QV3 User Manual

Dear Customer,

QUADRO VEHICLES thanks you for choosing this scooter, and welcomes you as a customer!
You can help to maintain the efficiency, performance and safety conditions of your scooter with careful maintenance, performed only by authorised QUADRO VEHICLES dealers or workshops.
Our technicians are committed to producing high quality scooters, the result of our extensive experience, to guarantee you the pleasure of safe driving over time.
Please read the Use and Maintenance Manual supplied with your QUADRO VEHICLES vehicle carefully, and make sure that all routine and extraordinary maintenance and any technical servicing is performed exclusively by the specialist staff from our Network of QUADRO VEHICLES Dealers.
To ensure the safety, reliability and value of your scooter, and to maintain the validity of the warranty, use only original QUADRO VEHICLES spare parts and recommended lubricants.

This Use and Maintenance Manual is an integral and essential part of your scooter.

Before you begin using the scooter, you must read this Use and Maintenance Manual carefully and follow all instructions it contains precisely.
The scooter must not be used by persons who have not thoroughly read and understood the instructions contained in this Use and Maintenance Manual.
This Use and Maintenance Manual contains simple and clear descriptions of the operations necessary to understand and use your scooter, as well as recommendations for safe use of your scooter in order to avoid personal injury.
It also describes the main maintenance operations and periodic checks which must be performed on the scooter.
The guarantee of correct operation and safety of the scooter strictly requires that all instructions contained in this Use and Maintenance Manual be applied.
This Use and Maintenance Manual must always be provided together with the scooter if it is resold, hired or lent out.
This Use and Maintenance Manual is an integral part of the scooter and it must therefore be kept in a safe place accessible to all persons who might need to consult it.
If the Use and Maintenance Manual is lost or damaged, request a new one from your dealer, giving them the scooter specifications.

The information contained in this Use and Maintenance Manual is provided as a guide only and may not be completely up to date due to modifications which may be made by Quadro Vehicles at any time for technical and/or commercial reasons, or else to comply with the legislation of the country in which the scooter is sold.

In order to learn and understand all features and functions of your scooter, you are advised to carefully read the following Use and Maintenance Manual supplied with the scooter.

SYMBOLS USED

The text of this publication contains a series of dedicated symbols used to highlight the main requirements and recommendations to be followed for keeping your scooter and its passengers safe.

DANGER to persons and to the scooter.

The following symbol indicates that it is prohibited to use/handle flammable substances near the vehicle, lubricate/touch moving mechanical parts or remove any guards on the scooter. It also invites you to wear appropriate clothing and protection at all times, both when driving and servicing the vehicle, particularly if there is a possibility of coming into contact with any parts which could cause burns, electric shocks or irritations.

WARNING which you must pay attention to in order not to risk damage to the scooter.

The following symbol invites you to use only original spare parts or parts specifically type-approved for QV3 and to avoid all improper modifications which may compromise the scooter's functions, consequently causing the warranty to become null and void

WARNING with an impact on the environment.

The following symbol invites you to dispose of all products (for example engine oil) and all mechanical and bodywork components in the disposal and recycling methods laid down by the statutory regulations in force in each country.

NOTE of a general nature.

CONTENTS

MAINTENANCE

EMERGENCY

INACTIVITY AND LAYING UP

TECHNICAL DATA

INDEX

SAFETY AND RECOMMENDATIONS 1

This chapter contains the main precautions you must take in order to drive your scooter as safely as possible.

POSITIONING INFORMATIVE STICKERS

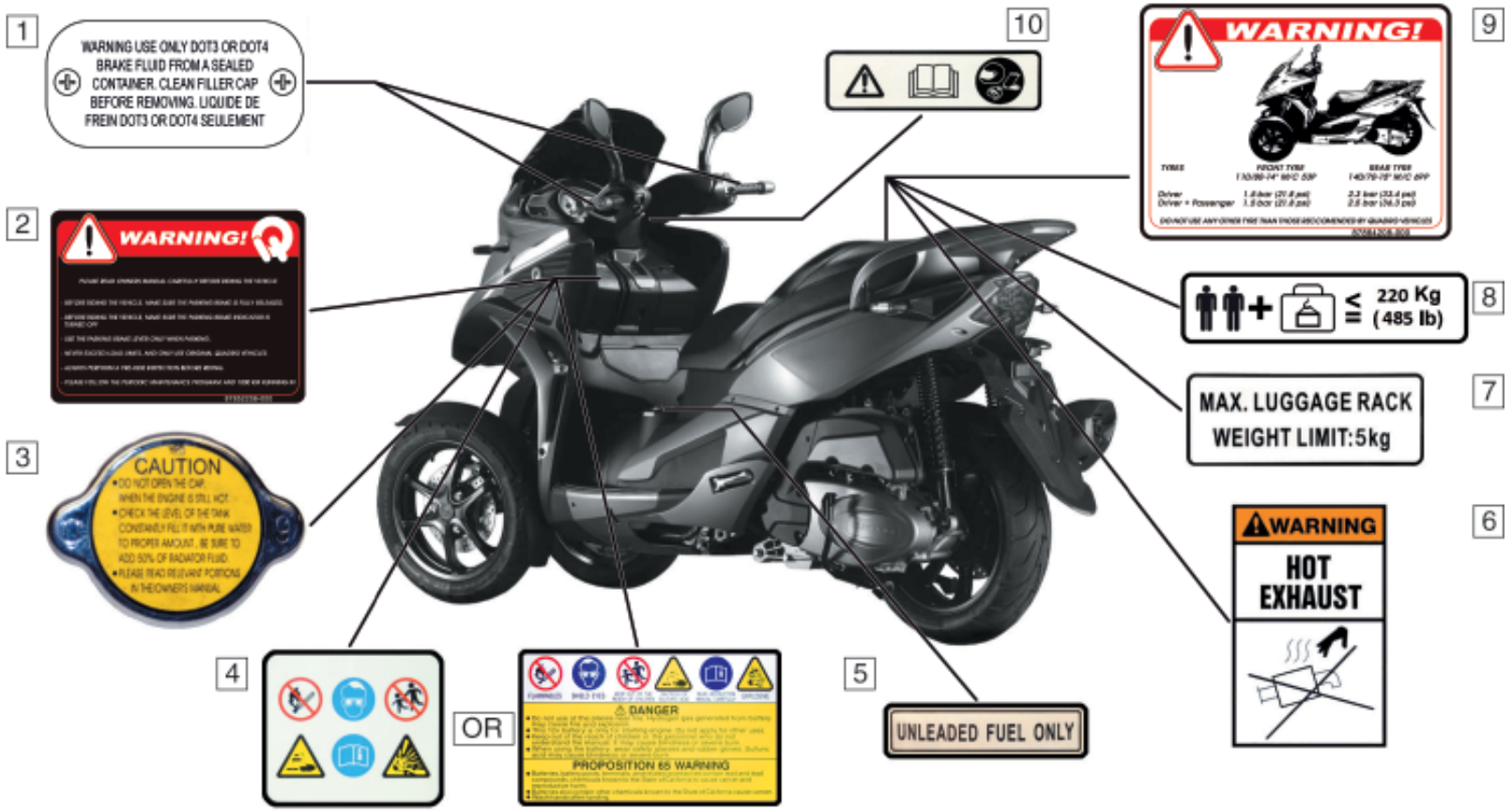

fig. 1

REFER TO FIGURE 01	TYPE OF STICKER	DESCRIPTION
1	Brake fluid	Clean the tank cap before use. Only use DOT3 or DOT4 brake fluid from a sealed container
2	General	- Carefully read the Use and Maintenance manual before setting off on the vehicle. - Before driving off on the vehicle, make sure you have released the parking brake completely. - Before driving off on the vehicle, make sure that the parking brake tell tale light is off. - Only use the parking brake when the vehicle is parked. - Never exceed the payload weight allowed and only use genuine Quadro Vehicles accessories. - Carry out a rough check of the functions before driving off. - Always carry out a scheduled servicing and check once you have reached 1000 km.
3	Radiator	- Do not open the radiator cap while the engine is still warm. - Check the level of the tank constantly and top up with a 50 - 50% water/coolant solution. - Read the quantities in the Maintenance manual.
4	Battery	- Do not use in places with naked flames present. The hydrogen gas generated by the battery could cause fires and explosions. - This 12V battery can only be used to start the motor. Do not use for other purposes. - Keep out of the reach of children and persons who have not learnt the information from the instruction manual. It may cause serious burns. - When touching the battery, wear protective goggles and rubber gloves. Sulphuric acid could cause blindness and serious burns. - The battery, the poles of the battery, the terminals and the relative components contain lead and lead compounds and chemical substances that could cause cancer and damage to the reproductive system. - The batteries contain other chemical substances that could cause cancer. - Wash your hands after handling the battery.
5	Fuel	Only use unleaded petrol with less than 10% ethanol and with a minimum octane number 95 (RON).
6	Exhaust terminal	High temperature exhaust terminal: danger of serious burns if touched.

REFER TO FIGURE 01	TYPE OF STICKER	DESCRIPTION		
7	Maximum weight on the rear rack/pillion grab rail	Maximum weight limit that can be transported on the rear rack/pillion grab handle. 5 kg		
8	Maximum payload	Do not exceed the maximum load limit allowed (220 kg - 485 lb)		
9	Tyres		Front tyre:	Rear tyre:
		Dimensions	110/80 - 14” M/C 53P	140/70 - 15” M/C 69P
		Pressure (just driver)	1.5 bar (21.8 psi)	2.3 bar (33.4 psi)
		Pressure (driver + passenger)	1.5 bar (21.8 psi)	2.5 bar (36.3 psi)
		Do not use other tyres that are not recommended by Quadro Vehicles.		
10	Safety	Carefully read the Use and Maintenance Manual and always use adequate technical clothing		

GENERAL RECOMMENDATIONS AND REQUIREMENTS

Using QV3 requires knowledge of driving techniques for two-/three-wheeled vehicles.
Ensure you have learnt and practised these techniques with a qualified driving instructor before using the scooter.

QV3 has been designed to offer the driver and passenger maximum comfort and safety, however this can only be obtained through responsible use of the scooter.

When necessary, we recommend practising the scooter functions away from heavily trafficked areas.

 ***Do not drive the vehicle if you do not have a valid driving licence.***

 ***Driving while under the influence of alcohol and drugs or medicaments, has a significant negative effect on reaction times, decision-making and driving abilities in general; it is also generally punished in accordance with the laws of the country in which you are driving.***

CLOTHING

The driver and passenger must wear clothing and safety equipment which meets applicable legislation in the country the vehicle is being driven in and protects them as far as possible in the case of an accident. We recommend always wearing a type-approved helmet, visor/goggles, gloves, overall and boots; you should always avoid any clothing or accessories which could get caught in the moving parts of the scooter and/or obstruct the driver's view.

While the scooter is being serviced, wear clothes and protective equipment that are suitable for the operation being carried out.

 ***Wear adequate technical clothing and safety equipment that is approved and certified and that guarantees optimal protection to the driver and passenger. You are recommended to always wear clothing that makes the driver visible to other road users.***

REFUELLING THE VEHICLE

While refuelling the scooter, always turn off the engine and check that there are no leaks in order to avoid breathing in petrol fumes; do not smoke, do not use naked flames and do not use mobile telephones, as these may all ignite the highly explosive fuel vapour, and check that there are no fuel leaks.

 ***After refuelling, ensure that the fuel filler cap is closed correctly.***

 ***Contact a doctor immediately if fuel is swallowed or comes into contact with eyes or skin.***

SAFE DRIVING

QV3 has been designed to transport the driver and a maximum of one passenger. Before driving you must perform a general check on the condition of the scooter, particularly the safety systems, lights and tyres; if you should notice any serious faults, consult an authorised Quadro Vehicles dealer immediately.

While driving, the driver must keep both hands on the handlebars and the passenger must hold onto the handles at the sides of the seat. Both the passenger and driver must keep both feet on the footrest fig. 2 - fig. 3 while the scooter is in motion. We therefore advise you do not transport passengers who are not able to keep their feet firmly planted on the footrest.

fig. 2

fig. 3

Both the driver and the passenger must sit in the right position that allows the driver to control all the functions of the vehicle and does not involve an unbalancing of the load that could jeopardise the stability of the scooter. Always transport the passenger on the rear of the seat.

