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1. User Information

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ECHO has taken reasonable care in compiling this document, however ECHO accepts no liability whatsoever for any error or omission in the information contained herein and gives no other warranty or undertaking as to its accuracy.
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ECHO and its affiliates are not liable for damages or losses related to such security breaches, any unauthorized access, interference, intrusion, leakage and/or theft of data or information.

1.1. FCC Declarations

This equipment has been tested and found to comply with the limits/or a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

1.2. Image Description

All images in this document show the mower configuration for the charging station unless otherwise noted.

1.3. California Proposition 65

⚠️ WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov
2. Safety Symbols

Throughout this manual and on the product itself, you will find safety alerts and helpful, informational messages preceded by symbols or key words. The following is an explanation of those symbols and key words and what they mean to you.

**Circle and Slash Symbol:** This symbol means the specific action shown is prohibited. Ignoring this symbol can result in damage to property and serious or fatal injury.

![Circle and Slash Symbol]

**DANGER**
The safety alert symbol accompanied by the word “DANGER” calls attention to an act or condition which WILL lead to serious personal injury or death if not avoided.

**WARNING**
The safety alert symbol accompanied by the word “WARNING” calls attention to an act or condition which CAN lead to serious personal injury or death if not avoided.

**CAUTION**
The safety alert symbol accompanied by the word “CAUTION” calls attention to an act or condition which may lead to minor or moderate personal injury if not avoided.

**NOTICE**
The enclosed message provides information necessary for the protection of the unit.
3. Safety Instructions

**IMPORTANT:** It is recommended to have the installation performed by a licensed electrician.

1) **SAVE THESE INSTRUCTIONS** – This manual contains important safety and operating instructions for charging station models CGSL01AF1, CGSL11AF1, and CGSL21AF1.

2) Before using, read all instructions and cautionary markings on the charging station and on the robot.

3) **CAUTION** – To reduce risk of injury, only charge the robot with this charging station.

---

**HAZARDOUS VOLTAGE**

Risk of fire and burn.

- To reduce the risk of fire or burn, use only on circuits provided with 15 A branch-circuit protection in accordance with the National Electrical Code, ANSI/NFPA 70.
- De-energize AC power before performing work to, or near, the charging station.
- Follow all lock-out and tag-out procedures.
- Perform installation or maintenance in dry conditions
- Do not allow any conductive materials to touch the guarded charger output contacts.
- Do not use a charging station which has been physically damaged.
4. Charging Station Model Descriptions, Specifications, and Dimensions

4.1. Model Descriptions

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGSL01AF1</td>
<td>Charger with Station Loop peripheral wire only.</td>
</tr>
<tr>
<td>CGSL11AF1</td>
<td>Charger with Station Loop peripheral wire and one Field Zone peripheral wire.</td>
</tr>
<tr>
<td>CGSL21AF1</td>
<td>Charger with Station Loop peripheral wire and two Field Zone peripheral wires.</td>
</tr>
</tbody>
</table>

4.2. Specifications (all models)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>Operating Temperature</td>
<td>0 to 50° C</td>
</tr>
<tr>
<td>Input</td>
<td>120 VAC - 60 Hz (360 W maximum)</td>
</tr>
<tr>
<td>Charge Outputs</td>
<td>32 VDC (320 W maximum)</td>
</tr>
<tr>
<td>Output Circuits</td>
<td>Class 2</td>
</tr>
</tbody>
</table>
4.3. Dimensions

Mower Configuration Shown (A-top view, B-side view):

- **A**
  - Dimension: 39.1 in. (993 mm)

- **B**
  - Dimension: 25.4 in. (646 mm)
  - Dimension: 14.0 in. (356 mm)
Range Picker Configuration Shown (A-top view, B-side view):

- **A**: 39.1 in. (993 mm)
- **B**: 25.4 in. (646 mm)
- **B**: 14.0 in. (356 mm)
5. Charging Station Components

1 - Enclosure top
2 - Dust cover
3 - Charging arm
4 - Base
5 - Input panel – Caution label
6 - Serial number location
7 - T-27 Torx® driver
8 - Conduit connector
9 - Tie strap (13X)
Identify the location of AC power, Station Loop, Field Zone 1, and Field Zone 2 peripheral wires before installing the charging station. Install the charging station on flat ground where flooding or water accumulation will not occur. Do not bend, warp, or crack the base during installation.

