

## User manual





# LIGIER GROUP would like to thank you

Thank you for choosing one of our products. This manual has been designed to present you with all our product quality features.

Please read it in detail before driving the vehicle for the first time.

You will find information, recommendations and instructions

for use, as well as special features, details and tips confirming that you have made the right choice.

After reading this manual, you will easily become familiar with your new vehicle and will use it for a long time giving you full satisfaction.

## Manual

Some of the photographs, illustrations and descriptions in this service manual do not necessarily correspond to the vehicle model used.

The instructions in this manual have been written primarily to provide a simple and clear guide to use your vehicle, as well as basic maintenance operations and periodic checks to be carried out by approved professionals. The booklet also contains instructions for simple repairs.

The operations which are not explicitly described in the booklet require special tools and/or specialised technical knowledge; we therefore recommend that you contact **LIGIER GROUP** Approved Dealer.

The text on a grey background or in bold contains important information for the use of the vehicle and for your safety.

## **Energy-efficient driving**

#### What is Energy-efficient driving?

Energy-efficient driving is a responsible way of driving that aims to reduce the energy consumption used to move around and thus optimise the vehicle's life.

#### Key points:

- Drive smoothly, avoiding sudden accelerations.
- Use the "energy-efficient" mode as often as possible, as this allows you to "reduce" accelerations and reduce the consumption of certain on-board components.
- Use regenerative braking to recover energy. This phenomenon, unique to hybrid and electric cars, allows the traction batteries to be recharged by using the "engine brake" function before the brake pedal is used.
- Anticipate recharging every day at home and locate available and compatible charging stations on your route before leaving home.
- Know how to use the electrical equipment. Auxiliary equipment (e.g. air conditioning, radio, heating, etc.) must be used wisely so as not to affect the battery life.
- Follow the recommended maintenance instructions and regularly check the tyre pressure according to the manufacturer's recommendations.

#### **Driving tips**

- Respect the Highway Code and remain alert in all traffic conditions
- Keep your hands on the wheel so you can respond effectively at any time
- Drive smoothly

It is strongly recommended that you do not drive on flooded roads as this could cause serious damage to the engine and electrical systems under the vehicle.



### In the event of an accident or impact on the vehicle's underbody

In these situations, the electrical system or the traction battery can be seriously damaged.

- Park in the best possible safety conditions.
- Engage the parking brake and turn off the ignition.
- Call the authorised network as soon as possible.

#### In case of exposure to fire

- Exit the vehicle and evacuate immediately; never attempt to fight the fire risk of explosion!
- Immediately contact the emergency services and inform them that the vehicle is electric.

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## 1.1 - DRIVER'S SEAT



- 1. 3-position main key switch
- 2. Headlight, indicator, horn & front (depending on model) & rear fog light switch
- 3. Dashboard
- Car radio (depending on model)\*
- 5. Front windscreen wiper switch (depending on model)

- 6. Central panel
- 7. Glove box (lift handle to open)
- 8. Brake pedal
- 9. Accelerator pedal
- **10.** Forward drive, neutral and reverse (DNR) button
- 11. Air vents





- 1. Driver's seat sun visor, with storage for documents, can be moved to the side to protect the driver from reflected glare.
- 2. Inside roof light, 3 positions with function selection button.



Always on.

Always off.

On when a door is opened, turns off when the door is closed.

## 

Leaving the roof light on when the engine is off will cause the battery to discharge and may cause irreversible damage to the battery.



3. Passenger sun visor, can be turned sideways.





**4.** Driver and passenger seat belts anchor points (Photo 3).

**5.** Driver and, depending on the model, passenger seat depth adjustment lever. Lift the handle to release the slide and release to lock (Photo 4).

**6.** Use the lever to tilt the backrest, in the same way for both seats (Photo 3).

## 1.2 - DASHBOARD



- 1. Forward "D", neutral "N", and reverse "R" indicator
- 2. Indicator operating light
- 3. Speedometer
- 4. ECO mode on indicator light
- 5. Power steering fault indicator light
- 6. Rear window demister indicator light
- 7. Windscreen demister indicator light
- 8. Rear fog light indicator light
- 9. High beam indicator light
- 10. Low beam indicator light
- 11. Pilot light indicator light

- 12. 12V battery fault indicator light
- **13.** Parking brake and brake fluid level indicator (alerts if the hand brake lever is lowered)
- 14. Total or daily mileage
- **15.** Wrench maintenance indicator light
- 16. Traction battery gauge
- **17.** Traction battery low level indicator light
- **18.** Power cable connected to vehicle indicator light
- **19.** Traction battery fault indicator light
- 20. Motor fault indicator light
- 21. Major fault indicator light

## Dashboard warning lights



#### Hand brake engaged and brake fluid level indicator

Off when the hand brake is released.

Lights up when the brake fluid level is too low.

If it is permanently lit, contact the Ligier Group network as soon as possible.



#### 12V battery charge message

Must be switched off when the vehicle is in motion. If it is permanently lit, contact the **Ligier Group** network as soon as possible.



#### Motor fault indicator

If it is permanently lit, contact the Ligier Group network as soon as possible.



#### Power steering fault indicator

When starting up, the EPS indicator on the meter automatically lights up during its test phase.

If it is permanently lit, the EPS functions are inoperative, however the vehicle can still be used, contact the **Ligier Group** network as soon as possible.



