

Baxter

Welch Allyn

ELI 150c

Resting Electrocardiograph



Service manual

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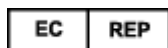


(150c) 901129 ELECTROCARDIOGRAPH



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Notices

Manufacturer's Responsibility

Baxter is responsible for the effects on safety and performance only if:

- Assembly operations, extensions, readjustments, modifications, or repairs are carried out only by persons authorized by Baxter.
- The device is used in accordance with the instructions for use.

Responsibility of the Customer

The user of this device is responsible for ensuring the implementation of a satisfactory maintenance schedule. Failure to do so may cause undue failure and possible health hazards.

Equipment Identification

Baxter equipment is identified by a serial and reference number on the back of the device. Care should be taken so that these numbers are not defaced.

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Other Important Information

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Notice to EU Users and/or Patients

Any serious incident that has occurred in relation to the device, should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

Disposal

This product and its accessories must be disposed of according to the local laws and regulations. Do not dispose of this product as unsorted municipal waste. For more specific disposal information see welchallyn.com/weee.

Preventative Maintenance



WARNING

Servicing of this device should only be performed by Baxter authorized service personnel. Baxter recommends preventive maintenance to be performed on an annual basis.



Caution

- Turn off the device before inspecting or cleaning.
- Do not immerse the device in water.
- Do not use organic solvents, ammonia-based solutions, or abrasive cleaning agents which may damage equipment surfaces.

Recommended Tools and Supplies

Device Cleaning / Consumables

- ☐ Clean lint free cloth
- ☐ Mild detergent
- ☐ Isopropyl Alcohol (80-99%)
- ☐ Cyanoacrylate Adhesive (e.g., Loctite 444 or equivalent product)
- ☐ Anaerobic Thread locker
- ☐ Smart Thermal Paper
- ☐ 10% Household bleach and water solution (Sodium Hypochlorite solution consisting of a minimum 1:500 dilution and maximum of 1:10 dilution for disinfecting use only)

Preventive Maintenance / Conformance Testing

- ☐ Multi-Meter
- ☐ ECG Simulator (10 Lead)
- ☐ **AM12** Patient Input Module (9293-048-5X)
- ☐ **WAM** Patient Input Module (30012-019-5X)
- ☐ **WAM/AM12** Lead Wire Set (9293-046-70)
- ☐ Patient Cable Snap Adapter Set (9281-002-50)
- ☐ Phillips #2 Screwdriver
- ☐ 10 Lead Shorting Block (or equivalent)
- ☐ Lead Test Failure Box (or equivalent)
- ☐ FAT 32 USB Memory Device
- ☐ PC with **ELI** Link v3.10 or later
- ☐ USB Cable Type A to B (6400-012)
- ☐ Phone Cable (6400-004)
- ☐ PC with **ELI** Link or **EScribe** and Modem (or equivalent)

- ☐ PC with NIC and **ELI** Link v4.5 or later
- ☐ Wireless Router 802.11 (a, b, g, n)
- ☐ Electrical Safety Analyzer

Preventative Maintenance Procedure

Inspection

1. Turn unit on and print the device configuration per configuration section of this manual. Attach a copy to the Preventive Maintenance Report.
2. Remove the unit cover.
3. Perform a visual inspection of the following items:
 - a. Enclosure/Housing – Look for damage or cracks in the external housing or enclosure that could possibly expose the device to the introduction of foreign objects or fluids. Attention should also be paid to areas that could expose an operator or patient to internal circuitry of the device.
 - b. Contamination – Look for any contamination that may have occurred over time that could not be seen with the housing in place.
 - i. Fluid damage (perhaps caused during device cleaning)
 - ii. Debris on or behind display shield
 - iii. Battery leakage (lithium and main battery)
 - c. Internal Cabling – Look for cracked, pinched or partially disconnected cable connections.
 - d. Fuse Ratings – Verify PCB mounted fuses (items 23 and 24) meet the specifications defined in the item description listing.
 - e. Markings and Labeling – Verify all labels and device markings are clearly visible and legible to the device user and have not been worn off or rendered unreadable through the use of harsh cleaning agents.
 - f. Integrity of Mechanical Parts – Verify the following items are properly secured to the device and have not become loose or damaged through usage over time.
 - i. AC Inlet
 - ii. Patient Input Connector
 - iii. Communication ports and antenna
 - iv. Writer mechanics/latching mechanism

Power Testing

Based upon customer usage and age of battery, replace as needed.

- Ensure battery is fully charged before performing these tests, voltage and current limits are based on a fully charged battery.
- Ensure there is no power connected to the UUT AC inlet.
- Remove upper housing and writer assembly. Disconnect battery by pulling battery cable off of the red terminal.

Note battery age (if possible)

This information can be found on the white “date code” sticker located on the battery (use the earliest date that is not crossed out). Record date on Preventative Maintenance Report (PMR).

Battery (open circuit)

Measure battery voltage using a voltage meter; verify the meter reads greater than 12.5vdc. Record result on PMR.

Battery (load)

Measure the battery voltage using a volt meter and a power resistor load (10ohm, 20watt) in parallel with the battery. After approximately 5 seconds, verify the meter reads greater than 11.7vdc. Record result on PMR.

Off current

Connect a current meter in line with battery. With the UUT power off, verify the current meter reads less than 100 micro amps. Record result on PMR.

On current

Turn on the unit and verify the current meter reads less than 250 milli amps. Record result on PMR.

AC charging current

Apply AC power to the unit and verify that the current draw from the battery reverses polarity and the value starts decreasing as time increases. Record result on PMR.

Battery charger output voltage

Disconnect the current meter and measure the battery charger output voltage between the red disconnected battery cable and the negative terminal on the battery. It should read between 13.0vdc and 14.0vdc. Record result on PMR.

- Verify all power cables are reconnected properly.
- Reassemble unit in reverse order of disassembly.

Functional Testing

AC LED/Display

1. Connect AC power cord to the unit and verify that the green AC LED (located to the left of the display) illuminates continuous.
NOTE: The battery indicator will be clear when charging and will illuminate white when fully charged.
2. Verify text on display is clear and legible and there are no flickering or missing lines/pixels.
3. Record result on PMR.

Writer

1. Open and close the writer door to verify smooth operation. Verify that the door unlatches without sticking and that it latches completely.
2. From the main screen, simultaneously press shift+alt+RHY.
 - a. Verify that a test page is printed and the writer stops on the cue mark.
 - b. The perforation of the paper should line up with the tear edge on the writer.
 - c. Assure there are no gaps in the printing and the print darkness is uniform across the entire page.
 - d. Verify the writer gears do not skip and paper is tracking properly (you may need to print multiple pages to observe this).
3. Record result on PMR.

ECG & Keyboard Matrix

1. Connect an ECG simulator to the **AM12** or **WAM** patient interface.
2. Set the simulator to a known heart rate and amplitude.
3. Press the ECG key to capture an ECG. Verify there is an audible beep with each key press.
4. Enter Last name "PARCFL8" (Note: "PARCFL8" ensures the keyboard matrix is fully tested), then press F6 (Done).
5. Verify that 12 ECG traces print correctly and assess the printout quality. Ensure uniform darkness across entire printout.
6. Record result on PMR.

ECG Noise Test

1. Connect a Shorting Block (TF-0629-*) and adapter or equivalent to the **AM12** or **WAM** patient interface.
2. Set the ECG gain on the unit to 20mm/mV.
3. Print a rhythm strip (approx. 1 page). Verify that no channels have more than 0.5mm of noise as measured by using Baxter thermal paper. (Smallest grid line = 1mm)
4. Record result on PMR

Communication Option Testing (as applicable)

The receiving station for modem, LAN and WLAN transmissions should be running Baxter **ELI** Link software. Refer to the **ELI** Link user manual for proper configuration.

Verify successful transmission of all applicable communication options by acquiring ECG records that include the transmission method in the "Patient Name" field (such as Last Name = USBD) then subsequently transmitting the ECG record stored to a compatible receiving device. Consult the product user manual if needed to properly configure the communication settings for each option present on the unit under test. Successful transmission of the test records can be verified by viewing the ECG records in the unit directory after transmission and confirming they are marked as "transmitted" (as defined in the product user manual). Record result on PMR.

- Modem
- LAN
- WLAN
- USB host (USB memory device needed)
- USBD

Clean unit per the instructions provided on a later page of this section of the servicemanual.

Safety Testing

If the cardiograph housing was opened for repair or inspection work, the following safety tests should be performed in accordance with the IEC 60601 standards.

The **ELI** 150C is considered a Class 1 Type CF device, intended to only be utilized with the Baxter **AM12** or **WAM** patient input modules. Defibrillation isolation from the patient is provided by the patient input modules, which are tested separately as part of the manufacturing process (they are considered non-serviceable devices), therefore Hi-pot testing is not required for these cardiograph models.

- Earth Leakage

- Enclosure Leakage
Non-conductive (fully insulated) chassis testing should be performed utilizing 200 cm² conductive foil or equivalent, earth ground on AC input is utilized for functional earth (not safety grounding).
- Patient Leakage
Applied part – patient input (utilize the **AM12** patient cable)
- Patient Auxiliary Current
Applied part – patient input (utilize the **AM12** patient cable)

ELI 150c Preventive Maintenance Report

Unit Serial #: _____

- ☐ Print device configuration (attach to this report)
- ☐ Remove the units upper housing

Perform Visual Inspection PASS / FAIL

Power Testing

Note Battery Age (If Possible)	_____ / _____	(week/year)
Battery (Open Circuit) Voltage	_____ VDC	(>12.5vdc)
Battery (with Load) Voltage	_____ VDC	(>11.7vdc)
Off Current	_____ Ua	(<100uA)
On Current	_____ mA	(<250mA)

AC Charging Current PASS / FAIL (Circle One)

Battery Charger Output Voltage _____ VDC (13.0-14.0vdc)

* Based upon customer usage and age of main battery, replace as needed.

- ☐ Verify all power cables are properly reconnected and reassemble unit Functional testing

AC LED/Display Functionality	PASS / FAIL (Circle One)
Writer Test	PASS / FAIL (Circle One) ECG
& Keyboard Matrix Testing	PASS / FAIL (Circle One) ECG
Noise Test	PASS / FAIL (Circle One)
Lead failure Test	PASS / FAIL (Circle One)
Communication Option(s)	
USB host	PASS / FAIL / NA (Circle One)
USBD	PASS / FAIL / NA (Circle One)
MODEM	PASS / FAIL / NA (Circle One)
LAN	PASS / FAIL / NA (Circle One)
WLAN	PASS / FAIL / NA (Circle One)

- ☐ Device Cleaning

Safety Testing PASS / FAIL (Circle One)

Earth Leakage
Enclosure Leakage Patient Leakage
Patient Leakage Current

Performed by: _____ Date: ____ / ____ / ____

Unit Disassembly

This section describes the methods used to disassemble and repair the **ELI 150c** and the tools required to perform the defined steps.



Cautions and Special Instructions



CAUTION: Risk of Explosion - DO NOT SHORT battery terminals. Leave the protective covers on the battery terminals until assembly into the base unit.



