

Scoot'elec User Manual

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1 mile = 1.6 kilometres
1 kilometre = 0.62 miles
1 livre = 0.45 kilogrammes
1 kilogramme = 2.2 livres

Introduction

This manual is your guide for driving, use and basic maintenance of your PEUGEOT electric Scooter.

Your electric scooter has been given the name Scoot'elec, a name which embodies its international ambitions.

Take the time to read this document carefully.

As for all high technology machines, the care and attention with which you use and maintain your Scooter will guarantee problem-free driving and maximum performance.

Your PEUGEOT MOTOCYCLES dealer is there to advise and inform you and his expertise is available for carrying out the maintenance of your vehicle and battery with care and to maintain them in perfect working order.

Your PEUGEOT MOTOCYCLES Scoot'elec registered dealer knows all about the special features of your Scooter.

He has all PEUGEOT original parts at his disposal as well as the special tooling for carrying out routine maintenance of your Scooter in the best conditions.

We would like to thank you for having chosen PEUGEOT and guarantee that your electric scooter will give you many years of safe and happy transport.

For now, we want to congratulate you for having the will to see things differently.

Safety advice

The safety of the vehicle depends on the care of the driver.

High speed is a decisive factor in many accidents. Obey speed limits and never drive faster than safety conditions allow.

Beware of the risk of slipping on road markings.

Before use, always carry out a general check to make sure that the vehicle can be used in all safety.

Road safety regulations mean that wearing a helmet is compulsory for the driver and passengers under fourteen. It is also recommended to wear gloves, eye protection and bright and visible clothing to increase your safety.

A new electric scooter driver must familiarise himself with his vehicle before driving in traffic.

Do not forget that your scooter does not make any noise due to its electric motor and therefore pedestrians are more likely to be taken unawares.

BE DOUBLY CAREFUL

Safety advice

An electric scooter driver must inform other road users of his presence by :

- ***avoiding driving in areas of non visibility for other drivers.***
- ***driving carefully at junctions, in car parks, at exits and slip roads.***

Your electric scooter is designed for urban use and for driving on road surfaces only.

The baggage holders or bags available as options are designed for carrying light objects.

Make sure that weight is evenly distributed and that any objects are firmly secured in place.

Your scooter has been designed in accordance with legal requirements. Do not carry out any modifications on your electric scooter.

Only use products which have been tested and recommended by PEUGEOT MOTOCYCLES.

The scooter battery contains electrolyte; in the event of electrolyte getting on :

- ***SKIN: rinse the affected area immediately,***
- ***EYES: rinse immediately and see a doctor.***

IMPORTANT

When charging the battery, take all the normal precautions for electrical equipment.

As a small amount of hydrogen is given off when charging the battery, make sure that the garage is adequately ventilated if carrying out this operation at home.

The charger plug must be connected to a socket with standardised earth.

No work must be carried out on the scooter if the charging plug is connected to the mains (*no dismantling of caps or protections, no washing etc....*).

If work is absolutely necessary :

- ***disconnect the charger from the mains to avoid the risk of electrocution.***
- ***disconnect the battery to avoid a short circuit which would cause irreparable damage to your Scoot'elec (first, remove the negative lead - identified by green marks).***

Presentation

Your electric scooter is equipped with an 18 volt D.C. motor supplied by a traction battery (*the term battery covers all the monoblocs*), made up of three 6 volt CADMIUM - NICKEL type batteries.

An electronic control unit (*ECU*) records, manages and checks the drivers commands, use of electric power and operational safety.

An onboard charger allows the traction battery to be recharged.

WARNING

Do not fit any electric accessories (for example radio, CB or alarm) which have not been approved by PEUGEOT MOTOCYCLES as they could interfere with or damage onboard electronic systems.

Furthermore, during charging interference could affect radios or television sets within a 2m radius around the scooter.

