

Service and Repair Manual

GoLift Ultra



Amico

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Introduction

INTENDED PURPOSE

A patient lift is a medical device intended to safely lift and transfer patients with limited mobility. It is designed to assist caregivers in moving a patient between various positions or surfaces with minimal physical effort.

The ceiling lift device helps reduce the risk of injury to both the caregiver and patient during a transfer, supports patient comfort and dignity, and may also be used in rehabilitation or mobility training.

It is intended for use in a clinical, institutional, and home care environments under the supervision of trained caregivers.

DESCRIPTION

The Amico GoLift Ultra is a fixed ceiling-mounted patient lift system designed to provide safe, efficient, and routine patient transfers across various healthcare environments. Compact in design, it is the smallest ceiling lift in its class and is engineered to be aesthetically pleasing for both caregivers and patients. To support infection control protocols, the GoLift Ultra, its carry bar, and its hand control are designed with smooth edges and rounded corners to reduce the accumulation of dust, dirt, and bacteria, allowing for easier cleaning and maintenance.

Despite its compact size, the GoLift Ultra is equipped with a set of durable all-metal gears and state-of-the-art battery technology, ensuring reliable operation and long-lasting performance. This system allows caregivers to safely and effortlessly lift and transfer patients weighing up to 700 lbs with a single unit. For bariatric applications, the GoLift Ultra 1000 combines two GoLift Ultra systems to accommodate patients weighing up to 1000 lbs.

The GoLift Ultra is further enhanced by Amico's revolutionary trolley design, which enables quick and secure installation or removal of the lift from the track while providing an instant mechanical and electrical connection. Amico's modular track system adds another layer of versatility, offering a high degree of flexibility and customization to optimize the layout of the workspace according to the specific needs of the healthcare facility.

The GoLift Ultra is available in two weight capacities, which must not be exceeded:

- 450 lbs (204 kg)
- 700 lbs (318 kg)

Amico's retrofit trolley system allows the GoLift Ultra to be installed on a wide range of track profiles. The trolley can be customized to fit specific track configurations and is fully compatible with the Amico GoLift Pendant (PLP) system, ensuring seamless integration and reliable operation.



Introduction

SYMBOLS USED IN THIS MANUAL

Symbol	Reference	Title
	ISO 7000-0434A	Caution Risk of Danger
	MET	Certified by MET
	IEC 60417-5840	Type B Applied Part
	CE	Certification of Conformity
	ISO 7010-M002	Refer to Instruction Manual/Booklet
	Amico Mobility	Emergency Lowering
	Amico Mobility	Emergency Stop

 **WARNING:** This symbol is intended to alert the user of hazard or unsafe practices, which could result in serious bodily harm.

MARKINGS

The GoLift Ultra 450 and GoLift Ultra 700 are designed to comply with the following set of standards:

Standard(s):	CAN/CSA-C22.2 No. 60601-1:08 Medical Electrical Equipment - Part 1: General requirements for basic safety and essential performance. ISO10535:2021 Hoists for the transfer of disables persons - Requirements and Test Methods
Product:	Amico GoLift Ultra
Brand Name:	GoLift Ultra
Models:	450 lbs and 700 lbs



AJW Technology Consulting GmbH
Breite Str. 3, 40213 Düsseldorf,
Germany

Safety Instructions



IMPORTANT: Read the following instructions carefully. Failure to do so may result in serious injury.

- The Amico GoLift Ultra must be installed only by personnel authorized by Amico Mobility Solutions Corporation.
- Do not use this medical device prior to understanding the contents of this manual.
- Contents of this manual are subject to change without prior notice to the users. Keep for future reference.
- Never place the Amico GoLift Ultra, track/PLP and slings in the control of a person who has not been properly trained in the use and care of the device.
- The Amico GoLift Ultra and its associated track/PLP sling(s) are intended for patient transfers only. Do not use the GoLift Ultra for any other purposes.
- Amico Mobility Solutions Corporation's Warranty is void if any unauthorized personnel perform service on the Amico GoLift Ultra system.
- In facilities where multiple caregivers are responsible for using the GoLift Ultra and its associated tracks, accessories and slings, it is important that all caregivers be trained in the proper use of the equipment. A training program should be established by the facility to familiarize new caregivers with the GoLift Ultra.
- Do not expose the Amico GoLift Ultra directly to water. Warranty does not cover any misuse or abuse of the GoLift Ultra.
- The Amico GoLift Ultra should be inspected and maintained on a regular basis to keep it operating safely and correctly. Refer to the Inspection and Maintenance section of this manual.
- Any accessories used with the Amico GoLift Ultra, including the track/PLP and slings, should be checked to ensure they are in good working order. Check for signs of wear or fraying prior to use. Report any unusual wear or damage immediately.
- Amico Mobility Solutions Corporation will not be responsible for any damage caused by misuse, neglect or purposeful destruction of the lift and its associated components. Do not attempt to modify/alter the Amico GoLift Ultra.
- Do not, under any circumstance, exceed the maximum allowable load of this lift. Refer to the Technical Specifications section of this manual and/or the labels on the lifts.
- The installation of the GoLift Ultra, track and slings are certified to a maximum load. Do not exceed the maximum rated load of any of the components.
- There is a risk of explosion if the lift is used in the presence of flammable anesthetics.
- The Amico GoLift Ultra should be decommissioned/disposed of after the recommended service life in accordance with local law regulations.



NOTE: There are no known contra-indications associated with the use of the Amico GoLift Ultra and its accessories, provided they are used per our recommendations and guidelines.

For any independent uses of the Amico GoLift Ultra, it is extremely important that the patient can receive assistance, during the transfer in the event of an equipment failure. This assistance can be provided in the form of; a nearby qualified caregiver, a phone or other communication devices.

Technical Specifications



Maximum Lifting Speed

No Load:	2.0 inches/second
GoLift Ultra450:	1.3 inch/second
GoLift Ultra700:	1.3 inch/second

Unit Weight

GoLift Ultra450:	14 lbs (6.3 kg)
GoLift Ultra700:	14 lbs (6.3 kg)

Safe Working Load (SWL)

GoLift Ultra450:	450 lbs (204 kg)
GoLift Ultra700:	700 lbs (318 kg)

Dimensions

GoLift Ultra450 / GoLift Ultra700:

- Length: 8.9" (226.06 mm)
- Width: 8.9" (226.06 mm)
- Height: 6.3" (160.02 mm)
- Strap Length: 84" (2133.6 mm)

Number of Lifts Per Charge (Duty: 10/90)

25% of Strap at Midrange:

- 90 with 200lbs (91kg)
- 40 with 450lbs (204kg)
- 50 with 700lbs (318kg)

Charging Time

2 - 4 hours

Lift Case

Flame Retardant ABS

Batteries

High Capacity, Nickel Metal Hydride (NiMH)

Standard: 2x 14.4V (3.3Ah)

With Over-Temperature and Over-Charge Protection

Power Supply

Input: 100 - 240 VAC

Output: 36 VDC, 1.0A, 40W

Hand Control with LCD Display (240x282 pixels)

Protection Class: IP67

Maximum Sound Level

<55 dB

Integrated Scale (If Equipped)

Accuracy Level: $\pm 0.1\%$ of the reading

Expected Service Life

10 years or 22,500 cycles

Safety Features

Emergency Stop & Lowering Device
Upper and Lower Limit Detection
Slack Tape Sensor
Free Fall Brake (Overspeed Governor)
Low Battery and Dead Battery Alarms
Soft Start and Soft Stop
Overload Protection
Emergency Manual Lowering

Diagnostic/Usage Information

Number of Lifts:

- Total Number of Lifts
- Number of Heavy Lifts

Charging Statistics:

- Total Number of Charge Cycles

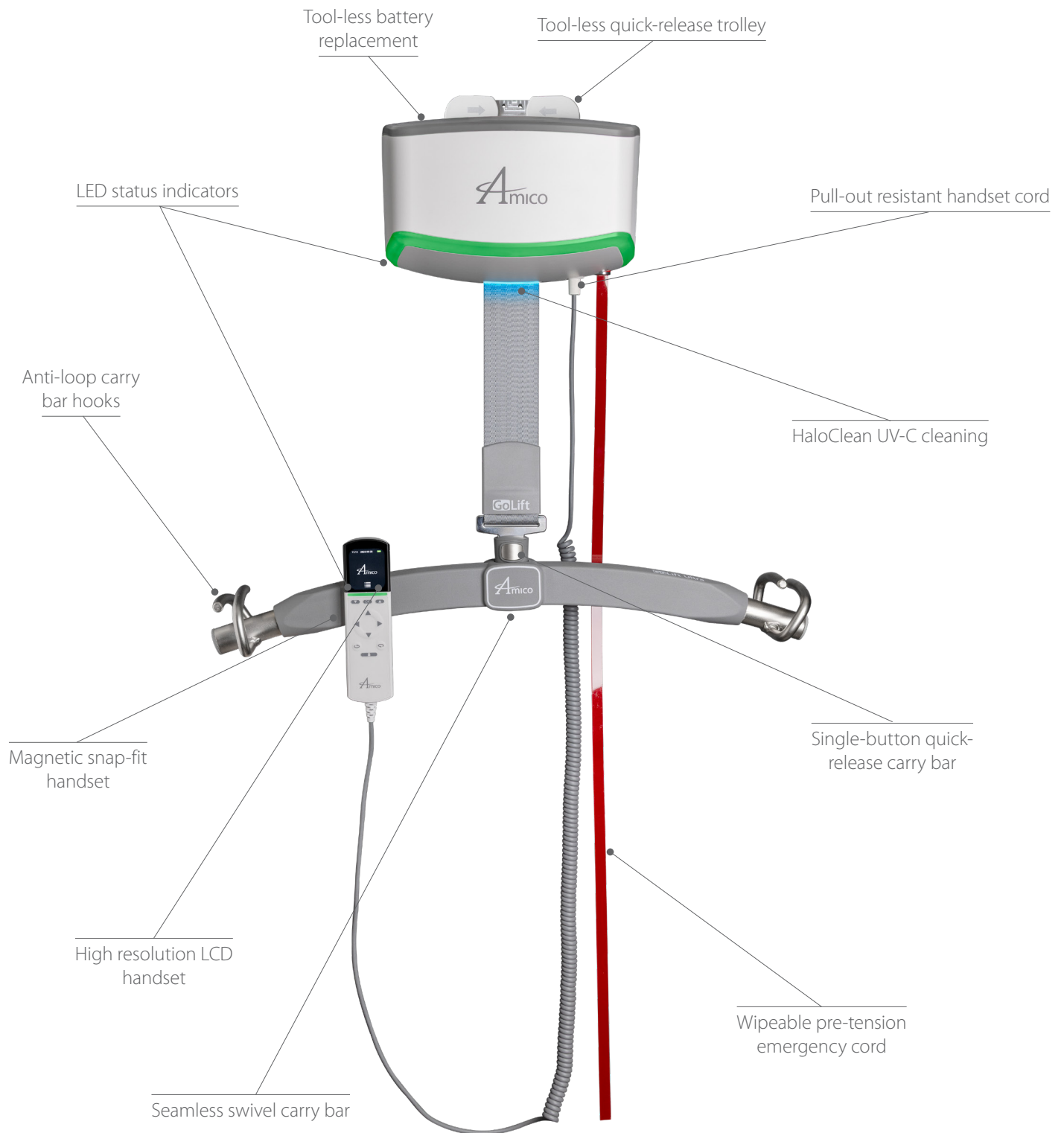
User Weight (If equipped)

Recent Faults

Approvals

Certified to:	CAN/CSA-C22.2 No 60601-1:08 UL 60601-1:08
Tested to:	ISO 10535-21, CE

Anatomy of the GoLift Ultra



Description of Functions

LED AND BUZZER FUNCTIONS

The GoLift Ultra is equipped with an LED bar on the hand control and a ring LED on the casing of the lift itself. In addition to the LED indicators, the hand control of the GoLift Ultra also displays the battery state at the top right-hand corner of the display.