Before setting off, allow the scooter to warm up and anyway do not push it to its maximum.

When starting off, release the brake lever and turn the throttle handle slowly in the direction shown by the arrow fig. 4; to decelerate, release the throttle handle accompanying it.

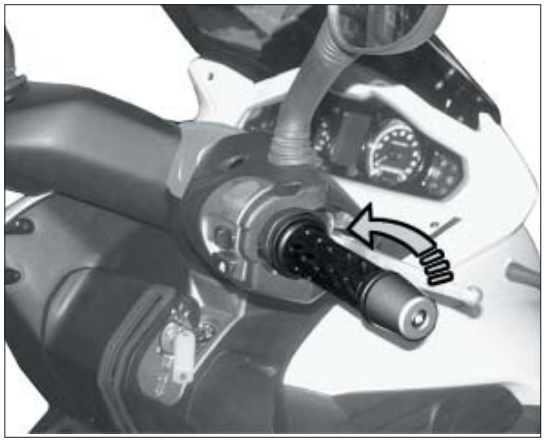

fig. 4

If you open and close the throttle handle abruptly it could cause the vehicle to race forward suddenly and a possible loss of vehicle control.

Do not attempt to start the vehicle with the throttle open as you might lose control of the scooter.

Comfortable braking is guaranteed by the gradual and simultaneous use of both the front and rear brake.

Should it be necessary to brake in an emergency, do not let the throttle go abruptly but accompany it as quickly as possible to the "gas closed" position.

During a long stretch downhill, release the throttle handle and brake gently intermittently. Using the brakes for a long time continuously could cause them to overheat thus losing braking efficiency.

In order to avoid possible collisions, you should:

- always make yourself visible to other drivers, ensuring you do not drive in their blind spots;
- use appropriate caution when going through road junctions;
- Use the direction indicators to signal a lane change or turning.

QV3 has been designed and developed primarily for use on roads; you should therefore avoid long and/or particularly uneven stretches of unpaved roads.

If the road surface is wet, drive very carefully and never brake abruptly as the wheels might lock as a prevention thereby increasing the scooter's stopping distance and time. Always drive over bumpier road surfaces such as tram rails or potholes slowly.

In case of strong gusts of wind, drive the vehicle at a moderate speed.

You should always adapt your speed on the basis of the current road/traffic/atmospheric conditions, and must never in any case exceed the applicable speed limit.

Do not touch any of the mechanical components, as these can reach high temperatures during operation (for example, the exhaust pipe).

Do not start the engine in closed and/or poorly ventilated environments.

 ***The use of the scooter in a closed and/or poorly ventilated environment increases the risk of carbon monoxide poisoning.***

WHEN AT A STANDSTILL

When preparing to get off the scooter, always check you have activated the HTS system lock. If you are carrying a passenger, get the him or her to get off the vehicle first.

 ***The scooter is equipped with a tilting system lock; for correct use when parking/stopping the scooter, carefully read the "HTS system Parking lever and Lock/ Release" section in the "Getting to Know Your Scooter" chapter.***

When parking your scooter, ensure it is left in a location where it is not likely to be hit by other traffic; it is also advisable not to park the scooter on steep slopes, uneven surfaces or on leaves, branches or other flammable materials, as the high temperature reached by some components could ignite them.

LOAD LIMITS

In order not to compromise the stability of the scooter, it is essential not to exceed the maximum permissible load, and to distribute this as uniformly as possible (refer to the "Technical Data" chapter). You must ensure that any loads are correctly positioned and/or restrained in the areas laid out for them. You should also limit your speed on the basis of the transported load.

Greater stability can be achieved by placing loads inside the compartments provided (the compartment under the seat and the object compartment). Furthermore it is advisable always to fix loads being transported in such a way that during the journey they do not move so as to unbalance the weights causing you to lose control of the vehicle.

 ***The sum of the weight of the driver, the passenger and the load transported must never exceed the maximum specified in chapter "Technical Data" of this Use and Maintenance Manual and shown on the rating plate in the compartment under the seat.***

 ***Never transport loads on the scooter handlebars.***

UNAUTHORISED MODIFICATIONS/ ACCESSORIES AND SPARE PARTS

Do not make any type of modification to the scooter (mechanical components or bodywork), and always use original Quadro Vehicles components/accessories in order not to compromise vehicle operation and driver/passenger safety. Never install accessories that require the electrical system to be modified.

 ***The use of non-original and/ or non-approved parts on your vehicle, even if purchased at authorised Quadro Vehicles dealers, may result in your warranty lapsing and/or scooter malfunctions.***

 ***Never drive the scooter with removed and/or damaged parts.***

Rims and tyres are the point where the scooter is in contact with the road surface. The use of rims and tyres with specifications different from those indicated in this Use and Maintenance Manual or not approved could cause instability or a loss of control of the vehicle.

RESPONSIBILITIES AND LIMITS OF USE

Improper use of the scooter or any work performed on it which does not conform to the indications given in this Use and Maintenance Manual shall relieve the manufacturer of any responsibility for vehicle safety and/or operation.

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GETTING TO KNOW YOUR SCOOTER 2

This chapter describes the functions and systems your QV3 is equipped with.

Carefully reading the following pages will provide you with the knowledge to make the most of your scooter's potential.

COMPONENT LOCATION

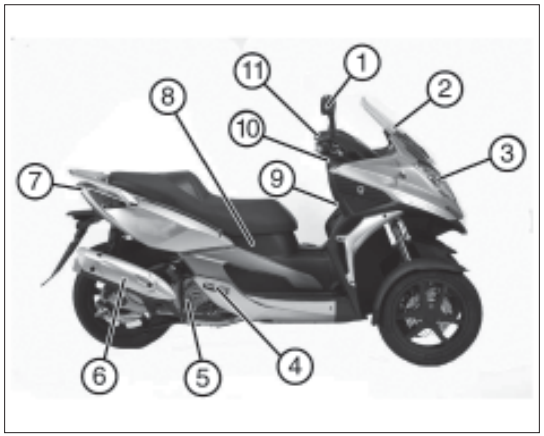


fig. 1

1 - Right-hand mirror
2 - Windscreen
3 - Head light cluster
4 - Right-hand passenger footrest
5 - Engine oil cap/dipstick
6 - Silencer
7 - Tail light cluster
8 - Spark plug
9 - Front box
10 - Ignition key
11 - Right-hand handlebar mounted controls

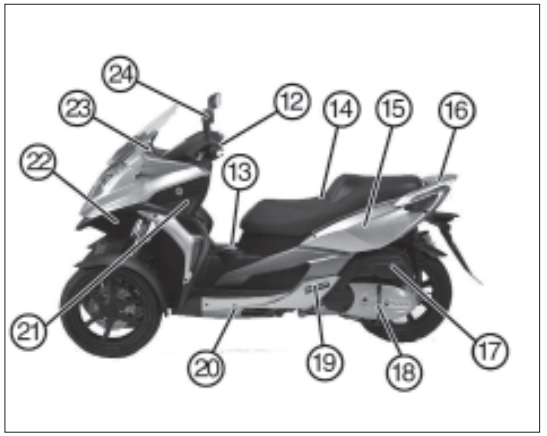


fig. 2

12 - Left-hand handlebar mounted controls
13 - Fuel cap
14 - Seat
15 - Fuses
16 - Carrier
17 - Air filter
18 - Stand
19 - Left-hand passenger foot rest
20 - Coolant tank
21 - Battery
22 - Horn
23 - Instrument panel
24 - Left-hand mirror

HANDLEBAR CONTROLS, LEFT-HAND SIDE

The controls on the left-hand side of the handlebar include: full beam headlights, flasher, turn signals, horn.

Dipped headlights

With the key in position and selector A fig. 3 in position 0, the dipped headlights are turned on; this is indicated by the following light on the instrument panel: .

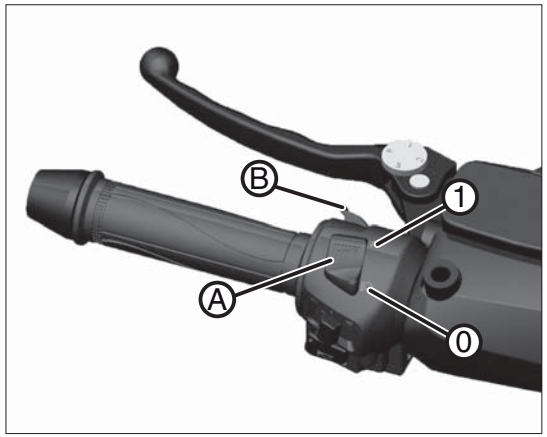


fig. 3

The dipped headlights always stay on.

Full-beam headlights

With the key in position , turn selector A fig. 3 to position 1 in order to turn on the full beam headlights; this is indicated by the following light on the instrument panel: .

Flasher

With the key in position , you can flash the lights by pressing button B fig. 3.

Turn signals

With the key in position , place selector A fig. 4 in position 1 or position 2 to operate the right or left turn signals (momentary positions). The left or right turn signal indicator light will light up on the instrument panel depending on the selector position.

To deactivate the turn signals, press button A fig. 4 on the selector.

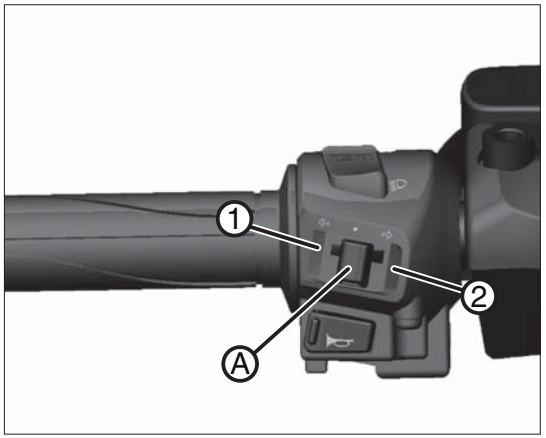


fig. 4

Horn

To sound the horn, press and hold down button A fig. 5.

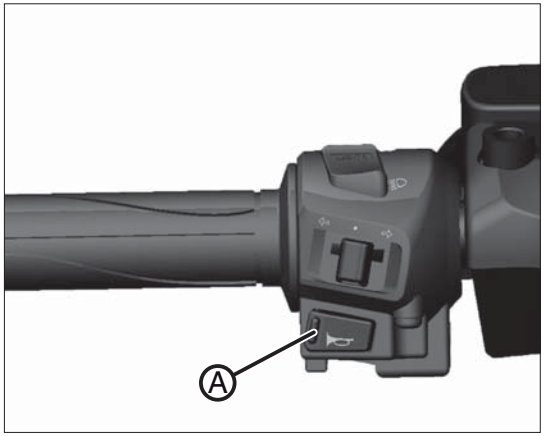


fig. 5

HANDLEBAR CONTROLS, RIGHT-HAND SIDE

The controls on the right-hand side of the handlebar include: engine stop command, hazard lights and engine start command.

Hazard warning lights

To activate the hazard lights, place selector A fig. 6 in position 1. The indicator light ⚠ on the instrument panel comes on.
To switch them off, return the selector to its initial position.

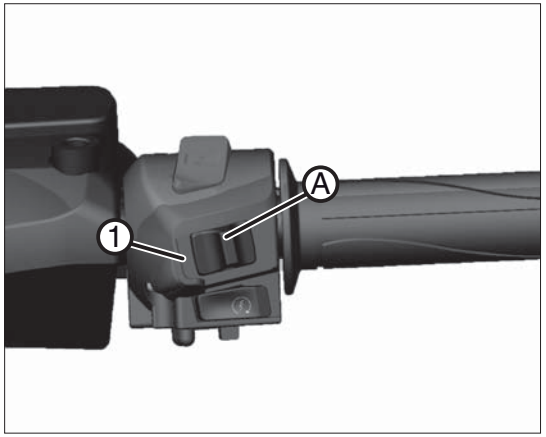


fig. 6

Follow the highway code in the country in which you are driving when using the hazard lights.