If you fit a windscreen -pay attention do not cut or pinch a electric cable . Dismantle the head light to lock at the mounting of the windscreen

Driving

- Driving an electric scooter is similar to driving a combustion powered vehicle, but requires a few specific precautions and getting used to.
- the maximum legal speed is 45km/h-28miles/h and the autonomy following a full charge gives approximately one hour's driving .

To get the most out of your scooter's autonomy :

- adopt a relaxed style of driving avoiding harsh braking.
- to slow down, use the motor brake which can be obtained by releasing the accelerator handle; furthermore, this deceleration allows energy to be recovered.
- make sure that **tyres are at the right pressure (2.5 bars)** and that the brake free travel is correctly adjusted (*page 18*).
- preferably, carry out full charges, i.e., until the warning light goes out. 

Driving battery

The NICKEL CADMIUM driving battery requires periodic maintenance signalled by the lighting up of the "maintenance" warning light on the instrument panel. 

This maintenance must be made two or three times a year

This maintenance operation can only be carried out by a PEUGEOT MOTOCYCLES Scoot'elec registered dealer.

During charging: Warning - no flames or sparks should be used near the battery due to a small amount of hydrogen being released.

Battery electrolyte is a corrosive, alkaline solution.

In the event of contact with the skin :
wash immediately with water.

In the event of contact with eyes :
wash immediately with water and **see a doctor**.

If liquid appears under the vehicle :
dilute with water and sponge away wearing rubber gloves. Inform your PEUGEOT MOTOCYCLES dealer.

Recycling of the three monoblocs making up the battery :

At the end of their life, these monoblocs should be taken to a dealer's who will deal with recycling them.

Battery charging

Connect the charge lead plug (located under the seat) to a 230V - 10A/16A mains socket with earth and protected by differential circuit breaker of 30 mA.

The charge light  will light up on the instrument panel and a beep will be heard.

As soon as maximum capacity is reached, charging is stopped automatically and the light  will go out. Make sure the lead is replaced under the seat before using the vehicle.

The use of an extension lead is not advised. If you have no other option, make sure a "STANDARDISED" extension lead is used, i.e., a lead which can withstand at least 10 Amps and has an earth wire.

As the charge is controlled both in terms of time and temperature by the electronic control unit, it is not advised to use a programmer.

Duration of complete charge (*battery empty*) *approximately 5h.*

Note:

If the temperature of the battery is high, charging will only begin after an automatically controlled cooling period (resulting in charging time being increased by the same amount). The H warning light  will flash on and off until charging is started automatically.

During charging, it is normal to witness a rise in temperature at the rear of the vehicle caused by the cooling fan. Do not obstruct the air outlet underneath the red light (*no cover, no cagoule to dry....*).

Charging can be carried out at all times whatever is shown on the energy gauge or on the battery charge warning light  (*lit, off, flashing*).

Nevertheless, you are advised to carry out a full charge as regularly as possible (*until the warning light  goes out*).

If the vehicle is not used for more than a week, several "charging and discharging" cycles may be necessary for the full capacity of the battery to be reached.

Once the charge is complete, the lead can remain connected up to the next time it is used.

Rapid charge option

A specific external charger is necessary in order to carry out this type of charge. The time saved compared to a normal charge is 50%.

A PEUGEOT MOTOCYCLES dealer is at your disposal for fitting a special socket on your scooter and to supply you with this optional charger.

In this case, your charging location must be equipped with two 230V 10A/16A sockets.

Warning

- During charging, it is prohibited to carry out any work on the vehicle.
In particular: no washing, no dismantling, no movement (*nor taking off stand*).
- **charging must be carried out in a well ventilated room** and away from flames or sparks due to a small amount of hydrogen being released.

In particular : do not carry out charging in a boiler room or near to an electric switch.

If liquid appears under the vehicle after charging, dilute with water and wipe away wearing compulsory rubber gloves. Inform your PEUGEOT MOTOCYCLES dealer.

