User Manual
GAIA and Gaia E-Rail
Powered Stretcher and Platform

GAIA

CE

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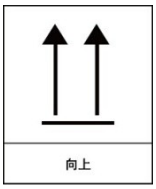
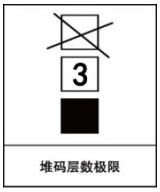
Graphics, symbols, warnings on the device

Graphics	Instructions
	Up: indicates that the transport package should be vertically up during transport
	Fragile goods: indicates that the transport package contains fragile goods and should be handled with care.
	Rain proof: indicates that the package is rain proof
	Stacking layer limit: indicates the maximum number of layers that can be stacked for the same transportation package. The maximum number of layers is 3
	Warning attention
	It is classified as type B application part according to the degree of protection against electric shock
	Warning Hands Pinching
	Maximum Loading Weight

Warnings and Safety

Danger of falling at the same level

Pay special attention when moving close to the equipment, taking into account the danger of falling inside the vehicle.

Danger of falling on an uneven level

When moving close to the equipment, pay special attention to the danger of falling from inside the vehicle to the outside.

Danger of impact/collision

Carry out regular maintenance to reduce the risk of shock or collision from "seized" parts, with high wear and tear or looseness.

Danger of overloading or overstraining the operator

Regular maintenance actions to reduce the risk of shock or collision from "seized" parts with high wear or looseness.

Danger of virus contamination

Carry out regular cleaning actions to reduce the risk of contamination (see section Cleaning and Disinfection).

Description

ELECTRIC STRETCHER

The Gaia Electric Stretcher makes loading and unloading a patient one of the easiest jobs.

Its structure is built in highly resistant aluminum alloy, and the fixing points for the trolleys are reinforced in steel or stainless steel. Likewise, all aluminum profiles were designed with attention to their mechanical strength and final appearance in mind.

Product Details

This product consists of a stretcher (framework, wheels, brackets, hydraulic system) and accessories (battery, guardrails, IV Pole).

The stretcher bracket is made of aluminum alloy and steel, and the frame is made of aluminum alloy.

According to the electric shock protection classification, this product belongs to the ordinary equipment of the internal power B type application.

Product operation mode: intermittent load continuous operation

Applicable Scope

It is used for medical institutions to transport and transfer patients.

Features

1. The height of the stretcher is adjusted by a power hydraulic pump.
2. Only one person is needed to load the stretcher onto the ambulance.
3. It has wide caster wheels to accommodate complex road conditions.
4. This stretcher is made of aluminum alloy material, which is safe and convenient to use and easy to clean.

Technical features GAIA

- Battery-powered hydraulic lift system
- Made with high-strength aluminum alloy which is hardened and coated.
- The length of the stretcher can be adjusted to fit in a narrow place such as an elevator
- Equipped with four wheels, two of them with brakes
- Nappa lined mattress
- Three-point belt kit
- Equipped with extensible IV pole
- Rechargeable 36V lithium battery
- Manual pressure relief function which can move the stretcher up and down when the battery power is not enough.

Specifications

Dimensions (LxWxH)
High Position 1970 x 580 x 1150 mm
Low Position 1970 x 580 x 360 mm

