

Dear users:

Thank you very much for purchasing our CV3 Series product.

This Manual gives detailed instructions on how to operate, maintain and adjust the CV3 Series for prolonged durability and comfort.

This model of vehicles complies with EPA regulations on scooter emission control standards, therefore complying with environmental requirements in terms of low pollution, low noise, and low energy consumption. Although having exceptional quality, regular maintenance is still essential for keeping the product in giving optimal performances. In order to enjoy a safe and comfortable journey with your motorcycle, please read this manual thoroughly.

| | | |
|-----------|--|-----------|
| 1. | Precautions on Safe Driving | 1 |
| 2. | Owner Information | 8 |
| 3. | Parts Names | 14 |
| | Left View of Scooter | 14 |
| | Right View of Scooter | 15 |
| | Dashboard and Control Mechanism | 17 |
| | Left handlebar functions (front) | 19 |
| | Left Handlebar Switch (rear)..... | 19 |
| | Right handlebar functions (front) | 20 |
| | Right handlebar functions (rear)..... | 21 |
| | Center Multifunction Switches..... | 22 |
| 4. | Control Functions of Mechanism..... | 23 |
| | LCD Dashboard Function | 23 |
| | KEYLESS car key | 33 |
| | KEYLESS sensing distance | 35 |
| | KEYLESS Main Switch..... | 37 |
| | Steering Stem Lock | 41 |
| | KEYLESS mains switch functions | 42 |
| | USB-C charger functions and specification (TYPE-C) | 43 |
| | Anti-tilting Lock Switch (front suspension | |

| | |
|---|----|
| lock) | 44 |
| Engine Stop Switch..... | 47 |
| Left Handlebar Switch | 48 |
| Cruise Control Settings Button | 49 |
| Handlebar Heater Switch | 51 |
| Rear Brake Lever | 55 |
| Front Brake Lever..... | 56 |
| Parking Lever..... | 57 |
| Foot brake | 58 |
| Helmet Hook | 59 |
| Storage Box | 59 |
| Windshield | 63 |
| Rear View Mirror..... | 66 |
| 12V Power Socket: | 68 |
| USB-C Charging Outlet..... | 68 |
| Rider Backrest..... | 69 |
| Rear Seat | 69 |
| Main Stand | 71 |
| Fuel Tank Cap..... | 72 |
| TPMS, Electronic Tire Pressure Sensor.... | 74 |
| ABS (Anti-lock Braking System) | 80 |
| TCS (Traction Control System) | 83 |
| O2 Sensor..... | 84 |
| Muffler and Catalytic Converter..... | 85 |
| Exhaust Control System..... | 86 |

Contents

| | | |
|-----------|---|------------|
| 5. | Proper Riding Method | 87 |
| | Starting the Engine | 87 |
| | Proper Riding Method | 90 |
| | Brakes..... | 94 |
| | Proper Parking Method | 96 |
| | At full stop of the vehicle | 97 |
| | Parking the Vehicle | 97 |
| | A tumbled vehicle | 99 |
| 6. | Checks before Riding | 100 |
| | Engine Oil and Oil Filter..... | 100 |
| | Check/Replenish Engine Oil | 102 |
| | Check/Replenish the Fuel..... | 102 |
| | Check Steering Stem | 103 |
| | Check and adjust the front and rear brake components..... | 103 |
| | Inspection of front and rear brake oil | 105 |
| | Replenishing the front and rear brake oil | 105 |
| | Check Front and Rear Brake Lining..... | 107 |
| | Check Tires | 107 |
| | Check the Brake Light..... | 109 |
| | Check the Tail Light..... | 109 |
| | Check the Headlight | 110 |
| | Check Winkers | 111 |
| | Check Front/Rear Cushion..... | 112 |

| | | |
|-----------|--|------------|
| 7. | Inspect the outer transmission belt..... | 113 |
| | Side Stand | 115 |
| 7. | Simplified Maintenance and Repair.... | 116 |
| | Regular Checks | 116 |
| | Check Battery | 119 |
| | Fuse Replacement | 125 |
| | Air Filter | 128 |
| | CVT Transmission System Filter Wool.. | 130 |
| | Change Oil | 132 |
| | Spark Plug Check and Adjustment | 136 |
| | Check Coolant..... | 138 |
| | In case of Fault of Vehicle | 140 |
| 8. | Introduction and maintenance to the environmental mechanism | 141 |
| | Introduction to the exhaust emission control system | 141 |
| 9. | Specifications..... | 144 |
| | CV3 - SBA1EA | 144 |

Note

The actual product must prevail if any content in this manual differs from the actual product.

Precautions on Safe Driving

- ◆ Please note!
The structure of this vehicle is significantly different from 2-wheel vehicles. Without repeated practice and careful use, it may cause injury to oneself or others and vehicular damage, or even be life-threatening!
- ◆ It is recommended to test-ride the vehicle in non-traffic areas in order to better understand the characteristics of the vehicle.
- ◆ Peruse user manual and precautions.
- ◆ 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 and are extremely dangerous.
- ◆ The operation of the brake lever shall in no case be obstructed.
- ◆ Daily and regular checks are necessary.
- ◆ Visually check tire appearance for any foreign objects or unusual abrasion.
- ◆ Exhaust gas from the muffler contains carbon monoxide which is harmful to human body.
- ◆ Start the engine only in a well-ventilated location.
- ◆ Buckle up chin-belt when wearing a Helmet.
- ◆ Hold the Handlebar with both hands when riding. Do not ride by single hand for this is extremely dangerous.

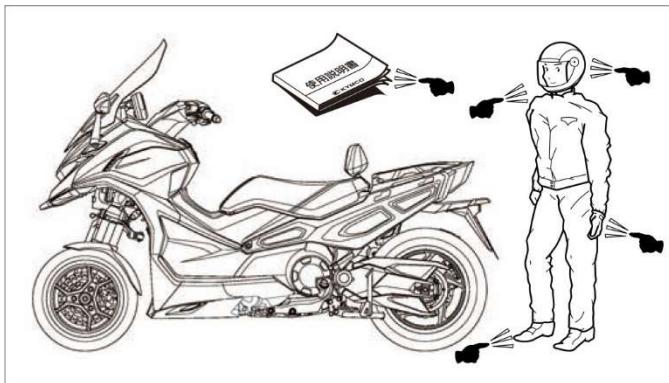
- ◆ Wearing flat shoes is safer.

1

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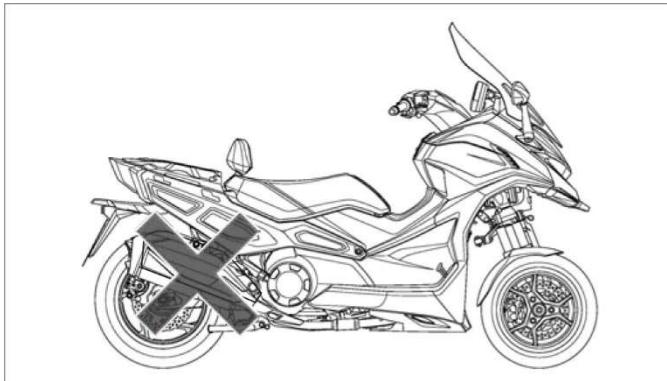
⚠ Warning

When the locking mechanism is released, be sure to place both feet on the ground to avoid risks of the vehicle tipping over.



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1



- ◆ Smoking is prohibited when replenishing fuel.

- ◆ The muffler is at a very high temperature after stopping the running engine, do not touch it.
- ◆ Avoid dry grasses or flammables when parking the motorcycle, for the prevention of fire risks.
- ◆ The muffler is at a very high temperature after stopping the engine; park the motorcycle with the Muffler facing a wall or a location free of pedestrian, for preventing any burn hazards.
- ◆ Metal or plastic parts of the scooter may reach a very high temperature after exposing to sunshine; care shall be taken not to touch such surfaces or a burn may occur.
- ◆ Avoid making sharp turns or one-handed driving.
- ◆ Abide by all traffic rules.

1

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

- ◆ Stop engine when filling with fuel.
- ◆ When mounting/dismounting the scooter, special care must be taken by the rear rider to prevent being burnt by the high-temp Exhaust Pipe.
- ◆ Operability of the handle varies in conditions with or without an extra load.
- ◆ Do not lead the vehicle and accelerate the throttle handle at the same time while the power is turned on or when the engine has started. This may easily cause accidental release of the locking mechanism.
- ◆ 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.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

1



- ◆ When riding the motorcycle, the rider must place both feet on the pedals; the rear rider shall put arms around the rider's waist and both feet on the rear pedals.
- ◆ Avoid overloading when carrying objects. Make sure that objects are fixed properly. Extra care must be taken for safe driving.
- ◆ Vehicle functionalities are related to its structure; arbitrary modification may deteriorate operability of vehicle, causing shortened service life and obstructed driver safety.
- ◆ Arbitrary modification of a vehicle is illegal and by law. Never make any modifications.
- ◆ Making modifications to your vehicle could void the warranty.
- ◆ It is strictly forbidden for people or unrelated objects to approach or touch the moving belt and front or rear wheels

to avoid danger.

- ◆ Natural mental relaxation and comfortable clothes are essentials to a safe driving.



- ◆ Abide by traffic rules, avoid anxiety, relax your mood, and pay attention to drive.
- ◆ Avoid wearing clothes that may impede driving safety when riding the scooter. (E.g., long skirt, flared trousers, etc.)
- ◆ The temperature of the Muffler is extremely high when the vehicle is running as well as within 30 minutes after stopping of driving; avoid contacting the vehicle with the body or skin to avoid burn injuries.
- ◆ Avoid dry grasses or flammables when parking the vehicle, for the prevention of fire risks.

⚠ Warning

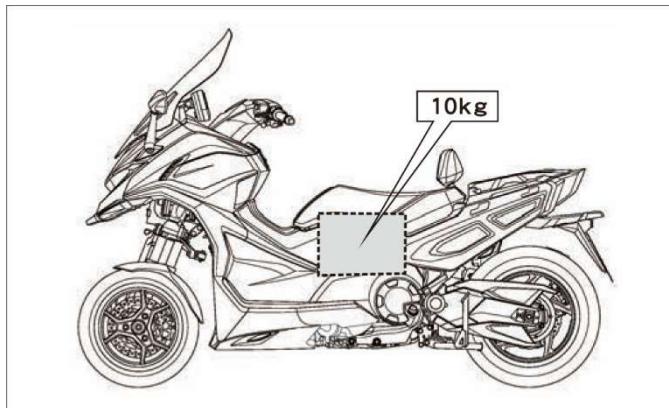
1

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Do not turn on the ignition and begin its related operations when the vehicle's main stand has not been erected, especially for children, the elderly, and persons unfamiliar with the characteristics of the vehicle. The owner of the vehicle is responsible for checking these relevant safety control measures.

10kg at most.

The Luggage Box has a capacity of holding no more than 10 kg.



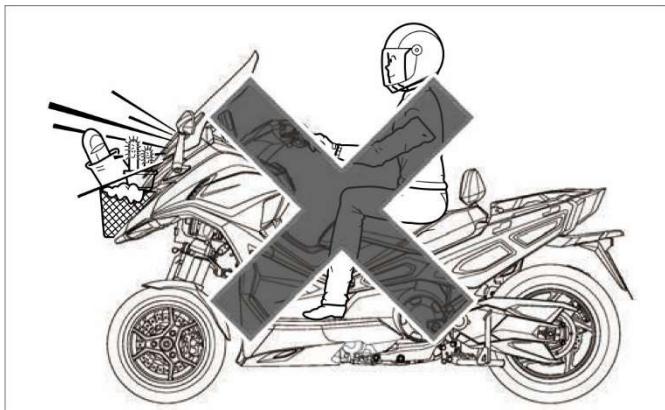
Do Not exceed the following load limits:

The maximum load of the storage box shall be limited to

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

1

It is forbidden to install a carrying basket or bracket on the front header. Carrying anything in front of the vehicle will surely block the headlight and significantly affect driving safety.



2

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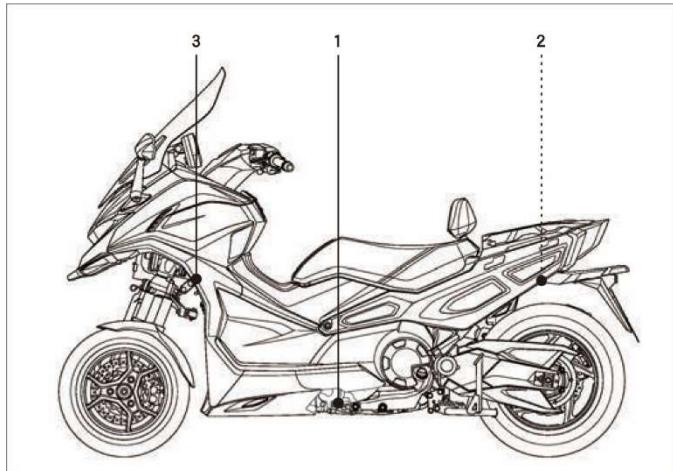
Owner Information

ID Number Record Field

Please note down 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 lost of vehicle.

ID Number Record Field

1: Engine number engraving 2: Frame number engraving
3: Aluminum nameplate

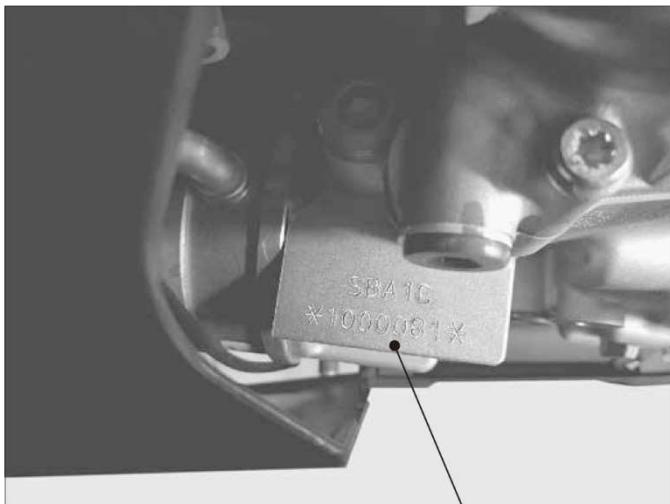


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2

Engine Number

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



Engine Number Imprint

2

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Frame Number

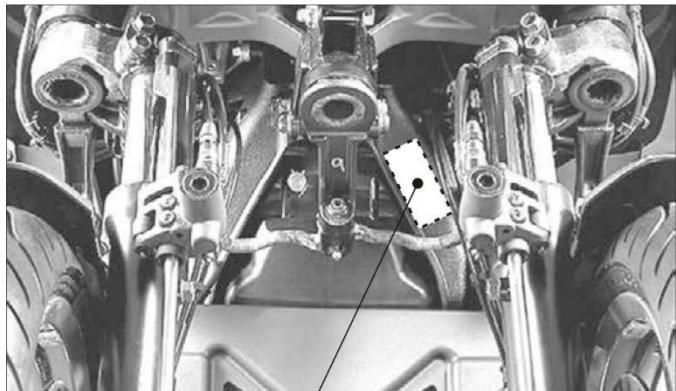
Engrave the number onto the frame indicated in the drawing. The Frame Number can be seen from lower-right upwards.



Frame Number Imprint

Aluminum Nameplate

Located on the bottom-left side of the front frame. The aluminum nameplate can be seen from the bottom looking up.

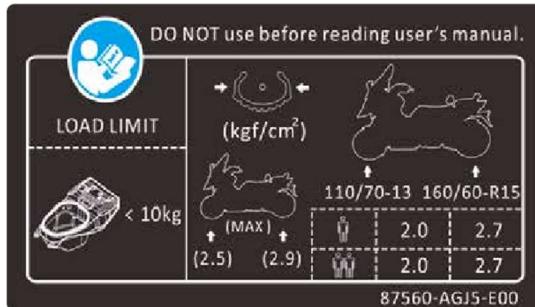


Aluminum Nameplate

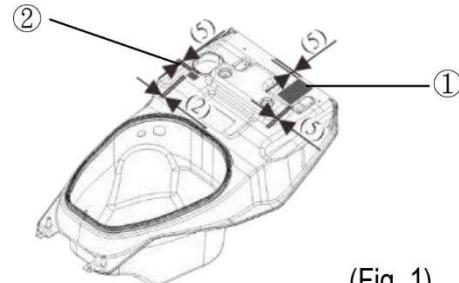
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2

Mark Drive Caution ①



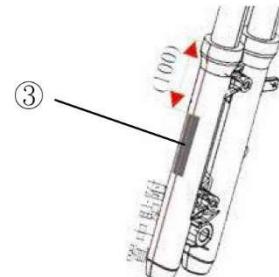
The mark drive caution and label fuel tank of the motorcycle is tagged on the backside of the box, luggage of the scooter (per Fig. 1).



Label Fuel Tank ②



Stripe Logo KALS ③



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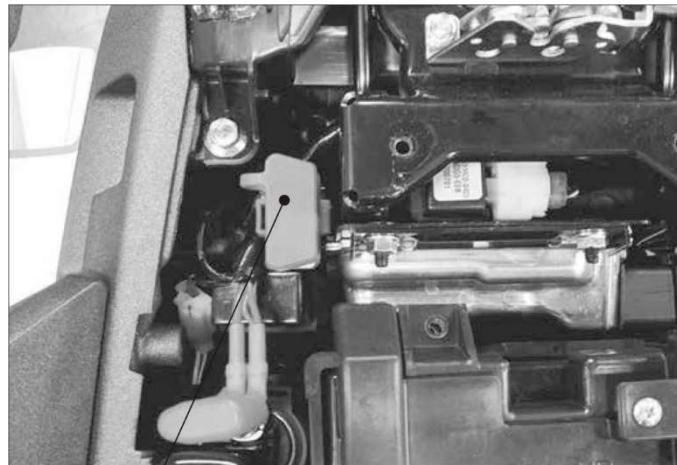
Collection of motorcycle data record

The ECU of this model collects and records the information on motorcycle to assist in fault diagnosis and troubleshooting.

To acquire the information, it is required to connect the KYMCO diagnosis tool to the diagnosis connector of the motorcycle (e.g. maintenance check or repair).

The sensor and recorded information depend on the Kymco model. However, the main information available is as follows:

1. Information on motorcycle status and engine performance
2. Information on motorcycle injection and emission



Diagnosis connector

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

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

2

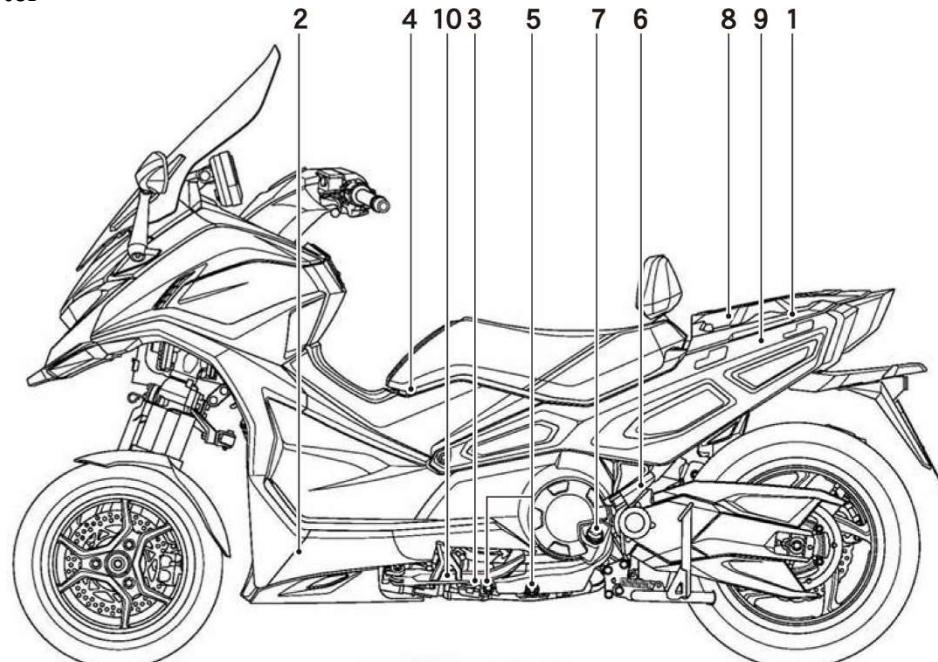
motorcycle or owner.