Green



Amber



Red

WAKING UP A LIFT AFTER CHARGING

When the GoLift Ultra wakes up from the sleep/inactive state, a sequence of three LED statuses will be shown before the lift goes back to sleep. The LED indication will differ when waking up the GoLift Ultra from sleep while the lift is on charge and while the lift is on battery power (off charge). Refer to the two tables below for the three LED color sequences.

LED Status While the Lift is on Battery Power		
	LED Color	Beeping
Wake	GREEN for 10 seconds	None
In Use or Idle	Full Charge: Continuous Solid GREEN for 1 minute	None
	Low Battery Level: Blinking AMBER 1x/s for 1 minute	None
	Critical Battery Level: Continuous Solid RED for 1 minute	1x/3s
Sleep (if inactive)	Off	N/A

- Status 1:** The first LED status will always show **GREEN** when the GoLift Ultra wakes up from sleep for 4 seconds.
- Status 2:** The second LED status will change to either RED, AMBER or **GREEN** depending on the battery level of the lift:
- a. Remain **GREEN** for 1 minute if the battery level is sufficient.
 - b. Change to **AMBER** after 9 seconds, for 1 minute if the battery level is low.
 - c. Change to **RED** after 9 seconds, for 1 minute if the battery level is at a critical state.

The above states will remain until the GoLift Ultra goes to the sleep state after one minute of inactivity.

Description of Functions

LED Status While the Lift is Charging		
	LED Color	Beeping
Wake	Solid GREEN for 4 seconds	None
Charging	Solid AMBER for 4 seconds	None
In Use or Idle	Solid GREEN for 3 minutes	None
	Solid AMBER for 3 minutes	None
Sleep (if inactive)	Off	N/A

Status 1: The first LED status will always show **GREEN** when the GoLift Ultra wakes up from sleep for 4 seconds.

Status 2: The second LED status will change to **AMBER** for 4 seconds to confirm that the GoLift Ultra is currently on charge.

Status 3: The third LED status will:

- Remain **AMBER** for 3 minutes if the GoLift Ultra is still charging, before the lift goes back to sleep after inactivity.
- Change to **GREEN** for 3 minutes to indicate the GoLift Ultra is fully charged before the lift goes back to sleep after inactivity.

OTHER ERRORS

The GoLift Ultra features various error codes that informs the user of any conditions or faults the lift is experiencing. It is shown as both a visual LED and audible beeping, along with a message on the hand control display. Please see the list below for all the error codes.

Error Codes					
Error Code Number	Error	LED and Beep Sequence	Expected Behavior		
			Up	Down	Emergency Lowering
001	Lift Attachment Error	Blinking RED 1x/s, Continuous Beep		✓	✓
002	Battery Not Plugged In No Temperature Sensor Detected	Blinking RED 3x/s, 1s off Beeping 1x/5s		✓	✓
004	Over Capacity Error	Blinking RED 2x/s Continuous Beep		✓	✓
005	Over Temperature Error	Blinking RED 2x/s Beeping 1x/5s		✓	✓
006	Brake End of Life	Blinking RED 4x/s, 1s off Beeping 1x/5s		✓	✓
009	Hand Control Communication Error	Continuous RED No Beeping			✓
007	Maintenance Alarm	Blinking Green 2x/s	✓	✓	✓

Maintenance alarm:

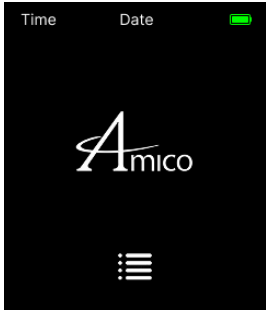
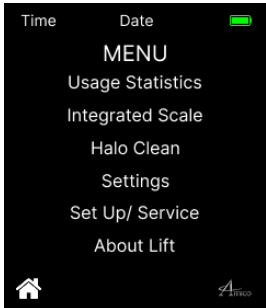
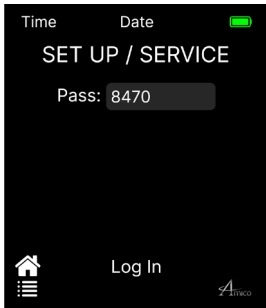
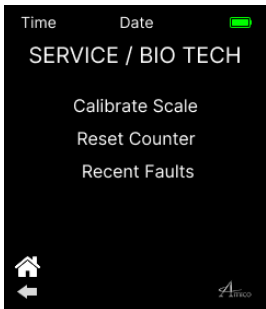
After 1001 lifts, the LED on both the hand control and lift will blink GREEN. This alarm can be reset in the Set Up/Service Menu. Additionally, the PM alert will be triggered one year from the date of manufacture..

NOTE: The reset function for the maintenance alarm can be performed at any time and is not limited to occurring after the 1000th lift.

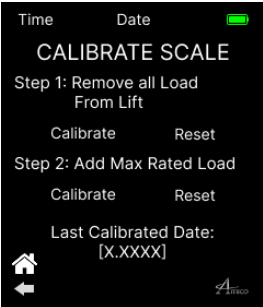
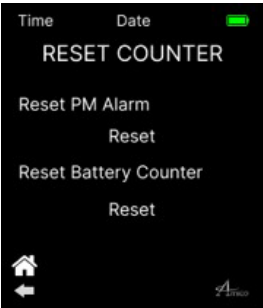
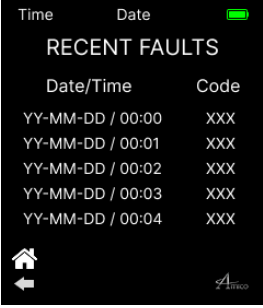
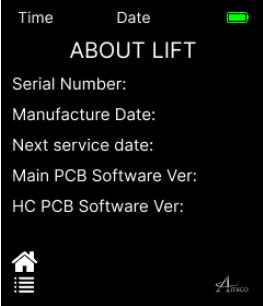
Description of Functions

SERVICE MENU NAVIGATION

Follow the following set of instructions to navigate to the desired screen.

Steps	Instructions	Screen Image
1	When the lift is turned on, the HOME screen is shown. Press the OK button on the hand control to proceed to the MENU screen.	
2	Once the MENU screen is shown, press either the ▲ or ▼ button on the hand control until you navigate to the “Set Up / Service” selection. Press OK to enter the SET UP / SERVICE screen.	
3	Once the SET UP / SERVICE screen is shown, press either the ▲ or ▼ button on the hand control to navigate to the password box. When pressing OK on the password box, an on-screen number pad will pop-up. Press either the ▲ or ▼ button on the hand control to navigate to the numbers for the password. For each digit, ensure that OK is pressed to enter it. Once all 4 digits are pressed, press the checkmark in the number pad to exit out of the number pad and navigate down to the “Log In” selection. NOTE: If the password was entered correctly, the SERVICE / BIOTECH screen would appear. If the password was entered incorrectly, nothing will happen.	
4	On the SERVICE / BIO TECH screen, there are three options that the technician can choose from: “Calibrate Scale” is used to re-calibrate the scale. “Reset Counter” is used to reset the PM Alarm and Battery Counter. “Recent Faults” is used to observe the last 5 errors that occurred on the lift.	

Description of Functions

Steps	Instructions	Screen Image
5	On the CALIBRATE SCALE screen, there are two steps that must be performed to properly calibrate the scale. To re-calibrate the lift, ensure that "Reset" is pressed on both Steps 1 and 2. Once the steps have been re-calibrated, the word "Calibrate" will change to "Calibrated" to ensure the calibration was completed. Step 1 involves re-calibrating the zero value of the lift. Remove all weight from the lift (carry bar included). Once the weight has been removed, press the "Calibrate" selection. Step 2 involves re-calibrating the maximum rated load value of the lift. For GLU-450: Ensure 450lbs exactly was used. For GLU-700: Ensure 708lbs exactly was used. Once the scale has been calibrated, the "Last Calibrated Date" should have been updated.	
6	The RESET COUNTER screen allows you to reset the PM alarm, along with the Battery Counter. A blinking green LED will show when the lift has performed 1000 lifts, or the "Next Service Date" has been reached. The PM Alarm can be reset any time. The "Reset Battery Counter" option is used whenever a Battery replacement has been performed to reset the charge cycle count of the battery.	
7	The RECENT FAULTS screen shows the last 5 errors that occurred on the lift, along with the date and time when the error occurred.	
8	The ABOUT LIFT screen shows information related to the lift, as shown on the right.	

Troubleshooting

ERROR-SPECIFIC TROUBLESHOOTING GUIDE

If any of the error codes listed in the “Other Errors” section are displayed, refer to the following table for recommended troubleshooting and corrective actions.

Error Code	Step by Step Guide
Lift Attachment Error	The “Lift Attachment Error” message is displayed when the lift is not properly attached to the trolley. To resolve this condition: 1. Verify that the lift is correctly attached to the trolley. 2. Ensure the lift is seated flat and is not tilted or angled. If the error persists after confirming proper attachment, contact a qualified service technician or Amico Mobility Solutions for repair or replacement assistance.
Battery Unplugged Error	The “Battery Unplugged Error” message may be displayed under the following conditions: Scenario 1: One or Both Batteries Are Disconnected One or both batteries are not properly connected to the lift. To resolve this condition: 1. Verify that the batteries are properly connected to the lift. 2. Refer to the battery connection labels to ensure correct battery orientation and connection. Scenario 2: Batteries Are Connected but Fully Discharged If the batteries are properly connected and the error remains active, the batteries may be completely discharged due to improper storage conditions or failure to charge the lift for an extended period. In this condition: 1. The “Battery Overtemp Error” message may also be displayed. 2. The battery temperature sensor is additionally used by the system to detect battery presence and connection status. If the batteries cannot be recovered through charging, replacement batteries may be required. Contact Amico Mobility Solutions or a qualified service technician for assistance.
Lift Overcapacity Error	The “Lift Overcapacity Error” message is displayed when the applied load exceeds the rated lifting capacity of the lift. To resolve this condition: 1. Lower the load until the error condition clears automatically. 2. The error indication may remain active even after the load has reached the floor. In this situation, continue pressing the DOWN button until the error clears.  WARNING: Do not operate the lift with loads exceeding the rated capacity of the device. Overloading may result in equipment damage or injury to the patient and caregiver.
Battery Overtemp Error	The “Battery Overtemperature Error” message is displayed when the battery temperature exceeds the maximum allowable operating threshold. To resolve this condition: 1. Discontinue use of the lift. 2. Allow the lift and batteries to cool naturally until the error condition clears.
Brake End of Life Error	The “Brake End of Life” error message is displayed when the electromagnetic brake connected to the lift motor is approaching the end of its service life and requires replacement. Under this condition, the electromagnetic brake is drawing higher current than the specified operating range. If this error occurs, contact a qualified service technician or Amico Mobility Solutions for inspection, repair, or replacement of the electromagnetic brake.
HC Comm Error	The “HC Comm Error” message indicates a communication fault between the hand control and the main lift unit. If this error occurs: 1. Verify that the hand control is properly connected to the lift. 2. Inspect the hand control cable and connector for visible damage or loose connections. If the error persists, discontinue use of the lift and contact a qualified service technician or Amico Mobility Solutions for inspection and repair.