KEYS

The scooter is supplied with two identical keys fig. 7, that allow the vehicle to started, turn on the steering lock, open the seat and open the fuel cap.

fig. 7

The keys are accompanied by a plate showing their code.
If you need to make a duplicate of the keys, contact an authorized Quadro Vehicles dealership and provide the plate with the code as well as the key.

We recommend keeping the spare key in a safe place so it does not get lost.

STEERING LOCK

Proceed as follows to engage the steering lock:

- with the handlebar straight ahead, move the parking lever 1 fig. 8 downwards;
- turn the handlebar 2 fig. 8 leftwards;
- press and turn the key to the left to the 🔒 position;
- remove the key.

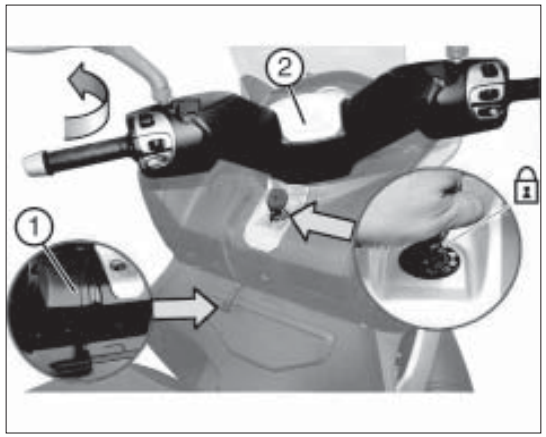


fig. 8

Lever 1 fig. 8 remains in the locked position until the steering lock is unlocked and the handlebar is straightened up.

The steering lock does not engage automatically when the engine is shut off.

HTS (Hydraulic Tilting System) LOCK/RELEASE PARKING LEVER

The scooter is equipped with an oleo-pneumatic front suspension system, known as HTS (Hydraulic Tilting System).
This system allows the scooter to tilt like normal two-wheeled scooters, while at the same time providing the safety of a three-wheeled vehicle due to the grip provided by all three wheels on the ground.

Lever A fig. 9, located on the leg shield, locks / releases the front HTS tilting, consequently enabling the parking brake engagement/release.

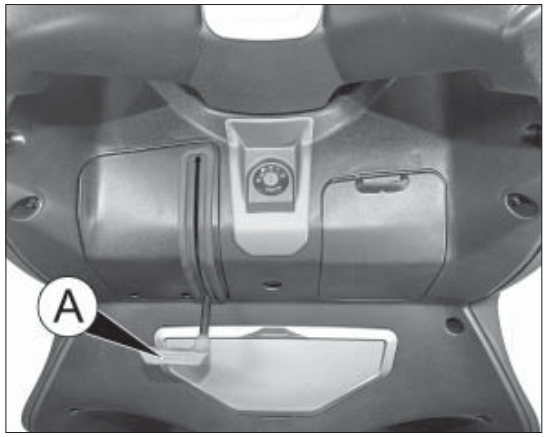


fig. 9

Tilting lock/Parking brake lock

Placing lever A fig. 10 in the 0 position locks the tilting lock, preventing the scooter from tilting and at the same time engages the parking brake.

Do not drive with the tilting locking engaged.

A safety device limits the engine speed when the tilting lock is engaged.

Tilting release/Parking brake release

Placing lever A fig. 10 in the 1 position releases the tilting lock, allowing the scooter to tilt and at the same time releases the parking brake.

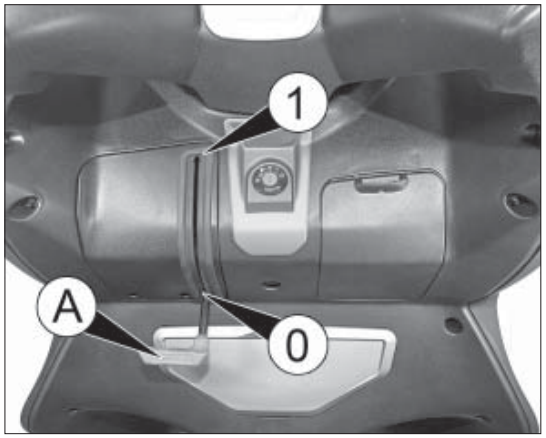


fig. 10

TEMPORARILY STOPPING THE SCOOTER (WITH DRIVER ON BOARD)

If you simply bring the scooter to a halt, remaining seated on and therefore in control of the vehicle, it is not necessary to insert the tilting lock.
The system may nevertheless be required depending on the road conditions (e.g. pulling over on slopes etc.).

If you must drive with the tilting lock engaged, it is obligatory to place one or both feet on the ground and keep one of the brake commands pressed (integrated brake pedal or lever).

STOPPING THE SCOOTER

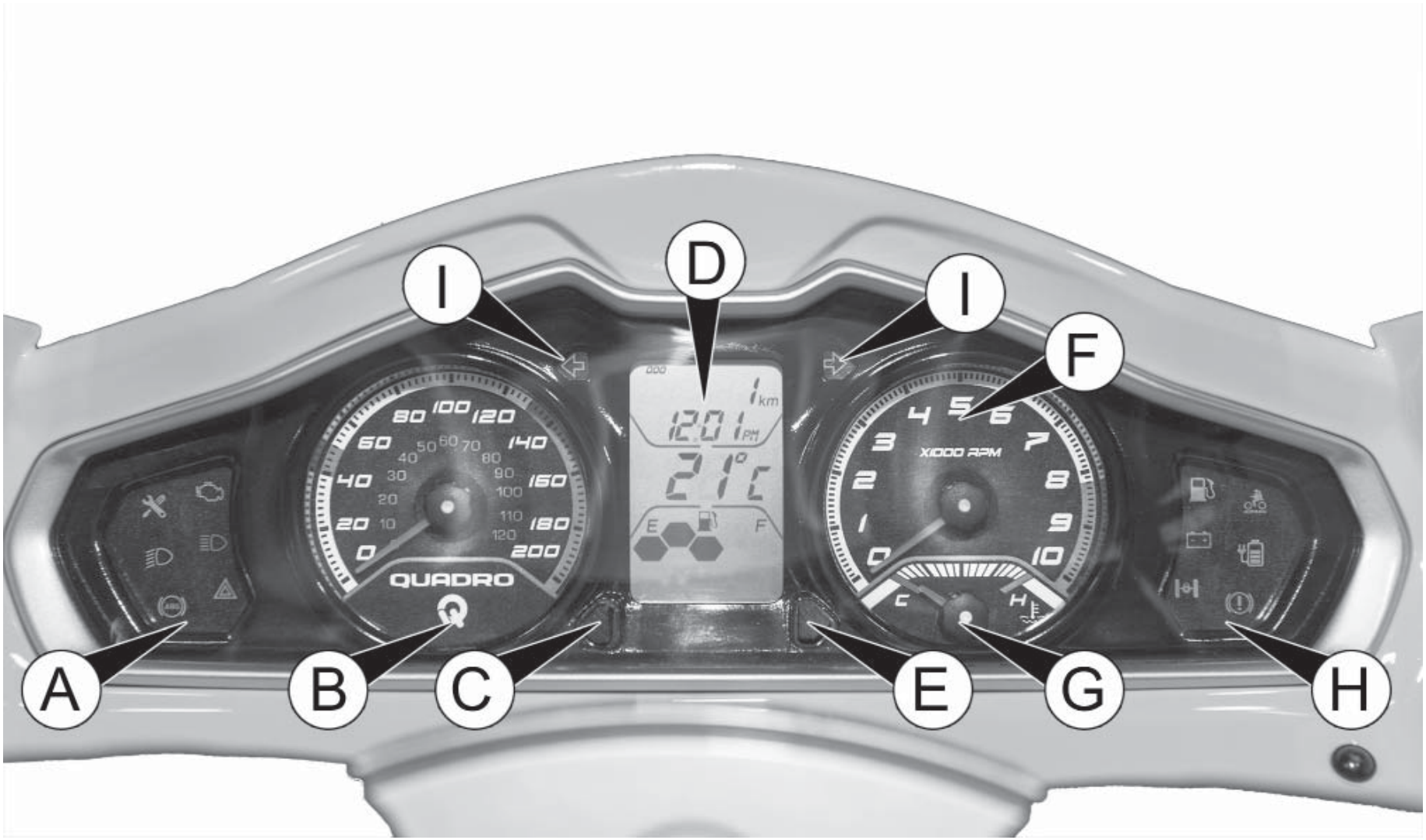
If the scooter is stopped and left by the driver, they must:

- while the scooter is on the stand;
- engage the tilting lock;
- engage the steering lock.

You must always follow the highway code of the country in which you are driving when parking the scooter.

Engage the tilting lock only when the vehicle is in a vertical position.

INSTRUMENT PANEL



A - Left group of indicator lights
B - Speedometer
C - MODE selection button
D - On-board computer display
E - ADJ selection button
F - Tachometer
G - Engine coolant temperature gauge
H - Right group of indicator lights
I - Turn signals

ON-BOARD COMPUTER

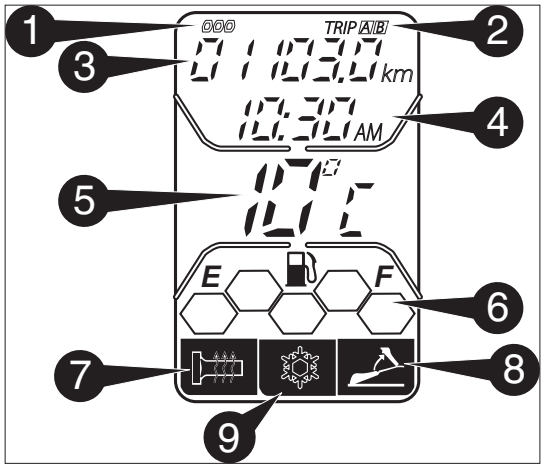


fig. 11

1 - Odometer function (total mileage)
2 - Trip Computer function (A, B)
3 - Mileage indicator (total, trip A, trip B)
4 - Clock (AM, PM mode)
5 - Temperature indicator (°C, °F)
6 - Fuel level gauge
7 - Indicator light not active on this model
8 - Seat open warning light
9 - Low temperature (ice hazard) warning light

Trip Computer function

Press the ADJ button to view the odometer, Trip A, Trip B function.

Each press of the ADJ button selects the next function.

Trip Computer Reset

Select the required Trip Computer function (A or B) and hold down the ADJ selection button for around 3 seconds.

Clock setting

In Odometer mode, press and hold the MODE and ADJ selection buttons together for around 2 seconds.

The hours will begin to flash.

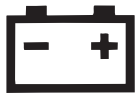
In order to set the clock:
1. press the ADJ selection button to increase the hours;
2. press the MODE selection button to change to set the minutes;
3. press the ADJ selection button to increase the minutes;
4. press the MODE + ADJ selection buttons to exit time setting mode.

Air temperature unit of measurement

In Odometer mode, press the MODE selection button to switch between °C and °F.

Each press of the MODE button selects the next unit of measurement.

INDICATOR LIGHTS ON THE INSTRUMENT PANEL

SYMBOL	DESCRIPTION
	**Hazard warning lights** MEANING This indicator light turns on when the hazard lights are activated.
	**Battery** MEANING With the key in the position, this warning light turns on when the battery voltage falls below 12V. WHAT TO DO Recharge the battery, or replace it if necessary.
	**Tilting lock** MEANING With the key in the position, this warning light comes on when the front tilting lock is engaged, that is when the HTS is disabled.
	**Parking brake** MEANING This warning light turns on when the parking brake is engaged with the key in the position. WHAT TO DO Return the key to the position and perform the parking brake release procedure, as indicated in the “HTS system Parking lever and Lock/Release” section in this chapter.

SYMBOL	DESCRIPTION
	**Scheduled Maintenance** MEANING With the key in the position, this indicator light turns on to notify the driver that it is necessary to service the vehicle. WHAT TO DO Take your scooter to an authorised Quadro Vehicles dealer, who will service it following the Planned Maintenance Plan and then reset the indicator light.
	**Engine malfunction** MEANING The warning light detects the faults in the engine monitoring system. The warning light stays on with the ignition key in position and engine off: this is normal. WHAT TO DO If the warning light stays on after starting the engine, consult an authorised Quadro Vehicles dealer. If the warning light stays off with the ignition key in position and engine off, consult an authorised Quadro Vehicles dealer.
	**Device Charging** MEANING With the key in the position, this indicator light turns on to notify the driver that one or both auxiliary electrical sockets are connected to a device (e.g. mobile phone).

