INSTRUCTIONS FOR USE

Developed by:
AUTO RIBEIRO, LDA.

arIEquipment

CE

ELECTRIC STRETCHER AND STRETCHER SUPPORT

GAIA

IFU-ELECTRIC-STRETCHER-AND-STRETCHER-SUPPORT-GAIA-REV.02

EDITION DATE: 28/06/2022
REVISION DATE: 06/08/2025
REVISION: 02

INDEX

Customer Relations

For assistance with your order or general information:

Contacts

Auto Ribeiro, Lda. - Rua S. Caetano, 551
4410 - 494 Canelas
Vila Nova de Gaia, Portugal.

Phone: (+351) 227 157 100

Website: www.arequipment.com

Legal Notice

This manual contains general instructions for use, operation, and maintenance of the product, and is not exhaustive. Safe and correct use is the sole responsibility of the user.
The safety information is provided for guidance only, and it is the user's responsibility to comply with applicable standards and protocols.
It is essential to undergo appropriate training before using the product in a real-world context.
Keep this manual and ensure that it accompanies the product in case of transfer. Additional copies can be requested from Customer Support.

Limited Warranty Conditions

Auto Ribeiro's products are covered by a limited warranty, the terms and conditions of which are set out in the documentation provided at the time of purchase.
Full information about the warranty and its limitations can be requested directly from Auto Ribeiro Customer Service.

Adverse Reaction Warning

In the event of an adverse event or serious incident related to the use of this product, the user must report the incident to Auto Ribeiro and the competent authorities, in accordance with Regulation (EU) 2017/745 on medical devices.
To report directly to Auto Ribeiro, use the contact channels indicated in this manual.

Indications, Contraindications, and Target Groups

Transportation must always be carried out using all restraint systems supplied with the equipment. The load capacity must not be exceeded. Safety warnings are mentioned in the equipment's operating instructions and are also added in the form of a sticker on the device itself.

Target Patient Population and Clinical Condition to be Diagnosed

Patients in hard-to-reach locations. Applicable whenever the user considers that the patient and their clinical condition allow for safe transport.

Installation, Maintenance, Assembly, and Calibration Instructions

Ensure that only components and services approved by Auto Ribeiro are used for maintenance and repairs. Also use only accessories approved by Auto Ribeiro, thus ensuring the safety and functionality of the product.
It is recommended that maintenance be carried out at the ARSII technical assistance service.

Instructions for Safe Use

This device is intended for use by qualified operators who have received training for this purpose. Its operation facilitates its usability, as it is adaptable to a wide range of vehicles.
The instructions for use of the equipment must be read in full before use.

Storage and Handling Conditions

It is packaged in such a way that its characteristics and performance during its intended use are not adversely affected during transport and storage.
Packaged in a cardboard box, covered with protective bubble wrap on the top surface, and sealed with metal staples.
This product is not affected by temperature or humidity variations.

Contacts

ARService - Rua da Urtigueira, n.º 288 e 298
4410-304 Canelas,
Vila Nova de Gaia, Portugal.

Phone: (+351) 227 157 104
Mobile: (+351) 910 556 363

E-mail: geral@arservice2.com

INTENDED PURPOSE OF THE DEVICE

The product was designed to load and transport patients with the least possible effort in pre-hospital, hospital and ambulance transport.

STANDARDS APPLIED

EN ISO 14971:2019; EN ISO 15223-1:2021 - Application of risk management to medical devices. Symbols to be used on medical device labels, labeling and information to be provided.
EN ISO 20417:2021; EN ISO 10993-1:2018 - Information requirements to be provided by the medical device manufacturer. Biological evaluation of medical devices
EN ISO 10993-5:2009; EN ISO 10993-10:2013 - In vitro cytotoxicity assays. Skin irritation and sensitization tests.
EN60601-1:2006+A12:2014 - Electrical medical equipment – General requirements for basic safety and essential performance.
EN60601-1-2:2015 - Electromagnetic compatibility (EMC) – Requirements and tests.
EN1865-2+A1:2016; EN1789 - Equipment for transporting patients in ambulances.

GAIA

ELECTRIC STRETCHER AND STRETCHER SUPPORT

GAIA ELECTRIC STRETCHER

About

The Gaia electric stretcher makes loading and unloading a patient one of the easiest tasks.