### 6.1. Required Tools

<table>
<thead>
<tr>
<th>Tool</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 mm Socket Driver</td>
<td>Hammer</td>
</tr>
<tr>
<td>3 mm Flat-Blade Screwdriver</td>
<td>Slip-Joint Pliers</td>
</tr>
<tr>
<td>#1 Phillips Screwdriver</td>
<td>T-27 Torx® Driver</td>
</tr>
<tr>
<td>Adjustable Wrench</td>
<td>7/8 in. Drill Bit</td>
</tr>
<tr>
<td>Wire Strippers</td>
<td>Fasteners and additional cord grip for Timer Box Accessory Kit (not included)</td>
</tr>
<tr>
<td>Tape Measure</td>
<td></td>
</tr>
</tbody>
</table>

### 6.2. AC Power Supply Wiring

Use 14 AWG electrical wire and ½ in. liquid-tight electrical conduit for AC power into the charging station. **NOTE:** Wire and conduit are not included with the charging station.

![Diagram of AC Power Supply Wiring]

1 - Line (black)  
2 - Ground (green)  
3 - Neutral (white)  
4 - Liquid-tight electrical conduit
6.3. Installation Offsets

Install the charging station on flat ground whenever possible. If the entire field is on a slope, install the charging station on a flat portion at the top. The robot has no brake when it is in charge mode. The robot can slide away from the charging contacts if the longitudinal slope (by which the robot enters the charging station) is greater than zero degrees (0°).
7. Charging Station Installation Procedure

**IMPORTANT:** Do not bend, warp, or crack the base during installation. Follow all safety instructions. See *Safety Instructions*.

This procedure is a basic overview of the charging station installation. Each installation varies by application. Consult your dealer for specific questions regarding installation.

### 7.1. Station Loop, Field Zone 1, and Field Zone 2 Charging Stations

1) Clear debris, cut grass, or vegetation from the installation location.
2) Remove the charging station from its packaging. Lift the charging station from the base, do not lift it from the charging arm.
3) Remove the M5 nuts (8X) from the base of the enclosure top and save for reassembly.
4) Range Picker configuration only: Carefully lift and rotate the enclosure top 180°. Align the holes in the enclosure top with the holes in the base. Place the enclosure top onto the base (ensure no wires are pulled or pinched).
5) Move the charging station to the final installation location. Place the front of the enclosure top 26.4 in. (670 mm) from the Station Loop, Field Zone 1, and Field Zone 2 peripheral wires.

6) Route the Station Loop, Field Zone 1, and Field Zone 2 peripheral wires under the base and up through a cord grip. Allow a minimum length of 15.7 in. (400 mm) of each peripheral wire inside the enclosure top. Hand-tighten the cord grips. Provide excess wire under the base for future repositioning.
7) Remove 0.3 in. (8 mm) of insulation from the end of each peripheral wire.

8) Loosen the surge protector(s) terminal screws, insert the stripped ends of the peripheral wires into the surge protector(s) at the locations shown, securely tighten the terminal screws.

9) Use an adjustable wrench or slip-joint pliers to securely tighten the cord grips. This will secure the peripheral wires to the base, and create a water-tight seal.

10) Pull the 14 AWG AC wires through the ½ in. liquid-tight conduit. Assemble conduit connector, fitting, and seal, to the liquid-tight conduit. Place the conduit connector into the input panel. Place
the nut on the inside of the panel and tighten it onto the fitting. Allow 35.4 in. (400 mm) of wire on the inside of the enclosure top.

11) Remove 0.4 in. (11 mm) of insulation from the end of each wire.
12) Insert a flat-blade screwdriver into the small terminal block opening(s) to open the spring contact. Install the 14 AWG AC wires (neutral-white, line-black, ground-green) into their corresponding large terminal block openings. Install one wire per terminal block opening. The stripped ends of the
14

wire (or stray strands of wire) must remain on the inside of the terminal block. Remove the screw-driver. Gently pull each wire to verify a secure connection.

13) Align the holes in the enclosure top with the holes in base. Place the enclosure top onto the base. Ensure no wires are pulled or pinched. Assemble and securely tighten the M5 nuts (8X).

1 - Small terminal block openings
2 - 14 AWG AC wires
3 - Large terminal block openings
14) Mower Configuration Only: Remove underground hazards below the charging station. Use a hammer to install the four landscaping spikes to secure the base to the ground.