Troubleshooting

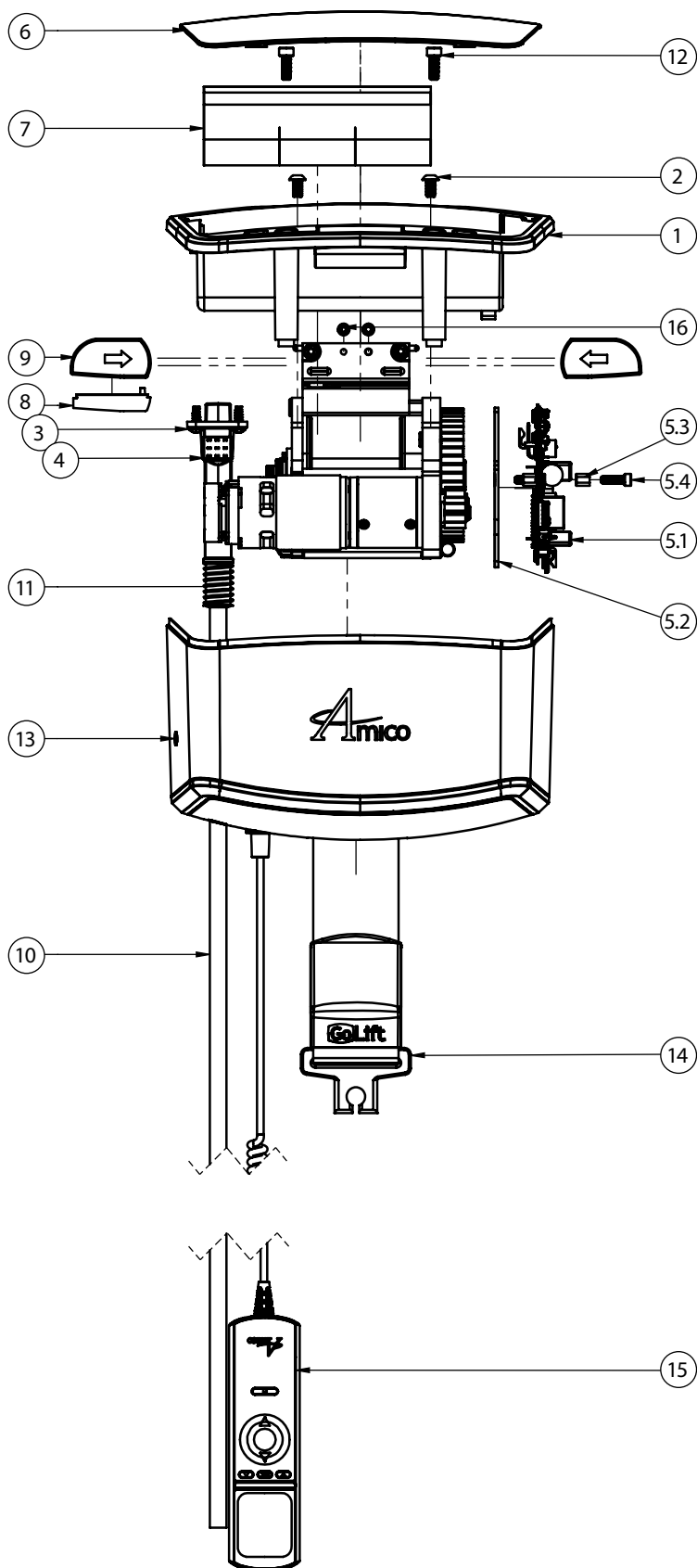
GENERAL TROUBLESHOOTING GUIDE

Refer to the following troubleshooting chart if any issues arise during operation of the Amico GoLift Ultra. Identify the fault condition and follow the recommended steps to diagnose and resolve the issue.

If the fault cannot be identified, or if the recommended corrective actions do not resolve the issue, contact Amico Mobility Solutions for further assistance.

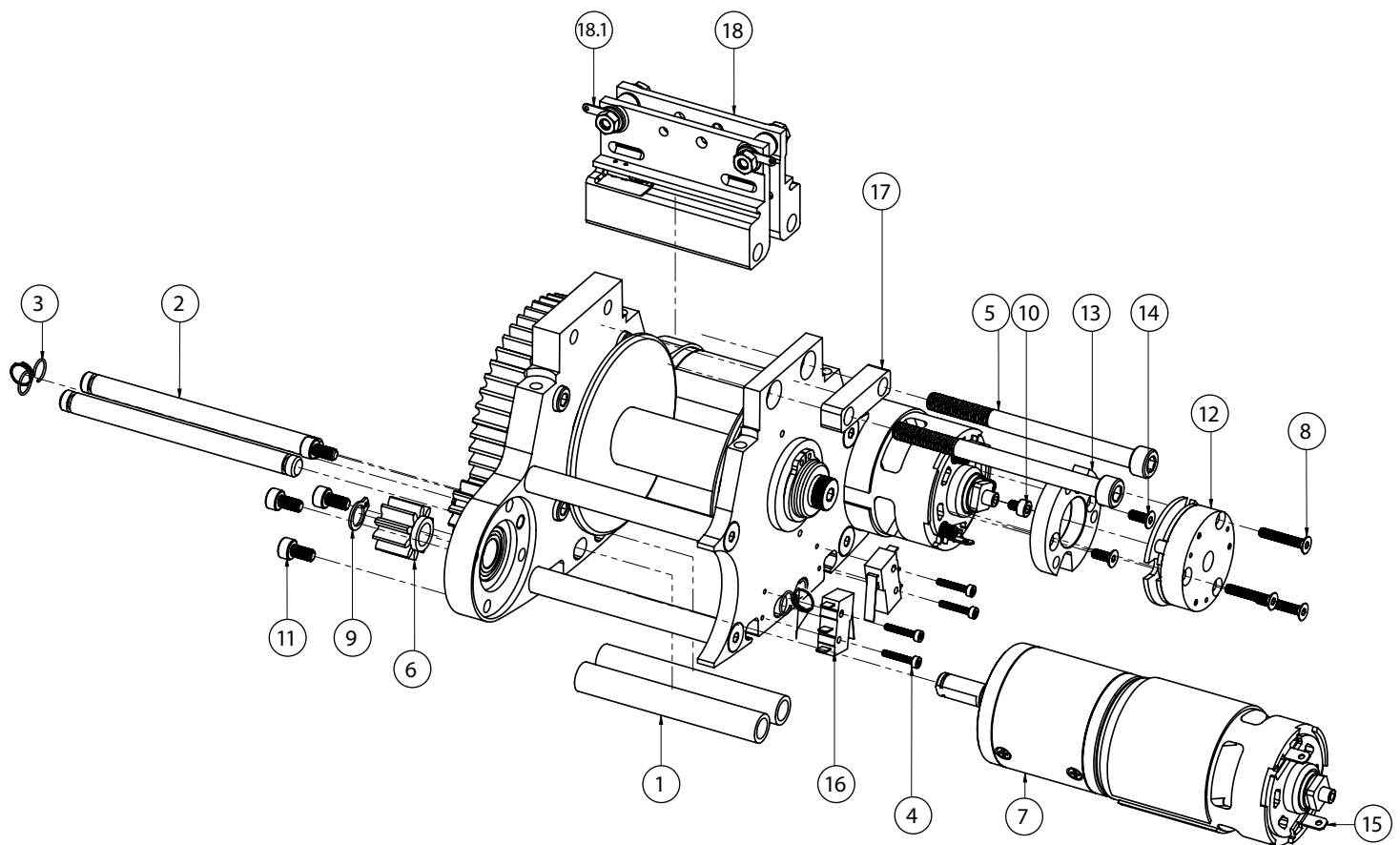
Issue	Step by Step Guide
The lift is completely unresponsive	1. Verify that the GoLift Ultra is powered ON by ensuring that the emergency stop tab has been pressed inward. 2. If the issue persists, verify that the batteries are properly connected to the lift. • Refer to the battery connection labels to ensure the batteries are connected correctly and with proper polarity. • After confirming the battery connections, repeat Step 1. 3. If the lift remains unresponsive after completing Step 2, the batteries may be fully discharged due to improper storage conditions or failure to charge the lift for an extended period. • In this condition, replacement batteries may be required.
The lift is not charging	1. Verify that the GoLift Ultra is powered ON by ensuring that the emergency stop tab has been pressed inward. 2. If the issue persists, verify that the batteries are properly connected to the lift. • Refer to the battery connection labels to ensure the batteries are connected correctly and with proper polarity. • After confirming the battery connections, repeat Step 1. 3. Verify that the track system is configured for either continuous charging or end-stop charging operation. 4. Using a multimeter, verify the charging circuit by following the charging path: • Remove the lift from the trolley and verify that 36 VDC is present between the two trolley latches. • Remove the track end cap and verify that the socket cap screws associated with the end-stop charging assembly are making proper contact with the charging strips. 5. Verify that the barrel plug is securely connected to the power supply cable. 6. Verify that the power supply is connected to an appropriate power source and that the power supply status indicator displays a solid GREEN LED.
The lift will not raise	1. Check that the batteries are charged. 2. Check that the trolley is properly clipped into the lift.
The lift will not go down	The lift will only lower when tension is applied to the strap. Ensure the strap is under tension while pressing the DOWN button.
The lift only does a few lifts before showing dead battery after charging 4+ hours	The batteries may require replacement if they have reached the end of their service life or have become excessively discharged.
The lift operates but shows a blinking GREEN LED	This indication corresponds to the Maintenance Alarm, which notifies the user that the lift is due for scheduled maintenance. No operational faults or performance issues are associated with this indication. Refer to the “Description of Functions” section, under the “Other Errors” subsection, for additional information regarding the Maintenance Alarm.

