

m-cro



MICROLINO

INSTRUCTION MANUAL

INTRODUCTION

CONGRATULATIONS ON YOUR MICROLINO!

In 2015, we launched the project with one goal: to bring a new product category on the market that could be an alternative to the car, without much loss of comfort.

We are a family business founded in 1999, which invented the first kick-boardscooter as the ideal vehicle for the last mile.

Often copied, we have always focused on our three values: quality, sustainability and innovation. The result is over 50 innovations in the mobility sector, from the most compact stroller to the Microlino.

We hope you enjoy your Microlino.

Wim, Merlin und Oliver Ouboter



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SAFETY

Safety instructions

In order to draw your attention to situations in which you could endanger yourself and others, safety instructions are included in this manual as well as other safety instructions are attached to the vehicle.

The severity of the danger is shown as follows:

DANGER

Indicates a dangerous situation in which death or serious injury may occur if not avoided.

WARNING

Indicates a dangerous situation that can lead to minor to moderate bodily injury if not avoided.

IMPORTANT

Indicates a situation in which the product or the environment may be damaged.

Special features of the electric vehicle

Compared to vehicles with a combustion engine, the Microlino with electric drive has some noticeable differences.

Electric motor

The electric motor already has its maximum torque from the beginning. This gives the microlino a faster acceleration than vehicles with combustion engines of the same power class. Adjust your driving behaviour accordingly.

Gearbox

The Microlino requires neither a conventional gearbox nor a conventional clutch for its electric motor. The drive has gears similar to those of a conventional automatic transmission.

Driving noise

An electric motor has a very low noise level. Noise that would be generated by an engine due to the exhaust system, etc., are perceptible when driving. The Microlino is also barely audible from the outside, especially when driving slowly. Bear in mind that other road users will hardly notice your vehicle acoustically or only at a late stage. Expect unexpected reactions from pedestrians. Adjust your driving behaviour accordingly.

Range

The range can vary greatly depending on:

- The driving behaviour
- Charging status
- Number of electrical equipment used (heating, windscreen wipers, etc.)
- Traffic conditions
- Road conditions
- Tyre pressure
- Use of sport mode
- Weather conditions

Always observe the relevant instrument readings and adjust your driving accordingly. When selecting destinations, plan for local charging possibilities and charging times.

Secure the vehicle against rolling

WARNING

If the parking brake is not properly applied when the vehicle is parked, the vehicle may roll away. This can lead to property damage, traffic accidents and personal injury. Make sure that the handbrake is always fully applied when you leave the vehicle. Even on a downhill slope, the vehicle must be held securely by the handbrake. Before leaving the vehicle make sure that the handbrake is strong enough to hold the vehicle in position. If necessary, underlay the wheels with a suitable wedge to prevent the vehicle from rolling away.

IMPORTANT

When the handbrake is applied, this is indicated visually in the dashboard.

Emergency card

A digital copy of the rescue card is available on the corresponding online platforms.

Passenger safety

The Microlino has bench seat belts for all passengers with a seat belt warning system for the driver. Please note that the Microlino does not have safety systems such as airbags, ABS and ESP and other passive safety features.

DANGER

Damaged bench seat belts do not provide adequate protection. Bench belts that are damaged, worn out or subjected to severe wear and tear increase the risk of serious or fatal injuries in the event of an accident.

- Regularly check the bench seat belts in the vehicle for damage to the fabric (e.g. cuts, etc.) and for dirt or rust.
- Regularly check the fastening points and the seat belt buckles for their proper functioning.
- Make sure that the bench seat belts are completely rolled up after use this prevents soiling and damage.
- Make sure that damaged seat belts or seat belts that have been subjected to a heavy load in an accident and their anchorage points by a qualified specialist workshop and replace them if necessary.
- If the seat belt tensioners have been triggered, have the bench seat belts and the anchorage points checked by a qualified specialist workshop.

Unfastened and incorrectly fastened seat belts increase the risk of serious or fatal injuries in the event of an accident.

- Wear your bench seat belt correctly every time you drive and make sure, that all other occupants are wearing their seat belts correctly.
- Never wear a bench seat belt for more than one person at a time.
- Never wear a seat belt around a child sitting on the lap of a passenger.
- Make sure that the seat belts are correctly positioned and that the buckle tongue is in the correct buckle. Make sure that the seat belt is as tight as possible.
- Remove loose, bulky clothing (e.g. jacket). Do not run the seat belt over objects on your body (e.g. pens, mobile phones, glasses, etc.).
- Make sure that the seat belt is not twisted or loose.
- Do not make any changes to the bench seat belts and their components.

Observe the following points even if the seat belts are not fastened:

- The bench seat belts must be fully rolled up and not twisted.
- Make sure that the belts, belt guides, belt buckles and other components are not damaged when getting in and out, loading and unloading.

Putting on the bench seat belts Child restraint systems

Note that the bench seat belts are for adult vehicle occupants only.

If the bench seat belt locks, this may be due to the following:

- The bench seat belt was pulled out with a jerk.
 - The vehicle is on an incline.
 - The vehicle is in motion and accelerating or slowing down, going through a curve or on an incline.
1. Grasp the seat belt by the buckle tongue and guide it slowly and evenly across the chest and hips.
 2. Insert the buckle tongue into the corresponding buckle on the inside of your seat until you hear it click into place.
 3. Make sure that the seat belt is not pinched or twisted and that it does not run over sharp edges.
 4. Make sure that the shoulder belt fits snugly against the upper body and runs across the middle of the shoulder. Adjust your sitting position if necessary.
 5. Pull the shoulder belt upwards so that the pelvic belt is tight against your pelvis. During pregnancy, guide the pelvic belt so that it is as low on the pelvis as possible and does not press on the abdomen.
 6. Make sure that the lap belt remains tightly fastened by repeatedly pulling on the shoulder belt while driving.

Unbuckling the seat belt

1. Hold the tongue of the seat belt buckle and press the red button on the seat belt buckle to release the seat belt.
2. Guide the belt by the buckle tongue in the direction of the belt outlet until the belt is retracted.

Make sure that the belt does not get caught or twisted anywhere.

Child restraint system

DANGER

Risk of serious or fatal injuries due to improper use of child restraint systems.

Child restraint systems that are not suitable for the vehicle type or are not properly installed in the vehicle do not provide adequate protection in the event of an accident and increase the risk of serious or fatal injuries.

Child restraint systems / ISOFIX

The bench seat in your Microlino is not designed for child restraint systems because it does not provide sufficient lateral support.

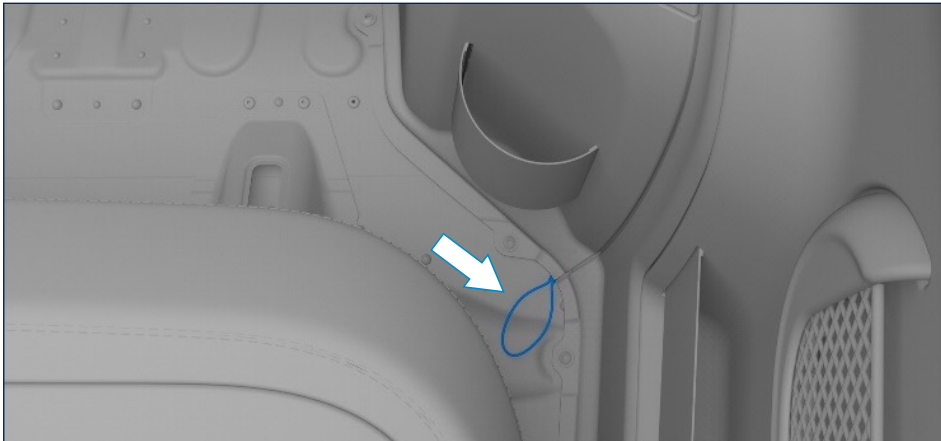
The bench seats in your Microlino are **NOT** equipped with ISOFIX child restraint systems.

Safety of the parked vehicle

Your Microlino is equipped, among other things, with the following devices for the safety of the parked vehicle:

Radio remote locking

Your Microlino is equipped with a radio remote locking system. This allows you to, lock the door and open the tailgate from the outside.



Emergency release Fig. 1

Emergency release

Should the electronic door opening no longer function, an emergency release is fitted. Pull the loop and the door will unlock mechanically.

Weight and accessories

This vehicle is designed to carry up to two people and luggage.
Observe the permissible total weight of the vehicle and the permissible axle loads.
The Microlino is not intended for use with a trailer.
The Microlino is not intended for operation with a roof rack.
The Microlino is not designed for towing other vehicles.