Weight
73,3 Kg

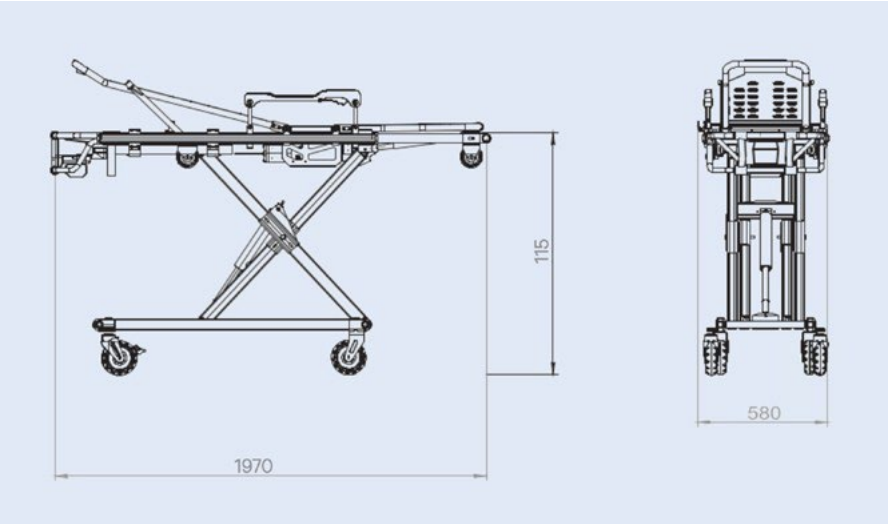
Maximum Load Capacity
300 kg

Wheels Diameter
150 mm

Warranty
2 years

Work pressure: 14MPa
Input voltage: 36VDC
Solenoid Valve Voltage: 36VDC
Motor power: 1440W
Hydraulic oil medium: CHF 11S
Power unit operating temperature: -34.4Cº to 60Cº

Input power time: ≤2 hours
120 times with no loading
100 times with loading



Gaia Platform - Easy Loading

The Gaia electric stretcher along with its platform makes loading and unloading a patient one of the easiest jobs. With a push of a lever and a button you can lift and load a patient with up to 300 kg in an ambulance with no effort at all.

Dimensions (LxWxH)

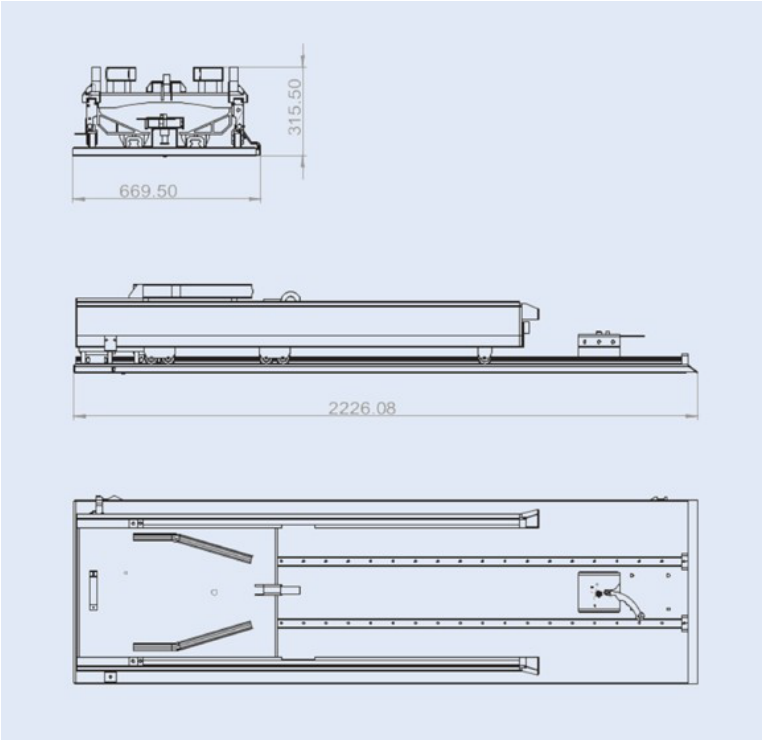
High Position 1970 x 580 x 1150 mm
Low Position 1970 x 580 x 360 mm

Weight

135 Kg

Warranty

2 years



User Manual

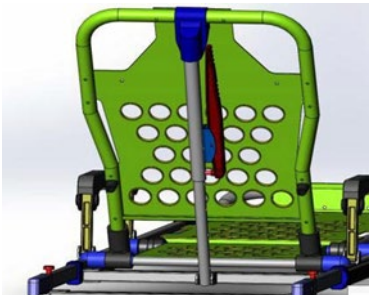


Figure 1

Adjust the backrest angle: Hold the red handle under the head of the stretcher and lift it up; to return to the original position, hold the red handle and pull the backrest back. This movement is done using a mechanical telescopic tube (Figure 1).