#### Traction battery low level indicator

The car's performance levels are reduced



#### Traction battery fault indicator

If it is permanently lit, contact the Ligier Group network as soon as possible.



#### Major fault indicator light

Stop the vehicle immediately and contact the **Ligier Group** network as soon as possible.

## **Maintenance frequency**

Turn the ignition key to the ACC (Accessory) position.

When the countdown reaches 500 km, the wrench light 19 flashes. When the countdown reaches 0 km, the wrench light is permanently lit.



## 1.3 - CONTROLS

# Total and partial mileage and remaining range

Press the button **A** several times to reach the required mileage.

Once you have reached the correct mileage, press and hold button **A** until it resets



## **Driving mode buttons**

D ForwardN NeutralR ReverseECO Power saving mode

To drive forward, press button D while holding down the brake pedal and accelerate gradually after releasing the brake pedal. "D" lights up on the digital display.

To reverse, press the **R** button while holding down the brake pedal. If the vehicle is fitted with the reversing radar, the beep will sound. The **R** lights up on the digital display and the reversing camera is activated on the display.

## ECO Power saving mode

The power saving mode is activated by default.

To exit this mode, press the **ECO** button.

ECO mode is a function that optimises electricity consumption.

It affects certain power consuming elements of the vehicle and certain driving actions (acceleration, deceleration, etc.).

The forward, neutral and reverse buttons should only be operated when the vehicle is stopped.



## Low beam/headlight switch



**A:** press the button to sound the warning signal.

Turn the white dot on knob  $\mathbf{B}$  to position 1 to switch on the front and rear sidelights, to position 2 to switch on the low beam lights, pull the lever towards you to switch on the headlights.

## NOTE: when the headlights are on, the low beam and headlight indicators are on.

Turn the white dot on knob  ${f C}$  to position  ${f 3}$  to switch on the rear fog lights (depending on the model).

Raising the lever switches on the right-hand indicators, lowering the lever switches on the left-hand indicators.

## Windscreen washer / wiper switch

Button **A** is used to reset the daily mileage

Lowering the lever causes the front wipers to move back and forth once.



Raising the lever one notch activates intermittent operation of the front windscreen wiper (depending on the model),  $2^{nd}$  notch: low speed,  $3^{rd}$  notch: high speed.

Use of the washer triggers a back and forth movement of the front windscreen wiper.

#### 

Do not operate the blade on a dirty and dry windscreen. Always use the washer fluid before operating the wiper to avoid scratching the windscreen. Traditional windscreen washer fluid is harmful to the bodywork. Dilute 1 dose of windscreen washer for 10 doses of water.



## Window lift mechanism switch

(Photo 3, depending on model)

If the vehicle is fitted with electric windows, press and hold the button on the required side to lower the window. Release to stop the mechanism at the required height.

Pull the button to raise the window and release to stop the mechanism at the required height.



## Air conditioning

(Photo 4, depending on model)

 $\label{eq:pressing} \mbox{ Pressing button } {\bf 3} \mbox{ activates the air conditioning and ventilation.}$ 

The button lights up when the air conditioning is operating.

To switch off the air conditioning, simply press button **3**. The ventilation remains active. The ventilation button must then be pressed.



## **Heated** seat

(Photo 5, depending on model)

On - off mode: press the button indicated by the arrow (down position: medium heat, up position: high heat, middle position: off)

NOTE: Switching off the ignition will inhibit the operation of the heated seat without changing its initial state (the position used before switching off the ignition is maintained when the vehicle is restarted).



## **1.4 - CENTRAL PANEL**



- **1.** Heating switch (also turns on ventilation)
- 2. Ventilation
- **3.** Emergency lights
- **4.** Rear window demister and heated windscreen demister switch (depending on finish)
- **5.** Air conditioning switch

## **1.5 - OPENING DOORS / BONNET**

- A. Outside door handle (Photo 1).
- B. Inside door handle (Photo 2).
- C. Outside mirror adjustment lever (Photo 3).

## Opening the front bonnet

**D.** Front bonnet release, located under the dashboard on the left. Pull this lever to release the front bonnet (Photo 4) and then push it back.

- Lift the lock 1 lever to release the front bonnet (Photo 5).
- Open the bonnet, unclip the stand 2 from the fastening clip 3 (Photo 6).
- Place the bent end of the stand into the slot 4 of the motor housing cross member (Photo 7).

CAUTION! Doors must not be used as support for entering or exiting the vehicle, as this could cause a misalignment and leaks.





## **1.6 - OPENING THE TAILGATE**



Tailgate release (in the rear wing under the driver's door strike)

## **1.7 - IDENTIFICATION AND KEYS**



## Vehicle identification

Each car is identified with two distinct features:

**Serial number** engraved on the rear right-side tube of the chassis (behind the hatch) (photo 1).





**Manufacturer's plate** with engraved serial number. It is located under the bonnet, riveted to the windscreen scuttle panel (photo 2).

To file a claim or order spare parts, please quote the serial number.

Photo 2





## Keys + remote control

(photo 3)

The vehicle is delivered with a set of 2 keys including the centralised locking remote control.

Each key opens all locks: driver's door and tank cap.

Keep the identification plate attached to the keyring.

#### **Remote control**

- Pressing button 1 unlocks the doors.
- Pressing button 2 locks the doors.

CAUTION! When the lock is actuated with the door(s) open, the door(s) will be locked when slammed.