15) Range Picker Configuration Only: Use the appropriate size and type of anchor to secure the charging station to the foundation of the ball collection system.
8. Alignment to Robot

The charging arm will move to allow for correct alignment to the robot.

- A - Mower Configuration
- B - Range Picker Configuration

8.1. Alignment Instructions

1) Remove the landscaping spikes or anchors from the base of the charging station.
2) Push the robot to the charging station along the Station Loop peripheral wire.
3) Place the robot on the charging station, do not allow charging arm to contact the robot. Visually inspect the alignment of the charging arm to the charging panel on the robot.

4) Move the charging arm assembly up or down as required. Use a T-27 Torx® Driver to loosen the mounting screws (4X) on the charging arm mounting plate.

1 - Charging arm
2 - Charging panel
1 - Mounting screws
2 - Charging arm mounting plate
5) Position the charging arm to align with the charging panel on the robot

6) Tighten the mounting screws (4X) on the charging arm mounting plate.

7) Place the charging station so the front of the enclosure top is 28.3 in. (720 mm) from the Station Loop, Field Zone 1, and Field Zone 2 peripheral wires.
8) Push the robot 30 to 50 ft. (9 to 15 m) away from the charging station and point it towards the peripheral wire.

9) Program the robot to “charge and stay”. This instructs the robot to move towards the Station Loop, Field Zone 1, and Field Zone 2 peripheral wires and proceed to the charging station.

10) Observe the robot as it approaches the charging station. Position the charging station so the charging arm is at a 30° angle when the robot is docked. Adjust the charging station as required.

11) Secure the charging station base with landscaping spikes or anchors.
9. Operation

9.1. Power Switch

The power switch is located under dust cover.

Move the power switch to the ON position to energize the DC output of the charging station and the peripheral wires. The TEST LED will not illuminate.

Move the power switch to the OFF position to de-energize the DC output of the charging station and the peripheral wires.

Move the power switch to the TEST position to energize the DC output of the charging station and the peripheral wire(s). The TEST LED will illuminate.

9.2. LED Indicators

Four LED indicators are located on the input panel (rear side of charger).

**WARNING:** If an LED is not illuminated, AC power may still be present.

TEST LED - Illuminates green when AC power is present and the power switch is in the TEST position.

SL (Station Loop) LED - Blinks green when the station loop peripheral wire is correctly connected, blinks red when incorrectly connected.

Z1 (Field Zone 1) LED - Blinks green when Field Zone 1 peripheral wire is correctly connected, blinks red when incorrectly connected.
Z2 (Field Zone 2) LED - Blinks green when Field Zone 2 peripheral wire is correctly connected, blinks red when incorrectly connected.

1 - Input panel
2 - TEST LED
3 - SL (Station Loop) LED
4 - Z1 (Field Zone 1) LED
5 - Z2 (Field Zone 2) LED
10. Maintenance Procedures

Follow all safety instructions. See *Safety Instructions*.

10.1. General Inspection and Cleaning

During periods of wet weather, perform inspection and cleaning once per day.

1) Move the power switch to the OFF position.
2) De-energize AC power at the mains (charging station only).
3) Remove robot from charging station (if required).
4) Visually inspect the unit, replace damaged components.
5) Check all electrical connectors, reconnect if necessary.
6) Use a plastic scraper, nylon brush, compressed air, or a damp cloth to clean dirt, grass, sticks, or obstructions.

**NOTE:** Do not use a high-pressure washer or running water for cleaning. *Never use solvents.*

10.2. Cold Weather Storage (as installed)

1) Move the power switch to the OFF position.
2) De-energize AC power at the mains.
3) Cover the charging station with a non-conductive, waterproof barrier.

10.3. Cold Weather Storage or Moving (removed from installation)

1) Move the power switch to the OFF position.
2) De-energize AC power at the mains.
3) Remove the M5 nuts (8X) from the base of the enclosure top. Save the nuts for reassembly.
4) Remove the AC wires (neutral-white, line-black, ground-green) from the terminal block.
5) Loosen the conduit connector lock nut (located on inside of input panel). Pull conduit, connector, and AC wires out of the input panel.

6) Assemble wire nuts to the end of each wire. Safely secure the wires and the liquid-tight conduit.

7) Remove the landscaping spikes or anchors at the charger enclosure base.

