QUADRO 4

USER MANUAL

Dear Customer,

QUADRO 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 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 owner's handbook supplied with your QUADRO 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 Dealers.
To ensure the safety, reliability and value of your scooter, and to maintain the validity of the warranty, use only original QUADRO spare parts and recommended lubricants.

This manual is an integral and essential part of your scooter.

Before you begin using the scooter, you must read this instruction 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 Owner's Handbook.
This 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 manual be applied.
This manual must always be provided together with the scooter if it is resold, hired or lent out.
This Owner's Handbook 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 manual is lost or damaged, request a new one from your dealer, giving them the scooter specifications.

The information contained in this Owner's Handbook is provided as a guide only and may not be completely up to date due to modifications which may be made by Quadro 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 Owner's Handbook supplied with the scooter.

SYMBOLS

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.

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

 WARNING with an impact on the environment.

 NOTE of a general nature.

OVERVIEW

SAFETY AND RECOMMENDATIONS

GETTING TO KNOW YOUR SCOOTER

USE

MAINTENANCE

EMERGENCY

TECHNICAL DATA

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SAFETY AND RECOMMENDATIONS 1

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

GENERAL RECOMMENDATIONS AND REQUIREMENTS

Using Quadro4 requires knowledge of driving techniques for two-wheeled vehicles.
Ensure you have learnt and practised these techniques with a qualified driving instructor before using the scooter.

Quadro4 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.

The driver and passenger must wear clothing and safety equipment which meets applicable legislation in the country the vehicle is being driven in. 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 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.

If fuel should come into contact with your eyes, seek medical assistance immediately.

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 dealer immediately.

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.

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

Quadro4 has been designed to transport

Quadro4 has been designed and developed primarily for use on roads; you should therefore avoid long and/or particularly uneven stretches of unpaved roads.

SAFE DRIVING

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. 1 - fig. 2 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.
In order to avoid possible collisions, you

fig. 1

fig. 2

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

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

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

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.

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.

 ***The scooter is equipped with a parking brake; for correct use when parking/stopping the scooter, carefully read the "Parking Brake" section in the "Getting to Know Your Scooter" chapter.***

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

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 components/accessories in order not to compromise vehicle operation and driver/passenger safety.

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

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

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 manual shall relieve the manufacturer of any responsibility for vehicle safety and/or operation.

GETTING TO KNOW YOUR SCOOTER 2

This chapter describes the functions and systems your Quadro4 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

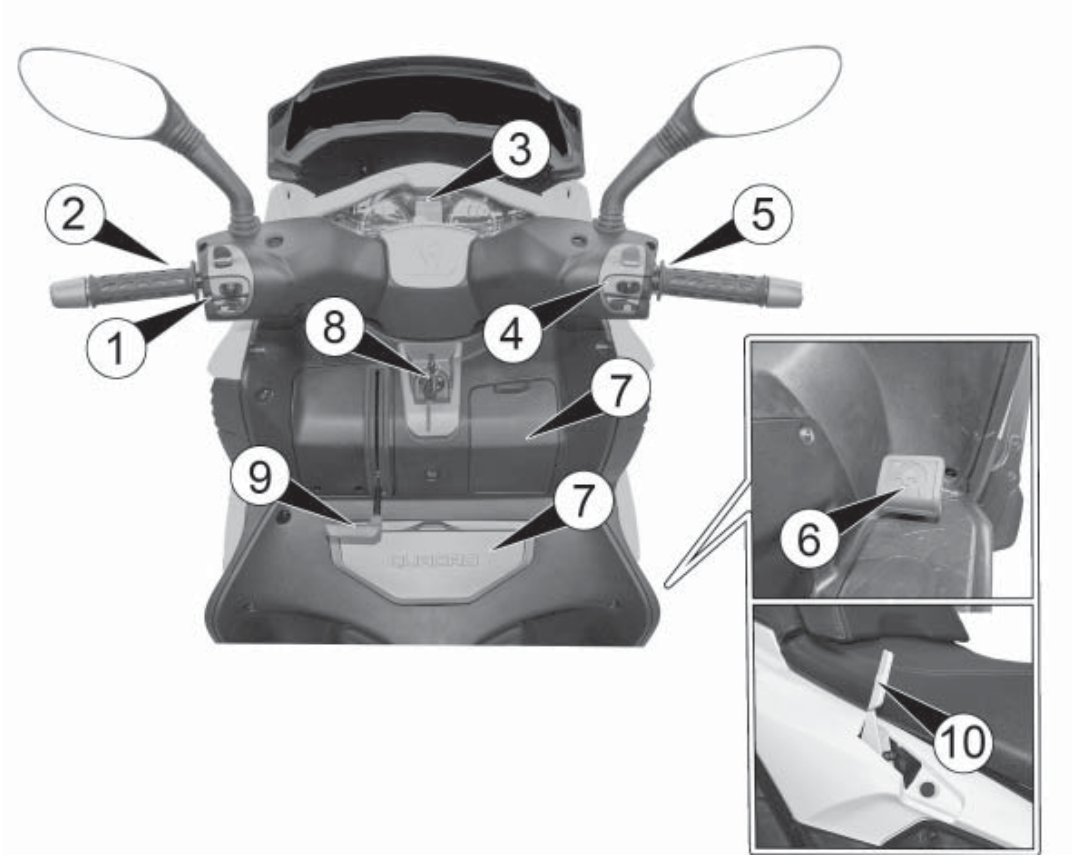


fig. 1

1 - Handlebar controls, left-hand side.
2 - Integrated brake lever (front and rear).
3 - Instrument panel.
4 - Handlebar controls, right-hand side.
5 - Brake lever (front).
6 - Integrated brake pedal (front and rear).
7 - Storage compartments.
8 - Ignition key.
9 - Tilting lock/release lever.
10 - Parking brake lever

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. 2 in position 0, the dipped headlights are turned on; this is indicated by the following light on the instrument panel: .

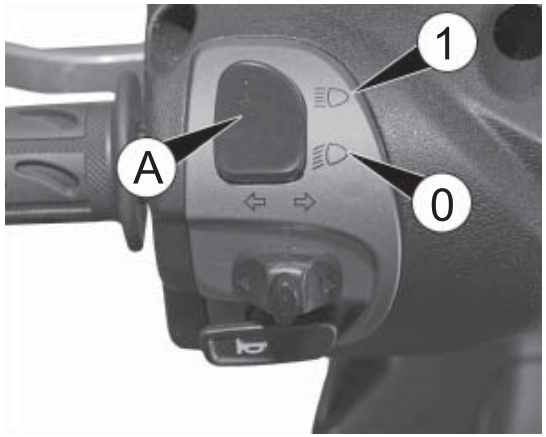


fig. 2

The dipped headlights always stay on.

Full-beam headlights

With the key in position , turn selector A fig. 2 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 selector A fig. 2 (momentary position).

Turn signals

With the key in position , place selector A fig. 3 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. 3 on the selector.