OPERATION

Locking

Your Microlino is locked via the central locking system. To lock the vehicle completely the door and the tailgate must be closed.

Vehicle key

Press the button on the remote control to unlock the key bit. The key bit is spring-loaded into the use position and locks when you release the button.

Press and hold the button on the remote control and fold the key manually back to its original position.

Remote control door

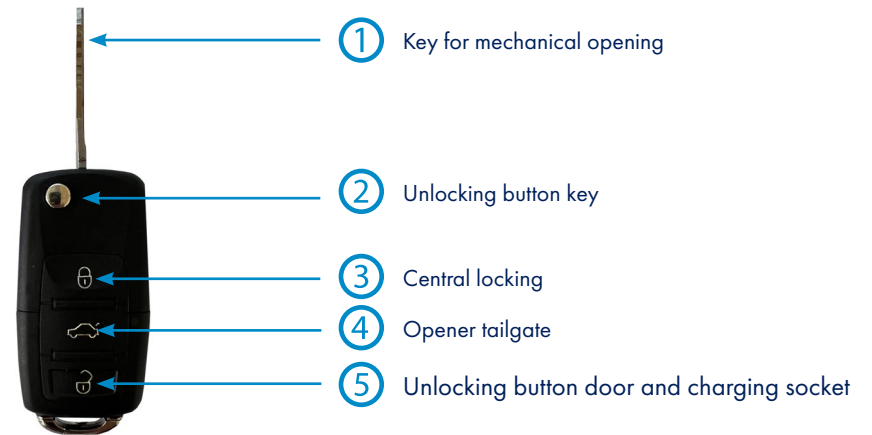


Fig.2 Vehicle key

From the outside with the radio remote control unlocking

To unlock the doors, press the unlock button on the remote control (button 5). The locking mechanism audibly disengages. The indicator lights flash twice briefly to confirm unlocking.

Locking

Press the locking button on the remote control to lock the doors (button 3). The locking mechanism audibly engages. The indicator lights flash once to confirm that the doors are locked.

Mechanically locking and unlocking the door (Only if the remote control fails)

From the outside with the key If necessary, press the button on the remote control to open the key bit (button 2). The lock cylinder is located on the A-pillar at the front right.

Mechanical unlocking

Insert the key into the lock cylinder of the driver's door. Press the door lightly against the against the vehicle during unlocking. Turn the key clockwise at the same time.



Fig.3 Door outside

! IMPORTANT

Press the front door lightly against the vehicle to ensure that there is not too much tension on the lock cylinder. Turn the key in the locking cylinder approx. 90° clockwise. The locking mechanism audibly unlocks. Fig.3 Door outside

Opening the door from the outside

Press the square button under the headlights on the passenger side of the car. This opens the door by means of the gas strut until it is fully open.

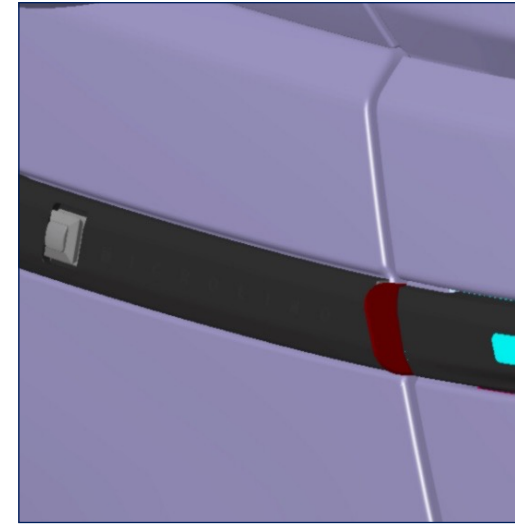


Fig.4 Metal handle

! WARNING

Due to slopes, cold temperatures or other circumstances the door may open less than a hand. In this case, do not reach into the gap, as the door's soft-close mechanism close mechanism of the door can close the door again. In such circumstances, use the protruding metal handle so that you do not have to reach into the gap to open the door fully by hand.

Opening the door from the inside

Press the switch behind the centre strip of the dashboard. This activates the pop-up spring, and the door should open a crack so that it opens fully with light pressure.

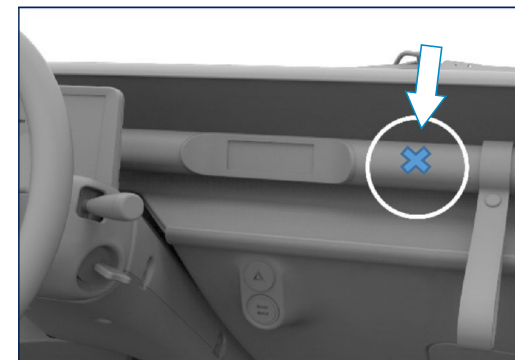


Fig.5 Door inside

! IMPORTANT

It is not possible to drive off with the door open. The message „Please close door“ and a red symbol with an open bonnet is displayed.

Closing the door from the inside

Pull the front door slowly towards you by the handle strap against the resistance of the spring up to the seal. As soon as the closing pin has reached the lock, the door will automatically close in its final position by means of the soft close mechanism.

WARNING

Be careful not to trap your fingers or objects in the closing door.

WARNING

Do not pull the door closed at the edge but only by the handle strap. There is a danger of pinching your fingers.

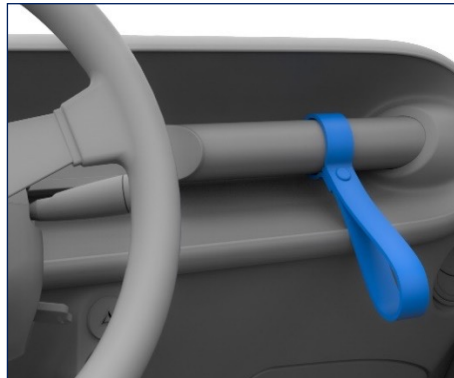


Fig.6 Door handle inside

IMPORTANT

No swing or great effort is required. The door closes easily and automatically.


Tailgate

Unlocking and opening the tailgate

The tailgate can be opened from the inside via the central control panel and from the outside via the remote control.

From a vehicle speed of 3 km/h the unlocking of the tailgate is disabled. The tailgate cannot be opened again until the vehicle has come to a standstill.

Unlocking from the inside

Swipe to the right and press the button with the symbol  displayed. Within seconds, the tailgate opens.

Unlocking from the outside

Press the tailgate button on the radio remote control for approx. 3 seconds. The tailgate is released for opening.

Opening the tailgate

Grasp the lower edge of the tailgate in the centre and swing it upwards to open it fully.

Closing and locking the tailgate

Swing the tailgate down and press it into the latch in the centre of the lower section. The tailgate audibly engages and is locked.

Seat Bench

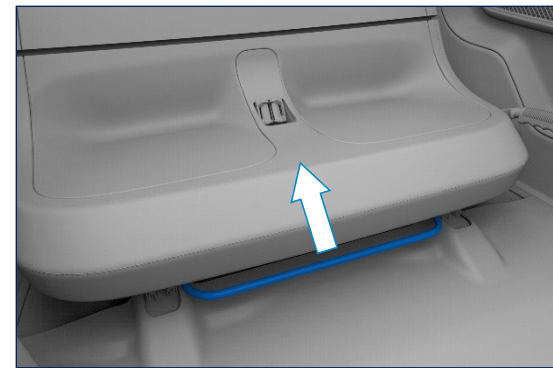


Fig.7 Seat Bench

Adjusting the seat

1. Pull the bracket in front of the seat upwards and hold it.
2. Move the seat to the desired position.
3. Release the bracket and make sure that the seat properly locks into place.

WARNING

While the seat is being adjusted, it may move unpredictably. This may cause you to lose control of the vehicle while driving and the risk of an accident causing serious or even fatal injuries to the occupants and other road users. Only adjust the seat when the vehicle is stationary.

Adjusting the exterior mirrors

WARNING

Adjustments to the mirrors can distract from the traffic scene. This may cause you to lose control of the vehicle while driving, creating the risk of accidents and serious or fatal injuries to passengers and other road users.

Adjust the mirrors only when the vehicle is stationary.

Adjust the mirrors by hand. Simply move the mirror to the desired position.