Leg angle adjustment: Lift the leg rest up to the highest position where it will automatically lock; to return to the original position, lift the locks on both sides to unlock the leg rest and lay it back down.

Safe transportation: The guardrails on both sides of the frame of the stretcher can be raised or folded as needed. When lifting, simply pull the guardrail up to the highest position where it will automatically lock; when folding, press the red button (Figure 2).

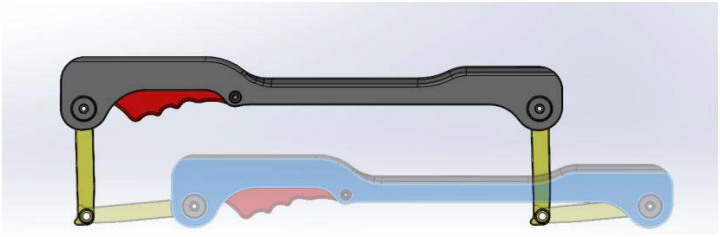


Figure 2

Warning: When adjusting the stretcher guardrail up and down, be careful not to hurt your hands.

Stretcher height adjustment

Adjusted by the control at the rear of the stretcher (Figure 3)

"+" raises the height

"-" lowers the height

Warning: The electric lifting system can't be operated continuously - you need to wait one minute to use it again after having finished one lifting circle.

Figure 3

Note: When the battery is low, in an emergency, the manual lifting handle on the side of the stretcher can be used to lift it (Figure 4).

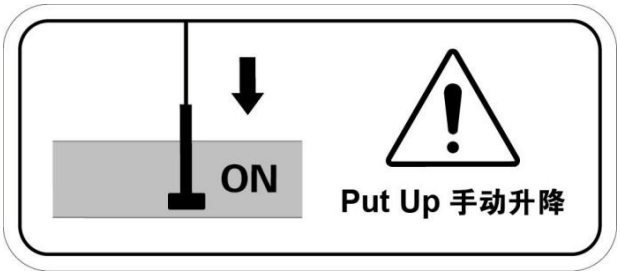


Figure 4

To raise manually: Two operators are needed for this operation. Hold the manual pressure relief handle and lift the stretcher at both ends (one operator in each side). Loosen the handle in place and wait until the stretcher is fully stable. Release the handle.

To drop manually: Two operators are needed for this operation. The operators will now lift the stretcher and then hold the manual pressure relief handle. The stretcher frame will be lowered under the weight of the stretcher. Release the handle when it is in the lowest position, wait until the stretcher is fully stable then release the handle.

Battery installation

Insert the battery into the socket in the direction of the arrow shown in Figure 5 from left to right at the bottom of the plastic case and that automatically locks after a "click" sound.

When removing the battery, press the red button indicated by the arrow marked in Figure 3 and press it to the right. when unlocked remove the battery from the right side.

Figure 5

Figure 6

Note:

1) Please make sure the battery is charged before using the stretcher. If the battery level is low, you need to put the battery into the charger (Figure 6) to charge.
2) Our recommendation for the charger is the model: AL 3640 CV or GAL 3680CV
3) Do not use chargers from other informal manufacturers.
4) Battery charging: Use the charger (Figure 6) for 220V charging.
5) When the battery is charging, the green light on the charger flashes; when it is full, the green light stays on. If it is not charging correctly the red light will turn on.

Loading the stretcher into the platform track

Push the stretcher onto the stretcher rails (Figure 7), and place the four small wheels on on the track of the stretcher, then fold the stretcher (press the "-" button). When the stretcher is in the lowest position (Figure 8), push the rotating handle to left side to unlock whole track (as shown in Figure 9). Push the stretcher and the track as a whole in the platform until it locks in position (Figure 10).