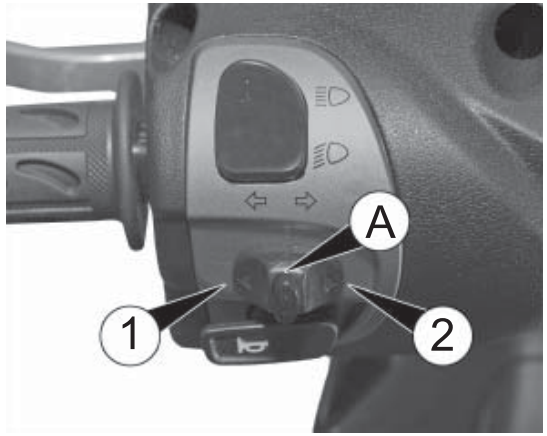


fig. 3

Horn

To sound the horn, press and hold down button A fig. 4.

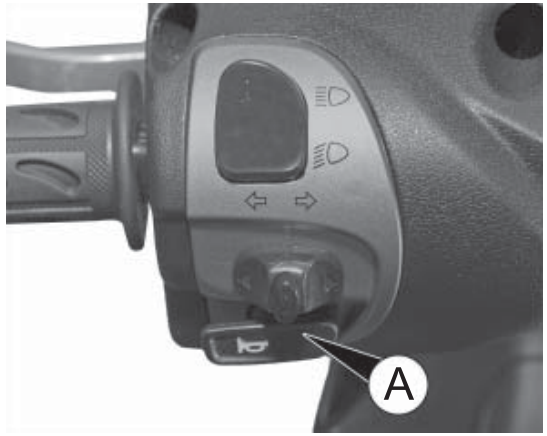


fig. 4

HANDLEBAR CONTROLS, RIGHT-HAND SIDE

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

Hazard warning lights

To activate the hazard warning lights, place selector A fig. 5 in position 1. The corresponding indicator light on the instrument panel ⚠ comes on.
To switch them off, return the selector to its initial position.

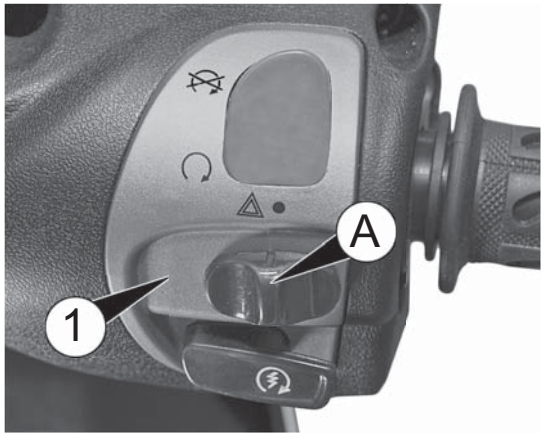


fig. 5

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

KEYS

The scooter is supplied with two identical keys fig. 6, which allow you to start the vehicle, engage the steering lock, engage the parking brake and open the seat.

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

fig. 6

STEERING LOCK

Proceed as follows to engage the steering lock:

- Turn the handlebar all the way to the left
- Press and turn the key to the left to the 🔒 position
- Remove the key

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

PARKING BRAKE

Engagement

Engaging the parking brake requires the engine to be turned off.

The parking brake must only be engaged when the scooter is stationary.
Depending on the slope of the road (uphill or downhill), use the brake pedal for assistance.

Proceed as follows to engage the parking brake:

- Turn the ignition key anticlockwise to the position (without pressing it) and hold it there
- Rotate the parking brake lever A fig. 7, located on the right-hand side of the scooter, from position 0 position 1
- Release the key

- Move the scooter forwards and backwards in order to ensure that the parking brake is correctly engaged.

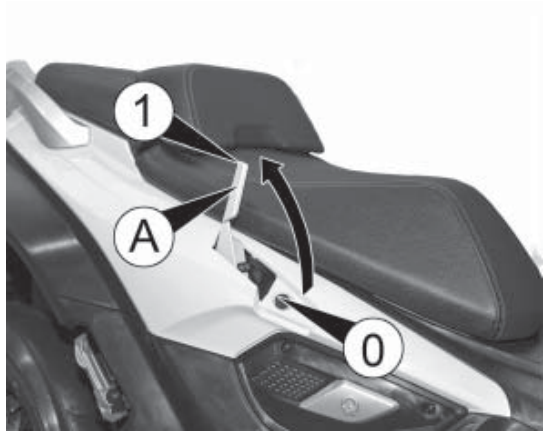


fig. 7

Disengagement

Proceed as follows to disengage the parking brake:

- Turn the ignition key anticlockwise to the position and hold it there
- Lower lever A fig. 8, accompanying it from position 1 to position 0 without letting go for the whole duration of the operation
- Release the key

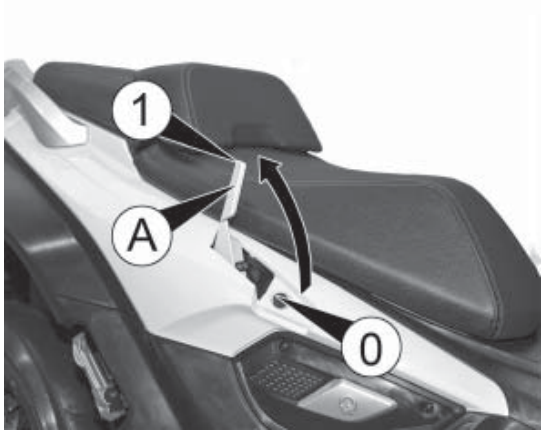


fig. 8

While disengaging the parking brake, it is important not to let go of the lever, but rather to accompany it by applying an opposing force.

A protective device limits engine speed if you attempt to accelerate with the parking braking engaged.

HTS (Hydraulic Tilting System) LOCK/RELEASE LEVER

The scooter is equipped with an oleo-pneumatic front and rear 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 four-wheeled vehicle due to the grip provided by all four wheels on the ground.

Lever A fig. 9, located on the leg shield, locks or releases front HTS tilting.

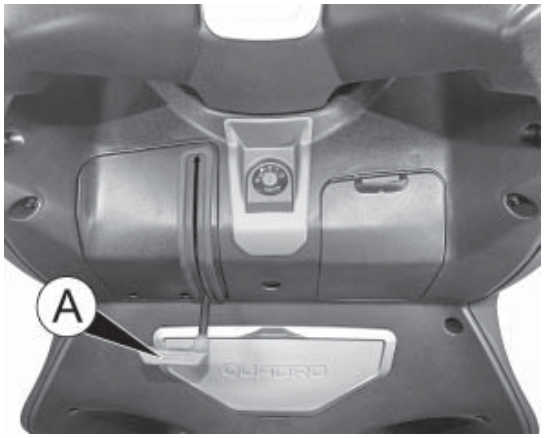


fig. 9

Tilting lock

Placing lever A fig. 10 in the 0 position engages the tilting lock, preventing the scooter from tilting.

Do not drive with the tilting locking engaged.

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

Releasing the Tilting Lock

Placing lever A fig. 10 in the 1 position releases the tilting lock, allowing the scooter to tilt.