CAUTION: Risk of Shock – Line voltage may be present on the power supply of the device. Use caution when the device housing is removed and AC power is applied.



ATTENTION: PCB assembly contains ESD sensitive devices. Use appropriate precaution when handling electronic assemblies.



ATTENTION: PCB assembly contains mechanically sensitive electrical devices. Handle with extreme care to reduce the stress on solder connections.



ATTENTION: Before applying all adhesive backed materials, clean surface with alcohol to make sure it is clean and oil free.

Tools Required

- T10 **Torx** Driver Bit
- Phillips #2 Driver Bit
- Torque Driver (2 in/lbs)
- Torque Driver (3.5 in/lbs)
- Torque Driver (5 in/lbs)
- Needle Nose Pliers
- Phillips #2 Screwdriver
- Torque Wrench 8mm- 9.0 inch-pound hand wrench
- Side Cutters

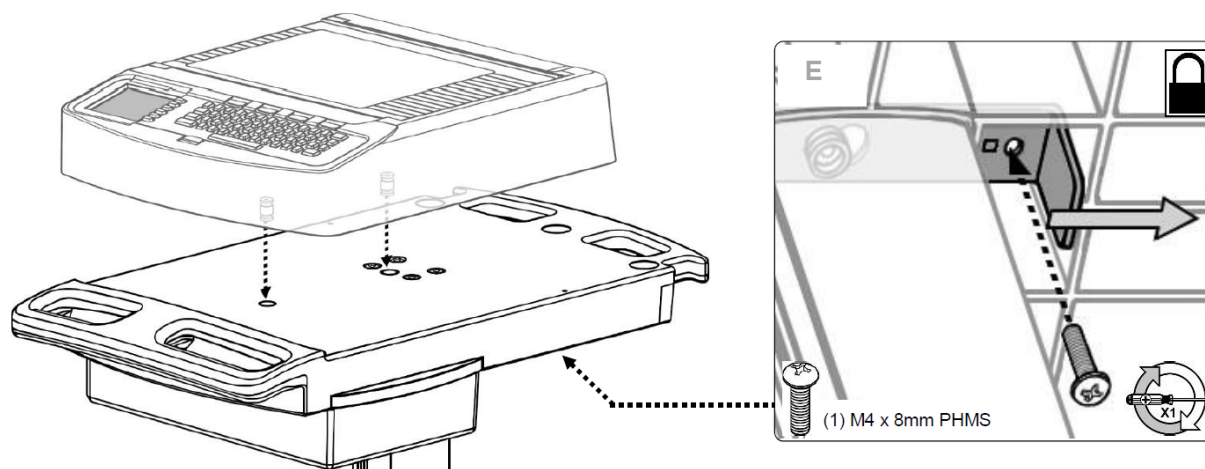
Removal of the Unit from Cart

For early model transport carts, remove the two thumbscrews from underneath the cart platform by turning counterclockwise. *Cart may not be exact model as pictured.



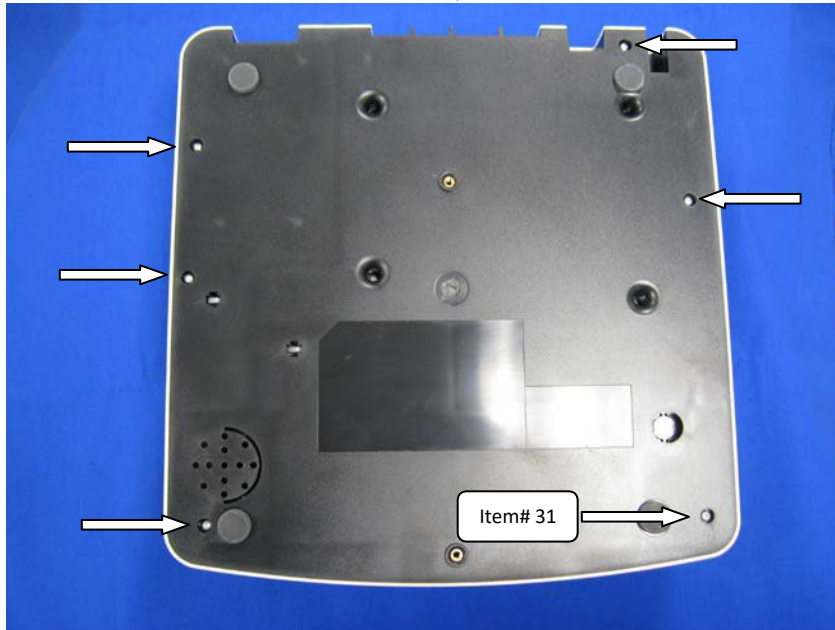
When the newer Universal ECG Cart is being used, the cardiograph can be disconnected from the cart by removing the lever retention screw and sliding the locking lever as shown below.

D



Cover Assembly Removal

1. Turn the unit upside down and use a T10 **Torx** driver to remove the 6 housing screws shown below.
2. Once the screws are removed, carefully flip the device back over so that it is upright.



3. Open the writer drawer then lift the upper housing while rotating it counterclockwise according to the picture below. This will allow the writer cover to pass through the housing opening to free the upper housing.



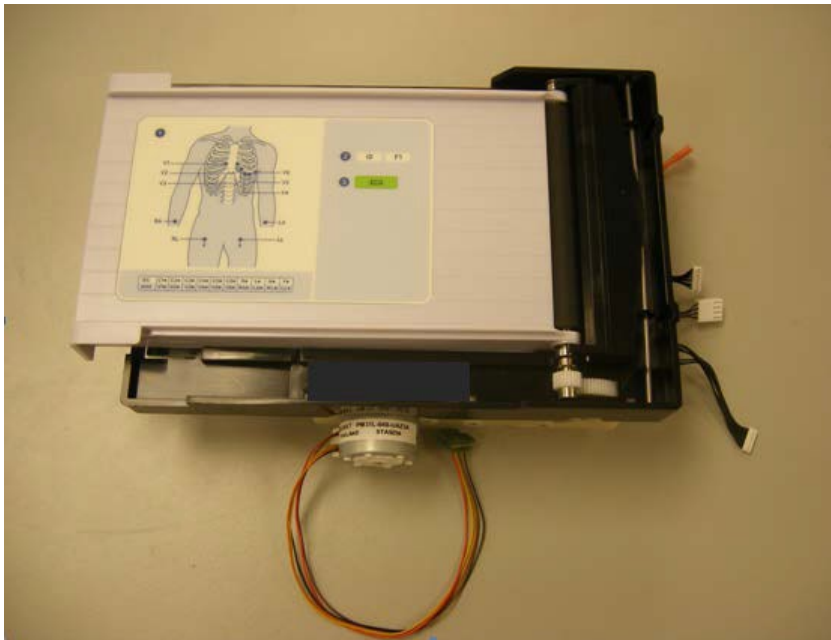
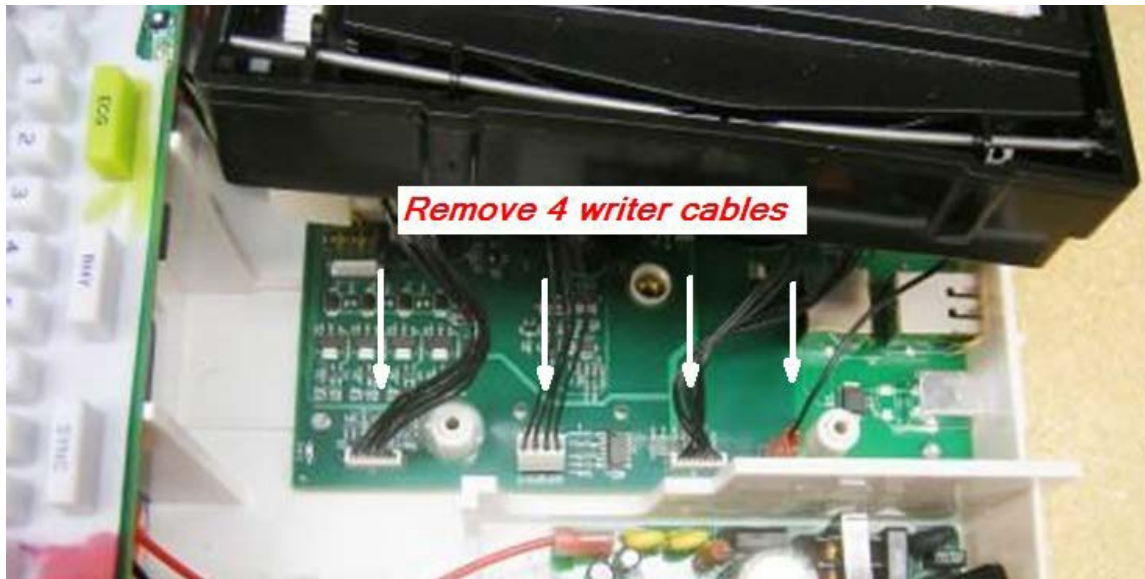
CAUTION: Remove battery power to the unit by disconnecting the battery connector **BEFORE** removing the keyboard assembly. If battery power is not removed prior to disconnecting the keyboard cable, damage to the motherboard may result.

Writer Removal

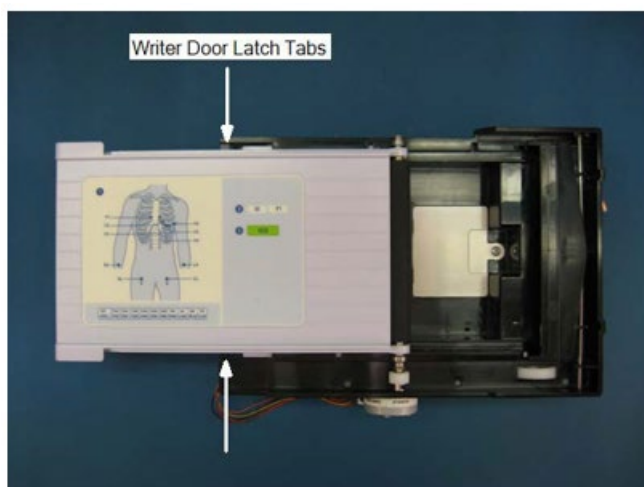
1. To remove the writer assembly, remove the 4 chassis screws shown below.
2. Once they are removed, carefully turn the unit over supporting the loose writer to ensure the cable connections are not stressed during the process.



3. Disconnect the writer interface cables and the motor cable shown below, then remove the writer assembly.



NOTE: The writer assembly can be obtained as a complete assembly for service purposes, or a specific part or subassembly can be obtained to repair a specific writer related issue. The entire writer door with the platen roller, latch assembly, and instruction label attached is available as an assembly; and the thermal print head, print head mount, anti-static brush, and associated cables are also available as an assembly. (Refer to the SERV ASSY item numbers on the item listing at the end of this section of the manual).