1. Open the window.
2. Adjust the mirror by pressing any side and tilting it in the desired direction.

Windows



Fig.8 Window

Open window

1. Press the sliding device on the window.
2. Push the window back into the desired position.

Closing the window

1. Press the sliding device on the window.
2. push the window forward to close it completely.

Sunroof



Fig.9 Sunroof

Open the sunroof

1. Grasp the handle of the sunroof and pull it down and back at the same time.
2. Push the sunroof all the way back.

Closing the sunroof

1. Grab the rear handle and push the roof first forwards and then downwards.
2. As soon as the sunroof is closed a loud click is noticeable.

Display of the dashboard



Fig.10 Dashboard

The dashboard displays all relevant information, such as:

- Speed
- Battery charge level
- Power required
- Recovered power
- Driving mode (D, N, R or Sport)
- All signals (indicators, warning signals, etc.)
- Time, date
- Total distance and Trip meter

The dashboard display has no touch function and no input function.

Central control element



Fig.11 Central control element

The functions of the central control element can be called up by swiping to the right or left.

WARNING

Operating the central touch screen while driving can lead to accidents and serious damage to the occupants, other persons outside the vehicle and objects. Do not operate the central control while driving.

The screen reacts to touches with the finger in the area of a button.

Tap the corresponding button briefly to trigger the desired function. Activated symbols change their size, deactivated functions are displayed in normal size.

The following functions are available in the central operating element:



Switch on fan level 1



Switch on fan level 2



Switch on fan level 3

The ventilation conveys fresh air from outside into the vehicle cabin. It is activated as follows:

Press the ventilation symbol. Press the ventilation symbol one or two more times to increase ventilation. To deactivate, press the ventilation symbol a fourth time.



Heat interior on / off

The heater enables the ventilation system not only to use outside air, but also to heat it and raise the temperature inside the vehicle. It is activated as follows:

Press the heater icon to start heating the interior, via the fan speeds to regulate the air flow. To switch off, press the the heating symbol a second time.



Switching the heated rear window on and off

Press the symbol to heat the rear window. The symbol enlarges when activated. The heating function switches off automatically after a while to avoid increased power consumption. The symbol returns to its normal size.

Press the symbol again. The heating function of the rear window is switched off. Then the symbol returns to its normal size.



Switching on the windscreen fan (defrosting)

Defrost activates the heating and sets the ventilation fan to the highest level. It is used to defrost/mist the windscreen. To activate press the defrost symbol.

To increase the airflow to the windscreen and speed up defrosting, close the two air vents in the car door. To deactivate, press the heating symbol a second time.



Open tailgate



Switching the interior lighting on and off, changing the brightness

The following functions are available for setting the driver display:



Open the submenu with Settings



Reset trip meter

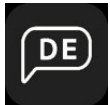


Modern digital display

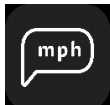
or /



Classic display round instruments



Setting language



Conversion mph / kmh



Date setting



Setting the name for the greeting

Adjusting the air vents

Open the air vents by pressing lightly on the recess in the slat. Turn the diffuser and the fins to the desired position.



Fig.12 Air vents passenger compartment

Close the air vents:

Press the air outlets closed. Ventilation of the head area is not possible when the air vents are closed.

Defrosting/misting the windows

For maximum effect of this function: Close all blower vents for the passenger compartment. Set the highest blower level by clicking the symbol several times. Switch on the heated rear window.

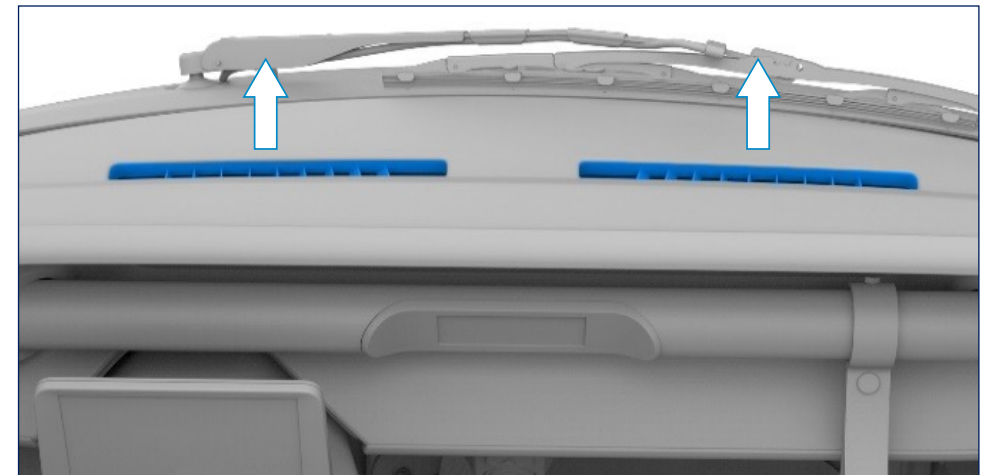


Fig.13 Air vents windshield

Lightning

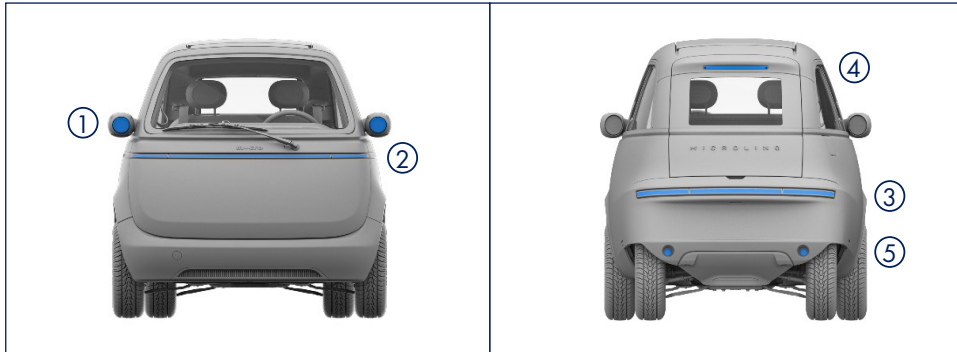


Fig.14 Frontlights of the microlino

Fig.14 Backlights of the microlino

1. Low beam, daytime running light
2. Indicator, parking light

3. Tail light, brake light, indicator
4. High-mounted brake light
5. Reflectors

Steering column controls

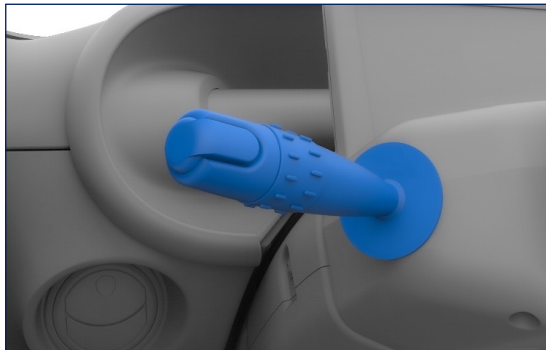


Fig.15

Switching on the left indicator

Push the indicator lever all the way down. The indicator lamp in the dashboard flashes.

Switching on the right indicator.

Press the indicator lever upwards. The indicator lamp in the dashboard flashes.

Switching off the indicator

Push the indicator lever back to the centre starting position. The corresponding indicator lamp in the dashboard turns off.

Fig.15 Bedienelement Blinker und Hupe

Automatic deactivation of the indicator. If the steering wheel is turned beyond a certain point when cornering and the corresponding indicator is on, the indicator is automatically switched off when the steering wheel is turned back straight ahead.

The corresponding indicator light in the dashboard goes out and the indicator lever returns to its original position.

If one of your Microlino's indicators has a defect, the flashing frequency of the other indicators on the affected vehicle will increase, the other indicators on the affected side of the vehicle.

Switching on daytime running lights

The daytime running lights are activated on the first position of the setting ring (0) when the ignition is switched on. The daytime running light is integrated into the headlights as a light ring. By the type of lighting or when the ignition is switched off, the daytime running lights are switched off again.

Switching on the parking lights

The parking light is activated by turning the adjusting ring to the middle position when the ignition is switched on. The indicator lamp in the dashboard lights up. The parking light is visible in the form of a continuous light strip at the front and rear of the vehicle. It also lights up when the low beam is switched on. By turning the adjusting ring to position 0 (daytime running light) or by switching off the ignition.

Switching on the low beam

Turn the adjusting ring on the indicator lever until the symbol is on the mark. The indicator lamp in the dashboard lights up. The front and rear parking lights also illuminate in the low beam position. The low beam goes out when the type of lighting is changed or the ignition is switched off.

Switching off the lights

The vehicle lights go out automatically as soon as the ignition is switched off.