Exploded Diagrams



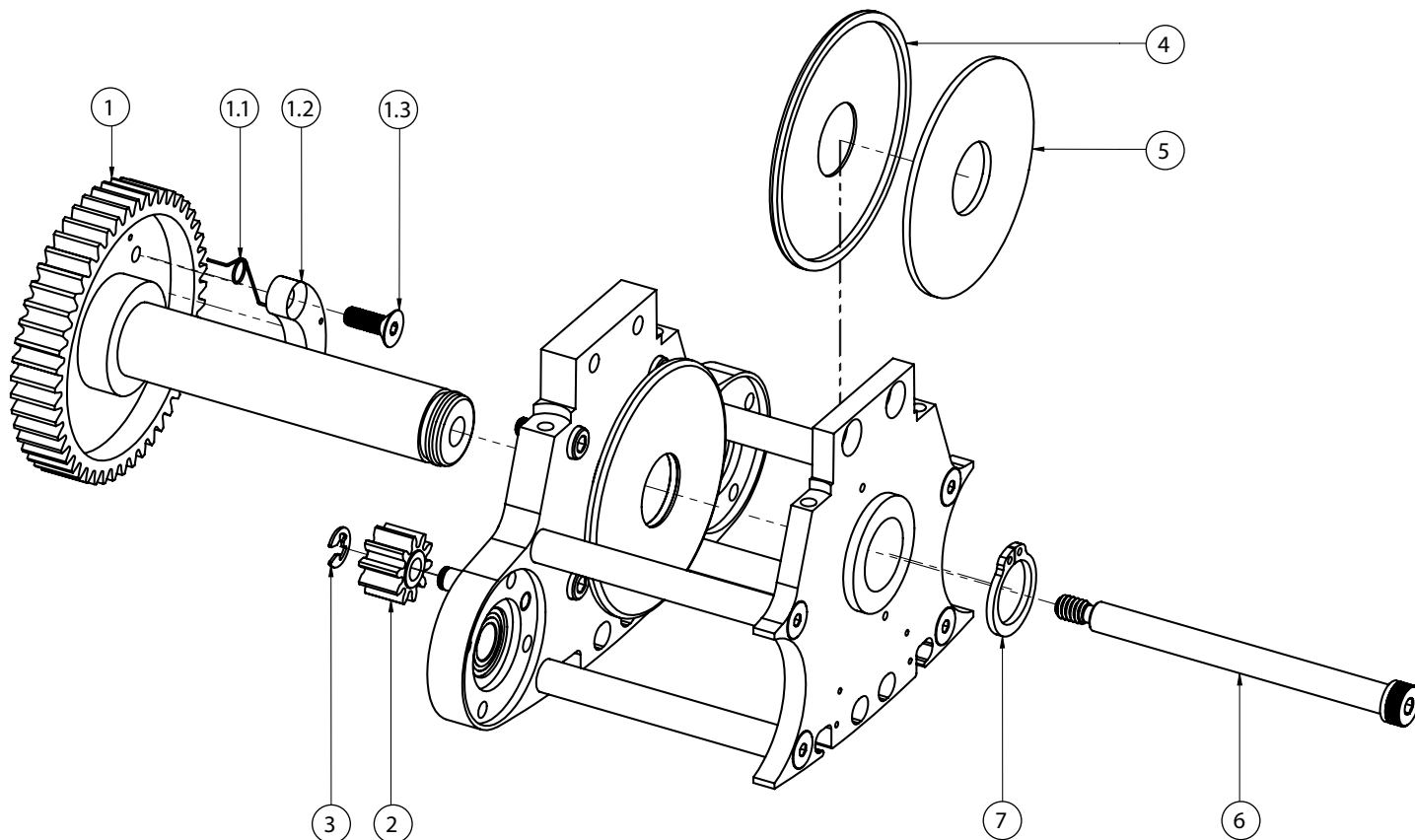
Item No.	Part Number	Description	Qty.
1	GLU-TOP-CVR-ASSY	GOLIFT ULTRA TOP COVER ASSEMBLY	1
2	FS-SCR-SB-M5-10-SS	M5 BUTTON HEAD, 10 mm LONG STAINLESS STEEL	4
3	FS-SCR-PB-8-16-0.5	PHILIPS BUTTON HEAD 8-16 SCREW 0.5" LONG	2
4	GLU-EMG-SWT-SUB-ASSY	GOLIFT ULTRA EMERGENCY SWITCH SUB-ASSEMBLY	1
5	GLU-CRC-BRD-SUB-ASSY	GOLIFT ULTRA CIRCUIT BOARD SUB-ASSEMBLY	1
5.1	EL-CRC-BRD-GLU-2	GOLIFT ULTRA CIRCUIT BOARD - 2 WAY	1
5.2	GLU-CRC-BRD-SHIELD	GOLIFT ULTRA CIRCUIT BOARD SHIELD	1
5.3	FS-SPC-NYL-M4-8	HEX THREADED STANDOFF, M4 THREAD	2
5.4	FS-SCR-SC-M4-14-SS	M4 SOCKET CAP SCREW 14mm LENGTH	2
6	GLU-BAT-LID-SUB-ASSY	GOLIFT ULTRA BATTERY LID SUB-ASSEMBLY	2
7	EL-BAT-PACK-C-3.3AH	IMH BATTERY PACK, 14.4V 3.3AH	2
8	GO-LIFT-QR-TRLY-BTN-INSRT	QUICK RELEASE TROLLEY BUTTON INSERT	2
9	GO-LIFT-QR-TRLY-BTN	QUICK RELEASE TROLLEY BUTTON	2
10	GLU-EMG-CRD-SUB-ASSY	GOLIFT ULTRA EMERGENCY CORD SUB-ASSEMBLY	1
11	FS-SPR-1-0.602-4.09	0.602" ID COMPRESSION SPRING, 1.28" LONG - 4.09 LBS/IN	1
12	FS-SCR-SC-M5-14-12.9	M5 SOCKET CAP SCREW 14mm 12.9 GRADE	4
13	GLU-BTM-CVR-ASSY	GOLIFT ULTRA BOTTOM COVER ASSEMBLY	1
14	GLU-STP-SUB-ASSY	STRAP SUB-ASSEMBLY	1
15	GLU-HND-CTRL-2	GOLIFT ULTRA HAND CONTROL 2 WAY	1
16	FS-SCR-SC-M4-14-SS	M4 SOCKET CAP SCREW 14mm LENGTH	2

Exploded Diagrams



Item No.	Part Number	Description	Qty.
1	GO-LIFT-LMT-SWT-RLR	GOLIFT LIMIT SWITCH ROLLER	2
2	GO-LIFT-LMT-SWT-SHFT	GOLIFT LIMIT SWITCH SHAFT	2
3	GO-LIFT-LMT-SWT-SPR	GOLIFT LIMIT SWITCH SPRING	2
4	FS-SCR-SC-M2-12-SS	M2 SOCKET CAP SCREW 12mm LENGTH	4
5	FS-SCR-SC-M6-80-12.9	M6 SOCKET CAP SCREW 80 mm LENGTH 12.9 GRADE	2
6	GO-LIFT-MTR-GEAR-V02	GOLIFT MOTOR GEAR, VERSION 2	2
7	GO-LIFT-MTR-KM-42X75-10	GOLIFT KINMORE MOTOR, 10MM SHAFT	2
8	FS-SCR-SK-M3-18-SS	M3 COUNTER SUNK SCREW 18mm LENGTH	3
9	FS-RTR-8MM	8MM EXTERNAL RETAINING RING	2
10	FS-SCR-SC-M3-4-12.9	M3 SOCKET HEAD CAP SCREW LENGTH 4mm 12.9mm GRADE	1
11	FS-SCR-SC-M4-8-SS	M4 SOCKET CAP SCREW 8mm LENGTH	8
12	GLU-MTR-EM-BRK-HRN	GOLIFT ULTRA MOTOR BRAKE HARNESS	1
13	GO-LIFT-MTR-BRK-ADP-PLT-SUB-ASSY	MOTOR BEAK ADAPTOR PLATE SUB-ASSEMBLY	1
14	FS-SCR-SK-M3-8	M3-0.50 X 8mm DIN 7991 CLASS A2 STAINLESS STEEL FLAT HEAD SOCKET CAP SCREW	2
15	GLU-MTR-CBL-HRN	GOLIFT ULTRA MOTOR CABLE HARNESS	2
16	GLU-LMT-SWT-HRN	GOLIFT ULTRA LIMIT SWITCH HARNESS	1
17	GLU-TRLY-PLT-OFST-SPCR	GOLIFT ULTRA TROLLEY PLATE OFFSET SPACER	1
18	GLU-QR-TRLY-PLT-SUB-ASSY	GOLIFT ULTRA QUICK RELEASE TROLLEY PLATE SUB-ASSEMBLY	1
18.1	GLU-TRLY-LCH-CHRG-CBL-HRN	GOLIFT ULTRA TROLLEY LATCH CHARGING CABLE HARNESS	1

Exploded Diagrams



Item No.	Part Number	Description	Qty.
1	GO-LIFT-HUB-GEAR-SUB-ASSY	HUB GEAR SUB-ASSEMBLY	1
1.1	GO-LIFT-OVR-SPD-ARM-SPR	OVER SPEED ARM SPRING	1
1.2	GO-LIFT-OVR-SPD-ARM	GO LIFT OVERSPEED ARM	1
1.3	FS-SCR-SK-M5-14-SS	FLAT HEAD SOCKET CAP SS SCREW, M5 THREAD, 14mm LENGTH, 0.8 PITCH	1
2	GO-LIFT-IDL-GEAR-SUB-ASSY	IDL GEAR SUB-ASSEMBLY	2
3	FS-RTR-EXT-E-6-8	6-8 mm SHAFT EXTERNAL E-STYLE RETAINING RING (98543A113)	2
4	GO-LIFT-STP-GRD	STRAP GUARD THICK	2
5	GO-LIFT-STP-GRD-STFN	GO LIFT STRAP GUARD STIFFNER	2
6	FS-BLT-SHD-0.25-20-3.5	1/4"-20 SHOULDER BOLT 3.5" LENGTH - ALLOY STEEL	1
7	FS-RTR-EXT-0.75-HD	EXTERNAL RETAINING RING 3/4"	1

Instructions for Repair

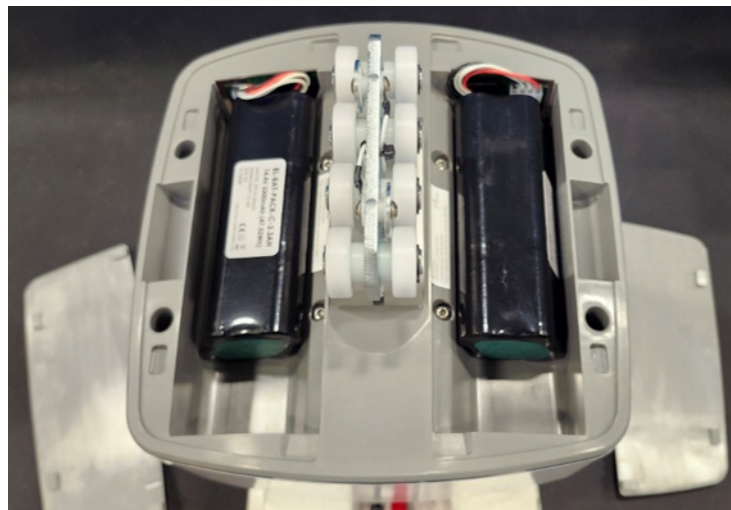
GETTING ACCESS TO THE GOLIFT ULTRA

To operate the GoLift Ultra using the hand control, a trolley must be properly inserted into the lift. Alternatively, for testing or servicing purposes, a jumper connector can be inserted into the latch switch port on the circuit board to enable lift operations without the trolley.

1. Before opening the GoLift Ultra, use the hand control to spool out the lift strap and create enough slack to allow the bottom cover to be easily set aside during servicing.
2. Use a stand to support the lift while it is being serviced. Position the GoLift Ultra such that the side showing the battery compartment lids is facing up.
3. Remove the battery lids.

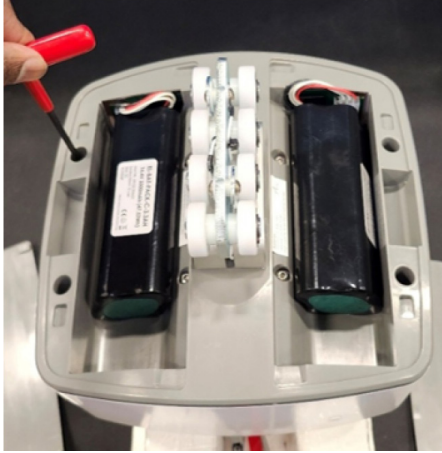


NOTE: The batteries do not need to be removed and disconnected from the GoLift Ultra as the lift will undergo functional inspection.

