IMPORTANT SAFETY INFORMATION

READ AND FOLLOW ALL INSTRUCTIONS.
This manual is for use by licensed electricians or trained pool professionals only. No other person is to install, service or troubleshoot the LM Series Chlorinators.

![WARNING]
Failure to heed the following warnings can result in permanent injury, electrocution or drowning.

ELECTRICAL HAZARD
- To reduce risk of electrical shock
  - Make sure all power to pool equipment area is off prior to any installation or removal of Clearwater components.
  - Replace damaged power pack cord immediately.
  - Do not bury cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers and other equipment.
- Severe shock or injury will likely occur as a result of a drill or drill cord coming in contact with water. Never allow electric drill or cord to come in contact with water. Only plug drill into a Class A (5 Milliampere Trip) protected Ground Fault Circuit Interrupter (GFCI) in accordance with the National Electrical Code Section 680 (USA only). Please see your drill owner’s manual for further safety precautions.
- Install the power pack at least 10 feet from the inside walls of a pool to prevent any possibility of the unit coming in contact with water.
- Your Clearwater Chlorinator has been designed with an electronic flow switch. This device automatically switches the chlorinator ‘OFF’ when the water through the cell stops. To prevent cell damage and personal injury, do not in any way interfere with this system which has been designed for your protection.

CHEMICAL USE HAZARD
- To avoid personal injury when working with pool chemicals, always wear rubber gloves and eye protection and work in a well-ventilated area. Use caution when choosing a location to open and use chemicals as they may damage any surface in which they come in contact.
- The addition of certain chemicals can reduce the effectiveness of chlorine. Always make sure that proper residual chlorine levels are maintained to avoid personal injury.
- This product manufactures chlorine. Individuals with any type of chlorine sensitivity should take the appropriate precautions to avoid injury or illness.

EQUIPMENT WATER PRESSURE HAZARD
- Always turn pump off prior to installing or removing any Clearwater cell. Your pump/filter system is operated under pressure and the pressure must be released before you begin work. Please see your pump/filter owner’s manual for further instructions.
- To avoid cell damage, water pressure in the cell must not exceed 29 psi (200kPa)

PREVENT CHILD INJURY AND DROWNING
- To reduce the risk of injury, do not permit children to operate this product.
- Do not let anyone, especially small children, sit, step, lean, or climb on any equipment installed as part of your pool’s operational system. Unless otherwise stated, ALL components of your pool’s operational system should be located at least 3 feet from the pool so children cannot use the equipment to gain access and be injured or drown.

![CAUTION]
Failure to heed the following warnings could cause damage to pool equipment or personal injury.

- Chlorinator must be installed and operated as specified.
- Scratching or bending plates in cell housing can reduce cell life.
- Power to the LM2 or LM3 should be turned off before unplugging the cell connectors to prevent cell damage and low voltage sparks.
- Keep the cell terminals protected with a light coating of silicone grease to allow for a positive electric connection. Use of any other type of grease may damage the terminal seals and ‘o’ rings. Do not immerse these terminals in acid wash solution, and avoid accidental contact with salt water.
- Water above the temperature of 104 degrees F (40 degrees C) flowing through the cell can cause plastic cell to discolor.
- Power pack must not be installed directly above any other heat source such as filter, pump or heater. It must be at least 1 Ft. (300 mm) from the ground to allow free circulation of air around it. It must not be installed in a closed box. If the power pack is to be installed on a post, then it must be centrally positioned on a flat panel of suitable waterproof material at least 10 inches (240mm) wide and 18 inches (440mm) high.
- Check the cell frequently to prevent the accumulation of pool debris that for any reason may have by-passed the pool filter.
Look /Feel

Before removing chlorinator cover, check the following:

1. Is the pool pump on?
2. Is the chlorinator turned on?
3. Do the indicator lights function? (If NO, see Output Lights pg. 8-9)

If all of the above answers are “YES”, there is no problem with the chlorinator. Have the consumer bring a water sample to their dealer for analysis.