Its structure is made of high-strength aluminum alloy and the carts' attachment points are reinforced with steel or stainless steel. Likewise, all aluminum profiles were designed taking into account their mechanical resistance and final appearance.

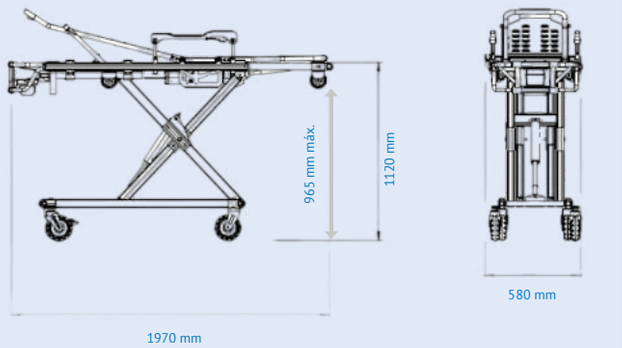
- Battery-powered hydraulic lifting system;
- Made from high-strength, hardened and coated aluminum alloy;
- The length of the stretcher can be adjusted to fit in a narrow place, such as an elevator, up to 1600MM;
- Waterproof mattress;
- Three-point belt kit;
- Equipped with an extendable IV pole;
- Rechargeable 20V lithium battery;
- Manual pressure relief function that can move the stretcher up and down when battery power is not enough (emergency manual system);
- Battery charge level indicator;
- Side arms.

Optional:
- Plastic side rail;
- Head extension.

Accessories:
- Pediatric belt;
- LBS.

Technical Specifications

Weight: 75 kg
Maximum Load Capacity: 300 kg
Wheel Diameter: 150 mm
Adjustable Backrest: 0-75º
Raised Position (LxWxH): 1970 x 580 x 1120 mm
Low Position (LxWxH): 1970 x 580 x 360 mm
Width: 580 mm
Input Voltage: 20V ±10%
Hydraulic Oil: Mobil DTE 24 Ultra ISO VG 32
Power Unit Operating Temperature: -34Cº to 55Cº
Input Power Time: ≤ 2 hours
1200 times without charging
100 times with charging
Foot Cover Angle: 15º
Warranty: 2 years



ACCESSORIES

Instruments tray

1.1

LBS

1.2

Ergonomic mattress

1.3

ACCESSORIES

Fastening belts

1.4

1.º – Tie the safety tapes to the internal bars.

2.º – Pass the safety tapes between the mattress grooves.

3.º – Fasten your seat belt.

ACCESSORIES

Pillow

1.5

1.º - Pass the strap through the mattress slots.

2.º - Join the two sides of the velcro.

PANEL OF FIGURES

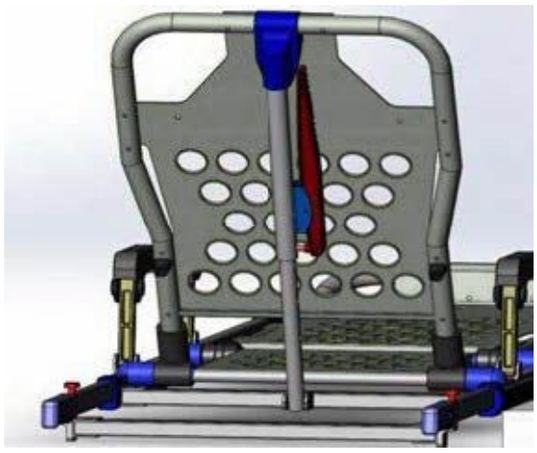


Figure 1

Figure 3

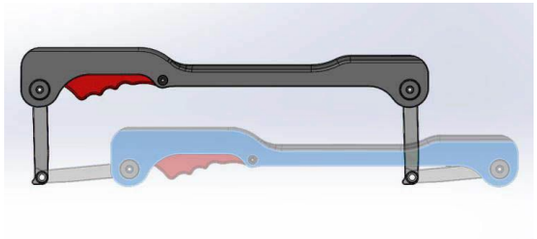


Figure 2

Figure 5

OPERATING MODE/USE

*** See the panel of figures on pages 11 for more details.**

1.1

Backrest angle adjustment

Hold the red handle under the head of the stretcher and lift it; To return to the starting position, hold the red handle and pull the backrest back. This movement is carried out using a mechanical telescopic tube (Figure 1).