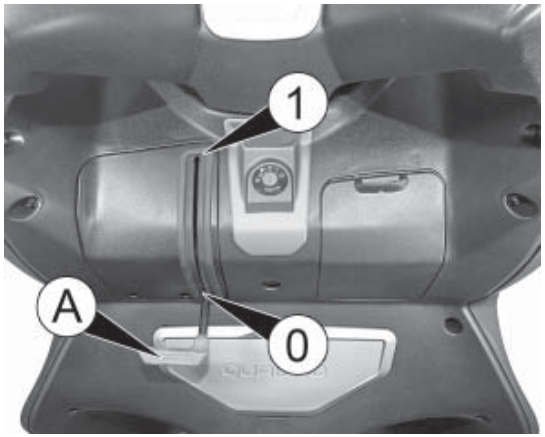


fig. 10

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 either the tilting lock or the parking brake.
These systems 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).

Remember that engaging the parking brake lever requires the scooter to be turned off.
For further information, read the "Parking brake lever" section in this chapter.

STOPPING THE SCOOTER

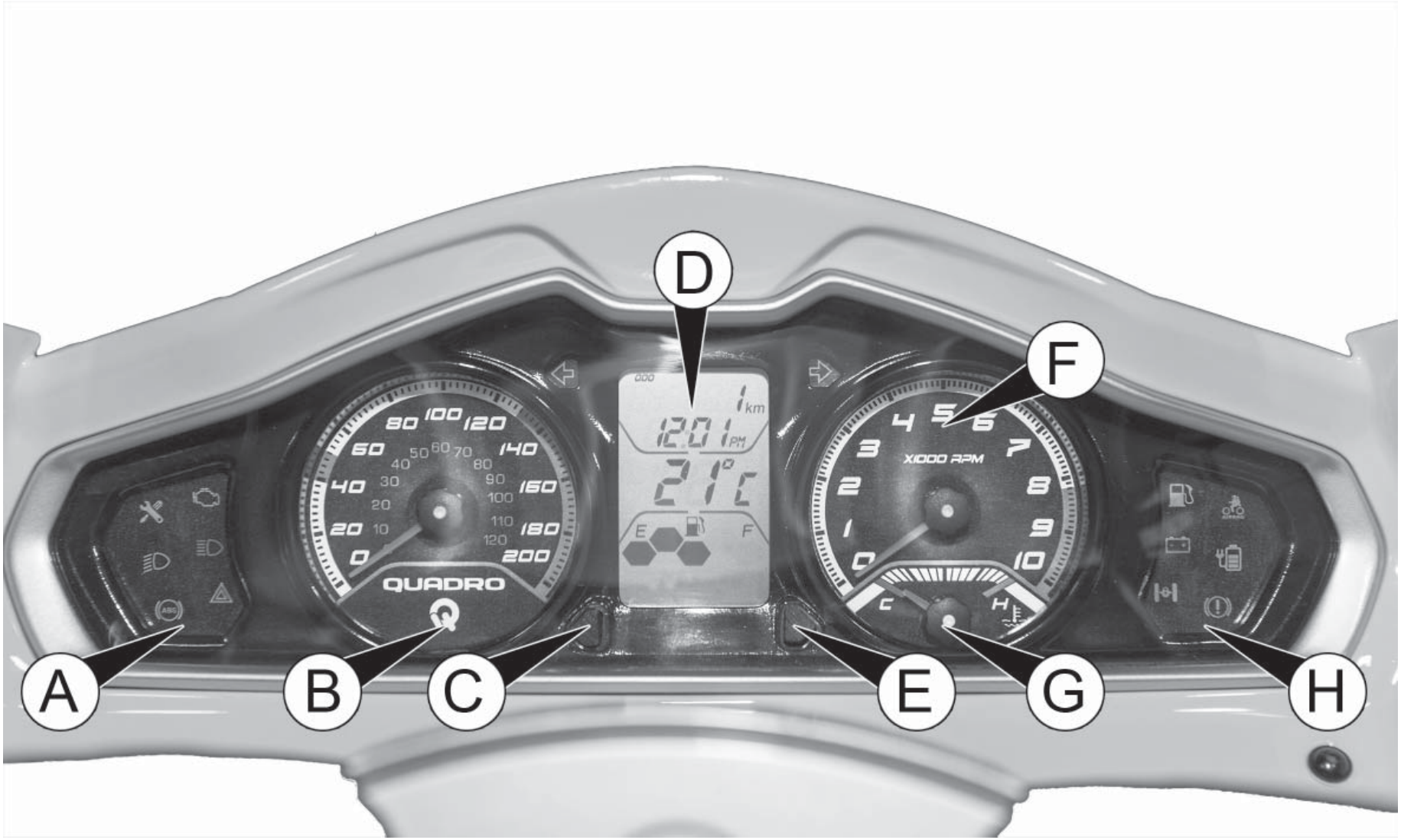
If the scooter is stopped and left by the driver, they must:

- Engage the tilting lock
- Engage the parking brake
- 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 - Rev counter
G - Engine coolant temperature gauge
H - Right group of indicator lights

ON-BOARD COMPUTER

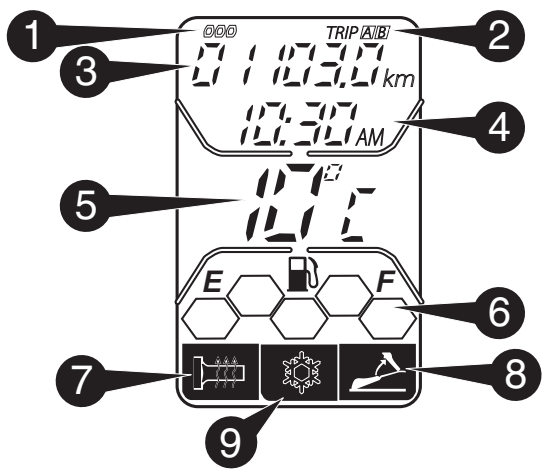


fig. 11

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 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:

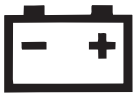
1. Press the ADJ selection button to increase the hours
2. Press the MODE selection button to change to setting the minutes
3. Press the ADJ selection button to increase the minutes
4. Press the MODE + ADJ selection buttons to exit time setting mode

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 warning 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 “Parking Brake” section in this chapter.

SYMBOL	DESCRIPTION
	**Planned 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 dealer, who will service it following the Planned Maintenance Plan and then reset the indicator light.
	**Malfunction Indicator** 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 dealer. If the warning light stays off with the ignition key in position and engine off, consult an authorised Quadro 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.

INTEGRATED BRAKE PEDAL

The integrated brake pedal A fig.12 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.

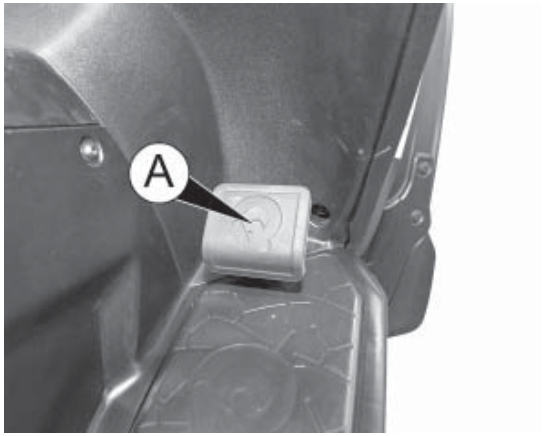


fig. 12

REAR-VIEW MIRRORS

To adjust the rear-view mirrors fig. 13, move them manually to the required position.