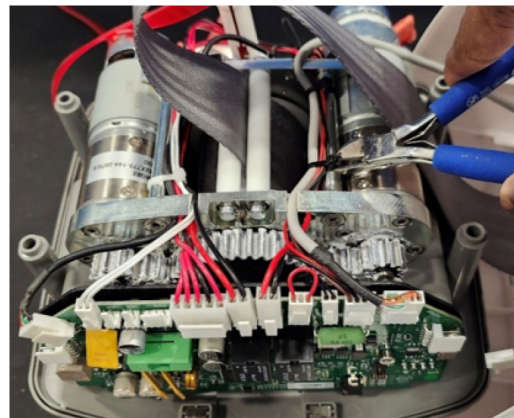


Instructions for Repair

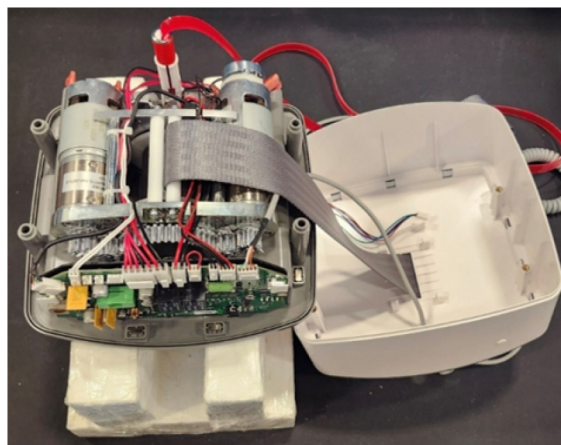
4. Use a 4mm Hex Allen Key to remove the four screws that secures the top and bottom cover together.
5. Place the battery compartment lids back onto the GoLift Ultra Top cover.



6. Carefully turn the lift upside down and gently hold the unit while pulling up on the bottom cover to remove it.
7. Unplug the LED strip connector and UVC module connectors (if equipped) from the PCB.
8. Cut the cable ties to remove and unplug the hand control.



9. Set the GoLift Ultra Bottom cover aside.

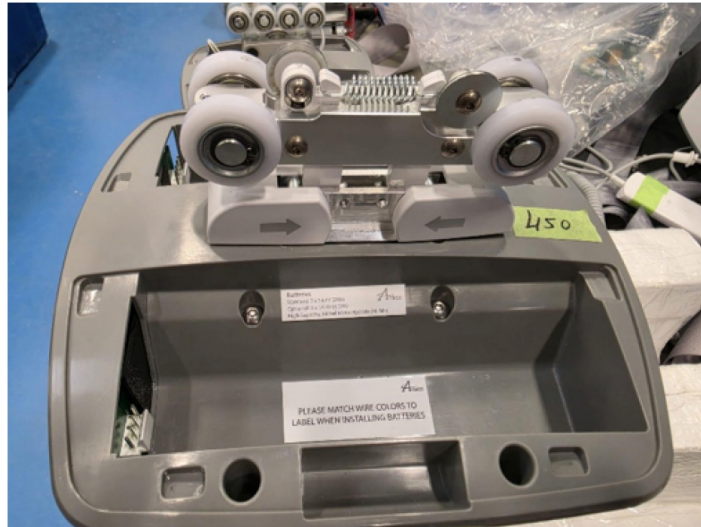


Instructions for Repair

ENGAGING THE TROLLEY MICRO-SWITCH

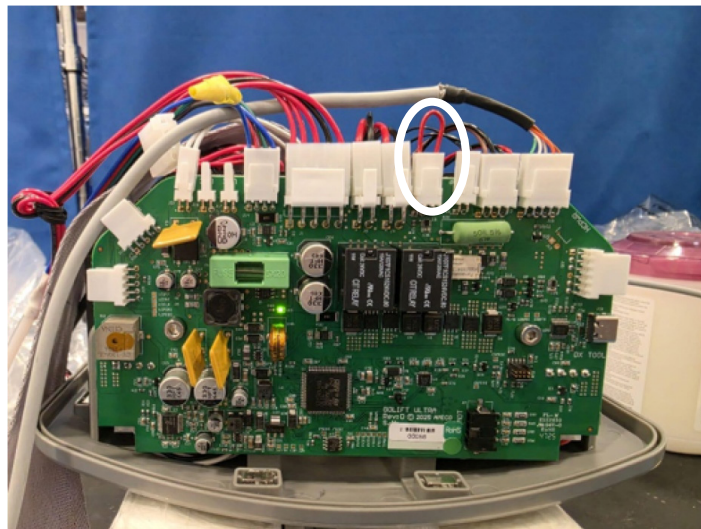
There are two options that can be performed to activate trolley micro-switches.

1. Insert the trolley to activate the trolley micro-switches to allow the GoLift Ultra to activate.



Alternatively, a jumper connector can be used to activate the trolley micro-switches in the lift.

2. Follow the steps in "Getting Access to the GoLift Ultra" to open the lift. Disconnect the trolley micro-switch harness and plug a jumper connector in the port where the trolley micro-switch harness was unplugged from.

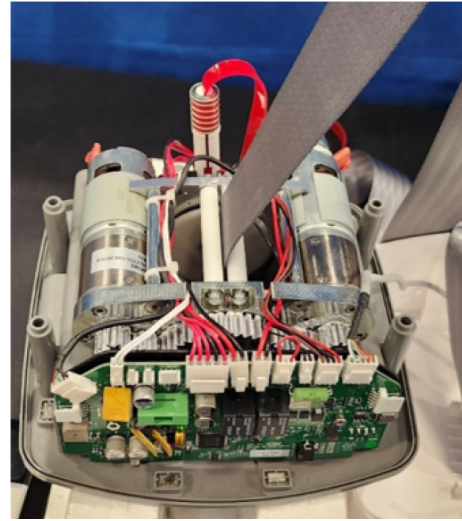
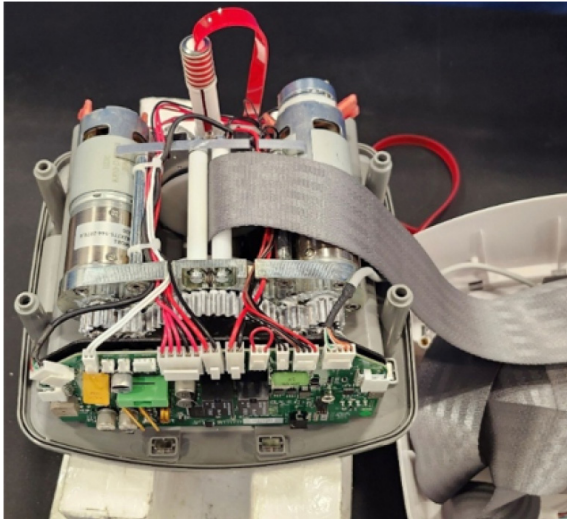


NOTE: If a jumper is used to activate the trolley micro-switches, ensure that the jumper is removed from the system at the end of the repair. This only applies for systems that are not Fixed Trolley lifts.

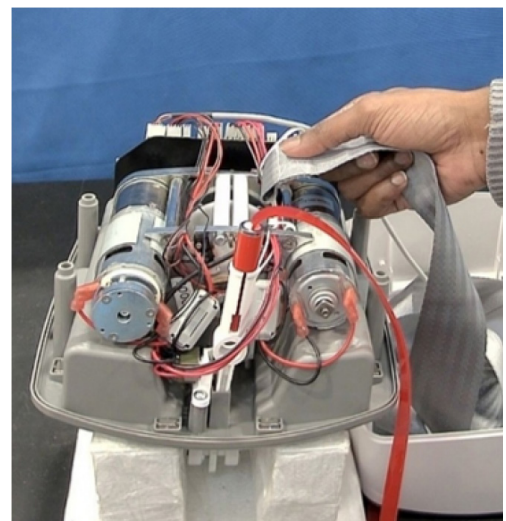
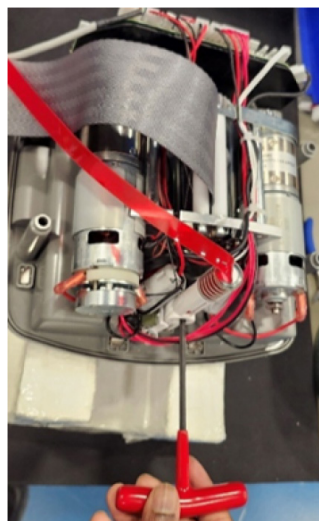
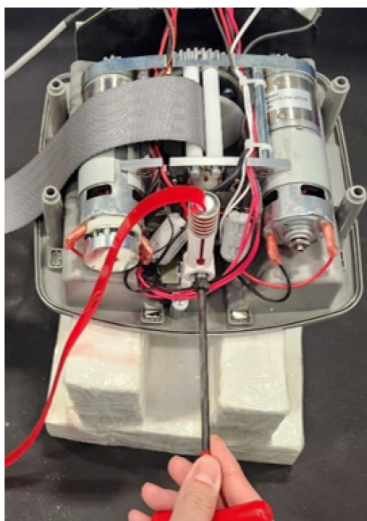
Instructions for Repair

REPLACING THE GOLIFT ULTRA STRAP

1. Follow the steps in "Getting Access to the GoLift Ultra" to open the lift. Ensure a trolley or jumper connector is used to allow the GoLift Ultra to activate.
2. While following the steps in "Getting Access to the GoLift Ultra" section, press the DOWN button on the hand control and pull the strap to fully unspool it. This step can also be done with the bottom cover removed; main difference is that the hand control must be removed from the case and plugged directly to the circuit board.

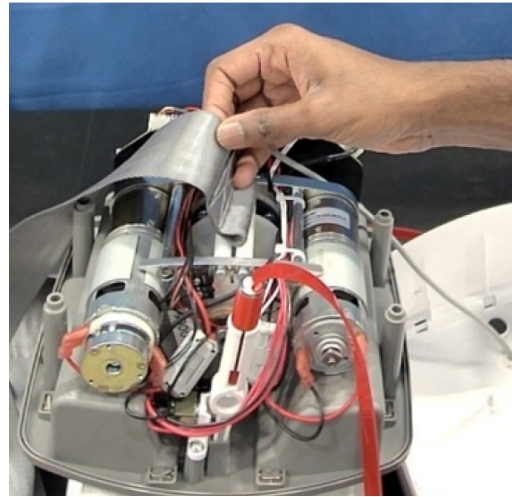


3. Use a 4mm Hex Allen Key and place it through the round opening of the emergency stop sleeve.
4. Unfasten and remove the 4mm Shoulder Bolt from the hub gear sub-assembly and pull the strap out.

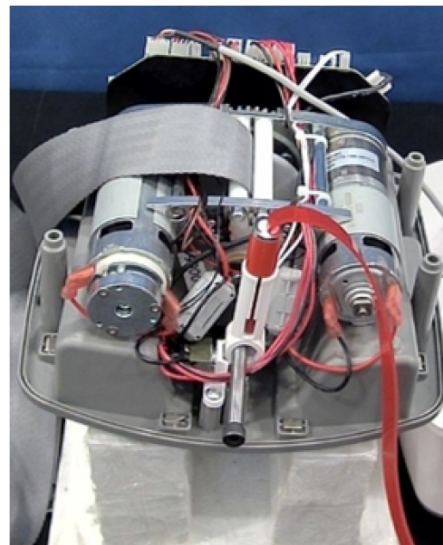
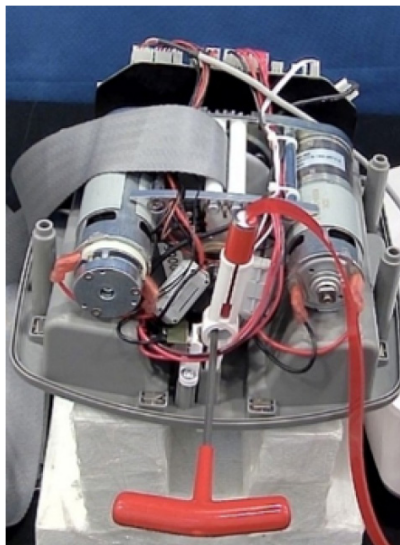


Instructions for Repair

5. Insert the new strap through the opening of the bottom cover of the GoLift Ultra, in the correct orientation as shown below.
6. Guide the new strap through the limit switch rollers. Check that the strap has not been twisted to ensure the strap is in the correct orientation.