Battery maintenance

This maintenance is to be carried out by a Scoot'elec registered dealer when the battery maintenance warning light  signals that it is necessary.

 off	 off	No maintenance necessary
 off	 slow flashing	Maintenance to be planned in 150 to 200km - 90 to 120 miles depending on the type of use
 off	 rapid flashing	Maintenance compulsory performance is dropping
 lit	 rapid flashing	Maintenance compulsory vehicle blocked Only handling mode is possible (see page 14)

Note :

If you do not carry out this maintenance, the electronic safety function will gradually reduce performance until the scooter comes to a complete standstill. It will only start to function normally once this maintenance has been carried out.

IMPORTANT

The battery guarantee is subject to this maintenance being carried out correctly. A specific procedure and a product satisfying PEUGEOT MOTOCYCLES's standards are compulsory for this maintenance.

Your PEUGEOT MOTOCYCLES Scoot'elec registered dealer is trained in this technique and has the necessary product for carrying out this operation.

Under no circumstances must you pour any liquid whatsoever (*including water for the battery and acid even less so*) into the maintenance hole located under the seat as this could cause irreparable damage to the batteries.

A safety element records in the ECU every time this hole is opened and in the event of this hole being opened without authorisation, a warning is given on the instrument panel.

All the warning lights flasching



with “beep” “beep”

In order to carry out this maintenance operation, the dealer will have to immobilise your scooter during a period of approximately 12 hours (*for example one night*).

This maintenance operation is necessary approximately three times per year for average use. This frequency may vary depending on use. It is automatically controlled by the ECU.

Anti-theft advice

Your Scooter is equipped with several anti-theft devices :

- steering anti-theft device (*see page 15*).
- a coded anti-start device (*see pages 13 and 19*).
- a steel ring incorporated into the side of the vehicle.

Never leave the keys on your vehicle when parked.

Put your helmet in its housing and lock the steering.

Make sure you have the following information relating to the vehicle:

- **engine, chassis numbers**
- **insurance certificate**
- **key numbers**
- location of the manufacturer's plate (*right hand side above the stand*).

We advise that you purchase an additional good quality anti-theft device for attaching your scooter to a fixed point using the ring bonded into the frame.

We have provided a place under the seat for storing a "U" type locking device. Your PEUGEOT MOTOCYCLES dealer will be able to supply you with a locking device which will fit perfectly into this storage space.

Braking

For your safety, we recommend that you monitor the functioning of the front and rear brakes.

We advise that you take your scooter to a PEUGEOT MOTOCYCLES dealer for adjustment and maintenance operations.

Reduce speed by releasing the accelerator handle (the deceleration thus obtained allows energy to be recovered).

Action the front and rear brakes.

WARNING : *use of one brake only reduces braking efficiency. When going down a steep slope, cut off acceleration completely and use both brakes to reduce speed and maintain control of the vehicle.*

Avoid using the brakes constantly, overheating will reduce braking efficiency.

Operating instructions

Speedometer (C)

The needle indicates speed of movement of the vehicle in km/h and miles/h.

The mileage counter shows the total distance travelled (in km).

Switch on and lock keys

2 keys identified by a number are supplied with the vehicle.

We recommend that they are kept separately and that the reference numbers are noted down.
The key is used to:

- ***switch on the scooter for starting***
- ***lock the steering***
- ***unlock the seat.***

Starting switch

Motor off - Steering locked - only position in which the key can be introduced or withdrawn.

Motor off - Steering not locked - position for moving scooter in garage.

Position of electric contact.

All electric functions can be used.

Lighting switch

The front and rear lights are lit.

Lighting off : button pushed downwards.

Indicator switch

To signal a change in direction :

- *right turn, push the switch to*
- *left turn, push the switch to*

The indicators can be stopped by moving the switch back to the central position.

Besides a warning light lighting up on the instrument panel, a beeping noise confirms that the indicators are working properly.

An increase in the frequency of flashing, indicates a faulty bulb.