8) Label the Station Loop, Field Zone 1, and Field Zone 2 peripheral wires, then, remove them from the surge protectors.

9) Loosen the gray cord grips located on the base of the charging station.

10) Remove the Station Loop, Field Zone 1, and Field Zone 2 peripheral wires from the charging station.
11) Assemble a wire nut to the end of each peripheral wire. Safely secure the wires.
11. BDR100 Timer Accessory Kit

IMPORTANT: Read the instruction sheet provided with the timer prior to installing this kit. Follow all safety instructions. See Safety Instructions.

11.1. Components

1 - Cover screw
2 - Cover
3 - Cover gasket
8 - Backing plate screw
9 - Timer box
10 - Cable grommet
11 - Timer box cover
12 - Timer box cover gasket
13 - Backing plate
14 - Cable grommet
11.2. Required Tools

See Required Tools.

11.3. Installation

1) Remove the cover from the timer box.
2) Install the DIN rail to the backing plate. Install the backing plate inside the timer box.
3) Install the cord grip into the timer box using the provided cord grip nut. Route the timer cable through the cord grip. Hand-tighten the cord grip.

4) Use a #1 Phillips screwdriver, connect the wires of the timer cable to the timer; red wire to terminal A1, black wire to terminal A2, white wire to terminal B1. Turn the dial at the bottom of the timer until it reads DE.
5) Assemble the timer to the DIN rail (cut-away view of timer box shown).

6) Set the timer as needed (see instruction sheet included with timer).

7) Use a water-tight cord grip (not included) to secure wiring from the remaining ½ in. NPT opening in the timer box to any external equipment (eg. golf ball transfer system).

8) Use an adjustable wrench or slip-joint pliers to securely tighten the cord grip. This will secure the cable and create a water-tight seal.

9) Place the mounting fasteners (not included) in the timer box mounting holes. Mount the timer box to the final location.

1 - Timer
2 - DIN rail

1 - Timer box mounting holes
10) Place the cover (with gasket) on the timer box. Assemble the cover screws (4X).

11.4. Timer Cable Assembly to Charging Station

1) Move the charging station power switch to the OFF position.
2) De-energize AC power at the mains.
3) Remove the M5 nuts (8X) from the base of the enclosure top and save for reassembly.
4) Remove the enclosure top.
5) Specific applications may require the mounting of an additional cord grip. Drill one 7/8 in. (22 mm) hole for the cord grip in the base at the location shown. Assemble the cord grip to the base using the supplied cord grip nut.
6) Route the timer cable under the base and through the cord grip as shown. Allow a minimum of 16 in. (400 mm) of cable inside the enclosure top. Hand-tighten the cord grip.

1 - Hole location (7/8 in. [22 mm])
2 - Base

1 - Timer cable
2 - Cord grip
7) Assemble the 2-pin connector from the timer cable to the JREL connector on the peripheral wire board. Use the quick-splice connector to make a tap connection from the red DC SUPPLY+ wire to the red 22 AWG timer cable wire.

8) T-Tap spade connector instruction: Place the red DC SUPPLY+ wire in the connector. Close the connector over the wire. Secure the connector to the wire with a pair of standard pliers.

9) Use an adjustable wrench or slip-joint pliers to securely tighten the cord grip. This will secure the cable and create a water-tight seal.

10) Align the holes in the enclosure top with the holes in base. Place the enclosure top onto the base (ensure no wires are pinched or pulled).

11) Assemble and securely tighten the M5 nuts (8X).
### PRODUCT REGISTRATION CARD / TARJETA DE REGISTRO / CARTE D'ENREGISTREMENT DU PRODUIT

**Please Print / Por Favor Enscriba Con Letra De Molde / En Lettre Carre S.V.P**

<table>
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<tr>
<th>Purchaser’s Name / Nombre del Comprador / Nom de l’acheteur</th>
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<tbody>
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<tr>
<td>Date of Purchase / Fecha de la Compra / Date de l'achat</td>
</tr>
<tr>
<td>Where Purchased / Nombre del Almacen donde fue Comprado / Lieu d'achat</td>
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Registering your purchase enables us to contact you in the unlikely event of a service update or product recall and verifies your ownership in the event of loss.

El registrar su compra nos permite estar en contacto con usted en caso de cualquier evento como el aviso de tiempo de servicio o la revocación del producto y verifique que usted es el propietario en caso de robo o perdida.