## **1.8 - USB SOCKETS**



#### **USB** sockets

USB sockets are available next to the car radio for the connection of USB devices.

One allows to charge the connected device and the other allows for connectivity (depending on the model)

CAUTION! Using this socket when the engine is not running will cause the battery to discharge and may damage the battery.





## 2.1 - BEFORE USING THE VEHICLE

Before using your vehicle, it is recommended that you check the level of the gauge on the digital display to ensure that the charging capacity is sufficient for the intended use.

#### Also check:

Tyre pressure and condition Level of windscreen washer fluid and condition of the wiper blades Operation of the signalling components (indicators, emergency lights, lights, brake lights, horn)

## 2.2 - USING THE VEHICLE

- Avoid sudden acceleration
- Avoid hard braking
- Recharge the battery to its maximum capacity every time
- Drive the vehicle smoothly

## 2.3 - START AND STOP

## 2.3.1 - KEY SWITCH / IGNITION



#### **STOP POSITION**

The ignition key in this position switches off the vehicle motor.



## **ACCESSORY POSITION**

Information about the distance remaining before the maintenance indicator light turns on.



## **DRIVING POSITION**

Second notch on the key switch. This position supplies power to all the vehicle components. The digital display lights up.

This position switches on the electric motor, the vehicle is ready for use.

## CAUTION! If the charging system is connected, the vehicle can not be used.

## 2.3.2 - START-UP

- Make sure the charging system is disconnected.
- When the ignition key is in the Automatic Performance Control (APC) position, make sure the vehicle is in neutral (N on the speedometer display).
- Fasten the seat belt.
- Release the hand brake.
- While holding the brake pedal down, select the driving direction on the forward reverse button, then release the brake pedal and accelerate gradually.



## Reversing/park assist camera

(Depending on model)



The camera (item  ${\bf 1}$  photo 3) allows you to detect a possible obstacle behind the vehicle when reversing.

It comes on automatically when engaging reverse.

### **Reversing camera**

(Depending on model)

When reverse is selected, the multimedia system display (picture 4) shows the reversing camera (item **1**, photo 3) and mutes the audio system.



Photos not contractually binding

## **Power steering**

(Depending on model)

This equipment has two functions:

- wheel manoeuvring assistance using the steering wheel (gradually according to the speed of the vehicle)
- assistance in returning the steering wheel to its neutral position (straight wheels) when the driver reduces the necessary effort given on a road bend.

## 2.3.3 - STOP

When the vehicle is no longer to be used:

- Switch off the ignition
- Pull the handbrake
- Connect the charging system

## 2.4 - RECHARGING / STORAGE

## 2.4.1 - RECHARGING OF BATTERY PACK



The battery pack can only be charged using the cable supplied with the vehicle. Position the large cable connector on the vehicle's socket, located on the grille. Push the connector in as far as it will go.

Plug the other end of the cable into a secure, dedicated Household mains power outlet.

A power socket indicator appears on the dashboard and the highest square on the gauge flashes.

#### State, charging level



When the charging system is connected, the charging phases are shown on the digital display.

The continuous charging time of the battery pack varies between 4 hours and 12 hours depending on the state of discharge, outside temperature and number of batteries on the vehicle.

## 

Ensure that the electrical source used for charging is not subject to power cuts that will increase the charging time, or to surges (even temporary) that may damage the vehicle charging circuit.



## 2.4.2. - IMPORTANT SPECIFICATIONS FOR CHARGING

Depending on the type of use of the vehicle, the charging mode and the charging frequency, the normal ageing of the battery pack may cause a loss of capacity of up to 20%.

A full charge is recommended for 30 consecutive days of regular use of the vehicle.

Full charges are essential to balance the internal elements of the battery pack and thus guarantee its durability.

In temperatures equal to or below 3°C, it is strongly recommended to charge vehicle promptly after use. The battery cannot be recharged if any of its internal cells are below 3°C.

## 2.4.3. - IMPORTANT SPECIFICATIONS FOR STORAGE

#### Vehicle immobilised for an extended period of time:

Park the vehicle under shelter from adverse weather conditions with temperatures between  $0^{\circ}$ C and  $+40^{\circ}$ C (parking in extreme temperatures can damage the traction battery).

- The traction battery must be fully charged.
- Disconnect the charging cord.
- Disconnect the 12 V battery.

#### If the vehicle is not used for an extended period of time:

- A full charge is recommended every 3 months,
- A full charge is mandatory every 6 months.

**1000** IMPORTANT! The warranty may be invalidated if the charging and storage recommendations are not complied with.

## 2.4.4 - WARNING CONCERNING THE BATTERY PACK

- NEVER use a water extinguisher or water jet on the battery. Use a dry powder, foam or CO2 extinguisher.
- NEVER open the battery pack or access the areas marked with the black lightning bolt in a yellow triangle logo.



- NEVER modify the vehicle electrical system without the manufacturer's permission.
- ALWAYS perform the recommended checks.
- ALWAYS follow the instructions on the dashboard.
- NEVER remain in the vehicle if there is smoke.
- DO NOT EXCEED the maximum authorised payloads.
- AVOID potholes, obstacles and fords.





## **END OF LIFE**

In use, when the capacity of the battery pack has been consumed, corresponding to the last line on the barograph, the power saving mode will be activated for a few kilometres and then the vehicle will stop.