Functioning instructions

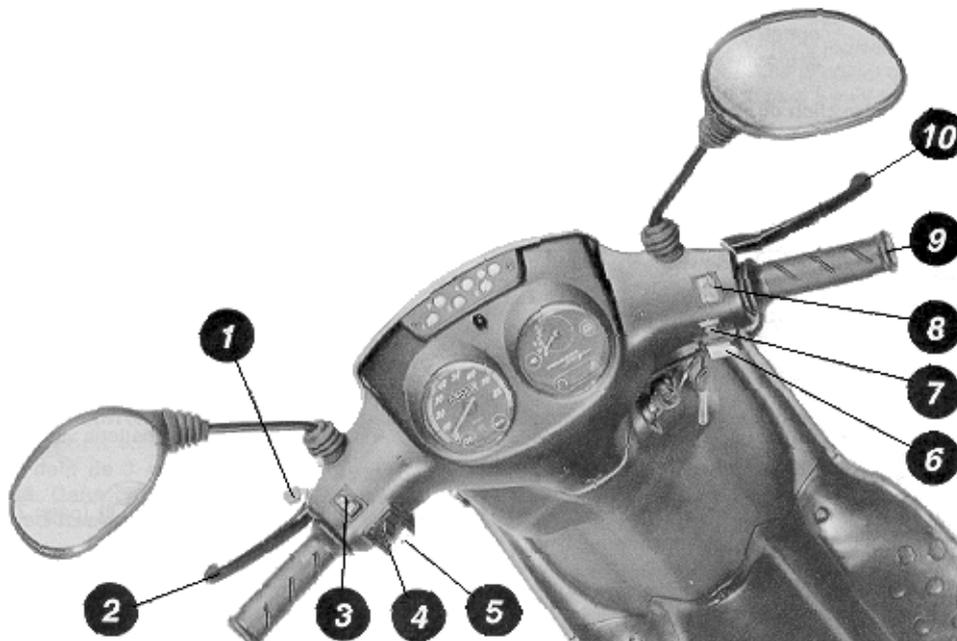
Horn

To activate the horns, press the following buttons:

- **pedestrian horn** (*so that pedestrians may be aware of your vehicle*)
- **road horn**

Driver's cockpit

- 1 parking brake
- 2 rear brake lever
- 3 light switch
- 4 indicator switch
- 5 road horn button
- 6 drive mode switch: normal or handling (start)
- 7 pedestrian horn button
- 8 Kill switch (*safety switch*)
- 9 rotating accelerator handle
- 10 front brake lever



Instrument panel

A Multi function key pad

1st function: **coded anti start**

entering confidential code (page 13)
changing confidential code (page 14)

2nd function: **choice of driving mode** (page 14)

ECONOMY MODE
NORMAL MODE

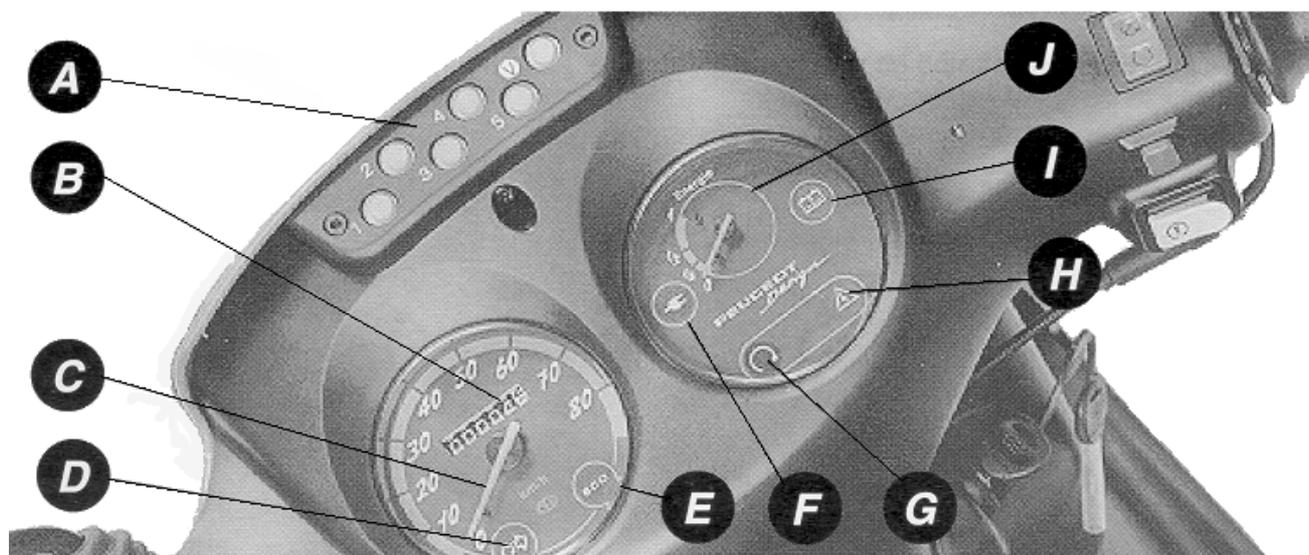
B Mileage counter (km)