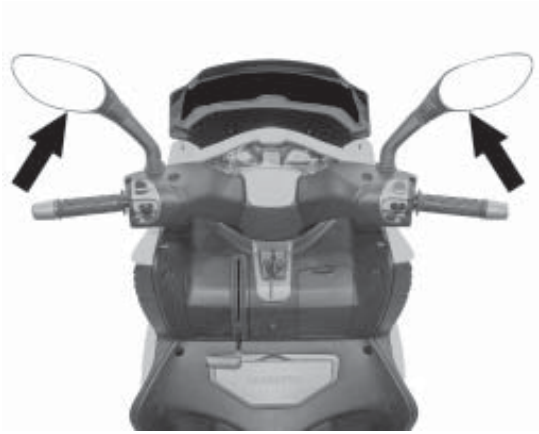


fig. 13

REAR FOOTRESTS

To open it, press the upper part of the footrest A fig. 14; the footrest will move from position 0 to position 1.

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

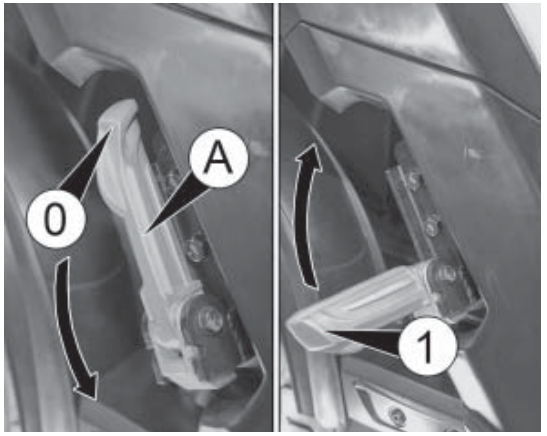


fig. 14

EQUIPMENT

Storage compartments

Quadro4 is equipped with two storage compartments A and B fig. 15, both located in the leg shield.
To access the upper storage compartment A fig. 15, pull the handle.
To access the lower storage compartment B fig. 15, press the door.

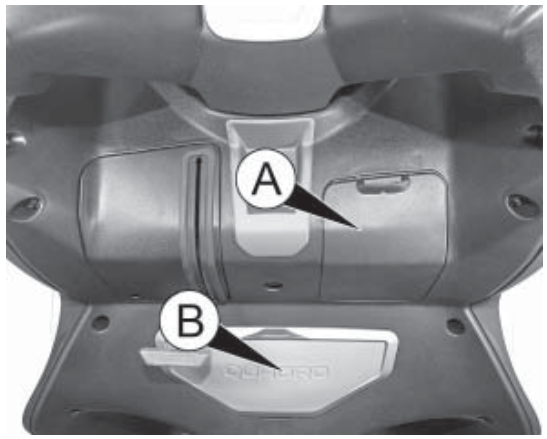


fig. 15

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. 16:

- Turn the key to the right, to the position
- Raise the seat A 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.

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.

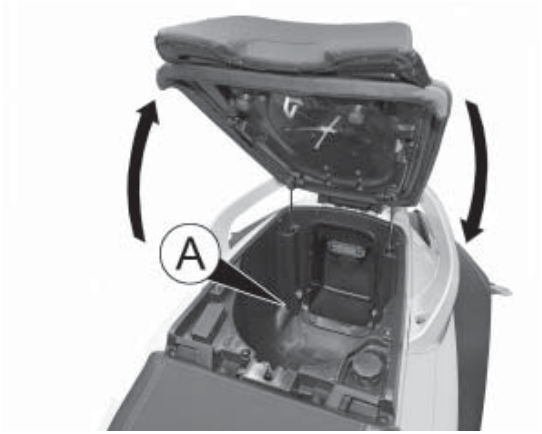


fig. 16

Electrical sockets

Quadro4 is equipped with two 12 V power (cigarette lighter) sockets.

The power socket A fig. 17 is located inside the storage compartment at the bottom of the leg shield.

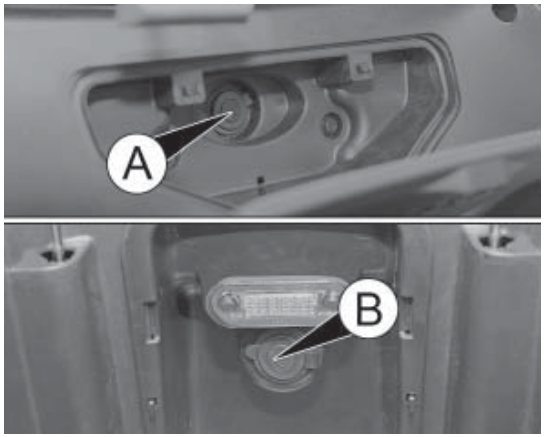


fig. 17

Power socket B fig. 17 is located in the storage compartment beneath the seat. To access it, follow the procedure given in the "Storage compartment below seat" section in this chapter.

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

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USE 3

This chapter describes the main operations which must be performed and some tips to adopt when preparing to drive the Quadro4.
It also provides instructions to be followed when you park the vehicle.

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 - Position enabling parking brake engagement/release.
3 - OFF.
4 - ON.
5 - Seat opening.

fig. 1

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

ENGINE START

Proceed as follows to start the scooter:

- Ensure that button A Fig. 2 is in position 0
- Release the parking brake, if engaged
- 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.

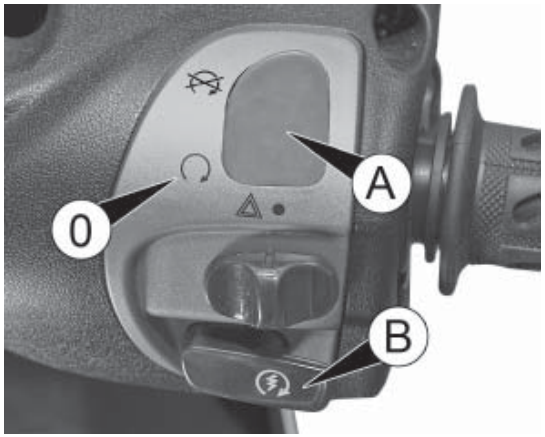


fig. 2

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

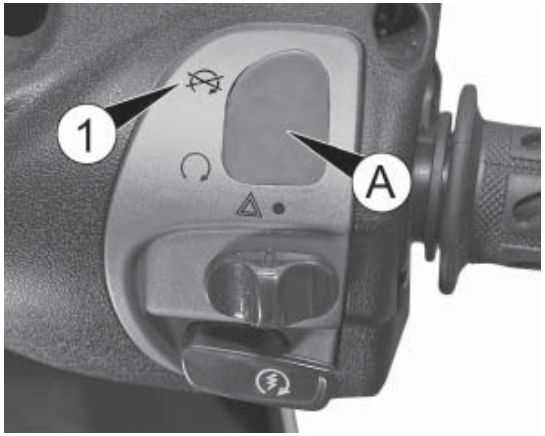


fig. 3

Never leave 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, you must also engage the parking brake, 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 “Technical Data” chapter.

