe place and lock the hand brake for safety.
- After locking the handlebar, confirm that the handlebar has been securely locked before leaving the vehicle.
- Do not park your scooter at locations where safety may be a concern.
- The wireless key storage position may affect the KEYLESS System (e.g. in the rear-side pocket or a backpack).
- After removing the wireless key, the vehicle will become inactive.
- The storage environment of the wireless key should Avoid high humidity and high temperature.
- As the battery power of the wireless key diminishes, it will affect the remote sensing distance. If the wireless key is not operating normally, please contact an authorized KYMCO dealer for repairs.

MAIN SWITCH FUNCTIONS

- There will be 2 beeps when opening the main switch, indicating power-on. At this time, the dashboard will perform a screen scan, indicating preparation for engine start. Short-press 1 time for a beep to turn off.
- To avoid risks of power cut-off by accidentally pressing the main switch, the main switch button is rendered inactive while the vehicle is travelling. It is only operable when the vehicle is at idle.


Caution

The screen will return to the main page when the vehicle is powered off and turned back on. When unlocking the handlebar steering stem is unsuccessful, please confirm that the handlebar is turned completely to the left, and try unlocking again.

RIGHT HANDLEBAR SWITCH



1. Park Alert Switch

 : Push the switch to the left, and all Park Alert Indicators (4 wipers, left and right, front and rear) will flash.

OFF : Push the switch to the right, and all Park Alert Indicators stop flashing.

Caution

Do NOT use the hazard light for prolonged periods after the engine is turned off, as the power of the battery will deplete.

2. Meter Change Button

Press it to enter the Meter mode.

3. Engine Ignition Button



Be sure to squeeze the front or rear brake lever before starting the engine. Then, push this button to start the engine.

Caution

To prevent the battery voltage from becoming too low to start the engine, or the motor is running slowly after starting the engine, please take the vehicle to a KYMCO dealer for inspection.


ENGINE STOP SWITCH



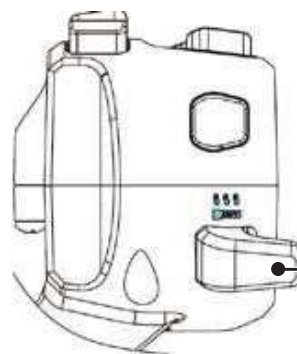
- : In this position ②, engine is stopped and cannot be started; it requires switching back to "○" position ① to start the engine.
- ○: In this position ①, starting the engine is allowed. In the event of an emergency, put the engine stop switch to the "" position to turn off the engine.

! Caution

Please note! When traveling at high speeds, do not use the Engine Stop Switch except in an emergency. Sudden loss of speed will occur, and impose severe safety issues.

- The Main Power is cut off when the Engine Stop Switch is set to the  position, therefore pulling the Brake Lever and pushing the Start Button will not activate the motor.
- The Engine Stop Switch is meant for a temporary engine stop-only.

LEFT HANDLEBAR FUNCTIONS



Grip Warmer Button

1. Handlebar Warmer/Indicator

After turning ON the Main Switch, press and hold the Handlebar Warmer Button for 3s or more to activate/deactivate the Handlebar Warming Function. After activating the Handlebar Heater controller, click the button to select the temperature level in the sequence of 1 > 2 > 3 > 1 > 2 ...

- a. After turning ON KEYLESS Main Switch, a self-check is performed with the LED indicator flashing in a 1- white and 1-red format.
- b. After KEYLESS Main Switch is turned ON and the indicator self-checked, in the event of a Handlebar warmer malfunction, the indicator will flash red, with the Handlebar warmer function disabled. (Refer to anomaly states below for indicator flashing modes.)
- c. After the KEYLESS Main Switch is turned ON, press and hold the button to activate the Handlebar warmer. Indicator lights in white constant for normal operation.
- d. Turn KEYLESS Main Switch is turned OFF or press and hold the button to deactivate the Handlebar warmer. The indicator will go off, indicating the function is switched off.
- e. If the Handlebar warmer is faulty, the indicator will flash in red.

Troubleshooting


After re-starting (Key Off → Key On) the vehicle, indicator will resume normal operation. Clicking the button when the indicator is flashing red will stop the flashing. For your safety, please go to a KYMCO dealer for a check-up.



Dashboard Level Indication:

- a. On activation of the warming function, the Dashboard will receive a signal from the controller and display the current heating level to the user.
- b. Level Indication:
 - Level 1: 45C/113F
 - Level 2: 55 C/131F
 - Level 3: 65 C/149F
 - Warming Function OFF: All goes off

(This is only the setting value; the actual temperature may vary, and it depends on the environment temperature and vehicle condition.)

- c. If the signal from the controller to the dashboard is faulty for any reason, the  symbol flashes in the Dashboard.

Warning

- Please do not use the warming function for an extended time if the vehicle's engine is not running, as this will result in early depletion of the vehicle battery.
- When restarting the vehicle, the handlebar warming function will be reset to off state.

Button 2-4. Cruise Control

2. Set/decelerate button (-)

3. Reset/accelerate button (+)

4. Cruise control setting button:

The vehicle speed must be greater than 28mph to set vehicle speed under cruise control.

The steps are as follows:

- 4-1. Press the cruise control button ON
- 4-2. Start the setting process after the indicator is lit.
- 4-3. Accelerate to the desired cruising speed.
- 4-4. Press the "SET" key.
- 4-5. The Cruising speed setup is complete.

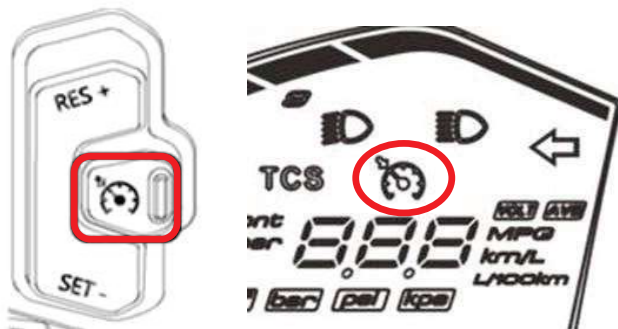
Caution

- After setting the desired speed, it can be readjusted between 45-130 kmh/28-81 mph (adjusted by 2 kmh/1 mph interval).
- To cancel cruise control:
 1. Squeeze the brake
 2. Press the cruise control button.
- RES function: Press this button to resume the previous speed setting after cruise control is canceled.

Cruise Control Settings

1. Setting cruise controls

- a. Press ON to set cruise control. When the indicator light is lit, proceed to set up



- b. Press the SET button to accelerate to the desired speed.



2. Cruise limit adjusting method Under cruise control mode

- Press RES (+) to increase cruising speed
- Press SET (-) to decrease cruising speed



! Caution

- After the desired speed is set, it can be readjusted between 45-130 kmh/28-81 mph (adjusted by 2 kmh/1 mph interval).
- Condition to cancel cruise control:
 1. Squeeze the brake
 2. Press the cruise control button.
- RES function: Press this button if the rider wishes to resume the previous speed setting after cruise control is canceled.
- With brake, press "RES" again and you may return to the speed set previously. If you cancel the setting with the "OFF" button, then set the cruise again.

Warning

- Improper use of cruise control may cause loss of control, and lead to accidents. Do not use the cruise control system when riding in busy traffic conditions, bad weather, or meandering, slippery, rough, or gravel roads.
- When going up or down a slope, the cruise control may not be able to maintain its cruising speed.
- To prevent the cruise control system from starting inadvertently, it should be shut down when not in use, please ensure that the cruise control indicator "Ⓢ" is turned off when not in use.
- When the previous speed setting is too high for the current riding environment, it will be dangerous to use the resume function.
- The memory of the previous cruise set value will be cleared after shutting down the vehicle power for 30 seconds.

5. Turn Signal Switch

Use the blinker when making a turn or changing a lane.

Pressing in the button will deactivate the blinker.

⇐: This position is used for a left turn.

⇒: This position is used for a right turn.

The directional lights do not deactivate themselves automatically and should be deactivated after use to ensure safety.

6. Headlight Switch:

Press the Headlight switch to illuminate the headlight.

Press it again to turn the headlight off.

7. High/Low Beam and Passing Switch

Pushing the switch to "☰" for HIGH, to "☷" for LOW.

Passing Light Switch: Pressing this button will activate High Beam.

8. Windshield Adjust Button

Press the top button to raise the Windshield and press the bottom button to lower the Windshield.

9. Horn Switch

Horn will sound when the Main Switch KEY is turned ON and Horn switch is pressed.

REAR BRAKE LEVER

Rear Brake Lever is located on the the Left Handlebar. To engage the Rear Brake: squeeze the Front Brake Lever with left hand with sufficient pressure.



! Warning

Improper operation of brakes may result in danger.

! Caution

The Rear Brake Lever distance is adjustable between the Brake Lever and Handlebar Grip. To adjust, push the lever forward and turn the adjuster to desired position (1-4) aligning the index mark with the number after adjustment, check lever for proper operations before riding.

FRONT BRAKE LEVER

Front Brake Lever is located on the Right Handlebar. To engage the Front Brake: squeeze the Front Brake Lever with the right hand with sufficient pressure.



! Warning

Improper operation of brakes may result in danger.

! Caution

The Front Brake Lever distance is adjustable between the Brake Lever and Handlebar Grip. To adjust, push the lever forward and turn the adjuster to the desired position (1-4) aligning the index mark with the number. After adjustment, check lever for proper operation before riding.

PARKING BRAKE LEVER

This vehicle is provided with a Parking Brake Lever for locking up the rear tire, to prevent rear tire movement when parking the vehicle on a slope.

Turn the Parking Brake Lever to the left and click into the lock position. To unlock, turn the Parking Brake Arm back to its original position (on the right).



Parking Brake Lever

Warning

- Never use the Parking Brake Lever while riding the vehicle, or loss of control of the vehicle and an accident may occur. Make sure the vehicle is fully stopped before using the Parking Brake Lever.
- When using the Parking Brake Lever, the vehicle is unable to roll.
- Before riding your scooter, verify if the Parking Brake Lever is released, otherwise the performance may be affected, and the Parking Brake may be damaged.

STORAGE BOX

The Storage Box is located under the seat, and it can be used to store a helmet and other objects.

When the KEYLESS main switch is at KEY ON, press the "SEAT" button in the center switch area to open the storage box.

Pushing the seat to its original position will close it.



Storage Box Push button

If the KEYLESS Main Switch is in "KEY OFF" status, hold the wireless key near the main switch and you can open the Storage Box without turning on the Main Switch. However, you cannot open the Storage Box if the KEYLESS Main Switch is outside the sensing range.



Storage Box

Do Not exceed the following load limits:
Storage Box: 10 kg or 22 lbs

Components Inside the Storage Box LED

The lamp lights when the Seat Pad is lifted up, and goes out when the seat pad is closed. (After closing the seat pad, confirm that the "👉" light on the dashboard is turned off)



Led Storage Box Light Switch

Warning

- Store the helmet in the most appropriate position. If the object exceeds the capacity of the Storage Box and you attempt to close the seat forcefully, it may cause damage to the seat.
- Do not put valuables in the Storage Box. Close the Seat when leaving the vehicle to secure your items.
- Keep the wireless key safe to avoid having to replace the complete key set.