C Speedometer (km/h and m/h)

D Indicator light 

E Economy mode tell tale light 

selection of ECO mode using the key pad (page 14)
light on = economy driving mode engaged
light off = normal driving mode engaged



Instrument panel

F Plug charging tell tale light : 
when driving:

slow flashing = reserve
Plan a battery charge

when recharging the battery :

light on = charging in process
light off = charging complete

G Operating light : 

Light on = normal driving mode (page 13).

Quick flashing = handling mode.

Slow flashing = vehicle locked by kill switch and (or) throttle grip not in off position.

Simultaneous flashing of G and H =  

Vehicle immobilised by anti start code.

H Defect warning light : 

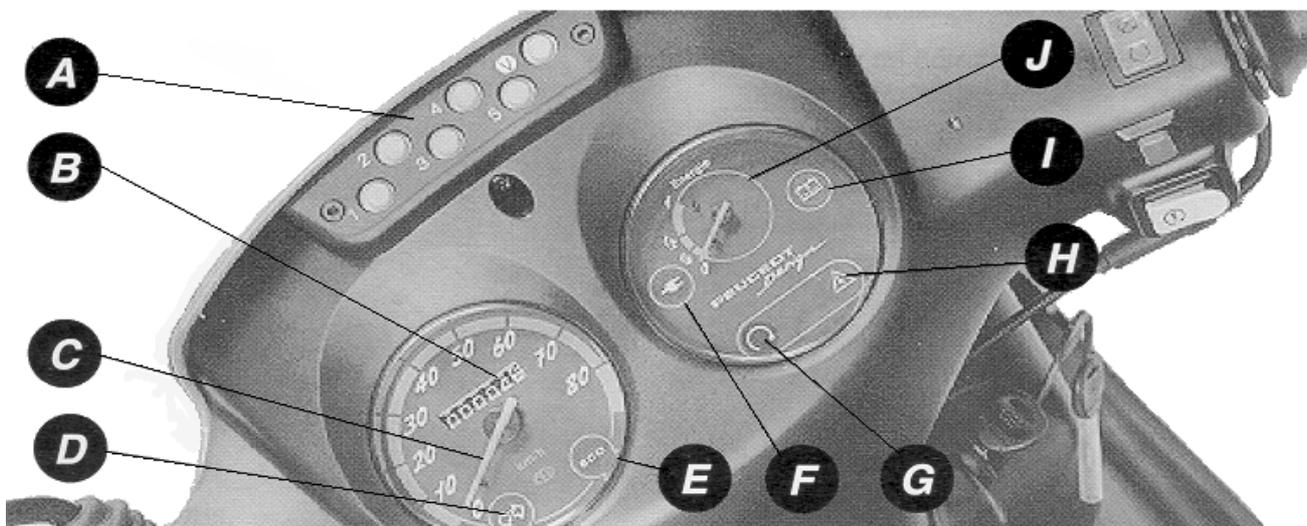
Slow flashing = temporary fault (page 14).

Light on = permanent fault or battery empty.