## **OUTSIDE TEMPERATURE**

If the outside temperature is low, the vehicle may run in power saving mode thus preventing use at full power until the battery temperature returns to normal.



## **RISK PREVENTION**

When the general power supply is active, via the key switch, some components may be in motion (dual windscreen wiper system) or powered by the 12V battery.

▲ Risk of injury
▲ Risk of electric shock

BEFORE WORKING IN THE MOTOR COMPARTMENT, SECURE THE VEHICLE.

## **3.1 - VEHICLE LIFTING POINTS**



## **3.2 - TYRES**





#### IN CASE OF PUNCTURE

The anti-puncture spray is placed behind the driver's seat against the wing outfitting.

- If possible, remove the object that caused the puncture and deflate the tyre if necessary. Position the valve horizontally on the ground.
- Shake the can vigorously. In cold weather, warm the can between your hands.
- Connect the can to the wheel valve.
- Push the valve against the hole in the rim and at the same time activate the can. The can must be in a vertical position, head up. Keep the pressure on for at least one minute.
- Quickly detach the coupling and drive immediately for at least 5 kilometres and then pressurise again.

Check the condition of the tyres frequently, as abnormal wear may be due to a problem with the geometry of the front axle.

The use of the anti-puncture spray is only intended for temporary and short term use.

Do not exceed 35 km/h, do not accelerate or brake sharply, and do not take corners at high speed.

After using the anti-puncture spray, have the condition of the tyre carcass checked.

## 

Incorrect tyre pressure causes premature tyre wear and makes the vehicle unstable and dangerous to drive.

The rubber surface depth must not be lower than the wear indicator. If you have to get out of the vehicle outside a parking space, it is compulsory to wear a fluorescent waistcoat and to place the safety triangle before the vehicle.

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## Tyre pressure:

It is recommended to check the cold tyre pressure once a month.

Abnormal pressure levels cause abnormal wear, affect the vehicle behaviour and driving safety and increases fuel consumption. Overloading the vehicle accelerates tyre wear.

LIST OF TYRES				
Dimensions	145 / 80 R13	155 / 65 R14	155 / 65 R15	165 / 50 R16
Pressure unladen * Pressure laden *	1.50 bars 1.80 bars	1.50 bars 1.80 bars	1.50 bars 1.80 bars	1.50 bars 1.80 bars
Minimum speed category	В	В	В	В
Minimum load index	60	60	60	60
Category of use of the vehicle	Normal Snow	Normal Snow	Normal Snow	Normal Snow



## Tyre wear:

Regularly check the tyre wear using the tread wear indicators.

If the maximum tread depth is reached (1), it is mandatory to replace the tyres.

Ligier Group recommends using tyres of the same brand and quality as those mounted on the original vehicle.

## **Recycling:**

A tyre contains environmentally hazardous substances.

Contact your nearest dealership equipped for recycling of used tyres in compliance with the applicable and environmental standards.

## 3.3 - LIGHTING

## Front light unit



Full LED light, no bulb replacement possible.

# 6

Full LED light, no bulb replacement possible.

## License plate light

BULB 12V 5W

- 1. Using a flat screwdriver, remove the transparent cap by placing the tip of the screwdriver in one of the two notches on either side of the cap and lifting slightly.
- 2. Replace the bulb and fit the cap.

## Rear light unit



## 3.4 - FUSES

The fuse boxes are located in the glove box on the passenger side and under the bonnet on the driver's side. In the event of an electrical fault or when the fuse indicator is lit on the dashboard display, check the fuses.



#### DO NOT CHANGE THE AMPERAGE OF THE FUSES AS THIS MAY CAUSE SERIOUS DAMAGE.

## Passenger compartment side



# F3 F4 F5

5		F11 10	15 🖅		<b>1</b> 5 F15
15		F12 <b>3</b>	<b>15</b> F8		3 🕫
10		F13 <b>5</b>	7.59	F18 20	3 🕅
5	<b>15</b> F2	F14 5	20 🗊	F19 20	

F2	15A	APC radio+roof light
F3	2A	OBD connector
F4	15A	Front windscreen wiper
F5	10A	Centralised locking + horn
F6	5A	Meter + emergency lights
F7	15A	APC control panel
F8	15A	APC front + rear windscreen wiper
F9	7.5A	APC OBD meter
F10	20A	Rear demister
F11	10A	Front demister
F12	3A	High beam lights
F13	5A	Low beam lights
F14	5A	Sidelights + fog lights
F15	15A	ACC radio
F16	3A	ACC general
F17	3A	Heated seat
F18	20A	Left side window lift mechanism
F19	20A	Right side window lift mechanism



- F22 70A DC-DC
- F23 5A ECU battery
- F24 30A Power steering battery
- F25 7.5A APC DNR + Brake
- F26 7.5A APC power steering
- F27 3A APC motor
- F28 3A ACC motor


# 3.5 - FLUID LEVEL IN THE BRAKING CIRCUIT



#### Brake fluid reservoir

The level in the sight glass must not be below the **MIN** marker of the reservoir. Top up if necessary with the appropriate brake fluid for the vehicle.

## Replace the brake fluid every 50,000 km or every 3 years with a DOT4 type product.

## 3.6 - WINDSCREEN WASHER



### Windscreen washer reservoir

(photo 1)

The windscreen washer reservoir is located under the bonnet on the driver's side in the wing inner panel.