3

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Parts Names

Left View of Scooter



1. Battery

2. Coolant Level Viewing Window

3. Engine Oil Filter

4. Helmet hook

5. Engine Oil Drain Cock

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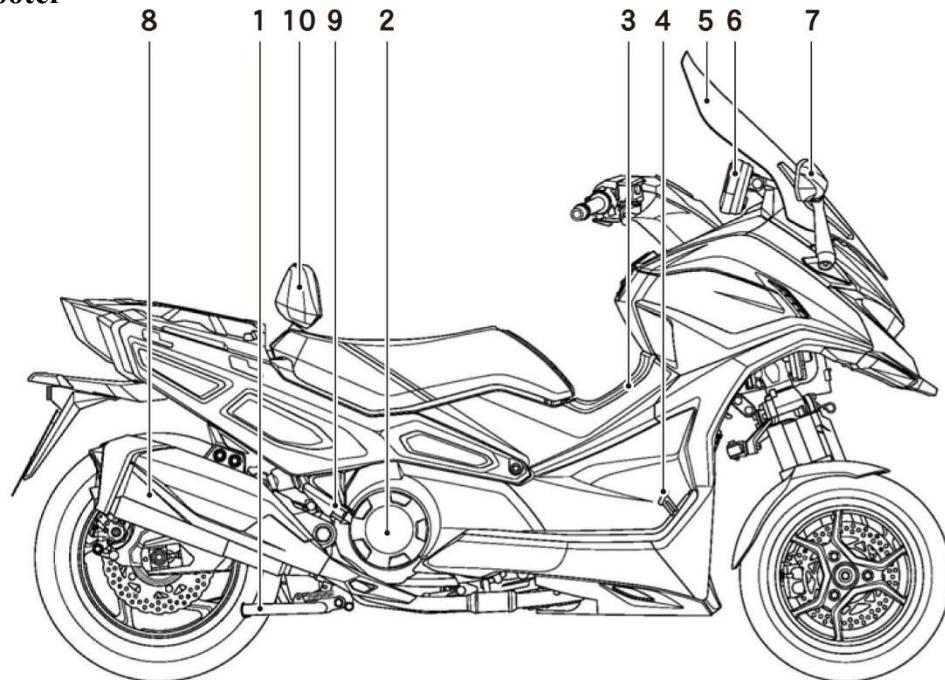
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6. Left Foot Bar 7. Oil Level Guide

8. Rear Seat

9. Left-rear Handlebar 10. Side Stand

Right View of Scooter



3

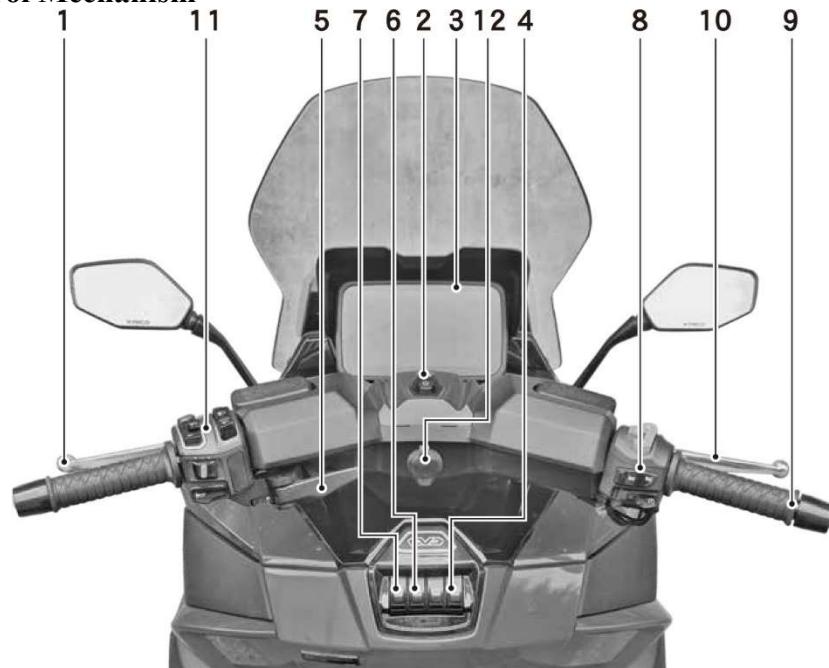
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| | | | | |
|---------------|-----------------|------------------------|-------------------|---------------|
| 1. Main Stand | 2. Engine Cover | 3. Air Cleaner Element | 4. Foot Brake | 5. Windshield |
| 6. Dashboard | 7. Back Mirror | 8. Exhaust Pipe Cover | 9. Right Foot Bar | 10. Backrest |

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

3

Dashboard and Control Mechanism



1. Rear brake lever
2. KEYLESS Main Switch
3. TFT Meter
4. LOCK Switch
5. Parking Brake Arm
6. Seat Compartment Switch

3

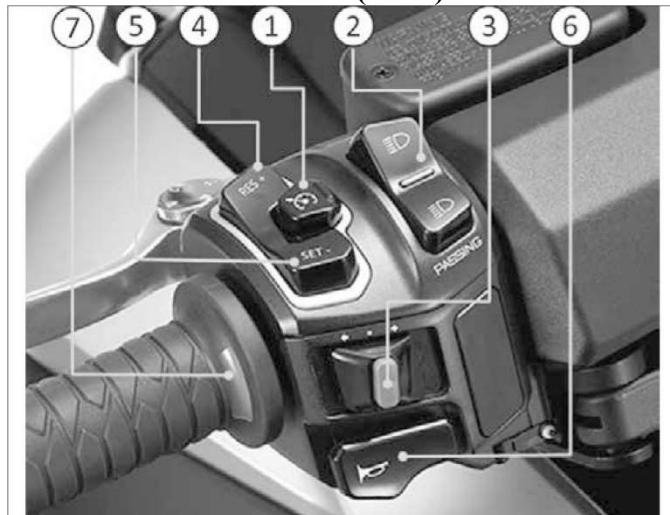
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| | | | | | |
|----------------------------------|------------------------------|-----------------------|-----------------------|------------------------------|-------------------|
| 7. Dashboard Selection Switch | 8. Right Handlebar Switch | 9. Throttle Handle | 10. Front brake lever | 11. Left Handlebar Switch | 12. USB-C Charger |
|----------------------------------|------------------------------|-----------------------|-----------------------|------------------------------|-------------------|

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

3

Left handlebar functions (front)



- 1: Cruise setting key
- 2: High/Low Beam Switch/Flasher PASSING key
- 3: Winker Switch
- 4: Reset/accelerate button (+)
- 5: Set/decelerate button (-)
- 6: Horn Switch
- 7: Handlebar Heater / Indicator

Left Handlebar Switch (rear)



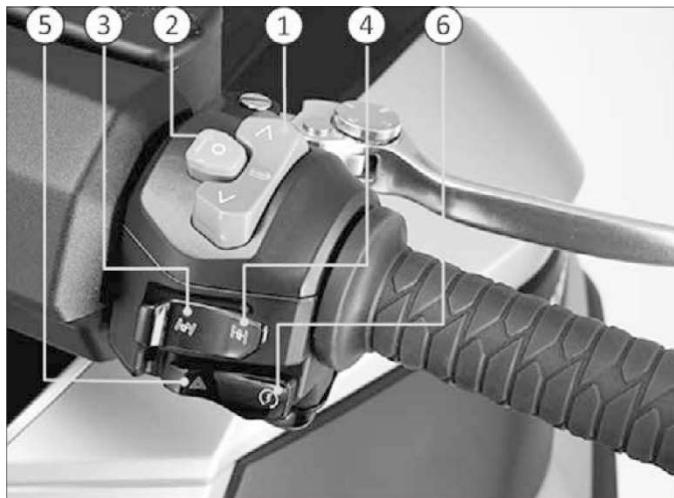
- 1: Power/Rain/TCS Mode Switch
- 2: Handlebar Heating Setting Button

3

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

6: Engine Starting Switch

Right handlebar functions (front)



1: Up / Down Button

2: Confirm / Switch Button

3: Release Front Suspension Lock

4: Set Front Suspension Lock

5: Park Alert Switch

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

3

Right handlebar functions (rear)

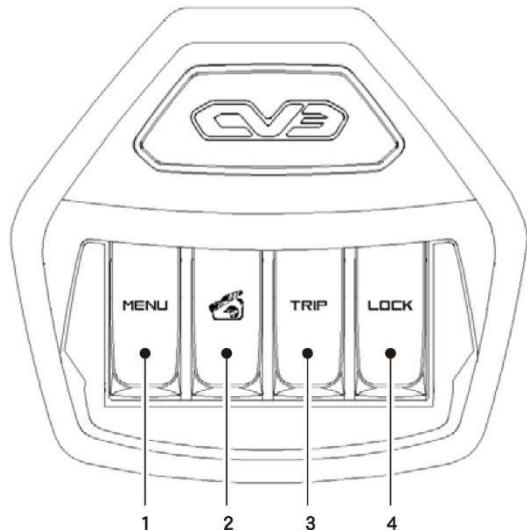


- 1: Release Engine Stop Switch
- 2: Engine Stop Switch

3

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Center Multifunction Switches



- 1: MENU (Dashboard Menu)
Switch between main screen and sub-screen selection menu.
- 2:  Storage Box:
Storage Box Switch.
- 3: TRIP (Mileage mode)
Switch among ODO, TRIP A, TRIP B, OIL SERVICE and BELT SERVICE.
- 4: LOCK (Steering Stem Lock)
Used to lock the steering stem.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

4

Control Functions of Mechanism

LCD Dashboard Function



| | | | | | |
|---------------------------------------|-------------------------|--------------------------------------|-----------------------------------|---------------------------|---------------------------------|
| 1. Left Winker | 2. Fuel Gauge | 3. High Beam | 4. Oil Pressure Warning Indicator | 5. Engine detection light | 6. Cruise Control Switch |
| 7. Oil/Belt Service Light | 8. Cruise Setting Light | 9. Right Winker | 10. Clock | 11. Water Thermometer | 12. Seat Open Warning Indicator |
| 13. Tire Pressure Detection Indicator | 14. Parking Light | 15. Instant Fuel Consumption Display | 16. ABS Indicator | 17. Speedometer | 18. Odometer |

4

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

| | | | | | |
|----------------|---------------------|----------------------------------|--------------------------------|--|--------------------------|
| 19. Tachometer | 20. Power/Rain mode | 21. Traction Anti-skid Indicator | 22. Handlebar Heater Indicator | 23. Locking/Unlocking for Anti-tilting | 24. CCS Cruise Indicator |
|----------------|---------------------|----------------------------------|--------------------------------|--|--------------------------|

1. Left Winker

“Settings for Cruise Control”.

Direction button for left turn, indicator light will flash when turned on; press middle button to turn it off.

2. Fuel Gauge:

The fuel gauge is divided into five sections.

3. High Beam

When this indicator is lit, it means the high beam is on.

4. Oil Pressure Warning Indicator

The Oil Pressure Warning Indicator lights up when KEYLESS Main Switch is activated.

- The Oil Pressure Warning indicator turns go off when the engine is started.
- The Oil Pressure Warning Indicator will light up if the oil pressure is lower than normal action when the engine rotates. This denotes a system anomaly; you need to go to a KYMCO dealer for a check-up.

5. Engine detection light

For a normal vehicle, after KEY ON, the engine inspection indicator will light up; after the engine has started, it will turn off automatically. For a normal vehicle, after KEY ON, the engine indicator will light up; after the engine has started, it will turn off automatically. If the indicator is persistently lit, it means there are problems in the vehicle system. Please visit the service station for inspection and maintenance.

6. Cruise Control

This function is the settings for cruise control, please refer to

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

7. Oil/Belt Service Light

OIL → When the vehicle reaches 5,000 km, the indicator on the right side (OIL SERVICE) will stay lit, indicating that oil needs to be checked.

Belt → When the vehicle reaches 20,000 km, the indicator on the right side (OIL SERVICE) will stay lit, indicating that CVT belt needs to be replaced.

Caution

- Oil Replacement indicator will only light up after running 5000km, therefore it will not light up for the first oil replacement at 1000km. However, a Zero adjustment is still necessary after oil replacement at 300km so that the indicator can act correctly for a subsequent indication.
- When the accumulated mileage reaches 5000km, the oil change indicator (OIL SERVICE) will light up. Switch to OIL mode and reset the accumulated mileage to 0. The oil change indicator (OIL SERVICE) will turn off, and the mileage will begin recounting from 0.
- When the accumulated mileage reaches 20,000 km, the belt change indicator (OIL SERVICE) will light up. To reset, switch to Belt mode and reset the accumulated mileage to 0. The belt change indicator (OIL SERVICE) will turn off, and the mileage will begin recounting from 0.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

4

8. Settings button :

This is the settings button for cruise control.

9. Right blinker :

Same as item no. 1.

10. Clock :

The clock is located at the top center of the screen and uses a 24-hour format. To adjust it, make sure you are in ODO mode. Press and hold the down button for about 3 seconds to enter the setting mode. Press the up button to switch between hours and minutes, which will flash and cycle. Short-press the down button to adjust the value. After setting, press and hold the down button for 3 seconds to exit, or wait about 5 seconds without any operation to leave the setting mode.

11. Water temperature warning indicator :

When riding, if the water temperature reaches H (high temperature), it means the water temperature is faulty. 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 shop for inspection or repairs immediately. The user should take extra care, riding forcibly when water temperature is at H (high temperature) may cause engine failures.

12. Seat open warning indicator :

When this light is lit, the seat has been opened.

13. 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.

14. Parking light :

When this light is lit, the parking is locked.

15. Instant/Average Fuel Consumption Display:

Instant fuel consumption (INSTANT) is shown on the main screen, and average fuel consumption (AVE) is shown on the sub-screen.

- There are two fuel consumption unit options: km/L and L/100km.
- Instant fuel consumption (INSTANT) display: The vehicle speed must be greater than 10 km/h for it to display.

Average fuel consumption (AVE) display:

- It is shown on the sub-screen and can only be displayed in TRIP A mode.
- TRIP A mileage is the basis for calculating average fuel consumption.
- For safety reasons, average fuel consumption can only be checked after the vehicle has stopped.

Caution

- 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 behavior.
- During idling, when there is no mileage accumulation, and when the speed is less than 10 km/h or when decelerating while riding, "instant fuel consumption" will display as "--".
- "Average fuel consumption" updates its display value approximately

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

every 8–10 seconds, while "instant fuel consumption" updates every 2–4 seconds.

- When TRIP A mileage reaches (999.9~0) and is reset, "average fuel consumption" does not reset and continues to calculate.
- When TRIP A is manually reset, the average fuel consumption will also reset and recalculate.

16. ABS indicator

The light should be turned off during travelling, indicating the ABS braking system is in operation. If the light stays lit during travelling, and cannot be resolved, please visit the dealer shop for repairs.

Caution

If ABS Indicator stays lighting up when vehicle speed is $\geq 6\text{km/h}$, it indicates the ABS system is faulty. Please go to a local KYMCO dealer for check-up immediately.

17. Speedometer:

The unit, either km/h or mile, must be switched in the sub-screen.

When switching the setting, all units used in the dashboard will be switched simultaneously.

18. Odometer:

Records the total accumulated mileage travelled.

19. Tachometer:

Tachometer: Indicates engine speed in rpm; each scale

multiplied by 1000rpm.



20. Power/Rain/TCS Mode Switch:

The MODE button is located among the left handlebar switches, and can be switched between power/rain/TCS modes depending on the driver's need.



Mode Indicator: When travelling normally, the diagram will read

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

POWER MODE. Press the MODE button on the left handlebar, the diagram will change to RAIN MODE, indicating a switch to rain mode.

TCS function switch as follows:

Power + TCS ON (Amber light)

Rain + TCS ON (Amber light)

Power + TCS OFF (Green light)



After cruise control is set, the current set speed will be displayed. It will not be displayed after cruise control is canceled. Please refer to "Setting cruise control" item instruction.

21. Tire pressure inspection receiver:

When power is turned on, it will receive the tire pressure status signals from the front/rear wheels. (The unit can be set from the sub-screen, between $\text{kg}/\text{cm}^2 \rightarrow \text{bar} \rightarrow \text{psi} \rightarrow \text{kpa}$.)

22. Heating handlebar:

Refer to "Heating the Handlebar" item instruction.

23. Front Suspension Lock:

Located on the right handlebar switches, when the front suspension lock is pressed, a green light on the dashboard will stay lit. Press the release button beside it to release the lock, then the green light will flash. The amber light will flash when anomaly is detected.

24. CSS Cruise Setting:

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Dashboard angle adjustment:

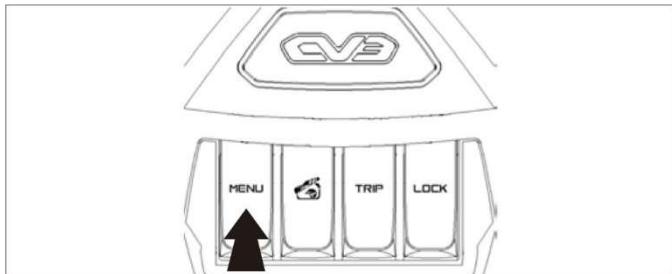
The dashboard has a 10-degree adjustable angle, the user may adjust it accordingly.



- When adjusting the dashboard, do not make adjustments forcibly to avoid damaging the adjustment mechanism.

LED dashboard – sub-screen

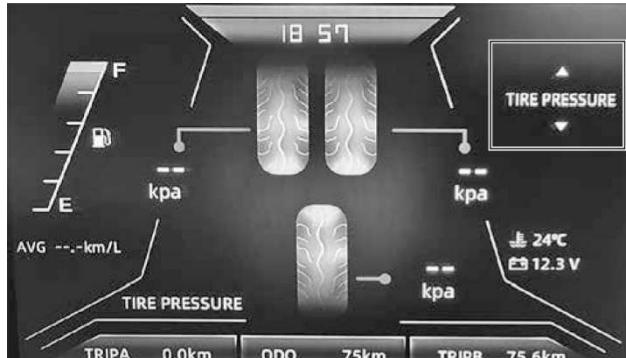
Press the “MENU” button in the center multifunction switches to enter the sub-screen selection menu, press again to return to the main screen.



⚠ Caution

- In order to prevent accidents, do not perform adjustment when riding the vehicle.
- You must park in a safe location before adjusting the instrument settings.
- When releasing the front suspension lock, please ensure that the main stand has been erected or the personnel on the vehicle places both feet on the ground for preparation to avoid the vehicle from tipping over due to slow reaction.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.



Function select

Short-press the “ \nwarrow ” key on the right handlebar switch to select function.

TIRE PRESSURE → CONSUMPTION → ODO → TEMP

| | |
|--|-------------------------------------|
| | (\nwarrow) Button → Up Button |
| | (\nwarrow) Button → Down Button |
| | (O) Button → Enter Button |

Press the “ \nwarrow ” button to enter the option and use the “ \nwarrow ” button to select content. Short-press the "O" button to exit.

TIRE PRESSURE : kgf/cm² → bar → psi → kpa

CONSUMPTION : km/L → L/100km

ODO : km → mile TEMP : °C → °F

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Trip mode switching and reset



Press the "TRIP" button on the central multifunction switch to switch trip modes on the main screen.