Figure 7

Figure 8

Figure 9

Figure 10

Unloading the stretcher from the platform track

Firstly, open the stretcher lock (push red handle to left side to unlock- as shown in Figure 11), meanwhile pull out the stretcher together with the track outside of ambulance until it locks automatically in place.

Figure 11

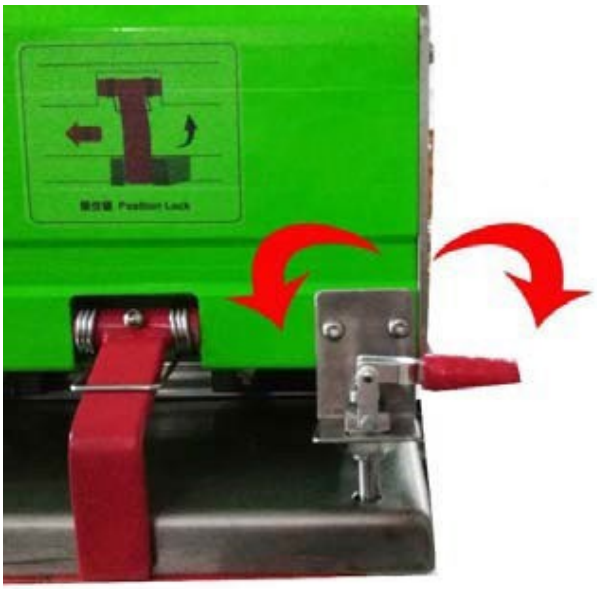


Figure 12

WARNING: When pushing and pulling the stretcher in the track, it must be ensured that the electric stretcher is fully folded to its shortest position and that it is locked in the track. If the stretcher is pushed and pulled in the platform while unlocked, there is the risk it being pulled out of the tracks/platform.

When the stretcher is not in the ambulance, during driving, the track must be fixed in the platform by the lock on the front section of the track (Figure 12).

Note: If the stretcher is being loaded on the track, it must be in the unlocked position.

Track installation

The position corresponding to the green and blue holes on the track (Fig. 13) is fixed with M8 bolts. Note that the bolt head cannot exceed the track surface (to prevent the slider from moving).

The position corresponding to the red hole on the plate (Fig. 13) is fixed with M8 bolts.

While installing the platform at the rear entrance of the ambulance, please ensure that the door can be closed and the electric stretcher can load into the ambulance (if the ambulance has a pedal blocking the car, you will need to remove the pedal), as shown in Figure 14.

Simulate the position of the platform in the ambulance before drilling. After ensuring that the ambulance doors are barrier-free, use a marker to mark the position of the drilling hole in the ambulance floor.

Note: Make sure that the floor of the ambulance car is flat beforehand.

Warning: Always check the position of the car's fuel tank and other car parts before drilling, to prevent accidents.

When fixing the platform, the position of the blue holes (pointed by the arrow on the platform) should be securely fixed with bolts. If it cannot be done, the fixation should be done in the nearest hole (Figure 13). The green and red holes are fixed according to the body condition.