IMPORTANT: the ready-to-use liquid must be diluted with water: 1 dose of windscreen washer for 10 doses of water.

## 3.7 - BATTERY



#### Battery

(photo 2)

Located in the motor compartment, under the carpet.

It is accessible through a hatch under the dashboard on the passenger side.

## 

Disconnect the cable from the negative battery terminal before working on the electrical circuits.

Be careful not to short-circuit the terminals with a tool or other metal object, as this may damage the battery or the vehicle's harness.



# 4. TECHNICAL SPECIFICATIONS

## **4.1 - GENERAL SPECIFICATIONS**





Α	Unladen height	1533 mm
В	Width without mirror	1500 mm
с	Wheelbase	1830 mm
D	Length	2958 mm

## 5.1 - CARACTÉRISTIQUES TECHNIQUES

	STANDARD Battery	Extended BATTERY	High-Performance BATTERY	
Batteries	4.14 kWh	8.28 kWh	12.42 kWh	
Max. speed unloaded	45 km/h	45 km/h	45 km/h	
Range in cycle	63 km (WMTC cycle)	123 km (WMTC cycle)	192 km (WMTC cycle)	
Number of seats	2	2	2	
Type of motor	Synchronous motor	Synchronous motor	Synchronous motor	
Rated power* of the motor	5.6 kW	5.6 kW	5.6 kW	
Transmission	Automatic	Automatic	Automatic	
Type of battery	Lithium	Lithium	Lithium	
Battery maintenance	No maintenance	No maintenance	No maintenance	
Number of batteries	1	2	3	
Voltage in volt	51	51	51	
Built-in charger	Yes	Yes	Yes	
Battery monitoring	Yes	Yes	Yes	
Power supply	Home power supply (230 V - 16 A)	Home power supply (230 V - 16 A)	Home power supply (230 V - 16 A)	
Charging power	2000 W	2000 W	2000 W	
Charging time	~2:30 hours	~4:15 hours	~6:15 hours	

\* According to R85 or 30mn-1 / \*\* Estimated value

#### LIGHT QUADRICYCLE TYPE

Seats: 2 (including driver) Front wheel drive and steering Maximum permitted speed: 45 Km/h Automatic speed change by inverter Forward and reverse switch button

#### MASS IN RUNNING ORDER

Front	
Rear	150 Kg
MTPLM	848 Kg
Payload	246 Kg

#### BATTERY

Maintenance-free lead 12V-50 Ah-402 A

#### TRANSMISSION

Automatic

Direction change by reversing the polarity of the electric motor 2-wheel front drive

#### **SUSPENSIONS**

Front: independent wheels with Mc Pherson type suspension Rear: independent wheels with separate hydraulics

#### **BRAKING SYSTEM**

Independent front / rear hydraulic system DOT 4 type fluid Front and rear: discs Parking brake: mechanical

## 4.2 - BODY AND VEHICLE MAINTENANCE

#### SERVICING INSTRUCTIONS

Wash the vehicle body with soapy water.

- Use a natural sponge for washing.
- Rinse the body with clean water.
- Dry the body with a chamois to prevent ring marks.
- Do not wash the motor with large amounts of water or water jets.
- Use a specific alcohol-free product to clean the inside plastic surfaces.



To prevent premature damage to the body of your vehicle:

- Do not use a high-pressure automatic roller cleaner.
- Do not use water with a temperature higher than 50°C.
- Do not use detergents or thinners.
- Do not polish with an abrasive paste.
- · Do not wash the vehicle in the sunlight or in freezing weather.



Failure to comply with these maintenance recommendations may cause damage (scratches, deformation, discolouration, cracks) to the body ABS material.



#### 5. ROAD SIGNS

## **SIGN CATEGORIES**





## **PRIORITY SIGNS**



## LIGHTS



## LANES PROHIBITED FOR LIGHT QUADRICYCLES AND MOPEDS



## Warranty registration card

Copy A to be returned to LIGIER Group within 7 days, 105, route d'Hauterive / 03200 ABREST / France

Contractual warranty with a duration of two years from the date of first delivery.

The warranty is only valid if the registration card has been completed by the purchaser and by the authorised dealer and sent to LIGIER Group within 8 days of delivery.			
Vehicle	details		
Туре:			
Model:			
Serial N°:			
Engine N°:			
Date of first use:			
Custome	er details		
Mr.  Mrs.  Miss  Surname:			
Warranty start date (Delivery)	Warranty end date		
Authorised dealer stamp Date and signature	I wish to be covered by the warranty in accordance with the terms and conditions contained in the accompanying booklet and I acknowledge receipt of the warranty registration card.		
	Location Date		
Customer signature			

## Warranty registration card

Copy B to be retained by Dealer/Distributor

Contractual warranty with a duration of two years from the date of first delivery.

The warranty is only valid if the registration card has been completed by the purchaser and by the authorised dealer and sent to LIGIER Group within 8 days of delivery.			
Vehicle	details		
Type:			
Serial N°:			
Engine N°:			
Date of first use:			
Custome	er details		
Mr.  Mrs.  Miss  Surname:			
Warranty start date (Delivery)	Warranty end date		
Authorised dealer stamp Date and signature	I wish to be covered by the warranty in accordance with the terms and conditions contained in the accompanying booklet and I acknowledge receipt of the warranty registration card.		
	Location Date		
Customer signature			

## Warranty registration card

Copy to be kept in the warranty booklet.