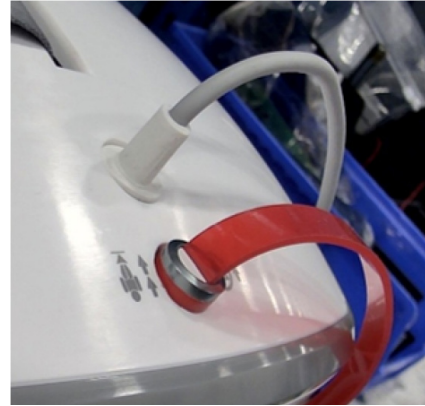
7. Position the new strap into the opening of the strap hub.
8. Use a 4mm Hex Allen Key to fasten the 4mm Shoulder Bolt back into place. Ensure that the 4mm Shoulder Bolt has passed through the loop of the strap by applying some force to the strap. The strap should not come out.



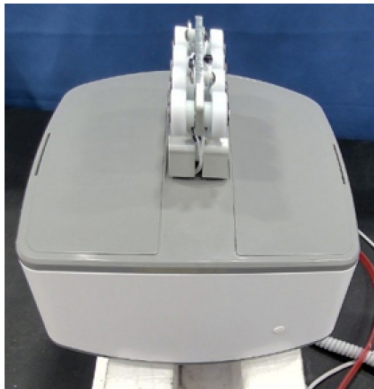
Instructions for Repair

REPLACING THE GOLIFT ULTRA BATTERIES

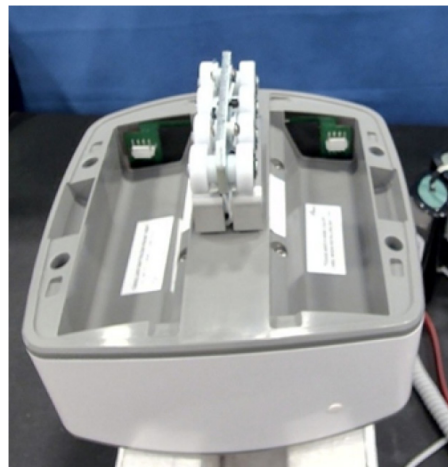
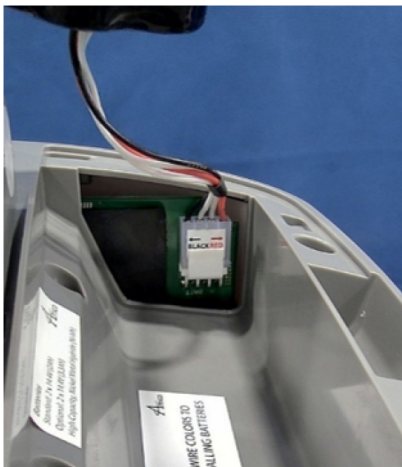
1. Pull the red emergency power cord to ensure all power is cut off from the battery and lift.



2. Remove the battery lids to expose the batteries.

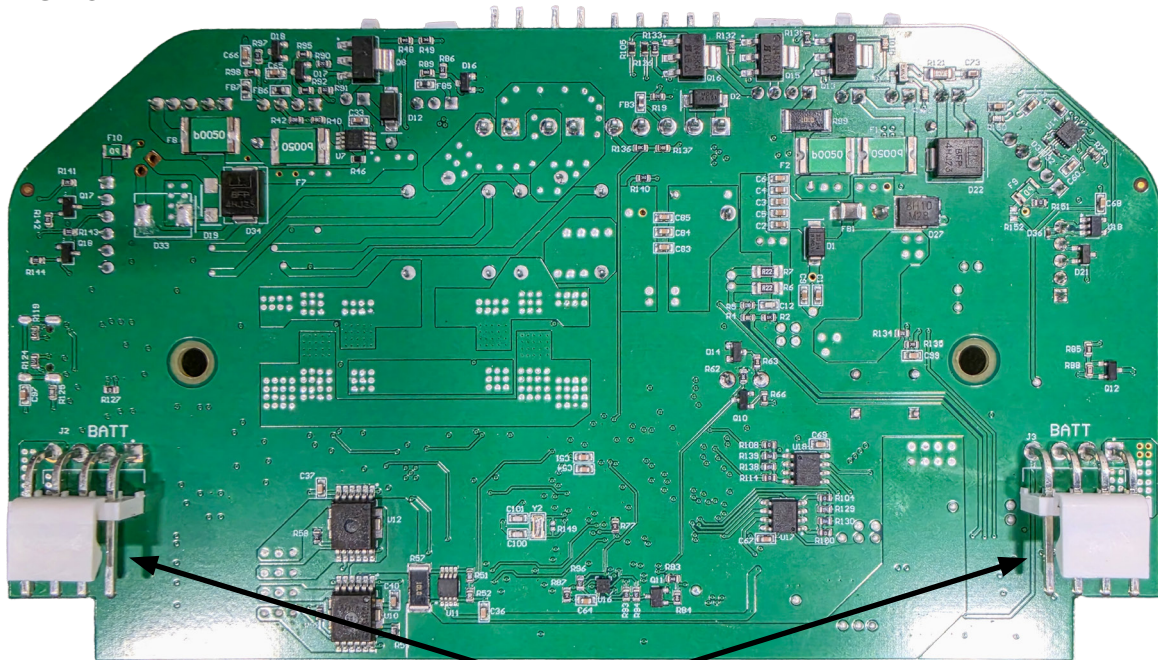


3. Disconnect the batteries from the GoLift Ultra.

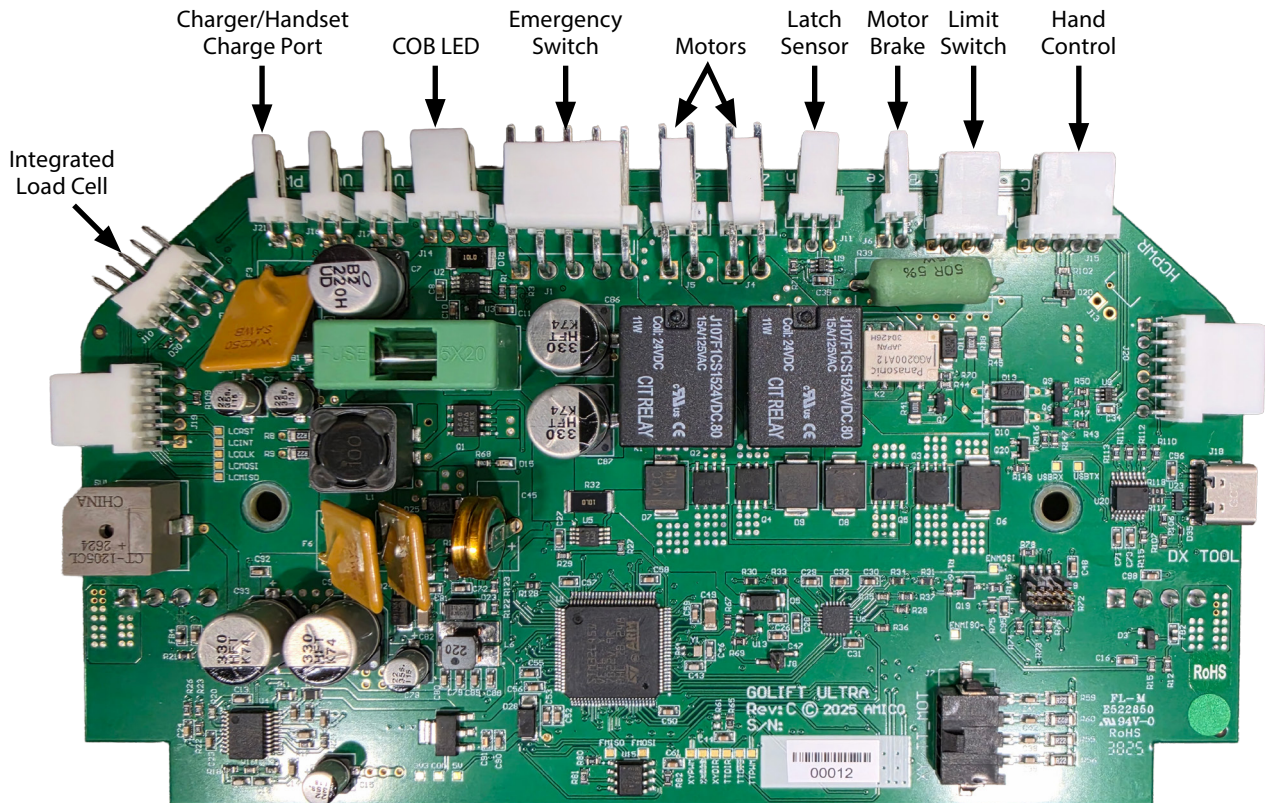


Instructions for Repair

PCB CONNECTION



Battery Connectors

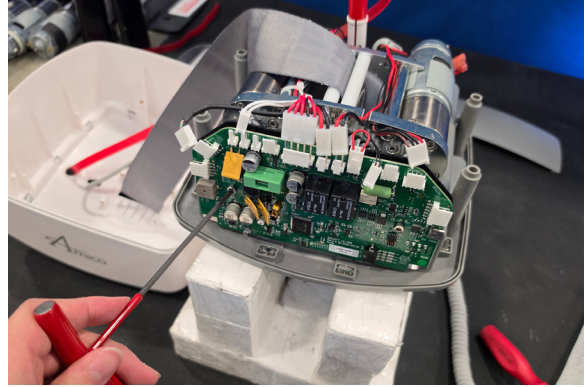
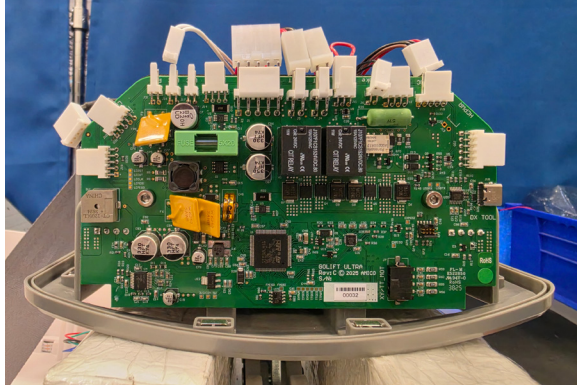


NOTE: A Handset Charge GoLift Ultra does not use the standard charging cable found on a typical GoLift Ultra system. It charges exclusively through the handset and will not receive charge through the track. Ensure the handset is properly connected for charging.