Switching the high beam on/off

With the low beam switched on:

Pull the indicator lever towards you beyond the resistance and release it again. The low beam is switched to the main beam and the indicator lamp in the dashboard changes to blue. The indicator lever returns to its position.

Pull the indicator lever towards you until you feel resistance and release it. The main beam is switched back to low beam and the indicator lamp in the low beam dashboard changes to green. The indicator lever returns to its original position.

Using the flasher

Pull the indicator lever towards you briefly until you feel resistance and release it. The high beam is switched on as long as you hold the indicator lever and is switched off again when you release the lever. The indicator light in the dashboard lights up briefly accordingly.

Operating the horn

To operate the horn, press the button at the end of the indicator lever.

Windscreen wiper

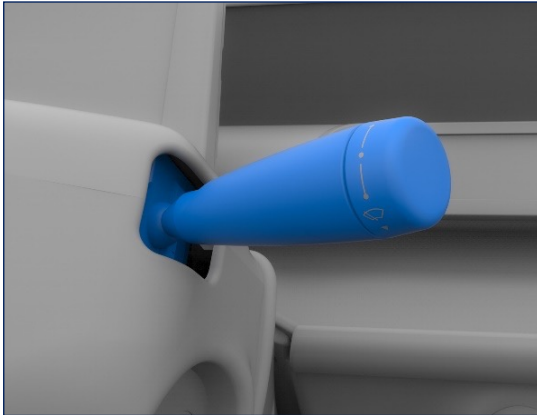


Fig.16 Windscreen wiper control element

The wiper lever can be moved from from the basic position 0 to three upwards: Intermittent, continuous operation 1 and 2.

When the wiper lever is moved downwards, the windscreen wiper is activated once. It then moves back to the home position after being released.

Switch on interval operation

Push the wiper lever up to the first detent position (Int). The windscreen wipers wipe and pause between each wipe.

Continuous operation 1

Press the wiper lever up to the second detent position. The windscreen wipers wipe at normal speed.

Continuous operation 2.

Press the wiper lever up to the third detent position. The windscreen wipers wipe at high speed. This position is suitable for strong This position is suitable for heavy downward wiping.

Switching off the windscreen wipers

Push the wiper lever back down to the starting position (0).

Washing the windscreen

Pull the wiper lever towards the steering wheel and hold it. The windscreen washer system sprays washer fluid over the wiper blade onto the windscreen. The windscreen washer system is in operation as long as you hold the wiper lever in position. Release the wiper lever to stop the windscreen washer system from operating.

Hazard warning lights



Fig.17 Switch for hazard warning lights

The hazard warning lights function regardless of whether the vehicle is switched on or off. Press the switch in the centre of the door. The flashing lights on both sides are switched on. Both indicator lights in the dashboard flash. Press the switch again to switch off the hazard warning light.

Interior lighting



Fig.18 Interior light

The interior lighting can be switched on and off via the central switch. Brightness can be adjusted in two stages.

USB-ports

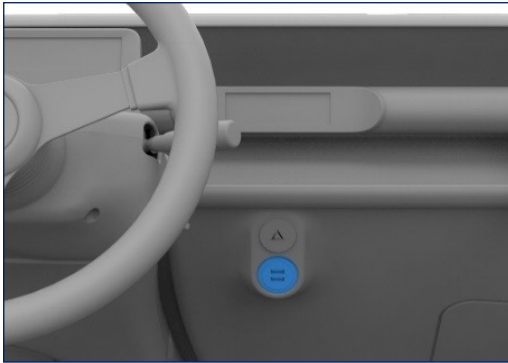


Fig.19 USB connection center

WARNING

Using the USB connection while driving distracts you from the traffic. This can lead to loss of control of the vehicle while driving and with serious or even fatal injuries of the occupants and other road users.



Fig.20 USB connector right

The first USB port is located in the in the driver's door below the control panel.

A second USB port is located in the in the door shelf at the front right.

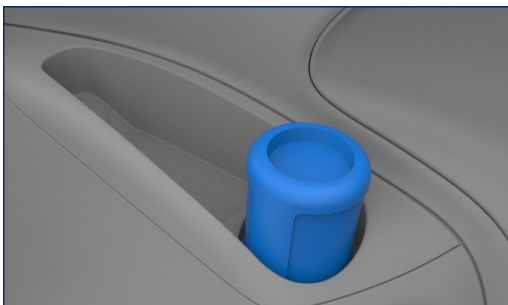


Fig.21 Speaker (accessories)

Bluetooth® connection to the Microlino Speaker (accessory)

To connect a new Bluetooth device, proceed as follows:

Press the power button for 2 seconds to switch on the speaker. The white control LED starts flashing.

The Microlino 2.0 speaker can now be found and selected from the Bluetooth device list on your smartphone.

To charge the Bluetooth speaker, it can be connected to the enclosed charging cable via the USB socket.

If you have already established a connection to your Microlino speaker, you will be automatically connected every time the vehicle is switched on.

Charging the 48 V drive battery

DANGER

Improper charging, disregarding generally applicable safety precautions and improper handling of the high-voltage system can lead to hazards for people and material. There is a risk of fatal injuries, serious injuries due to burns, short circuits fire and explosion. When charging the high-voltage battery, adhere to the specified sequence of work steps.

End the charging process before unplugging the charging cable from the socket. Observe the safety instructions on the charging plug and the charging cable. Ensure that no work is carried out in or on the vehicle during the charging process.

IMPORTANT

To prolong the life of the battery, the vehicle cannot be charged at a continuous ambient temperature of -5 degrees or less. We recommend to drive a little to warm up the battery to be able to start the charging process.

If possible, do not allow the battery capacity to drop below 20%. When you park the vehicle, connect it to a charging station.

DANGER

The use of unsuitable or damaged sockets or charging cables may result in danger to life, serious injury from burns, short circuits, fires and explosions. Only use charging cables that are intended for charging a battery of electric vehicles and are approved for this purpose. Observe the manufacturer's instructions. Never use a damaged charging cable. Check the charging cable for damage (e.g. cracks, bends, damaged insulation) before each use. (e.g. cracks, bends, damaged insulation).

Replace a damaged charging cable immediately.

Only connect the charging cable to a professionally installed socket. Ensure that the socket is clean and undamaged. Do not make any changes or repairs to the electrical components. Never use extension extension cords, cable drums, multiple sockets or travel adapters as this will increase the resistance and can lead to short circuits, fires and explosions.

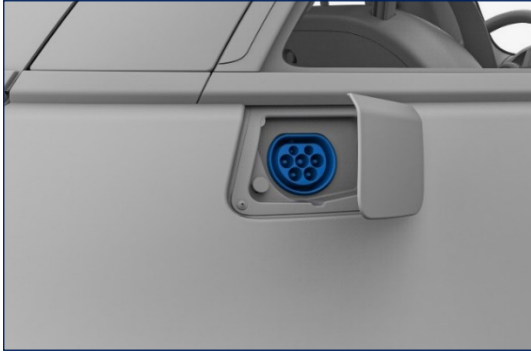


Fig.22 Charging socket at the rear right

The charging socket on the rear of the vehicle opens by pressing on the recessed area on the charging cover.

Charging at household sockets (Schuko sockets)

Please note that household sockets each have a maximum current rating, as well as a maximum current for continuous operation. The vehicle may only be charged at the maximum amperage specified for continuous operation, which is at 8A.

Have the connection checked by a qualified electrician before the first charging process. Have it checked again at regular intervals. For further information, please contact an authorised service partner. Use a Mode 2 charging cable with an integrated control unit in the cable for charging at a suitable household socket. With the Microlino chargers, the current intensity can be selected by pressing a button on the control unit.



Fig.21 Charging cable

Charging at public charging stations or Wallboxes

Charging is only possible at alternating current (AC) charging stations or wallboxes. Observe the instructions on the charging station or wallbox or with the supplied instructions. To charge at a charging station/wallbox, use a charging cable with a type 2 plug.

Charging cable for household sockets (Schuko)

⚠ WARNING

The charging cable is intended for charging the vehicle at a suitable infrastructure. Other use than specified is not permitted.

Use of other charging cables than intended increases the risk of damage to property and health. Avoid the following at all costs:

- Modifying/manipulating the charging cable
- Connecting the charging cable to unsuitable plugs
- Using a broken charging cable
- Bending, dropping or running over the charging cable

⚠ DANGER

Improper use of the charging cable may result in danger to life, danger of serious injury due to burns, short circuits, fires, arcing and explosions.