Contractual warranty with a duration of two years from the date of first delivery.

The warranty is only valid if the registration card has been completed by the purchaser and by the authorised dealer and sent to LIGIER Group within 8 days of delivery.			
Vehicle	details		
Туре:			
Model:			
Serial N°:			
Engine N°:			
Colour:			
Date of first use:			
Custome	er details		
Mr.  Mrs.  Miss  Surname:			
Warranty start date (Delivery)	Warranty end date		
Authorised dealer stamp Date and signature	I wish to be covered by the warranty in accordance with the terms and conditions contained in the accompanying booklet and I acknowledge receipt of the warranty registration card.		
	Date		

## Commercial warranty contract

#### **DEFINITION OF THE CUSTOMER WARRANTY**

#### New LIGIER or MICROCAR quadricycles:

Are covered by the legal guarantee relative to latent defects on the sold goods set out in the following Articles **1641 to 1649** of the Civil Code and the guarantee of conformity set out in Articles L. **217-3** and following of the Consumer Code owed by the seller, regardless of the commercial warranty granted.

The consumer has a period of two years from the delivery of the goods to obtain the application of the legal guarantee of conformity in the event of a defect in conformity. During this period, the consumer is only required to establish the existence of the lack of conformity and not the date of appearance thereof.

Where the contract of sale of the goods provides for the supply of digital content or a digital service on a continuous basis for a period of more than two years, the legal guarantee shall apply to that digital content or digital service throughout the period of supply provided. During this period, the consumer is only required to establish the existence of the lack of conformity of the digital content or service and not the date of appearance thereof.

The legal guarantee of conformity entails an obligation on the professional, where applicable, to provide any updates necessary to maintain the conformity of the goods.

The legal guarantee of conformity gives the consumer the right to repair or replace the goods within thirty days of the request, free of charge and without major inconvenience.

If the goods are repaired under the legal guarantee of conformity, the consumer benefits from a six-month extension of the initial warranty. 2

If the consumer asks for the goods to be repaired, but the seller imposes a replacement, the legal guarantee of conformity is renewed for a period of two years from the date of the replacement of the goods.

The consumer may obtain a reduction in the purchase price by keeping the goods or terminate the contract by obtaining a full refund against the return of the goods, if:

1. The professional refuses to repair or replace the goods;

2• The repair or replacement of the good takes place after a period of thirty days;

3. The repair or replacement of the good causes major inconvenience to the consumer, in particular where the consumer definitively bears the cost of trade-in or removing of the non-conforming good, or if the consumer bears the cost of installing the repaired or replaced good;

4• The nonconformity of the good persists despite the seller's unsuccessful attempt to bring it into conformity.

The consumer is also entitled to a reduction in the price of the goods or to rescission of the contract where the lack of conformity is so serious as to justify immediate reduction in price or rescission of the contract. The consumer is then not obliged to ask for the repair or replacement of the goods beforehand.

The consumer is not entitled to rescind the sale if the lack of conformity is minor.

Any period of immobilisation of the goods for the purpose of repair or replacement shall suspend the warranty that was still running until the delivery of the repaired goods.

The rights mentioned above result from the application of Articles **L. 217-1 to L. 217-32** of the Consumer Code.

A seller obstructing the application of the legal guarantee of conformity in bad faith is liable to a civil fine of up to EUR 300,000, which may be increased to 10 % of the average annual turnover (Article **L. 241-5** of the Consumer Code).

The consumer also benefits from the legal guarantee for latent defects in application of articles **1641 to 1649** of the Civil Code, for a period of two years from the discovery of the defect. This guarantee gives the right to a price reduction if the goods are kept or to a full refund in return for the trade-in of the goods. Is covered by a 2-year commercial warranty excluding promotional or commercial operations initiated by the Manufacturer which begins on the date first registration of the vehicle, provided by Ligier Group.

Ligier GROUP SASU 105 route d'Hauterive 03200 ABREST (France) Phone (+33)9 69 32 18 10 - press 2 sav-clients@Ligiergroup.com

Is covered by a commercial warranty provided by Ligier Group for the traction batteries of electric vehicles, the duration and conditions of which are specified below.

Benefits from Ligier Assistance according to the conditions defined in the commercial warranty conditions and in the user-maintenance manual.

The commercial warranty is valid with the network of Distributors / Repairers duly authorised by Ligier Group within the European Economic Area.

The service manual includes the Warranty Registration Card which must be fully completed, stamped and returned to the Ligier Group After-Sales Service by the SellerDistributor immediately upon entry into service. The owner's signature certifies that the owner acknowledges and accepts the clauses of this contract.

In the event that this warranty registration card is not returned to Ligier Group by the Seller-Distributor, the commercial warranty will apply upon presentation by the Customer of the Warranty registration card to the Distributor / Repairer.

The service manual must be presented to any Distributor / Repairer authorised by Ligier Group for any maintenance operation or request for the application of the commercial warranty.

Maintenance operations and oil changes are transferred to the user, excluding specific contracts with the seller, and are required to maintain your commercial warranty. They must be certified by a qualified professional for light quadricycles.

# Conditions of application of the commercial warranty

(Event of a loss of capacity)

The commercial warranty for the Ligier & Microcar brands applies to the vehicle. Consequently, the transfer of its ownership does not modify the conditions of application of this commercial warranty.