4. Is the circuit breaker tripped? (see Circuit Breaker pg. 4)
5. LM2 - Is the output cord attached to the cell & the blue sensor wire attached to the sensor post on the cell? (see No Flow Light Is On pg. 10)
   LM3 - Is the plug cap attached to the cell?
6. Can you see the cell producing? (it looks like effervescence)
7. Is there calcium built-up on the cell? (see Calcium Build-up on Cell pg. 12)

After checking the above items:

1. Turn off power supply.
2. Remove chlorinator from wall if needed.
3. Remove screws (4) to remove cover and check the following:
   • Are there any visible burn marks?
   • Is there any visible water damage?
   • Are there any loose wires or screws?
Circuit Breaker

Reset Circuit Breaker
1. Turn off power supply.
2. Remove chlorinator from wall.
3. Find circuit breaker on bottom near power cord.
4. Push button in.
5. Replace chlorinator on wall.
6. Turn on power supply.

Replace Circuit Breaker
1. Disconnect power supply.
2. Remove chlorinator from wall.
3. Remove 4 screws to remove cover.
4. Disconnect ribbon wire connector from power PCB and set cover aside.
5. Remove 2 push-on wire connectors from back of circuit breaker.
6. Use pliers to squeeze base of circuit breaker and push through hole from the inside.
7. Push new circuit breaker through hole from the outside till it snaps in place.
8. Reconnect 2 push-on wires to back of circuit breaker.
9. Reconnect ribbon wire connector to power PCB.
10. Replace cover with 4 screws.
11. Replace chlorinator on wall.
12. Connect power supply.

Power Cord

Power Cord Replacement
1. Disconnect power cord from power source.
2. Remove chlorinator from wall.
3. Remove 4 screws to remove cover.
4. Disconnect ribbon wire connector from power PCB and set cover aside.
5. Remove 3 Push-on wire connectors and unscrew ground wire from back.
6. Use pliers to squeeze base of power cord holder and push through hole from the inside.
7. Unclip power cord holder and transfer to new power cord.
8. Push power cord holder with new power cord through hole from the outside till it snaps in place.
9. Reconnect 3 push-on wire connectors and screw ground wire to back.
10. Reconnect ribbon wire connector to power PCB.
11. Replace cover with 4 screws.
12. Replace chlorinator on wall.
13. Connect power cord to power source.
Testing Power Path

1. Turn off power supply.
2. Remove chlorinator from wall.
3. Remove 4 screws to remove cover (support cover and leave ribbon wire connected to power PCB).
4. Turn on power supply.
5. Use multimeter set on AC volts to test between A & B.

Results = 220V?

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit receiving power – continue testing.</td>
<td>Have qualified electrician rewire chlorinator to 220V or determine why no voltage.</td>
</tr>
</tbody>
</table>

6. Test between A & C = 220V?

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace circuit breaker. <em>(see Circuit Breaker pg. 4)</em></td>
<td></td>
</tr>
</tbody>
</table>

Transformer receiving power circuit breaker OK (continue testing).

7. Test between D&E and E&F

Results should be as printed on transformer *(this varies for different models)*.

*(Depending upon the type of transformer, this test may be done at the PC board.)*

Both tests read OK?

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
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</thead>
<tbody>
<tr>
<td>Transformer is good.</td>
<td>Replace transformer. <em>(see Transformer pg. 9)</em></td>
</tr>
</tbody>
</table>
Are there any lights visible?

YES

See pg. 8.

NO

Push **On / Off Button**
or turn on LM3 via controller

Is the resettable circuit breaker tripped?

YES

Reset circuit breaker.
*(see circuit breaker pg. 4)*

NO

Is there power at timer or switch?

YES

Refer customer to a qualified electrician to troubleshoot power source.

NO

Check for loose wires.

Trace power through transformer.
*(see Transformer pg. 9)*

Check touch pad PCB.
*(see Touch Pad PCB pg. 15)*

Replace power PCB.
*(see Power PCB pg. 17)*
No Chlorine Reading

Are there any lights visible?

- YES
- NO

See pg. 6.

Will the output lights go all the way up?

- YES
- NO

Chlorinator is working properly. Recommend to customer to have water sample checked by dealer.