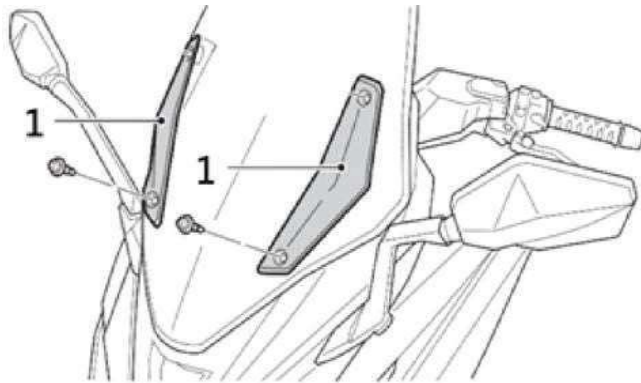
Caution

- You may not be able to put all helmet types in the Storage Box due to the dimensions and the shape. Please select a helmet that is suitable for the capacity of the Storage Box.
- Make sure not to leave the wireless key in the Storage Box while closing it.
- To prevent mold generation, do not leave a wet raincoat or clothing in the Storage Box.
- Empty the Storage Box before washing the vehicle, so that objects do not get wet.
- Do not put fragile, flammable, or perishable objects in it.
- Do not place alcohol, gasoline, volatile objects, lithium batteries, lighters, any electronic items, and items at risk of burning or explosion into the storage box to avoid hazards.

WINDSHIELD

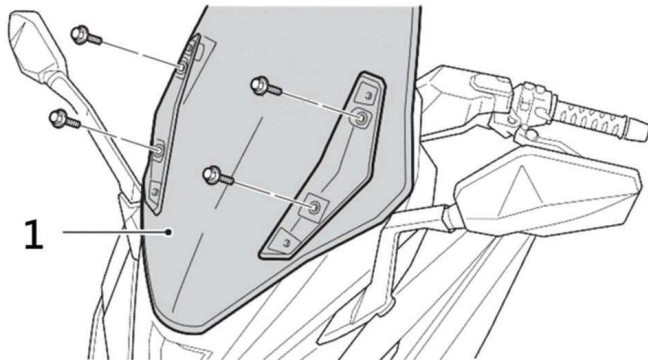
Removal

1. Remove the two screws and then remove the front Windshield protection cover.



Front windshield protection cover

2. Remove the four screws and then remove the Windshield.



3. Installation is the reverse order of removal.
4. Tighten screws with a torque wrench to the torque specified below:

Tightening Torque:

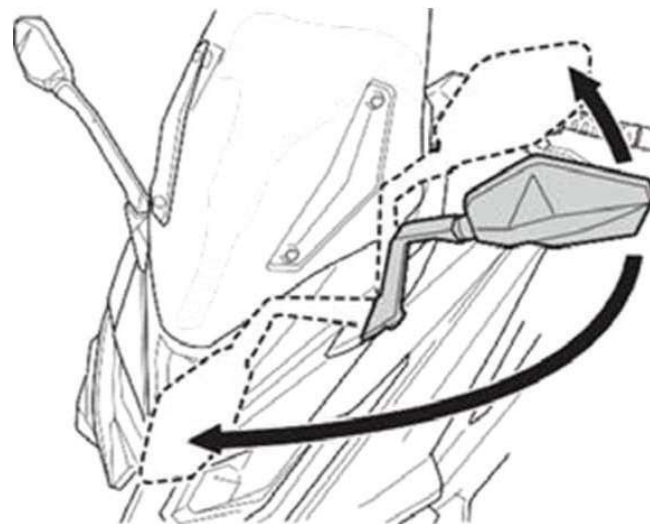
Securing Seat screws
20-28 N-m (204-285.6 kgf-cm) / 14.76-20.66 ft-lb

Windshield screws
10-14 N-m (102-142.8 kgf-cm) / 7.38-10.33 ft-lb

! Warning

A loose Windshield can lead to accidents. Make sure that the screws are tightened as instructed.

REAR-VIEW MIRROR



Rear-View Mirrors are important equipment for enhancing the rider's safety before and during riding. Proper use of the Rear View-Mirror is essential. Each Rear-View Mirror is designed to turn forward and backward. When necessary, you may adjust the Rear-View Mirrors to a suitable position.

! Warning

- Adjust the Rear-View Mirrors to the proper positions before starting the vehicle.
- To ensure safety, never remove the Rear-View Mirrors, and only replace them with genuine parts from KYMCO.

12V POWER SOCKET



12V Power Socket

This vehicle is equipped with a 12V power socket on the right front side inside the storage box.

You may connect a low-power consumption device to the Socket, and to charge the device while the engine is running.

The maximum load for the power socket is 25W.

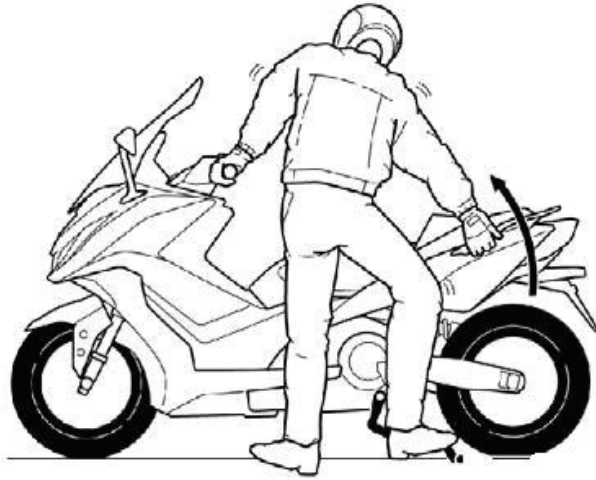
To avoid electrocution or short circuits, make sure to cover the 12V power socket with the protection cap when it is not in use.

Always park your Scooter safely before using the 12V Power Socket.

Warning

- 12V Power Socket can only be used with a running engine.
- To prevent power depletion of the battery, do not charge a device using the 12V Power Socket without running the engine.
- Do not charge a device with a load exceeding 25W; if overheating occurs during charging, the system will cut off power supply automatically.
- After riding and before leaving the vehicle, make sure the device is unplugged, and the Protection Cap is properly covering the power socket.
- Do not attempt to alter the power output to prevent damaging the wiring system of the entire vehicle.

MAIN CENTER STAND



When parking with the Main Center Stand, stop the engine and turn the Main Switch off first. While keeping the vehicle perpendicular to the ground, holding the Left Handlebar with the left hand and the Rear Grip with the right hand, step upon the Main Center Stand using the right foot and exert force with both the right foot and the right hand to lift the vehicle to a standing position.

Warning

- Make sure the Main Center Stand springs up fully before moving the vehicle.
- The Main Center Stand must not come in contact with the ground while riding the vehicle, otherwise it may cause loss of control due to interference with the ground.
- The Main Center Stand may fail to stand up to position if the bracket spring becomes loose, weak, or broken. Go to a qualified service station for replacement as soon as possible.

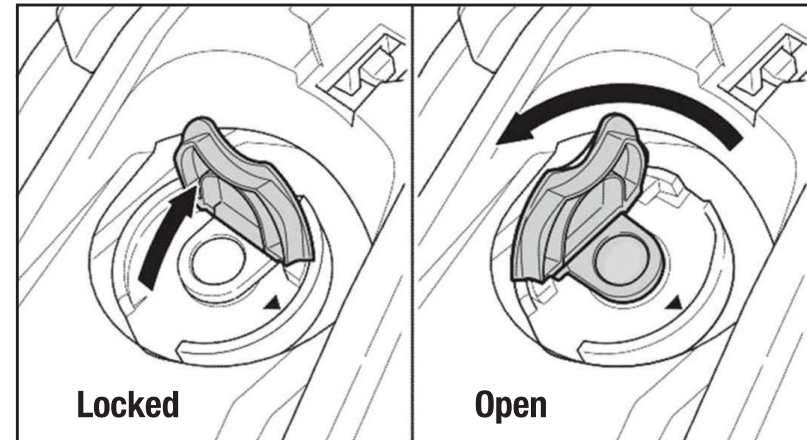
FUEL FILLER CAP



Press the fuel cap button to open fuel cap cover.

Warning

In order to prevent fire hazards caused by fuel overflow, make sure the Fuel Tank Cap is fully locked after refueling.



Open the fuel cap by lifting upwards and twist counterclockwise to open it.

Remove fuel cap to refuel. Once fueled put the fuel cap back on the fuel tank. Twist clockwise to close/lock cap. Close the fuel cap cover unit to attach it securely.

TIRE PRESSURE MONITORING SYSTEM, ELECTRONIC TIRE PRESSURE SENSOR

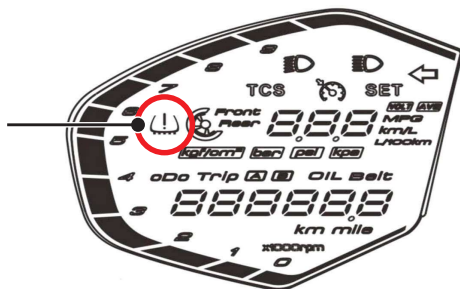
Operation instructions:

TPMS consists of 2 wireless Tire Pressure Sensors (one for each of the wheels respectively, which are installed in the tire valve.) After sensing the current tire pressure, the sensor will transmit the value to the controller. Then transmit the signal to be displayed through the meter and indicator to inform the driver about the current tire pressure value.

Warning

1. When KEYLESS Main Switch is ON, the Tire Pressure Sensor-related Model Symbol on the left side of the Dashboard will light up; if this light stays on constantly, the tire pressure is not normal (as shown in the Figure).

Tire Pressure Indicator Symbol



2. When the KEYLESS Main Switch is ON, the Tire Pressure Sensor related Model Symbol on the left side of the Dashboard will light up; if this light goes out automatically, the tire pressure is normal.

The tire pressure limits shown below will trigger the TPMS warning:

Front Tire Pressure
 $\geq 45.5\text{psi}$ or $< 22.756\text{psi}$

Rear Tire Pressure
 $\geq 53.34\text{psi}$ or $< 23.47\text{psi}$

The owner needs to increase or decrease tire pressure if the reading is too low or too high. Consult the dealer for assistance if you have any questions.

(Standard tire pressure under normal inflation: Front Tire 33.42psi; Rear Tire 38.4psi)

3. Do Not remove the wireless Tire Pressure Sensor or Controller, or the TPMS function will be lost.
4. No re-adjustment of the TPMS is required when a new tire or rim is replaced.
5. Re-adjustment of the TPMS is required when replacing a new wireless tire pressure sensor and controller; please consult a qualified service station.

Tire Pressure Monitoring System Learn Code

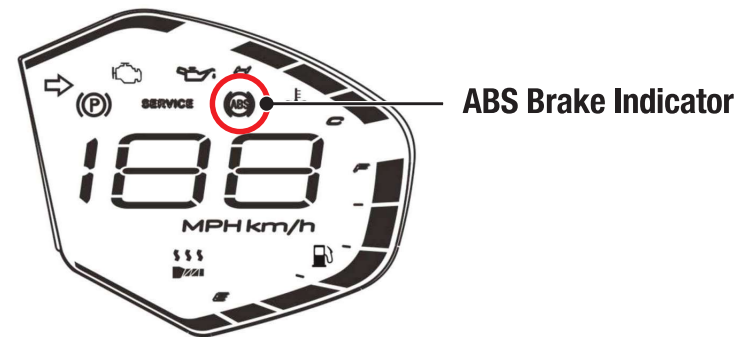
Operation instructions:

Re-adjustment of TPMS is required when replacing the new wireless tire pressure sensor and controller. When the tire pressure is at the required level, according to tire pressure gauge, the tire symbol remains lit. Please see a KYMCO dealer or a qualified service station to check the TPMS.

Caution

- After acquiring the vehicle, inflate the tires to over 20psi and let the TPMS learn the initial value automatically to facilitate future normal operation.
- Tire Pressure values are for reference only.
- If the tire pressure cannot be detected, it means the tire pressure detector battery is running out of power. In this case, replace the part. See a KYMCO dealer or a qualified service station.

ABS (Anti-lock Braking System)



The ABS Brake System is designed with a double-electronic control mode. It can be used to activate the front, rear, and pedal brakes separately. When ABS is activated, the rider can feel pulses acted by ABS on the brake lever; in which case the rider needs to hold the brake lever constantly, without "press-and-releasing" it, or the ABS effect may be diminished.