I Battery maintenance light (page 7) 

Quick or slow flashing = maintenance necessary.

J Energy level indicator.



Checks to be carried out each time vehicle is used : *(with vehicle on its stand)*

-
- Disconnect the charge lead from the 230V mains socket if necessary and put it back into its housing.
- turn the starter key into the ON position.
- check that the lights, indicators and brake lights are working.

Make sure that the energy reserve is sufficient by checking the energy gauge (J).

Starting

1. **Take the vehicle off its stand** and sit down on the seat.
2. **Turn the starter key** to ON.

The vehicle is immobilised by the anti start code, the warning lights flash slowly *(if this is not the case, see a dealer)*.



3. **Key in your confidential code number** on the key pad.
Each time a key is pressed, a bleeping sound should be heard.

Note: you should not key in the code numbers too quickly, but leave a short interval between each.

Code correct :



All warning lights come on during 1 second *(except indicators)*



Code incorrect:

try your code again after 10 seconds.

After three attempts, the vehicle is blocked. In this case, wait 15 minutes and then try your code again.

4. **The vehicle is ready to move off in handling mode.** 

The warning light starts to flash quickly. *(If this warning light flashes slowly : the safety button is activated: switch it to the correct position or bring the throttle grip back to zero).*

5. **Press the driving mode button** (start) handle turns when not in motion.

The warning light  comes on permanently. The vehicle is in normal speed mode and will start to move as soon as the handle is turned.

Note :

In case of problems with the key pad, proceed as follows to key in your code.

- Press the driving mode button (START 6 page 10) as many times as the number you want to key in *(to key in the number 5, press 5 times).*
- Confirm this number by putting on the rear or front brake (2 page 10).
- Key in the four figures of your code number in this way.

Note :

In case the start position is left on accidentally, the system will switch off automatically after 5 minutes. To restart the vehicle, it is necessary to switch off and then turn back on after 2 seconds.

In the same way, if the scooter was turned ON during charging, then once the charge is over the system cuts out completely.

In order to start, once the charger is disconnected, it is necessary to switch off and then on again after 2 seconds.

Handling mode

This is obtained :

- automatically on starting for your safety (see paragraph on Starting, page 13).
- on request, in alternation with normal mode by pressing the drive button (START) when the vehicle is at a standstill. This functioning mode limits speed to approximately 7km/h-4 miles/h maximum when turning the throttle grip. This will enable you to push and manoeuvre your vehicle in complete safety.

Driving

This vehicle has 2 modes of functioning :

- **Economy mode** - speed is reduced and consequently autonomy is increased (up to 60km-37miles).
Press the V button followed by button 1 on the key pad, the E tell tale comes on .
- **Normal mode** - maximum speed is 45km/h-28 miles/h and autonomy corresponds to approximately 1 hour's driving.
Press the V button followed by button 2 on the key pad, the E  tell tale goes out.

Note 1:

Once the warning light F  starts to flash, this means that 20% of the energy remains. It is therefore recommended (in order to increase autonomy) to change into economy mode by pressing the V key followed by key n°.1. Charge the vehicle as soon as possible, otherwise vehicle performance will decrease until eventually it comes to a standstill. The warning light H  will come on showing that the battery is completely discharged.

Note 2:

If the warning light H  flashes slowly :

- temporary fault detected by the ECU which could lead to an automatic reduction in speed.
- you can continue to drive at reduced speed.

If the warning light H  stays on :

- permanent fault
Contact your dealer.

Parking

Switch off the vehicle (turn the key to the OFF position).

This stops the vehicle's electric functions and automatically activates the anti start code.

This is signalled by a rapid flashing of the warning lights   during 5 seconds. (If the warning lights do not flash, see your dealer).

The vehicle will only restart after switching on again and once the confidential code number has been keyed in (see paragraph on starting (page 13)).

Note:

If you forget to switch off the vehicle, the electronic control unit will cut off all electric supply after 5 minutes.

In this case, to restart the vehicle, turn the key to the OFF position and turn back on after 2 seconds by turning the key to the ON position.