1. Is salt level 4000 ppm?

- YES
- NO

Add salt according to chart in Owner's Manual.

2. Is unit wired 220V?

- YES
- NO

Have qualified electrician wire to 220V.

3. Does cell model / size match power pack?

- YES
- NO

Replace with correct cell.

4. The cell is nearing the end of its life. Replace cell.
Output Lights Will Not Go to 100%

Is salt level 4000 ppm or higher?

YES

Check there is 220V incoming power.

YES

Have qualified electrician rewire chlorinator to 220V.

NO

Add salt according to chart in Owner’s Manual.

NO

Is water temperature below 65° F?

YES

Add salt to compensate.

NO

Cell may be nearing the end of its life. Check cell age, run time & output setting. Replace cell. *(see Cell pg. 13)*

If unit is less than 1 year old check the following:

For LM3 Models

Insure LM3 is properly interfaced. *(see pg. 14)* Check output setting & run time of LM3 at controller remote pad. Increase as needed. If output and run time were adequate, disconnect communication wire at LM3 touchpad. LM3 now operates as a stand alone unit with the output buttons on the LM3 power pack controlling the operation.

Check touch pad PCB. *(see Touch Pad PCB pg. 15)*

Replace power PCB. *(see Power PCB pg. 17)*

Reconnect communication wire. Interface LM3 with controller. Adjust output and run time.
Output Lights Will Not Go Down

Is Chlorinator in super-chlorinate mode?

YES

Press super-chlorinate button once to take chlorinator out of super-chlorinate mode or adjust at controller remote.

NO

Check touch pad PCB.
(see touch pad PCB pg. 15)

Amber Output Light Blinking

Chlorinator is in a rest mode before it reverses polarity. Wait 5-10 minutes and check again.

OR

Press and hold service button (located under the “C” in CLEARWATER) to speed up the reversing process.
(see Reversing Polarity pg. 13)

Transformer

Testing
(see Testing Power Path pg. 5)

Replacement
1. Disconnect power supply.
2. Remove chlorinator from wall.
3. Remove 4 screws to remove cover.
4. Remove ribbon wire connector from power PCB and set cover aside.
5. Disconnect from the three white plastic terminals all wires that lead to the transformer (keep track of each wire location for reassembly).
6. Remove screw from the center of each 4-way terminal and pull the PCB to the side.
7. Remove the rivets holding the transformer in place.
9. Relocate PCB and both 4-way terminals to top of transformer and mount with screws.
10. Attach wires from new transformer to correct plastic terminals.
11. Attach ribbon wire connector.
12. Attach cover with 4 screws.
13. Replace chlorinator on wall.
14. Reconnect power supply.
No Flow Light Is On

Is the pump moving water?

Yes

Is the blue sensor wire attached and in good condition?

Yes

Repair / attach blue sensor wire end to sensor on cell.

No

There is a flow related problem with pool equipment. Disconnect sensor clip until pool equipment is repaired.

No

Is there a bubble exposing the sensor inside the cell?

Yes

Replace Power PCB. (See pg. 17)

No

There is a flow related problem with the equipment. Disconnect the sensor wire until pool equipment is repaired.
Add/Check Salt Light Is On

Is salt level 4000 ppm or higher?
- YES
  - Add salt according to chart in Owner’s Manual.
- NO
  - Is water below 65 deg. F?
    - YES
      - Test touch pad PCB. (see touch pad PCB pg. 15)
      - Cell is nearing end of life. Replace cell. (see Cell pg. 13)
      - Ignore light till water warms up.
    - NO
      - Raise salt level to compensate for cold water.

Note: The LM3 may have the check salt light on at low output. If salt levels and water temperature are acceptable ignore the light. This is due to the electronics in the board. Raise output and see if light goes off.

Add Salt Light, and 1 or 2 Green Output Lights Are On

Is salt level 4000 ppm or higher?
- YES
  - On new unit chlorinator is wired 110V. Have qualified electrician wire chlorinator to 220V.
  - Cell is nearing end of life. Replace cell. (see Cell pg. 13)
- NO
  - Add salt according to chart in Owner’s Manual.
Chlorine Reading too high

Do the output lights go up and down?