To be covered by the commercial warranty, the user must present the duly completed maintenance record which justifies that the maintenance operations recommended by the manufacturer were carried out (with a tolerance of plus or minus 500 km in relation to the initially planned mileage).

The commercial warranty for the Ligier & Microcarbrands applies to the removal, free of charge (parts and labour) of any material or construction defect observed, under the following conditions:

Requests under the commercial warranty must be submitted under the responsibility of the authorised Repairer and in the workshops of a Repairer authorised by Ligier Group or their approved point of sale. The Repairer is committed to ensuring that the operations carried out in the workshops of its authorisedoutlets or agents comply with all of the present general conditions. Refund requests shall be processed exclusively with the Repairer, even if the work is carried out by a subcontractor for services that cannot be performed by the Repairer, namely bodywork, painting, glazing.

Exchange or repair of any part recognised as being defective is left to the discretion of Ligier Group.

The commercial warranty covers original vehicles in normal condition, disassembly of non-OEM accessories or washing if necessary for operations under the commercial warranty shall not be covered by Ligier Group.

The commercial warranty for the Ligier & Microcar brands does not apply if it is proven that the observed defect is due to the fact that:

Proper vehicle maintenance has not been completed and that in particular the instructions concerning the treatment, use, maintenance or care, which are set out in the service manual, have not been followed.

Parts have been fitted, modifications or adaptations have been made to the vehicle which are not authorised or provided for by the manufacturer or by applicable law.

Vehicle maintenance has not been carried out by a qualified professional for light quadricycles.

The vehicle has been used in abnormal conditions (for example: taking part in sports competitions, overloads even temporary), the vehicle has not been used for an extended period of time, off-road use or improper use of a passenger vehicle.

(Refer to the user manual for further information).

When the damage is the result of normal wear and tear of equipment or a traffic accident.

Normal wear parts such as remote control batteries, tyres, suspension shock absorbers, cables, bulbs, fuses, filters, belts (transmission, distribution, variable speed and alternator), brake pads, windscreen wiper blades, linings and fabric, brake discs (wear, appearance, deformation), exhaust pipes by external or internal corrosion, transmission or steering boots, spark plugs or glow plugs, are not covered by the commercial warranty.

If the vehicle is not used for an extended period of time, if the 12V battery power is used with the engine switched off (roof light on, door not properly closed, use of the cigarette lighter to recharge or supply an electrical appliance. etc.) or in the event of additional electricity consumption (amplifier, long-range lights, alarm, etc.) not provided for by the manufacturer. the battery may quickly and deeply discharge, and the charging capacity will not be restored. The 12V battery is covered by the commercial warranty only if an original internal fault in the components (occurring during the first 6 months of operation), a malfunction of the charging system or an electrical component malfunction is detected causing unusual power consumption.

The windows of the doors, the quarter windows, the tailgate and the windscreen are only covered by

the commercial warranty against manufacturing defects.

The risk of fire, damage resulting from normal ageing, a change in colour of the bodywork surfaces, damage to the paintwork or to the interior or exterior bodywork (impact of gravel, atmospheric fallout, cleaning of the components with: thinner, corrosive fluids or products not suitable for ABS plastic, a high-pressure cleaner, excessive heat), cosmetic issues that do not affect the performance of the vehicle, damage resulting from storage or poor transport conditions, failure due to natural phenomena (hail, flooding, etc.). The use of the wrong washer fluid may cause serious damage to the body.

The commercial warranty does not cover aggravation of damage resulting from the use of the vehicle when a red light has lit on the meter during operation. Refer to the user manual of the vehicle concerned for the definition of the indicators and warning lights.

The commercial warranty does not apply in case of the use of poor quality fuel, or any type of fuel other than the type that is recommended for use with the vehicle engine. Front axle and steering geometry adjustments, front light adjustments, hand brake cable adjustments, brake pad clearance adjustments are not covered by the commercial warranty.

Beyond 30,000 km, some parts subject to wear and tear are not covered by the commercial warranty:

- injector nozzle or injection system for any type of engine (combustion vehicles)
- exhaust hose (combustion vehicles)
- driving pulley and driven pulley (combustion vehicles)
- rubber mountings for motor unit suspension (combustion and electric vehicles)
- rubber mountings for the suspension arm or pendulum system (combustion and electric vehicles)

In no case shall this commercial warranty cover the ingredients (oil, grease, brake fluid, coolant, fuel), fungible instruments, the cost of tools (mechanical, electronic and IT), battery recharging costs, maintenance costs, as well as those relating to repair and towing services (except for vehicles be covered by a Ligier Assistance warranty), immobilisation of the vehicle and travel costs, if the

vehicle runs out of fuel, puncture, damage related to projections, damage to the goods or goods transported, damage declared after the commercial warranty has expired.

The loan of a courtesy vehicle is at the discretion of the repairer as well as the costs of providing this service.

Parts replaced under the contractual warranty are covered by the commercial warranty until the vehicle commercial warranty expires.

IMPORTANT: the use of any filtration system which is not certified by Ligier Group, of parts of another type or parts modified to increase performance, shall automatically eliminate any warranty claims.