Parking brake (1 page 10)

Locking

With the left brake handle squeezed (1 page 10), press the parking brake button and release the handle.

Unlocking

Squeeze the left brake handle and then release it in order to unlock the parking brake.

Operating instructions

Placing on stand

The stand is equipped with levers which facilitates this operation.

- Stand by the side of your scooter.
- Make sure the vehicle is in a vertical position by holding the handlebars and the handle located behind the seat.
- With your foot, press down on the stand lever whilst gently pulling the vehicle to the rear by the handlebars and the seat handle.

Warning

Once on its stand, make sure that the vehicle is stable so as to avoid any risk of its falling over which might cause bodily harm or **damage** to the scooter.

Kill switch

- Pressing this button (**8** page 10) stops the motor and prevents the vehicle starting (the warning lights   start to flash).

In order to use the vehicle again, it is necessary to :

- moving the switch the button back to its original position.
- switch off using the key and back on again after 2 seconds.
- check that the accelerator handle is at rest.
- key in the confidential code.

Steering anti-theft protection

To lock the steering :

turn the handlebars fully to the left, push whilst turning the key to the  position.
The key can be withdrawn.

Putting the key in the garage position enables the vehicle to be moved.
The key can not be withdrawn.

Housing for demi-jet helmet

Opening :

unlock and turn the steering to the right.
Press button **A** and tilt the cover forwards.

Seat

Opening :

Put the start key into the lock at the rear left hand side, turn it a quarter turn towards the rear and raise the seat.

Closing:

press down on the rear part of the seat: the key is not necessary.

The seat storage compartment gives access to :

- the battery charging lead,
- the extra charging plug (*option*),
- the maintenance equipment (*reserved for PEUGEOT MOTOCYCLES dealers*),
- the housing of the U type anti-theft device.

Lighting and indicators

Correct functioning of the lighting and indicating equipment constitutes an essential safety factor.

Before setting off and while driving the scooter, the driver must make sure that the various lights carry out the function for which they are intended properly.

Light specifications

Driving light / dipped headlights	15W P26S
Parking light	N/A
Stop and rear light	21/5W BAY 15D
Indicators	10W BA 15S
Speedometer light	1.2W T5 (<i>without cap</i>)
Tell tales	2W T5 (<i>without cap</i>)

All bulbs are 12 volts

In case any of the lights do not function correctly, get in touch with a PEUGEOT MOTOCYCLES distributor.

Changing bulbs

At the front :

:

Headlight

- remove the 4 side screws
- remove the upper screw
-
- tilt the whole headlight + casing assembly
- change the bulb

Adjusting the headlight. use the adjustment screw to adjust the vertical orientation of the headlight.

Indicators

- remove the screw **(B)** and the cover glass
- change the bulb

At the rear :

Red lights - stop - indicators

- remove the 2 screws **(C)** and the cover glasses
- change the bulb or bulbs

Maintenance and adjustments

Relay box, reduction box :

- (1)** Level screw
- (2)** Bleeding screw

Checking the oil level

Having positioned the vehicle on its stand on a level surface, unscrew and remove the screw **(1)**. The correct level is shown level with the screw thread **(1)**.

Brakes

Adjustment

Adjustment operations are identical for the front and the rear.

Lever free travel :

Lever free travel is the distance moved by the lever before the brake starts to work.

Adjusting the free travel :

Free travel : 10 to 20mm, measured at the tip of the lever.

(1) Adjustment nut :

Unscrew = increase the free travel

Screw = reduce the free travel

If the free travel is not sufficient, this could lead to the linings rubbing slightly, which has a negative effect on vehicle autonomy.

Wear zone on rear brake :

(1) Reference mark

(2) Arrow

If the arrow is opposite the mark with the brake fully applied, this means the brake shoes must be replaced.

Tyre pressure

Check tyre pressure regularly and adjust it if necessary.