L'enregistrement de votre achat nous permettra de vous contacter dans le cas improbable de modifications des instructions d'entretien ou de rappel du produit et vérifier que vous êtes le propriétaire en cas de vol ou de perte.

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La información confidencial provista no será compartida ni vendida.

Les informations confidentielles fournies ne seront pas partagées ou vendues.

Primary use of tool: ☐ Professional ☐ Sports Turf ☐ Golf Course

Uso primario de la herramienta: ☐ Profesionel ☐ Césped deportivo ☐ Campo de golf

Usage principal: ☐ Professionnel ☐ Gazon sportif ☐ Terrain de golf

Did you visit the ECHO Robotics website before purchasing your product?

☐ Yes ☐ No

¿Visitó el sitio web de ECHO Robotics antes de comprar su producto?

☐ Sí ☐ No

Avez-vous visité le site Web d'ECHO Robotics avant d'acheter votre produit?

☐ Oui ☐ Non

Email to / Email para / Envoyer à

admin@echorobotics.com

or mail to / o correo a / ou par courrier à

ECHO Incorporated
Attn: ECHO Robotics Department
400 Oakwood Rd.
Lake Zurich, IL 60047

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P/N 99922205374
ECHO INCORPORATED LIMITED WARRANTY AND CONDITION STATEMENT FOR ECHO ROBOTICS PRODUCTS SOLD IN USA AND CANADA BEGINNING 10/01/2018

ECHO INCORPORATED RESPONSIBILITY
ECHO Incorporated, for itself and all subsidiary, shareholder or related entities (collectively, “ECHO”), warrants and conditions (this "Limited Warranty") to only the original retail purchaser that this ECHO ROBOTICS Product is free from defects in material and workmanship at the time of sale. Under normal use and maintenance from date of purchase, ECHO agrees to repair any defective ECHO ROBOTICS Product free of charge at any authorized ECHO ROBOTICS servicing dealer within the below Warranty Time Periods and subject to the below terms, conditions, limitations and exclusions. THIS LIMITED WARRANTY IS ONLY APPLICABLE TO ECHO ROBOTICS PRODUCTS SOLD BY AUTHORIZED ECHO ROBOTICS DEALERS OR ECHO. IT IS EXTENDED TO THE ORIGINAL RETAIL PURCHASER ONLY AND IS NOT TRANSFERABLE TO ANY SUBSEQUENT PURCHASER OR USER, OR APPLICABLE TO USED ECHO ROBOTICS PRODUCTS. Any damage caused by improper installation or improper maintenance is not covered by this Limited Warranty. All defective parts replaced under this Limited Warranty become the property of ECHO. This Limited Warranty does not apply to ECHO ROBOTICS Products where malfunction occurs as a result of ordinary wear and tear, depreciation or consumption through ordinary use. This Limited Warranty may be updated from time to time at the sole discretion of ECHO. For a list of authorized ECHO ROBOTICS servicing dealers refer to www.ECHORobotics.com, e-mail us at admin@echorobotics.com or call us at 1-800-432-ECHO.

RESPONSIBILITY OF ORIGINAL PURCHASER
To expedite your warranty claim please register your ECHO ROBOTICS Product by filling out the warranty registration card supplied with your ECHO ROBOTICS Product and sending it to ECHO via mail at 400 Oakwood Rd. Lake Zurich, IL 60047 or email at admin@echorobotics.com. Registering your ECHO ROBOTICS Product confirms your warranty coverage and provides a means to contact you should we find it necessary to do so. It is your responsibility as the original purchaser of the ECHO ROBOTICS Product to maintain the receipt of original purchase including date, model and serial number of the ECHO ROBOTICS Product, which receipt must be presented to the authorized ECHO ROBOTICS servicing dealer for any repair under this Limited Warranty. Proof of purchase of the ECHO ROBOTICS Product is the sole responsibility of the original purchaser. The original purchaser must demonstrate reasonable care and use of, and follow preventative maintenance, storage and battery usage recommendations for the ECHO ROBOTICS Product as prescribed in the Operator’s Manual. Should a malfunction, defect, failure, problem or difficulty in the operation of the ECHO ROBOTICS Product occur, you must deliver or ship your ECHO ROBOTICS Product to an authorized ECHO ROBOTICS servicing dealer for repairs under this Limited Warranty within the applicable Warranty Time Period, and arrange for pick-up or return of the ECHO ROBOTICS Product after the repairs have been made. Should you require assistance or have questions concerning this Limited Warranty, contact us at www.ECHORobotics.com or Email us at admin@echorobotics.com.