SYMBOL	DESCRIPTION
	**Fuel reserve** MEANING With the key in the position, this indicator light turns on to notify the driver that it is necessary to refuel as soon as possible.
	**Dipped headlights** MEANING With the key in the position, this indicator light turns on when the dipped headlights are turned on.
	**Turn signals** MEANING With the key in the position, these indicator lights turn on when the turn signals (left or right) are activated
	**Full-beam headlights** MEANING With the key in the position, this indicator light turns on when the full-beam headlights are turned on.

FRONT BRAKE LEVERS

The front left-hand brake lever works both the front and rear brakes (combined brake), alternatively to the combined brake pedal.
The front right-hand lever works only the front brakes.

Adjusting the front brake lever

Holding the brake lever forwards, turn selector 1 fig. 12 selecting one of the four positions indicated.

Selector	Lever position
1	Close
2	⇑
3	⇓
4	Far

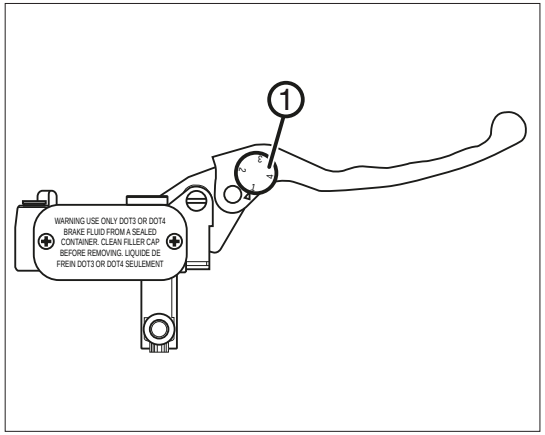


fig. 12

UNIFIED BRAKE PEDAL

The integrated brake pedal A fig.13 is located on the right-hand driver footrest.

The integrated brake pedal can be used as an alternative to the left-hand brake lever, as it acts on both the front and rear brakes.

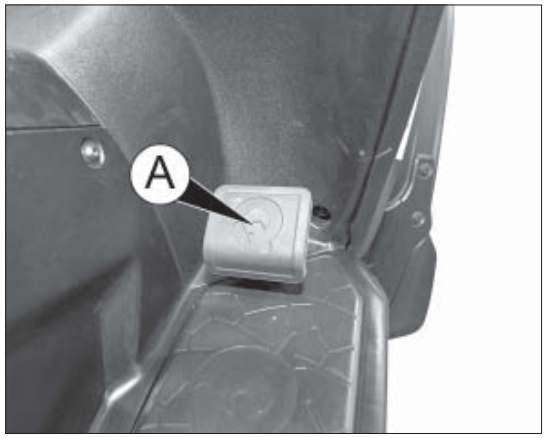


fig. 13

REAR-VIEW MIRRORS

To adjust the rear-view mirrors fig. 14, move them manually to the required position.

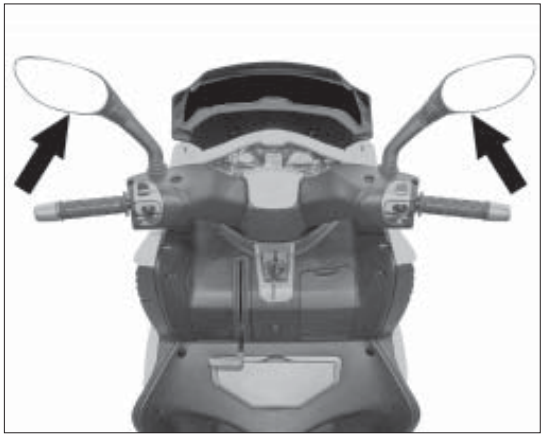


fig. 14

REAR FOOTRESTS

To open it, press the footrest A fig. 15; the footrest will move from position 0 to position 1.

To close the footrest, push it by the outside part and press it until you hear it click into place.

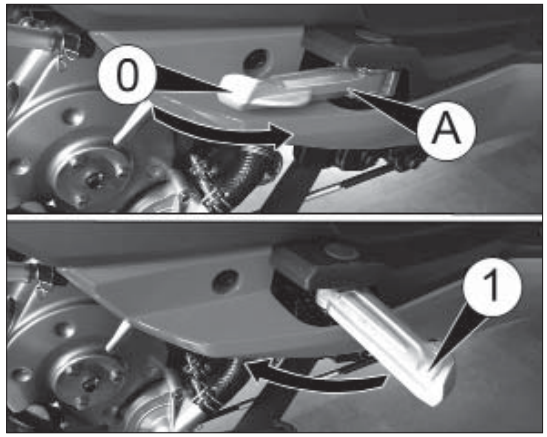


fig. 15

CENTRAL STAND

Press the stand bracket A fig. 16 with your foot and at the same time pull the vehicle backwards until it is on its stand.

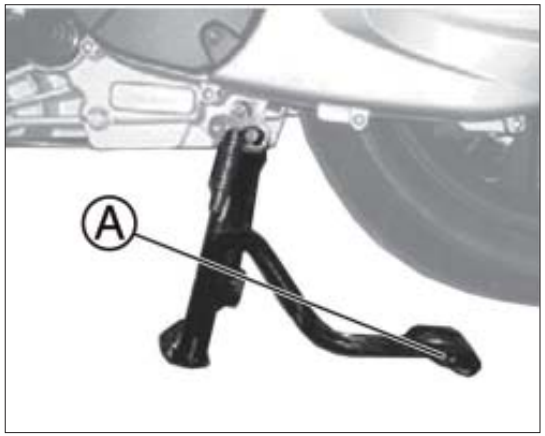


fig. 16

Do not sit on the vehicle while the stand is on the ground.

Make sure the vehicle is stable, only park on stable ground.

EQUIPMENT

Storage compartments

QV3 is equipped with two storage compartments A and B fig. 17, both located in the leg shield.
To access the upper storage compartment A fig. 17, pull the handle.
To access the lower storage compartment B fig. 17, press the door.

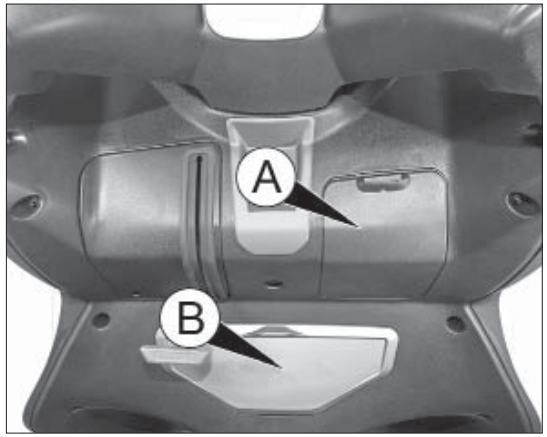


fig. 17

Ensure that the storage compartments are correctly closed at all times while driving.

Never leave objects unattended in the storage compartments.

Storage compartment below seat

To access the storage compartment below the seat fig. 18:

- turn the key to the right to position 1;
- raise the seat to access the compartment below it.

To reclose the seat, accompany it until it is resting on the latch, then push until you hear it click closed.

fig. 18

If the seat is not properly closed, this will be displayed by the on-board computer. For further information, read the "On-board Computer" section in this chapter.

Auxiliary power sockets

QV3 is equipped with one 12V auxiliary power socket.

The auxiliary power socket A fig. 19 is located inside the storage compartment at the bottom of the leg shield.

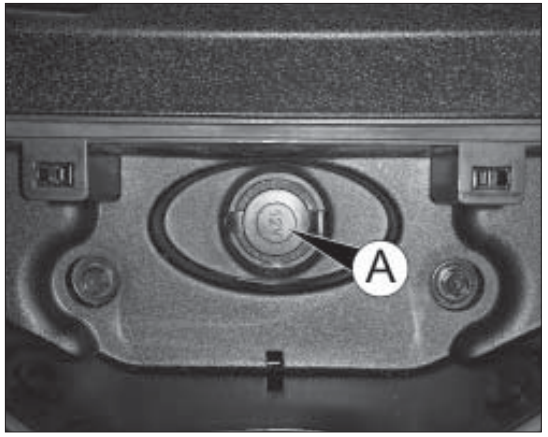


fig. 19

Only plug devices requiring a 12V electrical supply into the auxiliary power sockets.

USE 3

This chapter describes the main operations which must be performed and some tips to adopt when preparing to drive the QV3.

IGNITION KEY

The ignition key fig. 1 is located in the upper part of the leg shield. The key can be turned to the following positions, as required:

1 - Steering lock (requires the key to be pressed).
2 - OFF.
3 - ON.
4 - Seat opening.

fig. 1

If you are not able to start the scooter, consult an authorised Quadro Vehicles dealer.

ENGINE START

Proceed as follows to start the scooter:

- ensure that button A Fig. 2 is in position 0;
- when on, release the tilting lock;
- turn the key to the position;
- hold the accelerator at the idle position;
- pull one of the two brake levers on the handlebar (or press the brake pedal) and press the starter button B fig. 2.

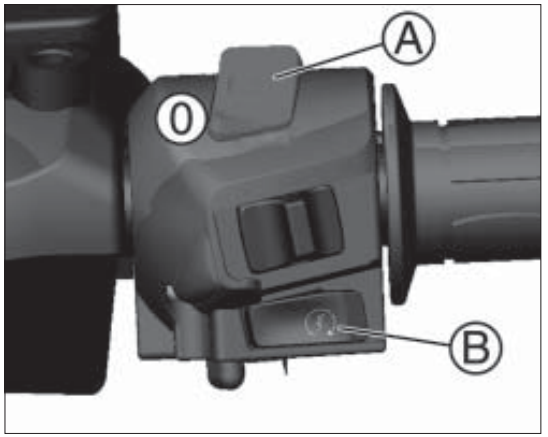


fig. 2

Never start the scooter with the accelerator control fully open, as this could cause a loss of control of the vehicle with the risk of property damage and/or injuries.

After starting the scooter, limit its speed for the first few minutes of use.

Correctly warming up the engine limits emissions and reduces fuel consumption.

To avoid possible damage to the engine, avoid demanding high performance at low temperatures, and avoid prolonged periods at high load. Do not switch off the scooter after demanding driving (for example at maximum speed), but rather leave it idling for a few seconds.

ENGINE STOP

You can switch off the engine as follows, always and only with the scooter stopped:

1. press the stop engine command A fig. 3 in position 1, leaving the ignition key in position;

In this condition, the engine cannot be started but the instrument panel will still turn on.

2. turn the ignition key to the position ;

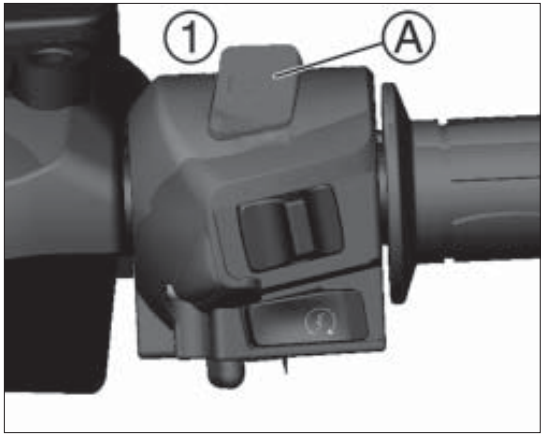


fig. 3

Never turn the key in the position while driving.

PARKING

When it is necessary to park the scooter, as well as performing the engine stop procedure described in the previous section, place it on the stand, lock the tilting system and engage the steering lock.

RUNNING IN

The first 1000 km are the most important for the life of the scooter. Correct running in helps to maintain vehicle performance and allows the mechanical parts to adapt to each other without friction.

During this stage, it is advisable not to demand excessive performance from the engine and to minimise the loads transported.

Once you have reached 1000 km, you must perform the checks provided for in the maintenance plan, listed in the “Planned Maintenance Plan” section in the “Maintenance” chapter.

REFUELLING

Proceed as follows to access the fuel filler cap:

- open the flap 1 fig. 4;
- insert the main switch in the lock and turn it in a counterclockwise direction;
- remove the fuel filler cap 2 fig. 4.