**YES**
- Reduce output setting.
- Reduce pump run time.
- Remove blue sensor wire from cell to stop production for longer than one day at a time.
  LM3 - Disconnect plug cap.

**NO**
- Check touch pad PCB.
  *(see Touch Pad PCB pg. 15)*

Calcium Build-up on Cell

Is chlorinator reversing polarity properly?

**YES**
- Check pH.
  *(per test kit instructions)*
- Check calcium hardness.
  *(per test kit instructions)*
- Clean cell manually.

**NO**
- Check touch pad PCB.
  *(see Power PCB pg. 17)*
- Replace power PCB.
  *(see Touch Pad PCB pg. 15)*

**Clean Cell** - Remove cell and turn over (ports up). For LM3, use a plastic vessel and only cover plates with solution. Use a solution of 10 parts water to 1 part muriatic acid (stronger solutions will damage the cell and void warranty). Pour solution into up-turned cell and let sizzle for several minutes. If scraping is needed, use a soft object like a popsicle stick (no metal). Repeat soaking as needed. Rinse with fresh water and replace cell.

**Note:** New plaster pools will have a continuous demand for acid for 6 months or more.
Reversing Polarity
1. With power on, be sure chlorinator is NOT in super-chlorinate mode.
2. Locate service button under the CLEARWATER Logo on LM2 model or above the “3” of LM3 logo.
3. Press and hold service button down.
4. You should hear a click and see the output lights flash once within 5 seconds (this indicates the polarity has reversed).
5. If it does not switch polarity, check touch pad PCB (see pg. 15) or Replace power PCB (see pg. 17).

Note: For LM3, if the chlorinator is interfaced with a controller, holding the service button down continuously for 20 seconds will alter the interface mode (see pg. 14).

Cell

Clean the Cell
CAUTION: Always wear rubber gloves & eye protection when handling muriatic acid. Always pour acid into water, NEVER water into acid. Sodium bicarbonate (baking soda) neutralizes muriatic acid.

1. Turn off pump.
2. Close any applicable valves.
3. Remove output wires and sensor wire from cell or disconnect the plug cap.
4. Unscrew unions and remove cell or unscrew lock ring and remove cell.
5. Use a solution of 10 parts water to 1 part muriatic acid (stronger solutions will damage the cell and void the warranty). Pour solution into up-turned cell and let sizzle for several minutes. If scraping is needed, use a soft object like a popsicle stick (no metal). Repeat soaking as needed.
6. Rinse with fresh water and reattach cell.
7. Place cell over unions and hand tighten.
8. Attach output wires (interchangeable) and sensor wire to cell.
9. Open any applicable valves.
10. Start pump and check for leaks.

Replace the Cell
1. Turn off pump.
2. Close any applicable valves.
3. Remove output wires and sensor wire from cell.
4. Unscrew unions and remove cell.
5. Lubricate o’rings in unions.
6. Place new cell over unions and hand tighten.
7. Attach output wires (interchangeable) and sensor wire to cell.
8. Open any applicable valves.
9. Start pump and check for leaks.
LM3 Interface Instructions

Remove the LM3 power pack cover and connect the 4-conductor communication wire to the “eos com” terminal block on the LM3 control PCB, mounted in the LM3 cover. The wiring configurations for various controllers are as shown below:

Note: The wiring configurations are the same for both Jandy revision ‘K’ and revision ‘L’ controllers.

Note: When connecting to the Jandy Aqualink RS controller with “Rev L” code the LM3 will appear in the settings menu as an “AquaPure” chlorinator.

Securing the Communications Wiring

Fit the communication wire into the slot beside the output cable cord grip and secure the communication wire to the Cell Output cable with cable ties.

Controller Interface

Because the LM3 chlorinator is capable of being connected to various controllers, it is necessary to select which controller the LM3 is to be connected to. This is done as follows:

1. Make a suitable cable connection.
2. Turn the power to the LM3 ‘ON’ via the controller.
3. Set the LM3 chlorine output to minimum (one Amber LED) via the OUTPUT button on the front panel.
4. Press the LM3 SERVICE button down for at least 20 seconds while observing the green SUPER CHLORINATE LED. The LED will flash momentarily, 1, 2 or 3 times, then will go out for approximately 5 seconds.
5. Continue to hold the SERVICE button down until the correct number of flashes for the controller being used is observed.