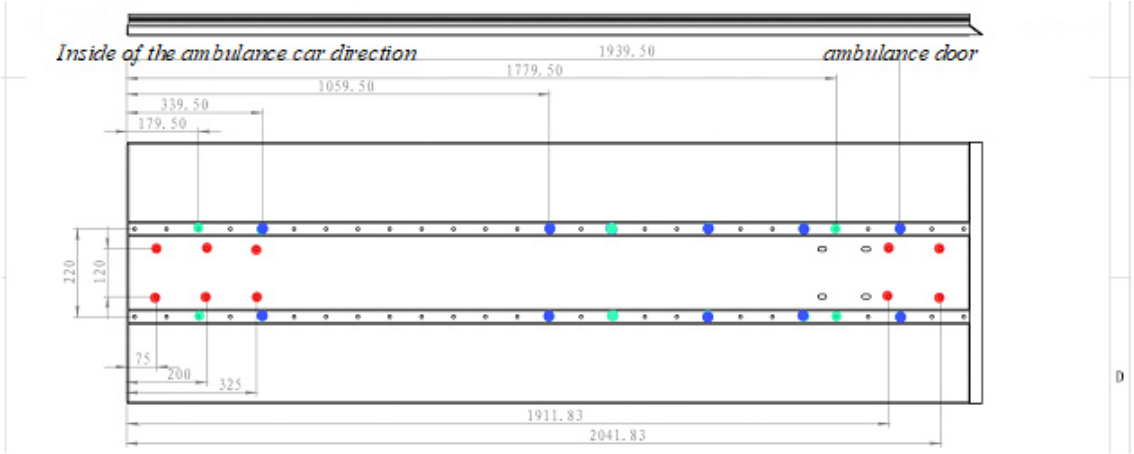


Figure 14

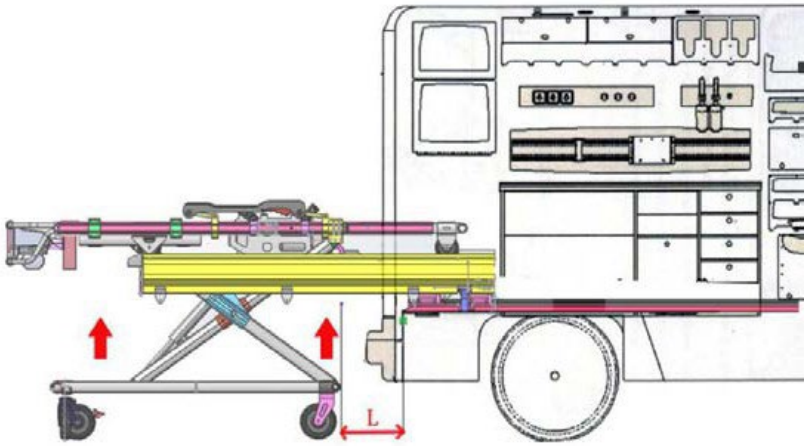


Figure 13

Intra Venus Pole

1. The stretcher is equipped with an IV pole. If you need to use it upright, please put it in position A.
2. When adjusting the height of the IV pole, turn the lock knob B counterclockwise, stretch the rod C, and after reaching a certain height, turn the lock knob B clockwise to tighten.
3. If a higher position is required, stretch the rod D to the longest position until the locking piece E is stuck.
4. The drip bag can be hung on the hook identified with the F letter. (Figure 15 and Figure 16)
5. It can be folded if not in use, and the operation steps are reversed following the above steps No.1-4.

Warning: The loading weight is 5KG

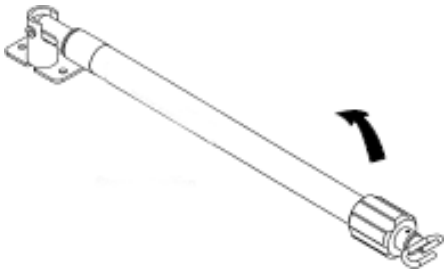


Figure 15

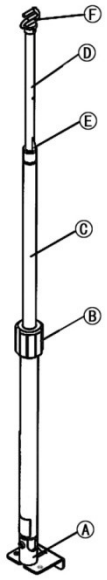


Figure 16

Stretcher length adjustment (can be used in ordinary elevators or narrow spaces)

Length adjustment of the stretcher surface: shorten the length by first adjusting the backrest angle to the maximum position, and then pull the red telescopic adjustment lever (see Figure 17) to shrink the length.