Switch among the following functions: ODO, TRIP A, TRIP B, OIL SERVICE and BELT SERVICE.

Short-press the TRIP button to select an item, then press and hold the "O" button to reset the selected option.



Caution

For safety reasons, the "MENU" button cannot be used while driving. It can only be operated after the vehicle has stopped. If the vehicle starts moving, the display will automatically return to the main screen.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

4

dealer to provide inspection or replacement services.

KEYLESS car key



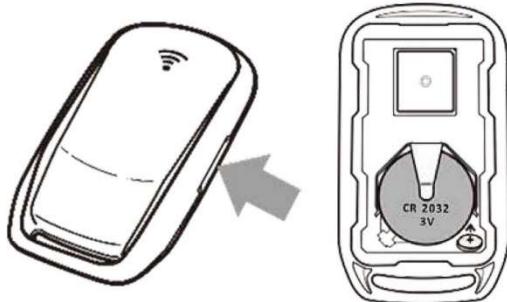
The KEYLESS is the hi-tech electronic main switch that does not need a key (per the figure above). Each vehicle is equipped with 2 sets of remote controllers and they should be preserved carefully. If the wireless key is lost, then you will not be able to open the KEYLESS main switch. For this reason,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

⚠ Warning

If both KEYLESS controllers are lost or damaged, please contact your

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Replacing the wireless key battery



Use appropriate tools for opening
Battery Model for Remote Control: 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 keyless car key.

- If both sets of keyless car keys are lost or damaged, please visit the dealer shop for relevant inspections or replacements.
- When the keyless 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 the radio waves will affect these medical devices.
- Do not expose the keyless car key to strong radio waves, or it may affect its functionality.
- Do not let the keyless car key come into contact with metal objects or coverings, or it may affect its functionality.
- The storage environment of the keyless car 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 damages:
- Do not place or store the keyless car key inside the storage box, it may be damaged due to vibrations of road surfaces or overheating.
- Do not allow the keyless car key to drop, bend, or expose to strong impact.
- Do not immerse the keyless car key in water or other liquids.
- Do not place heavy objects or apply excessive force onto the

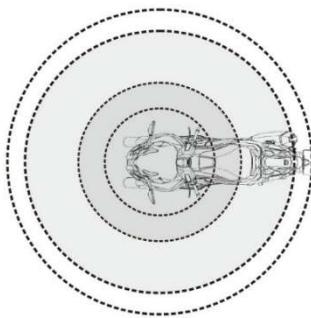
Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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keyless car key.

- Do not expose the keyless car key to direct sunlight, high temperature or high humidity.
- Do not polish or attempt to alter the keyless car key.
- Keep the keyless car key away from strong magnetic fields or magnetic objects such as key rings, TVs, and computers.

KEYLESS sensing distance



1. Remote sensing antenna (single open space):

The best sensing distance is within 1.5m; sensing is not possible past 3.5 m.

2. Short-range sensing antenna (single open space):

Can only be sensed when in close proximity to the sensing symbol.

- The best sensing distance is 1.5 meter, 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 keyless car key with you.

Short-range sensor

If the keyless car key is out of power and is unable to open the lock, the short-range sensor can be used to unlock.

Place the keyless car key on the right side of the center switch set, the short-range sensor symbol.

 **Caution**

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.



Short-range Sensor Symbol

⚠ Caution

- ◆ As the battery power of the keyless car key diminishes, it will affect the remote sensing distance.
- ◆ When replacing the battery, please visit a KYMCO dealer for inspection, to avoid inappropriate operations which may damage the functionality of the wireless key.
- ◆ The sensing distance is for reference only, and the KEYLESS button is still required to start the power.
- ◆ The keyless car key uses radio wave technologies, the range of

operation will be affected by surrounding environmental factors. If the keyless car key is placed in the storage box or front storage box, it may affect the communication between the keyless car key and the vehicle, leading to poor sensing.

- ◆ If the keyless car 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 keyless car key within the short-range antenna detection range near the right side of the switch set, press the main switch button for 1 short beep sounds to unlock and turn on power.
- ◆ Under power-on state, when the keyless car key leaves the short-range sensor location, if the vehicle is to be powered-off, it will make 10 warning beeps as reminder. Press the main switch button again to turn off.
- ◆ The keyless key car should be carried with you at all times. Do not place it in the storage box or on the vehicle.
- ◆ Take caution when the keyless car key enters operable range, as any person without the keyless car key but within sensing range may start the engine and ride the vehicle away.
- ◆ When the keyless car key is not within sensing distance, the vehicle may not be started.
- ◆ When the keyless car key leaves the sensing distance, there can still be instances of power consumption. When the user is unable to operate the KEYLESS main switch, the battery in the keyless car key should be replaced as soon as possible.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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KEYLESS Main Switch



KEYLESS Main Switch

KEYLESS Controller Theft Prevention 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.

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.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Caution

- Under engine non-ignition state, when the keyless car key leaves the sensing distance, the system will make a beep sound after 30 sec and turn-off.
- When travelling, when the keyless car key leaves the sensing distance, the engine will not shut down. It needs to be turned off manually in idle state.
- When the keyless car key is out of power or there is interference in the environment, leading to the ability to lock the vehicle, the short-range sensor can be used.
- It is strongly recommended that the user shall use Remote Sensing (Locking) mode to activate the Theft 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 (locking)
Place the back of the keyless car key near the right-side circular symbol of the center switch set and press the KEYLESS main switch button. There will be a long beep sound, and this will complete the locking action.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Short-range - Locking

Place the back of the keyless car key near the right-side circular symbol of the center switch set and press the KEYLESS main switch button. There will be a long beep sound, and this will complete the locking action.

Short-range - Unlocking

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



4

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

 **Caution**

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

Steering Stem Lock

To further prevent theft, the steering stem should be locked when parking the vehicle.

Vehicle locking method:

Under the power-off state, turn the steering stem completely to the left, long-press the “LOCK” button for 2 sec, a long beep sound will indicate successful locking.



Steering stem unlocking method:

Long-press the KEYLESS 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 beep in 2 cycles for unsuccessful lock. Please confirm that the steering rod is completely turned to the left and try locking again.
- The system will make 4 short beep in 2 cycles for unsuccessful unlocking. Please confirm that the steering rod is completely turned to the left and try unlocking again.
- If the keyless car key is out of power, it needs to be operated through the short-range method.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

- The levelness and safety of the parking location needs to be evaluated when locking and parking the vehicle, and lock the hand brake for safety.
- After locking the steering lever, confirm that the steering lever has been securely locked before leaving the vehicle.
- Do not park your scooter at locations where traffic safety may be obstructed.
- 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 keyless car key should be free of humidity and high temperature.
- As the battery power of the keyless car key diminishes, it will affect the remote sensing distance.
- When replacing the wireless key's battery, please visit a KYMCO dealer for inspection, to avoid inappropriate operations which may damage the functionality of the wireless key.

KEYLESS main switch functions

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



⚠ Caution

- Under any screen state, the screen will return to the main page when the vehicle is powered-off and turned back on.
- When the unlocking of the steering stem is unsuccessful,

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

please confirm that the steering stem is turned completely to the left, and try unlocking again.

| | |
|--|------------|
| | 9.0V / 2A |
| | 12V / 1.5A |

USB-C charger functions and specification (TYPE-C)

| Item | Specifications |
|-------------------------------------|--|
| Activation voltage | DC9~16V |
| Activation temperature | -15°C~80°C |
| Outlet type | TYPE C |
| Overheating protection | When the IC operation temperature is overheated, it will enable the overheating protection and cut off the output. Once the temperature drops to normal, the output will be resumed. |
| Overload (short circuit) protection | When the output is overloaded (short circuit), the output will be stopped (cut off). |

| Item | Output voltage / current |
|--------------|--------------------------|
| General mode | 5±0.5V/3A |
| QC3.0 mode | 3.6~5.0V / 3A |
| | 5.2~9.0V / 2A |
| | 9.2~12V / 1.5A |
| PD mode | 5.0V / 3A |

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.



⚠ Warning

- ◆ Please use the charging mode supported by the mobile phone charging cable to charge the device. When using an unsupported mode, only standard charging can be used. Avoid charging when the vehicle is not started, as this will drain the battery and prevent the engine from starting.
- ◆ Please avoid plugging in and using during rainy weather, and always cover the waterproof and dustproof cap after use.
- ◆ Operating temperature range: -15°C~+80°C
- ◆ Non-operating temperature range: -40°C~+90°C

⚠ Caution

- ◆ Suggest using the original power cable for charging. If the 3rd party power cable is used, the user might not be able to use the USB charger for charging, "possibly" due to the significant voltage drop.
- ◆ To activate QC 3.0 fast charging mode, the output voltage must reach 12V, and the input voltage must be at least DC 13.5V (the vehicle must be started).
- ◆ It is recommended to use devices with a current of 1A or below for charging.
- ◆ If the USB output reaches its maximum load, it may cause the USB

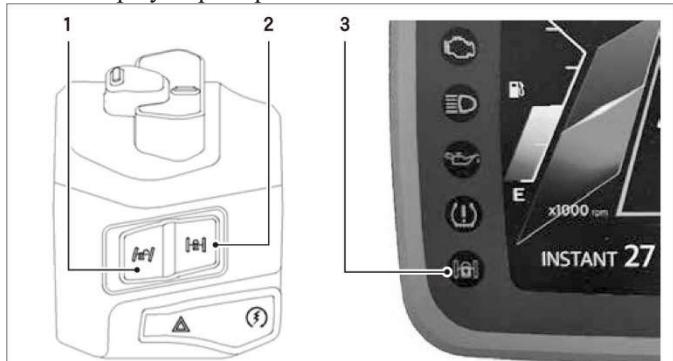
to overheat, triggering overheating protection and cutting off output. Wait for the USB to cool down before resuming charging.

Anti-tilting Lock Switch (front suspension lock)

1. When starting the Front Suspension Lock function, it will trigger the Front Suspension Connecting Rod and the Front Shock Absorber to carry out the locking. Such function helps the rider keep the motorcycle in the upright position when stopping or parking the vehicle.
2. When pressing this switch, the motorcycle will be maintained at the current vehicle angle.

Front Suspension Unlock / Front Suspension Lock:

Screen displays a prompt.



1: Front suspension unlocked

2: Front suspension locked

3: Front suspension lock status display

1. When the KEYLESS main switch is turned on, if it is unlocked, the indicator will flash; the indicator will stay lit when locked.
2. When starting the vehicle, if the throttle opening is greater than the unlocking threshold, it will automatically unlock. The lock button will be inactive while riding, and can only be manually locked when the speed is lower than the locking threshold.
3. When pressing the Lock Switch, the Front Suspension Lock warning screen will constantly light up in white and the Buzzer will also sound once.
4. When pressing the Unlock Switch, the Front Suspension Lock warning screen will flicker in white and the Buzzer will also sound twice.

⚠ Caution

- Idle lock conditions: Engine speed < 2000 rpm and wheel speed < 13 km/h
- Unlocking condition for anti-tilting: > 2200 rpm and wheel speed > 2km/h

⚠ Caution

- If the engine is on, do not turn the throttle handle when walking the vehicle manually. When the speed reaches the unlocking threshold, after being unlocked, the 2-wheel vehicle can easily become unstable and risk tipping over.
- When starting the vehicle, it should be set to unlocking state for a smoother start.
- When the vehicle is starting or decelerating, as the vehicle is in

between the unlocking and locking threshold, the rider must be careful when riding. The rider should familiarize themselves with vehicle operations and the device switching characteristics to ensure safety of usage.

- If the locking indicator turns orange, it means there are problems. Please restart the vehicle. If problem cannot be resolved, please visit the KYMCO dealer for inspection and repairs.

⚠ Warning

1. Before locking the Front Suspension, the rider must keep the motorcycle in an upright position. If the motorcycle is tilting, it may lead to an unstable center of gravity as to cause the overturning of the vehicle.
2. Be sure to release the front suspension locking under any of the following circumstances. Otherwise, it may lead to unbalanced riding and cause the overturning of the vehicle.
 - When riding on muddy, bumpy or coarse road surface conditions.
 - When passing through obstacles deployed along the road such as crosswalks and the road humps, etc.
 - When riding on the slope.
3. If you need to walk the motorcycle, shut down the vehicle power beforehand. Otherwise, the Front Suspension might be released accidentally as to cause the overturning of the vehicle.
4. Do not execute the sliding by turning off the motorcycle when the Front Suspension is under locked status as it may result in uncontrollable riding during the sliding process. If starting the vehicle power during the sliding process, it may release the Front Suspension Lock inadvertently as to lose the balance.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

5. After starting the Front Suspension locking when the vehicle is on stopped status, use the hand brake or operate the parking brake to prevent the vehicle from executing unexpected sliding.
6. When putting aside the vehicle for a long time, park the motorcycle with the Main Stand and unlock the Front Suspension in the meantime.
7. If the voltage of the vehicle is low, the Front Suspension Lock will execute the unlocking function only. When the system determines that the vehicle has been supplied with sufficient voltage, the Front Suspension Lock will resume its normal operations.
8. If the system is abnormal, the Front Suspension Lock warning lamp will display in orange. After emitting a long warning sound for 6 seconds, the system will release the locking automatically; or the system will release the locking when the warning sound is emitted intermittently.
9. When the front suspension mechanism is locked, excessive shaking may cause the vehicle to tip over. Therefore, when parking, make sure to put down the main stand to ensure safety.

Conditions required for Front Suspension Lock automatic shutdown

1. When the vehicle speed is higher than 2km and the engine revolution is over 2200rpm, the system will release the Front Suspension Lock automatically. In the meantime, the Front Suspension Lock warning lamp will flicker and the Buzzer will sound twice.
2. Tight accelerator status: The system will release the locking automatically if the short-time revolution of the engine is over 3000rpm.
3. Parking state: When the vehicle is under still status, the system will

release the locking automatically if the engine short-time revolution is over 3000rpm.

Caution

- ◆ When parking the vehicle, ensure that the main stand is erected, the anti-tilt button is pressed, and parking lever is lifted.
- ◆ When parked on sloped or uneven surfaces, there are still risks of tip over even with the front suspension lock. The owner should evaluate and park the vehicle on appropriate level ground to ensure safety.

4. Park Alert Switch/ Engine Ignition Switch:

Park Alert Switch:

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

OFF: Push this switch to the right, all the Park Alert Indicator stop flashing.

⚠ Caution

- Do NOT use the Fault Alert Light for prolonged period after stopping the engine, or power of battery will deplete.

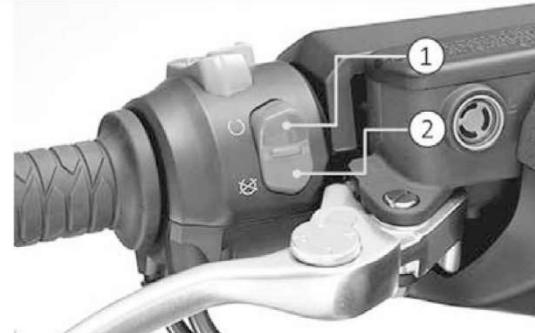
5. Engine Starting Switch:

Be sure to pull up the front or rear brake lever when starting the engine electrically. After that, push this button to start the engine.

⚠ Caution

- To avoid insufficient voltage of battery and you cannot start the engine, go to KYMCO dealer for check-up when the starting motor becomes less powerful.

Engine Stop Switch



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

○: The Engine can be started when setting the switch to this position

During normal riding, put the Engine Stop Switch at “○” position.

In the event of emergency, such as fuel cable jam or vehicle tumbling, turn the switch to “☒” position to force-stop the engine.

⚠ Caution

Please note! When travelling under high speeds, do not shut off

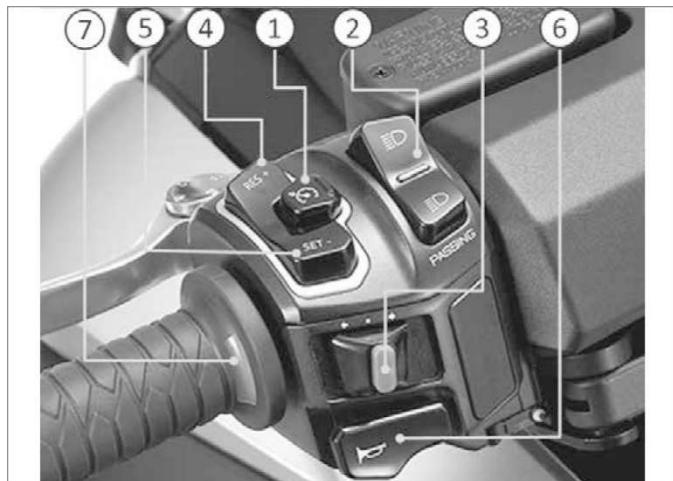
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or turn on the engine switch arbitrarily, to avoid dangers of collision or concerns to traffic safety due to loss of speed.

6: Horn Switch

7: Handlebar Heater Indicator

Left Handlebar Switch



1: Cruise setting key

2: High/Low Beam/PASSING Switch

3: Winker Switch

4: Restore/Adjust Button

5: Setting/Adjustment Button

Cruise Control Settings Button:

The vehicle speed must be greater than 45km/h to set the setting. The steps are as follows:

1. Press Cruise Setting Key ON
2. When the indicator light is lit, begin setup
3. Accelerate to the desired cruise range.
4. Press the SET button
5. Execute the cruise function

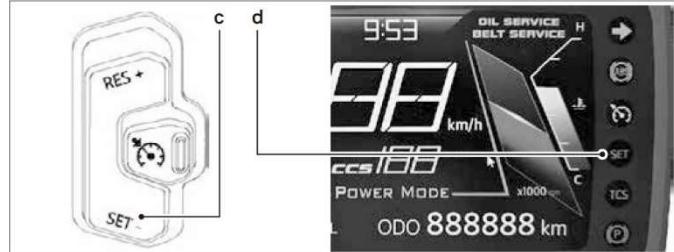
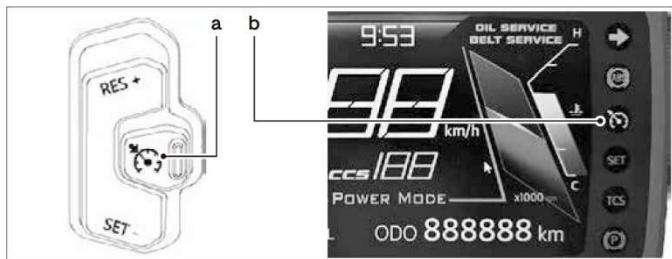
⚠ Caution

- ◆ After setting the desired speed, adjust the acceleration and deceleration between 45 - 130 km/hour (adjusted by 2km/hour each time).
- ◆ To deactivate cruise function: 1. Pull the brake 2. Press the cruise control button.
- ◆ RES function: Press this button if the rider wishes to restore the previous speed setting after cruise control is cancelled.
- ◆ To release the cruise with brake, press “RES” again and you may return to the speed set last time. If you need to release the cruise with the “OFF” key, then set the cruise once again.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Setting cruise control

- Press the Cruise setting key.
- After confirming that the cruise control indicator light on the instrument panel is on, you can proceed.



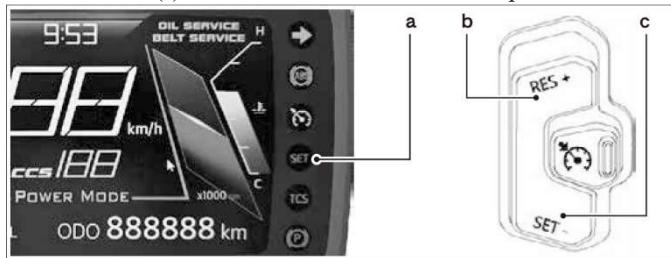
- Accelerate to the desired speed range, then press the SET(-) button to confirm the setting.
- When the cruise control SET indicator light on the instrument panel is on, the cruise control function is active.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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Cruise limit adjusting method

- When the cruise function is activated.
- Press RES(+) button to increase the cruise speed.
- Press SET(-) button to decrease the cruise speed.