Leg angle adjustment

1.2

Raise the leg support to the highest position, where it locks automatically; To return to the original position, lift the clasps on both sides to unlock the leg support and place it back.

1.3

Safe transport

Protective guards on both sides of the stretcher frame can be raised or folded as needed. To raise, simply pull the protective guard upwards to the highest position, where it locks automatically; to fold, press the red button (Figure 2).

Stretcher height adjustment

1.4

Adjusted by the control on the back of the stretcher (Figure 3)
"+" increases height
"-" decreases height

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

The electric lifting system cannot be operated continuously; you must wait a minute to use it again after completing a lifting circle.

When the battery is low, in an emergency, the manual lift handle on the side of the stretcher can be used to lift it (Figure 4 on page 15).

OPERATING MODE/USE

*** See the panel of figures on pages 11 for more details.**

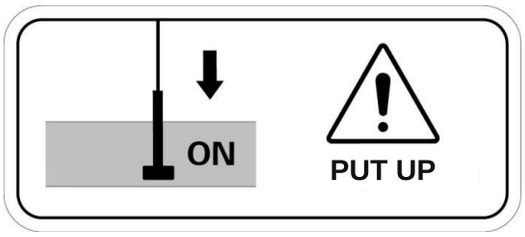


Figure 4

1.5

To lift manually

Two operators are required for this operation. Hold the manual decompression handle and lift the stretcher at both ends (one operator on each side). Loosen the handle in place and wait for the stretcher to become completely stable. Release the handle.

1.6

To download manually

Two operators are required for this operation. Operators lift the stretcher and hold the manual decompression handle. The stretcher frame is lowered under the weight of the stretcher. Release the handle when it is in the lowest position, wait until the stretcher is completely stable and then release the handle.

1.7

Battery installation

Insert the battery into the socket in the direction of the arrow indicated in Figure 5, from left to right, at the bottom of the plastic case, which 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 on the right side.

Make sure the battery is charged before using the stretcher. If the battery level is low, the battery must be charged. 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 come on.

GAIA STRETCHER SUPPORT

About

The Gaia stretcher support makes loading and unloading a patient one of the easiest tasks.

Its structure is made of high-strength aluminum alloy and the carts' attachment points are reinforced with steel or stainless steel. Likewise, all aluminum profiles were designed taking into account their mechanical resistance and final appearance.

Technical Specifications

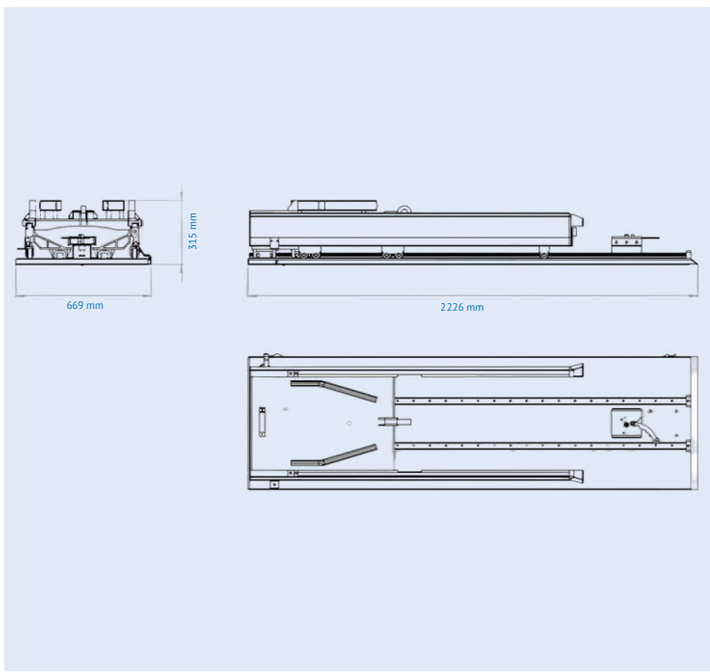
Weight: 135kg

Maximum Load Capacity: 375kg

Dimensions (LxWxH): 2226 x 669 x 315 mm

Power Supply Voltage:
220V AC ±10% 50Hz (AC Charging)
12V DC ±10% (Vehicle DC)