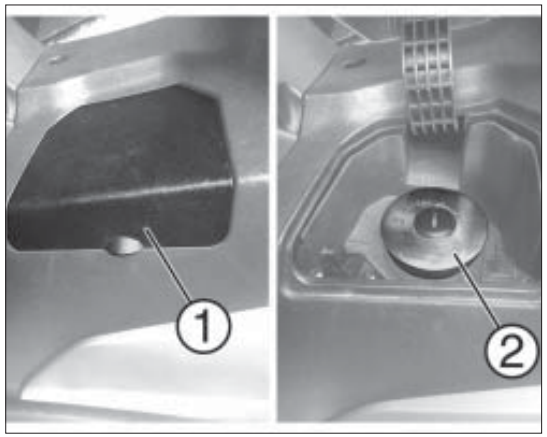


fig. 4

Always turn the engine off when refuelling. Petrol is highly flammable. Never smoke or use naked flames while refuelling, and avoid breathing in the fuel vapours.

Use only unleaded petrol with min. 95 RON octane rating.

Only use unleaded petrol with less than 10% ethanol and less than 5% methanol.

After refuelling, ensure that the fuel filler cap is closed correctly.

Do not allow fuel to come into contact with the plastic components of the vehicle to ensure they are not damaged. If this should occur, clean it off as soon as possible using a rag.

During refuelling take care to prevent water or other substances from entering the tank.

If after refuelling you encounter faults in the functioning of the scooter, switch the engine off immediately and contact an authorised Quadro Vehicles dealership.

QV3 is fitted with a catalytic converter that has the job of reducing polluting emissions by performing a number of chemical reactions. If the fuel used has different specifications from those shown above, the parts making up the catalytic converter could be damaged thereby reducing its effectiveness and efficiency and losing the characteristics for which it was type-approved.

Never use leaded petrol that might contaminate the metals of the catalytic converter and damage it.

MAINTENANCE 4

This chapter specifies the maintenance procedures and checks which must be performed by specialised personnel in order to maintain the performance of QV3 and keep it in good working order, as well as ensuring it retains its original appearance.

GENERAL ISSUES

Ensuring you always follow the scheduled and extraordinary maintenance instructions in this Use and Maintenance Manual will guarantee perfect operation and a long lifetime for your scooter.

The maintenance operations specified in this Use and Maintenance Manual must only be performed by expert personnel; if the replacement, maintenance and/or inspection procedure is not given, it may only be performed by authorised Quadro Vehicles dealers or service centres.

All maintenance operations must be carried out with the engine off and the tilting locked.

Ensure you perform all maintenance operations at the specified intervals. Failure to perform services could void the warranty as well as damaging the scooter.

CHECKS

You should have the following checks performed periodically, as well as before any long trips:

- Coolant level
- Oil level
- Tyre pressure and wear
- Brake fluid level
- Front/rear lights

With an eye to protecting and respecting the environment, you are advised to dispose of all the waste resulting from the maintenance of the vehicle in accordance with the recycling methods required by the laws of each country, currently in force.

LEVEL CHECK

Engine oil

Switch the engine off and wait 3 minutes before checking the engine oil level.

Position the vehicle on the central stand on flat ground.

- unscrew the cap/dipstick A Fig. 1 and clean it with a clean cloth;
- screw back the cap/dipstick A fig. 1;
- unscrew cap/dipstick A fig. 1 again and check that the oil level has reached the intermediate level between the MIN and MAX, as indicated in fig. 2.

It is recommended you have an authorised Quadro Vehicles dealer or service centre perform this check.

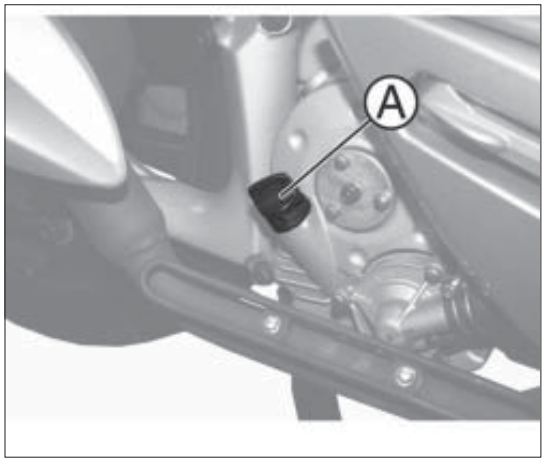


fig. 1

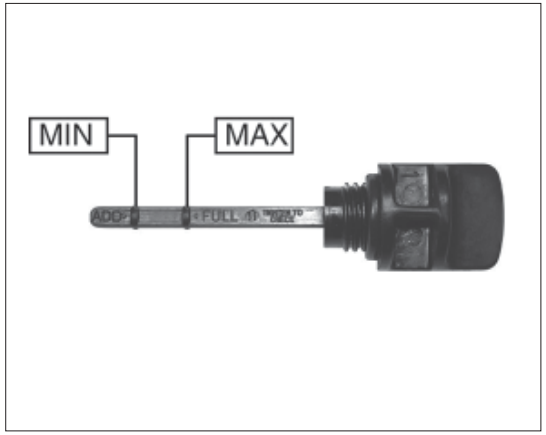


fig. 2

Do not operate the scooter with a low oil level or dirty oil, as this could cause irreparable damage to the engine.

Engine coolant

This check must be performed with the engine cold and the scooter on a level surface.

Perform this check on a level surface (0°), with the scooter vertical (90° with respect to the ground).

If you find you regularly need to top up the coolant, have the cooling system inspected by an authorised Quadro Vehicles dealer or service centre.

To ensure the engine is functioning properly make sure that the radiator grille is always clean.

The coolant system has an electric fan (that cuts in at a certain temperature) to guarantee proper functioning in all running conditions.
For the engine to run correctly, the temperature indicator A fig. 3 must remain below the red area. If the indicator moves into the red area, stop the engine immediately, let it cool down and check the coolant level. If it is irregular, please contact an authorised Quadro Vehicles dealer.

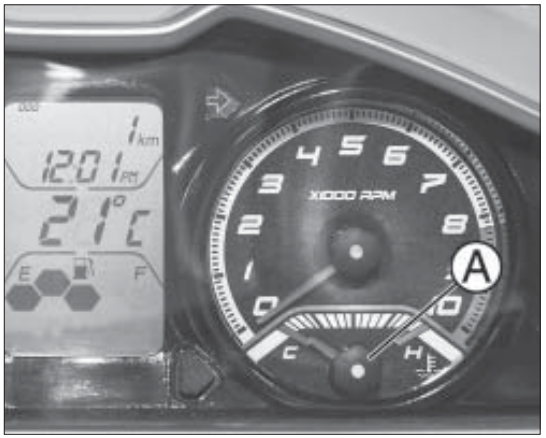


fig. 3

While running make sure that the level does not exceed the maximum level to prevent the liquid overflowing.
Let the engine cool before carrying out any operation.

Proceed as follows to check the liquid:

- position the vehicle on the central stand on flat ground;
- check through the inspection hole fig. 4, under the floor that the liquid is at the correct level indicated by the reference Top.

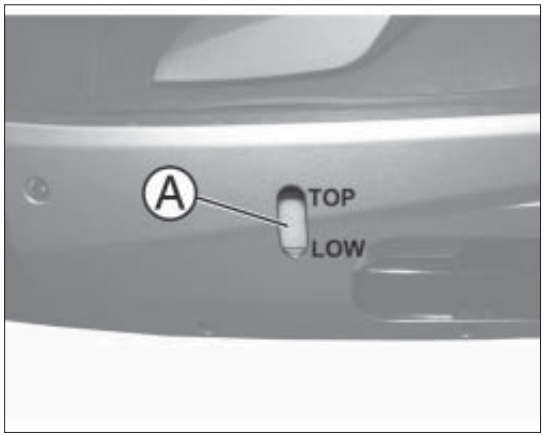


fig. 4

When the level of the liquid is below the LOW reference mark, lift the foot rest mat 2 fig. 5, remove cap 1 fig. 5 of the tank 3 fig. 5 and top up if necessary when the engine is cold.

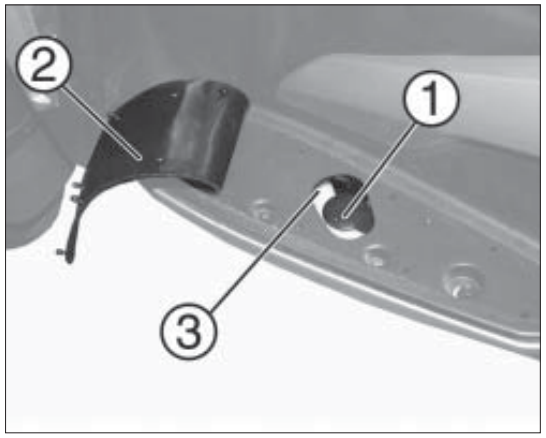


fig. 5

To avoid getting burnt, do not unscrew the expansion tank cap when the engine is still hot.

When topping up, use only coolant with the specifications listed in the "Products" section in the "Technical Data" chapter.

Brake oil

The level of the brake fluid must be checked through inspection holes on the tanks, located on the right- and left-hand sides of the handlebar.
Make sure that the level never drops below the notch beneath the letter L fig. 6 on the tank.

fig. 6

The tank on the left-hand handlebar refers to the total (front/ rear) brake system, while the tank on the right-hand side refers to the front brake system.

Whenever the brake fluid level is at or below the minimum level, have an authorised Quadro Vehicles dealer or service centre top it up.

AIR FILTER

See an authorised Quadro Vehicles dealer or service centre to have the air filter replaced.

CLEANING

To keep the scooter looking sharp, regular cleaning is recommended. In addition to this always wash it when you have travelled over unmade roads or used the vehicle in very dusty environments.
When cleaning the scooter pay the greatest attention to the warnings given in this chapter. Non compliance with certain instructions could nullify the warranty.

Ensure that the engine is off before cleaning the scooter.
Proceed as follows to clean the scooter:

- remove any dirt from the underbody using a sponge with a mixture of water and neutral detergent specifically for washing vehicle bodywork;
- rinse thoroughly with water in order to remove any detergent residue;
- dry the surfaces with a chamois leather being particularly careful to get at the hidden places where water might accumulate;
- clean the plastic parts with a solution of a special detergent and water, applying it with a soft cloth, then rinse with clean water;
- wash the seat with a special product for the cleaning and care of leather;
- wash the rims with a degreasing product in the ways and with the acting times indicated by the manufacturer.

For a better shine of the painted parts, use non-abrasive polishing products for bodywork.

When washing the mechanical parts of the engine, use specific degreasing products, following the manufacturer's instructions

Never use harsh chemical products on the plastic components (fairing, panels, windscreen, headlight lenses etc.)

Do not use sponges or cloths which have come into contact with abrasive chemical products, solvents, thinners, rust treatments, brake fluid, antifreeze etc.

Do not use strong detergents or any type of harsh chemical product (degreasers etc.) for cleaning the windscreen.
Only use soft sponges in order to avoid removing the anti-scratch/ anti-reflective treatment.

While washing, braking surfaces come into contact with water and degreasing products: this involves a temporary fall in braking power and increase in braking distance.
In order to restore normal operation, drive the scooter cautiously and activate the brakes numerous times.

If you are using a pressure washer to clean the scooter, take care not to direct the water jet onto the electrical and/or mechanical parts.

If there are chrome-plated parts, use specific products for treating and cleaning chromium.

The use of non-appropriate products or washing methods could cause surfaces to lose their shine.

Clean the vehicle more frequently if you regularly drive on gritted/salted roads.

Use cold water to remove salt as hot water increases the corrosive effect of it.

When cleaning the vehicle it is important to do little things to respect the environment. So always use biodegradable products and spray solutions that do not contain CFCs (chlorofluorocarbons).

Dispose of the products for cleaning the scooter in accordance with the recycling methods laid down by the statutory regulations in force in each country.

PERIODICAL CHECKS

Every 1000 km, and in any case before long journeys, check and, if necessary, set right the following:

- engine coolant level;
- brake fluid level;
- tyre pressure and wear;
- correct operation of external lighting;
- engine oil level.