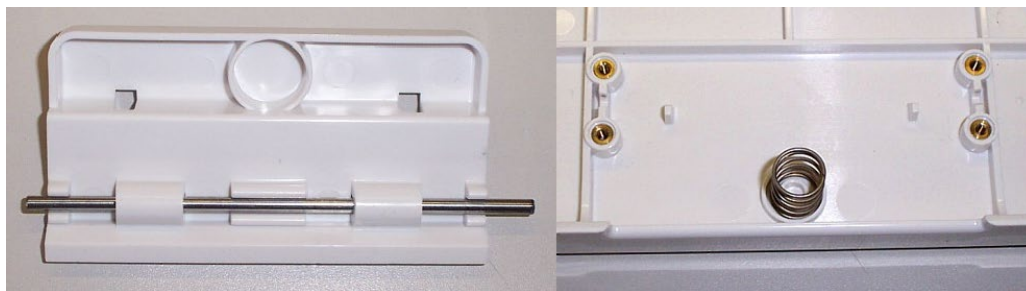


4. To remove the writer door assembly, slide the door open and press downward on the latching tabs to allow the writer door assembly to be slid out.

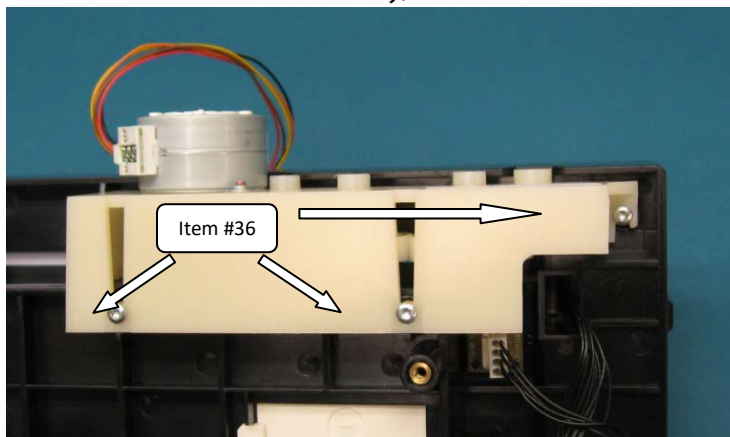
5. The writer latch mechanism can be disassembled to gain access to the writer latch bar and spring by removing the 4 screws shown below.



View below with screws removed.



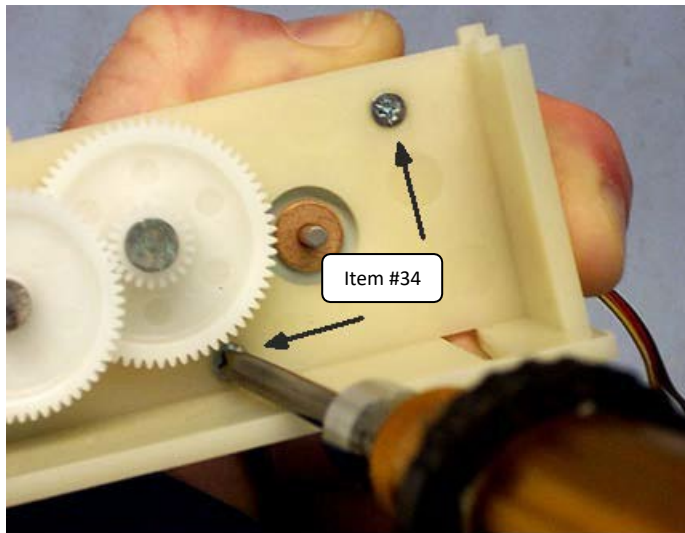
6. To remove the Gearbox assembly, remove the three screws as shown in the illustration below.





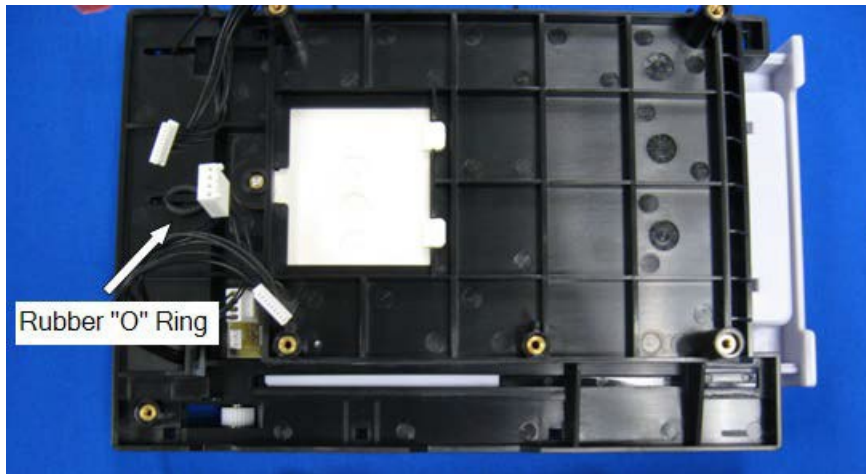
7. To remove the writer motor, the pinion gear must be removed by loosening the pinion set screw as shown above.

NOTE: The set screw is installed at the factory with a Vibra-Tite coating to prevent loosening due to vibration; ensure a coated set screw is used when reinstalling a new motor. The set screw should be tightened to a torque 3.5 pound inches to ensure a proper connection to the motor shaft.

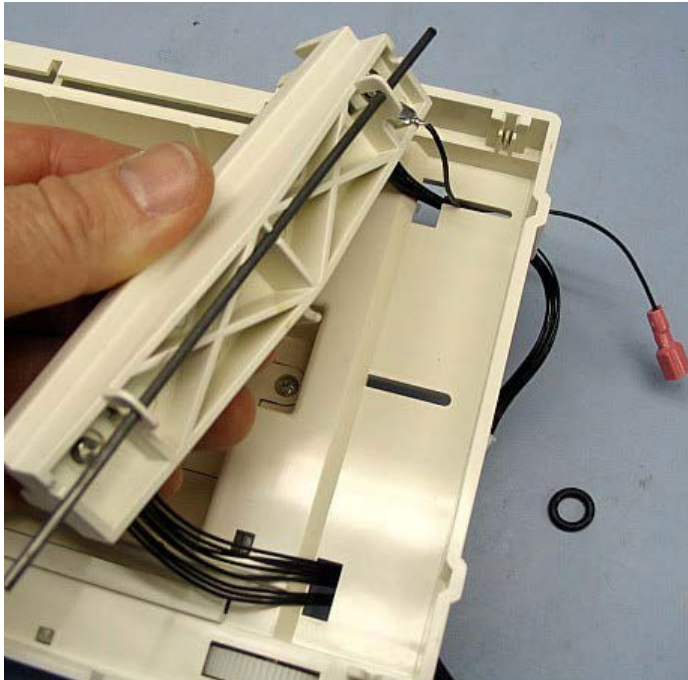


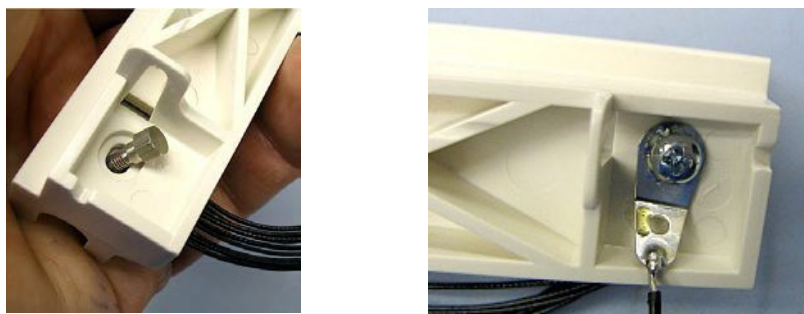
8. The motor can then be removed by the removal of the two mounting screws shown above (actual screws are **Torx** head for this product).

9. To remove the thermal print head assembly, remove the rubber O-ring as indicated in the illustration below.

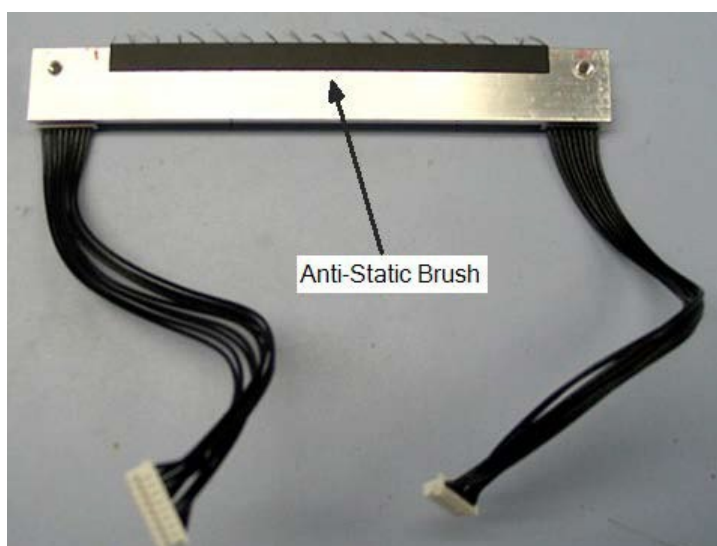


10. Next, flip the writer assembly over and lift the thermal print head assembly out, taking care to feed the wires through the writer base slots (shown below) as it is removed.





If the Print head assembly is disassembled further into the individual parts, care should be taken to re-torque the ground screw to 3.5 pound inches during reassembly; the shoulder screw can be tightened completely as it allows the Print head and mount to expand and contract when the device is exposed to abrupt temperature changes. When replacing the Print head, keep in mind that the anti-static brush is a separate item and cannot be reused from the old Print head.



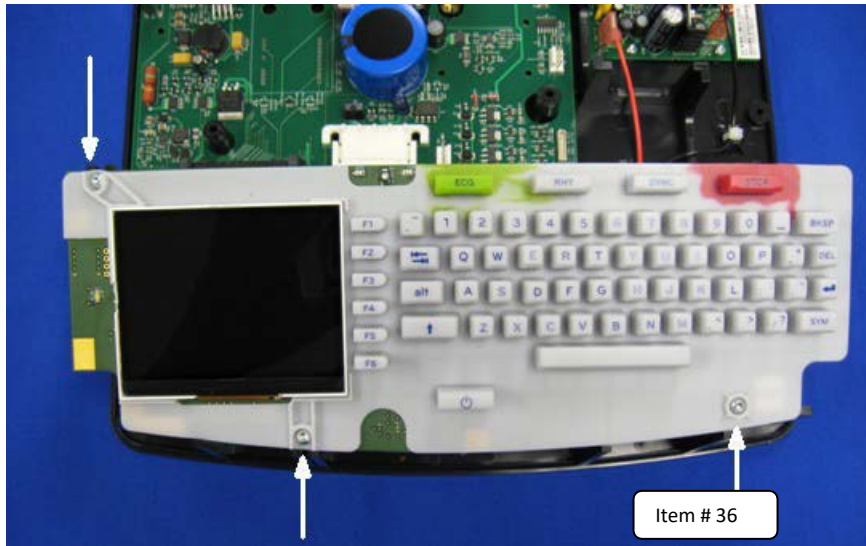
NOTE: When repairing units with symptoms of light or uneven print darkness, Baxter recommends that the entire Print head assembly be replaced to ensure the problem resolved completely. Slight variances in the shape of the Print head and/or the print head mount can result in the unit exhibiting these symptoms. Replacement of the entire assembly will ensure the problem is completely resolved. (Refer to the SERV ASSY item numbers on the item listing at the end of this section of the manual).