Warranty: 2 years



PANEL OF FIGURES

Figure 6

Figure 7

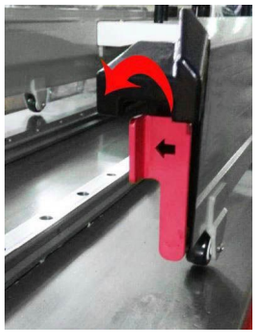


Figure 8

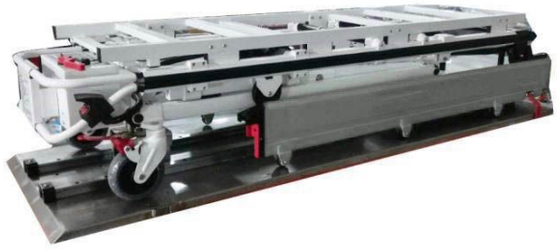


Figure 9

Figure 10

PANEL OF FIGURES

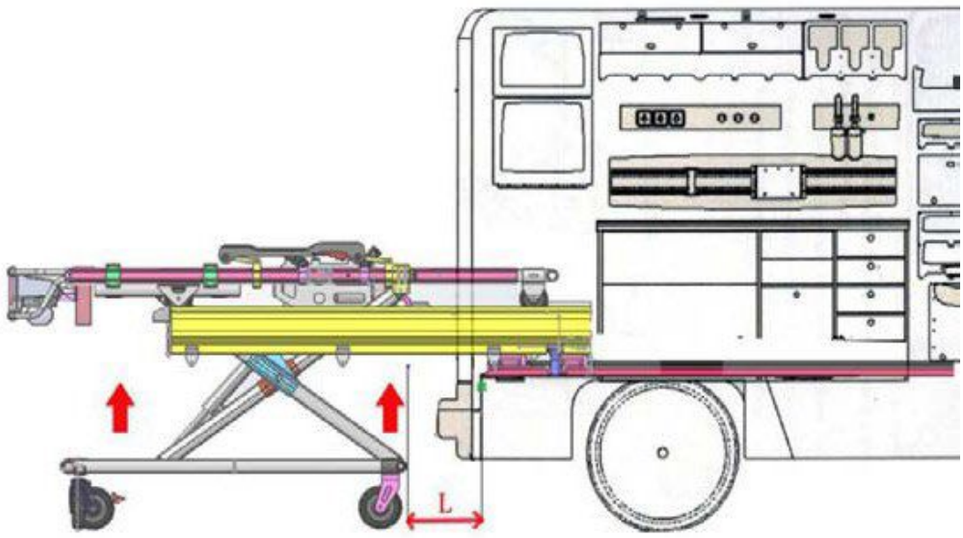


Figure 11

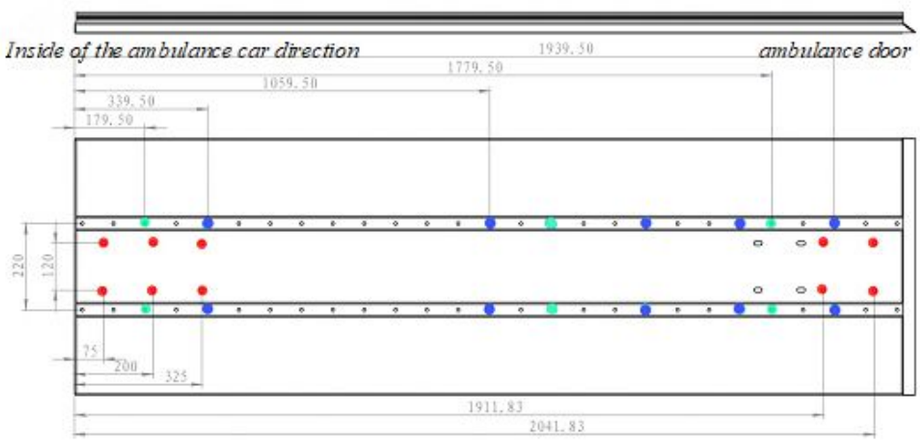


Figure 12

PANEL OF FIGURES

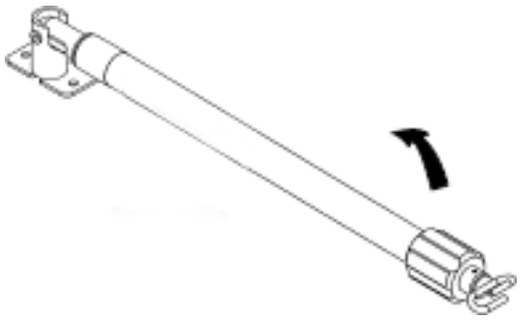


Figure 13

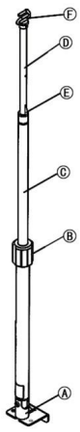


Figure 14

Figure 15

Figure 16

OPERATING MODE/USE

*** See the panel of figures on pages 15, 16 and 17 for more details.**

Loading the stretcher onto the platform

1.1

Push the stretcher onto the rails (Figure 6), place the four small wheels on the stretcher rail and then retract the stretcher legs (press the "-" button). Once in the lowest position (Figure 7), push the rotating handle to the left to unlock the entire rail (as shown in Figure 8). Push the stretcher and rail as a whole onto the platform until they are locked in position (Figure 9).

Unloading the stretcher onto the platform

1.2

First, open the stretcher lock and then pull the stretcher out, together with the ambulance's outer platform, until it is automatically locked.

When pushing and pulling the stretcher onto the platform, it is necessary to ensure that the electric stretcher is fully retracted into its shortest position and that it is locked onto the platform. If the stretcher is pushed and pulled on the platform while it is unlocked, there is a risk of it falling out of the rails/platform.

OPERATING MODE/USE

*** See the panel of figures on pages 15, 16 and 17 for more details.**

1.3

Platform installation

The position corresponding to the green and blue holes on the platform (Figure 12) is fixed with M8 screws. Note that the screw head cannot extend beyond the surface of the platform (to prevent the slide from moving).
The position corresponding to the red hole on the plate (Figure 12) is fixed with M8 screws.
When installing the platform at the rear entrance of the ambulance, make sure that the door can be closed and that the electric stretcher can be loaded into the ambulance (if the ambulance has a pedal blocking the car, you will need to remove the pedal), as shown in Figure 11.
Simulate the position of the platform in the ambulance before drilling. To ensure that the ambulance doors are barrier-free, use a marker to mark the position of the drilling on the floor of the ambulance.