Moreover, these modifications made to increase the power and the performance involve the legal responsibility of the owner. (Refer to framework directive 2002/24 / EC and law No. 2006-10 of January 5, 2006 relating to the safety and development of transport). IGIER

## General conditions of the commercial warranty for traction batteries

The commercial warranty is valid with the network of Distributors / Repairers duly authorised by Ligier Group within the European Economic Area as long as the beneficiary of the present vehicle:

• Will have used the vehicle in accordance with the requirements described in the user manual,

• Will have regularly serviced and charged the battery pack according to the instructions in the user manual.

#### CONDITIONS OF THE COMMERCIAL WARRANTY ON TRACTION BATTERIES

#### 1. FULL WARRANTY COVERAGE FOR 5 YEARS OR 1500 CYCLES

The full commercial warranty coverage for 5 years or 1500 cycles, whichever occurs first, covers any malfunction of mechanical, electrical or electronic components of the battery according to the conditions of use and/or storage specified in the user manual. Any battery that is inoperative as a result of a failure within the terms of this warranty will be repaired or, failing that, replaced. Transport costs are included in the warranty. The repaired or replaced battery will retain the same technical characteristics of capacity and warranty as the original battery at the time of the application.

Example: For a malfunction occurring after 3 years of use, the repaired or replaced battery will benefit from a 2-year warranty.

In order to benefit from the commercial warranty, the Customer (user) must present the vehicle with its battery(ies) to an authorised distributor once a year.

# The annual service validates the warranty on the vehicle's traction battery(ies).

The authorised distributor will carry out the servicing operations defined by the manufacturer.

Once these operations have

been carried out, the authorised distributor will stamp the maintenance manual in the appropriate box, indicating the exact date and mileage.

#### 2. DEGRESSIVE WARRANTY FOR ELECTROCHEMISTRY IN THE EVENT OF A LOSS OF CAPACITY

It will apply in the case of a demonstration of normal use, and full coverage will apply during the first 12 months of use of the battery or 21.870 Ah guaranteed for the 4.14 kWh battery and in the case of a loss of battery capacity of more than 20 % (SOH < 80 %).

The degressive warranty takes effect from the first day of the 13th month of battery use or more than 21.870 Ah guaranteed for the 4.14 kWh battery and 80 % SOH

The manufacturer will accept a partial charge on a pro-rata basis if a request is made to replace a battery with a capacity of less than 80 %.

The manufacturer reserves the right to supply a battery with a capacity greater than 80 % and to ensure the remaining warranty period.

#### 3. CONDITIONS OF APPLICATION OF THE COMMERCIAL WARRANTY

When a battery usage problem is detected, an analysis of the battery BMS should be performed using the dedicated diagnostic tool.

## 4. IMPORTANT CHARGING AND STORAGE SPECIFICATIONS

#### Electrical charging of the battery:

It is advisable to fully charge the battery every month to rebalance its cells.

It is recommended that a full charge be carried out three times a month for regular use.

A monthly full charge optimises the vehicle's life (directly linked to the state of ageing of the battery). Partial (incomplete) charging is allowed between 2 full (100%) charges with a maximum of 3 months between them.

## Vehicle immobilised for an extended period of time:

If the vehicle is not used for an extended period of time, it is recommended to carry out a full charge every 3 months and a mandatory full charge every 6 months.

Park the vehicle under shelter from adverse weather conditions with temperatures ideally between 0°C and +40°C (parking in extreme temperatures can damage the traction battery).

- Fully charge the traction battery
- Unplug the charging cord

• Disconnect the 12 V battery <u>Please note that the following</u> <u>cases of immobilisation or non-</u> <u>use may result in the total loss</u> <u>of the vehicle's battery warranty</u> <u>coverage:</u>

180 consecutive days with a SOC < 30 % => Loss of coverage

5 consecutive days with a SOC < 5 % => Loss of coverage

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## Periodical maintenance

#### CONDITIONS OF THE WARRANTY \_\_\_\_\_

Inverter unit oil	
Brake fluid	DOT 4 Ruban bleu
Windscreen washer fluid	Igol

## FREQUENCY (kms) - Myli electric



OPERATIONS	COMMENTS	1,000 km OR 1 year	Every year	At 10,000 km AND every 10,000 km or 2 years
Fluid level check	Check brake fluid level (top up if necessary)	x		x
	Check that there are no leaks on the braking circuit fluid	x		x
	Check the operation of the brakes including the hand brake	x		x
Checks of ground	Cleaning and dusting of brakes, replacement of linings if necessary			x
connections, transmission, shock absorbers, engine	Check the condition of the rubber mountings (motor and reducer)			x
periphery	Check that there are no leaks on the shock absorbers			x
	Check the condition of the boots and clearances (ball joints and steering rack)			x
	Check tyre pressure (inflate if necessary)	×		x
	Tightening check on the power circuit			X
	Full charge of the traction battery	x		x
	Check the DC/DC converter and the voltage of the accessory battery (recharge if necessary)			x
Electrical checks	Check the condition of the charging cable and the vehicle's charging socket	x		x
	Discharge test of the accessory battery and replacement if necessary			x
	Performance check of lights and electrical instrumentation	x		x
	Check of the traction battery (read information with diagnostic tool)	х	х	x
	Reprogramme the maintenance indicator	x		x
Additional checks	Tightening check of the fasteners (wheel, motor)	x		x
	Check the condition of light units, mirrors, windscreen, plates and wiper blades	x		x
	Test drive of the vehicle	x		X
	Replacement of passenger compartment filter			x

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# Service coupons



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