Keyboard Removal

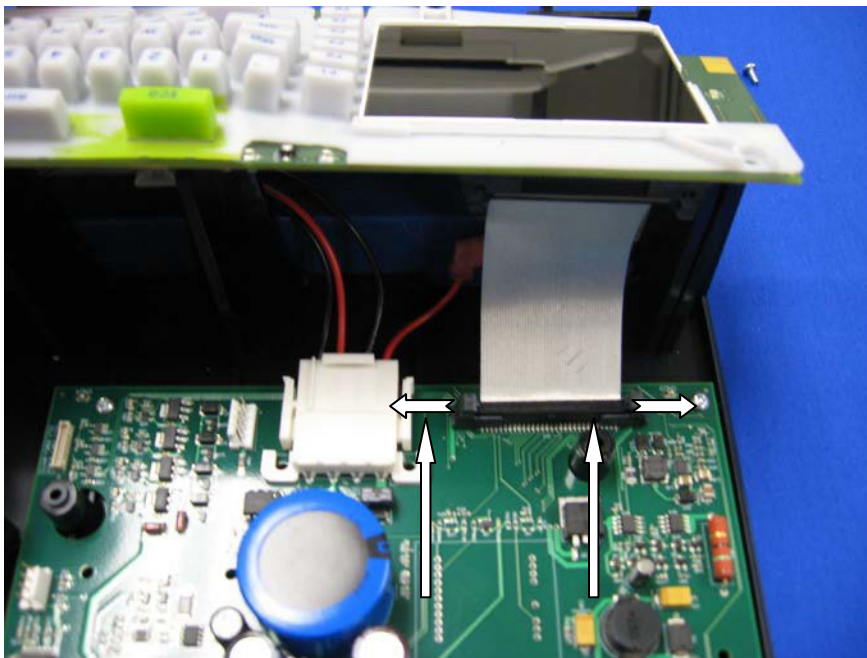


CAUTION: Remove battery power to the unit by disconnecting the battery connector BEFORE removing the keyboard assembly. If battery power is not removed prior to disconnecting the keyboard cable, damage to the motherboard may result.

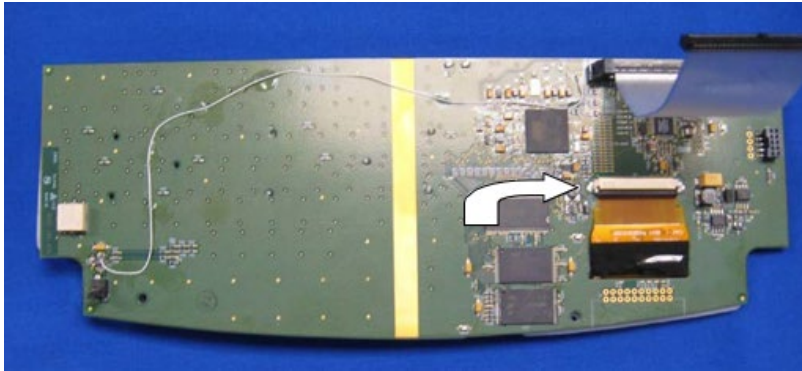
1. Remove the 3 keyboard mounting screws which fasten the keyboard to the unit's lower housing .



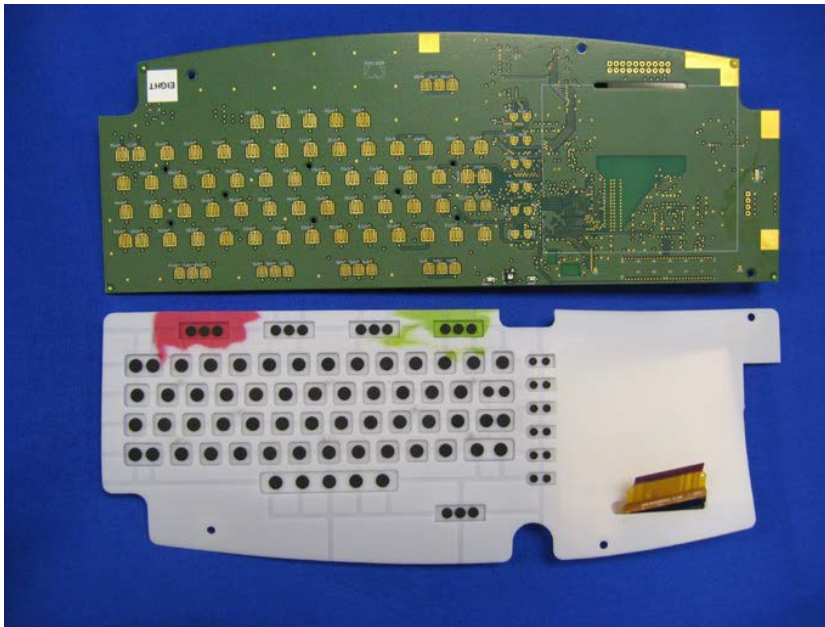
2. Next, press firmly and outward on the keypad connector hold-downs (as shown below) to release the keyboard ribbon cable; then remove the keypad assembly from the bottom housing.



3. To remove the LCD Display, use a small flat blade screwdriver to lift up the latch mechanism that holds the LCD ribbon cable into the connector; then slide the cable out of the connector. Be careful not to apply excessive force, as this connector mechanism is very small and fragile.



4. The rubber keypad and LCD can then be separated from the keyboard PCB assembly.



NOTE: When troubleshooting key press related issues, careful inspection and cleaning of the key pucks and PCB contacts should be performed prior to any electrical troubleshooting.

IMPORTANT: A new ELI 150c keypad was introduced for 4th edition compliance in 2020 that has compatibility requirements. Exchanging the identical part for servicing purposes is recommended, however if the older part (8359-003-50) is not available, the newer keypad (413252) can be used to service the older models. The older keypad cannot be used on the newer 4th edition compliant version. Refer to the table below for compatibility information.

Part number	Original version ELI 150c	4 th Edition Compliant ELI 150c
8359-003-50	Yes	No
413252	Yes	Yes

The visual difference between the two keypads is shown below, the new part has a portion removed.

8359-003-50

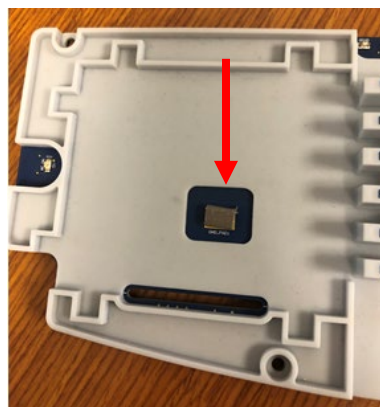


413252



ELI 150c 4th Edition gasket

When servicing an ELI 150c 4th edition device, there is also an additional item #92 used to reduce electromagnetic interference (EMI). When servicing the keyboard/keypad items, it may be necessary to replace the gasket material to ensure connectivity between the two surfaces. The gasket positioning is shown below.

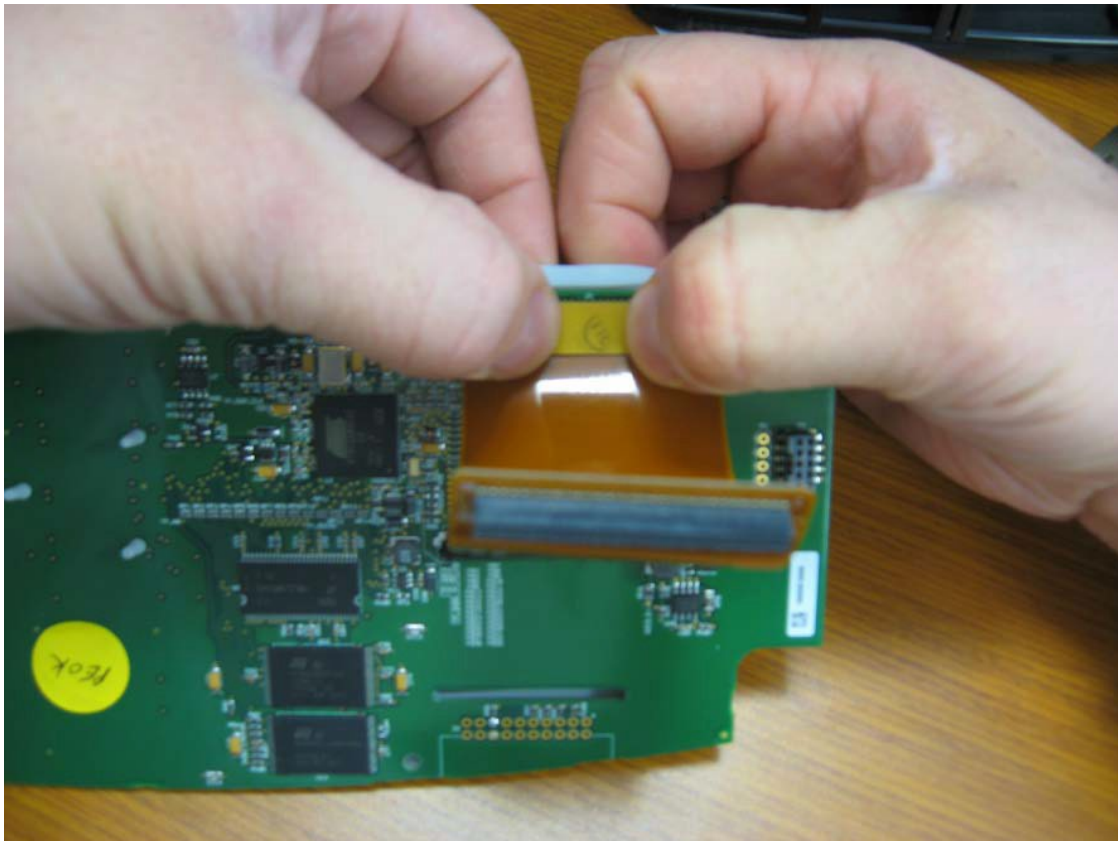


Remove the adhesive liner on the gasket, then mount the gasket to the pad within the cutout of the keypad.