REFUELLING

Proceed as follows to access the fuel filler cap:

- Turn the key to the position and raise the seat
- Unscrew the cap A in fig.4 (green).

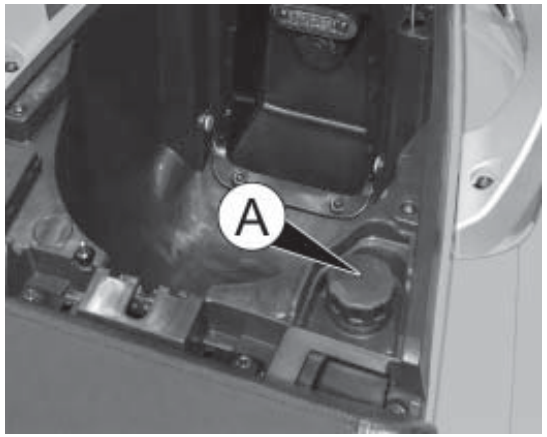


fig. 4

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.

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.

PERIODS OF INACTIVITY

If the scooter will not be used for a long period of time, we recommend you observe the following precautions:

- Engage the tilting lock
- 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.

MAINTENANCE 4

This chapter specifies the maintenance procedures and checks which must be performed by specialised personnel in order to maintain the performance of Quadro 4 and keep it in good working order, as well as ensuring it retains its original appearance.

GENERAL INFORMATION

Ensuring you always follow the scheduled and extraordinary maintenance instructions in this Owner's Handbook will guarantee perfect operation and a long lifetime for your scooter.

The maintenance operations specified in this Owner's Handbook 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 dealers or service centres.

All maintenance operations must be performed with the engine off and the parking brake and tilting lock engaged.

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

LEVEL CHECK

Engine oil

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

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

To check the oil level, use the inspection window A located under the left-hand footrest fig. 1, depending on the indications given in the table on the following page.

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

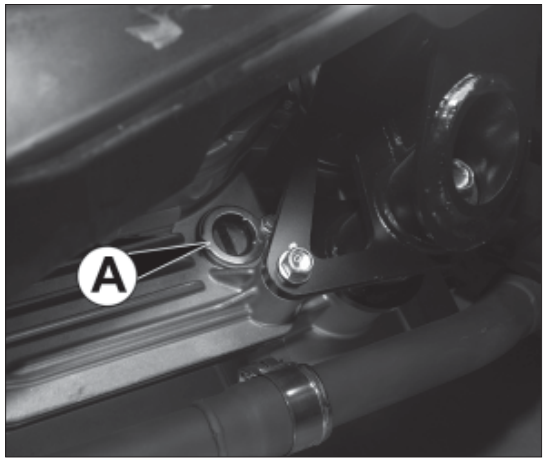
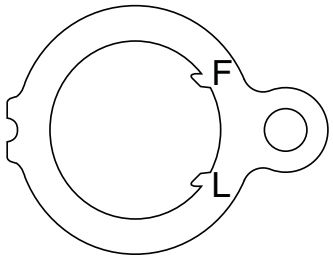
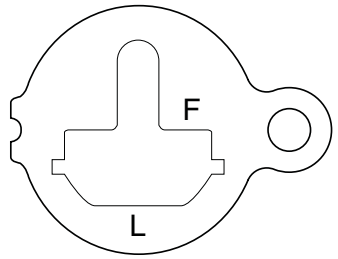
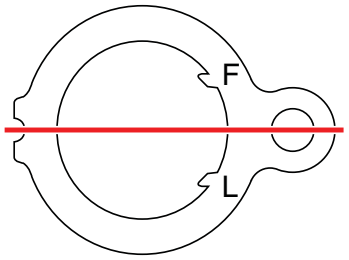
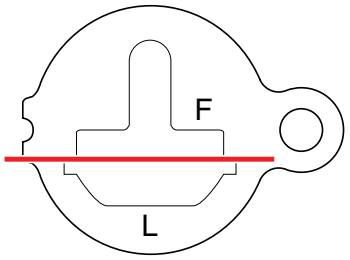


fig. 1

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

Oil window table

Chassis no. (VIN)	FROM TAC632300ET000001 TO TAC632305GT001276	
	Oil window (standard)	**Oil window (whether replaced)**
Type of oil inspection window fitted		
Oil quantity (sump only)	2.3 litres	2.1 litres
Oil quantity (sump + filter)	2.4 litres	2.2 litres
Maximum level indicator		

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 dealer or service centre.

Proceed as follows in order to access the coolant reservoir and check the coolant level:

- Remove cover A fig. 2 by unscrewing screws B and C
- Extract the cover of the HTS lock/release lever
- Check that the coolant in the reservoir is near the FULL mark fig. 3

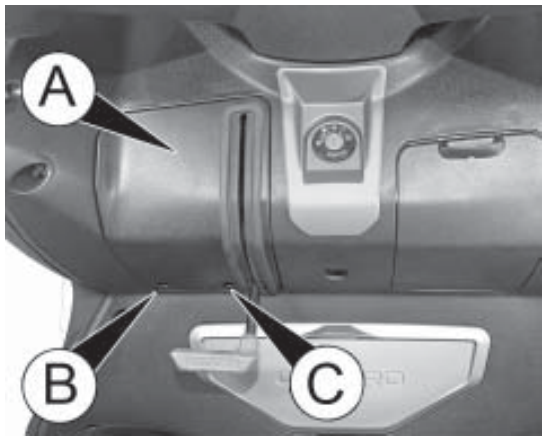


fig. 2

- If it is necessary to top up the coolant, remove the cap A fig. 3 from the reservoir to access it, or contact an authorised Quadro dealer or service centre
- Refit the cover following the same procedure in reverse

To avoid burns, do not remove the coolant reservoir cap with the engine hot.

fig. 3

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 A and B fig. 4, located on the right- and left-hand sides of the handlebar.

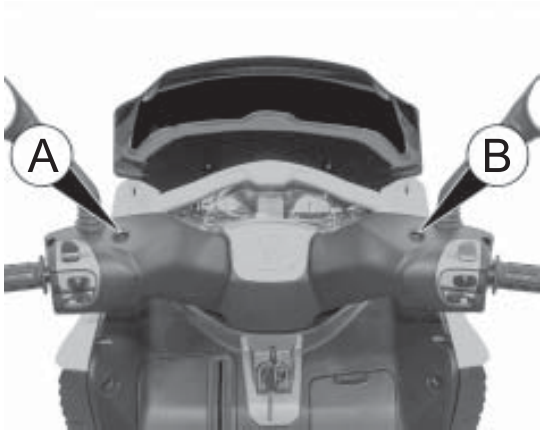


fig. 4

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

AIR FILTER

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

CLEANING

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

- Remove any dirt 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

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.

When washing the vehicle, the brake components may come into contact with water and degreasers: this may lead to a momentary loss of braking power and an increase in stopping distances.
In order to restore normal operation, drive the scooter cautiously and activate the brakes numerous times.

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.

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.