DEMANDING USE / PROLONGED INACTIVITY

Whenever the scooter is used in one of the following situations (or in the event of prolonged inactivity):

- use on dusty roads;
- use of the scooter with external temperatures below 0 °C.

Perform the following checks:

- check condition and wear of brake pads (front and rear);
- perform a visual inspection of the condition of: engine, front and rear suspension, pipes and hoses, sleeves, parking brake cable;
- check the battery charge level;
- check the oil and oil filter and replace if necessary.

SCHEDULED MAINTENANCE

In order to guarantee a long lifetime for the scooter under normal conditions, it is important to perform correct maintenance, respecting the checks and operations to be performed at time or mileage intervals as specified in the maintenance plan.
The Programmed Maintenance service is performed by the Quadro Vehicles service network or qualified workshops.
Any operations outside of the Maintenance Plan will only be performed with your express consent.

PLANNED MAINTENANCE PLAN

The annual checks must be performed every 12 months, unless the mileage interval is reached first.
Check (cleaning and replacing if necessary) the air filter element and the CVT case air filter more frequently if the scooter is used in very humid or dusty environments.

No.	Part	Operation to be carried out	Odometer reading (km x 1000)									Annual checks	→
			1	5	10	15	20	25	30	35	40		
			Odometer reading (miles x 1000)										
			0.6	3	6	9	12	15	18	21	24		
1 (*)	Valves	Clearance check, adjustment	●		●		●		●		●		On reaching 40000 km,checks must be repeated starting from the 5000 km interval
2	Engine air filter element	Cleaning			●				●			●	
		Replacement					●				●		
3 (*)	Spark plugs	Gap check		●		●		●		●			
		Replacement			●		●		●		●		
4	Engine oil	Replacement	●	●	●	●	●	●	●	●	●		
		Level check										●	
5	Engine oil filter	Replacement	●		●		●		●		●		
6 (*)	Fuel circuit and evaporative emissions checking system	Leakage and cracks visual check, replacement if necessary		●	●	●	●	●	●	●	●	●	
7 (*)	Diagnostics	Inspection with diagnostic tool and error code check	●	●	●	●	●	●	●	●	●		
8	Engine coolant	Level and leakage visual check	●	●	●	●	●	●	●	●	●	●	
		Replacement	**Every 36 months**										

(*) Fundamental operation for keeping the emission values stable and controlled

No.	Part	Operation to be carried out	Odometer reading (km x 1000)									Annual checks	→
			1	5	10	15	20	25	30	35	40		
			Odometer reading (miles x 1000)										
			0.6	3	6	9	12	15	18	21	24		
9	Variator V-belt and rollers	Cracks visual check	●	●	●	●	●	●	●	●	●	●	**On reaching 40000 km, checks must be repeated starting from the 5000 km interval**
		Replacement if necessary			●		●		●		●		
10	Clutch	Visual check and replacement if necessary			●		●		●		●		
11	Final drive oil	Leakage visual check	●		●				●				
		Replacement and leakage check	●				●				●		
12 (*)	Exhaust system	Check, tightening (if necessary) and gasket replacement (if necessary)	●	●	●	●	●	●	●	●	●		
13	Timing chain	Replacement									●		
14	Throttle grip	Freeplay check, adjustment if necessary	●	●	●	●	●	●	●	●	●	●	
15	HTS	Front accumulator (central) air pressure check and restoration	●		●		●		●		●	●	
		Trim visual check	●	●	●	●	●	●	●	●	●	●	
		Oil change									●		
16	HTS switch	Correct operation check, support adjustment if necessary	●	●	●	●	●	●	●	●	●	●	
17	Parking brake mechanism	Play and operation check, adjustment if necessary	●	●	●	●	●	●	●	●	●	●	
18	Steering bearings	Play and steering smoothness check	●	●	●	●	●	●	●	●	●		

(*) Fundamental operation for keeping the emission values stable and controlled

No.	Part	Operation to be carried out	Odometer reading (km x 1000)									Annual checks	→
			1	5	10	15	20	25	30	35	40		
			Odometer reading (miles x 1000)										
			0.6	3	6	9	12	15	18	21	24		
19	Brake system	Front and rear brake pads visual check and replacement if necessary	●	●	●	●	●	●	●	●	●	●	On reaching 40000 km, checks must be repeated starting from the 5000 km interva
		Brake fluid level and leakage visual check	●	●	●	●	●	●	●	●	●	●	
		Brake fluid change	**Every 24 months**										
		Hose cracks visual check			●		●		●		●	●	
		Hoses replacement	**Every 48 months**										
20	Tyres	Pressure, wear and damage check. Replacement if necessary	●	●	●	●	●	●	●	●	●	●	
21	Wheels	Misalignment and damage check	●	●	●	●	●	●	●	●	●	●	
22	Front wheel bearings	Play check			●		●		●		●		
23	Steering rods and arms	Play check	●	●	●	●	●	●	●	●	●	●	
24	Safety locks	Check and tightening if necessary	●	●	●	●	●	●	●	●	●	●	
25	Lights, signals, switches	Operation check	●	●	●	●	●	●	●	●	●	●	
26	Central stand	Operation check and lubrication if necessary		●	●	●	●	●	●	●	●	●	

Engine oil: use SAE 10W60 API-SJ.

Engine oil quantity: 1.6 litres (sump only)
1.7 litres (oil sump + filter)

Check the engine oil on a level surface (0°), with the scooter vertical (90° with respect to the ground).
In very dump or dusty environments, clean and/or replace the engine and variator air filter more frequently.

EMERGENCY 5

The following page contains instructions to deal with minor emergencies which you may encounter while driving.

In any event, Quadro Vehicles authorised dealers will be happy to assist you in any type of operation and take care of your scooter.

FUSES

Before replacing any fuse, ensure that the main switch has been removed or is in the ⚷ position

Proceed as follows to replace a fuse:

- access the area underneath the seat as described in the “Equipment” section in the “Getting to Know your Scooter” chapter;
- lift cover A fig. 1 to access the fuses
- remove the blown fuse;
- replace the blown fuse with one of the same rating, positioning it in the same slot;
- close the fuse cover.

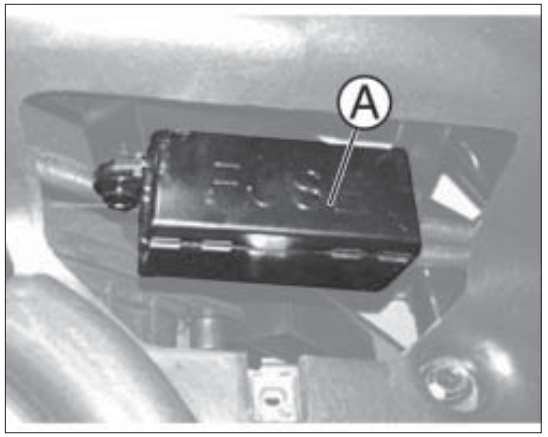


fig. 1

Never repair blown fuses; see a Quadro Vehicles dealer to have the component(s) replaced.

Table of fuses

Refer to figure 2	AMPERAGE	CONNECTED LOAD
1	30A	Battery charger circuit
2	15A	General
3	10A	Lights
4	10A	EFI
5	-	Spare

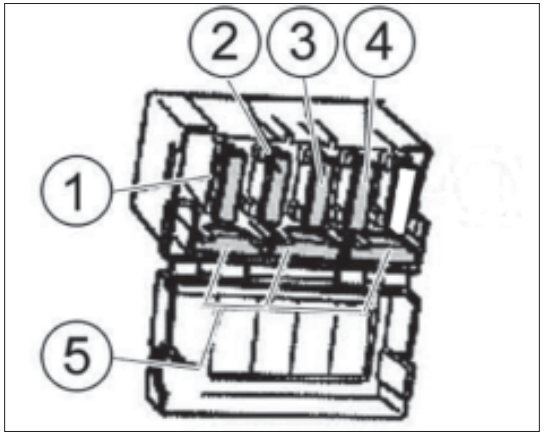


fig. 2

HEAD LIGHT CLUSTER

The bulbs in the head light cluster fig. 2 are laid out as follows:

A - Parking lights.
B - Dipped headlights.
C - Full-beam headlights.
D - Turn signals.

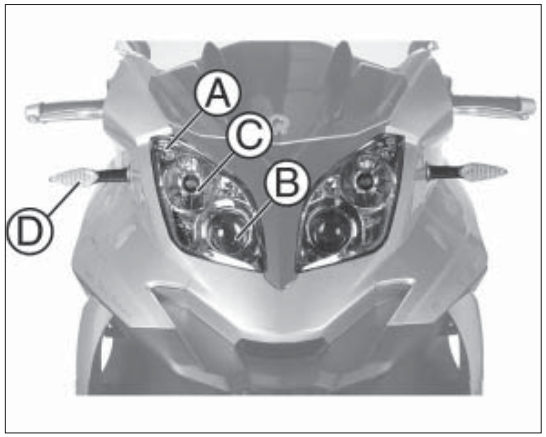


fig. 2

Replacing Bulbs

See an authorised Quadro Vehicles dealer or service centre if a bulb in the head light cluster needs replacement.

TAIL LIGHT CLUSTER

The bulbs in the tail light cluster fig. 3 are laid out as follows:

A - Parking / brake lights.
B - Turn signals.
C - License light bulb

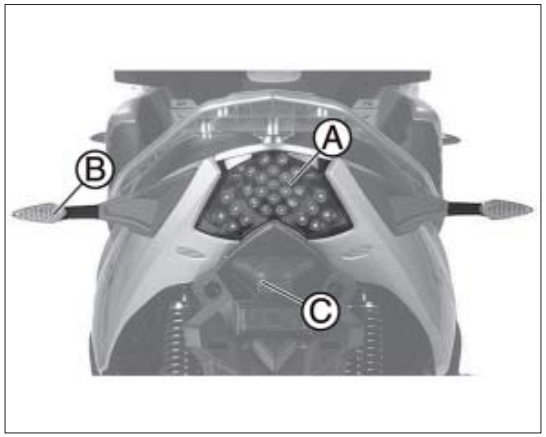


fig. 3

Replacing Bulbs

See an authorised Quadro Vehicles dealer or service centre if a bulb in the tail light cluster needs replacement.

NUMBERPLATE LIGHT

Before replacing the numberplate light, ensure that the main switch has been removed or is in the position

Proceed as follows to replace the numberplate light:

- unscrew screw A fig. 4;

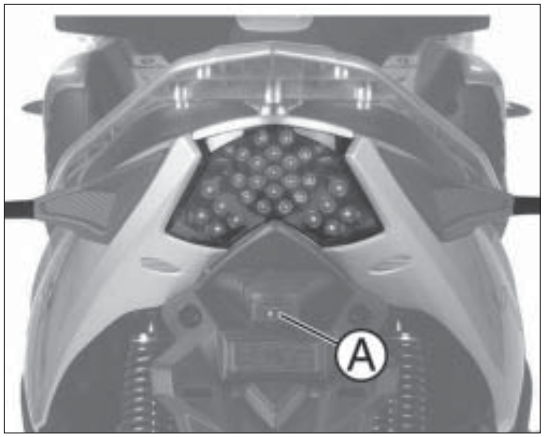


fig. 4

- remove the complete bulb-bulb holder assembly A fig. 5 from the plastic cover;

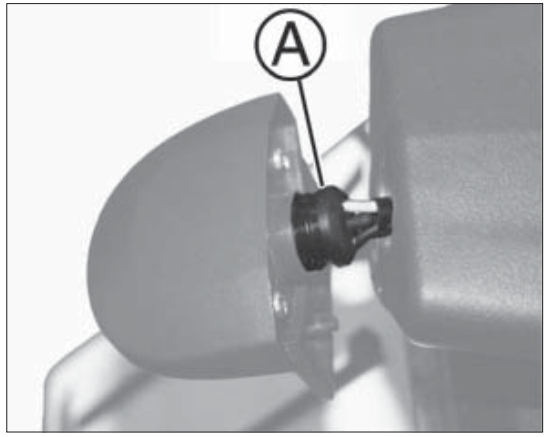


fig. 5

- disconnect the bulb A fig. 6 from the bulb holder.