⚠ Warning

- Improper use of cruise control may cause failures, and lead to accidents. Do not use the cruise control system when riding in busy traffic conditions, bad weathers, 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 from starting the Cruise Control System 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 previous the cruise set value will be cleared after shutting down the vehicle power for 30 seconds.

High/Low Beam Switch/Flasher PASSING key:

Switching the control to  turns on the high beam.

Switching the control to  turns on the low beam.

Over-pass Light Switch:

Pressing the PASSING button will activate High Beam.

Blinker Switch:

Use the winker when making a turn or changing a lane. Pressing-in the button will deactivate the Winker.

⇨: Use this position for Right Turn.

⇦: Use this position for Left Turn.

The blinkers will not deactivate automatically, they require switching off after use. Forgetting to resume it may result in traffic safety issues.

Horn Switch:

When the KEYLESS main switch is on, pressing the horn button will sound the horn.

Handlebar Heater Switch:

- After turning ON the Main Switch, press and hold Handlebar Heater Button for 3 seconds or more to activate/deactivate Handlebar Heating Function.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

- After activating Handlebar Heater controller, click the button to select heating level in the sequence of 1 → 2 → 3 → 1 → 2 ...



Handlebar Heater State Indicator

- After turning ON KEYLESS Main Switch, a self-check is performed with the LED indicator flashing in a 1-white and 1-red order.
- After KEYLESS Main Switch ON and indicator self-check, in the event of a Handlebar Heater anomaly, the indicator will flash in red, with the Handlebar Heater function disabled. (Refer to anomaly states below for indicator flashing modes.)
- After KEYLESS Main Switch ON, press and hold the button to activate Handlebar Heater. Indicator lights in white constantly for normal operation.
- Turn KEYLESS Main Switch OFF or press and hold the button to deactivate Handlebar Heater. The indicator will go out.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

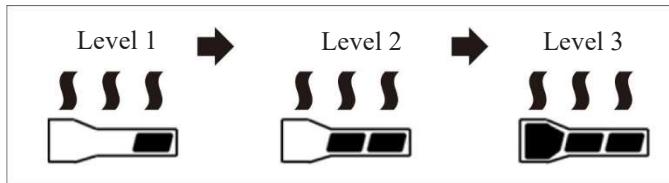
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- e. If Handlebar Heater is faulty, the indicator will flash in red.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

- Troubleshooting

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



Dashboard Level Indication:

- On activation of heating function, Dashboard will receive signal from controller and display the current heating level to the user.
- Level Indication:
 - Level 1: 45 °C
 - Level 2: 55 °C
 - Level 3: 65 °C
 - Heating Function OFF: All goes off.

This is only the setting value; the actual temperature depends on the environment temperature and vehicle condition, a difference may exist.

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

! Warning

- Please do not use the heating function for extended time if the vehicle is not under ignition state, this will result in early depletion of the vehicle battery.
- When restarting the vehicle, the handlebar heating function will be reset to off state.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Rear Brake Lever

Rear Brake Lever situates on the Left Handlebar; when applying the Rear Brake, hold the Front Brake Lever with left hand and apply a proper force on it.

Rear Brake Lever.

⚠ Warning

Improper operation may result in danger.



⚠ Caution

The rear brake handlebar is equipped with a position adjusting knob. Turn the knob and you can adjust the distance between rear brake handlebar and left handlebar. Please set the knob to the proper position and align with the Alignment Mark on the

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Front Brake Lever

Front Brake Lever situates on the Right Handlebar; when applying the Front Brake, hold the Front Brake Lever with right hand and apply a proper force on it.

Front Brake Lever.

⚠ Warning

Improper operation may result in danger.



⚠ Caution

The front brake handlebar is equipped with a position adjusting knob. Turn the knob and you can adjust the distance between front brake handlebar and right handlebar. Please set the knob to the proper position and align with the Alignment Mark on the

Parking Lever



This vehicle is provided with a Parking Lever for locking up the rear tire, so as to prevent accident caused by rear tire movement when parking the vehicle on a slope.



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

⚠ Warning

- Never use the Parking 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 this Parking Lever.
- When using the Parking Lever, verify if rear tire is truly stopped from moving.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

- Before riding your scooter, verify if the Parking Lever is released, otherwise output power may be affected and the Parking Brake may be damaged.

Foot brake

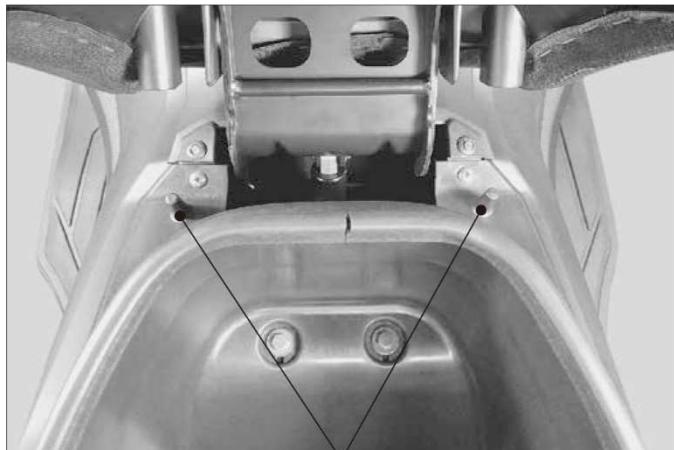


This vehicle is equipped with the foot brake function as an auxiliary to the front/rear braking system. Thus, the foot brake has a linkage to the front/rear brake when braking.

⚠ Warning

Improper operation may result in danger.
Due to the linkage between the systems, there will be feelings of linkage when braking; this is a normal phenomenon.

Helmet Hook



A Helmet Hook is provided on the front edge of Seat Pad. Lift up the Seat and put the buckle of the Helmet around the Hook, then close up the Seat Pad.

⚠ Warning

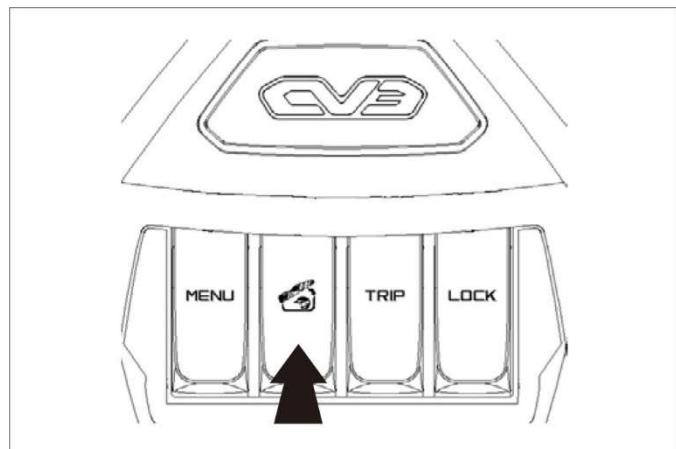
- Do not ride your scooter with a helmet hanging on the hook, otherwise the hanging helmet may hit other vehicles or obstruct the rider, leading to obstructed operation safety.
- The hooks can only be used for hanging helmets. Do not use

them for other purposes to avoid danger.

Storage Box

1. Electronic

- When the KEYLESS main switch is at KEY ON, press the “SEAT” button in the center switch to open the storage box.
- Pushing the seat to its original position will close it up.



Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

- The Storage Box is located under the seat cushion and it can be used to store the safety hat and other objects.
- If the KEYLESS Main Switch is on “KEY OFF” status, show the wireless key near such main switch and you will be allowed to 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.



2. Mechanical

- When the vehicle is out of power or if one does not have the KEYLESS car key, it will require a physical key to open the storage box.
- Insert the key and twist to the right until the seat pad opens, then the storage box can be opened.



The key hole is located on the bottom left of the seat.

Do Not exceed the following load limits:

The maximum load of the storage box shall be limited to 10kg at most.

⚠ Warning

- Store the safety hat with the most appropriate method. If the object exceeds the capacity of the Storage Box and you attempt to close the seat cushion forcefully, it may cause the seat cushion damage.
- For the purpose of theft prevention, do not put valuables in the Storage Box. Close the Seat Pad when leaving the vehicle.
- Please safekeep the physical key to avoid the predicament of replacing the whole set of keys.

⚠ Caution

- You may not be able to put the safety hat in the Storage Box due to the dimensions and the shape. Please select a safety hat that is suitable for the capacity of the Storage Box.
- Make sure not to leave the 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.
- Due to engine operation and environmental factors, the Storage Box tends to be warm and humid; do not put fragile, flammable or easy to decay objects in it.
- Please do not place alcohol, gasoline, volatile objects, lithium batteries, lighters, any electronic items, and items at risk of

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Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

burning or explosion into the storage box to avoid danger.

Components inside the Storage Box

Light:

The lamp lights up when Seat Pad is lifted up, goes out when closed. (After closing the seat pad, confirm that the “” sign on the dashboard is turned off)



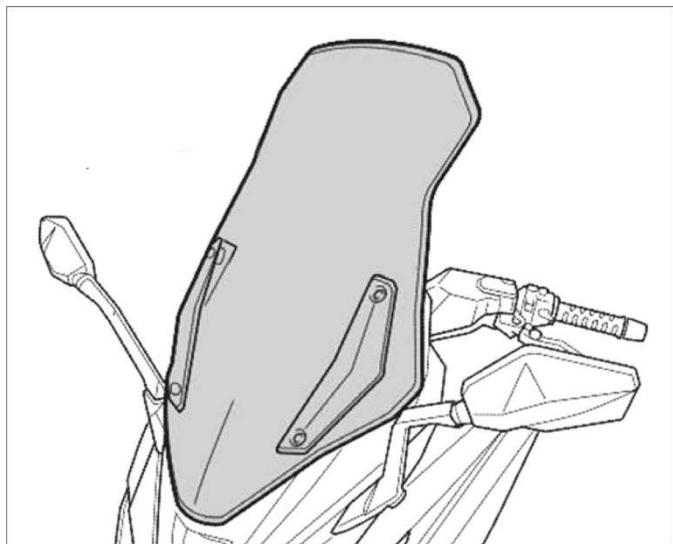
LED storage box light

Caution

The seat light on/off function must be operated while the instrument panel is powered on.

Windshield

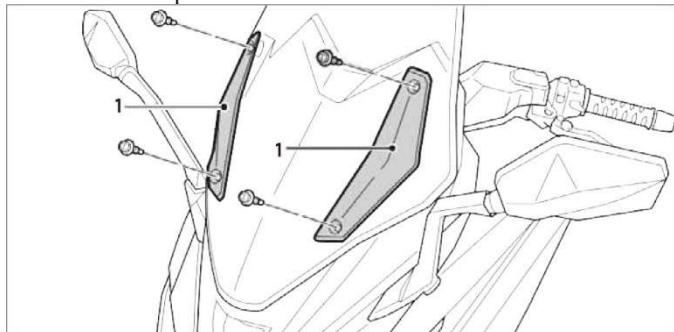
There are two options of Windshield Height subjecting to rider's need.



Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

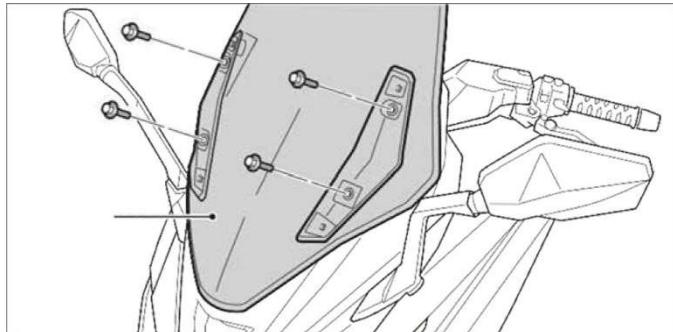
Adjusting Windshield Height

1. Remove the Mounting Screw and then remove the front Windshield protection cover.



1: Front windshield protection cover

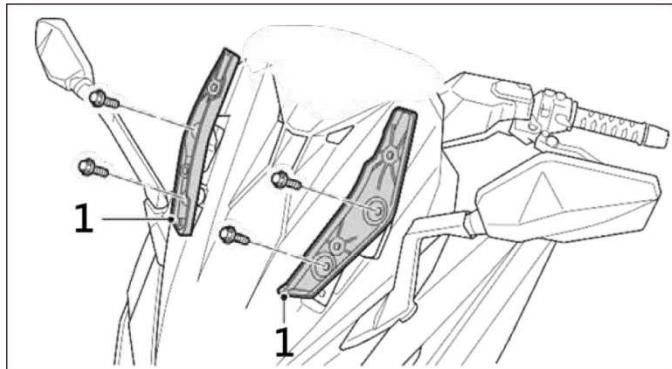
2. Remove Screws and Windshield.



Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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3. Remove the Windshield spacer holder.



1: Windshield spacer holder.

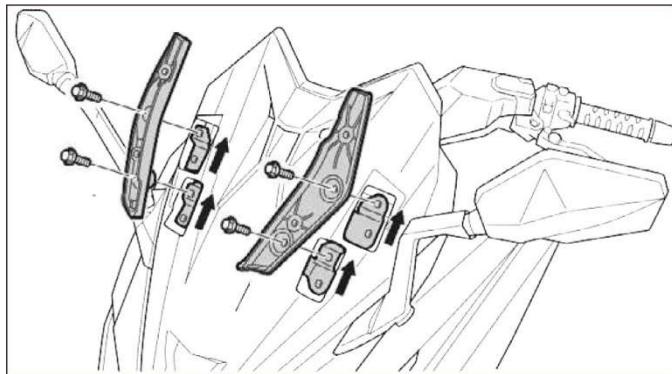
4. Install the Windshield spacer holder at the most appropriate position. Tighten screws to specified torque.
5. Install the Windshield with screws to the fixing position.
6. Tighten screws to specified torque.

⚠ Warning

Slackened Windshield can lead to accidents. Make sure that screws are tightened to specified torque.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

7. Install the windshield front cover and tighten the fixing screws.



Tightening Torque:

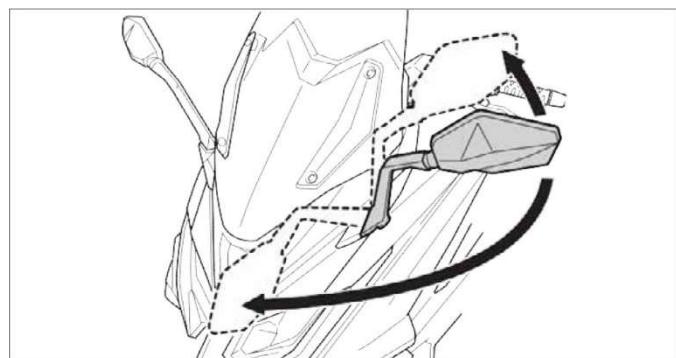
Securing Seat screws

20-28 N·m (204-285.6 kgf·cm)

Windshield Screws

10-14 N·m (102-142.8 kgf·cm)

Rear View Mirror



Rear View Mirrors are the important equipment for securing the rider's safety before and during riding. Proper use of the Rear View Mirror is essential. Back Mirror is designed to be capable of turning forward and backward. When parking in a narrow space or putting down the vehicle, you may adjust the Back Mirror to a proper position.

⚠ Warning

- Adjust Rear View Mirrors to proper positions before riding the vehicle.
- To secure safety of the rider as well as other vehicles in behind, never remove the Rear View Mirror or replace them

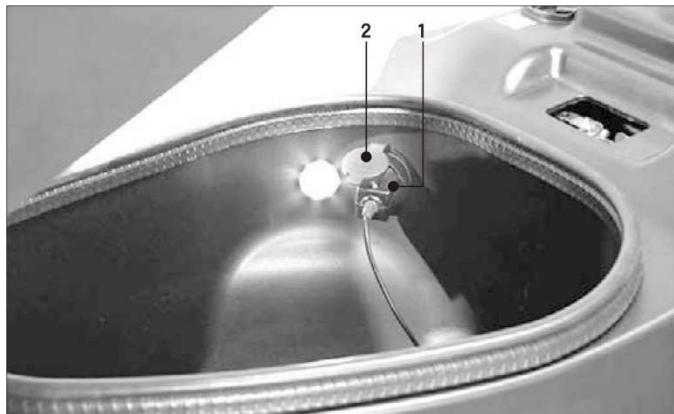
Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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with inadequate ones.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

12V Power Socket:



1: 12V Power Socket 2: Protection Cap

- This vehicle is equipped with the 12V power socket on the left front side inside the storage box.
- You may connect a low power consumption product to the Socket, for charging the product while the engine is running.
- The maximum load for the power socket: 25W Max.
- To avoid electrocution or short-circuit, make sure to cover-up the protection cap after using the 12V Power Socket.
- To prevent any accident from occurring, park your Scooter at a safe location before using the 12V Power Socket.

⚠ Caution

- 12V Power Socket can only be used with a running engine.
- To prevent power depletion of battery, do not charge a product using the 12V Power Socket without running the engine.
- To prevent fuse from being blown, do not charge a product 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 product is unplugged and the Protection Cap is properly covered back.
- If the power is disconnected, reduce the load, turn off the KEYLESS main switch and then restart the power.
- Do not attempt to alter the power to prevent damaging the wiring system of the entire vehicle.

Rider Backrest



To enhance the riding comfort of the rider, the backrest has 3 adjustable positions.

Rear Seat

The CV3 adopts the split-type seat design, where the rear seat padding can be switched between solo rider and 2-person rider mode.

Solo rider mode switch

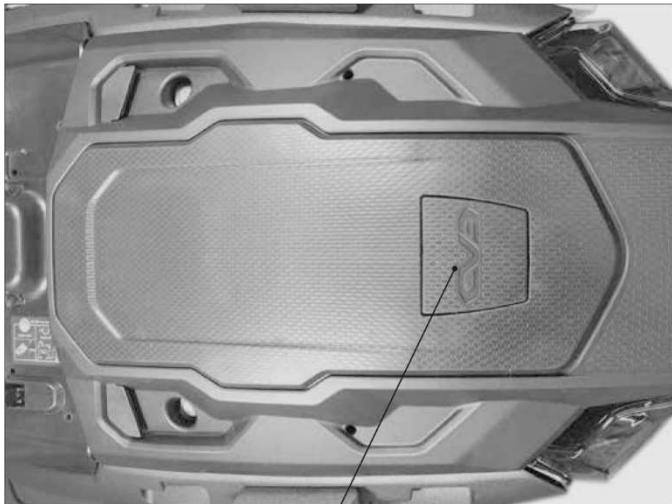
1. Open the Storage Box
2. Push the rear seat locking lever forward to release the lock.
3. After unlocking, the rear seat can be taken out.
4. Finish by replacing the key hole trim.



4

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Seat locking lever

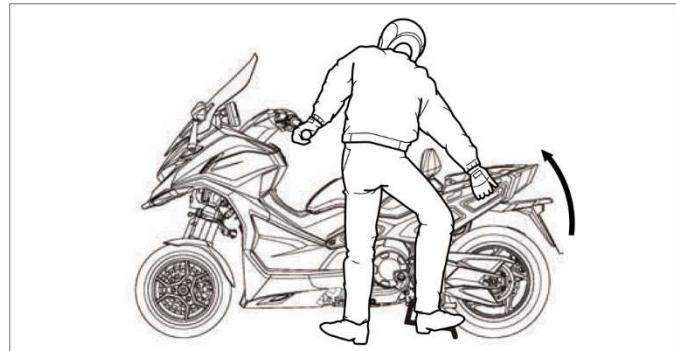


Decorative Cover

⚠ Warning

- ◆ Ensure that the locking latch firmly locks onto the seat when the seat pad is replaced, to prevent dangers of the seat falling while riding.
- ◆ If the locking latch is loose or faulty, please visit the KYMCO dealer for repairs.