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

Use cold water to remove road salt.

Hot water increases the corrosive effects of the salt.

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

PLANNED 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 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 and the variator case air filter more frequently if the scooter is used in very humid or dusty environments.
On reaching 40000 km, the checks must be repeated cyclically beginning from the first interval, with the same time/mileage intervals as before.

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	Check clearance, adjust	●		●		●		●		●		**On reaching 40000 km, checks must be repeated starting from the 5000 km interval**
2	Engine air filter	Clean			●				●				
		Replace					●				●		
3	Spark plugs	Check electrode gap		●		●		●		●			
		Replace			●		●		●		●		
4	Engine oil	Replace	●	●	●	●	●	●	●	●	●		
		Check level										●	
5	Engine oil filter	Replace	●		●		●		●		●		
6	Fuel circuit	Visually check for leaks and cracks		●	●	●	●	●	●	●	●	●	
7	Engine coolant	Visually check level and for leaks	●	●	●	●	●	●	●	●	●	●	
		Replace	**Every 36 months**										
8	Variator V-belt	Replace			●		●		●		●		

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 rollers	Check and replace if necessary			●		●		●		●		**On reaching 40000 km, checks must be repeated starting from the 5000 km interval**
10	Variator case air filter	Clean or replace if necessary			●		●		●		●		
11	Clutch	Check					●						
12	Final drive and differential oil	Visually check for leaks	●		●				●				
		Replacement and leakage check	●				●				●		
13	Final drive belts	Check and adjust tension		●	●	●	●	●	●	●	●		
		Replace if necessary					●				●		
14	Exhaust system fastening screws	Check and tighten if necessary	●	●	●	●	●	●	●	●	●		
15	Timing chain	Replace									●		
16	Accelerator control grip	Check free play, adjust if necessary	●	●	●	●	●	●	●	●	●		
17	HTS	Check and restore front (central) and rear (right) reservoir air pressure	●		●		●		●		●	●	
		Trim visual check	●	●	●	●	●	●	●	●	●	●	
		Change oil									●		

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		
18	HTS switch	Check for correct operation, adjust support if necessary	●	●	●	●	●	●	●	●	●	●	On reaching 40000 km, checks must be repeated starting from the 5000 km interval
19	Parking brake switch	Check for correct operation, adjust support if necessary	●	●	●	●	●	●	●	●	●	●	
20	Steering bearings	Check free play and smoothness of steering	●	●	●	●	●	●	●	●	●		
21	Braking system	Replace brake pads	**If worn to limit**										
		Visually check brake fluid level and for leaks	●	●	●	●	●	●	●	●	●	●	
		Change brake fluid	**Every 24 months**										
		Visually check for cracks in hoses			●		●		●		●	●	
		Replace hoses	**Every 48 months**										
22	Tyres	Check pressure, wear and damage Replace if necessary	●	●	●	●	●	●	●	●	●	●	
23	Wheels	Check for misalignment and damage	●	●	●	●	●	●	●	●	●	●	
24	Front and rear wheel bearings	Check free play			●		●		●		●		
25	Check steering rods and arms	Check free play	●	●	●	●	●	●	●	●	●	●	
26	Safety locks	Check and tighten if necessary	●		●		●		●		●	●	
27	Parking brake mechanisms	Check free play, lubrication	●	●	●	●	●	●	●	●	●	●	

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		
28	Lights, signal, switches	Check operation	●	●	●	●	●	●	●	●	●	●	**(*)**

(*) On reaching 40000 km, checks must be repeated starting from the 5000 km interval

Engine oil: use SAE10W40 or SAE10W50.

Quantity of engine oil: 2.1 ÷ 2.3 litres (*) when replacing the oil;
2.2 ÷ 2.4 litres (*) when replacing the oil and the oil filter.

(*) Depending on the scooter chassis number, for the correct amount of engine oil consult the "Oil window table" on page 30.

Check the engine oil on a level surface (0°), with the scooter vertical (90° with respect to the ground).

In very humid 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 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 ignition key 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

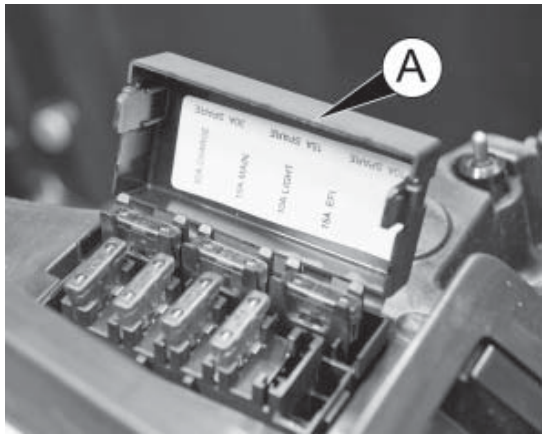


fig. 1

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

Table of fuses

Refer to figure 2	AMPERAGE	CONNECTED LOAD
A	30A	Battery charger circuit
B	15A	General
C	10A	Lights
D	15A	EFI
E	30A	Spare
F	15A	Spare
G	10A	Spare