The following specifications apply :

Tyres	Inflation pressure when cold	
100/80 x 10	Front	2.5 bars 0.25 MPa
110/80 x 10	Rear	2.5 bars 0.25 MPa

Note: Mpa = Megapascal

1 bar = 1.02 kg/cm² = 0.1Mpa

Incorrect tyre pressure leads to abnormal wear of the tread, is harmful to safety and **reduces autonomy**.

It is dangerous to drive with worn tyres (the use of worn tyres is illegal and affects steering, braking, traction and road holding ability).

Wheels

This scooter is equipped with tyres without an inner tube. The inscription Tubeless on the side of the tyres and on the wheel rims indicates that these parts have been specially designed for use without an inner tube.

The wheel rims are fitted with corresponding valves. If they require replacing, only use tyres and rims marked Tubeless.

Go to a PEUGEOT MOTOCYCLES dealer for any repair or replacement operations on the Tubeless tyres.

DANGER

Do not put an inner tube in a Tubeless tyre or Tubeless tyre on a standard rim (danger of bursting).

Performance and specifications table of the PEUGEOT electric scooter

Motor part

Motor	Direct current and separate excitation
Battery	3 Nickel-cadmium monoblocs - 100Ah - 6 Volts
Charger	1400 Watts - consumption 7 Amps maximum
Transmission	Double stage : belt and gears
Reduction box	Capacity: 0.12 l Oil: ESSO GEAR OIL BV 75W - 80W

Performances

Autonomy at steady speed 45km/h-28m/h	45 km-28miles (in city 30 km-19miles)*
Maximum speed	45km/h-28miles/h (in accordance with regulations)
10m from standing start	3.2 seconds
100m from standing start	12 seconds
Engine brake	Yes - energy recovery system
Choice of driving mode	By the driver - normal (45 km/h-28miles/h) or ECO (30 km/h-19miles/h)

Charging time and maintenance

Complete charge time	5 hours
95% charge time	2 hours
Charge mode	By onboard charger from a 230 V 10/16A socket with earth
Partial charge	10 minutes = 5.5km-3miles in ECO * mode
Partial charge (with optional charger)	10 minutes = 11km -6miles in ECO * mode
Battery maintenance	According to control light

Cycle part

Chassis	Double cradle
Body work	ABS "choc"
Front suspension	Telescopic fork
Rear suspension	Hydraulic single shock absorber
Front tyres (<i>metric dimensions</i>)	100/80 x 10 Pressure 2.5 bars
Rear tyres (<i>metric dimensions</i>)	110/80 x 10 Pressure 2.5 bars
Front and rear brakes	Drum diameter 110 mm

Weight and dimensions

Weight	115 kg-250 pounds
Wheel base	1300 mm
Height of seat	783 mm
Overall length	1755 mm
Overall width	800 mm including both rear view mirrors

Equipment

Anti-theft devices	Electronic through coded anti-start system Mechanical by locking the steering - steel ring incorporated into the chassis
Electric horns (<i>two</i>)	Road - pedestrian
Indicator sound repeater	Yes
Jet-in housing	Demi-jet helmet housing at the front of the vehicle 3kg maxi
Rear view mirrors	2
Handling speed	Yes (<i>7km/h-4miles/h maxi</i>)
Parking brake	Yes
Rear foot rest	Yes

Optional equipment

Extra charger	1400 W -230V
Windscreen	
Top-case	
Bag hook	

* for information only

Maintenance plan

	when the maintenance warning light comes on 	at 500 km/310 m
		NORMAL every 5000 km/3100 m
		HEAVY DUTY every 2500 km/1550 m
Battery maintenance	●	
Diagnosis reading	●	●
Check control of commands accelerator, brakes		●
Check brake linings		●
Tyres: state and pressure		●
Functioning of electrical equipment		●
Tightening of nuts and bolts		●
Vehicle test		●

MOTOR	at 500 km 310 m	Every 20 000 km 12 400 m	Every 40 000 km 24 800 m
Draining reduction Box	●	●	
Belt		R	
Brushes		C	R

C : Check and replace if necessary
R : Replace