Make sure that no children use the charging cable. Keep animals away from the charging cable. Connect the charger cable only to the plugs provided for this purpose. Do not use adapter plugs, multiple sockets, extension cables or cable reels.

Do not use the charging cable in a potentially explosive environment where flammable liquids, gases or dust are present.

Ensure that the charging cable is not pinched, bended or held/laid under tension.
Protect the charging cable from moisture (also e.g. from wet hands, high-pressure cleaners, etc.)

Always clean the charging cable dry.
Do not use compressed air for cleaning.
Do not carry out any repairs on the charging cable.

Emergency release of the charging cable

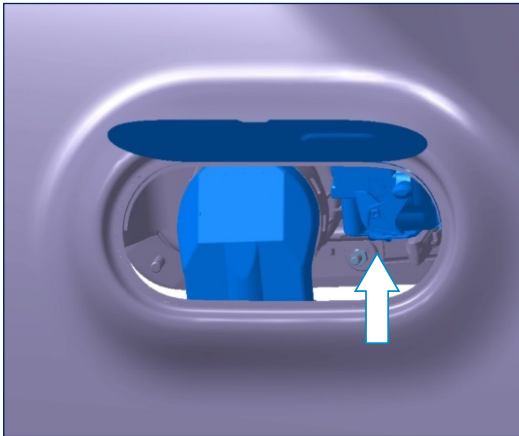


Fig.22 Emergency release of charging cable

In the event of danger or a technical defect, the charging cable can be unlocked via an emergency lock in the rear of the vehicle at the luggage compartment. If the lock does not unlock automatically after the charging process. The power supply to the charger must always be disconnected beforehand!

! IMPORTANT

It is recommended to contact an authorised service partner.

Start the charging process

! IMPORTANT

Charge the vehicle immediately after driving in cold ambient temperatures (0 °C or below). If the battery temperature drops too much, charging will not start. First connect the charging cable to the charging infrastructure (e.g. household socket) and then to the vehicle. Please also observe the manufacturer's guidance of the charging cable used. The charging socket has a locking pin that prevents unintentional insertion or removal of the charging plug. If the locking pin is disengaged before charging and you cannot insert the plug, it can be retracted again by successfully unlocking it. The locking pin is automatically extended when charging is started. The locking pin is retracted when the vehicle is locked and unlocked. The vehicle has a manual emergency release, see Fig. 22.

Charging procedure

- Switch off the Microlino.
- Select drive mode N.
- Apply the handbrake.
- Switch off all electrical equipment.
- Turn the start switch to position 0 and remove the vehicle key.
- Connect the charging cable to the power source.
- Once charging has started, a moving charging bar is displayed in the dashboard.

! IMPORTANT

If a charging error occurs, the signet in the dashboard lights up red. Check the connections for correct connection and possible damage. Contact a specialist workshop if problems occur.

End charging process

During the charging process:

- The charging process is terminated when you unlock the vehicle. If the charging cable is not unplugged, the charging process continues after a short time. Unlocking the vehicle again also ends the charging process.
- During the charging process, you can use the vehicle key to turn the start switch to position 1 and connect or switch on electrical equipment. This prolongs the charging process.
- The charging process is terminated when you turn the start switch to position 2 with the vehicle key. Readiness to drive cannot be established as long as the charging cable is connected to the vehicle. A corresponding text message appears on the screen. Disconnect the charging cable from the power source and stow it safely in the vehicle.

Vehicle loaded

! WARNING

Risk of injury due to unsecured and incorrectly positioned load. During braking maneuvers, heavy acceleration, sudden changes of direction and in accidents, unsecured or incorrectly positioned cargo can slip or be thrown around. This can result in injuries to the occupants.

Do not transport any objects unsecured in the interior. Do not transport heavy objects in open compartments. Observe the permissible total weight and do not overload the vehicle.

Storage and stowage

The Microlino has the following storage options in the interior: Storage in the sides, storage compartment under the luggage compartment floor

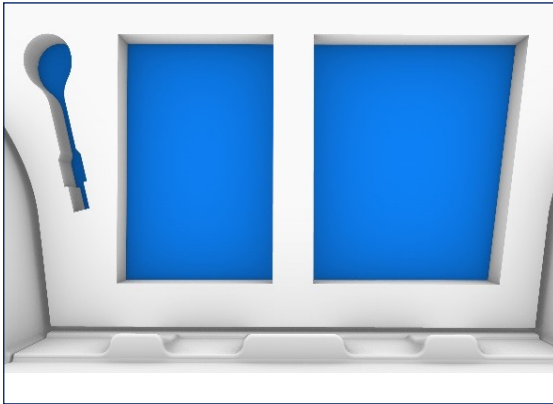


Fig.23 Trunk storage compartment

The storage compartment under the luggage compartment floor offers space for storing of:

- Charging cable
- Towing eye
- Additional charging cable (from accessories)
- Warning triangle and warning vest (optional extra)
- Luggage net (optional extra))

DRIVING

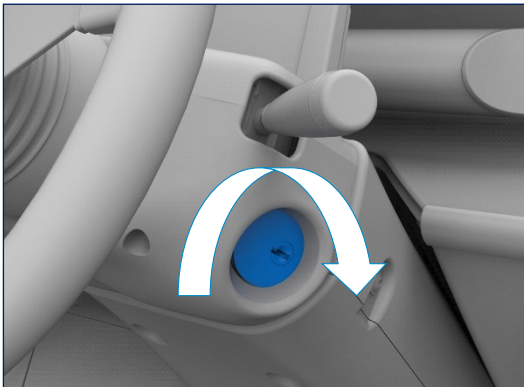


Fig.24 Ignition lock

Switching the vehicle on/off

Position 0	Starting position
Position 1+2	Vehicle electrical system switched on

Ready for operation to move the start switch to the desired position with the vehicle key.

Position 0 - vehicle switched off

The key can only be inserted and removed in this position. The vehicle is switched off and the steering wheel lock engages. Never remove the key while driving. Stop the vehicle completely before turning the key back to position 0.

Position 1+2 - Onboard electrical system Switched on

The dashboard is switched on and the electrical equipment are ready for operation. The steering wheel lock is inactive. The message displayed in the dashboard (see Fig. 25) indicates that the vehicle is ready for operation.

WARNING

When the start switch is turned from position 1 and pulled off, the vehicle systems are shut down and the steering wheel lock may engage. This can lead to loss of control of the control of the vehicle while driving, with the risk of an accident and serious or even fatal injury to the occupants and other road users.

Never turn the starter switch back from position 1 to position 0 while driving. Never remove the vehicle keys while driving. Stop the vehicle completely before turning the vehicle key back or removing it. The brake pedal must be pressed to be ready to drive. Turning the start switch to position 1 or 2 makes the vehicle ready to drive. The vehicle can then be driven and is fully switched on.

WARNING

The starting process is not accompanied by noises from the starter and the running engine, as is the case with vehicles with an internal combustion engine. Turn the ignition switch for operational readiness to position 1 or 2.

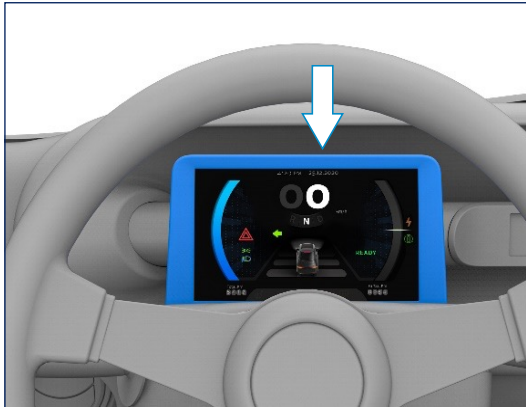


Fig.25 READY display in the dashboard

The green **READY** indicator appears when the vehicle is ready to drive.

A red **STOP** indicator appears when the ignition is switched on, if the vehicle is not ready to drive.

Warning and indicator lights in the dashboard

Red symbol: Immediate action required.

Stop the vehicle as soon as possible, as soon as the driving situation and traffic conditions allow. There is an urgent need for action, please contact a specialist workshop.

Yellow symbol: Safety-relevant information.

You can continue driving with restrictions and may have to visit a specialist workshop at the next opportunity.

Green symbol: Information about the operating status.

You can continue the journey in compliance with the instructions

Messages and warnings

All safety-relevant electronic components are electronically monitored for correct functioning before and during the journey. If a fault occurs, the corresponding warning lamp lights up. Since some warning lights require a reaction from the driver, they light up when the vehicle is started (key from Pos. 0 to Pos.1), so that the driver can check whether the display of the corresponding warning light is working and that a fault can be displayed correctly.