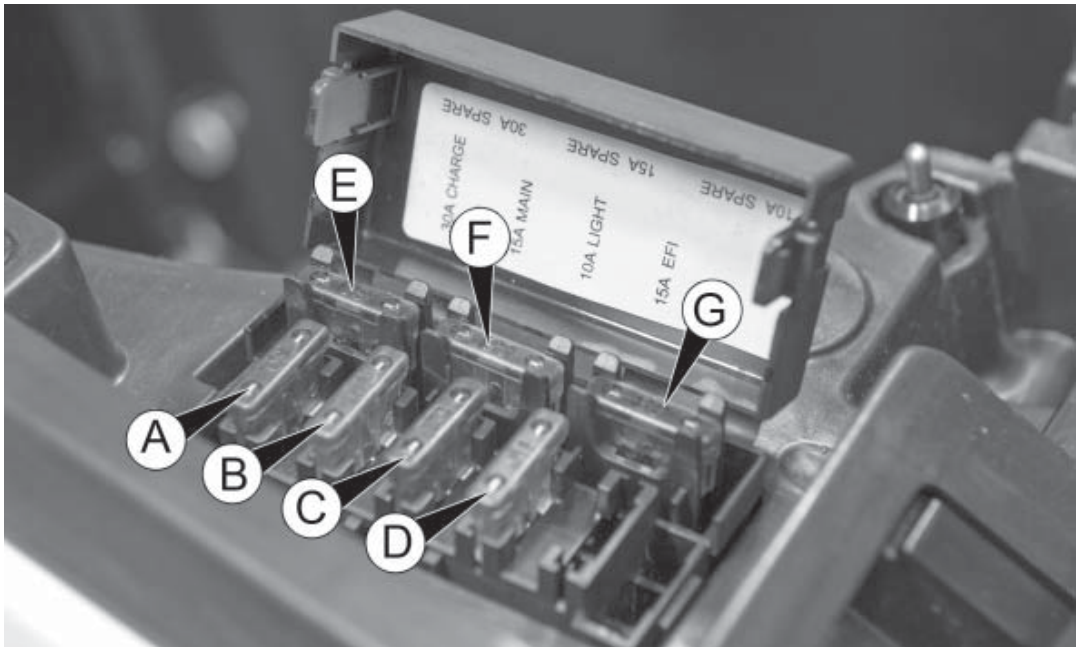


fig. 2

FRONT LIGHT CLUSTER

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

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

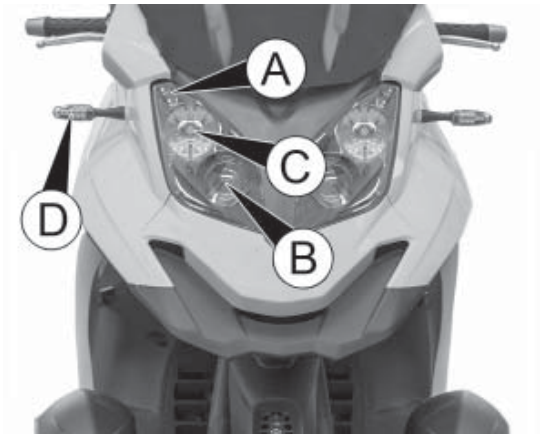


fig. 3

Replacing Bulbs

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

REAR LIGHT CLUSTER

The bulbs in the rear light cluster fig. 4 are laid out as follows:

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

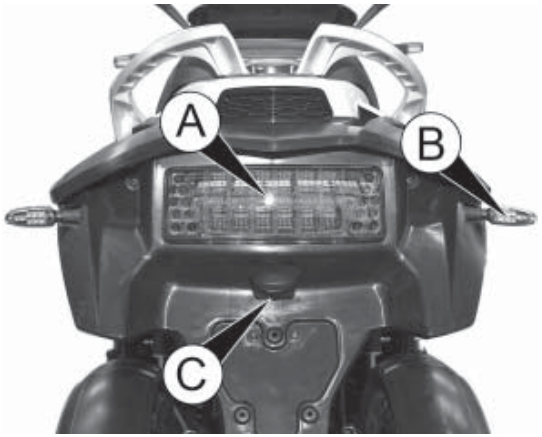


fig. 4

Replacing Bulbs

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

NUMBERPLATE LIGHT

Before replacing the numberplate light, ensure that the ignition key has been removed or is in the position

Proceed as follows to replace the numberplate light:

- Unscrew screw A fig. 5

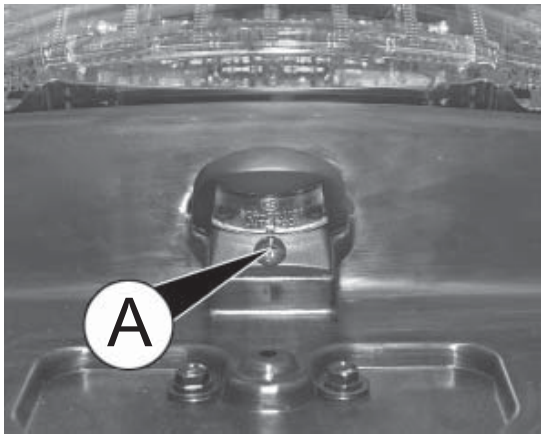


fig. 5

- Remove the complete bulb-bulb holder assembly A fig. 6 from the plastic cover

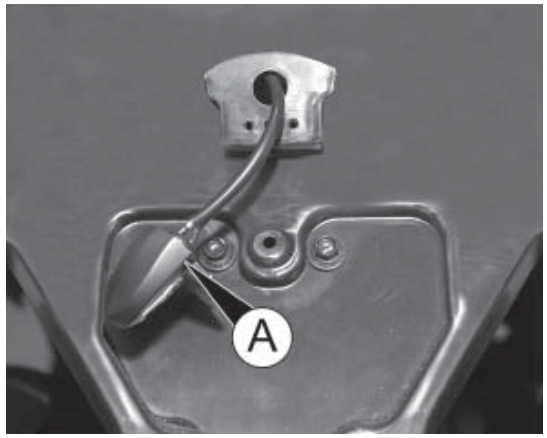


fig. 6

- Disconnect the bulb A fig. 7 from the bulb holder B.

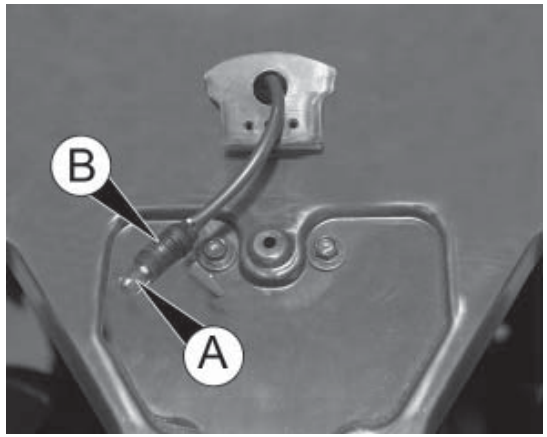


fig. 7

- Replace the blown bulb and connect the new bulb to the bulb holder B fig. 7, ensuring that it is correctly inserted
- Install the bulb-bulb holder assembly A fig. 6 inside the plastic cover
- Reposition the plastic cover, screwing down the retaining screw A fig. 5.

REPLACING TYRES

Quadro4 is fitted with Tubeless tyres.

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

BATTERY

Before replacing or recharging the battery, ensure that the ignition key has been removed or is in the position

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

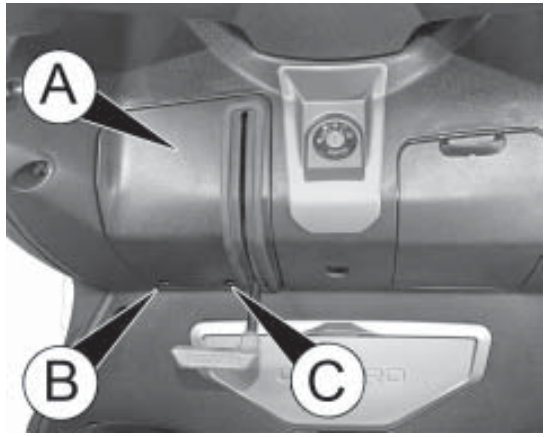


fig. 8

- 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

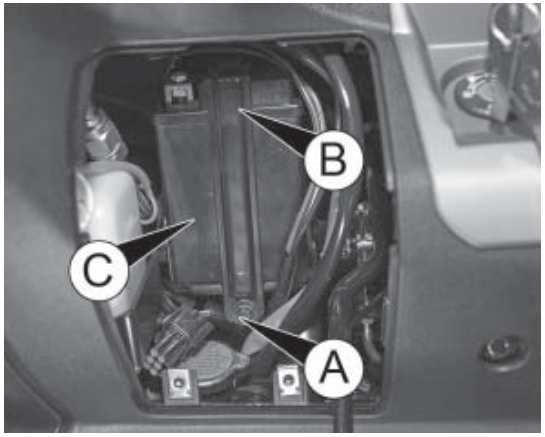


fig. 9

- 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.