Controller Selection

<table>
<thead>
<tr>
<th>Controller:</th>
<th># of Flashes:</th>
<th>Off Time:</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLARIS Eos</td>
<td>1</td>
<td>Approximately 5 seconds</td>
</tr>
<tr>
<td>PENTAIR IntelliTouch</td>
<td>1</td>
<td>Approximately 5 seconds</td>
</tr>
<tr>
<td>JANDY AquaLink RS (rev K)</td>
<td>2</td>
<td>Approximately 5 seconds</td>
</tr>
<tr>
<td>JANDY AquaLink RS (rev L)</td>
<td>3</td>
<td>Approximately 5 seconds</td>
</tr>
</tbody>
</table>
After initialization for both the controller and the LM3, a software connection should have been made. A valid connection can be verified by observing the menu screen of the controller being used. If the chlorinator does not appear to have made a connection, try resetting both the LM3 and the controller.

When connected to a suitable controller the LM3 behaves as a “drone”, responding only to the controller, so NONE of the buttons on the LM3 will function.

**Controller Disconnection**

If the communication link between the controller and the LM3 is lost, the LM3 will continue operation as it was before the controller lost connection. The chlorinator will then behave as a “stand alone” unit until the controller is reconnected or the user changes the settings.

**Touch Pad PCB**

**Check / Replace**

1. Turn off power supply.
2. Remove chlorinator from wall.
3. Remove 4 screws to remove cover.
4. Disconnect ribbon wire connector from power PCB (do NOT remove touch pad PCB from cover at this time). If interfaced with controller remove communication wire.
5. Plug ribbon wire connector from new touch pad PCB into power PCB.
6. While holding edges of touch pad PCB, turn on power supply.
7. Push buttons and check all light functions.

Are all functions restored?

- **YES**
- **NO**

**Replace Touch Pad PCB**

1. Turn off power supply.
2. Disconnect ribbon wire connector of new touch pad PCB and set aside.
3. Remove 4 screws to remove touch pad PCB from cover.
4. Attach new touch pad PCB to cover with 4 screws.
5. Attach ribbon wire connector to power PCB. Attach communication wire if needed.
6. Replace cover with 4 screws.
7. Replace chlorinator on wall.
8. Turn on power supply.
9. Interface if needed.

**Note:** If unit functions properly after replacing touch pad, power PCB will NOT need to be replaced.

**LM3 Interfacing with Controller:** Reconnect wire and follow Interface Instructions on page 14.
PCB Replacement for the LM2-15 / LM3-15

When replacing a Clearwater LM2 or LM3 series PC board, please note that there is a difference between the models 15 and 24/40. The LM2-15 or LM3-15 can be identified by either the label or the serial number.

When repairing an LM2-15 or LM3-15, the PC board supplied in the LM repair kit is used but the shunt on the board must be changed. (The shunt limits the amount of current going to the cell. It can look like a U shaped wire or a ceramic block.)

After removing the failed PC board from the LM2-15 or LM3-15, disconnect the shunt from the failed board and exchange it with the shunt on the replacement board. This will insure the proper output for the unit.

For PC board replacement on the LM2-24/3-24 or the LM 2-40/3-40, use the PC board as is.
PCB Replacement for LM2-24/3-24 or 2-40/3-40

1. Disconnect power supply.
2. Remove chlorinator from wall.
3. Remove 4 screws to remove cover.
4. Remove ribbon wire connector from power PCB and set cover aside.
5. Remove 3 triac screws “A”, “B” and “C”. (IMPORTANT: Read pg. 18) Note that screw “C” has a special insulating washer and pad.
6. Disconnect ground clip.
7. Turn PCB mounts 90 degrees counter-clockwise.
8. Lift power PCB away without removing wires and fold back over transformer.
9. Press new power PCB onto PCB mounts and turn 90 degrees clockwise to lock in position.
10. Replace 3 triac Screws “A”, “B” and “C” and tighten securely (special insulating washer and pad on screw “C” MUST be in place).
11. Transfer wires one at a time to avoid misplacement.
12. Check to see if jumper is in place on new power PCB (if missing, use jumper from old PCB). Jumper pin eliminated on LM2 manufactured after 2003 and all LM3 models.
13. Reconnect ground clip.
15. Attach cover with 4 screws.
16. Replace chlorinator on wall.
17. Reconnect power supply.
18. Test all functions.
**Triac Screws**