Main Stand



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

⚠ Warning

- ◆ Make sure the Main Stand springs up fully before riding the vehicle.
- ◆ The Main Stand must not come in contact with the ground while riding the vehicle, otherwise it may interfere the riding and cause loss of control due to abrasion with the ground.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

- Main Stand may fail to spring up to position while running the vehicle if the bracket spring becomes weak. Go to a KYMCO dealer for replacement as soon as possible.

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

Fuel Tank Cap



Locked

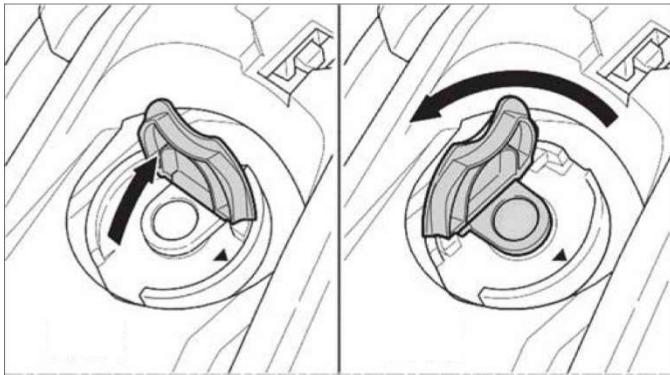
Opened

The fuel filler cap can be seen after opening the seat pad.

⚠ Warning

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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Open the fuel filler cap by lifting upwards, then twist to the left to open the cap.

Close the outer cover of the Gasoline Tank and then screw back the Gasoline Tank cover. After confirming that the Gasoline Tank cover is correctly restored, press the Gasoline Tank outer cover until it is latched securely.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

TPMS, Electronic Tire Pressure Sensor

Operation instructions:

The TPMS is composed of three units of wireless tire pressure sensor (per unit for two front wheels and rear wheel respectively, which are installed in the tire valve.) After sensing current tire pressure, the sensor will transmit such value to the controller wirelessly. The controller will then transmit the signal to the meter where it will be displayed through the indicator in order to inform the driver about the current tire pressure value.

⚠ Warning

1. When KEYLESS Main Switch is set ON, the Tire Pressure Sensor related Model Symbol on the left side of Dashboard will light up; if this symbol then goes out automatically, the tire pressure is normal. (as shown in the Figure).



Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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

Front Tire Pressure

Higher than 3.2 kgf/cm² (45.5psi)
or lower than 1.6 kgf/cm² (22.8psi)

Rear Tire Pressure

Higher than 3.75 kgf/cm² (53.3psi)
or lower than 1.65 kgf/cm² (23.4psi)

The owner needs to replenish or release 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 status:

Front Tire 2.0 kgf/cm² (28.4psi) Rear Tire 2.7 kgf/cm² (38.4psi)

- Do Not remove wireless Tire Pressure Sensor or Controller, or TPMS function will be lost.
- No re-adjustment of TPMS is required when a new tire or rim is replaced.
- Re-adjustment of TPMS is required when replacing a new wireless tire pressure sensor and controller; please consult a KYMCO dealer.
- When replacing a tire rim, the Tire Pressure Sensor shall be

kept in a correct order to distinguish the front one and the rear one.

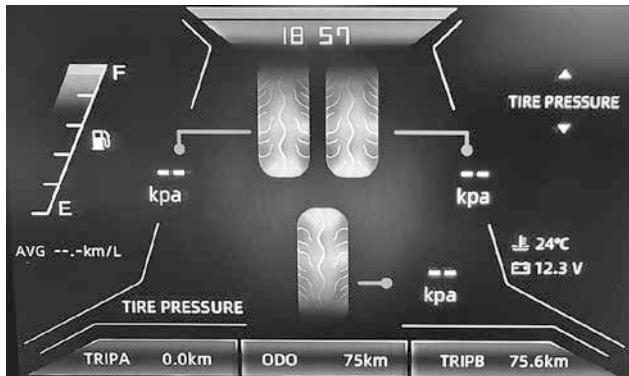
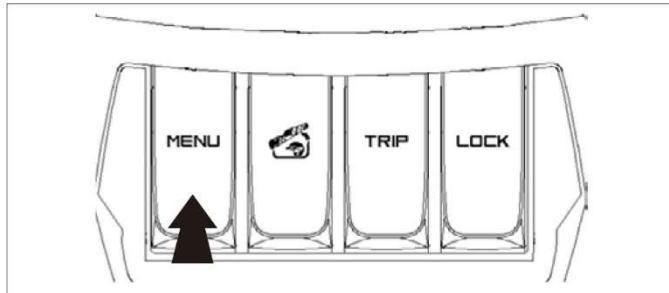
TPMS Learn Code Operation

- Applicable to owner and dealer service personnel.
- Re-adjustment of TPMS is required when replacing a new wireless tire pressure sensor and controller.
- When performing code learning, keep the vicinity clear of other vehicle or transmitter, to prevent miss-triggering.
- Confirm that the electronic tire pressure detector has been correctly installed, that the tire pressure meets the intended pressure value and that the tires are correctly installed.

Learn Code Activation Operation

- Press and hold the “MENU” button in the center switch.
- KEY ON the KEYLESS Main Switch.
- Wait until the image of tires appear on the dashboard and release the “MENU” button.
- TPMS is now entered into Code Learning Mode.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.



5. The red colored tire indicates it is under code-learning state.
6. Flatten or refill the tire so that the change in tire pressure is greater

the 0.2kgf/cm^2 (3 psi), then the sensor will be activated within 1 min. Once there is a reading of the tire pressure, the code-learning settings of a tire is completed.

(If a Code Learn is not performed when the Front Tire flashes, press the confirm button “O” to jump to Rear Tire Code Learn. If a Code Learn is not accomplished within 2 minutes, the program exits Code Learn Mode.)

7. After the code-learning settings of a tire is completed, it will automatically go to the next tire for code-learning.
8. The operator will also go the next tire and repeat the above steps for code-learning settings.
9. If one wishes not to code-learn, press the “O” button to skip to the next round of code-learning. If code-learning is not completed within 2 mins, it will exit the code-learning mode.
10. After the code-learning settings, press the “O” button to leave exit, or press KEYLESS main switch ON-OFF to restart

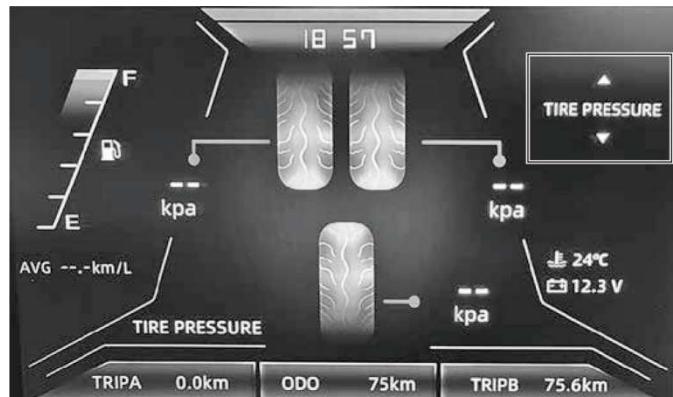
Caution

1. After acquiring the vehicle, inflate the tire till over 1.4kgf/cm^2 (20 psi) and then let the TPMS PC learn the initial value automatically so that it may operate normally in the future.
2. Re-do Code Learning after replacing parts.
3. Because the tire pressure detector is mounted on the nozzle position, keep the tool-inserting position away from the nozzle when replacing the tire.

4. Make sure the direction is correct when replacing a part.
5. Tire Pressure values are for reference only.
6. Slackening of nut during parts installation will cause air leakage.
7. If the tire pressure cannot be detected, it means the tire pressure detector battery is running out of the power. In this case, make a part replacement.

Change Pressure Unit

Short-press MENU to enter the sub-screen. In the “TIRE PRESSURE” option, press the down button to enter. Press the up button to select kgf/cm², bar, psi, or kPa. After selecting, short-press the “O” button to confirm and exit. If there is no action for about 10 seconds, it will automatically exit.



Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

TPMS Error State

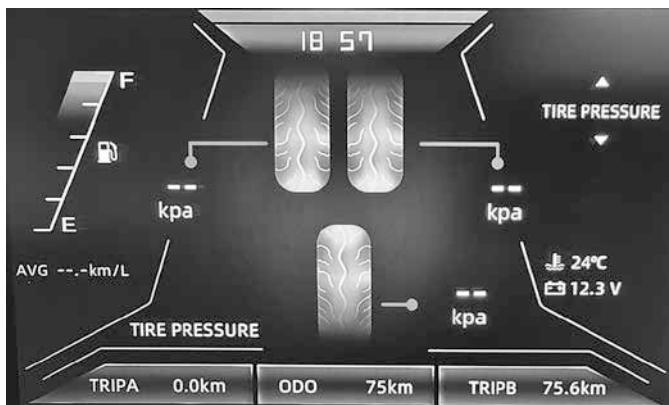
Depending on the TPMS error state, the dashboard will display with the indicator light as well as the tire pressure screen. The messages are as follows.

| | | | |
|-------------------------------|---------------------------------------|--|--|
| receive signal sent by SENSOR | indicator lighted and “--” displayed. | | |
|-------------------------------|---------------------------------------|--|--|

| Abnormal status | Dashboard indicator | Remarks | Display priority |
|---------------------------------------|------------------------------------|---|--|
| Low tire pressure | Lighting anomaly | Always on | To be handled according to the sequence of occurring event |
| Tire pressure too high | Lighting anomaly | | |
| Tire pressure SENSOR Low voltage | Lighting anomaly | | |
| Tire pressure quick deflating | NG Light flashes rapidly | Lights up 0.5 second Goes off 0.5 second | |
| Tire pressure gradual deflating | Abnormal indicator slow flickering | Lights up for 1.5 second and goes out for 1.5 second. | |
| Display the unintended initial value. | Picture empty 0.0 | Always on | |
| TPMS cannot | Abnormal | Always on | |

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

ABS (Anti-lock Braking System)

ABS is a double electronic control system capable of controlling front, rear and pedal brakes respectively. When ABS is activated, the rider can feel pulses acted by ABS on the handlebar; in which case the rider needs to hold the handlebar constantly, without “press-and-releasing” it, or the ABS effect may be diminished.

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



⚠ Caution

ABS is controlled by ECU; if ABS fails, the ABS Brake Indicator will light up; ABS may lose its function, but the original brake still works; the ABS resumes normal braking functionalities.

Caution

- When riding on a rough or pebbled road surface, effective ABS braking distance will become longer.
- Always keep a proper safety distance with preceding vehicles while riding a scooter.
- 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 power of KEYLESS Main Switch, or when vehicle speed exceeds 6 km/h, ABS will execute a self-diagnosis. When ABS activates, you may feel a light vibration on the Brake Lever, which is a normal phenomenon.
- In the event of an emergency brake in response to a special road condition, ABS system helps preventing a locked wheel resulting from the sudden braking action, allowing the rider being able to steer the vehicle smoothly. An ABS system controls the braking force automatically to prevent the tire from skidding.
- An ABS system will not shorten braking distance in the following conditions: when running on a soft and unleveled road or a descending slope, the braking distance is even longer than a vehicle without ABS. Therefore models with ABS have the optimal performances on flat road surfaces.
- An ABS System comprises 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.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

⚠ Warning

- ◆ Using tires not conforming to original size specifications may result in malfunctioning of the ABS system, or even an accident of the rider due to malfunctioned activation of the Anti-lock Braking System. Therefore it is a must that you use tires conforming to KYMCO specifications.
- ◆ When vehicle speed is below 6km/h, the ABS system 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 indicator will be lit.

TCS (Traction Control System)



TCS Indicator:

OK: Amber light is off.

NG: Amber light is always on.

Activation: Amber light blinks.

Off: Green light always on.

Press MODE button to switch in cycle:

1. POWER +TCS ON (Amber light)
2. RAIN + TCS ON (Amber light)
3. POWER +TCS OFF (Green light)

⚠ Caution

- ◆ When KEY ON and the engine is not started, you can switch to 1, 2 and 3 freely.
- ◆ After the engine is started, and the vehicle is idling, you can switch to 1, 2 and 3 freely.
- ◆ After the engine is started, and the vehicle is running, you can not switch to 1, 2 and 3.
- ◆ TCS indicator: When activating the Main Switch, the amber

indicator lights up; when the speed of the vehicle reaches 6km/h, the indicator turns off.

About TCS

When the throttle is opened too wide during riding or when riding on slippery surfaces, such as those covered with ice, snow, or wet roads, the rear wheel may lose control and skid. TCS helps the vehicle maintain traction under such conditions.

When the sensor detects that the rear wheel begins to slip, TCS will adjust the engine speed until the rear wheel regains traction. During this adjustment, the engine feedback or exhaust sound may differ from normal riding conditions.

When starting the vehicle in cold weather, if throttle input is needed to start or warm up the engine, it is recommended to turn off TCS function before starting and turn it back on after the engine has started.

⚠ Warning

TCS doesn't replace a stable control by the rider. When the rider enters a curve at excessive speed, accelerates suddenly, or brakes abruptly on a steep slope, TCS cannot prevent loss of traction or front-wheel slippage. Therefore, when riding a vehicle equipped with TCS, the same caution as riding a regular vehicle should be exercised. Always ride carefully and avoid particularly slippery surfaces.

⚠ Caution

- ◆ When the vehicle is stuck on soft or unstable surfaces such as mud or sand, turn off TCS to help the rear wheel escape.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

- ♦ If the throttle is kept open for an extended period while the center stand is engaged, it may cause the spark plug to become wet, and the indicator light will flash amber.
- ♦ If the battery is abnormal or fails, TCS will not function, and the indicator light will remain solid amber.

O2 Sensor



This vehicle is provided with O2 Sensor for reducing generation of pollutants in the exhaust gas.

⚠ Warning

Do not dismantle or replace O2 Sensor by yourself, otherwise the O2 Sensor may deteriorate or lose efficacy.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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Muffler and Catalytic Converter



Catalytic Converter is used for reducing generation of pollutants in the exhaust gas.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

⚠ Warning

Exhaust Control System complying with EPA Exhaust Emission Standard, the scooter is equipped with following parts in the Exhaust Control System:

- Electronic Control Unit (ECU)
- Crankcase Ventilation Valve
- Catalytic Converter
- Throttle
- Various sensors:
 - Air Intake Temperature Sensor
 - Air Intake Pressure Sensor
 - Throttle Position Sensor
 - O2 Sensor
 - Temperature Sensor

After using the vehicle, the exhaust system becomes extremely hot due to heat from the exhaust gas

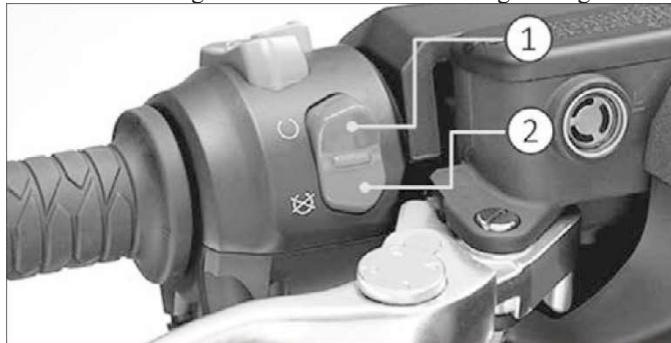
To prevent fire or burn:

- ◆ Park the vehicle properly so that pedestrian or children cannot reach.
- ◆ Do not park the vehicle in the vicinity of flammables.
- ◆ Never turn off the Keyless main power switch while riding the vehicle. Otherwise a great amount of non-burnt gas mixture will enter into muffler and combust there, damaging and burning the Catalytic Converter.
- ◆ Use only unleaded gasoline; leaded gasoline can result in aging and failure of Catalytic Converter.

Proper Riding Method

Starting the Engine

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



Engine Stop Switch

Ω: The Engine can be started when setting the switch to this position.

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

Caution

- 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-up Switch will not activate the motor.

- The Engine Stop Switch is meant for a temporary engine stop only

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.



1. Confirm that the KEYLESS car key is within sensing range.
2. Press the KEYLESS Main Switch button to turn power ON.
3. Make sure the throttle grip is fully closed.
4. Confirm that the engine stall switch has been switched to “ Ω ”.

⚠ Caution

When not in use after stopping the vehicle, be sure to set the KEYLESS Main Switch key to the “OFF” position to prevent the battery from discharging excessively.

5. Hold the front brake lever or the rear brake lever, and then press the start button and the engine will become active.



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, for preserving battery power.

⚠ Caution

- ◆ Release the start-up switch immediately after the engine is started.
- ◆ Never push the start-up switch when engine is running, or engine parts may get damage.
- ◆ When starting the engine, the rear brake lever shall be set to braking state, the brake light shall light up when the power is connected.
- ◆ 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), for facilitating engine operation and a trouble-less riding.

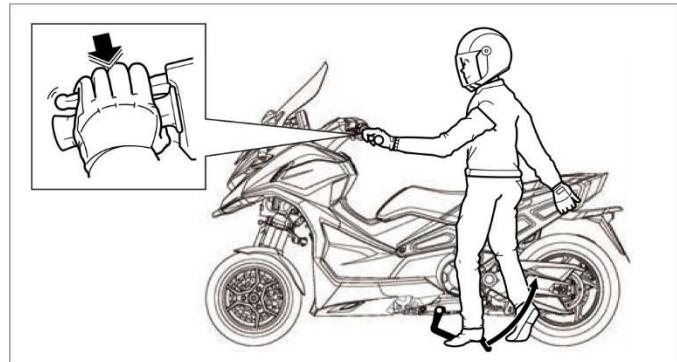
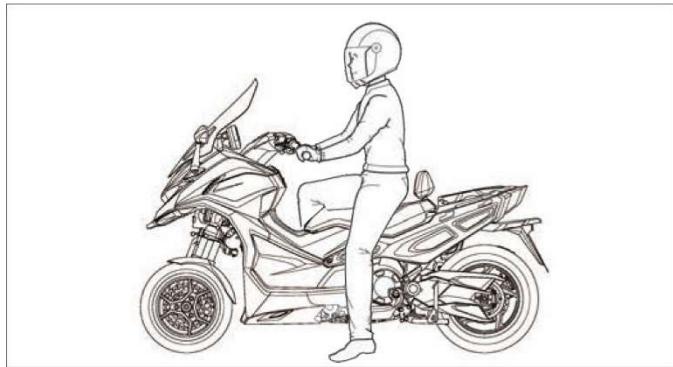
⚠ Warning

- ◆ Before advancing, keep the Rear Brake Lever in braking state. DO NOT raise engine rpm arbitrarily.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Proper Riding Method

- Keep the Rear Brake Lever in braking state and push the vehicle forward, the Main Stand will spring up automatically.
- Mount the vehicle from the left side and then sit squarely, with both feet touching the ground to prevent tilting. Adjust the rear view mirror to the intended position.
- Release the front wheel anti-tilting lock device after sitting properly with both feet on the ground for support, and watch out for the change of center of gravity from 3 wheels to 2 wheels after unlocking the device.



⚠ Warning

- Keep engine rpm away from the red zone.
- After starting the engine, do not raise engine rpm while not advancing the vehicle, or danger may occur.
- Before advancing, keep the Rear Brake Lever in braking state. DO NOT raise engine rpm arbitrarily.
- The front wheel locking device will be automatically released as the openness of the throttle reaches the threshold; thus, the rider must be careful with such dangerous actions.
- The owner must practice the vehicle's shift of center of gravity between the unlocking/locking state of the locking device. This is of utmost importance and is a matter of personal safety.