Installation of the Ribbon Cable to the Keypad Assembly

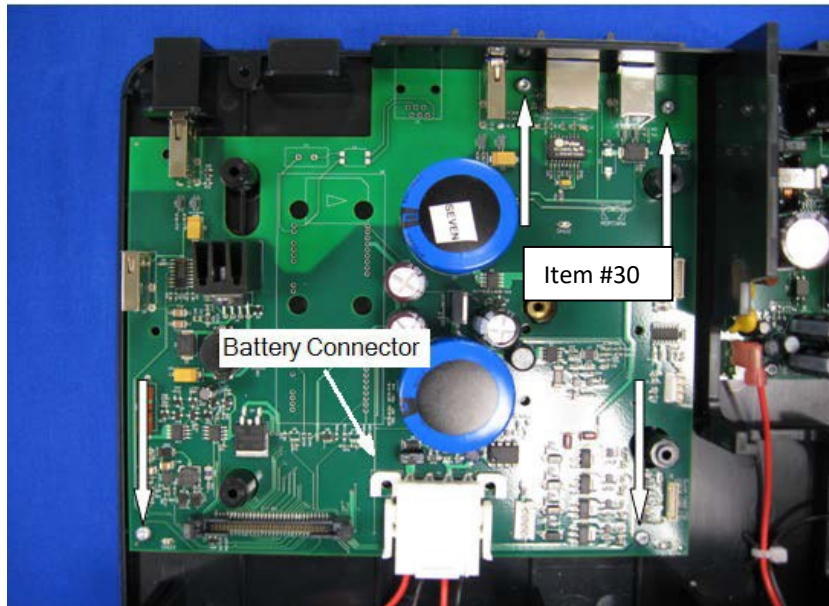
The Main Processor is located on the Keypad Motherboard. When installing the ribbon cable onto the circuit board, it is imperative to install using the following process. If care is not taken when pressing the ribbon cable into the connector, damage to the solder connections to the Ball Grid Array of the processor due to flexing of the printed circuit board assembly could occur.

1. To install, ensure that the cable connector is correctly aligned with the board connector.
2. Grasp the keypad side of the board with your forefingers, and press with equal pressure with both thumbs on the ribbon connector. Some force may be required to fully seat this connector. See picture below.



I/O Board Removal

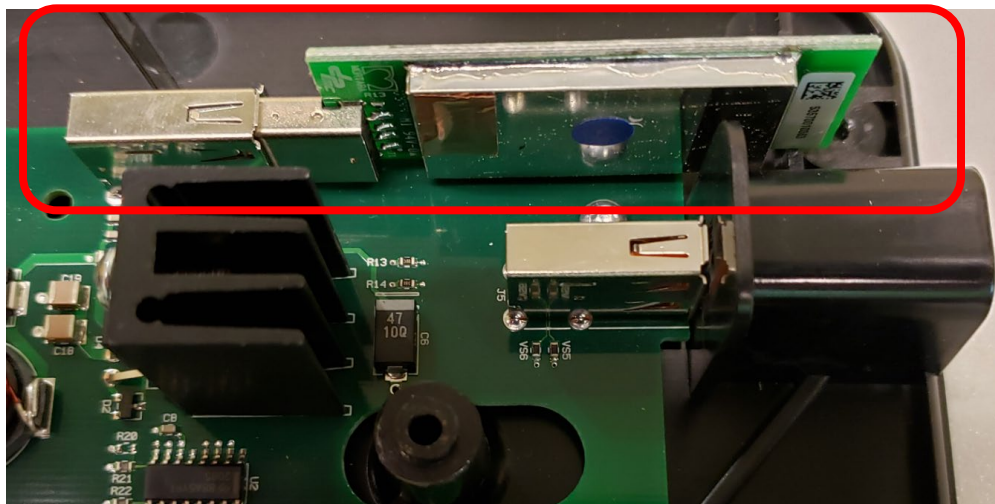
Be sure the battery connector is disconnected, then remove the four screws as shown in illustration below.



IMPORTANT: A new ELI 150c I/O Board was introduced for 4th edition compliance in 2020 that has compatibility requirements. Exchanging the identical part for servicing purposes is recommended, however if the older part (26025-105-15x) is not available, the newer I/O Board can be used to service the older models. The older I/O Board cannot be used on the newer 4th edition compliant version. Refer to the table below for compatibility information.

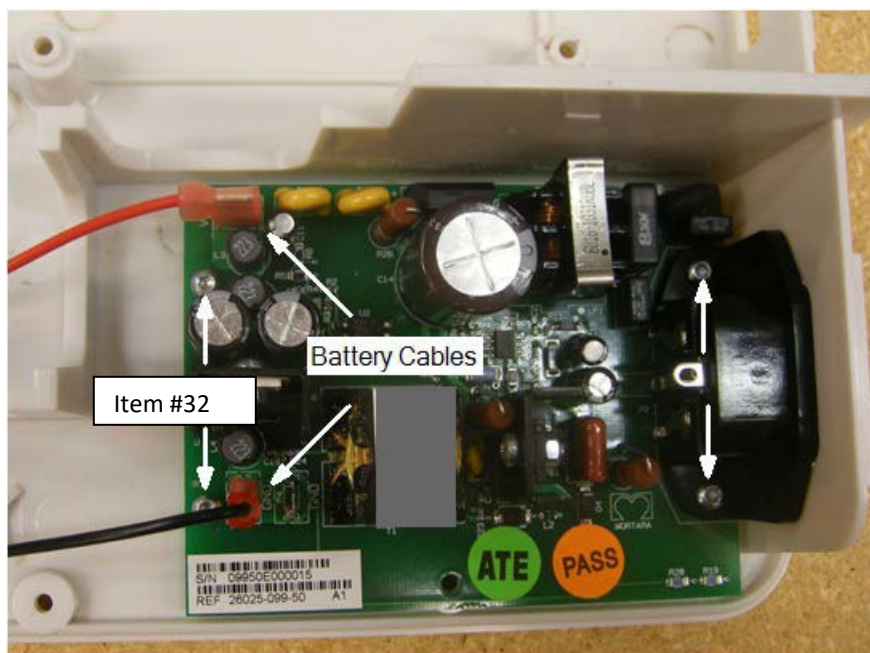
Part number	Original version ELI 150c	4 th Edition Compliant ELI 150c
26025-105-15x	Yes	No
26025-105-40x	Yes	Yes

If the unit is equipped with an optional Wireless Acquisition Module (**WAM**), the Universal Transceiver Key (UTK) will be inserted into the secondary USB connector and held in place by the plastic housing ensure it does not become dislodged (see image below). The UTK may need to be transferred to the new I/O board if replaced during servicing activity.



Refer to the Item Identification Table for the correct item (#90 a/b), as there are two versions of **WAM/UTK** pairs that must match (v1 to v1 or v2 to v2) for the wireless interface to operate properly. Units utilizing the v2 **UTK** will have a round "2" label (item # 91) near the ECG input connector on the housing.

To remove the Power Supply, disconnect the battery cables and then remove the 4 mounting screws as shown in illustration below.



IMPORTANT: A new **ELI 150c** Power Supply Board was introduced for 4th edition compliance in 2020 that has

compatibility requirements. Exchanging the identical part for servicing purposes is recommended, however if the older part (26025-099-151) is not available, the newer power supply board can be used to service the older models. The older PCBA cannot be used on the newer 4th edition compliant version. Refer to the table below for compatibility information.

Part number	Original version ELI 150c	4 th Edition Compliant ELI 150c
26025-099-151	Yes	No
26025-099-400	Yes	Yes

Battery Replacement

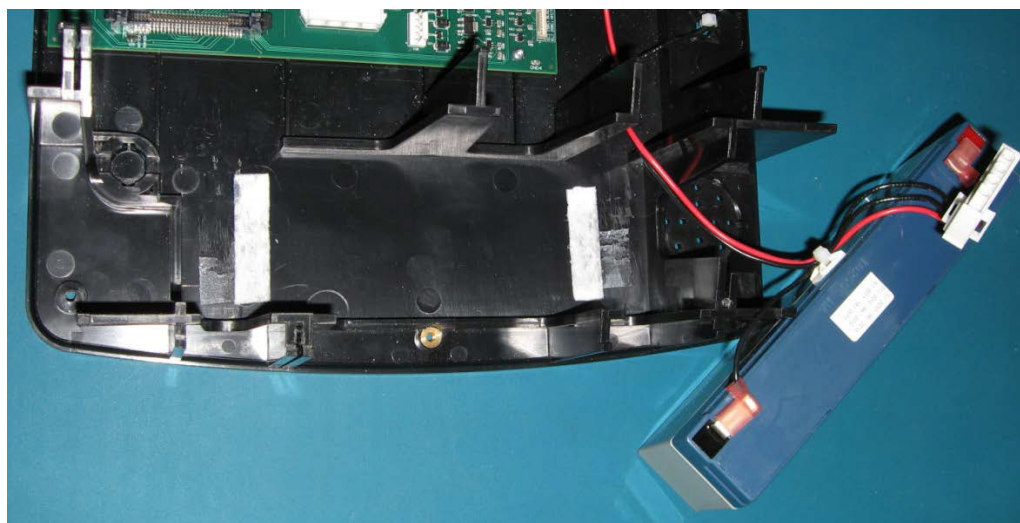


CAUTION: Be careful not to short the positive and negative terminals of the battery with a metal tool when removing the battery from the unit; as this could result in damage to the unit, or personal injury to the repair technician.

The battery is installed at the factory by adhering it to the lower housing with two pieces of double stick foam tape. To remove the battery, insert a small prying tool underneath the battery in the area shown below; then carefully lift the battery edge to separate the battery from the lower housing. Removal of the battery will require a fair amount of force, as the foam tape will typically tear in the center leaving the adhesive portions on the battery and lower housing.



The adhesive left on the lower housing (as shown below) will need to be removed with a small scraping tool prior to installation of the new battery.



NOTE: Baxter recommends that a battery assembly that includes the pre-mounted foam tape be obtained for battery replacements that are not performed in a Baxter Service Center. This will ensure that the battery is properly adhered to the lower housing to avoid it being dislodge during use, and will allow for proper removal for routine maintenance. (Refer to the SERV ASSY item numbers on the item listing at the end of this section of the manual).

Reassembly of the **ELI 150c** can be performed by reversing the sequence of the previous disassembly procedure.

When installing screws for all circuit boards, use a torque driver set to 3.5 in/lbs.

When installing screws for Upper Housing and Writer Assembly, use a torque driver set to 5.0 in/lbs. The items highlighted in grey that are listed in the **ELI 150c** item description listing identify the serviceable level of the device.

Some subcomponents of assemblies listed are not available as individual service items from Baxter, the assembly level item must be used for servicing purposes.

ELI 150c Item Description Listing

* Item has a software compatibility requirement.