The triac screws are the 3 screws at the base of the power PCB. It is imperative that these screws be tightened all the way. The triac tabs are used to transfer heat from the power PCB to the back panel of the chlorinator.

**If the triac screws are NOT tight, the power PCB will overheat and be damaged.**

It is also imperative to have screw “C” insulated with the special washer and pad. This special washer and pad insulates this triac tab while still allowing heat to transfer.

Note that screw “C” has an insulating pad and washer that MUST be replaced when the PC board is changed. These screws must be tight in order to dissipate heat from the board.
**LM2 Powerpack**

<table>
<thead>
<tr>
<th>No.</th>
<th>Part #</th>
<th>Description</th>
<th>No.</th>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>W000351</td>
<td>Screw</td>
<td>16</td>
<td>W052031</td>
<td>Transformer cables</td>
</tr>
<tr>
<td>2</td>
<td>W000131</td>
<td>Pop rivet</td>
<td>17</td>
<td>W000551</td>
<td>Washer s/proof</td>
</tr>
<tr>
<td>3</td>
<td>W000281</td>
<td>Washer s/proof</td>
<td>18</td>
<td>W000681</td>
<td>Earth screw</td>
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<tr>
<td>4</td>
<td>W001091</td>
<td>Black PCB standoff</td>
<td>19</td>
<td>W171911</td>
<td>LM2S control label</td>
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<td>5</td>
<td>W222091</td>
<td>LM2 Power PCB assy.</td>
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<td>W000021</td>
<td>Cord grip grommet</td>
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<td>6</td>
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<td>LM2S cover</td>
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<td>7</td>
<td>W171581</td>
<td>LM2 cover label</td>
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<td>W111071</td>
<td>Circuit breaker</td>
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<td>8</td>
<td>W000351</td>
<td>M3 x 8mm screw</td>
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<td>W193201</td>
<td>Output cable</td>
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<td>9</td>
<td>W171911</td>
<td>LM2S control label</td>
<td>24</td>
<td>W012161</td>
<td>Mains panel</td>
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<tr>
<td>10</td>
<td>W222111</td>
<td>LM2S control PCB</td>
<td>25</td>
<td>W051411</td>
<td>Input cable</td>
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<td>11</td>
<td>W00261</td>
<td>Washer s/proof</td>
<td>26</td>
<td>W051411</td>
<td>Input cable</td>
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<td>12</td>
<td>W000651</td>
<td>Insulation kit</td>
<td>27</td>
<td>W001161</td>
<td>Flat washers, transformer</td>
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<td>13</td>
<td>W130401</td>
<td>LM2-24 transformer</td>
<td>28</td>
<td>W050021</td>
<td>Heatshrink black</td>
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<td>14</td>
<td>W130421</td>
<td>LM2-40 transformer</td>
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<td>W051181</td>
<td>Heatshrink blue</td>
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<tr>
<td>15</td>
<td>W052021</td>
<td>Transformer cables</td>
<td>30</td>
<td>W140101</td>
<td>Sensor clip</td>
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<td>31</td>
<td>W082241</td>
<td>Filter PCB</td>
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**Cell Complete**

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<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>W200981</td>
<td>LM2-24 complete cell (Packed)</td>
</tr>
<tr>
<td>W200911</td>
<td>LM2-40 complete cell (Packed)</td>
</tr>
<tr>
<td>W040931</td>
<td>Union set</td>
</tr>
<tr>
<td>W050041</td>
<td>Heatshrink - black</td>
</tr>
<tr>
<td>W051081</td>
<td>Heatshrink - blue</td>
</tr>
</tbody>
</table>