Check beforehand that the floor of the ambulance vehicle is flat.

Always check the position of the car's fuel tank and other car parts before drilling holes, to avoid accidents.

When fixing the platform, the position of the blue holes (indicated by the arrow on the platform) must be securely fixed with screws. If this is not possible, fixing must be carried out in the nearest hole (Figure 12). The green and red holes are fixed according to the condition of the body.

OPERATING MODE/USE

*** See the panel of figures on pages 15, 16 and 17 for more details.**

1.4

Stretcher surface length adjustment

Decrease the length by first adjusting the backrest angle to the maximum position and then pulling the red telescopic adjustment lever (see Figure 15) to decrease the length.
Schematic diagram of the global contraction (shown in Figure 16).

1.5

IV support

1. The stretcher is equipped with an IV pole. If you need to use it vertically, place it in position A.
2. When adjusting the height of the IV pole, turn the locking knob B counterclockwise, extend the rod C and, until a certain height is reached, turn the locking knob B clockwise.
3. If a higher position is required, extend rod D to the longer position until locking part E is secured.
4. The serum bag can be hung on the hook labeled with the letter F. (Figure 13 and Figure 14)
5. It can be folded if not in use and the operation steps are reversed by following steps No. 1-4 above.

The loading weight is 5 kg.

MAINTENANCE

- The equipment requires regular maintenance to keep it working properly;
- You should follow a regular maintenance plan to prevent breakdowns;
- Keep maintenance records for your equipment;
- Use original spare parts recommended by the manufacturer;
- Read the manufacturer's safety data for each product.

The following table shows the minimum recommended maintenance intervals for your equipment.

Disinfection	Cleaning	Inspection	Lubrication
After each use	After each use When necessary	3 months	3 months

LUBRIFICATION

- Clean and disinfect equipment before lubricating;
- Clean the slide guides using a soft cloth to remove lubricant and residue (before lubricating);
- Lubricate the mechanical elements with high viscosity lubricant;
- Lubricate without applying excessive amounts.