WARRANTY TIME PERIODS
ECHO ROBOTICS Mowers, Range Pickers, Charging Stations and batteries included as parts of ECHO ROBOTICS Products only will be covered by this Limited Warranty for two (2) Years from the earlier of the date of purchase or date of delivery. Individual component items of ECHO ROBOTICS Products ("IC Items") listed below will only be covered under this Limited Warranty for the Warranty Time Periods set forth below.

<table>
<thead>
<tr>
<th>IC Items</th>
<th>Warranty Time Period</th>
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<tr>
<td>Caster Wheels</td>
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</tr>
<tr>
<td>Rear Wheel Tires</td>
<td>1 year</td>
</tr>
<tr>
<td>Bearings</td>
<td>1 year</td>
</tr>
<tr>
<td>Bushings</td>
<td>1 year</td>
</tr>
<tr>
<td>LED Display</td>
<td>1 year</td>
</tr>
<tr>
<td>Cutting Blades</td>
<td>30 Days (Defects in material and workmanship only)</td>
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</tbody>
</table>

WARRANTY REPAIR PARTS AND ACCESSORIES
Parts and accessories provided by ECHO to replace defective parts or accessories under this Limited Warranty are warranted against defects in material and workmanship for the duration of the Warranty Time Period of the ECHO ROBOTICS Product.

PURCHASED PARTS AND ACCESSORIES
Purchased ECHO ROBOTICS parts and accessories are warranted against defects in material and workmanship for a period of ninety (90) days from the date of purchase. Reimbursement for ECHO ROBOTICS parts and accessories purchased for repairs under this Limited Warranty is for the parts or accessories only. Labor claimed to replace the subject parts and accessories is not covered by this Limited Warranty.

THIS LIMITED WARRANTY DOES NOT COVER DEFECTS, MALFUNCTIONS, FAILURES, PROBLEMS OR DIFFICULTIES IN OPERATION OF ECHO ROBOTICS PRODUCTS OR DAMAGE OR LOSS CAUSED BY OR RESULTING FROM:

- misuse, abuse, neglect, negligence, or accident;
- operation or maintenance in any way contrary to the instructions specified in the Operator’s Manual or Technical Manual;
- ordinary wear and tear, or the result of consumption through use (unless otherwise found to be defective), including, but not limited to, blades, bearings, LED displays, rear wheel tires or caster wheels;
• the use of replacement parts, accessories or attachments not approved by ECHO;
• weather, exposure to the elements, unreasonable storage practices of exterior components, including but not limited to, decals and plastics;
• exposure to unapproved or recycled chemicals and liquids;
• dirt, pressure or steam cleaning, water, corrosion, rust, varnish, abrasives ormoisture;
• modifications, tampering, alterations or improper servicing;
• failure to provide or perform required maintenance as prescribed in the Operation's Manual;
• improper use or set-up, connection, installation, pre-delivery or repair service other than by an authorized ECHO ROBOTICS servicing dealer;
• rodents, insect infestations, theft or violence;
• force majeure and acts of God, including natural disasters, fires, weather, floods, freezing, lightening, accidents, power surges and the like;
• continued use after malfunction, failure, defect, difficulty or problem in operation occurs;
• costs for removal or reinstallation of Products, such as for cranes, hoists, lifts, transport, travel and living expenses for workers of the original purchaser or authorized ECHO ROBOTICS servicing dealer or the standard labor or overtime charges thereof;
• loading Products beyond recommended capacity;
• improper voltage at charging stations;
• use of unauthorized batteries; and
• use of unauthorized application software, operating software, or algorithms.

Should any malfunction, defect, problem, failure or difficulty in operation occur, immediately cease use of the Product and contact an authorized ECHO ROBOTICS servicing dealer.

OTHER ECHO RIGHTS:
• ECHO may improve, modify or change the design of any ECHO ROBOTICS Products or any part or accessory without being responsible to modify previously sold ECHO ROBOTICS Products, or any parts or components;
• ECHO may itself or through a third party, audit and inspect your maintenance records, storage facility, and battery usage and the Product itself, prior to approving any claim; and
• This Limited Warranty shall be voided if data submitted for a claim contains false or misleading information.

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