If these selected warning lights do not light up or go out after starting, have the vehicle checked at an authorised specialist workshop, as either the display itself is defective or there is a fault in the system. Please observe the instructions for the respective indicator light.



Fig.26 Displays in the dashboard

! IMPORTANT

The following warning and indicator lights inform you about the operating status of your Microlino:

- | | | | |
|---|------------------------------------|---|--|
|  | Hazard warning lights |  | Brake system error.
Please contact a specialist workshop |
|  | Parking light |  | Door open at the front |
|  | Low beam |  | Drive battery fault. Please contact a specialist workshop |
|  | High beam |  | |
|  | Indicator left |  | Drive battery fault. Stop the vehicle immediately. Please contact a specialist workshop |
|  | Indicator right |  | Drive train temperature too high. Please contact a specialist workshop |
| READY | Electric motor ready for operation | | |

The following light must come on temporarily at start-up.*



Error 12V battery. Please contact a specialist workshop.



Handbrake applied.



Drive train fault. Please contact a specialist workshop.



Overheating in continuous operation, power is reduced *

Handbrake

WARNING

If the parking brake is not properly applied when the vehicle is parked, the vehicle may roll away. This can lead to property damage, traffic accidents and personal injury.

Always make sure that the handbrake is sufficiently applied when leaving the vehicle.

Even on a downhill slope, the vehicle must be held securely by the handbrake. If necessary, place a suitable wedge under the wheels to prevent the vehicle from rolling away.

IMPORTANT

When the handbrake is applied, this is indicated visually in the dashboard and from 4km/h you will hear an acoustic feedback.

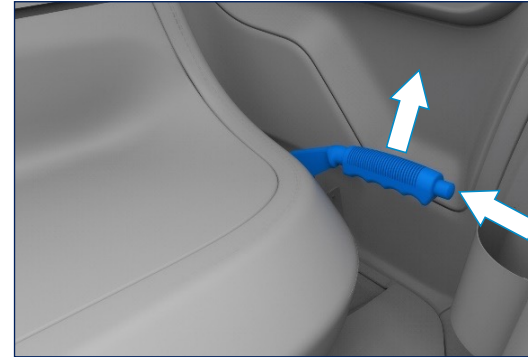


Fig.23 Trunk storage compartment

Apply the handbrake

Pull the lever as far as it will go to apply the handbrake. The indicator light in the auxiliary display of the dashboard lights up.

Dial for gear selection

WARNING

The Microlino is in running condition.



Fig.28 Gear selection lever

Apply the handbrake

Pull the lever as far as it will go to apply the handbrake. The indicator light in the auxiliary display of the dashboard lights up.

Selecting the driving gear

With the rotary switch you can select both the driving level as well as the driving mode.

To change the driving levels, the brake must be pressed. (message in the display)

N - Neutral (idling) Use driving level N /- to park the vehicle / - to switch the vehicle on and off. To change from N to R, turn the rotary switch to the left. Or To change from N to D, turn the rotary switch to the right. The gear indicator changes to the respective driving gear.

⚠ WARNING

R - Reverse gear: Do not engage reverse gear until the vehicle has come to a complete stop. Keep the brake pedal pressed. If necessary, shift to drive mode N and then turn the selector lever to the left. The gear indicator changes to R.

Sport Mode (Rocket Button)



Fig.29 Sport mode display

Your Microlino is equipped with a Sport mode. This allows you to increase the drive power for a zippy ride. Sport mode can be activated or deactivated via the pushbutton on the gear selection rotary switch after starting and is shown to you via the display. (Rocket Drive center bottom)

Sport mode is automatically deactivated after 5 minutes to optimize energy consumption. If necessary, the sport mode can be reactivated manually.

⚠ IMPORTANT

When Sport mode is on, the range of the vehicle is reduced.

Regenerative braking (brake function)

The regenerative braking function causes an engine braking effect that slows the vehicle without using the brake. When the driver reduces the accelerator, the vehicle slows down faster. The recovered energy is partly used to recharge the battery. It is shown in the right bar of the display.

⚠ WARNING

In certain situations, such as with a fully charged battery or temperatures below freezing point, regenerative braking may be limited and the braking effect may be less. This prolongs the life of the battery. The driver must always be ready to press the brake pedal.

State of charge of the drive battery

The battery's state of charge is indicated by the left bar in the display. When the battery's state of charge decreases, it changes colour from blue to orange at 15%. If it continues to drop without the vehicle being charged, it changes colour from orange to red. The vehicle will now switch to its emergency programme with reduced power.

⚠ IMPORTANT

Immediately find a place to charge the vehicle.

Overheating at maximum continuous load

If the electric drive is continuously overloaded, the unit may overheat. This is indicated in the display by the yellow warning light. The vehicle switches to its emergency programme with reduced power.

⚠ IMPORTANT

Do not drive any further. Park the vehicle and let it cool down. If the warning light does not light up again when you restart, you can continue driving as usual. If you ignore this message, it may not be possible to continue driving!

! IMPORTANT

If the warning light does not go out, please consult a specialist workshop.

Parking the vehicle

After completing the journey and before leaving the vehicle:
Apply the handbrake as far as it will go. Select driving gear N. Turn the start switch to position 0 and remove the vehicle key.

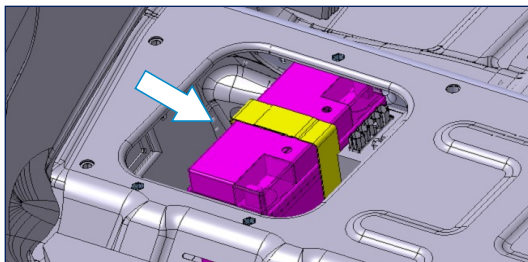
! WARNING

If the parking brake is not properly applied when the vehicle is parked, the vehicle may roll away. This can lead to property damage, traffic accidents and personal injury. When leaving the vehicle, make sure that the handbrake is always applied firmly enough. Even on a slope, the vehicle must be held securely by the handbrake.

MAINTENANCE AND REPAIR

! IMPORTANT

Risk of damage due to incorrect charger. Consequential damage to the 12 V battery may occur. Never use a starting aid („power booster“) to charge the 12 V battery. Never use a charger with a quick-charge function for the 12 V battery.



The 12 V battery is located under the luggage compartment cover at the rear left. Always consult a specialist workshop when the 12 V battery to a specialist workshop.

Fig.30 12 V battery

Refill windscreen washer fluid

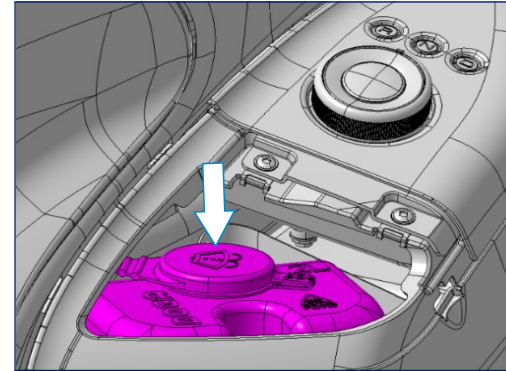


Fig.31 Container for windshield washer system

Open the flap at the front left behind the behind the rotary switch for gear selection.

Fill the container with a mixture of water and a suitable water additive.

This increases the cleaning effect and can serve as frost protection in cold conditions. Observe the manufacturer's instructions on the mixing ratio and frost protection.

Check brake fluid level

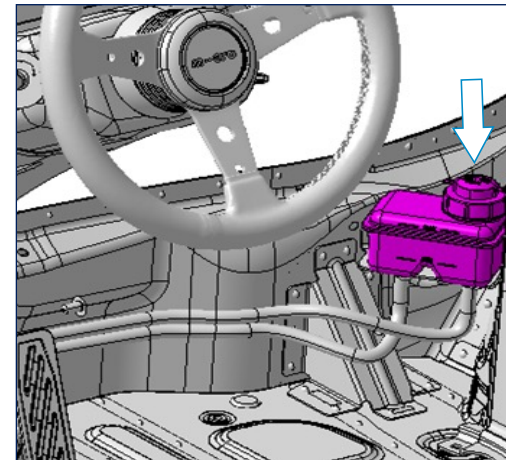


Fig.31 Container for windshield washer system

The liquid level in the tank must be between the MIN and MAX. The brake fluid reservoir is located under a cover in the front right footwell.

! IMPORTANT

If the fluid level is below the MIN mark, contact a Specialist workshop.