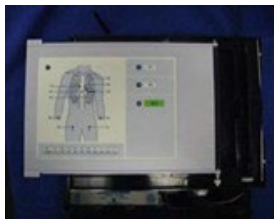
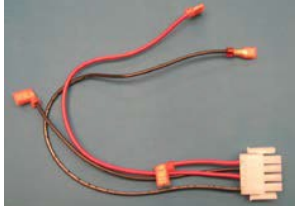
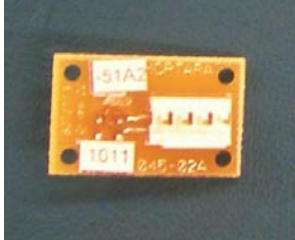
Item #	Part #	Description
1	22500-150-51	WRITER ASSEMBLY ELI /BUR 150c - NO LABEL (See Item # 74 for ELI or BUR label part number)
2	25018-034-50	CABLE ASSEMBLY ELI 200+ PRINthead TO PCB
3	25020-060-50	CABLE ASSY CUE SENSOR TO MTHRBD ELI 200+
4	25020-067-50	GROUND WIRE FOR ELI 230 PRINthead
5	25020-076-50	CABLE POWER INTERNAL ELI 150c

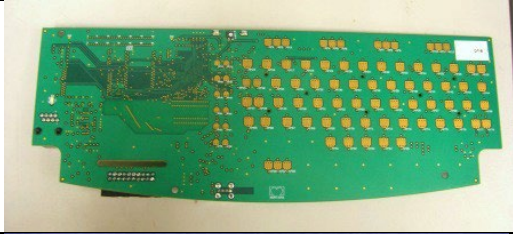
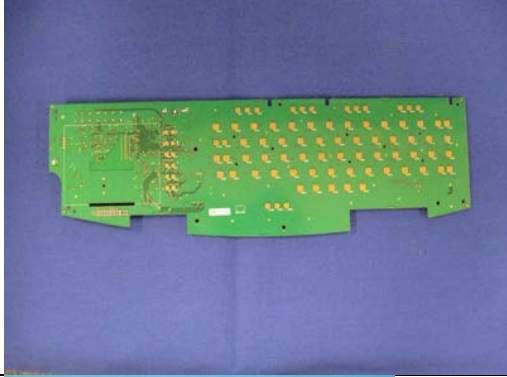
Item #	Part #	Description
6	26025-045-151	ELI 200+ CUE SENSOR PCB ASSEMBLY
7	26025-073-50	SIM SIMULATOR PCB ASSEMBLY
8	26025-074-50	REMOTE SIM CONNECTOR PCB ASSEMBLY
9	26025-077-200	B&B-N WLAN MODULE PCB ASSY
10	36025-102-150	ELI 150c KEYBOARD PCB ASSEMBLY -TESTED
11	36025-102-400 *	ELI150c KEYBOARD PCB ASSY 4 th ED-TESTED
12	26025-110-150	ELI 150c FLEX CABLE INTERCONNECT
13	3171-009	CABLE ASSY COAX 6" SMA-F BLKHD to MMCX-M
14	776992	CABLE COAX U.FL TO RP-SMA BLKHD 100mm
15	3225-003	CONN, MOD PHONE, 4 PIN, RA, LO PRO
16	3225-008	CONN RJ-45 8 PIN SHIELDED w/GREEN LEDS
17	3375-004	CONN USB RECEPTACLE TYPE B
18	3375-006	CONN USB RECEPT TYPE A UPRIGHT HIGH RET
19	3600-008	ANTENNA F1 900/1800 MHz HINGED RA
20	3600-009	ANTENNA F2 850/1900 MHz RIGHT ANGLE
21	3600-016	ANTENNA DUAL BAND 2400/5000 MHz
22	4027-001	FUSE POLY SWITCH TR 600V 150mA
23	4027-002	FUSE 1A 250V TIME LAG RADIAL 8x8.5x4mm
24	4027-003	FUSE 5A 250V TIME LAG RADIAL 8x8.5x4mm
25	4800-006	BATTERY RECHARGEABLE SLA 12V 2.2/2.3Ah
26	5400-019	LCD 3.5" TFT ACTIVE MATRIX 320 x 240
27	5450-005	PRINTHEAD THERMAL 108mm 4.25"
28	600-0515	COMMON MODE CHOKE 2A 4 PIN SM
29	6001-002-01	SCREW, SHOULDER HEX M3 x 0.5 STAINLESS
30	6020-060	SCREW THD-FORM PAN HD TORX 4-20x1/4"
31	6020-061	SCREW THD-FORM PAN HD TORX 4-20x1/2"
32	6020-062	SCREW THD-FORM PAN HD TORX 4-20x3/8"
33	6020-430-02	SCREW PHILLIPS PAN HEAD M3 X 6mm COATED
34	6020-735-02	SCREW FLAT HD TORX M3 x 6 COATED
35	6020-835	SCREW PAN HD TORX M3 x 8
36	6020-835-02	SCREW PAN HD TORX M3 x 8 COATED
37	6030-025	SET SCREW SOCKET M2.5 x 4
38	6100-004	WASHER, WAVE, .006/.030 x .18 x .25
39	6125-004	SPACER .19 x .25 x .125
40	6125-017	SPACER .19 X .25 X .063
41	6140-003	E-RING FOR 0.187 SHAFT ZN-PLATED STEEL
42	6141-003	O-RING BUNA-N 1/2 OD X 5/16 ID
43	6160-003	STANDOFF NYLON SNAP BOTH ENDS 0.062 BD
44	6320-003	FOOT BLACK .64 OD X .115 ADHESIVE
45	6520-003	BEARING BALL .1875ID SS
46	6545-007-01	MOTOR STEPPER PM 35mm 24V 40Ohm WINDINGS
47	6570-420-01	PLATEN / SHAFT 4.200 x 0.551 DIA
48	7400-019	TAPE POLYESTER FILM 1" X .05mm
49	7401-003	TAPE 2SIDED ADHESIVE 0.031 THK x.50 WIDE
50	7403-001	VIBRA-TITE 1oz
51	7480-090	BRUSH ANTI-STATIC 90mm FLEXIBLE
52	7495-001	CABLE TIE LOCKING 3.9 x .10
53	8342-004-52	GEAR BOX ELI 200+ IML/OPM
54	8342-008-02	LATCH RELEASE ELI 250c
55	8342-009-01	GEAR SPUR 22 TEETH WITH STAINLESS HUB
56	8342-018-01	BAR RELEASE PIVOT 3.950 X .118 DIA.
57	8342-019-01	SPRING COMPRESSION .5 OD X .85 L

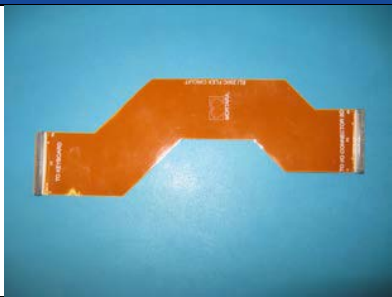
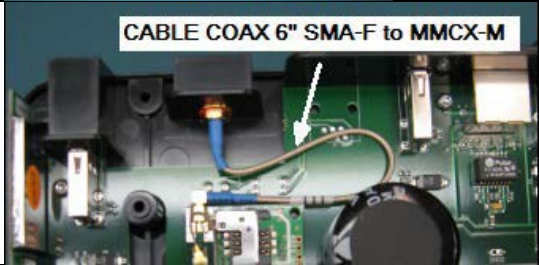
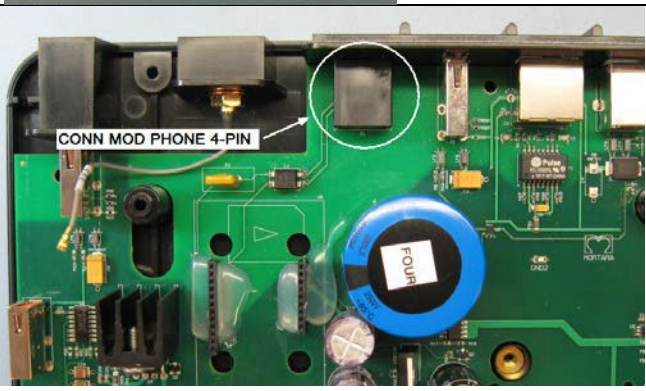
Item #	Part #	Description
58	8342-020-01	PIVOT BAR RESTRAINING PLATE
59	8347-004-51	PAPER TRAY ELI 150c
60	8347-005-51	PAPER TRAY COVER ELI 150c
61	8347-006-51	PRINthead MOUNT ELI 150c
62	8347-007-51	ACCESS COVER ELI 150c
63	8347-009-50	SPRING BAR 6.1 x 0.093 DIA
64	8359-001-50	HOUSING UPPER ELI 150c
65	8359-002-50	HOUSING LOWER ELI 150c
66	8359-003-50	KEYPAD ELASTOMERIC ELI 150c UNIVERSAL
67	413252	KEYPAD ELASTOMERIC ELI 150c 4 th ED
68	8359-004-51	LCD BEZEL ELI /BUR 150c
69	9025-049-02	LABEL ELI 2XX MULTITECH MODEM ID
70	9042-073-01	LABEL ELI 150c USER INSTRUCTIONS
	9042-073-02	LABEL BUR 150c USER INSTRUCTIONS BURDICK
	9042-073-12	LABEL BUR 150c USER INST BURDCK/McKESSON
71	9050-059-06	LABEL REG WLAN DPAC-G2
	9050-059-09	LABEL REG WLAN QUATECH-G2 LABEL REG
	777190	WLAN B&B
72	9050-059-07	LABEL REGULATORY UTK
73	421718	LABEL ELI 150c NAMEPLATE
	421730	LABEL ELI 150c INMETRO NAMEPLATE LABEL ELI 150c
	421719	NAMEPLATE McKESSON
74	9910-017	MODEM MULTITECH MT5600 V.92 5V SERIAL
75	26025-099-151	AC POWER SUPPLY 16VDC PCB ASSY w/UL
76	26025-099-400	AC POWER SUP 16VDC wUL_4THED
77	26025-105-151	ELI 150c/250c I/O CONNECTOR PCB ASSEMBLY w/o COMM
	26025-105-152	ELI 150c/250c I/O CONNECTOR PCB ASSY w/MODEM
	26025-105-154	ELI 150c/250c I/O CONNECTOR PCB ASSY w/LAN+WLAN
78	26025-105-400	ELI 150c/250c I/O CONN PCB ASSY w/o COM
	26025-105-401	ELI 150c/250c I/O CONN PCB ASSY w/MODEM
	26025-105-410	ELI 150c/250c I/O CON PCB ASSY w/LAN+WLAN
79	SERV-ASSY-177-01	BATTERY 12V 2.2/2.3Ah WITH FOAM TAPE
80	SERV-ASSY-177-02	ELI /BUR 150C WRITER LID ASSEMBLY – NO LABEL (See Item # 74 for ELI or BUR label part number)
81	41000-028-53	ELI 150C PRINthead ASSEMBLY
82	26025-092-151	USB TRANSCEIVER KEY (UTK) ASSEMBLY v1.x
83	26025-092-404	UTK w/Software v2.x
84	728940	v2 UTK Label for Cardiographs
85	728427	Gasket EMI Foam 3mm H x 0.33" L

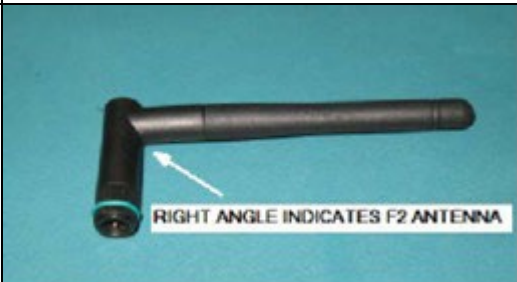
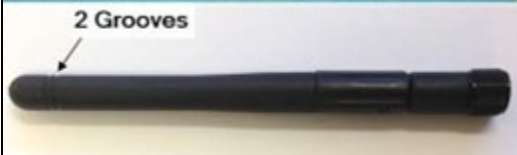
ELI 150c Item Identification Table