The ABS Brake Indicator is located on the right upper corner of the Dashboard (as shown in the figure); it lights up when the Main Switch is activated and does not go off automatically. The ABS Brake Indicator only goes off when the engine is started and the vehicle runs above 6km/3mph.



ABS System

- If an emergency braking event occurs in response to a specific road condition, ABS helps prevent a locked wheel resulting from the sudden braking action, allowing the rider to steer the vehicle smoothly. ABS controls the brake force automatically to prevent the tire from skidding.
- An ABS system will not shorten braking distance in the following conditions: when riding on a loose or uneven road surface or a descending slope, the braking distance is longer than a vehicle without ABS.
- An ABS System comprises of an ABS ECU and front and rear tire speed sensors. Using tires not conforming to original specifications may affect the detection of speed sensors and result in abnormal ABS activation.

Caution

- If ABS fails, the ABS Brake Indicator will light up; ABS may lose its function, but normal brake operation is not affected.
- When riding on a rough or pebbled road surface, effective ABS braking distance will become longer.
- Always keep a proper safety distance when following other vehicles.
- ABS gives optimal performance with a longer braking distance.
- To avoid deterioration of ABS performance, do not remove or damage the wheel sensor or the rotor of wheel sensor.
- When activating the power of the KEYLESS Main Switch, or when the vehicle speed exceeds 3mph, ABS will execute a self-diagnosis. During this self-diagnosis session, vibration may occur on the Brake Lever if you pull it gently.

Warning

- Using tires not conforming to original size specifications may result in malfunctioning of the ABS or even an accident due to improper activation of the Anti-lock Braking System. Therefore, it is a must that you use tires conforming to KYMCO's specifications.
- When ABS activates, you may feel a light vibration on the Brake Lever, which is normal.
- When vehicle speed is below 6kmh/3mph, the ABS will not activate.
- When the power fails or the system is faulty, it will lead to the failure of the ABS System. At this time, the ABS brake indicator will be lit.

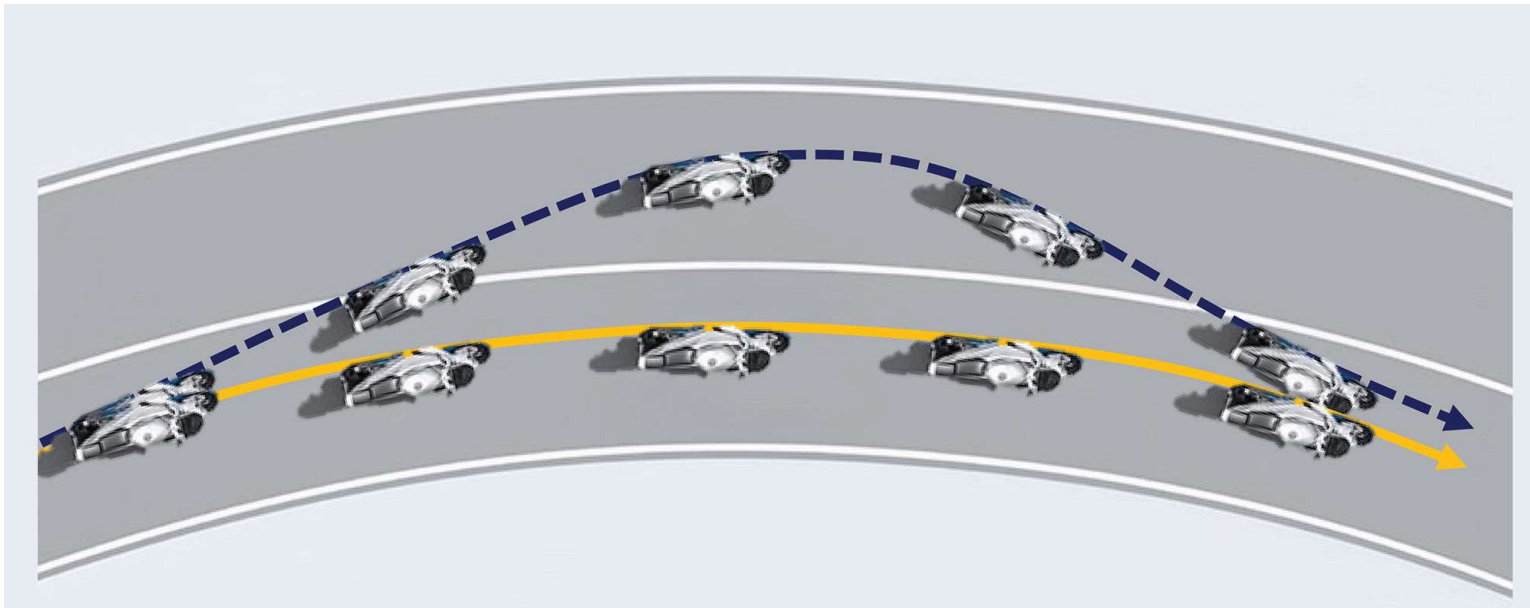
AIBS (Advanced Integrated Brake System)

When using the IMU Inclusion Angle Sensor, the AIBS System can detect the inclination angle of the vehicle when negotiating through a curve. When equipped with the ABS/TCS System, it also calculates the optimal braking force and optimal traction force in order to achieve stabilized curve negotiation performance.

If the vehicle becomes uncontrollable, the AIBS will intervene and exert the optimal brake to assist the rider to regain control of the vehicle.

Caution

- The curve-negotiation feature only applies to the physical limit that is designed for. (excessively large inclination angles limit the function of AIBS).
- The AIBS is not intended to be an owner/user serviceable system. It is extremely sensitive, do not attempt to dismantle, modify, or change any part of the AIBS to avoid negatively affecting the performance.



TCS



The indicator light will light up in amber color if TCS is on when turning on the main switch. Once the vehicle speed is over 6 km/h, the indicator light will go off automatically. The TCS is functioning normally at this time.

When indicator:

- Does not light up: TCS is on but not functioning.
- Flash in amber light: TCS is on and is functioning.
- Show solid amber light: TCS is malfunctioning. Please have a KYMCO dealer check the vehicle as soon as possible.
- Show solid green light: TCS is off.

Introduction of TCS

Excessive throttle or rides on a slippery surface may cause the rear wheel to slip. The traction control system helps the vehicle maintain traction **when** the situation above happens. If sensors detect that the rear wheel is starting to slip (uncontrolled spinning), the TCS assists by regulating engine speed until traction is restored. You may notice changes in engine response or exhaust sound.

Warning

- The TCS is not a substitute for riding appropriately for the conditions. The TCS cannot prevent loss of traction or front wheel slip while the rider is entering turns at excessive speed or accelerating hard at a sharp lean angle or braking too hard. As with any vehicle, approach surfaces that may be slippery with caution and avoid especially slippery surfaces.
- Use only the specified tires. Using different size tires could result in the TCS not operating correctly and may cause a hazardous condition.

■ NOTE: Turning off the TCS is recommended before starting the engine in cold weather, if opening the throttle to assist the engine start or warm up is necessary. After that, turn on the TCS.

Power/Rain/TCS Modes: Press “Mode” button to select desired power setting:

1. Power Mode (orange) + TCS ON (orange)
2. RAIN (blue) + TCS ON (orange)
3. Power Mode (orange) + TCS OFF (blue)




Caution

- Engine remains inactive under KEY ON and you may switch between 1, 2 and 3 as required.
- After starting the engine, you may switch between 1, 2 and 3 as required under idling status.
- When riding the vehicle, power mode cannot be switched.
- TCS light goes off when speeding up to over 6km/h.


STARTING THE ENGINE

- Lift up the Main Center Stand before starting the engine.
- Check oil and gasoline levels before starting the engine.



-  : The Engine will stop and cannot be started when setting the switch to this position. Re-start of the engine is only possible after setting the switch to  position.
-  : The Engine can be started when setting the switch to this position.



1. Confirm that the KEYLESS wireless key is within the sensing range.
2. Press the main switch button to turn the power ON.
3. Make sure the throttle grip is fully closed.
4. Confirm that the engine stop switch has been switched to “”.
5. Hold the front brake lever or the rear brake lever, and then press the “Electric Start” button and the engine will start.



6. If starting is difficult, release the Start Button and wait for a few seconds before trying again. Each re-try shall not exceed 5 seconds, to preserve battery power.

Caution

- After stopping the vehicle, press the main switch button to the “OFF” position to prevent the battery from discharging.
- Remove finger from the Start Button immediately after the engine starts.
- Never push the start button when the engine is running, or engine parts may get damaged.
- When starting the engine, squeeze the rear brake lever to illuminate the brake light upon vehicle start-up.
- Allow a brief warm-up after starting a cold engine (about 1-2 minutes). In mountains and cold areas, prolong the warm-up (about 3-5 minutes), to facilitate engine operation and trouble-free riding.

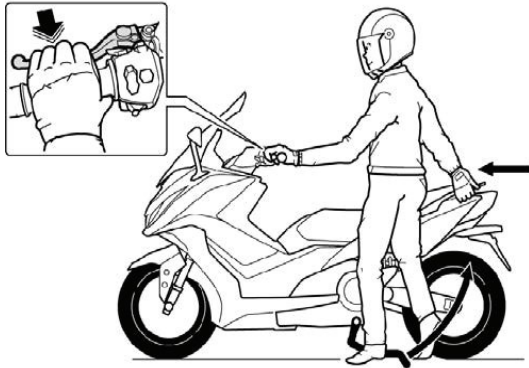
Warning

Before applying the throttle to move the vehicle, keep applying the rear brake. DO NOT increase engine RPM while the rear brake is applied.

PROPER RIDING METHOD

PROPER RIDING METHOD

- Keep the Rear Brake Lever applied, then push the vehicle forward, the Main Center Stand will spring up automatically.



- Mount the vehicle from the left side and then sit squarely, with both feet touching the ground to prevent tipping. Adjust the rear view mirror to the intended positions.

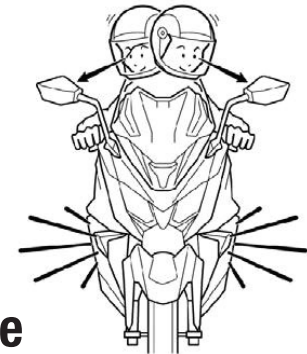


Warning

- Keep the engine rpm away from the red zone.
- After starting the engine, do not raise engine rpm while holding the vehicle stationary.
- Before moving, keep the Rear Brake Lever applied. DO NOT raise engine rpm while stationary with the rear brake applied.

Proper Riding

Before taking off, switch on the Turn Signal, check traffic conditions in both directions, and slowly twist the Throttle Grip to start



Running-in a New Engine

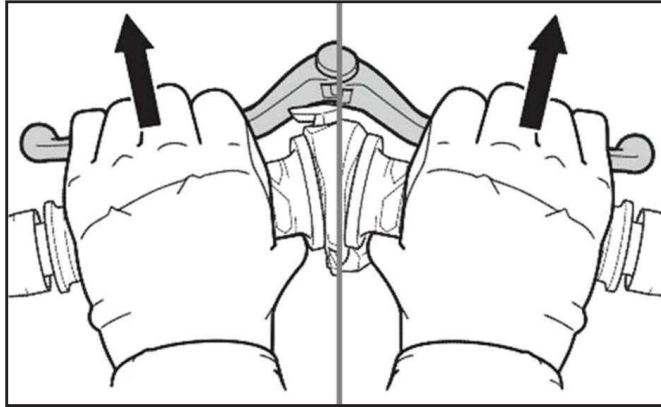
Run-in Period of a new engine is 186mi; keep speed under 50mph during this period.

Avoid speeding-up rapidly.

Warning

High-speed riding in the run-in period may result in engine damage.