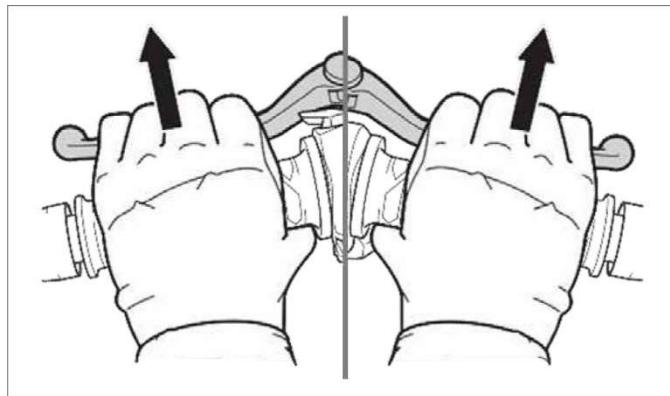
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Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Release Front and Rear Brake Levers



Turn the Throttle Grip to adjust scooter speed.



- Speed is controlled by adjusting the Throttle Grip.
- The more the turning range, the quicker the vehicle speed. Increase fuel (throttle) slowly.
- When taking off or riding on an up-slope, slowly turn the Throttle Grip to increase horsepower.
- When returning to the original position, the vehicle will reduce its speed. Be agile while returning the Throttle Grip.

⚠ Warning

After releasing the brake, do not turn the Throttle Grip arbitrarily, or the vehicle may dash out dangerously.

⚠ Caution

- For prolonging engine service life, do not speed up suddenly when the vehicle is still cold.
- Do not turn the Throttle Grip rapidly, or the vehicle may dash out.
- When the vehicle is starting under the 3-wheel state, the vehicle will automatically unlock as the speed exceeds the unlocking threshold and become the 2-wheel state; prepare for the shift in the center of gravity.

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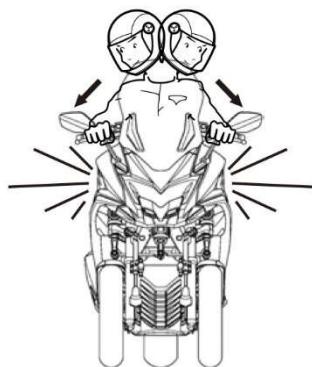
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- If one lacks confidence about the change of center of gravity, it is strongly suggested to unlock the vehicle first and start it under the 2-wheel state for safety.

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

Proper Riding

Before taking off, switch on the winker, check traffic conditions both directions, slowly turn the Throttle Grip to start.



Running-in a new engine

- Run-in Period of a new engine is 300km; keep speed under 80 km/h in this period.
- Avoid speeding-up rapidly.

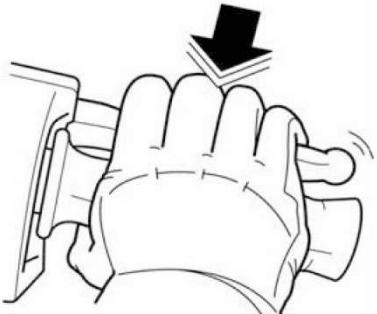
⚠ Warning

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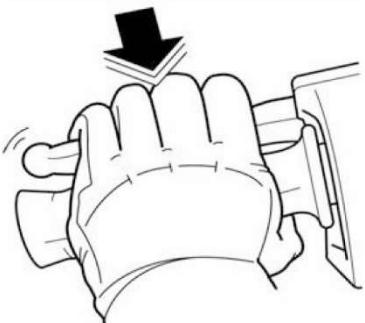
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Brakes

Front Brake



Rear Brake



Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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Foot brake



1. Before using the brake, release Throttle Grip first to a full close.
2. Grip both the front and rear brake levers at the same time and exert force gradually to activate the brake.
3. The foot brake acts as the auxiliary brake for the front / rear brake linkage. Please apply gradual braking force according to the road conditions, and do not apply hard braking to avoid dangers.

- Braking on a wet or sandy road requires a longer effective braking distance and is more difficult.
- Slow down while running on mountain roads; it will be more difficult to brake while running down-slope, more dangerous as well.
- Do not brake or turn abruptly.
- Abrupt braking and turning are the causes for the extremely dangerous side skidding or tumbling.
- If you lack confidence about the operations of this vehicle, please proceed slowly to practice and familiarize yourself with the braking system.

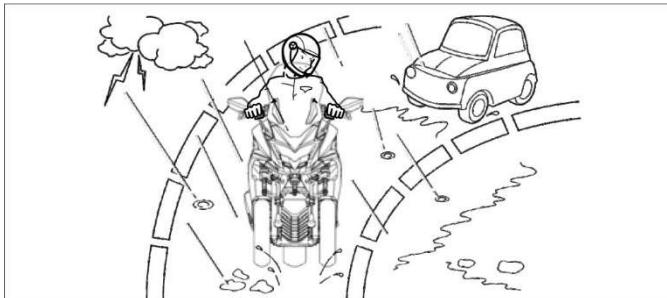
⚠ Warning

During rainy days, special care should be used when operating the motorcycle as the road surface condition during rain is different from that of sunny days. Because a longer braking distance will be required, reduce speed and use the brake at an earlier stage.

When running down-slope, return Throttle Grip to closed position and apply brake intermittently to slow down the speed.

⚠ Warning

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.



⚠ Warning

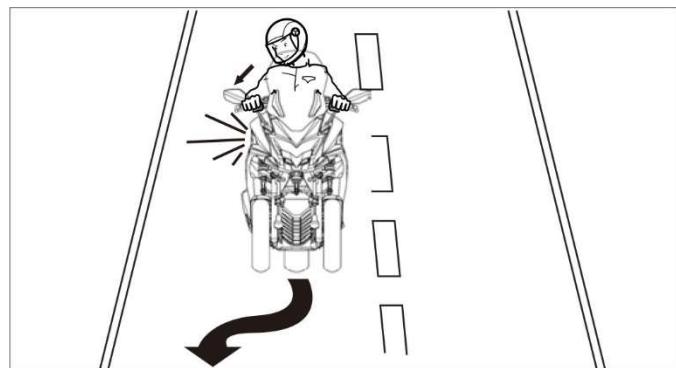
- Avoid forceful or emergency braking especially when the vehicle is tilting to one side, or a side skidding or tumbling may occur.
- Wet road surfaces as well as railroad crossover, light rail track, manhole cover, and steel plates covering the construction sections are very slippery;
- Slow down and take extra caution when passing them.

Proper Parking Method

When approaching to a parking location:

Switch on the blinker in advance and take heed of vehicles behind you while slowly pulling over. Restore the refueling handle to its original position and then use the front, rear and pedal brakes at an earlier stage. At this time, the brake lamp will be lit in order to warn vehicles approaching from behind.

When the vehicle stops, lock it into the 3-wheel mode and avoid risks of tipping over from losing the sense of gravity.



At full stop of the vehicle

Turn off the blinker. Turn off the KEYLESS Main Switch.

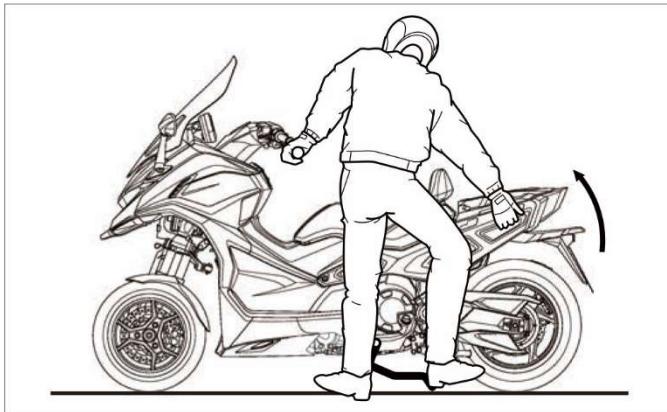


Rear Grip beside the Seat Pad with right hand and pull upwards forcefully.

Parking the Vehicle

- Standing on the left side on a flat ground, the rider shall brace the Main Stand up.
- Brace the Main Stand up on a flat ground not impeding the traffic.
- Bracing up the Main Stand on an unlevel ground may result in tumbling of vehicle.
- Hold the Handlebar with left hand and keep it straight; while treading down the Main Stand with right foot, grasp the Left

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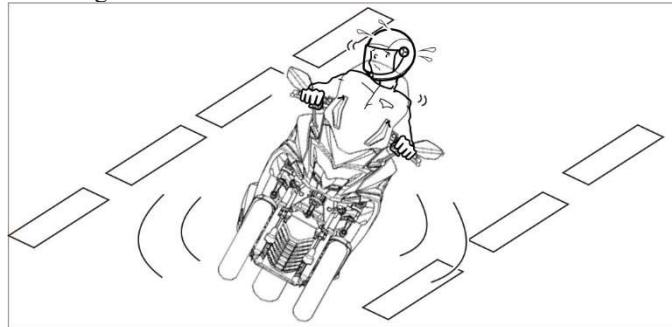
stand.

⚠ Warning

- If the KEYLESS Main Switch can be turned off during the cruising process, it means the fail-safe function has failed. Go to a KYMCO dealer for repair as quickly as possible.
- To prevent theft, lock the steering lever when leaving the vehicle after parking and please also keep the wireless key with you at all times.
- Before erecting the main stand, release the locking mechanism to ease the standing action.
- When the front suspension mechanism is locked, if the ground is uneven, it will be difficult to put the vehicle on the

A tumbled vehicle

To restart a tumbled vehicle with engine stopped, you need to turn the KEYLESS Main Switch off and on again before restarting.



Lift it, make sure the surroundings are safe, and move the vehicle to a safe location.

- ♦ If the vehicle cannot be lifted, do not lift by force to prevent the vehicle from tipping over again from imbalance. When necessary, request the assistance of others to lift the vehicle.
- ♦ If personnel are stuck under the tipped vehicle, call out for help accordingly, as it is outside of personal capabilities.

⚠ Warning

- ♦ To prevent the leakage of gasoline from the tipped over vehicle leading to dangers, the KEYLESS main switch should be turned off manually, or the engine ignition switch be set to the shut-off position when the vehicle is tipped over.
- ♦ If the vehicle tips over and the engine does not shut off, you should manually turn off the KEYLESS main switch or set the engine kill switch to the off position.
- ♦ When the vehicle is tipped over, confirm that the anti-locking device is in unlocked state, and turn off the vehicle.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Checks before Riding

Keep a good habit to perform checks before riding

For keeping your vehicle in a safe and effective operating condition, perform regular checks, adjustments and lubricating maintenance according to the Maintenance Program.

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

⚠ Warning

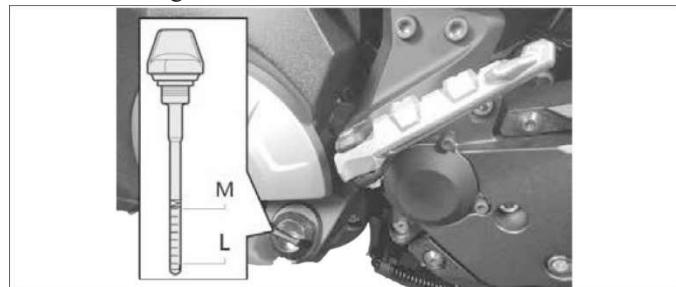
- Please consult a KYMCO dealer if you are not familiar with scooter check-up and maintenance.
- Injury or electrocution may occur if any body part or clothing touches a running engine. Please stop the engine when maintenance.
- For preventing burning hazard after riding a vehicle, touch its engine, muffler, brake disc, brake caliber or brake pad only after it has cooled down.
- When performing maintenance, never run the engine in an enclosed space; there is a risk of carbon monoxide intoxication due to exhaust emission.
- To avoid damaging the vehicle, never carry out any maintenance without receiving a professional training or lacking of a special tool.

Engine Oil and Oil Filter

Check engine oil for compliance with level requirement or any leakage. Engine Oil and Oil Filter shall be replaced regularly according to maintenance and lubrication schedule.

Check/Replenish Engine Oil

1. Park the vehicle on flat ground and brace up the Main Stand. Activate KEYLESS Main Switch and start the engine, idle it for about 3 minutes without using Throttle Grip, then stop the engine. Allow resting for another minute.
2. Pull out Oil Level Guide and wipe it clean, insert the Oil Level Guide without screwing it in.
3. Check the oil level; when the oil surface nears L, please refill the engine oil to between M and L.



⚠ Caution

Engine and Muffler are extremely hot. Take special care to prevent

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burn while checking oil level.

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Recommended Oil Specification

Specification:

SAE: 10W/40 MA

API: SL Class or better

First oil change when running 1000 km; afterwards every 5000 km.

⚠ Warning

- ◆ There are many inferior oils in the market which may cause engine failure if miss-used by the consumer.
- ◆ To ensure oil replacement of your beloved vehicle with recommended specifications, please visit the KYMCO dealer where you purchased your vehicle from.

⚠ Caution

- ◆ A slanted vehicle may lead to a faulty verification of oil level.
- ◆ If oil is checked or replaced immediately after stopping the engine, be specially careful not to get burnt.

Check/Replenish the Fuel

- Replenish gasoline as soon as possible when the Fuel Indicator on the Dashboard approaches the last segment near E.
- Replenish with E5 Unleaded Gasoline as soon as possible.

Using Fuel Tank Cap:

Stop Engine first

1. Turn KEYLESS Main Switch off, keep turning clockwise to the end will open the Fuel Tank Decorative Cover. Then open Fuel Tank Cap.
2. Use only E5 unleaded gasoline.
3. Restore the Fuel Tank Cap until it is properly positioned. Check if the Fuel Tank Outer Cover is securely latched.

⚠ Warning

- ◆ DO NOT smoke when replenishing gasoline.
- ◆ Stop engine when replenishing gasoline.
- ◆ When replenishing the fuel, keep the fuel level below the baseline plate, otherwise the fuel will overflow.
- ◆ It is recommended to add "KYMCO Nozzle Cleaner" in the fuel every 1000km when replenishing the fuel, for cleaning Fuel Injection Nozzle.
- ◆ Avoid operating Fuel Pump for prolonged time when the Fuel Tank is empty, which may affect normal service life of

Fuel Pump.

Check Steering Stem

1. Check for any slackening by swaying it up and down, forward and back, and left and right.
2. Check if Handlebar is too tight.
3. Check the Handlebar for any colliding.
4. Left-right turning steer. The steering link components shall not present any loosening sign.
5. When finding any anomaly, go to a KYMCO dealer or service station for repair.



Check and adjust the front and rear brake components.

1. Adjust brake lever clearance using adjustment knob (totally 4 adjustment positions).
2. Push the brake lever forward when adjusting the knob (default setting is 3).
3. After adjustment, pull the Brake Lever (1) with hand until reaching a position where fingers feel comfortable; check if the clearance at the front end of Brake Lever is within the specified dimension.
4. The pedal distance of the foot brake is automatically adjusted by default. If the pedal distance is found to be larger than normal or is faulty, please visit KYMCO dealer for repairs.

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Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.



1: Adjust brake lever

Inspection of front and rear brake oil

1. Straighten the Handlebar, check brake fluid in the Reservoir. If level nears the Lower Mark, check the brake lining for wear.
2. If level lowers near the lower limit "L" mark, check the brake lining for a worn condition.
3. If the brake lining is not worn exceeding a specified limit, most likely there is a leakage of brake fluid; go to a KYMCO dealer repair.



Reservoir Cover of Brake Fluid

Replenishing the front and rear brake oil

1. Straighten the Handlebar, remove 2 mounting screws of Reservoir and remove Reservoir Cover.
2. Replenish Reservoir with recommended DOT-4 Brake Fluid to the Upper Scale. Install Reservoir Cover and tighten 2 fixing screws.
3. Replace Brake Fluid every 10000km or once a year.



Brake oil peep window

⚠ Warning

- Mixing brake fluids of different brand and different specifications may result in braking fault and danger.
- When replenishing the brake fluid, cover painted parts with

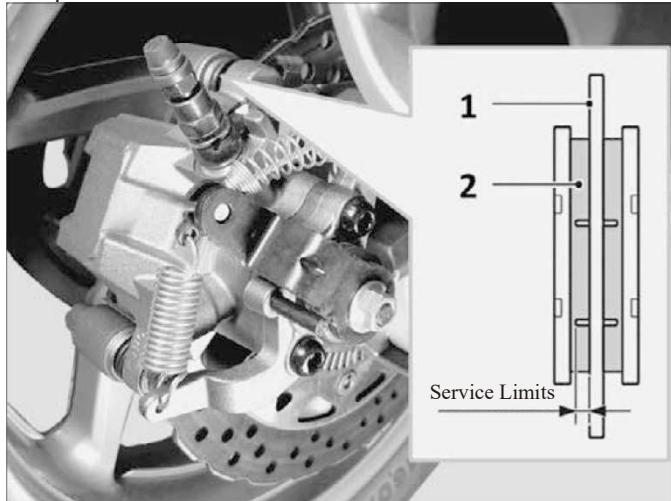
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a cloth to prevent damaging them.

Check Front and Rear Brake Lining

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



1: Brake Disc

2: Lining Pad

Check Brake Lining Limit

Check the brake lining, when the wear limit is reached, please contact the KYMCO dealer shop for replacement.

Check Tires

- Check the ground-contact status of the tire and see if the tire air pressure is normal. If low, inflate the tire to reach normal pressure.
- In case of a gripping anomaly, check tire pressure for normal readings using a pressure gauge.

Pressure measurements of cool tire:

With 1 rider

Front wheel 2.0 kgf/cm² (28.4 psi) Rear wheel 2.70 kgf/cm² (38.4 psi)

With 2 riders

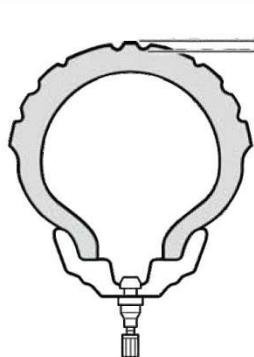
Front wheel 2.0 kgf/cm² (28.4 psi) Rear wheel 2.70 kgf/cm² (38.4 psi)

- Check the tire grooves for any metal or pebble chips; remove them, if present, before riding.
- Replace the tire if there is a fracture or the limit of the groove depth is reached.

⚠ Warning

When the tire pressure is very low or the tires are incorrectly balanced, riding of the vehicle will lead to dangerous rotational vibrations.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.



(See arrow indication in the drawing.)

Measure the groove 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 is lower than the service limit. Make sure the wheel is properly balanced when a new tire is replaced.

Service Limits:

Front Tire 0.8 mm
Rear Tire 0.8 mm

Tire groove abrasion inspection: Check the tires before starting a journey.

In case of finding a transverse line (minimum pattern depth), nail or glass chip on the tire, or crack line on the side wall of tire, go to Kymco dealer for replacing with new one.

Excessive wear of tire tread pattern will result in reduce friction and the tire will become more prone to be punctured; it also affects safety of operation.

Tire Specifications:

| | |
|---------------------------|------------|
| Front Tire Specifications | 110/70-13 |
| Rear Tire Specifications | 160/60-R15 |

Check the Brake Light

- Turn on the KEYLESS main switch power.
- Respectively pull the front and rear brake levers. Verify if the brake light goes on.
- Check Brake Light for stain or fracture.

⚠ Caution

Turn on the KEYLESS Main Switch, but Engine Stop Switch to "Off"



Check the Tail Light

- Turn on the KEYLESS Main Switch.
- Check if the Tail Light goes on.
- Check the Tail Light Lens for stain or fracture.