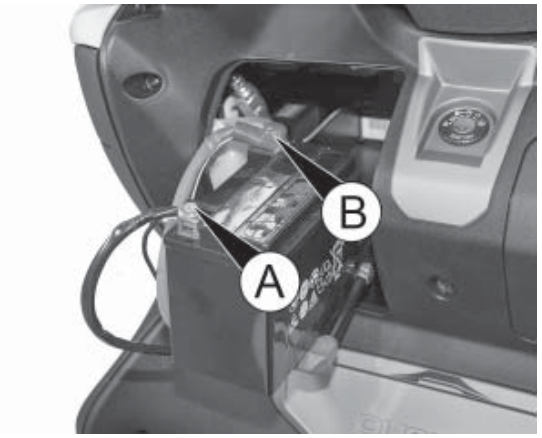


fig. 10

Never invert the battery polarity.

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

Never dump dead or damaged batteries or dispose of them in landfill – you must follow the disposal procedure applicable in your 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 centre or qualified workshop.
	C. Fuel tank empty	C. Check the fuel level
	D. Dirty spark plug	D. See an authorised Quadro centre or qualified workshop for cleaning or replacement
	E. Air or fuel filter clogged	E. See an authorised Quadro centre or qualified workshop for cleaning
	F. Clogged engine	F. Remove the spark plug and vaporise fuel inside the cylinder. See an authorised Quadro centre or qualified workshop
	G. Blown fuse	G. Replace the blown fuse and have the vehicle checked by an authorised Quadro centre or qualified workshop
Reduced braking power	A. Damages to the brake lines	A. See an authorised Quadro centre or qualified workshop to have the component(s) replaced
	B. Brake linings or tyres too worn	B. See an authorised Quadro centre or qualified workshop to have the component(s) replaced
	C. Brake disc greasy	C. See an authorised Quadro centre or qualified workshop
	D. Brake pads worn	D. See an authorised Quadro centre or qualified workshop to have the component(s) replaced
	E. Air in the front and rear brake circuits	E. See an authorised Quadro centre or qualified workshop
Noisy Operation	A. Worn bearings	A. See an authorised Quadro centre or qualified workshop to have the component(s) replaced
	B. Damaged silencer	B. See an authorised Quadro centre or qualified workshop to have the component(s) replaced
	C. Problems with the cylinder head	C. See an authorised Quadro centre or qualified workshop to have the component(s) replaced
The vehicle will not move	A. Parking brake and/or tilting lock engaged	A. Release the parking brake and/or tilting lock
The engine stalls	A. Air or fuel filter clogged	A. Have the filter cleaned by an authorised Quadro centre or qualified workshop
	B. Silencer clogged	B. See an authorised Quadro centre or qualified workshop
	C. Fuel tank empty	C. Check the fuel level
Suspension ineffective	A. Loss of efficiency / alignment	A. See an authorised Quadro centre or qualified workshop
Poor performance, high fuel consumption	A. Clogged or dirty air filter.	A. Have the filter cleaned by an authorised Quadro centre or qualified workshop

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TECHNICAL DATA 6

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.

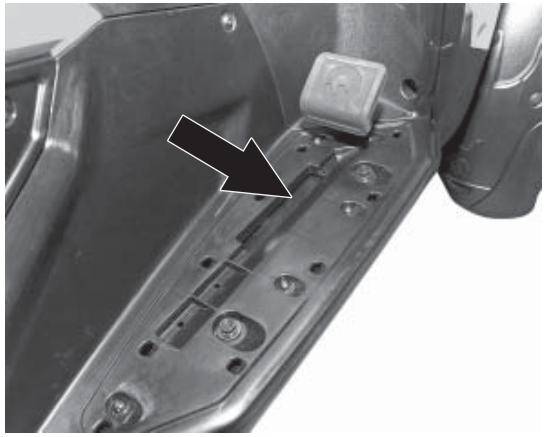

fig. 1

Engine number

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

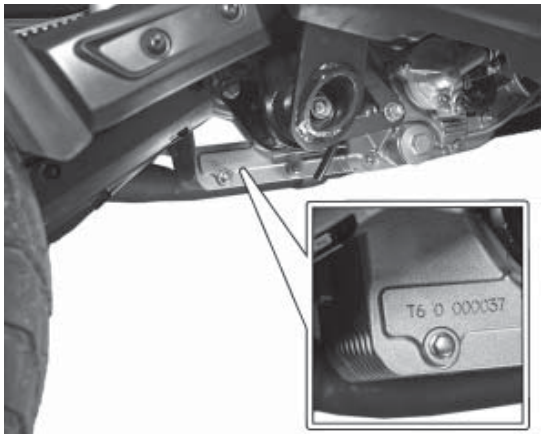

fig. 2

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
Timing	Single overhead cam
Displacement	346 cm^3
Bore	82 mm
Stroke	65.6 mm
Compression ratio	10.6 : 1
Starting System	Electronic
Lubrication system	Wet-sump
Air filter	Paper element
Ignition spark plug	NGK CR8E (spark gap 0.7 - 0.8 mm)

PRODUCTS

Engine oil	SAE 10W40 or SAE 10W50
Final drive oil	85W140 GL-5 or equivalent
Engine coolant	PARAFLU-UP
Braking fluid	DOT4
Fuel	Unleaded petrol, min. 95 RON octane rating.

CAPACITIES

Engine lubrication system	2.1 ÷ 2.3 litres (*) (sump only) 2.2 ÷ 2.4 litres (*) (sump + filter)
Final drive lubrication system	1000 cm^3
Engine cooling system	1200 cm^3 (radiator + system) Maximum 250 cm^3 (expansion tank)
Fuel	14 litres Reserve capacity: 2.9 l

(*) Depending on the scooter chassis number, for the correct amount of engine oil consult the "Oil window table" on page 30.


A
C
D
E
B
H
F
G

DIMENSIONS

Reference	Description	Value (mm)
A	Overall length	2200
B	Wheelbase	1580
C	Total height (to cowl)	1340
D	Seat height	780
E	Distance from ground	125
F	Front track	550
G	Rear track	450
H	Total width (at handlebars)	800

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	Halogen H8	2	12V	35 W
Full-beam headlights	Halogen H8	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
Number-plate light	Incandescent	1	12V	5 W
Helmet box light	Led	1	12V	0.82 W

BRAKING SYSTEM

Type	Disc brakes, 2 front, 2 rear
Disc diameter	240 mm

CLUTCH

Type	Automatic dry centrifugal

TRANSMISSION

Primary	CVT
Secondary	Helical reduction gears in oil bath with integrated differential
Final drive	Timing belt

FRAME

Type	Steel tubes and sheet

SUSPENSIONS

Front, Rear	HTS (oleo-pneumatic tilting suspension)

BATTERY

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

WEIGHTS AND LOADS

Unladen mass (including engine oil, final drive oil, engine coolant)	269 kg
Mass in running order	279 kg
Passenger capacity	2 (driver + passenger)
Maximum permissible load	500 kg

RIMS

Type	Alloy
Dimensions	MT14 x 2.75

TYRES

Type	Tubeless
Dimensions (front and rear)	110/80-14 M/C 53P or 110/80-14 M/C 59P

TYRE PRESSURE

Front	1.5 bar
Rear	1.5 bar

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