RELEASE FRONT AND REAR BRAKE LEVERS



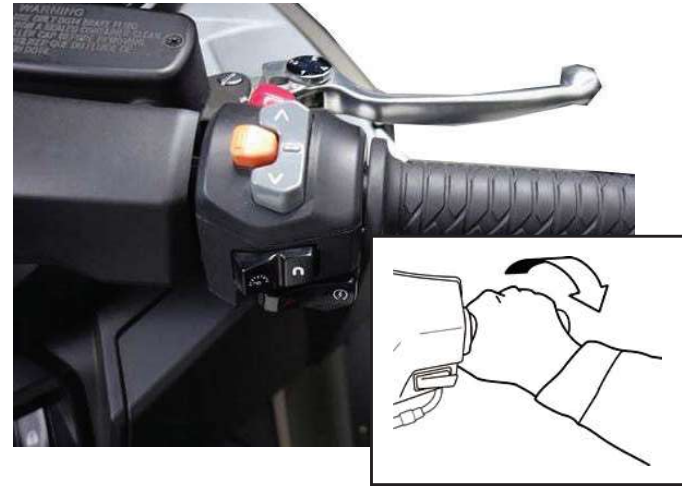
Twist the Throttle Grip to adjust scooter speed.

Warning

After releasing the brake, do not turn the Throttle Grip abruptly, or the vehicle may accelerate dangerously.

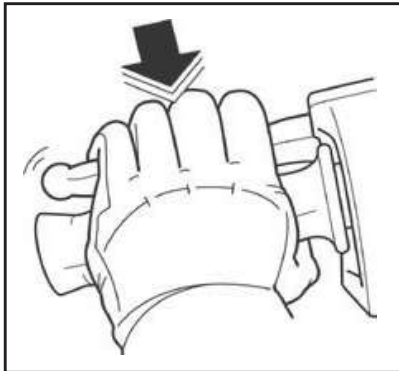
Caution

To prolong engine service life, do not speed up suddenly before the vehicle is warmed up.

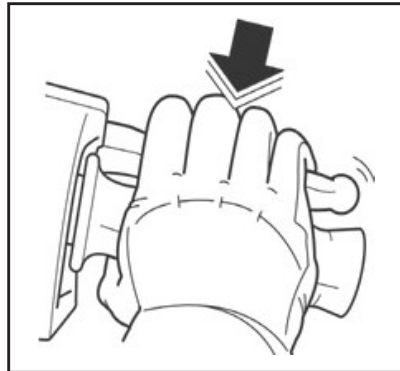


- Speed is controlled by twisting the Throttle Grip.
- Twisting the Throttle Grip farther will increase the vehicle's speed. Twist the Throttle Grip slowly to gently increase vehicle speed during takeoff or ride on an up-slope.
- When returning the Throttle Grip to the original position, the vehicle will reduce its speed.
- Do not turn the Throttle Grip rapidly, or the vehicle may launch forward suddenly.

BRAKES



Front Brake

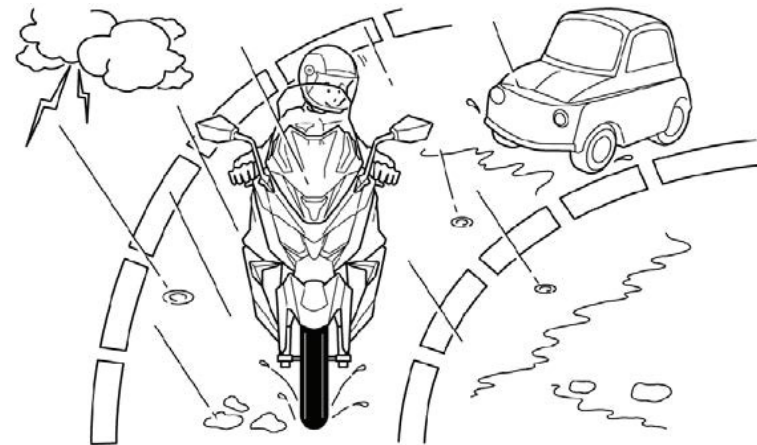


Rear Brake

Warning

- Braking on a wet or sandy road requires a longer effective braking distance and is more difficult.
- Slow down while riding on mountain roads; it will be more difficult to brake while riding down-slope, and more dangerous as well.
- Do not brake or turn abruptly.
- Abrupt braking and turning is dangerous and can cause loss of traction, resulting in loss of vehicle control and possibly an accident.
- If you lack confidence about the operation of this vehicle, please proceed slowly to practice and familiarize yourself with the braking system.

- A longer braking distance is required when the road surface is wet, reduce speed, and engage the brakes sooner.
- When running down-slope, return the Throttle Grip to the closed position and apply the brake intermittently to reduce speed.
- Avoid forceful or emergency braking especially when the vehicle is leaned to one side, or a loss of traction or accident may occur.



Warning

- When unusual conditions occur, such as, wet road surfaces, railroad crossings, manhole covers and steel plates covering road construction are very slippery.
- Slow down and take extra precautions.

PROPER PARKING METHOD

When approaching a parking location:

Switch on the Turn Signal in advance and take heed of vehicles behind you while slowly pulling over.

Twist the Throttle Grip to the closed position, then apply the front/rear brakes while still a distance from the parking location. At this time, the brake light will be lit, alerting vehicles approaching from behind.

At full stop of the vehicle

Turn off the Turn Signal.

Turn off the KEYLESS Main Switch.

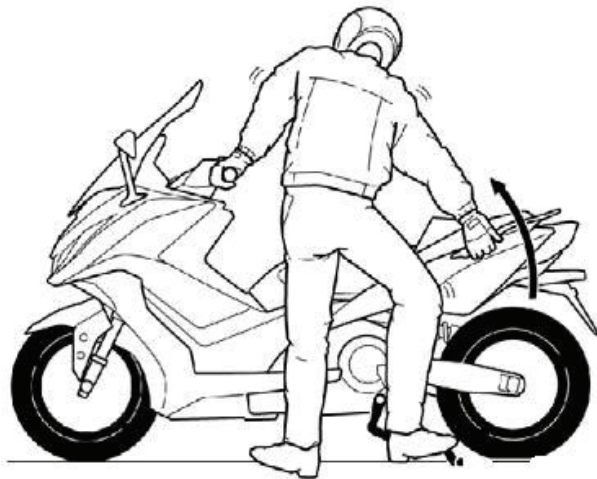


Warning

- If the KEYLESS Main Switch can be turned off while riding the vehicle, it means the fail-safe function has failed. Go to a KYMCO dealer or a qualified service station for repair as quickly as possible.
- Lock the steering when parking the vehicle and keep the wireless key with you at all times.

Parking the Vehicle

- Stop the vehicle in a flat/level parking location, making sure the vehicle and rider are clear of traffic. Standing on the left side of the vehicle, lower the Main Center Stand to the ground with the right foot.
- Lowering the Main Center Stand on unlevel ground may result in the vehicle tipping over.
- Hold the Handlebar with left hand and keep it straight; while pressing down the Main Center Stand with right foot, grasp the Left Rear Grip beside the Seat Pad with right hand and pull upwards firmly.



A Tipped-Over Vehicle

To restart a tipped-over vehicle, turn the KEYLESS Main Switch off and on again before restarting.

Warning

- To prevent the leakage of gasoline from the tipped-over vehicle leading to a fire, the main switch should be turned off manually, or the ignition switch be set to the shut-off position when the vehicle is tipped over.
- The rider should not attempt to lift the vehicle alone if he isn't sure he has the strength. Request assistance from others to lift the vehicle to avoid injury.
- If the rider is trapped under the vehicle, call for help to avoid injury while attempting to get free of the vehicle.



MAINTENANCE AND CARE

OWNER'S OBLIGATION

As the owner of the AK 550 Premium, you are responsible for the performance of the required maintenance based on the recommended "Maintenance Schedule" on the next page of this manual. Regular maintenance is critical for the performance of the vehicle but also is equally important to control the emissions of the vehicle to comply with the Federal government requirements governed by the U.S. Environmental Protection Agency and the California Air Resources Board for vehicles sold and operated in the state of California.

The following obligations must be fulfilled by the owner to maintain the validity of the KYMCO Emission Systems Warranty:

- A. The Owner must deliver the vehicle to an authorized KYMCO dealer or equally qualified service station for inspection, maintenance services, and adjustments according to the Maintenance schedule in the owner's manual. The inspection, maintenance services, and adjustments are to be performed at the owner's expense.
- B. The Owner must provide critical information of the Warranty Registration such as initial retail purchase date issued at the time of purchase to an authorized KYMCO dealer at the time warranty repairs are performed on the vehicle. The Owner may also be required to show that the required maintenance related to the alleged defect was performed.
- C. The Owner should have detailed records or receipts indicating that the required periodic maintenance has been performed per the Maintenance schedule in the owner's manual.

MAINTENANCE REQUIREMENTS

To ensure safe and low-emission riding, day-to-day care and regular maintenance are essential. It is the owner's responsibility to perform regular checks. KYMCO recommends the following maintenance:

I. Scheduled Maintenance

Scheduled Maintenance should be performed at specified intervals according to the maintenance schedule. It is recommended that any problem you notice should be brought to the attention of your KYMCO dealer or qualified service station for advice. KYMCO highly recommends that all scheduled maintenance be done by a KYMCO dealer or qualified service station.

How to read the Maintenance Schedule:

Whichever Comes First:

The required service intervals are defined by either mileage or time, whichever comes first.

“X1000 km and X1000 mi”:

1. The mileage is shown in both Kilometers (km) or Miles (mi) by certain interval.

2. Distance intervals start from 1000 km or 0.6 miles to 5,000 km or 3,000 miles all the way to 30,000 km or 18,000 miles, which is the defined “useful life” for a Class III motorcycle/scooter by federal regulations.

“Month”:

Intervals start from 1 month to 6 months, all the way to 36 months, which is the defined “useful life” for a Class III motorcycle/scooter by federal regulations.

Air Filter Servicing (as an example)

Maintenance schedules indicate that the Air Filter needs to be inspected at 10,000 km/6,000 miles or at month 12 whichever comes first. The Air Filter needs to be replaced at 20,000 km/12,000 miles or at month 24, whichever comes first.

Maintenance Items	Frequency							
	Whichever Comes First	Odometer Reading						
	x1000 km	1	5	10	15	20	25	30
	x1000 mi	0.6	3	6	9	12	15	18
	Month	1	6	12	18	24	30	36
Air Filter Servicing				I		R		I

Please refer to the Maintenance Schedule on the next page for details.

MAINTENANCE SCHEDULE

Maintenance Items	Frequency							
	Whichever Comes First	Odometer Reading						
	x1000 km	1	5	10	15	20	25	30
	x1000 mi	0.6	3	6	9	12	15	18
	Month	1	6	12	18	24	30	36
Air Filter Servicing				I		R		I
Spark Plug				I		R		I
Throttle Free Play			I	I	I	I	I	I
Valve Clearance		Every 40000 km (24000 mi)						
Hose Inspection				I		I		I
Engine Oil		R	R	R		R		R
Engine Oil Screen		C	C/R	C/R		C/R		C/R
Engine Oil Filter		R		R		R		R
Fuel Injection Diagnostic Tool				I		I		I
CTV Filter				I		R		I/R
CVT Clutch Removal				I		I	I	I
Brake Fluid			I	R	I	R	I	R
Brake Pad Replacement			I	I	I	I	I	I
Brakes			I	I	I	I	I	I
Switches			I	I	I	I	I	I
Steering			I	I	I	I	I	I
Lights			I	I	I	I	I	I
Torque Specifications			I	I	I	I	I	I
Wheels/Tires			I	I	I	I	I	I
Coolant Level Check			I	R	I	R	I	R
Drive Belt (CVT)						R		
Final Drive Belt			I	I	I	I	I	I

I: Inspection; clean, lubricate, replenish, remedy or replace as required A: Adjustment C: Cleaning R: Replace T: Tightening M: Maintenance D: Diagnosis

Remark: If the engine or clutch is replaced, the following item should be recorded before the replacement: engine oil, engine oil screen and engine oil filter.