Backup overview

⚠ IMPORTANT

If possible, have the fuses replaced only by qualified personnel. There is a risk of permanently damaging the electronic components. It is recommended to contact an authorised service partner.

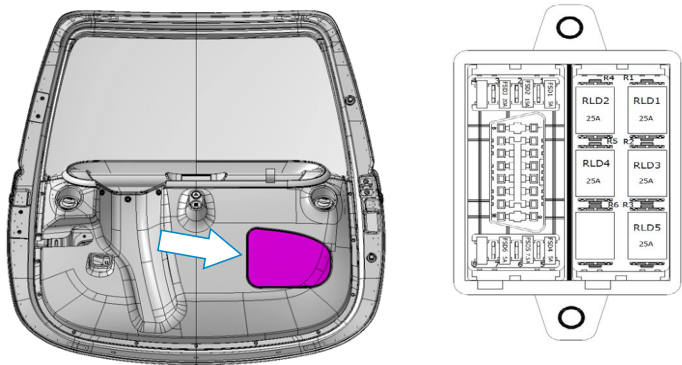


Fig.32 Front door locks

TYPE	Number	VALUE - A	FUNCTION	TYPE	SUPPLY TYPE	POSITION
FSD	1	5	Debug Port	Mini	Battery	1
FSD	2	15	Wiper	Mini	Battery	2
FSD	3	20	Blower	Mini	Battery	3
FSD	4	5	Fuse Relay Coil	Mini	KEY	5
FSD	5	7.5	USB	Mini	KEY	6
FSD	6	5	TouchScreen Logic	Mini	Battery	4
RLD	1	25	Wiper ON/OFF	Mini BLK/Double Cont	KEY	R1
RLD	2	25	Wiper Slow/Fast	Mini BLK/Double Cont	KEY	R4
RLD	3	25	Blower Slow	Mini BLK	KEY	R2
RLD	4	25	Blower Medium	Mini BLK	KEY	R5
RLD	5	25	Blower Fast	Mini BLK	KEY	R3

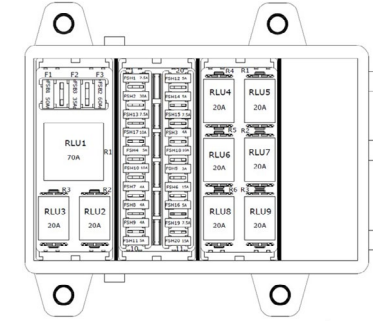
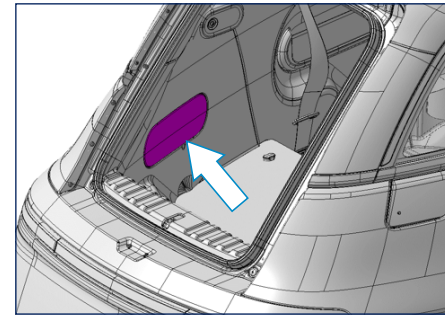


Fig.33 Trunk fuses

TYPE	Number	VALUE - A	FUNCTION	TYPE	SUPPLY TYPE	POSITION
FSH	1	7.5	Horn	Mini	Battery	1
FSH	2	30	VCU	Mini	Battery	2
FSH	3	4	Stop Lamp	Mini	VCU	17
FSH	4	5	IPC Logic	Mini	Battery	6
FSH	5	3	Gear shift	Mini	KEY	15
FSH	6	15	Defrost	Mini	KEY	14
FSH	7	4	Position Right	Mini	VCU	7
FSH	8	4	Position Left	Mini	VCU	8
FSH	9	4	DRL	Mini	VCU	9
FSH	10	10	Trunk Latch Actator	Mini	VCU	16
FSH	11	5	Turn Left	Mini	VCU	10
FSH	12	5	Turn Right	Mini	VCU	20
FSH	13	7.5	VCU Logic	Mini	Battery	3
FSH	14	5	LowBeam	Mini	RLU4	19
FSH	15	7.5	HighBeam	Mini	RLU5	18
FSH	16	5	Fuse Relay Coil & HV Battery Key	Mini	KEY	13
FSH	17	10	Control Door Lock ECU & HV Battery Sup & Charger	Mini	Battery	4
FSH	18	10	SoftCloseLatch_ChargerLock_Motor	Mini	Battery	5
FSH	19	7.5	Washer Pump	Mini	KEY	12
FSH	20	15	Seat Heater	Mini	KEY	11
FSB	1	50	LV BATTERY	MAXICOMPACT	DC/DC	F1
FSB	2	60	FUSE FUSEBOX BODY	MAXICOMPACT	BATT	F3
FSB	3	35	FUSE FUSEBOX DOOR	MAXICOMPACT	BATT	F2
RLU	1	70	KEY KL_15	STANDARD/Maxi	Battery	R1
RLU	2	20	Charging Pluge Lock	Mini BLK/Double Cont	Battery	R2
RLU	3	20	Charging Pluge UnLock	Mini BLK/Double Cont	Battery	R3
RLU	4	20	LowBeam	Mini BLK	Battery	R4
RLU	5	20	HighBeam	Mini BLK	Battery	R1
RLU	6	20	Horn	Mini BLK		
RLU	7	20	Washer Pump	Mini BLK	KEY	R2
RLU	8	20	SeatHeat	Mini BLK	KEY	R6
RLU	9	20	Defrost	Mini BLK	KEY	R3

Changing the battery of the remote control

Open the key housing as shown to remove the battery. Battery required: CR 2032 3 Volt



Fig.34 Battery change key

Replacing the illuminant

LED luminaires cannot be replaced. In this case, the complete luminaire unit must be replaced. In the event of a defect, please contact a specialist workshop.

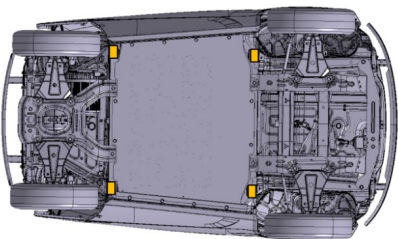
Flat tire

The Microlino does not have a spare wheel or a puncture kit as standard.

IMPORTANT

In the event of a flat tyre, please contact a specialist workshop.

Lifting points for the vehicle for lifting platform or car jack



WARNING

Only allow the Microlino to be operated by qualified personnel and with a suitable lifting device. There is a risk of damaging the drive battery. It is recommended that you contact an authorised service partner.

DANGER

Incorrect tightening torque or improperly handled wheel bolts can lead to loss of vehicle control, accidents and serious injuries..

- Always keep all wheel bolts and threads in the wheel hubs clean and free of oil and-grease.
- The wheel bolts must run smoothly and be tightened to the prescribed torque.
- If the wheel bolts are tightened with a too low tightening torque, the wheel bolts and rims may come loose while driving.
- A greatly increased tightening torque can damage the rims, wheel bolts and threads.
- Check the tightening torque regularly with a torque spanner.

Wheel bolt tightening torque steel rims: 40 Nm

WARNING

Have the wheel change carried out only by qualified personnel of a specialist workshop with a suitable lifting device. Otherwise there is a risk of damage to the vehicle or personal injury. It is recommended that you contact an authorised service partner.

IMPORTANT

Risk of damage due to incorrect towing. If the wheels of the drive axle touch the ground during towing, damage may occur to the drive unit. Only tow the vehicle with the rear axle raised. If possible, have the vehicle transported with both axles on a tow truck, car transporter or trailer.

IMPORTANT

Never pull the vehicle onto a towing vehicle by the rear cross members. The Microlino isn't allowed to be towed with a tow rope or bar. The Microlino is not designed for towing other vehicles and therefore does not have a rear towing eye.

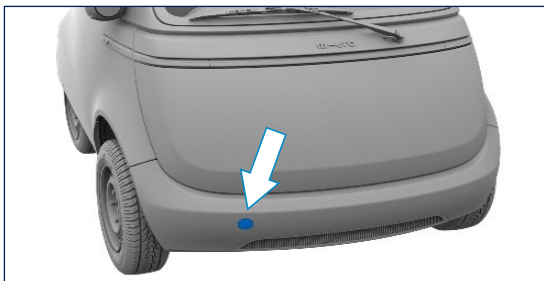


Fig.36 Towing eye

Attaching the towing eye at the front
You will find the towing eye in the luggage compartment under the luggage compartment floor. Pull off the cover on the front bumper. Insert the towing eye through the hole in the thread and turn it clockwise to tighten it (right-hand thread).