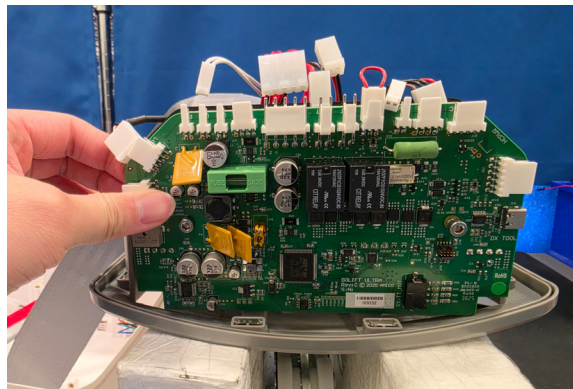
Instructions for Repair

REPLACING THE PCB

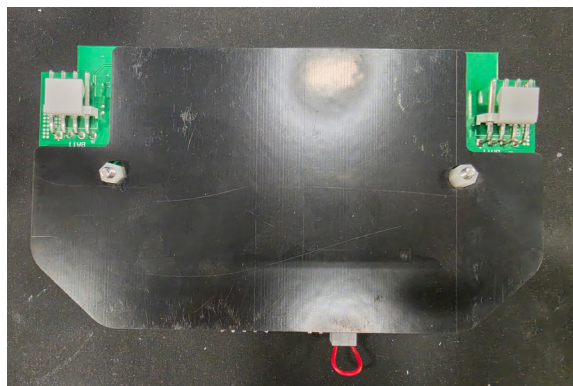
1. Ensure proper ESD equipment is worn prior to handling the PCB.
2. Follow the steps in “Getting Access to the GoLift Ultra” to open the GoLift Ultra.
3. Disconnect all the connectors from the PCB.
4. Use a 3mm Hex Allen Key to remove the two socket caps screws that secures the PCB in place.



5. Once removed, place the new PCB and PCB shield back onto the top cover of the GoLift. Check that the PCB is positioned properly, ensuring the battery connectors are properly fitted into the hole of the Top Cover as shown.



NOTE: Ensure the PCB shield is properly installed on the back of the GoLift Ultra circuit board to protect it from contact with the gears and grease.

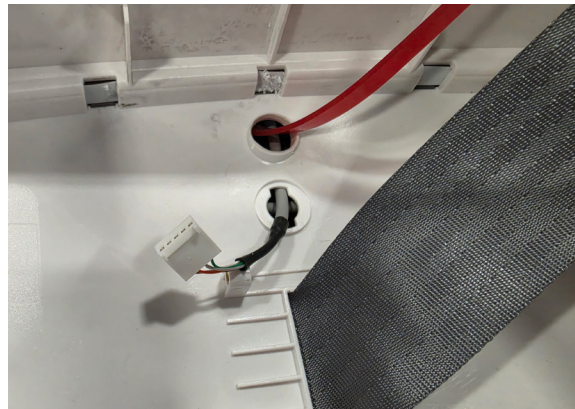
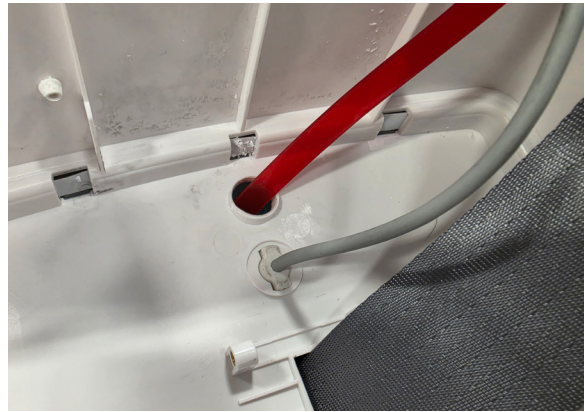
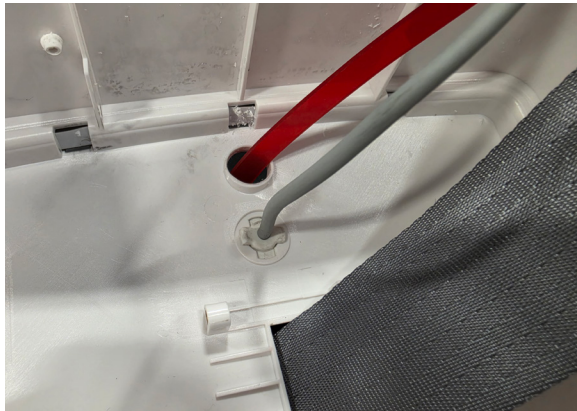


6. Plug in all connectors and secure the PCB back onto the top cover using a 3mm Hex Allen Key.

Instructions for Repair

REPLACING THE GOLIFT ULTRA HAND CONTROL

1. Follow the steps in "Getting Access to the GoLift Ultra" to open the GoLift.
2. By following Step 1, the hand control harness should have already been disconnected from the GoLift Ultra PCB and removed from the cutout.

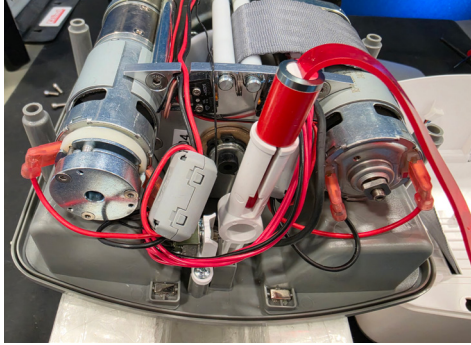


3. Once the hand control harness has been removed, install the new hand control by following the above steps in the reverse order.
4. Secure the new hand control harness back in place using cable ties.

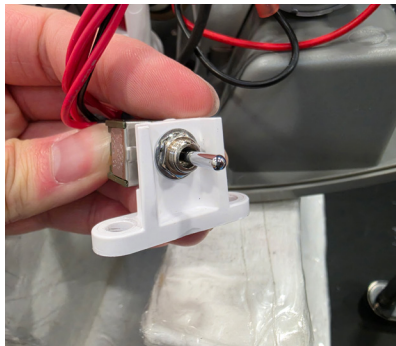
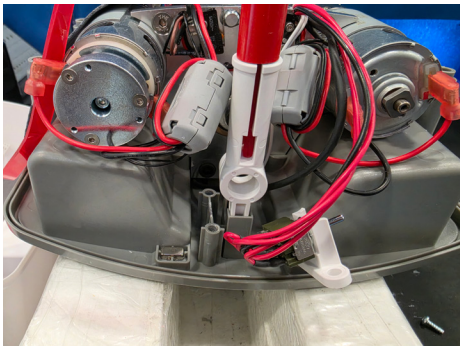
Instructions for Repair

REPLACING THE EMERGENCY SWITCH

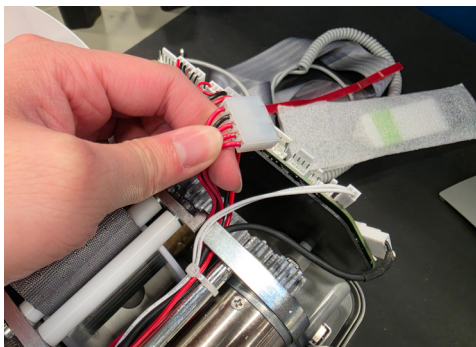
1. Follows the steps in “Getting Access to the GoLift Ultra” to open the lift.
2. Use a #2 Philips screwdriver to remove the two button head screws that secures the emergency stop switch bracket to the GoLift Ultra Top Cover.



3. Remove the emergency stop sleeve from the bracket.
4. Use a wrench with an 9mm socket to remove the emergency switch from the bracket.



5. Disconnect the emergency switch connector from the GoLift Ultra PCB.
6. Cut the cable ties that holds the emergency switch harness in place.

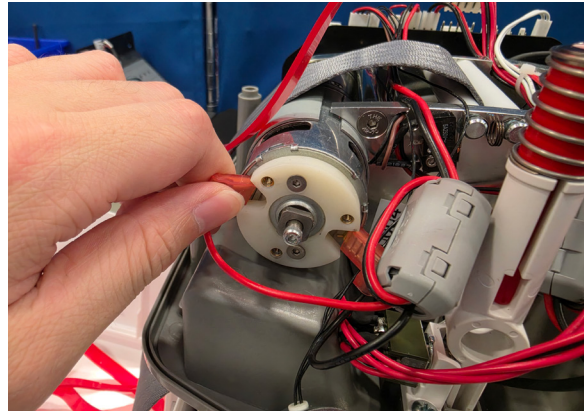
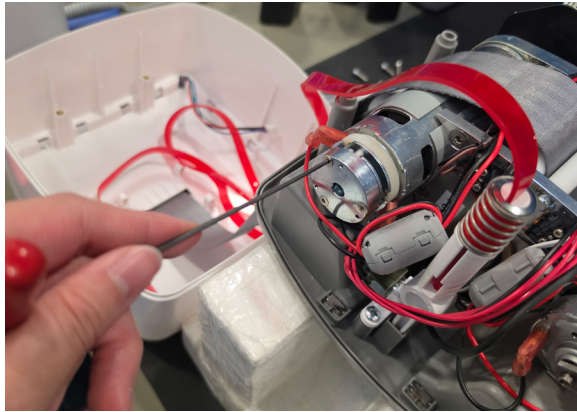


7. Install the new emergency switch by followings Steps 2 to Steps 5 in reverse. Ensure a cable tie is used to secure the emergency switch harness in place.

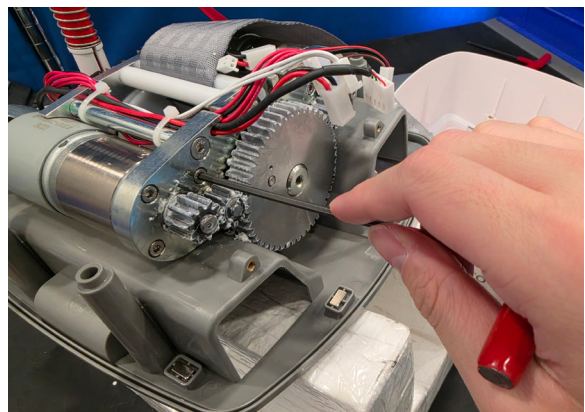
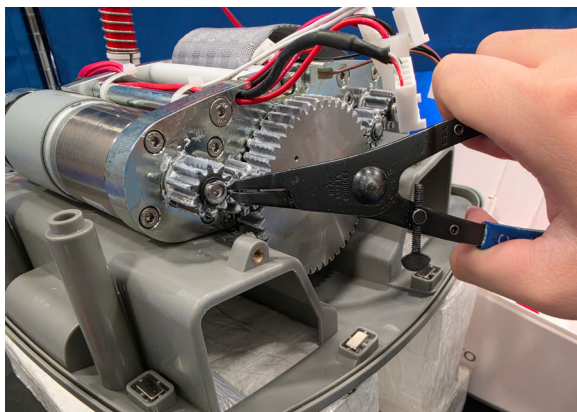
Instructions for Repair

REPLACING THE GOLIFT ULTRA MOTORS

1. Follow the steps in “Getting Access to the GoLift Ultra” to open the GoLift Ultra.
2. Use a 2mm Hex Allen Key to remove the three screws that secures the motor brake onto the motor.
3. Disconnect the motor cable harness(es) from the motor(s).