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Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Check the Headlight

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



Headlight

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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Check Winkers

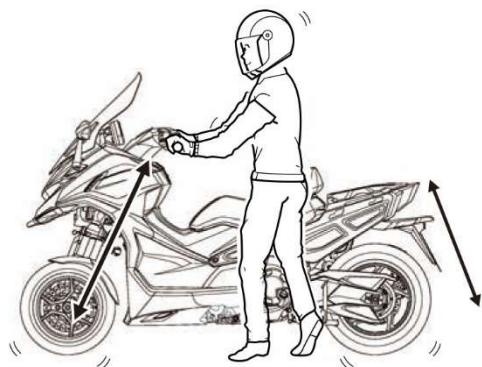
- Turn on the KEYLESS Main Switch.
- Operate Winker Switch to verify if each Winker works.
- Check Winker lens for stain or fracture.



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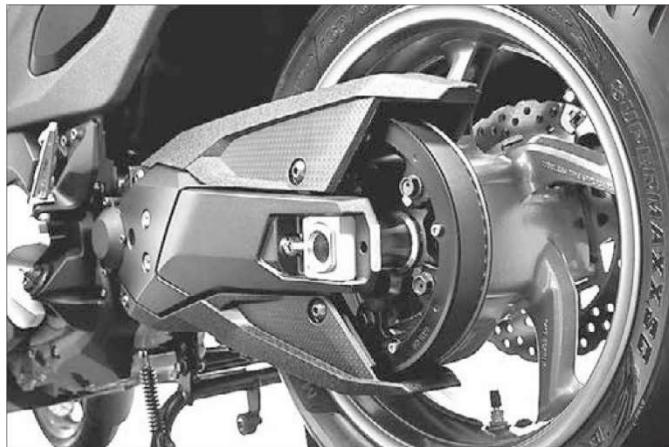
Check Front/Rear Cushion

Hold the front brake. Press and turn the handlebar hard several times and then check if the front fork is operating and bouncing smoothly. When detecting any damage or if the front fork cannot operate smoothly, please contact KYMCO dealer for inspection or replacement.



- Check if Head Light, Tail Light or Winker goes on normally. Start engine and turn on switches, check if Head Light, Tail Light or Winker goes on normally, and check for any stain or fracture on the light lens.
- Check the Dashboard for Normal Display
- Check the Horn for working normally.
Turn on the KEYLESS Main Switch and then press the horn switch.
- Check the back mirror for proper angle?
Sit yourself on Seat Pad and check the rearview of the mirror; also check for any damage or stain.
Considering actual riding safety, a torque is specified by the statutory regulation as of 1.02 - 1.428 kgf-m (10-14 N-m). Therefore, when fixing the Rear View Mirror onto the vehicle, it shall not be totally rigid (nor exceptionally loose).
- Check the License Plate for any Stain or Damage. Check License Plate for any stain or damage; secure it tightly.
- Check for normal exhaust gas. Check Muffler for slackening or noise.
- For any others, check if previous anomalies still exist.

Inspect the outer transmission belt



If the above problems cannot be resolved, please visit the KYMCO dealer inspection or replacement.

- Erect the vehicle with the main stand, rotate with rear wheel manually,
- visually inspect whether the rear wheel belt has abnormal scuff marks.
- Whether there are foreign objects attached, and remove them.
- Whether the belt and the pulley are rubbing on a single side, and has no more gap.
- The screws of the top / bottom cover of the belt are loose.

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⚠ Caution

- Please do not adjust the belt and remove relevant rear wheel mechanisms arbitrarily. They should be repaired by professionals at the KYMCO dealer.
- If there are cracks or deformed damages 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 bodily parts into the vehicle when the engine is turned on or is moving.
- Do not spray or apply any oil or unknown solvents to the belt to prevent the mutation of the material.
- The passenger shall not use the top cover as the footrest. This may deform the cover and affect the belt.

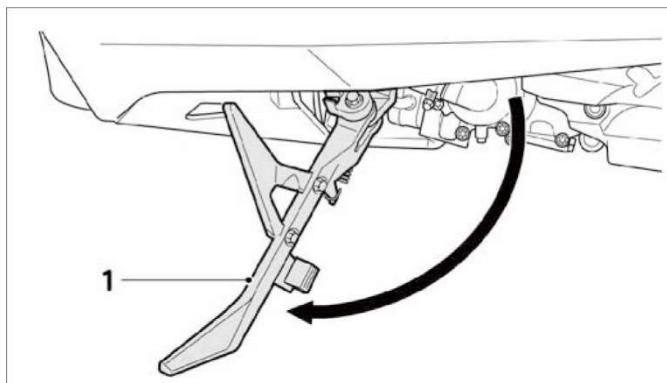
Side Stand

In addition to parking the vehicle, the Side Stand provide an additional safety mechanism: when it is lowered down, the ignition power will be cut off automatically.

Checking Method:

Check the Automatic Engine-Stop Function of Side Stand.

1. Brace up Main Stand on flat ground
2. Retrieve Side Stand to UP position and start the engine.
3. Kick Side Stand to DOWN position and engine shall stop running automatically.



Caution

If any problem occurs when operating Side Stand, go to a KYMCO dealer for checking up.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Simplified Maintenance and Repair

Regular Checks

- To ensure comfortable riding, regularly checking of 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 check is also required when vehicle is left idle for a long period 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 1000km.

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.
- Operate with proper tools.
- Carry out preparations with the engine stopped.
- Engine body and muffler are extremely hot after engine stops, take care not to be burnt.

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Overview of Regular Maintenance

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

| | | Maintenance mileage | 1000 km 600 miles | 5000 km 300 miles | 10000 km 600 miles | 15000 km 900 miles | 20000 km 12000 miles | 25000 km 15000 miles | 30000 km 18000 miles | Remarks |
|---|---|---------------------|----------------------|----------------------|-----------------------|-----------------------|-------------------------|-------------------------|-------------------------|--|
| Items | Engine Oil | R | R | R | R | R | R | R | R | I: Inspection A: Adjustment C: Cleaning R: Replace T: Tightening M: Maintenance D: Diagnosis |
| Lubrication System | Engine Oil Screen | C | C/R | C/R | C/R | C/R | C/R | C/R | C/R | |
| Fuel Supply System | Engine Oil Filter | R | R | R | R | R | R | R | R | |
| Throttle Free Play | Fuel Pump and Fuel Pump Filter | I/C | I/C | I/C | I/C | I/C | I/C | I/C | I/C | |
| Air Supply System | Air Filter | I | I | I | I | I | I | I | I | |
| P.C.V. Evaporative Emission Control Valve | Canister | I | I | I | I | I | I | I | I | |
| CVT System Filter Wool | CVT System Filter Wool | | | R | | R | | R | | |
| O2 Sensor | P.C.V. Evaporative Emission Control Valve | I | I | I | I | I | I | I | I | |
| Catalytic Converter | CVT Driving Belt | I | I | I | I | I | I | I | I | |
| Cam Chain | Valve Clearance | I | I | I | I | I | I | I | I | |
| Transmission outer belt | Check and Adjust at every 40000 km (24000 mile) | | | | | | | | | |
| CVT Driving Belt | Spark Plug | I | | I | | R | | | I | |
| Valve Clearance | Ignition Circuit and ECU | | | I | | I | | | I | |
| Ignition System | Throttle Body | | | | | M/I | | M/I | | |
| Engine Management System | Fuel Injector Diagnostic Tool | | | I/D | | I/D | | I/D | | |
| Brake System | Idle Air Bypass Valve | | | D/M | | D/M | | D/M | | |
| Brake System | Engin Water Temperature Sensor | D | D | D | D | D | D | D | | |
| Brake System | Air Intake Temperature and Pressure Sensor | D | D | D | D | D | D | D | | |
| Brake System | Ignition Coil | D | D | D | D | D | D | D | | |
| Brake System | Battery | D | D | D | D | D | D | D | | |
| Others | Important Body Bolts | T | T | T | T | T | T | T | T | |
| Others | Brake System (Disc) | I | I | I | I | I | I | I | I | |
| Others | Brake cable (oil pipe) | I | I | I | I | I | I | I | I | |
| Others | Brake Fluid | | I | R | I | R | I | R | | |
| Others | Coolant | | I | R | I | R | I | R | | |

Random maintenance items

| Item | Situation and Handling |
|------------------------|--|
| Ignition System | If the ignition failure, engine overheating or engine stalling problems are noticeable and occur constantly, perform maintenance and inspection. |
| Remove Carbon Deposits | If horsepower decreases considerably between 10000 and 15000 km, remove the carbon deposits in the exhaust system, cylinder head and piston head. |
| Drivetrain | If the top speed drops considerably between 10000 and 15000 km, perform CVT System maintenance and inspection. |
| Piston | If you use the vehicle intensely before 1000 km, the pistons, piston rings and cylinder block can be worn down or cause of a seized engine. In this case, clean or bore the engine or replace it with a new one. |
| Fuel Injector | Please remove the carbon deposits or gummy residues inside the fuel injector every 1000 km or when the vehicle has not been operated for a long time. |

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

| | |
|---|--|
| Water tank heat sink and water tank front protection net. | Execute the inspection and cleaning for every 1000km of journey. Earlier cleaning and maintenance will be required if the running area is dusty and rainy. |
| ABS wheel speed sensor / reading disc | Execute the maintenance and inspection for every 5000km. If required, make new parts replacement. |

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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Check Battery

This vehicle uses maintenance-free battery. No battery fluid replenishment is required.

Check Battery Voltage

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

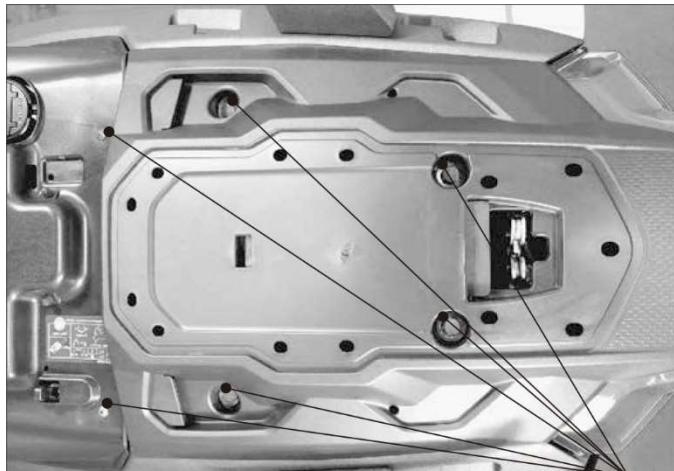
Method of replacement

Disassembly and installation of outer cover



Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

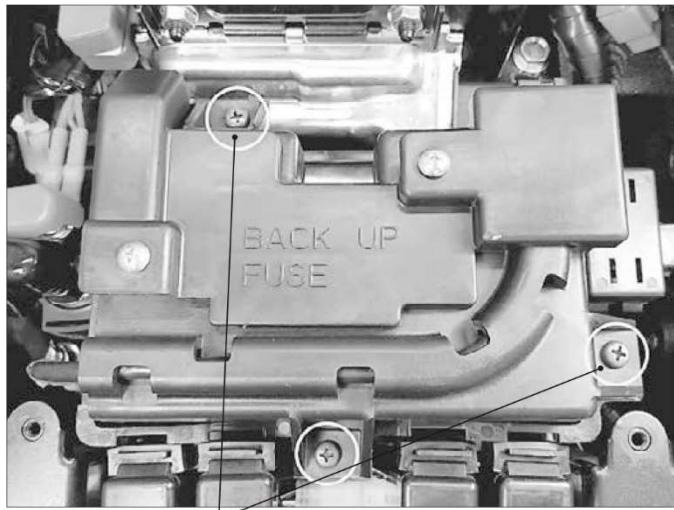
Remove the rear seat cushion and then remove the rubber sheath from the rear seat cushion protective cover.



1: Remove 6 mounting screws and then remove the seat cushion protective cover.

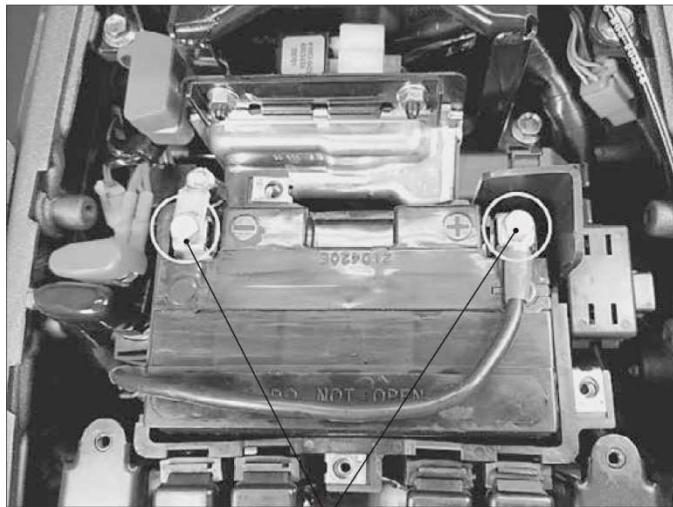
Disassembly of the battery cover

1. Remove 3 mounting screws from ECU.



Mounting Screw

2. Remove the positive/negative pole mounting screws from the battery.



Mounting Screw

3. Remove the battery.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Installation of the battery

Install in the reverse sequence.

⚠ Caution

Please note, 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.



Warning

Tenons and grooves are provided on outer covers. To prevent breaking the tenon by pulling or bruising it at portion of an acute angle, you need to be very careful when removing or installing an outer cover. If you worry about breaking the latch, or are not confident with its operations, please allow the KYMCO dealer shop to handle it.

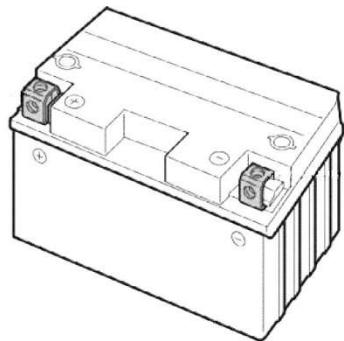
Caution

- Battery tends to self-discharge and become weak when the vehicle is left idle for a long time. Remove Battery from the vehicle and fully re-charge it; then store it in a cool and well ventilated place.
- Remove the negative cord from the battery if the vehicle is expected to idle for a long time.
- A weakened battery voltage is displayed on the dashboard sub-screen; you will need to remove the battery and fully re-charge it, or go to a KYMCO service station for service.
- If battery is stored for more than 2 months, it shall be checked monthly and re-charged if necessary.
- When re-using a stored battery, fully recharge it before installing it.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Cleaning Battery Poles

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



- Keep away from naked fire when removing/installing a battery.
- Before removing, turn off the KEYLESS Main Switch first. Followed by removing the negative (-) wire, then the positive (+) wire. Connect the positive wire first when installing, then the negative.
- Fully tighten a slackened nut of battery poles.

Precautions on using batteries

1. Electrolyte in the battery contains sulfuric acid, therefore is toxic and dangerous; severe burn may occur on negligence; avoid getting in contact with skin, eye or clothing. Wear goggles when working in the vicinity of battery. In the event of following conditions, 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.
2. The battery produces explosive hydrogen gas, so keep the battery away from any sources of fire (such as sparks, flames, or lit cigarettes). If charging in an enclosed space, make sure there is adequate ventilation.
3. Store batteries in a location where children cannot access.
4. The battery is located underneath the rear seat cushion. 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 KYMCO dealer for re-charge. Keep in mind that the more option devices installed on the vehicle, the faster the battery power depletes.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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Fuse Replacement

The Fuse is located to the left of the battery. Open the fuse cover to get to the fuse.

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

- Only replace electrical devices (lights, meters) with ones of specified ratings.
- If using an inadequate fuse, it may be blown easily or battery loading may become imbalance.
- Avoid frontal strong water jet when cleaning the vehicle.

Fuse Specification

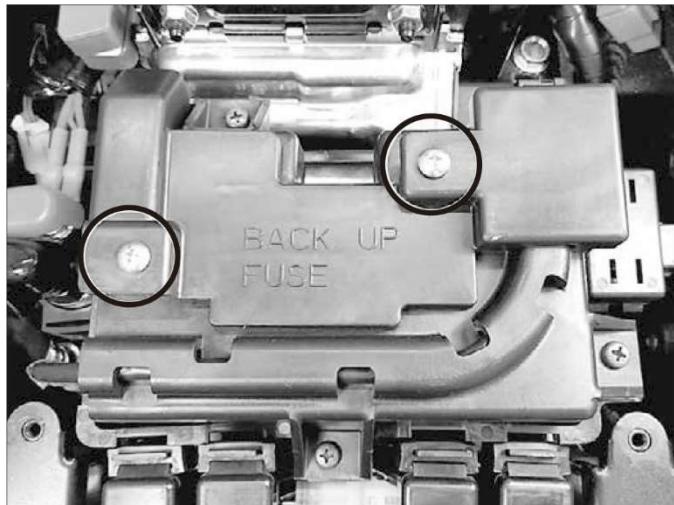
| | |
|----------------------------|---------------------------|
| Main Fuse | FI Parts |
| 30A | 10A |
| CONTROLLER 12V Controller: | Lights: |
| 5A | 10A |
| SEAT M, HAZARD Seat Pad | GRIP, DC SOCKET Heated |
| Open Motor/Warning Lamp | Handlebar/DC outlet: |
| Controller: | 5A |
| 7.5A | |
| Fans: | FR SUS LOCK M Front |
| 10A | Suspension Lock Mechanism |
| | Motor: |
| | 25A |
| ABS Motor: | |
| 25A | |

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Backup fuse

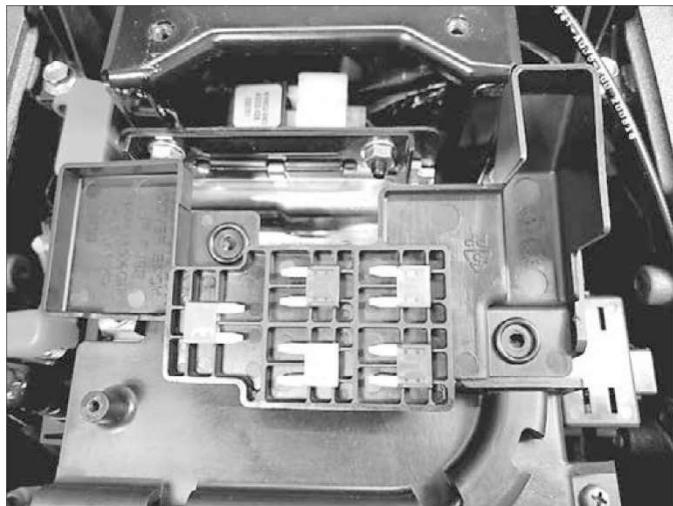
When the replacement of fuse is required, the backup fuse is located to the top of the battery cover.

Remove the 2 Mounting screws from the top side of the cover.



Remove the spare fuse protective cover

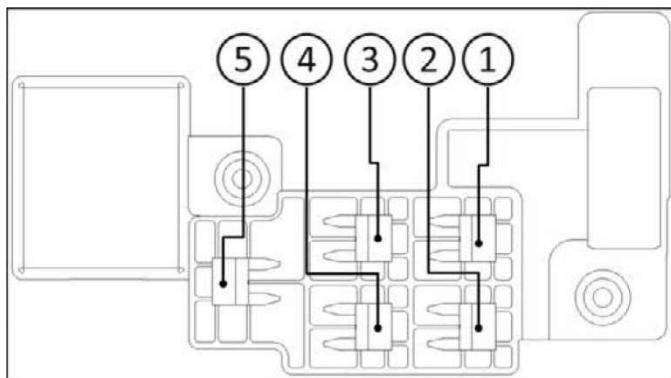
Flip to its back to obtain the backup fuse.



Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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Backup fuse specifications and configuration



① 5A

② 7.5A

③ 10A

④ 25A

⑤ 30A

⚠ Caution

- Only replace electrical devices (lights, meters) with ones of specified ratings.
- If using an inadequate fuse, it may be blown easily or battery loading may become imbalance.
- Avoid frontal strong water jet when cleaning the vehicle.