II. Special Instructions on Emissions Control Systems

Exhaust Emission Control System

AK Premium is equipped with the following parts in the Exhaust Control System:

- Electronic Control Unit (ECU)
- Crankcase Ventilation System
- Catalytic Converter
- Throttle Body Injection System

Various sensors:

- Heated Oxygen Sensor
- Water/Coolant Temp Sensor
- Throttle Position Sensor
- T-MAP Sensor #1
- T-MAP Sensor #2
- Engine RPM Sensor
- Angle Detect Sensor

The exhaust emission control devices of this vehicle uses the fuel injection system to control the emission pollution effectively. Through the catalytic converter in the exhaust system, the pollutants are transformed to achieve low exhaust pollution.

Warning

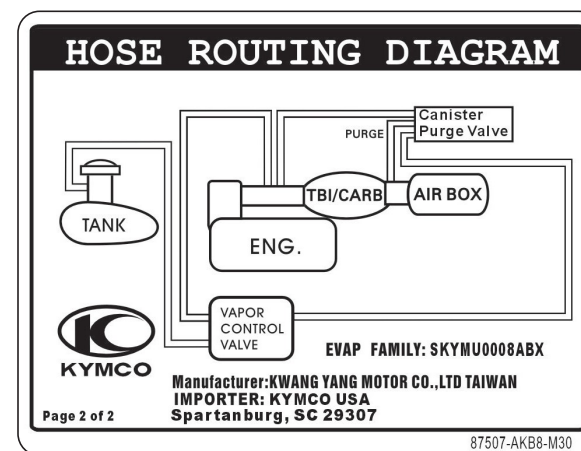
- The exhaust emission control devices in the vehicle use the fuel injection system to control the emission pollution effectively. ALL service required for components such as Heated O2 Sensor and Catalytic Converter are highly skill-sensitive and should be performed by a KYMCO dealer or a qualified service station.
- Ensure the exhaust emission control system functions normally, DO NOT modify the vehicle.
- Never turn off the main power switch while riding the vehicle. Otherwise, a large amount of unburned fuel mixture will enter the muffler and damage the catalytic converter. Only use unleaded and 91(R+M)/2 gasoline or better fuel. Leaded gasoline results in damage and failure of catalytic converters.

Evaporative Emission Control System

The E.E.C device is used to collect the evaporated oil and gas from the gas tank and the throttle valve, to reduce the emission from being released into the atmosphere and cause environmental air pollution.

Inspection of evaporative emission control system (E.E.C)

- The emissions value of the vehicle model complies with the 7th-phase regulation standards. Please do not adjust the settings or the parameters.
- Please do not remove or modify the vacuum tube of the E.E.C device.
- To reduce emission pollution, when the vehicle is idling, do not twist the Throttle Grip repeatedly.
- Aside from regular maintenance, if visible irregularities are noticed (such as difficulties in ignition, emission of black smoke), visit a KYMCO dealer or a qualified service station for inspection or repairs immediately.



Vehicle Emission Control Information (VECI) Labels

There are two VECI labels under the seat of your vehicle. Please review the contents of the labels carefully for important Emission related information and Engine Tune up specifications.

III. General Inspection and Maintenance

General maintenance should be performed on a daily basis. You can perform some inspection and/or maintenance procedures by yourself. Please be aware that do-it-yourself maintenance may affect warranty coverage. Following the instructions in this manual is highly recommended. For details about warranty coverage, refer to the “Owner’s Warranty Information Booklet”.

Warning

- If your vehicle is not properly maintained, it could result in serious damage to the vehicle and possibly serious injuries or even death.
- Engine exhaust, some of its constituents, and a wide variety of vehicle components contain or emit chemicals known to the State of California to be hazardous to health. Work in a well-ventilated area.
- Oils, fuels, and fluids contained in vehicles as waste produced by components wear contain or emit chemicals known to cause health issues. Avoid exposure and wash any affected area immediately.
- Make sure the exhaust system has cooled off before performing any maintenance.
- Always wash your hands after handling any vehicle component checking and/or maintenance procedures.



CHECKS BEFORE RIDING

Always perform pre-ride checks before riding the vehicle. To keep your vehicle in safe and effective operating condition, perform regular checks, adjustments, and maintenance according to the maintenance schedule (see p. 57).

Exhaust Control System can reduce generation of pollutants in the exhaust gas of your scooter. Please perform maintenance according to the schedule, ensuring compliance with exhaust emission standards.

Warning

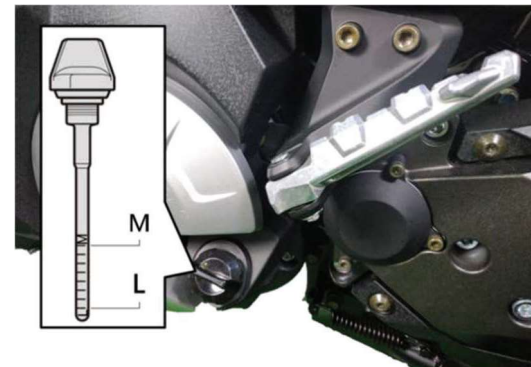
- If you are not familiar with motorcycle inspection and maintenance, please contact a KYMCO dealer or a qualified service station for services.
- Injury or electric shock may occur if bodily contact is made with a running engine. Please stop the engine while performing vehicle maintenance.
- To prevent burn hazards after riding the vehicle, DO NOT touch its engine, muffler, brake disc, brake caliper, or brake pad until after it has cooled down.
- When performing maintenance, never run the engine in an enclosed space; there is a risk of carbon monoxide poisoning from exhaust emissions.
- To avoid damaging the vehicle, never carry out any maintenance without consulting a KYMCO dealer or a qualified service station.

ENGINE OIL AND OIL FILTERS

Before riding the vehicle, check engine oil for proper oil level and any signs of leakage. Engine Oil and Oil Filters shall be replaced regularly in compliance with the maintenance schedule.

CHECK/REPLENISH ENGINE OIL

1. Park the vehicle on flat ground and place the vehicle on the Main Center Stand. Activate the KEYLESS Main Switch and start the engine, idle for about 3 minutes without applying the Throttle, and then stop the engine. Allow the vehicle to sit for another minute.
2. Pull out the Oil Level Guide and wipe it clean, insert the Oil Level Guide gently
3. Pull out and check the oil level; when the oil surface is close to L level, please refill the engine oil to between M and L.



! Caution

- Engine and Muffler can be extremely hot. Take special care to prevent burns while checking oil levels.
- After warming up, stop the engine and wait for 1 minute; then verify oil level with the Oil Level Guide.

Recommended Oil Specification

Specification:

SAE: 10W/40 MA API: SL Class or better
See maintenance schedule for oil change service.

! Warning

- Low-quality oil may cause engine failure.
- To ensure oil replacement of the vehicle meets recommended specifications, please consult a KYMCO dealer or a qualified service station.

! Caution

- Vehicles sitting on an angle may cause an inaccurate reading of oil level.
- If oil is checked or replaced immediately after stopping the engine, be especially careful not to get burnt.

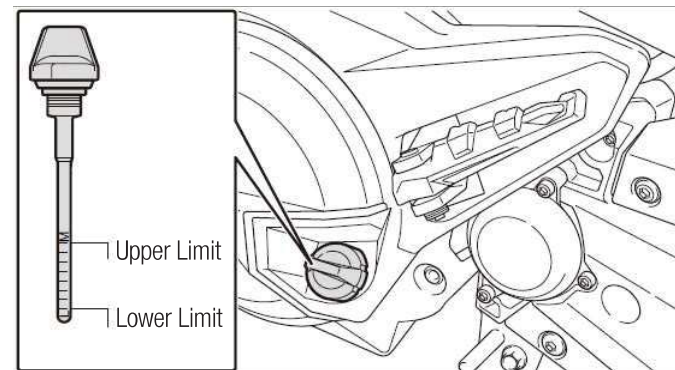
OIL CHANGE SCHEDULE

- Please consult Maintenance Schedule on page 57

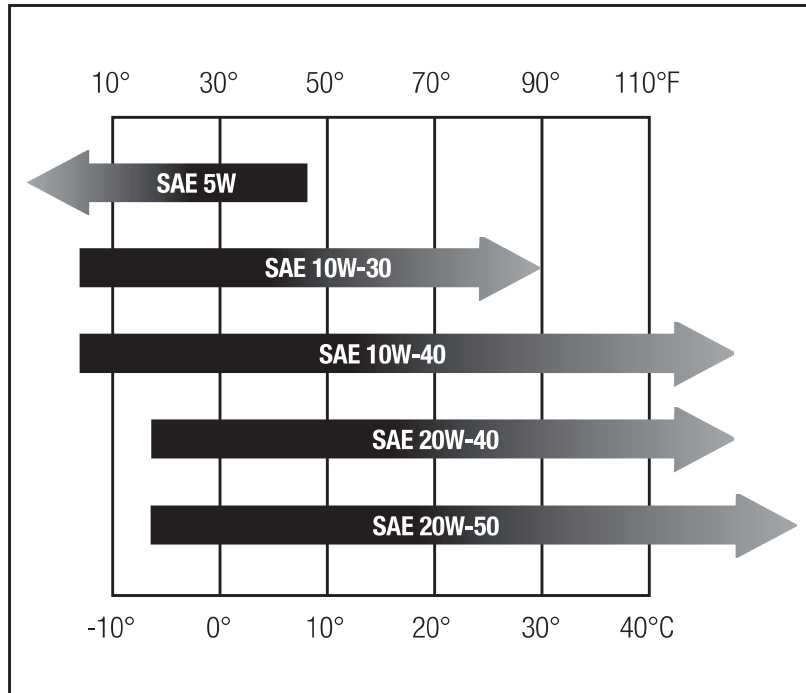
If engine or clutch is replaced, refer to the Maintenance Schedule for more details.

Oil Capacity:

Dismantle:	Change oil:
0.79gal (full capacity)	0.69gal (excluding oil filter)
	0.71gal (including oil filter)



ENGINE OIL VISCOSITIES

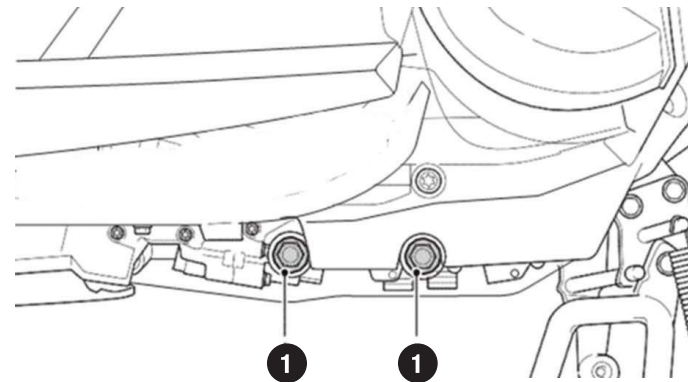


! Caution

To avoid using poor-quality oil, please go to a KYMCO dealer or qualified service station for an oil change.

OIL CHANGE METHOD

1. Remove the Oil Level Guide.
 - ◆ Remove two Drain Bolts.
 - ◆ Drain all the oil. Warming up the engine before changing the oil facilitates oil draining.
2. Clean the the Oil Screen and re-install it. Tighten the Drain Bolt after wiping it clean.
3. Fill with fresh engine oil and the specified volume shall be 0.69gal each time (if the engine oil filter is also replaced, then the specified volume shall be 0.71gal).
4. Fully tighten the Oil Level Guide.
5. After warming up the engine, stop engine and wait for 1 minute; then verify the oil level with the Oil Level Guide.



1. Drain Bolts (Qty:2)

Caution

- It is recommended to use wet clutch safe 4-stroke motorcycle-specific engine oil.