CHECKLIST

- Check that all components are in the equipment;
- Check for any excessive or abnormal wear;
- Check that all screws, nuts, bolts, rivets and springs are in the equipment;
- Check that all moving and rotating parts are operating smoothly;
- Check that the stretcher moves smoothly;
- Check the wheels for abnormal wear;
- Check that the extendable handles work correctly;
- Check that the equipment has the belts installed correctly;
- Check that the belts are in good condition, without cuts or scratches;
- Check that the belt fittings work correctly;
- Check whether the equipment is being used in an Auto Ribeiro fastener;
- Check whether the equipment has abnormal play in the area where it fits into the ambulance fastener;
- Check that the equipment has all the necessary accessories.

Do not use water jets.
Do not use detergents/disinfectants containing sodium hypochlorite for cleaning.

DISINFECTION/CLEANING

1. Disinfection/Cleaning of belts
- Remove the equipment belts;
- Clean and disinfect the belts with a compatible detergent/disinfectant according to the concentration indications suggested by the manufacturer;
- Clean with a small amount of warm water, dry as much as possible and reapply to the equipment as indicated in the instruction manual.

2. Disinfection/Cleaning of the mattress
- Remove the mattress from the equipment;
- Clean and disinfect the mattress with a compatible detergent/disinfectant and according to the concentration indications suggested by the manufacturer;
- Clean with a small amount of warm water, dry as much as possible and reapply to the equipment.

3. Disinfection/Cleaning of equipment (Each use)
- Use detergent/disinfectant compatible with aluminum, stainless steel and rubber;
- To clean, carefully check the concentration suggested by the manufacturer on the product, to avoid damaging the equipment (note: first test the product in a non-visible area and check if it causes damage);
- Clean with a small amount of warm water, dry as much as possible and lubricate the guides, bars and sliding parts;
- If operating in an aggressive environment (e.g. saline environment), daily cleaning/lubrication of the equipment is recommended to protect exposed parts;
- The manufacturer is not responsible for any damage caused by the use of a cleaning product that may damage the surface material;
- Do not use any type of solvent or diluent to clean the equipment.

4. Inspection
- A regular inspection plan must be followed to avoid equipment failures, so as not to put patient and operator safety at risk;
- It is necessary to check the parts used for immobilization purposes;
- Checking the tightness of the connection elements. Make adjustments if necessary.

5. Lubrication
- Clean and disinfect equipment before lubricating;
- Clean the slide guides using a soft cloth to remove lubricant and residue (before lubricating);
- Lubricate the mechanical elements with high viscosity lubricant;
- Lubricate without applying excessive amounts.

Do not use water jets.
Do not use detergents/disinfectants containing sodium hypochlorite for cleaning.

WARNINGS OR PRECAUTIONS TO BE TAKEN FOR THE SAFE DISPOSAL OF THE DEVICE

This device contains materials that must be disposed of in accordance with applicable local environmental regulations. Incorrect disposal may pose risks to public health and the environment.

Specific instructions:

1. **Separation of components**
   - **Before disposal, separate the main materials:**
     - Metal frame (aluminum);
     - Rubber and plastic components;
     - Canvas.

   - **Recycling and reuse**
     - Whenever possible, send metal components (aluminum) to authorized recycling centers;
     - Plastic and rubber components may have specific solutions for energy recovery or recycling.

Do not delete:

Do not dispose of this device in household or unsorted waste. The end user is responsible for ensuring safe disposal through authorized operators.

Device disposal:

This device consists of a metal frame (aluminum), rubber components, plastic, and canvas.
At the end of its useful life, disposal must be carried out by separating the components by type of material and sending them to duly licensed waste management operators.
The metal frame must be recycled as aluminum scrap.
The canvas should be treated as non-hazardous waste, but should be sent for disposal in accordance with guidelines for hospital or contaminated waste.
Do not dispose of with household waste. Improper disposal may endanger public health and the environment.
For more information, consult the applicable legislation in force or contact the manufacturer.

TRAINING REGISTRATION

DATE	TRAINING COMPLETED	NAME

MAINTENANCE REGISTRATION

DATE	MAINTENANCE PERFORMED	NAME

MAINTENANCE REGISTRATION

DATE	MAINTENANCE PERFORMED	NAME

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