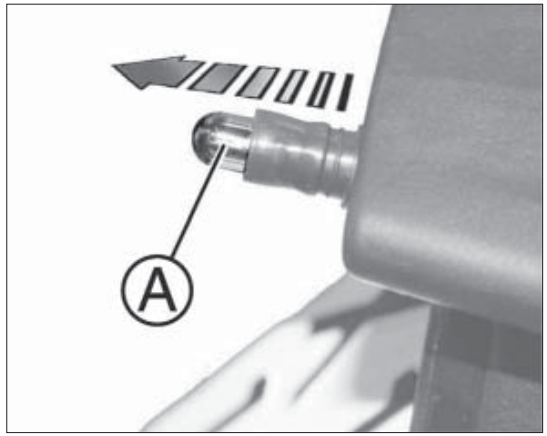


fig. 6

- replace the blown bulb and connect the new bulb to the bulb holder A fig. 6, ensuring that it is correctly inserted;
- install the bulb-bulb holder assembly A fig. 5 inside the plastic cover;
- reposition the plastic cover, screwing down the retaining screw A fig. 4.

REPLACING TYRES

QV3 is fitted with Tubeless tyres.

See an authorised Quadro Vehicles dealer or service centre for tyre replacement.

BATTERY

Before replacing or recharging the battery, ensure that the main switch has been removed or is in the position

The battery contains harmful and corrosive substances. Contact a doctor immediately if battery acids is swallowed or comes into contact with eyes or skin.

Keep the batteries out of children's reach.

Replacement

The battery is located on the left inside the leg shield.
Proceed as follows to replace the battery:

- remove cover A fig. 8 by unscrewing screws B and C;

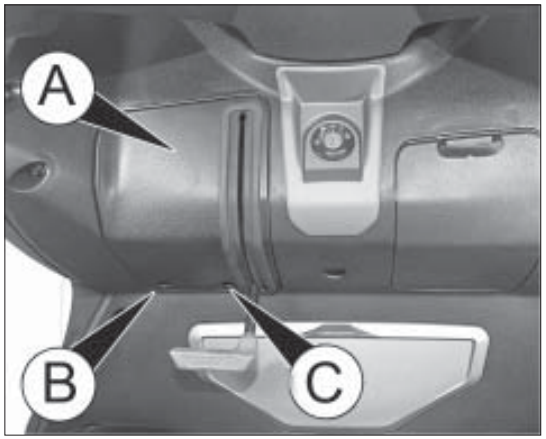


fig. 8

- extract the cover of the HTS lock/ release lever;
- unscrew screw A fig. 9 and remove the bracket B, then extract the battery C from its seat;

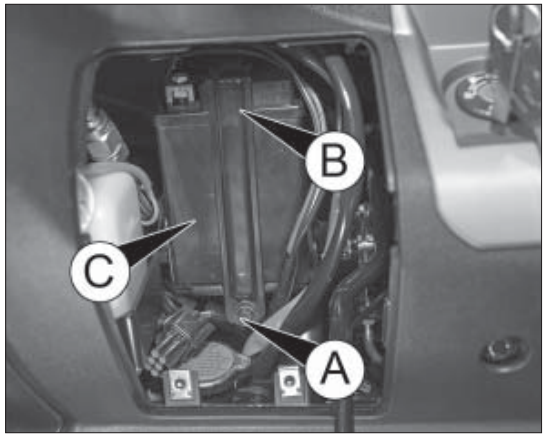


fig. 9

- disconnect terminal A fig. 10 (negative) from the battery, then terminal B (positive) To reinstall the battery perform the same procedure in reverse, ensuring you first connect terminal B fig. 10 (positive), followed by the negative terminal A fig. 10.

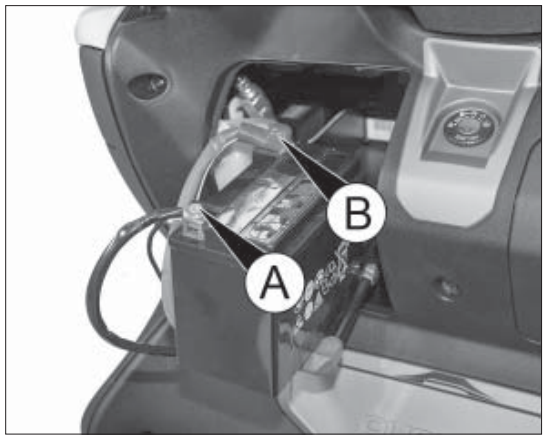


fig. 10

Never invert the battery polarity.

Ensure the battery terminals are correctly tightened. Loose terminals can cause malfunctions.

Battery acids are inflammable so, for this reason, do not generate sparks, use naked flames or smoke; fire hazard.

Never dump dead or damaged batteries or dispose of them in landfill, but follow the disposal procedure laid down by the statutory regulations in force in each country

Recharging the battery

To disconnect the battery, follow the procedure described in the “Replacing the battery” section in this chapter, then connect the battery charger.

Use only suitable battery chargers with an amperage which does not exceed the battery to be recharged.

TROUBLESHOOTING

The following table lists the main problems which can occur during operation of the scooter.

Problem	Possible cause	Solution
The engine will not start	A. Engine stop command	A. Place the engine stop command in position
	B. Brakes not activated or brake switch defective	B. Operate the brakes If necessary, see an authorised Quadro Vehicles centre or qualified workshop.
	C. Fuel tank empty	C. Check the fuel level
	D. Dirty spark plug	D. See an authorised Quadro Vehicles centre or qualified workshop for cleaning or replacement.
	E. Air or fuel filter clogged	E. See an authorised Quadro Vehicles centre or qualified workshop for cleaning.
	F. Clogged engine	F. Remove the spark plug and vaporise fuel inside the cylinder. See an authorised Quadro Vehicles centre or qualified workshop.
	G. Blown fuse	G. Replace the blown fuse and have the vehicle checked by an authorised Quadro Vehicles centre or qualified workshop.
Reduced braking power	A. Damage to brake pipes	A. See an authorised Quadro Vehicles centre or qualified workshop to have the component(s) replaced.
	B. Brake linings or tyres too worn	B. See an authorised Quadro Vehicles centre or qualified workshop to have the component(s) replaced.
	C. Brake disc greasy	C. See an authorised Quadro Vehicles centre or qualified workshop.
	D. Brake pads worn	D. See an authorised Quadro Vehicles centre or qualified workshop to have the component(s) replaced.
	E. Air in the front and rear brake circuits	E: See an authorised Quadro Vehicles centre or qualified workshop.
Noisy Operation	A. Worn bearings	A. See an authorised Quadro Vehicles centre or qualified workshop to have the component(s) replaced.
	B. Damaged silencer	B. See an authorised Quadro Vehicles centre or qualified workshop to have the component(s) replaced.
	C. Problems with the cylinder head	C. See an authorised Quadro Vehicles centre or qualified workshop to have the component(s) replaced.
The vehicle will not move	A. Parking brake and tilting lock engaged	A. Release the parking brake and tilting lock.
The engine stalls	A. Air or fuel filter clogged	A. Have the filter cleaned by an authorised Quadro Vehicles centre or qualified workshop.
	B. Silencer clogged	B: See an authorised Quadro Vehicles centre or qualified workshop.
	C. Fuel tank empty	C. Check the fuel level
Suspension ineffective	A. Loss of efficiency/trim	A: See an authorised Quadro Vehicles centre or qualified workshop.
Poor performance, high fuel consumption	A. Clogged or dirty air filter.	A. Have the filter cleaned by an authorised Quadro Vehicles centre or qualified workshop.

INACTIVITY AND LAYING UP 6

The following chapter describes the precautions to be taken in the event of a long period of inactivity of your QV3, aiming to keep it in good working order, as well as ensuring it retains its original appearance.

SCOOTER INACTIVITY AND LAYING UP

If the scooter will not be used for a long period of time, we recommend you proceed with any required maintenance and observe the following precautions:

- check the fluid levels and replace them if necessary;
- check the coolant system is full of 50% antifreeze solution;
- engage the parking brake;
- completely fill the tank with fuel mixed with a quantity of stabiliser, as specified by the manufacturer of the stabiliser;
- remove the battery (see the “Emergency” chapter);
- inflate the tyres to the pressure listed in the “Technical Data” chapter;
- clean the scooter (see paragraph on “Cleaning” in the “Maintenance” chapter);
- park the scooter on a solid, stable surface, in doors where it is not exposed to direct sunlight or damp;
- cover the scooter with a transparent sheet.

If it is necessary to protect the mechanical parts with special substances (e.g. antirust products) contact an authorised Quadro Vehicles dealership.

Before riding the scooter again after it has been laid up, do the following:

- check the tyre pressure and, if necessary, restore the pressure to the level indicated in the “Technical Data” chapter;
- if it is flat, recharge the battery, then fit it back on the scooter (see “Emergency” chapter);
- check the fluid levels and replace them if necessary;
- in the event of not using the scooter for more than 4 months, replace the engine oil;
- carry out an approximate check of the scooter's functions, especially the safety systems and lights.

 ***If, after a period of inactivity, you encounter faults in the functioning of the scooter, contact an authorised Quadro Vehicles dealership.***

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TECHNICAL DATA 7

This chapter contains all vehicle identification data as well as technical characteristics such as its weight, pressures, dimensions etc.

SCOOTER IDENTIFICATION

Frame number

The frame number is punched under the right-hand footrest, fig. 1.

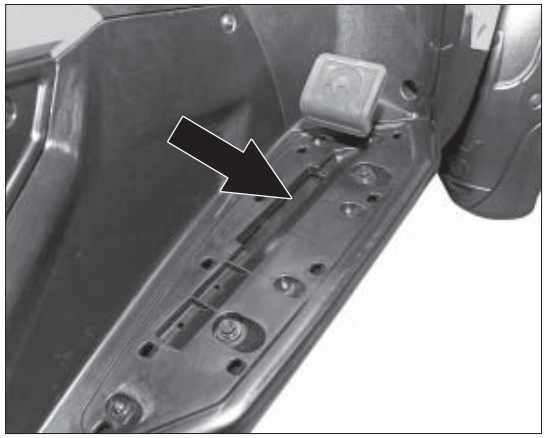


fig. 1

Engine number

The engine number is stamped on the crankcase A fig. 2.

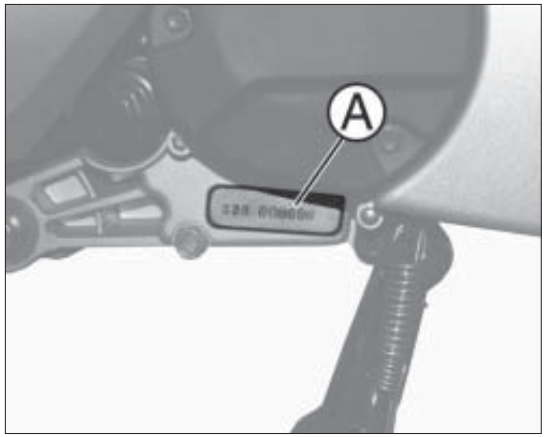


fig. 2

Alteration of the identification numbers is subject to criminal and administrative penalties. It will also immediately void the warranty.