Schematic diagram of the overall contraction (shown in Figure 18)

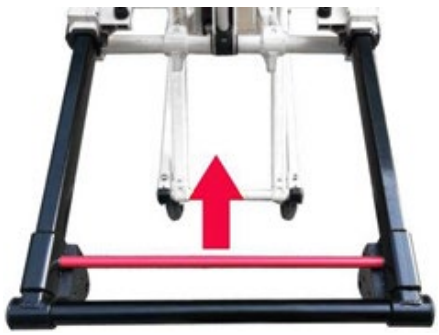


Figure 17

Figure 18

Cautions

1. The operator should be experienced using the stretcher and have first aid skills.
2. In the process of use, the operator must follow the instructions, or the company will not be liable for any risk.
3. When the stretcher is unloaded of the ambulance, it should be carried out on a flat ground. To ensure safety, the legs of the wheels must be fully extended in the air before the wheels can leave the car, to avoid falls and injuring the patients when the stretcher lands.
4. Illegal and barbarous operation is strictly prohibited, and overload operation is not allowed to avoid damage caused by improper use of stretcher.
5. If the screws and nuts on the stretcher are loose, they should be tightened in time and lubricated when necessary.
6. If the battery cannot be normally used, contact the manufacturer. If the parts are replaced, the replaced parts shall be handled according to relevant national regulations.

Maintenance

1. Always keep the stretcher clean and tidy.
2. Cleaning of the stretcher:

The cleaner used on the surface of the electric stretcher and the restraining belt is in accordance with the neutral cleaning agent specified in 9.3 of the Hospital Disinfection Supply Center Part 1: Management Regulations: pH 6.5-7.5, neutral cleaner which is non-corrosive to metal.

When the stretcher is used for the first time or after long-term storage, it is necessary to clean the whole stretcher. You can use a neutral detergent to clean the whole structure (remove the battery, pay attention to the circuit control part should not touch the water during the whole cleaning process). The parts of the stretcher which have more human contact (mattress, guardrail, handle, restraint belt) should be wiped and cleaned with a medical enzyme-containing neutral detergent. After wiping with the cleaner, rinse with clean water and air dry. Use 75% alcohol to wipe the main contact parts (handle, restraint band) before each use.

After each use, the main contact parts (handle, restraint belt) must be wiped and cleaned with a medical enzyme-containing neutral detergent. After the cleaner is wiped off, rinse with clean water and air dry.

Clean the electric stretcher once a month and wipe the cleaner every time you clean it. After cleaning the water will evaporate.

Cleaning precautions:

1. Always remove the battery! Do not clean the electric stretcher when the battery installed.
2. Full compliance with the detergent manufacturer's dilution recommendations.
3. Check the condition of each part of the stretcher before each use. Check whether the fixing parts such as screws are loose and check the moving parts of the stretcher every three months.
4. Check the restraint belt for wear before each use. If it is excessively worn, it should be replaced.
5. Battery maintenance:
   - In normal use, it is not recommended to charge the battery when completely discharged but charge it at the power 10-20%. Complete discharge can have an impact on battery life.
   - If the device is not used for a long time, it is recommended to take the battery off the device, store it in a dry and cool environment, and charge the battery every 3 months. If the battery power is too low due to self-discharge, it can cause irreversible capacity loss. The self-discharge of the battery is affected by the ambient temperature and humidity. The high temperature and the wet temperature will accelerate the self-discharge of the battery. It is recommended to store the battery in a dry environment at 0 °C ~ 20 °C.

Scheduled Maintenance

The regular maintenance of the equipment must be done to maintain its correct operation. Set up and follow a maintenance schedule. The table below indicates the minimum intervals for maintenance.

Keep maintenance records updated.

When using maintenance products follow the manufacture’s instructions and read the manufacturer’s material safety data sheets.

Minimum Maintenance Intervals	Each Use	As Needed	3 Months
Disinfecting	X		

Cleaning	X	X	
Inspecting			X
Lubricating			X

Table 1. Minimum maintenance intervals

Disinfecting / Cleaning (each use)

- Use detergent/disinfectant products compatible with aluminum, stainless steel and rubber.
- To clean check carefully the product concentration suggested by the manufacturer, to avoid damaging the material of the equipment.
- Rinse with a limited quantity of water, dry as much as possible and lubricate guides, bars and sliding parts.
- If operated in an aggressive environment (for example saline environment), it is recommended a cycle of washing/lubrication every day for protection of the exposed parts.
- The manufacturer will not accept responsibility for any damage caused by the use of a cleaning product that may damage the surface material.