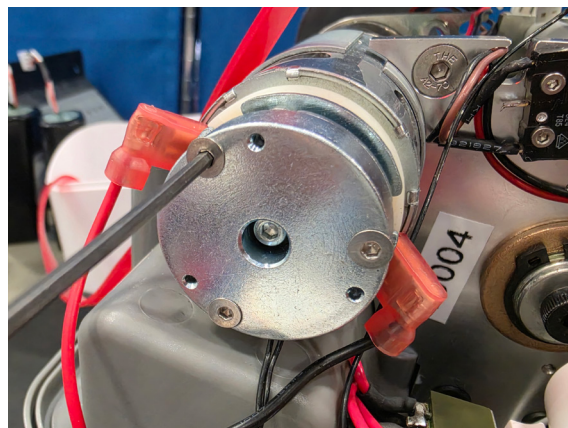
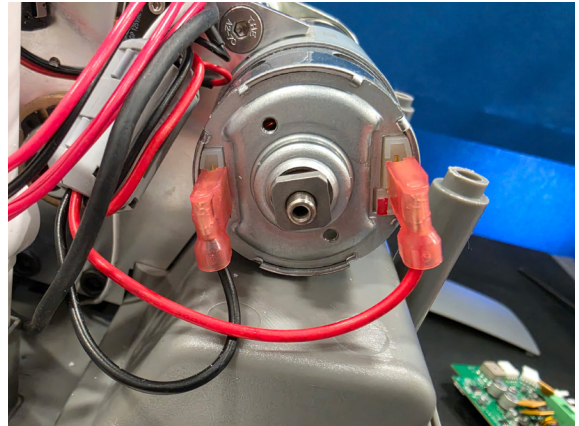
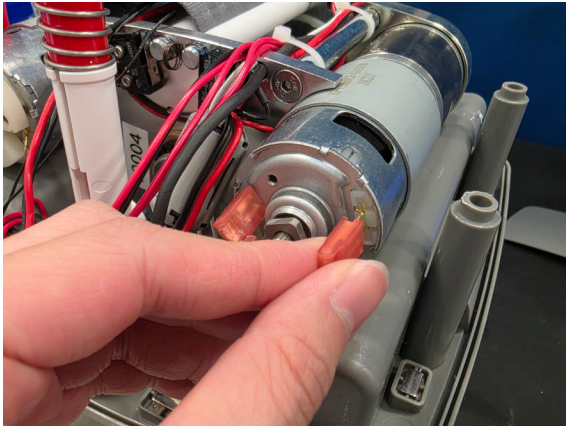
4. Follow the steps in “Replacing the PCB” to remove the circuit board from the GoLift Ultra to access the screws that secures the motor(s) in place.
5. Use a retaining ring plier to remove the retaining ring that secures the motor gear and remove it from the motor.
6. Use a 3mm Hex Allen Key to remove the four screws that holds the motor to the GoLift Ultra frame.



Instructions for Repair

7. Install the new motor(s), following the above steps in reverse.

NOTE: Ensure that the square cut-out on the motor brake pad is properly aligned with the square drive at the rear of the motor. Verify that the motor harness is securely connected to the correct terminal on the motor.



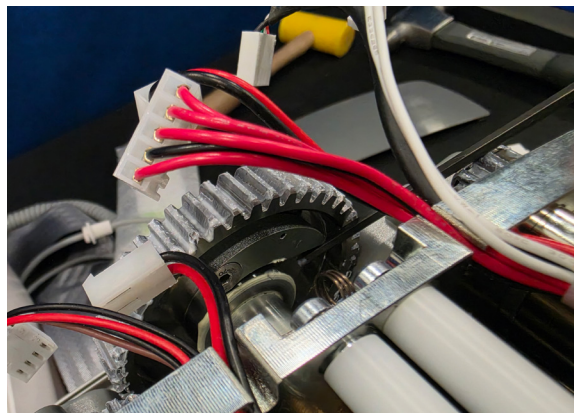
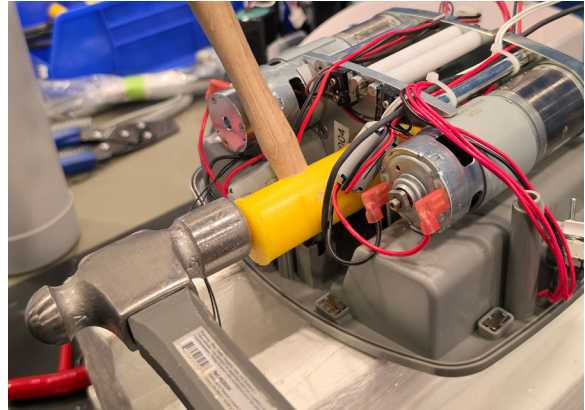
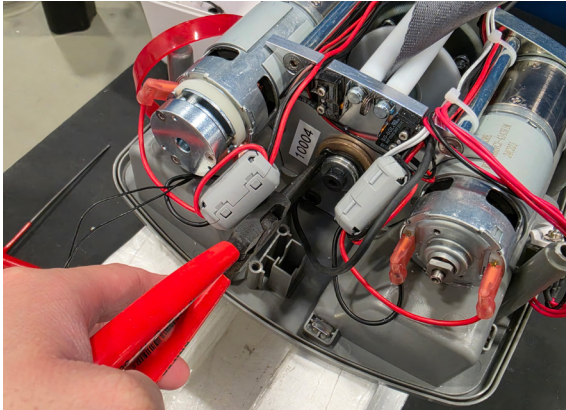
NOTE: When installing the new motor(s), ensure the motor(s) is properly orientated such that the flat end of the shaft is 45 degrees. If the shaft is not positioned at this angle, slowly rotate the shaft at the end of the motor to turn it slowly.

8. If the motor originally equipped with a brake is replaced, ensure the brake is re-installed onto the new motor. Refer to Step 2 in the previous instructions on the proper re-installation procedure.

Instructions for Repair

INSPECTING THE OVERSPEED CAM

1. Follow the steps in “Getting Access to the GoLift Ultra” to open the GoLift Ultra.
2. Use a Retaining Ring Plier to remove the retaining ring that secures the strap hub in place.
3. If required, use a plastic mallet and a bar to push the hub gear sub-assembly out of the GoLift Ultra.



4. Use a T-Handle or a small screwdriver to confirm that the overspeed cam is operating correctly and does not get stuck.
5. After confirming that the overspeed cam is operating smoothly, place the hub gear sub-assembly back in place and re-insert the retaining ring.

Instructions for Repair

REPLACING THE LIMIT SWITCH

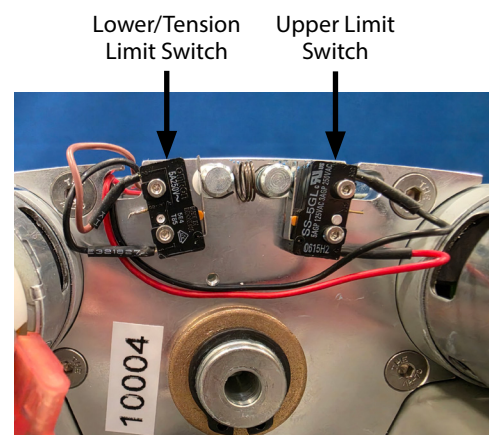
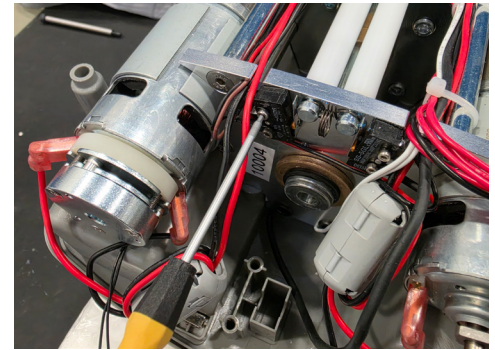
1. Follow the steps in “Getting Access to the GoLift Ultra” to open the lift.
2. Use a 1.5mm Hex Allen Key to remove the screws that secures the limit switches in place and disconnect the harness from the PCB.
3. Install the new set of limit switches and connect the harness to the PCB. Ensure that the limit switches are positioned correctly as shown and described below.

The upper limit switch should be installed on the right side of the GoLift Ultra in the orientation as shown.

The lower/tension limit switch should be installed on the left side of the GoLift Ultra in the orientation as shown.

The upper limit switch should activate if the limit switch on the right side is triggered. This indicates to the lift that the strap has reached its maximum height and can no longer spool into the lift.

The lower/tension limit switch should activate if the limit switch on the left side is triggered. This indicates to the lift that either the weight has been removed or the strap has reached its lowest height and can no longer lower.



Lift Functional Testing

Ensure a complete functional test is performed following any servicing or repair of the lift. The test shall verify that all applicable lift functions operate as intended before the unit is returned to service.

Test Item	Acceptance Criteria
Lift Controls	Verify that all lift controls function properly and operate as intended.
Handset Functions	Verify that all applicable handset functions operate as intended.
Upper Limit Switch	Raise the lifting strap and verify that the upward motion stops when the strap cover contacts the rollers.
Slack Tape Switch	Verify that the lowering motion stops when the lifting tape is fully unwound or when slack is detected in the strap.
Emergency Lowering	Test the emergency lowering function under load and verify that it operates as intended. Upon completion, push the Emergency Lowering tab back into its normal operating position.
Lift Charging	Verify proper charging operation and LED status: Green = ON; Orange = Charging.

Warranty Policy - Mobility Solutions

The primary purpose of our ceiling lift system is to safely lift, transfer and reposition a patient with as little effort as possible for the caregiver, regardless of the room type. The Amico Mobility Solutions Corporation's (Amico) GoLift is easy and safe to use for caregivers as well as patients. The lift systems fit into all environments and fulfill the highest requirements of function, safety and reliability.

Amico warrants its lifting equipment and workmanship to be free from defects for a period of one (1) year from the date of shipment. This includes tracks, lift motor, carry bar and accessories. The Amico slings have a warranty of one (1) year.

Within this period, Amico will replace any part (at no additional charge), which is deemed defective. Shipping and installation costs after the first twelve (12) months will be borne by the customer. The following exclusions apply: the warranty for batteries is for a period of three (3) months from the time of shipment; the warranty for power supply is one (1) year from the time of shipment.

This warranty is valid only when the product has been properly installed as outlined in the Amico specifications; including but not limited to proper usage and servicing of systems according to factory recommendations. It does not cover damages as a result of shipment failures, accidents, misuse, abuse, neglect, mishandling, alternation, misapplication or damages which may be attributed to acts of God.

The manufacturer's warranty is void if persons unauthorized by Amico perform work on the GoLift Patient Lift or the GoLift Portable450 lift systems. Specifically, only an individual trained by Amico is to perform service to the equipment. Warranty coverage does not include incorrect performance due to unauthorized service.

Amico under the terms of this guarantee shall be limited to the servicing of defective parts and shall not be liable for incidental or consequential damages resulting from the use of the equipment.

All claims for warranty must first be approved by Amico's Service Department at amo-service@amico.com or through Amico's direct lines: 905-747-2032 or 1-833-843-8470. A valid Return Goods Authorization (RGA) number must be obtained from Amico prior to commencement of any service work. Warranty work which has not been pre-authorized by Amico will not be reimbursed.

Unauthorized Modifications: Unauthorized modifications to structural, load-bearing, or safety-critical components may create unsafe conditions, invalidate applicable product safety certifications, and will void the Amico product warranty. Amico shall not be liable for any injury, damage, equipment failure, regulatory non-compliance, or other consequences resulting from unauthorized modifications, alterations, repairs, or the use of non-approved components or replacement parts. Any party that performs, authorizes, or permits such modifications assumes full responsibility for all resulting risks and consequences.



www.amico.com

Amico Mobility Solutions Corporation | 122-B East Beaver Creek Road, Richmond Hill, ON L4B 1G6, Canada
600 Prime Place, Hauppauge, NY 11788, USA
Toll Free Phone: 1.877.462.6426 | Toll Free Fax: 1.866.440.4986 | Tel: 905.764.0800 | Fax: 905.764.0862
Email: amo-service@amico.com | www.amico.com

AMO-IM-GOLIFT-ULTRA-SERVICE-REPAIR 09.28.2026