ENGINE CHARACTERISTICS

Type	4-stroke
No. of cylinders	1
No. of valves	4
Cylinder Arrangement	Single, forward-facing cylinder
Cooling	Liquid type with fan
Timing	Single overhead cam
Displacement	346 cm^3
Bore	82 mm
Stroke	65.6 mm
Compression ratio	10.6 : 1
Starting System	Electrical
Engine idling	1700 ± 100 rpm
Lubrication system	With pressurised wet sump pump
Air filter	Paper element
Ignition spark plug	NGK CR8E (spark gap 0.7 - 0.8 mm)
Emission compliance	EURO 4
Fuel consumption	4.7 l/100 km (according to WMTC approval requirement cycle)
Emissions (CO2)	92 g/km (according to WMTC approval requirement cycle)

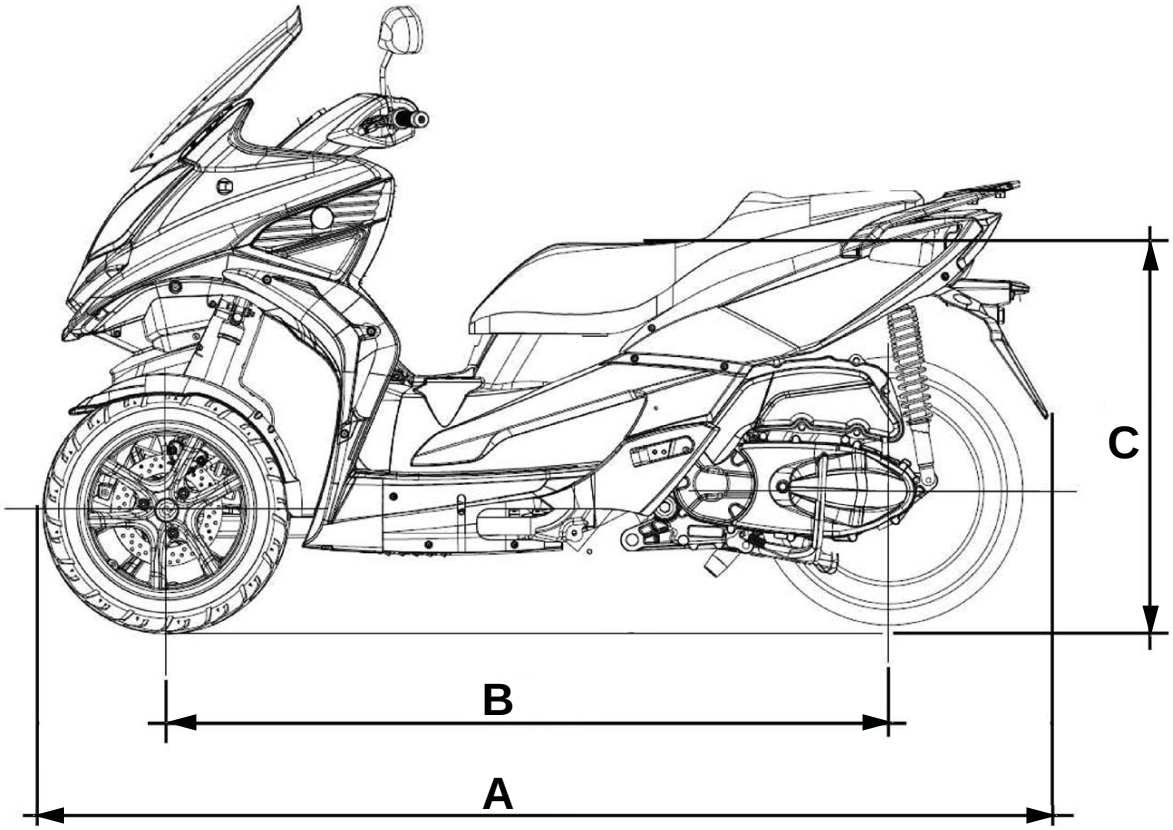
PRODUCTS

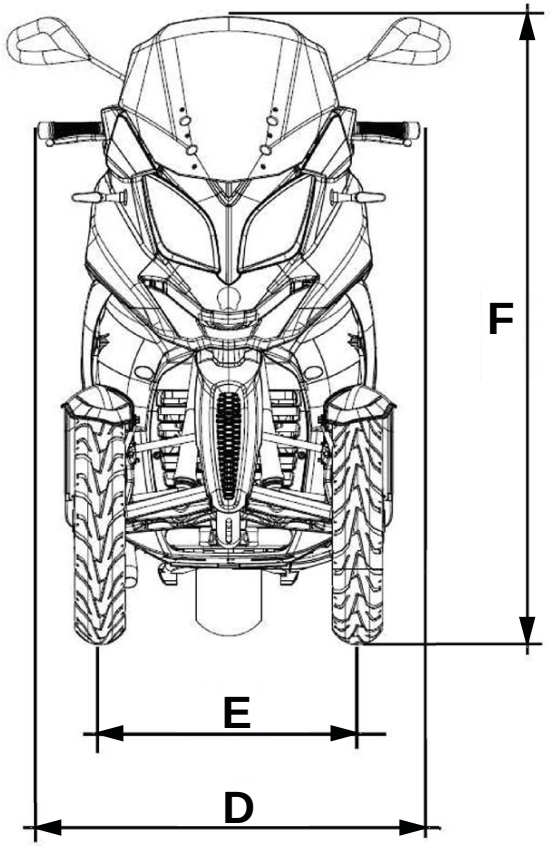
Engine oil	SAE 10W60 API-SJ
Final reduction gear case oil	SAE 80W - 90
Engine coolant	CUNA NC 956-16
Braking fluid	DOT3 or DOT4
Fuel	Unleaded petrol, min. 95 RON octane rating. Only use unleaded petrol with less than 10% ethanol
HTS system oil	Motorex Racing Fork SAE 10W

CAPACITY

Engine lubrication system	1.6 litres (sump only) 1.7 litres (oil sump + filter)
Final reduction lubrication system	200 cm^3
Engine cooling system	1200 cm^3 (radiator + system) maximum 250 cm^3 (expansion tank)
Fuel	13.2 litres Reserve capacity: 2.9 litres

SIZE (WITHOUT ACCESSORIES)





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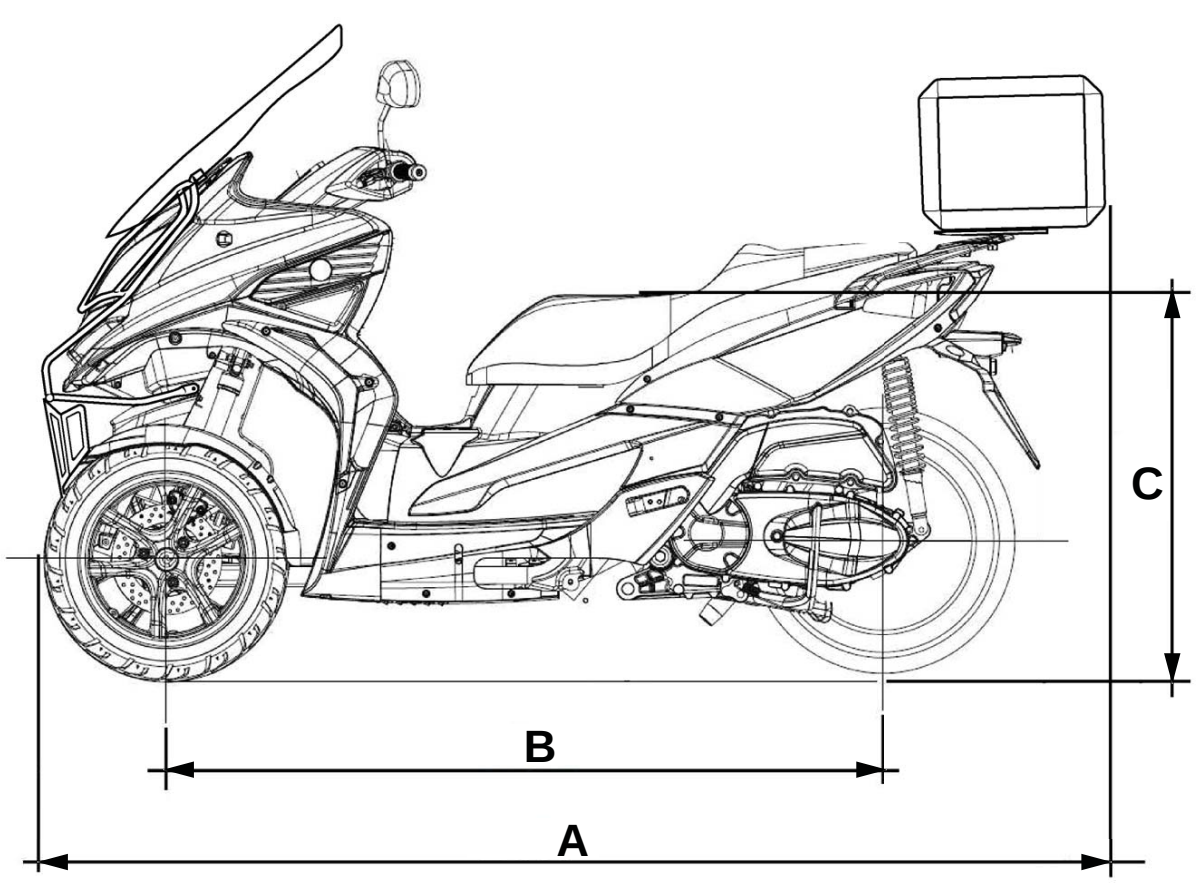

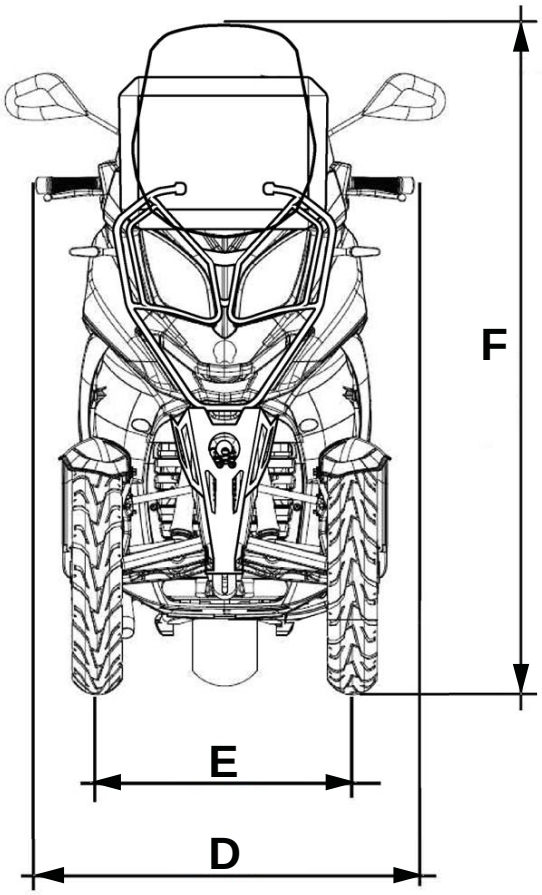

DIMENSIONS

Reference	Description	Value (mm)
A	Overall length	2270 (without accessories) 2350 (with accessories)
B	Wheelbase	1560
C	Seat height	810
D	Total width (at handlebars)	840
E	Front track	550
F	Total height (to cowl)	1310 (without accessories) 1600 (with accessories)

Dimensions are given in millimetres and refer to the scooter equipped with the original tyres.
The height refers to the scooter when unloaded

BULBS

Function	Type	Quantity	Features	
Dipped headlights	H8 halogen	2	12V	35 W
Full-beam headlights	H8 halogen	2	12V	35 W
Front parking light	Led	2	12V	1 W
Rear parking light	Led	1	12V	0.2 W
Brake light	Led	1	12V	1.8 W
Turn signal	Led	4	12V	1.2 W
License light bulb	Incandescent	1	12V	5 W
Headlight storage compartment light	Led	1	12V	0.82 W

BRAKE SYSTEM

Type	disc brakes, 2 front + 1 rear
Disc diameter	240 mm (front) 256 mm (rear)

CLUTCH

Type	Automatic dry centrifugal

TRANSMISSION

Primary	CVT
Final drive	Helical reduction gear in oil bath

FRAME

Type	Steel tubes and sheets

SUSPENSION

Front	HTS system oleo-pneumatic tilting suspension
Rear	Double shock absorber with preloaded spring

BATTERY

Model	Sealed lead-acid, GS GTX12 BS
Voltage	12V
Amperage	10Ah

WEIGHTS AND LOADS

Vehicle kerb weight	220 kg (without accessories) 227 kg (with accessories)
Passenger capacity	2 (driver + passenger)
Maximum permissible load	440 kg
Maximum payload (driver + passenger + load)	220 kg (without accessories) 213 kg (with accessories)

RIMS

Type	Alloy
Dimensions	14 x 2.75 (front) 15 x 3.75 (rear)

TYRES

Type	Tubeless
Size (front)	110/80-14 M/C 53P
Size (rear)	140/70-15 M/C 69P

TYRE PRESSURE

Front	1.5 bar
Rear	2.3 bar (pilot only) 2.5 bar (pilot + passenger)

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