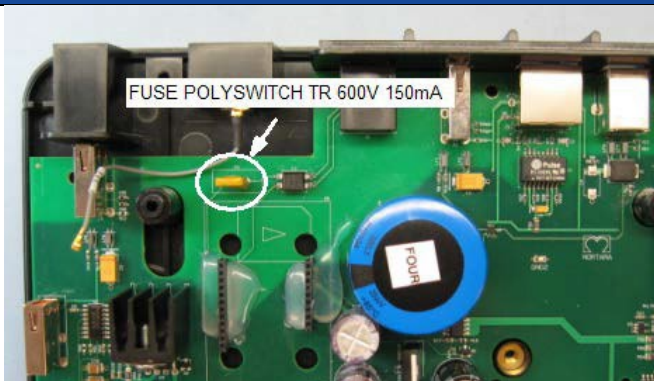
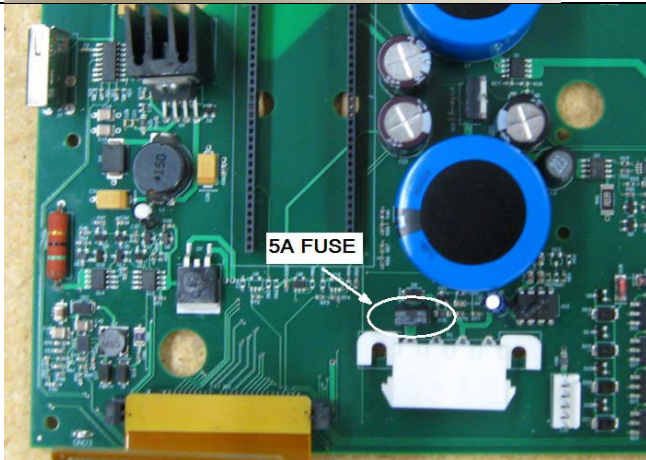
Item numbers below 100 are also used with the ELI 150c.
The item ID table below is sorted by part #.

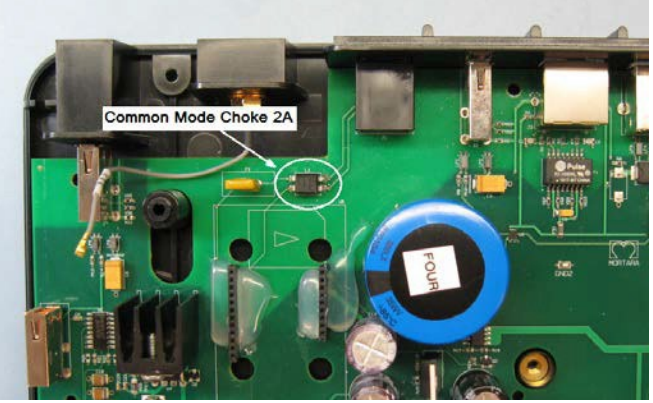
Item #	Part #	Picture	
1	22500-150-51		(Label not included)
101	22500-250-50		(Label not included)
2	25018-034-50		
3	25020-060-50		
4	25020-067-50		
5	25020-076-50		
6	26025-045-151		
7	26025-073-50		

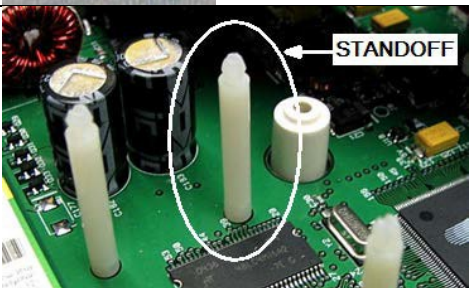
Item #	Part #	Picture
8	26025-074-50	 A green printed circuit board (PCB) with a central SIM card slot. A white label at the top reads "REMOTE SIM CONNECTOR PCB". A white circle highlights the SIM slot area. Various electronic components like capacitors and connectors are visible on the board.
9	26025-077-200	 A black rectangular radio module with a green PCB on top. A white label on the green PCB contains technical specifications and a barcode.
	776546 (radio only)	 A black rectangular radio module with a green PCB on top. A white label on the green PCB contains technical specifications and a barcode.
10	36025-102-150	 A green printed circuit board (PCB) with numerous gold-plated pins along one edge. It has various electronic components and a small white label.
107	36025-108-150	 A green printed circuit board (PCB) with numerous gold-plated pins along one edge. It has various electronic components and a small white label.
11	26025-110-150	 An orange printed circuit board (PCB) with gold-plated pins on both long edges. It has a white label in the center with the "samtec" logo and part number "90P-198435-02-MA".

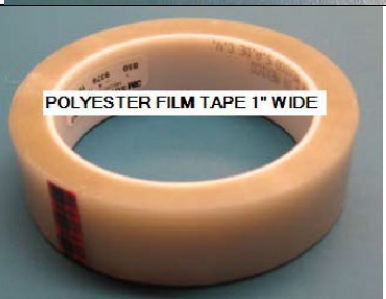
Item #	Part #	Picture
128	26025-111-150	
12	3171-009	
13	776992	
14	3225-003	
15	3225-008	

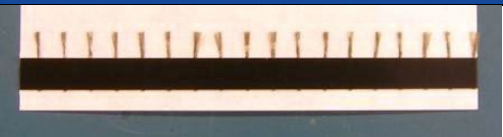
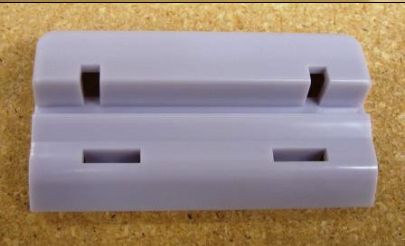
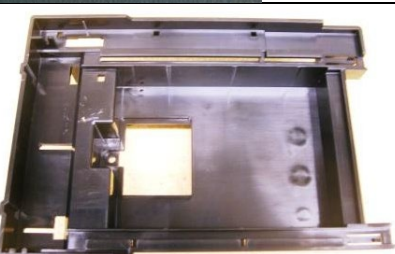
Item #	Part #	Picture
16	3375-004	
17	3375-006	
18	3600-008	
19	3600-009	
20	3600-016	

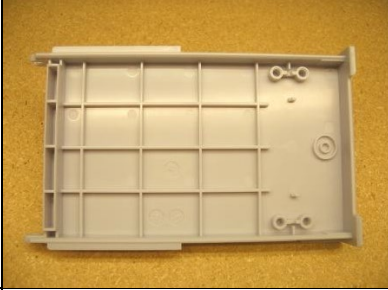
Item #	Part #	Picture
21	4027-001	
22	4027-002	
23	4027-003	
24	4800-006	
25	5400-019	

Item #	Part #	Picture
108	5450-004	
26	5450-005	
28	600-0515	
29	6001-002-01	
30	6020-060	
31	6020-061	
32	6020-062	
33	6020-430-02	
34	6020-735-02	
35	6020-835	

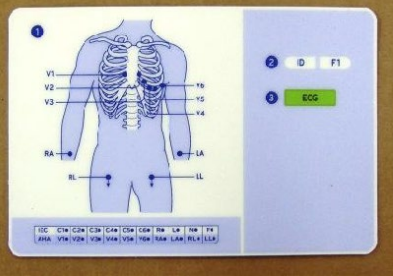
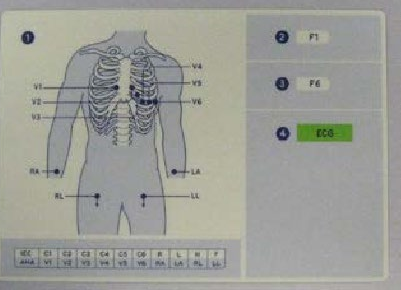
Item #	Part #	Picture
36	6020-835-02	
37	6030-025	
38	6100-004	
39	6125-004	
40	6125-017	
41	6140-003	
42	6141-003	
43	6160-003	

Item #	Part #	Picture
44	6320-003	
45	6520-003	
46	6545-007-01	
47	6570-420-01	
48	7400-019	
49	7401-003	
50	7403-001	

Item #	Part #	Picture
51	7480-090	
52	7495-001	
58 114	8342-004-52 8342-004-53	
59	8342-008-02	
60	8342-009-01	
61	8342-018-01	
62	8342-019-01	
63	8342-020-01	
64	8347-004-51	

Item #	Part #	Picture
65	8347-005-51	
66	8347-006-51	
67	8347-007-51	
68	8347-009-50	
69	8359-001-50	

Item #	Part #	Picture
70	8359-002-50	
71	8359-003-50	
71b	413252	
72	8359-004-51	
119	8360-001-50	
120	8360-002-50	

Item #	Part #	Picture
121	8360-003-50	
73	9025-049-02	Modem: MULTITECH MT5600SMI-92 56K Global FCC Tested to Comply with FCC Standards. FOR HOME OR OFFICE USE. Complies with Part 68 of FCC Regulations. FCC Reg: AU7USA-46014-MD-E REN 0.1B CANADA IC: 125 11142A CLASS/CLASSE (B) 
74	9042-073-01 (ELI) 9042-073-02 (BUR) 9042-073-12 (MLBUR)	
122	9042-074-01 (ELI) 9042-074-02 (BUR)	
75	9050-059-05	GSM Modem: MULTITECH SYSTEMS, INC. Model: MTSMC-G-F4 C€ 0682 FCC ID: AU792U07A31817 IC: 125A-0027 This device complies with Part 15 of the FCC rules and does not exceed the Class A limits for radio noise emissions for digital apparatus as set out in the Industry Canada standard ICES-003. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received including interference that may cause undesired operation.

Item #	Part #	Picture
76	9050-059-06	Wireless LAN Module: QUATECH, INC. Model: WLNG-AN-MR501 FCC ID: F4AWLNG1 IC: 3913A-WLNG1 This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received including interference that may cause undesired operation.
76	9050-059-09	Wireless LAN Module: QUATECH, INC. Model: WLNG-AN-MR551 FCC ID: F4AWLNG551 IC: 3913A-WLNG551 This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received including interference that may cause undesired operation.
76	777190	Model: BB-WLNNA-AN-MR551 Contains FCC ID: M82-BB-WLNNA Contains IC: 6100A-CM276NF 
77	9050-059-07	Internal Radio Model: UTK FCC ID: HJR-UTK2500 IC: 3758B-UTK2500 This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received including interference that may cause undesired operation.
78a	421718	Welch Allyn® ELI® 150C ELECTROCARDIOGRAPH Welch Allyn, Inc. 4341 State Street Road Skaneateles Falls, NY 13153 USA 100-240V ~ 50/60 Hz 110 VA # 901129 ELECTROCARDIOGRAPH EC REP Welch Allyn Limited Navan Business Park, Dublin Road, Navan, Co. Meath, C15 AW22 Ireland CLASSIFIED UL US E467322 CE 0459 MD Made in Mexico

Item #	Part #	Picture
78b	421719 (MLBUR)	
78c	421730 (INMETRO)	
79	9910-017	
81	26025-099-151	
82	26025-105-151 (w/o COMM) 26025-105-152 (w/MODEM) 26025-105-154 (w/LAN+WLAN)	Example: 26025-105-151

Item #	Part #	Picture
83	SERV-ASSY-177-01	
84	SERV-ASSY-177-02	 (Label not included)
85	41000-028-53	
92	728427	
125	SERV-ASSY-178-02	 (Label not included)
126	41000-028-52	

Conformance Testing

Conformance Testing

Conformance testing is to be performed by Authorized Baxter Service Representatives to verify the device is functioning correctly after repair operations have been performed. Testing results should be documented on the test data record (TDR) at the end of this section of the manual. Include the following printouts: Configuration page, Writer Test, ECG, and Noise Test.