The following conditions may accelerate oil deterioration. An early oil change is advised.

- ◆ Riding on pebbled roads often.
- ◆ Riding short distances often.
- ◆ Idling often.
- ◆ Riding in cold weather.
- When replenishing oil, make sure the oil level does not exceed the upper limit mark.
- Do not mix-use oils of different brands, classes or use low-quality oil; they may cause engine wear or damage.
- Change oil while the engine is still hot; be careful not to burn your skin.

Oil Filter Element Tightening Torque: 8.118 ft-lbs
Engine Oil Discharge Bolt Tightening Torque: 6.642 ft-lbs
Magnet Screw Tightening Torque: 20.66 ft-lbs

Precautions on Oil Change

- Excessive and insufficient oil amounts can both affect engine performance.
- Excessive Oil-Increased friction resistance of certain parts in the engine, which lowers output power and increases the engine temperature, leading to early deterioration of engine.
- Insufficient Oil-Reduced oil supply to moving parts in the engine, therefore results in worn parts, part damage, etc.
- KYMCO Emissary Engine Oil contains specific additives during the manufacturing process.
- Using additives bought from the aftermarket may deteriorate the oil, affect lubricating properties, and shorten the service life of the engine.

CHECKING/REPLENISHING THE FUEL

Replenish gasoline as soon as possible when the Fuel Indicator on the Dashboard approaches the last segment near E.

Replenish with #91 or higher-octane Unleaded Gasoline as soon as possible.

USING THE FUEL TANK CAP

Stop the Engine first

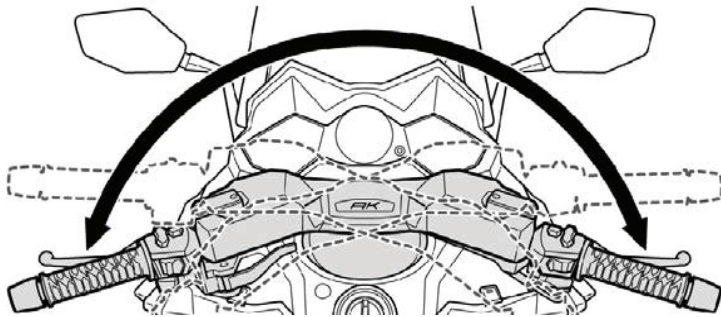
1. Press the KEYLESS Main Switch to OFF. Press the Fuel Tank Cover button to unlatch cover. Lift and twist Fuel Cap counterclockwise to open.
2. Use only 91(R+M)/2 unleaded gasoline or better.
3. Reinstall the Fuel Tank Cap by twisting clockwise to lock. Close the Fuel Tank Outer Cover and confirm it is latched securely.

Warning

- DO NOT smoke when refueling.
- Stop the engine when refueling.
- When filling up the gas tank, keep the fuel level below the baseline plate, otherwise the fuel will overflow.
- It is recommended to add injector cleaner in the fuel every 10,000km/6000 miles to help keep injectors clean.
- Avoid operating the Fuel Pump for a prolonged time when the Fuel Tank is nearing empty, which may damage the Fuel Pump.

CHECK THE STEERING STEM

- Pushing/pulling the handlebar up and down, forward and back, and left and right to check if the handlebar is too loose or too tight.
- Check the Handlebar for any interference.
- If any of the above issues are present, go to a KYMCO dealer or qualified service station for repair.



CHECK AND ADJUST THE FRONT AND REAR BRAKE COMPONENTS

- Adjust brake lever clearance using an adjustment knob (total 4 adjustment positions).
- Push the brake lever forward when adjusting the knob (default setting is 3).
- After adjustment, pull the Brake Lever until reaching a position where you feel comfortable; check if the clearance at the front end of the Brake Lever is within the specified dimension.



Adjust Brake Lever

INSPECTION OF FRONT /REAR BRAKE FLUID

1. Position the handlebar forward and check the brake fluid in the left and right fluid reservoirs. Keep the levels between the upper and lowers marks.
2. If the fluid level is approaching the lower limit “ L ” mark, check the brake pad’s condition and amount of wear.
3. See maintenance schedule for replacement of brake fluid



Brake fluid peep window on the left

FRONT/REAR BRAKE FLUID REPLENISHING

- Straighten the Handlebar, remove 2 screws securing the Reservoir Cover, then remove the Cover.
- Replenish the Reservoir with the recommended DOT-4 Brake Fluid to the Upper level. Install Reservoir Cover and tighten 2 screws.
- Replace brake fluid (see maintenance schedule)

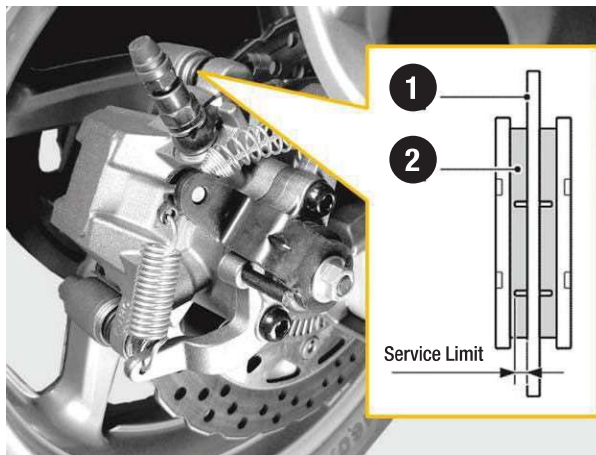


Warning

- Mixed use of brake fluids of different brands and/or specifications may result in braking faults and danger.
- When replenishing the brake fluid, protect painted body parts to prevent damage.

CHECK THE FRONT/REAR BRAKE PADS

- Verify the braking effect of the front and rear brakes at low speed.



1. Brake Disc 2. Brake Pad Lining

- Check Brake Pad Lining Limit
Replace the brake pads when the wear limit is reached, please contact a KYMCO dealer or a qualified service station for replacement.

CHECK THE TIRES

- Check the front and rear tires for proper air pressure. If necessary, inflate the tire to reach the specified pressure.
- If the vehicle feels unstable when riding, ensure the tires are at the proper pressure using a tire pressure gauge.

Pressure measurements of cool tire:

Front Wheel	Rear Wheel
33 psi	38 psi

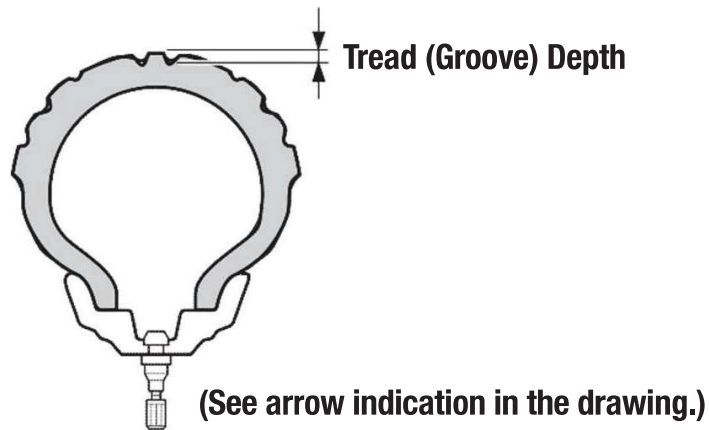
- Inspect the tire tread for any foreign bodies; remove them, if present, before riding.
- Replace the tire if there is a hole or tear, or the limit of the tread depth is reached.

Warning

When the tire pressure is low or the tires are incorrectly balanced, the vehicle may produce vibration and handle poorly while riding. This is an unsafe condition and must be corrected immediately.

TIRE TREAD ABRASION INSPECTION

Check The Tires Before Riding The Vehicle.



Measure the tread depth at the center of the tread pattern. Take measurements at several points since uneven wear may occur.

Replace the tire if any of the measurements are lower than the service limit. Make sure the wheels are properly balanced when a new tire is replaced.

Have your KYMCO dealer replace any tire that has the following conditions: The tread wear limit indicator is exposed. A nail or other object has punctured the tire. The tire's sidewall shows cracking.

Excessive wear of tire tread patterns will result in reduced traction and affects overall safety.

Tire Specifications:

Front Tire Specifications	Rear Tire Specifications
120 / 70-R15	160 / 60-R15

Service Limits based on the tread depth:

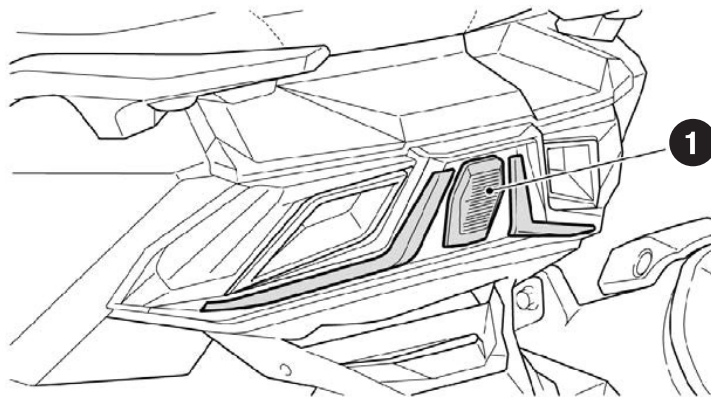
Front Tire	Rear Tire
0.0315in	0.0315in

CHECK THE BRAKE LIGHT

- Turn on the KEYLESS main switch power.
- Squeeze the front, then rear brake levers. Verify the brake light illuminates as each lever is squeezed.
- Check the Brake Light for discoloration or fracture.

Caution

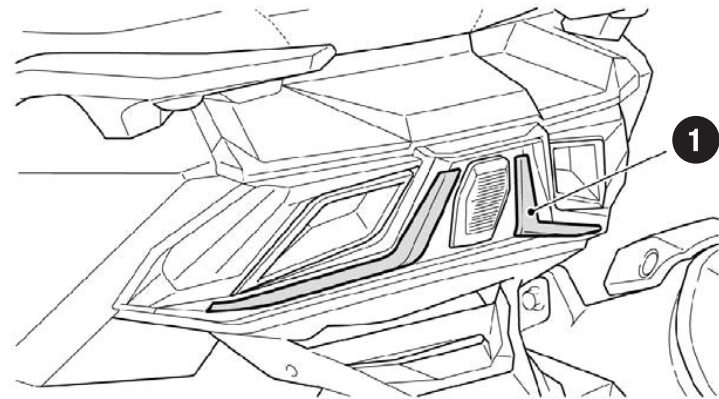
Press KEYLESS Main Switch to "ON" but Engine Stop Switch to "OFF".



1. Brake Light

CHECK THE TAILLIGHT

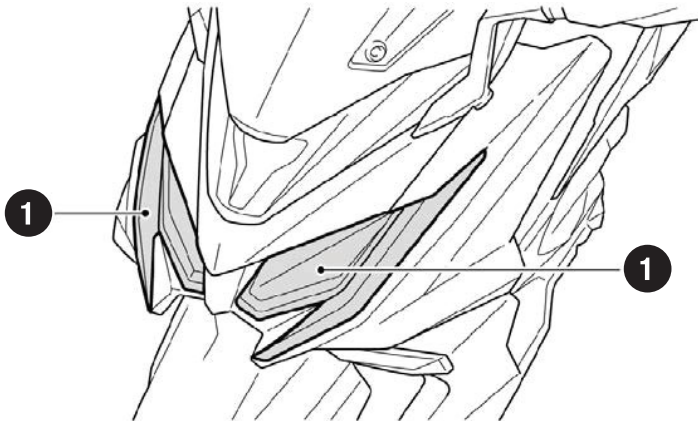
- Turn on the KEYLESS main switch power. Check if the Taillight goes on.
- Check the Taillight Lens for discoloration or fracture.