Do not use any kind of solvent or diluent for the cleaning of the surfaces.
Do not use water jets.

Inspecting (Every 3 months)

- Is necessary to check the parts used for immobilization purposes.
- Verification of tightness of connection elements. Adjust if necessary.

Lubricating (Every 3 months)

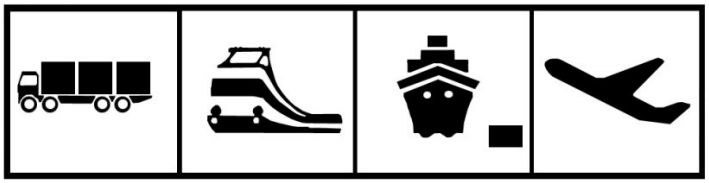
- Clean the guides using a soft cloth removing the used grease and dirt (before lubrication).
- Lubricate the elements of mechanical operation with high viscosity lubricant.

Storage

1. Recommended storage temperature: -10 °C ~ 45 °C.
2. Relative humidity range: ≤80%
3. Atmospheric pressure range: 50.0kPa ~ 106.0 kPa

Transport

By usual means of transport: truck, train, vessel or plane.



Copyrights

Declaration of Conformity

This product complies with all requirements demanded by law.

The declaration of conformity can be obtained from: https://arequipment.com/wp-content/uploads/2020/09/2C_DT_GAIA_EU-DECLARATION-OF-CONFORMITY.pdf

Warranty

Auto Ribeiro Lda. grants a 2-year warranty starting from the product's purchase date, with the exception of batteries and peripherals, which have only 6 months.

Products that are defective due to material, manufacturing or assembly faults are eligible for warranty, provided that the technical analysis has revealed the existence of items with proven defects and within the warranty periods.

For the verification of the quality of the products involved, the results obtained in our facilities or by service centers authorized by Auto Ribeiro, Lda. shall prevail.

It is necessary to present the invoice together with the non-compliant product to prove its origin and the respective warranty period.

Auto Ribeiro, Lda. to restore the product's conformity may decide to repair or replace the product or its components.

The warranty does not cover:

- Periodic maintenance and repairs or replacement of parts arising from misuse or rapid wear and tear.
- Consumables (components that may need periodic maintenance during the life of the product)
- Wear parts (wheels, shock absorbers, brakes, rubber grips, etc.)
- Transportation costs or risks associated with transporting the product to and from Auto Ribeiro, Lda.

The warranty will be rejected in the following cases:

- If the defect is attributable to incorrect use or incorrect handling of the product;
- If the defect occurs due to lack of maintenance or incorrect maintenance;
- If the defect is caused by transport or any testing operation of the product;
- Whether the defect occurs due to the use of chemicals and/or cleaning products.
- If the defect results from the use of components not supplied with the product or from subsequent installations and transformations, as well as accessories installed by third parties not authorized by Auto Ribeiro Lda;
- If the defect is caused by natural wear and tear due to use.

! Attention ! - Whenever a manufacturing fault is detected, either in the material or in the operation of the product, Auto Ribeiro Lda undertakes to identify all products affected and to contact its customers to replace or repair the defective product.

Auto Ribeiro Lda. is not liable for any indirect damages, including economic loss or non-assessable damage. Loss of profits due to product deterioration or inoperability associated with Auto Ribeiro Lda's defects or unavailability that has caused downtime, loss of user time or an interruption in business, is not the responsibility of Auto Ribeiro Lda.

Special conditions of specific contracts or eventual campaigns may alter the general conditions set out in this Warranty.

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