Care

! IMPORTANT

Risk of damage from steam jet or high-pressure cleaner. When using steam jets or high-pressure cleaners, the vehicle's electrical system can be damaged by the water penetrating the system. Never use steam jets or high-pressure Contact an authorised service partner if you have any questions about the care and maintenance of the vehicle.

Risk of damage due to underbody washing. During an underbody wash, the vehicle's electrical system may be damaged by penetrating water. Never apply a car wash programme with underbody washing.

Due to its different track width, the Microlino is not suitable for washing vehicles in automatic car washes. It is best to wash your Microlino gently by hand. Do not use any pointed or sharp-edged objects to clean the glass and mirrors.

Do not use any cleaning agent that has a mechanical effect or contains alcohol. Always follow the cleaning agent manufacturer's instructions for use. Use a dry, soft cloth or a microfiber cloth and suitable cockpit care.

Maintenance interval

The maintenance interval is one year or 10,000 km, whichever comes first. Make sure that the maintenance instructions of Microlino AG are observed. (see the service booklet supplied).

! IMPORTANT

To maintain the warranty, you must comply with the maintenance intervals.

Parking the vehicle for a longer period of time

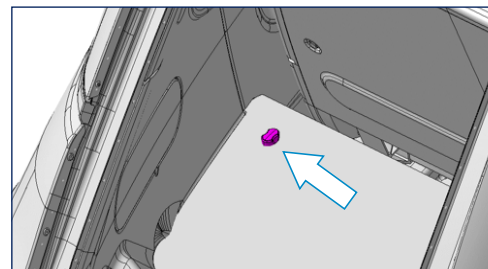


Fig.37 Voltage interruption



If the vehicle is not used for a longer period of time (more than 2 weeks), we recommend to disconnect the 12V power supply with the rotary switch at the rear left of the luggage compartment. This prevents discharge due to quiescent current. To restart the vehicle, turn the switch back to its original position. It will engage perceptibly.

! IMPORTANT

After switching off the 12V power supply, the vehicle can only be unlocked manually! (see chapter mechanical unlocking)

! IMPORTANT

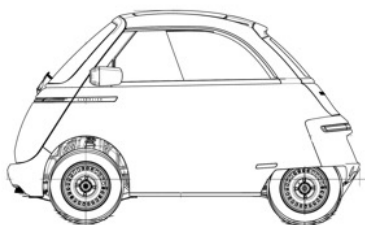
Store the vehicle dry and with the drive battery charged.

! IMPORTANT

When restarting the vehicle after flipping the switch, wait approx. 5min. before driving off to ensure full function of all electronic displays.

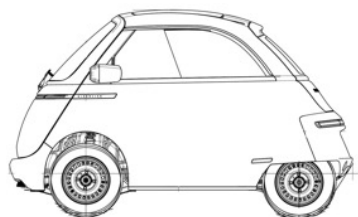
TECHNICAL DATA

Notes on the vehicle



- Chassis number; In the right-hand footwell punched into the sheet metal under the carpet
- On the engine: Engine type plate
- Rear tailgate: Tyre pressure sticker
- On the lower edge of the side sill; Marking for lifting points (on both sides of the sides of the vehicle)

Dimension



Overall length	2519 mm
Overall width	1473 mm
Total height	1501 mm
Edge distance	1566 mm
Track width front	1250 mm
Track width rear	930 mm
Turning circle	7400 mm

Wheels and tyres

- Steel rim 4.5 J x 13H offset 30 with tyres summer or winter 145/70 R13
- Steel rims: 40Nm wheel bolt tightening torque
- Tyre pressure front and rear 1.8 bar

BATTERY & CHARGE	SHORT RANGE	MEDIUM RANGE
Battery capacity (kWh)	6	10.5
Battery technology	Li Ion NMC / NCA Technology	Li Ion NMC / NCA Technology
Reichweite (ca. KM*)	91	177
Ladezeit an Haushaltsteckdose SOC 80% (ca.h)	3,5	3,5
Ladeleistungen OBC (kW)	1,35	2,6

BATTERY & CHARGE	SHORT RANGE	MEDIUM RANGE
Power (kW)	12,5	12,5
max. torque (Nm)	89	89
Power consumption driving mode according to WMTC (approx. kWh/100km)	5.93	6.59
Electricity consumption incl. charging losses (kWh/100 km)	13,9	13,9
Gasoline equivalent calculated (approx.l/100 km)	1,5	1,5

DRIVING PERFORMANCE	SHORT RANGE	MEDIUM RANGE
Acceleration 0-50 km/h (s)	5	5
Maximum speed (km/h)	90	90

WEIGHT	SHORT RANGE	MEDIUM RANGE
Unloaded weight without battery (kg)	435	435
Unloaded weight incl. battery** (kg)	596	613
Permitted total weight (kg)	750	750
Load capacity (kg) ***	154	137

* depending on driving style, distance, temperature and number of electrical equipment switched on

** including full equipment for a driver of 75kg

*** payload for passenger and luggage for a driver of 75kg

WARRANTY

The two-year Microlino new vehicle warranty without mileage limit applies. The warranty period begins on the day of the actual handover of the new vehicle to the first customer or on the day of the first registration, whichever comes first.

The drive battery installed in each case is guaranteed for 6 years or 2500 charging cycles.

The buyer is entitled to the repair of faults and damage caused by these to other parts of the parts of the vehicle (rectification). The warranty obligation is not affected by change of ownership of the automobile. The warranty expires if:

- The purchaser does not report a fault immediately and an authorised service partner is not given the opportunity to rectify the fault.
- The vehicle has been improperly handled or overused, e.g. during competitions, off-road driving, etc.
- The vehicle has not been repaired or maintained in accordance with the maintenance, repair guidelines and care of the vehicle (e.g. operating instructions or properly kept service booklet) or if the defect is due to an - even if only temporary - vehicle overload/overloading, technical manipulation or operating errors on the part of the driver's operating errors.
- Surface damage occurs which is due to external influences (e.g. stone chips, state of care, environmental influences, etc.).
- The defect that occurs is causally related to the fact that during previous maintenance, repairs or installations were not carried out using original parts were used.
- The defect that occurs is causally related to the fact that the vehicle has been fully or partially wrapped.

Natural wear and tear is excluded from the warranty. This applies to all parts of the vehicle, which are subject to constant wear and tear as part of their normal function (such as z. e.g. fuses, filters, brake discs, brake pads, shock absorbers, tyres, windscreen wiper blade, lamps, upholstery, floor coverings and the like).

The same applies to damage to windows after the vehicle has been taken over by the buyer.

Warranty services do not extend the warranty period and do not initiate a new warranty period. Defects claimed within the warranty period but not remedied are covered by the warranty until they have been remedied; in the case of this defect, the warranty period is suspended. However, it ends at the latest three months after the authorised service partner declares that the defect has been eliminated or that there is no defect.

The following are excluded from the warranty (warranty exclusions):

- Replacement of wear parts (e.g. tyres, brake pads and discs, cabin filters, windscreen-wipers).
- Elimination of vibrations and noises resulting from the operation of the vehicle operation of the vehicle.
- Elimination of colour deviations, changes or deformations of the parts due to their normal ageing.
- Elimination of damage caused by use and consequences of non-compliance with regulations, of non-compliance with regulations listed in the operating instructions or which have been neglect duties of care.
- Elimination of damage and consequential damage caused by the use of liquids, substitute not approved by the manufacturer, spare parts or accessories, lubricants or additives. or additives not approved by the manufacturer.
- Elimination of damage and consequential damage caused by natural forces (e.g. hail, flooding, lightning, storms or other atmospheric phenomena), accidental damage (e.g. fire, water, falling rocks, broken glass, etc.) or other external influences (e.g. war, civil war, riots, vandalism, theft, rodents, pets, bird droppings, etc.).

IMPORTANT

Microlino AG complies with the legal warranty framework and regulations of the countries in which it carries out its activity. The new car warranty is granted voluntarily by the brand: it is granted in addition to the existing legal provisions.

It grants the customer, within the limits previously established (in particular territorial, time and mileage related), the right to free repair or replacement of parts of his vehicle recognized by the brand as defective, provided that the corresponding work is carried out within the brand's network of authorized contractors. An overview of the authorized contractors can be found on the manufacturer's website.

The territorial areas refer to the mainland of the delivering country. The performance of warranty work in overseas territories and on islands will be carried out by case-by-case decisions of the manufacturer at reasonable distances.

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For more information about the vehicle, refer to your manual. The language can be changed on the website.



Watch the instruction video.

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