1. Taillight

CHECK THE HEADLIGHT

- Turn on the KEYLESS main switch power. Turn on the ignition of the engine.
- Check if the Headlight goes on.
- Check the Headlight Lens for discoloration or fracture.



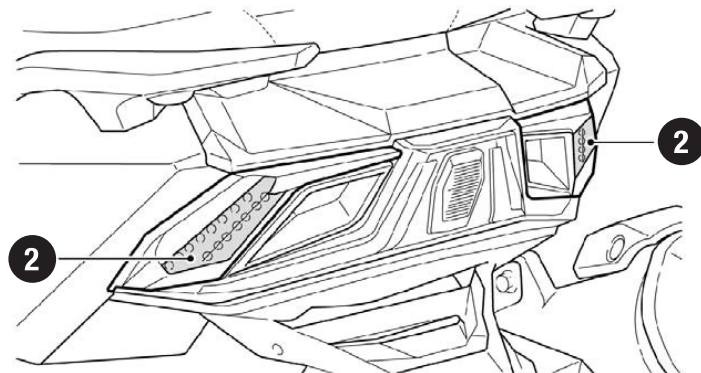
1. Headlight

CHECK THE TURN SIGNALS

- Turn on the KEYLESS main switch power.
- Operate the Turn Signal Switch to verify if each Turn Signal works. Check the Turn Signal lens for discoloration or fracture.



1. Front Turn Signals



2. Rear Turn Signals

CHECK THE FRONT/REAR SUSPENSIONS

Squeeze the front brake. Press forward and down on the handlebar with force several times to check if the front fork is operating and bouncing smoothly. If any damage is detected or if the front fork cannot operate smoothly, please contact a KYMCO dealer or a service center for inspection or replacement.



- Start the engine and turn on switches, check if Head Light, Taillight and Turn Signals function normally. Check for discoloration or fractures on all the light covers.
- Check the Dashboard for normal display.
- Check the Horn for proper function by setting the KEYLESS Main Switch in the “START” position and then pressing the “HORN” button switch.
- Check the Rear View Mirror for the proper angle.
- Sit on the Seat and check the rearview of the mirror; also check for any damage or discoloration.
- A specific torque value of 7.375 – 10.324 ft-lbs is regulated for the attachment of rearview mirrors. This value allows the mounting of rearview mirrors to be secured, and not rigid or loosening to maintain position.
- Check the License Plate for any damage; secure it tightly.
- Check for normal exhaust gas.
- Check the Muffler for fastener tightness, vibration, or noise.

INSPECT THE FINAL DRIVE BELT



- Lift the vehicle with the Main Center Stand, rotate the rear wheel manually, and visually inspect whether the drive belt has any scuff marks.
- If there are foreign objects attached to the belt, remove them.
- Make sure there is a gap between the belt and pulley on both sides.
- Secure the screws of the top/bottom cover of the belt.

Please visit a KYMCO dealer or a service station for any concern.

Caution

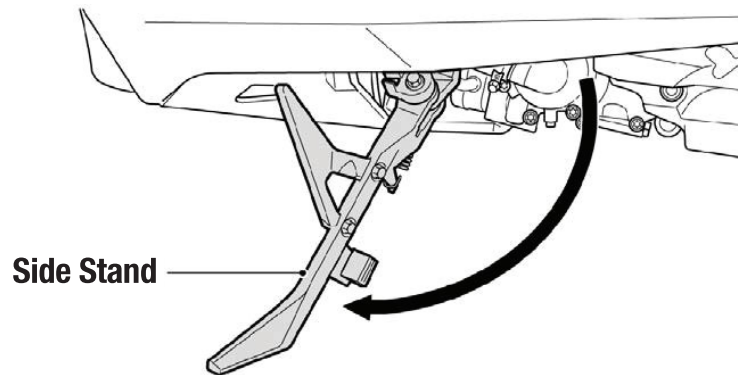
- Please do not adjust the belt and remove the relevant rear wheel mechanisms. They should be repaired by professionals.
- If there are cracks, deformities, or damage to the top/bottom covers, they should be repaired immediately for safety.

Warning

- Please do not ride the vehicle with the top / bottom belt covers removed.
- Do not insert any tools or objects into the belt covers when the engine is running, or the vehicle is moving.
- Do not spray or apply any oil or unknown solvents to the belt to prevent the degradation of the material.
- The passenger shall not use the top cover as the footrest. This may deform the cover and affect the belt.

SIDE STAND

The Side Stand is located on the left side of the scooter; push the Side Stand down or up with your foot. The engine cannot be started when the Side Stand is pushed down.



Warning

- The Side Stand Switch is a part of the ignition safety circuit; the rider must push the Side Stand up before riding the vehicle. If this function becomes inactive, go to a KYMCO dealer or qualified service station for repair.
- Do NOT ride the vehicle if the Side Stand fails to lower down or cannot maintain the pushed-up position; should the Side Stand touch the ground, the rider may lose control of the vehicle.

REGULAR CHECK UPS

To ensure safe riding, regularly checking your vehicle is necessary. Please go to a KYMCO dealer or service station for after sales service and maintenance.

Refer to the User Manual for Check Schedule and Check Items.

Regular checks are also required when the vehicle is left idle for a long of time.

Initial Check

Please perform the initial check of a new vehicle within 1 month from the date of purchase or at the mileage of 1,000km/600mi.

Precautions

If a cleaning, adjustment, or replacement is necessary based on the check result, please carry it out as required.

Caution

Take safety precautions while performing maintenance.

- Brace the vehicle with its main stand on a level location.
- Use the proper tools.
- Carry out preparations with the engine stopped.
- Engine parts and muffler are extremely hot after the engine stops, take care not to be burnt.

BATTERY

Check the Battery

No battery fluid replenishment is required.

Check the Battery Voltage

The Battery voltage shall exceed 12V when checked using a voltmeter. Remove the battery and fully recharge it if the voltage is too low.

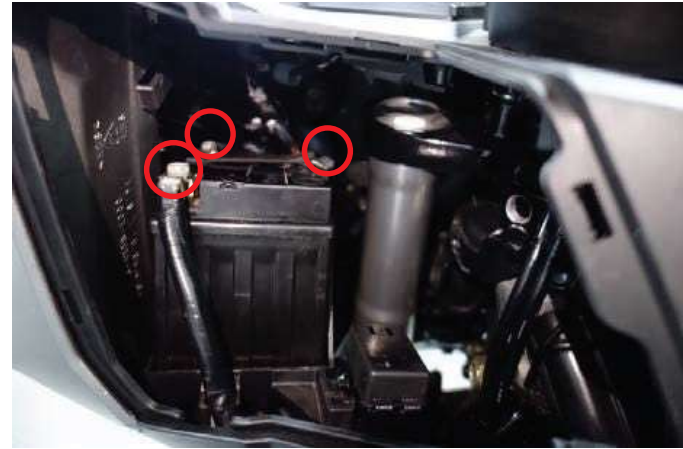
Method of Replacement

Disassembly of the battery cover

1. Remove the screws to detach the battery cover.



2. Remove the positive/negative pole screws from the battery.
3. Remove the Battery



Installation of the Battery

Install in the reverse sequence.

Warning

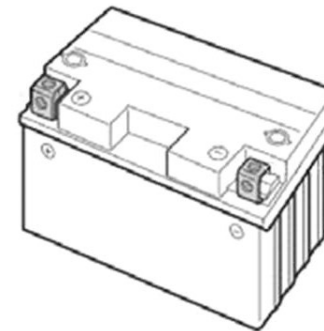
Tenons and grooves are provided on the outer covers. To prevent breaking the tenon by pulling or bending it at an acute angle, you need to be very careful when removing or installing the outer cover. If you are concerned about breaking the latch or are not confident with its operation, please go to a KYMCO dealer or a qualified service station.

Caution

- Please note that, before installing the battery cover, attach the positive pole cable to the fixing groove inside the cover. Adjust the cable hole position after replacing the cover, then lock the positive/negative terminals in place. Finally, tighten the battery cover.
- The battery tends to self-discharge when the vehicle sits unused for a long time. Remove the Battery from the vehicle and fully recharge it; then store it in a cool and well-ventilated place.
- Remove the negative cord from the battery if the vehicle is expected to sit unused for a long time.
- If a low battery voltage is displayed on the Dashboard; remove the battery and fully recharge it or go for service.
- If the battery is stored for more than 2 months, it shall be checked monthly and re-charged if necessary.
- When using a stored battery, fully recharge it before installing it.

Cleaning the Battery Poles

- For cleaning the battery poles, remove the battery fixing screw first.
- If the battery pole is corroded, remove the battery for cleaning.
- After cleaning, apply a thin layer of grease or Vaseline on the battery poles before installing the battery.



Caution

- Keep away from flames or any inflammables when removing/installing a battery. Batteries can emit explosive gases.
- For removal, turn the KEYLESS Main Switch to OFF position first. Followed by removing the negative (—) wire, and then the positive (+) wire. Connect the positive wire first when installing, then the negative.
- Fully tighten the fixing screws for each battery pole.

Precautions on using batteries:

- Battery Electrolyte contains sulfuric acid which is toxic and can severely burn the skin on contact. Do not let sulfuric acid contact your skin, eyes, or clothing. Wear goggles when working with or near batteries. If contact is made with sulfuric acid, take first aid measures as required:
- Skin contact: Rinse with plenty amount of clean water.
- Ingestion: Drink large amount of water or milk and seek medical care immediately.
- Eye contact: Rinse with clean water for 15 minutes and seek medical care immediately.
- Batteries will generate explosive hydrogen and shall be kept away from all inflammables (e.g. spark, flame, or lit cigarette).
- Provide sufficient ventilation if charged in an enclosed room.
- Store batteries in a location where children cannot access.
- The battery is located under the front cover. Remove the rear seat cushion and remove the seat cushion cover, and the battery will be exposed. For re-charging the battery: When battery power is about to deplete, immediately go to a dealer for re-charge. Keep in mind that the more personal electronic devices installed on the vehicle, the faster the battery power depletes.

FUSE

Fuse Replacement

The fuse box is located on the side of the battery. Open the fuse cover to get to the fuse.

- Turn the KEYLESS Main Switch off, and check for a blown Fuse.
- Only replace with a fuse of the same specifications.
- Identify the cause of a blown fuse before replacing it.

Fuse Specification

Main Fuse: 30A

Fuel Injection Parts: 10A

Controller: 12A

Lights: 10A

Seat/Hazard: 7.5A

Heater Grip/DC Socket: 5A

Fan Motor: 10A

ABS Module: 25A

Caution

- Only replace electrical devices (lights, meters) with ones with the same specified ratings.
- If using an inadequate fuse, it may be blown easily, or battery loading may become imbalanced.
- Avoid spraying strong water jets at the front of the vehicle while cleaning it.

Warning

- The use of a higher amp as a replacement is strictly prohibited, as the circuit may overload and burn out.
- The use of non-fuse or short-circuit methods as fuse replacement is strictly prohibited, as this may cause the circuit to burn out or cause fire to the vehicle.