Print the device configuration (attach to the Test Data Record (TDR)).

Power Testing

- Ensure battery is fully charged before performing these tests, voltage and current limits are based on a fully charged battery.
- Ensure there is no power connected to the UUT AC inlet.
- Remove upper housing and writer assembly. Disconnect battery by pulling battery cable off of the red terminal.

NOTE: Based upon customer usage and age of battery, replace as needed.

Note battery age (if possible)

This information can be found on the white “date code” sticker located on the battery (use the earliest date that is not crossed out). Record Date on TDR.

Battery (open circuit)

Measure battery voltage using a voltage meter; verify the meter reads greater than 12.5vdc. Record result on TDR.

Battery (load)

Measure the battery voltage using a volt meter and a power resistor load (10ohm, 20watt) in parallel with the battery. After approximately 5 seconds, verify the meter reads greater than 11.7vdc. Record result on TDR.

Off current

Connect a current meter in line with battery. With the UUT power off, verify the current meter reads less than 100 uA. Record result on TDR.

On current

Turn on the unit and verify the current meter reads less than 250 mA. Record result on TDR.

AC charging current

Apply AC power to the unit and verify that the current draw from the battery reverses polarity and the value starts decreasing as time increases. Record result on TDR.

Battery charger output voltage

Disconnect the current meter and measure the battery charger output voltage between the red disconnected battery cable and the negative terminal on the battery. It should read between 13.0vdc and

14.0vdc. Record result on TDR.

Verify all power cables are reconnected properly and reassemble unit.

Functional Testing

AC LED/Display

1. Connect AC power cord to the unit and verify that the green AC LED (located to the left of the display) illuminates continuous.

NOTE: The battery indicator will be clear when charging and will illuminate white when fully charged.

2. Turn the unit on and verify the text on display is clear and legible and there are no flickering or missing lines/pixels. Record result on TDR

Adjusting the Writer Cue Sensor

NOTE: This test should be performed with the AC power turned on. The test point, trim pot, and ground are found on the front, upper left on the keyboard (see picture below).

1. Install paper into the unit with the cue mark approx. 1 – 2 inches away from the tear bar. Make sure that the cue sensor is seeing white and not any markings on the paper.
2. Use a DMM to measure the DC voltage at test point (TP2/QSNS) on the keyboard with respect to ground (GND1). Adjust R1 V_ADJ on the keyboard to between 1.95 V-DC and 2.05 V-DC at test point P2. Set this as close to 2.0 V-DC as possible. Record result on TDR.
3. Perform either the Writer test or print a test ECG. The paper should cue to the next sheet of paper, print and then advance to the beginning of the next sheet of paper.
4. If the Writer test is performed the results should be compared with the test printout in this manual.



Writer

1. Open and close the writer door to verify smooth operation.
 - a. Verify that the door unlatches without sticking and that it latches completely.
2. From the main screen, simultaneously press shift+alt+RHY.
 - a. Verify that a test page is printed and the writer stops on the cue mark.
 - b. The perforation of the paper should line up with the tear edge on the writer.
 - c. Assure there are no gaps in the printing and the print darkness is uniform across the entire page.
 - d. Verify the writer gears do not skip and paper is tracking properly (you may need to print multiple pages to observe this).
3. Record result on TDR.

ECG & Keyboard Matrix

1. Connect an ECG simulator to the **AM12** or **WAM** patient interface.
2. Set the simulator to a known heart rate and amplitude.
3. Press the ECG key to capture an ECG.
 - a. Verify there is an audible beep with each key press.
4. Enter Last name "PARCFL8" (Note: "PARCFL8" ensures the keyboard matrix is fully tested), then press F6 (Done).
 - a. Verify that 12 ECG traces print correctly and assess the printout quality. Ensure uniform darkness across entire printout.
5. Record result on TDR

ECG Noise Test

1. Connect a Shorting Block (TF-0063) and adapter or equivalent to the **AM12** or **WAM** patient interface.
2. Set the ECG gain on the unit to 20mm/mV.
3. Print a rhythm strip (approx. 1 page).
 - a. Verify that no channels have more than 0.5mm of noise as measured by using Baxter thermal paper (Smallest grid line = 1mm).
4. Record result on TDR.

Lead Failure Test

1. Connect an **AM12** or **WAM** patient cable to the patient input of the unit, with the other end connected to a lead failure box (TF-0620 or equivalent) or patient simulator.
2. Using the lead fail box, momentarily press each push button to open the patient leads one at a time or disconnect one lead at a time from the simulator and verify the display indicates an open lead condition for the corresponding lead.
3. Record result on TDR

Lead Message

- Right Arm - LEADS OFF
- Left Arm - LA OFF
- Left Leg - LL OFF
- V1 - V1 OFF
- V2 - V2 OFF
- V3 - V3 OFF

- V4 - V4 OFF
- V5 - V5 OFF
- V6 - V6 OFF
- All Leads off - LEADS OFF

Communication Option Testing (as applicable)

The receiving station for modem, LAN and WLAN transmissions should be running Baxter **ELI** Link software. Refer to the **ELI** Link user manual for proper configuration. Verify successful transmission of all applicable communication options by acquiring ECG records that include the transmission method in the “Patient Name” field (such as Last Name = USB) then subsequently transmitting the ECG record stored to a compatible receiving device. Consult the product user manual if needed to properly configure the communication settings for each option present on the unit under test. Successful transmission of the test records can be verified by viewing the ECG records in the unit directory after transmission and confirming they are marked as “transmitted” (as defined in the product user manual). Record results on the TDR.

- Modem
- LAN
- WLAN
- USB host (USB memory device needed)
- USB

Device Cleaning

Clean unit per the instructions provided in the Maintenance & Cleaning section of the service manual.

Safety Testing

If the cardiograph housing was opened for repair or inspection work, the following safety tests should be performed in accordance with the IEC 60601 standards.

The **ELI** 150c is considered a Class 1 Type CF device, intended to only be utilized with the Baxter **AM12** or **WAM** patient input modules. Defibrillation isolation from the patient is provided by the patient input modules, which are tested separately as part of the manufacturing process (they are considered non-serviceable devices), therefore Hi-pot testing is not required for these cardiograph models.

- Earth Leakage
- Enclosure Leakage
 - Non-conductive (fully insulated) chassis testing should be performed utilizing 200 cm² conductive foil or equivalent, earth ground on AC input is utilized for functional earth (not safety grounding).
- Patient Leakage
 - Applied part – patient input (utilize Baxter **AM12** patient cable)
- Patient Auxiliary Current
 - Applied part – patient input (utilize Baxter **AM12** patient cable)

ELI 150c Test Data Record

Unit Serial #: _____

- ☐ Print device configuration (attach to this report)

Power Testing

Note Battery Age (If not possible enter N/A)	_____/____	(week/year)
Battery (Open Circuit) Voltage	_____ VDC	(>12.5vdc)
Battery (with Load) Voltage	_____ VDC	(>11.7vdc)
Off Current	_____ uA	(<100uA)
On Current	_____ mA	(<250mA)
AC Charging Current	PASS / FAIL	(Circle One)
Battery Charger Output Voltage	_____ VDC	(13.0-14.0vdc)

* Based upon customer usage and age of main battery, replace as needed.

- ☐ Verify all power cables are properly reconnected and reassemble unit

Functional testing

AC LED/Display Functionality	PASS / FAIL (Circle one)	Cue
Sensor Calibration _____ VDC (1.95-2.05VDC)	PASS / FAIL (Circle one)	Writer Test
	PASS / FAIL (Circle one)	
ECG & Keyboard Matrix Testing	PASS / FAIL (Circle one)	
ECG Noise Test	PASS / FAIL (Circle one)	
Lead Failure Test	PASS / FAIL (Circle one)	

Communication Option(s)

Modem	PASS / FAIL / NA	(Circle one)
LAN	PASS / FAIL / NA	(Circle one)
WLAN	PASS / FAIL / NA	(Circle one)
USB host	PASS / FAIL / NA	(Circle one)
USBD	PASS / FAIL / NA	(Circle one)

- ☐ Device Cleaning

Safety Testing PASS / FAIL (circle result)

Earth Leakage
Enclosure Leakage
Patient Leakage
Patient Auxiliary Current

Performed by: _____ Date: _____/_____/_____

ELI 150c Communication Options

Communication Options

The following Communications Options are available on the ELI150c:

- LAN
- WLAN
- Modem
- Transmission to USB Thumb-drive
- USB Mount to Windows PC (USB Device option)

Sync Media (in Settings menu):

The Sync Media can be set to the following: LAN + WLAN / WLAN + LAN

Sync Media will attempt a connection of the preferred method first, and if it fails or times out, will attempt the secondary mode of communication.

Communication Error Messages

DPAC Failure

This error message occurs if the DPAC fails initialization. This likely indicates a hardware problem preventing communication with the Module or a hardware problem with the Module itself.

Can't Connect to Access Point

This error message occurs if the module cannot associate with an access point. This likely indicates one of the following things: the Module's SSID is incorrect, no network with that SSID is available, the wrong security method is chosen, or the AP's configuration is incompatible with the Module.

DHCP Failure

This error message occurs if the Module failed to acquire an IP address via DHCP.

Can't Connect to Remote Link

This error message occurs if the module is able to communicate with the access point, but unable to establish a route through the network to communicate with the Remote Host. This error message may indicate the Remote Host is not ready to receive data. If the Remote Host appears to be ready, this message may indicate invalid entry of one of the following network parameters: IP address, Def. Gateway, Sub Net Mask, Host IP, or Port Number. It may also indicate that the correct security method was chosen but one or more of its required parameters were set incorrectly.

NOTE: It is possible that the Module can still transmit data with an incorrect gateway or subnet mask depending on the path through the network the data is being transmitted.

Communication Options (Software only)

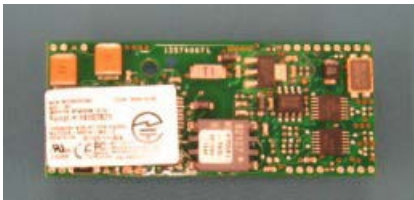
- LAN
- USB (USB Device option)

Communication Options (Hardware + Software)

WLAN



Modem



Shortcuts

Configure Transmit Media

- F6 (More)
- Shift/Alt/X
- Enter 'admin' password, Press Enter key

Directory Dump (To dump entire directory to USB thumb drive)

- F6 (More)
- F1/#1 (Directory of Stored ECG's)
- Shift/Alt/D

Appendix

More Information

For details on the following content, refer to the **ELI 150c** instructions for use at bax.to/docs.

- Product Overview
- Warranty Information
- Warnings and Cautions
- Equipment Symbols and Markings
- Electromagnetic Compatibility (EMC)
- System Settings
- Device Cleaning & Disinfecting
- Device Specifications
- Troubleshooting