⚠ Warning

- The use of oversize fuse as 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.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

5. Replace a new Air Filter Element

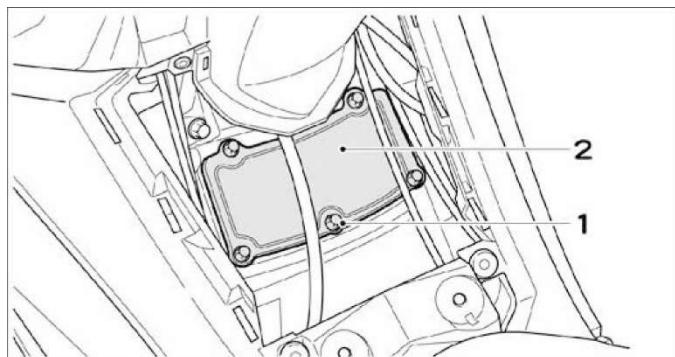
Air Filter

Replace Air Filter Element as specified in Regular Maintenance Schedule.

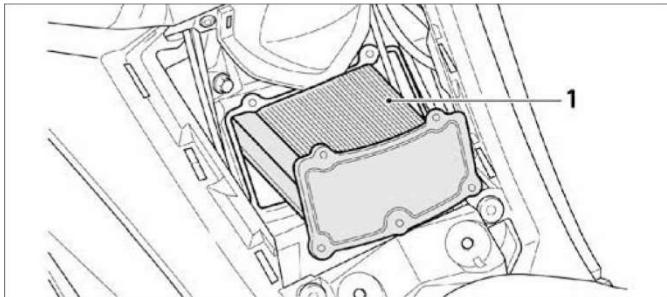
Check and replace Air Cleaner Element more frequently if vehicle is often used in dusty environments or damp areas.

Replace Air Filter Element

1. Remove outer covers of vehicle.
2. Remove Air Filter Cover.
3. Remove the Air Filter Cover Mounting Screw and take out Air Filter Element.



4. Take out Air Filter Element



1: Air Filter Element

Precautions on replacing Filter Element

- Make sure the Air Filter Element is positioned correctly in the case.
- Do not start engine when Air Filter Element is not installed, or dirty air may enter the engine and cause abnormal wear.
- Do not wet the air cleaner element when cleaning the vehicle, or engine start may become difficult.

6. Install Air Filter Cover and tighten Mounting Screw.
7. Re-install outer covers of vehicle.

Caution

Air Cleaner Element made of paper is used. Clean the Element every 2000 km.

Replace with a new air cleaner element every 5000 km.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

CVT Transmission System Filter Wool

Excessive dust accumulation in CVT Transmission System may result in unsMOOTH vehicle operation; clean and replace Filter Wool regularly.

Clean Filter Wool regularly as specified in Maintenance Schedule; replace or clean Filter Wool every 10,000 km.

Replace Filter Wool

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

Insert Method

Operate in reversed procedures as removal.

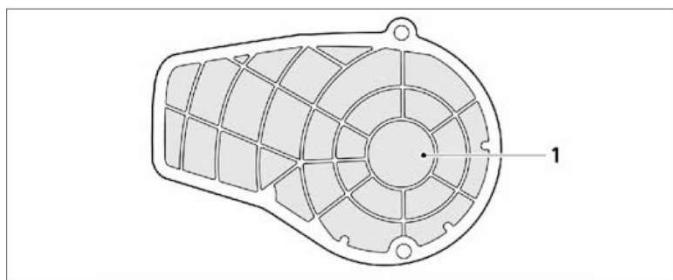


1: Crankcase Right Cover

2: Side plate on the right

Cleaning Method

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



1: Filter Wool Body

User Precautions

1. Do not remove battery cable when KEYLESS Main Switch is set to ON.
2. Tighten torque: 0.1~0.2kgf-m (0.98-1.96 N·m) (do not exceed 0.6kgf-m (5.8 N·m)). 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.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

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3. After installation, ensure that bolts will not loosen and wires will not interfere with the chassis, in order to avoid any possible danger.

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

- When the user or personnel of service station removes the Muffler, it is necessary to remove O2 Sensor first

Caution

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

Change Oil

Oil Change Period

First oil change when running 1000 km; afterwards every 5000 km. In order to maintain optimal engine performance, check the oil level every 1,000 km. Replenish to standard level in case of shortage.

Oil Capacity

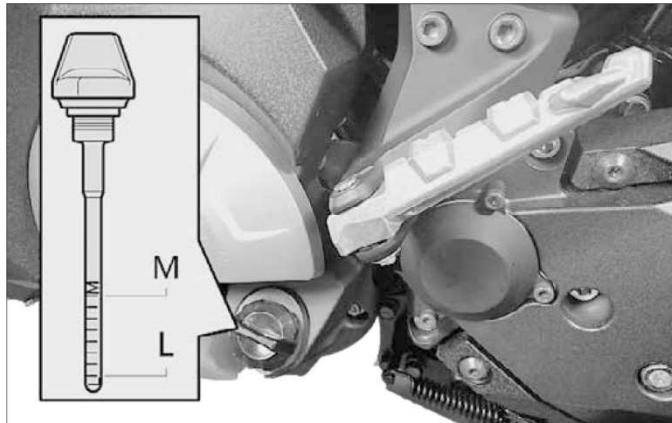
Dismantle: 3.0L (full capacity)

Change oil: 2.6L (excluding oil filter)

2.7L (including oil filter)

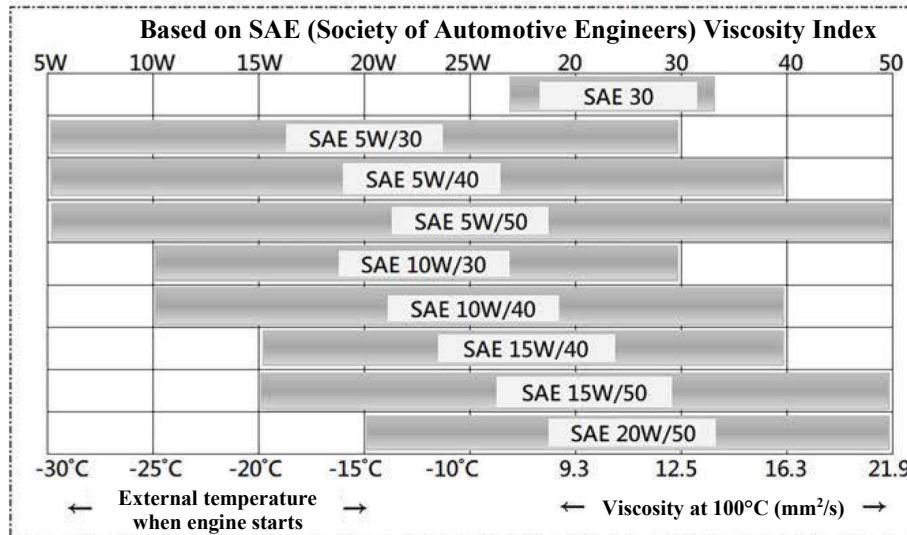
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Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Applicable Temperature of Engine Oil



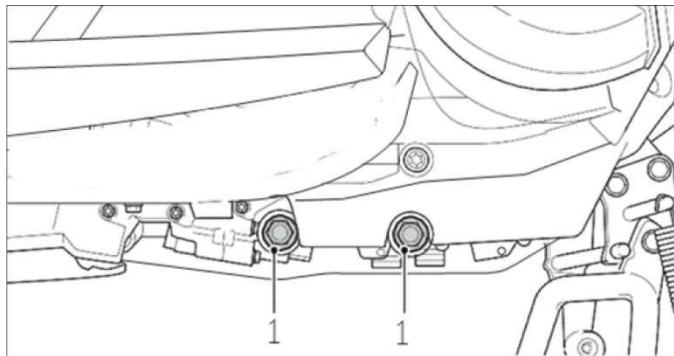
| Low Temperature Viscosity | High Temperature Viscosity | SAE Viscosity | Flowing speed mm ² /s | | |
|---------------------------|----------------------------|---------------|----------------------------------|------|------|
| | | 20 | 30 | 40 | 50 |
| SAE 30 | 12.5 | 9.3 | 12.5 | 16.3 | 21.9 |

⚠ Caution

To avoid using poor quality oil, please go to a KYMCO dealer for oil change.

Oil Change Period

1. Remove Oil Level Guide.
 - Remove Drain Bolt.
 - Drain all the oil. Warming up the engine before changing oil facilitates oil draining.
2. Clean Oil Screen and re-install it. Tighten Drain Bolt after wiping it clean.
3. Pour in new engine oil, with a total capacity of 2.6L (if the engine oil filter is included, then the replenishing volume shall be 2.7L).
4. Fully tighten the Oil Level Guide.
5. After warming up the engine, stop engine and wait for 1 minute; then verify oil level with Oil Level Guide.



1: Drain Bolt

Caution

- Suggest using KYMCO 4-stroke Exclusive Engine Oil.
- The following conditions may expedite oil deterioration. An early oil change is advised.
 - Riding on pebbled roads often.
 - Riding short distances often.
 - Idling often.
 - Riding in the cold area.
- When replenishing oil, make sure the oil level is not exceeding the upper limit mark.
- Do not mix-use oils of different brand, class or low quality ones; they may cause engine faults.
- Change oil while the engine is still hot; be careful not to burn your skin.

Oil Filter Element Tightening Torque:

11 N·m (110 kgf·cm)

Engine oil discharge bolt tightening torque:

9 N·m (90 kgf·cm)

Magnet Screw Tightening Torque:

28 N·m (280 kgf·cm)

Fehler! Verwenden Sie die Registerkarte 'Start', um 標題 1 dem Text zuzuweisen, der hier angezeigt werden soll.

Precautions on Oil Change

- Excessive and insufficient oil amount can both affect engine performance.
 - Excessive Oil - Increased friction resistance of moving parts in the engine, which lowers output power and increases engine temperature, leading to early deterioration of engine oil.
 - Insufficient Oil - Reduced oil supply to moving parts in the engine, therefore results in worn parts, parts ablation, etc.
- Do not mix-use oils of different brand, class or low quality ones; they may cause engine faults.
- KYMCO Exclusive Engine Oil contains additives (e.g. spirits, etc.) during the manufacturing process.
- Arbitrarily mixing additives bought from the market may deteriorate the oil, affect lubricating properties and shorten the service life of engine.

Spark Plug Check and Adjustment

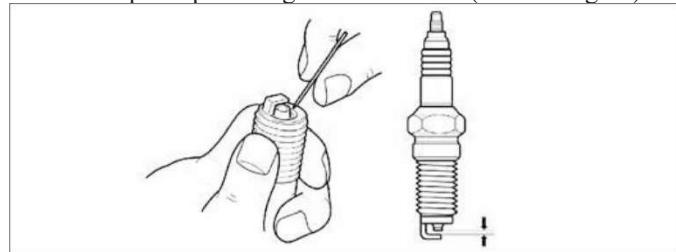
Dirty electrode or excessive gap can cause poor sparking.

Cleaning Method

Use a Spark Plug Cleaning Device is the best way If a Spark Plug Cleaning Device is not available, clean with a needle brush.

Adjustment

Normal Gap of Spark Plug is 0.7 ~ 0.8mm (See the Figure).



Specified Spark Plug:

(NGK) CR7E

⚠ Caution

- Engine is very hot after stopping, be careful not to get burnt.
- Tighten the plug by hand, followed by using a spark plug spanner.

Tightening Torque:

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100-140 kgf-cm (9.8-14 N·m)

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Check Coolant

For the sake of safety, check level of coolant before riding the vehicle. Replace the coolant as specified in Regular Maintenance Schedule.

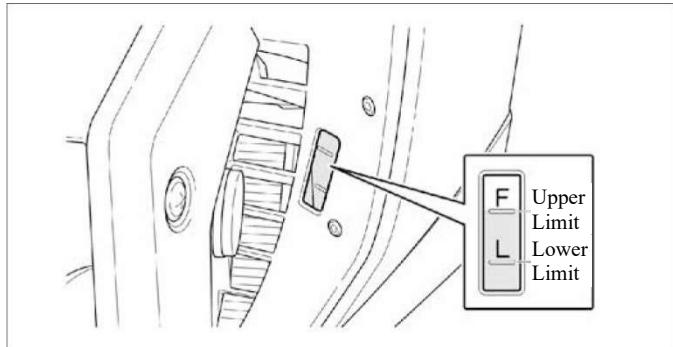
Check Level of Coolant

1. Park the vehicle on flat ground and brace it up with Main Stand.

⚠ Caution

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

2. Check level of Coolant via viewing window on the preserving radiator. 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 any leakage mark.
- ◆ Before riding the vehicle, check the fin and front protection screen of radiator for any foreign object. Foreign objects may reduce the cooling function or even cause vehicle or engine damage in worse conditions.

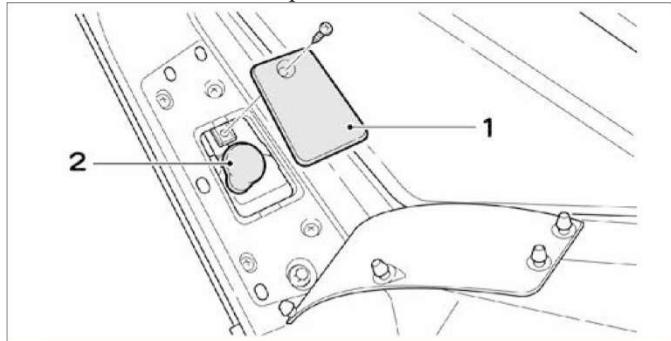
Check Coolant (Fill the Reserve Radiator)

1. Stand the vehicle upright on flat ground.
2. Open Reserve Radiator (remove screw 1 and cover 2), replenish water to Upper Limit. If level of coolant gets

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excessively low, something must be wrong. Visit a KYMCO dealer for check and repair.



1: Protection cover

2: Water tank cover

⚠ Caution

- Water temperature is very high after riding, do not open the cap of radiator.
- Use mineral water for mixing cooling liquid.
- Using poor quality coolant may shorten the service life of radiator. Please be careful.
- Replace coolant in the radiator every 10000km.
- Add proper amount (33%) of radiator additives to ensure performance of the cooling system.

⚠ Warning

If the vehicle is being used in freezing or frozen environments, coolants with higher density (45%) must be used to prevent damage to the coolant system due to freezing.

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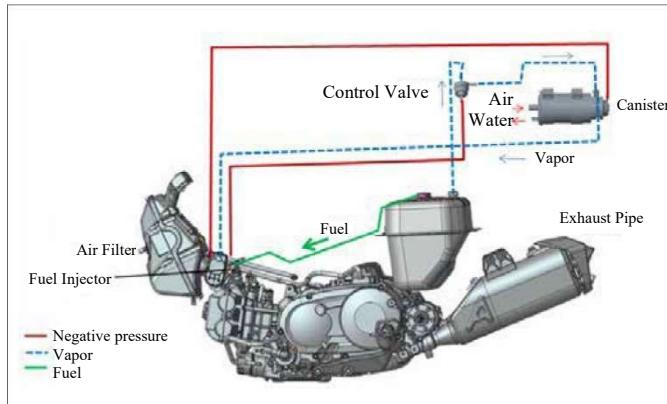
In case of Fault of Vehicle

- ◆ Go to a KYMCO dealer for check and repair if any fault occurs when riding the vehicle. Use only original parts for replacement.
- ◆ Check following items if engine does not start or engine stops when riding the vehicle:
 - Whether gasoline is sufficient.
 - Whether Dashboard Fuel Indicator approaches E. Replenish with E5 unleaded gasoline.
 - Whether proper method is used for starting the engine.
 - Others, whether any part is faulty.

Introduction to the exhaust emission control system

Exhaust Emission Control System

The exhaust emission control device of this model of the vehicle uses the fuel injection system to control the emission pollution effectively. Then, through the ternary catalyst converter in the exhaust system, the pollutants are transformed again, to achieve the result of ultra-low exhaust pollution.



⚠ Warning

The exhaust pipe is extremely hot. The vehicle must be parked in places where passersby and children cannot touch arbitrarily.

⚠ Caution

1. Ensure that the exhaust emission control system functions normally, please inspect and maintain your vehicle on a regular basis.
2. Ensure that the exhaust emission control system performs normally, please do not modify the vehicle arbitrarily so that the exhaust emission pollution will not be affected and incur fines.
3. If there are questions, please consult the KYMCO dealer or do inspections at scooter exhaust inspection and repairs stations recognized by the Environmental Protection Administration.

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Maintenance for the exhaust emissions control system

Method of operation:

1. For replacement of the filter for the air filter, please refer to method of operation for "air filter".
2. Engine oil: For better lubrication performance and smoother movements of the engine, please change the oil at 1000 km for a new vehicle, then every 5,000 km afterwards.
3. Gasoline: To prevent the performance of the ignition system from affecting the combustion efficiency, E5 unleaded gasoline must be used. The use of leaded gasoline is strictly prohibited. (Using leaded gasoline may lead to the premature aging and failure of the catalyst converter inside the exhaust pipe)
4. For standard values of relevant exhaust tests for injection-type exhaust concentrations, please visit the exhaust testing station or inspection station for adjustments or repairs.

Introduction to evaporative emission control system (E.E.C)

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

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

1. The emissions value of said vehicle model comply with the 7th-phase regulation standards. Please do not arbitrarily adjust the settings of the parameters.
2. Please do not remove or modify the vacuumed tube of the E.E.C device.
3. To reduce emission pollution, when the vehicle is idle, do not turn the throttle handle repeatedly.
4. Aside from regular maintenance, if visible abnormalities are found (such as poor ignition, emission of black smoke), visit the KYMCO dealer for inspection or repairs immediately.
5. Only use E5 unleaded gasoline to ensure the normal functioning of the pollution prevention parts.
6. Please refer to the items list of exhaust emission control system maintenance for maintenance.

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zuzuweisen, der hier angezeigt werden soll.

| | Keyless | TPMS |
|---------------------|--|---|
| Manufactuerv | Fames Technology Co., Ltd | Lihjoen Speed Meter Co., Ltd |
| CE | report  | report  |
| FCC | Receiver 2ABPM-S300068900T Control 2BBQI-S100394400 |  2AMA5-LJ-39600 |
| | |  021-170813 |
| KCC | | Receiver:  MSIP-CRM-LIJ-39660-LGC6-00 |
| | | Control:  MSIP-REM-LIJ-39650-LGC6-E00 |
| | Receiver:  CCAN21LP0680T6 | Receiver:  CCAL17LP0150T9 |
| | Control:  CCAN23LP0560T2 | Control:  CCAL17LP0140T6 |
| SRRC | | |
| | | |

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Specifications

CV3 - SBA1EA

| Item | Specifications |
|----------------------------|--------------------------|
| Engine Type | SBA1E |
| Displacement | 574.2c.c. |
| Cylinder diameter × Stroke | 70 * 74.6 |
| Compression Ratio | 11.2:1 |
| Gear Shifting Method | CVT |
| Clutch | Wet Centrifugal Type |
| Ignition Method | ECU Full Transistor Type |
| Starting Method | Self Start |
| Total Oil Content | 3.0L |
| Fuel type | E5 Unleaded Gasoline |
| Battery Capacity | 12V 11.8Ah |
| Spark Plug | NGK CR7E |

| Item | Specifications |
|--------------------------|----------------|
| Total Length | 2140 mm |
| Total Width | 800 mm |
| Total Height | 1485 mm |
| Axle Base | 1580 mm |
| Front wheel axle base | 465 mm |
| Front Tire | 110/70-13 |
| Rear Tire | 160/60R15 |
| Minimum revolving radius | 2550 mm |
| Vehicle Dry Weight | 282 kg |
| | |
| | |
| | |

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