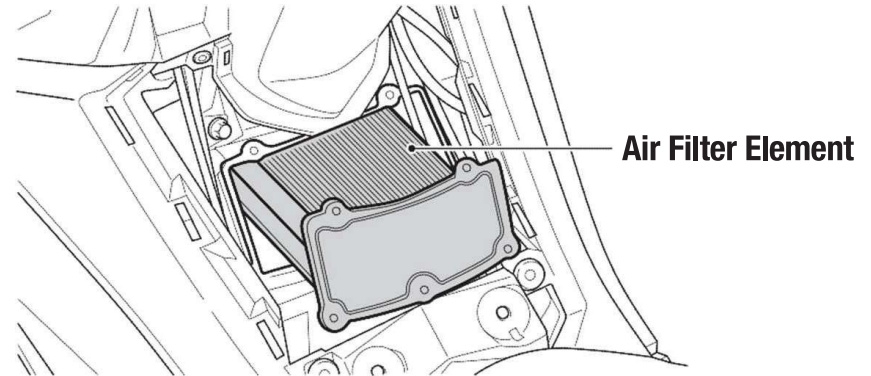
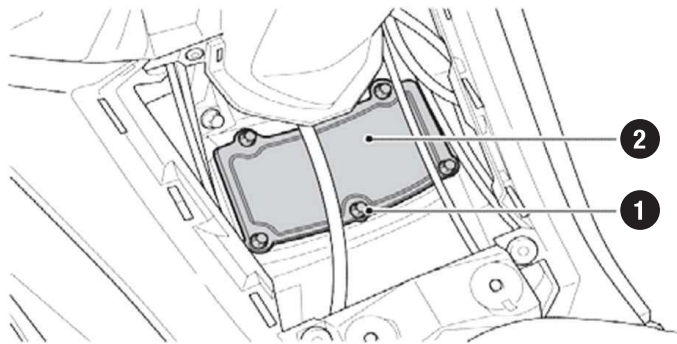
AIR FILTER

Replace the Air Filter Element as specified in the Maintenance Schedule.

Check and replace the Air Filter Element more frequently if the vehicle is used in dusty environments or damp areas.

Replace the Air Filter Element

1. Remove the outer covers of the vehicle.
2. Remove the Air Filter Cover.
3. Loosen the Air Filter Cover Fixing Screw.



4. Take out the Air Filter Element.
5. Replace a new Air Filter Element.

Precautions on replacing Filter Element:

- Make sure the Air Filter Element is positioned correctly in the case.
 - Do not start the engine when the Air Filter Element is not installed, or dirty air may enter the engine and cause abnormal wear.
 - Do not wet the Air Filter Element when cleaning the vehicle, or engine start may become difficult.
6. Install the Air Filter Cover and tighten the Fixing Screw.
 7. Re-install the outer covers of the vehicle.

COOLANT

Check the Coolant

To prevent problems while riding, check the level of coolant before riding the vehicle. Replace the coolant as specified in the Maintenance Schedule.

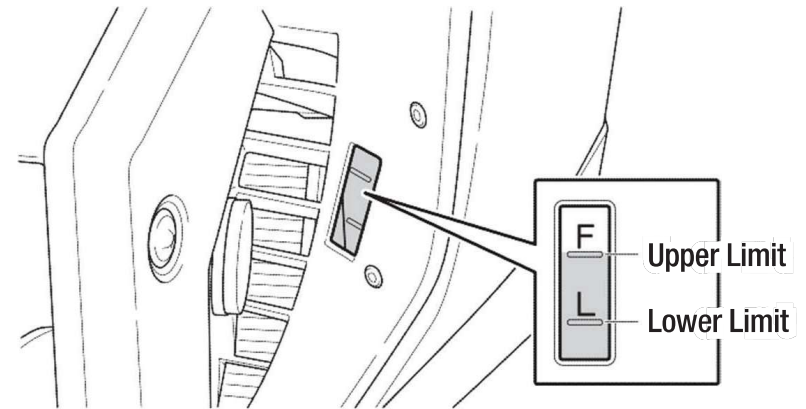
Check Level of Coolant

1. Park the vehicle on a flat surface and support it with the Main Center Stand.

Caution

- Temperature in the engine may cause false readings of the Coolant level. Check coolant level after the engine cools down.
- Inclined vehicle may cause false reading of the Coolant level.

2. Check the level of Coolant via the viewing window on the Coolant reservoir. Make sure the level is between "F" and "L" marks.



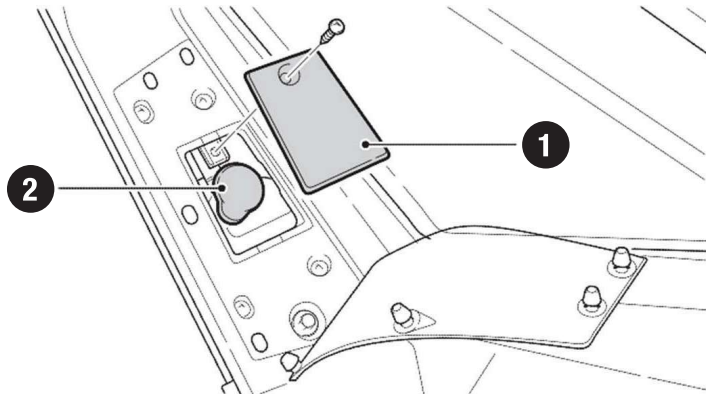
Caution

- Before riding the vehicle, check the radiator and piping for any leakage.
- Check the ground where the vehicle is parked for signs of leakage.
- Before riding the vehicle, check the front protection screen of the radiator for any foreign object. Foreign objects may reduce the cooling function or cause vehicle or engine damage in extreme cases.

Replenish the Coolant (Fill the reservoir of the Radiator Cap)

1. Stand the vehicle upright on flat ground using the Main Center Stand.
2. Remove Cover 1 and Coolant Reservoir Cap 2, replenish coolant to the Upper Limit. If level of coolant gets excessively low, an internal coolant leak may be present.

Go to a KYMCO Dealer or qualified service station for repair.



1: Protection Cover
2: Water Tank Cover

! Caution

- Coolant temperature is very high after riding, do not open the cap of radiator.
- Using poor-quality coolant may shorten the service life of the radiator. Only use coolant safe for aluminum.
- Replace coolant in the radiator (see maintenance schedule Pg.57)
- Add the proper amount of coolant to ensure performance of the cooling system.

! Warning

If the vehicle is being used in freezing or frozen environments, coolants with anti-freezing properties must be used to prevent damage to the coolant system due to freezing.

SPARK PLUG

Spark Plug Check and Adjustment

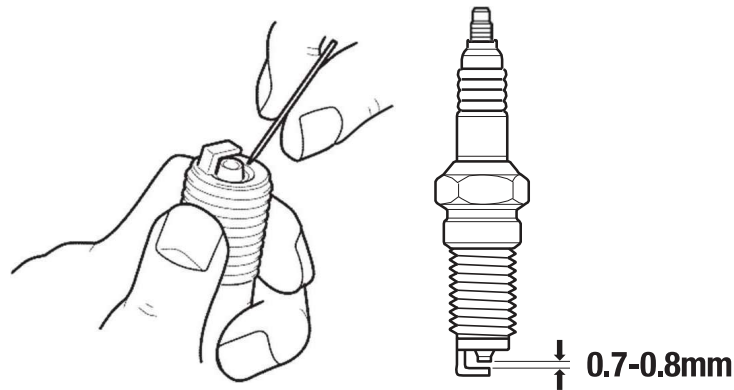
Dirty electrodes or excessive gaps can cause a weak spark.

Cleaning Method

A spark Plug Cleaning Tool is the best way to clean a spark plug. If a Spark Plug Cleaning Tool is not available, use a wire brush.

Adjustment

Normal Gap of Spark Plug is 0.0276-0.0315in. Do not use a Spark Plug other than the specified one.



Specified Spark Plug: (NGK) CR7E

Caution

- The engine is very hot after stopping, be careful not to get burnt.
- Tighten the plug by hand, followed by a Spark Plug Wrench.

Tightening Torque: 7.23-10.122 ft-lbs

CVT TRANSMISSION SYSTEM FILTER

Excessive dust accumulation in the CVT Transmission System may result in unsmooth vehicle operation; clean and replace the filter regularly.

Clean and replace the filter (see maintenance schedule).

Replace Filter:

1. Remove the side plate on the right.
2. Remove Fixing Bolts of Crankcase Right Cover.
3. Remove 2 Fixing Bolts of Filter.
4. Replace Filter Wool.

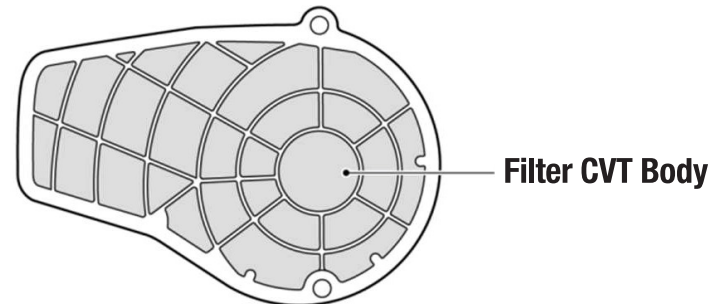


Install Method:

Reinstall in reverse order of the removal procedure.

Cleaning Method

1. Remove the side plate on the right.
2. Remove Fixing Bolts of Crankcase Right Cover.
3. Remove 2 Fixing Bolts of the CVT filter.
4. Clean the CVT Filter body with air-jet and clean out dirt from the Crankcase Right Cover.



User Precautions

- Do not remove the battery cable when the KEYLESS Main Switch is set to ON.
- Tighten torque: 0.723~1.446 ft-lbs. Tighten bolts using a maintenance tool; do not tighten it excessively or the bolt may break and cable may get loose, resulting in an accident.
- After installation, make sure that bolts will not loosen and wires will not interfere with the chassis, to prevent any potential danger.
- Only a trained service technician should repair muffler-related issues.

Caution

When riding or parking vehicle in humid environments (e.g. on a rainy day or washing vehicle), fog formation may occur temporarily inside the cover of the Dashboard and lights due to inside/outside temperature differences, which is not a quality issue. However, if large drops or accumulations of water appear inside the Dashboard and light cover, please consult a KYMCO dealer for service.



















In the event of the vehicle engine light is on, see KYMCO dealer or qualified service station.

Check the following items if engine does not start or the engine stops when riding the vehicle:

- Is the dashboard fuel level gauge near “E”
- Check for gasoline in the fuel tank. Replenish with 91-octane unleaded gasoline or better.
- Is the rider following the proper starting procedure
- Does any part appear broken or faulty
- Verify the engine shut-off switch is in the correct position.

SPECIFICATIONS

Item	Specifications	Item	Specifications
Engine Type	SBA1	Vehicle Weight (working mass)	239 kg
Displacement	550.4 c.c.	Minimum Revolving Radius	2700 mm
Cylinder diameter × Stroke	69*73.6	Fuel Tank Capacity	14±0.5 L
Compression Ratio	11.0+/-0.2	Rated Power	37.5kW @7500 rpm
Clutch	Wet Centrifugal Type	Rated Torque	52.0 Nm @6000 rpm
Total Oil Content	3.0L	Gear Shifting Method	CVT
Number of Cylinder	2	Fuel Type	91(R+M)/2 Unleaded Gasoline or better
Valves of Cylinder	4	Ignition Method	ECU Full Transistor Type
Valve Clearance	Intake : 0.175±0.02 mm Exhaust : 0.225±0.02 mm	Starting Method	Electric
Total Length	2190 mm	Front Tire	120/70- R15
Total Width	790 mm	Rear Tire	160/60-R15
Total Height	1480 mm	Spark Plug	NGK CR7E
Axle Base	1580 mm	Battery Capacity	12V 11.8Ah

		Keyless	TPMS
Manufactuer		Fame Technology Co., Ltd	Lihjoen Speed Meter Co., Ltd
CE	Report:		
FCC	In Procedure:		 2AMA5-LJ-39600
JRF	Receiver:	  201-17826	  201-170813
	Control:	  201-17827	
KCC	Receiver:	 MSIP-CMM-fms-38700-LGC6-00	 MSIP-CRM-LIJ-39660-LGC6-00
	Control:	 MSIP-CMM-fms-38703-LGC6-00	 MSIP-REM-LIJ-39650-LGC6-E00
NCC	Receiver:	 CCAL17LP0150T9	 CCAL17LP0150T9
	Control:	 CCAL17LP0140T9	 CCAL17LP0140T6
	NFC:	 CCAB17LP0540T0	
SRRC	Receiver:	CMIIT ID: 2017DJ4315	
	Control:	CMIIT ID: 2017DJ4313	