

**Lifecycle Upright Bikes LC95, LC91, LC85, C9, C7, 95Ce, 95Ci, 93Ci, and 90C**  
**TROUBLESHOOTING GUIDE**

| <b>SYMPTOM</b>  | <b>PROBABLE CAUSE</b>                          | <b>CORRECTIVE ACTION</b>  |
|---|--|---|
| Display Console LEDs not illuminating   | Auto start not responding.                     | Check auto start not responding.  |
|   | Keypad not responding.                         | Test keypad in diagnostics.   |
|   | Insufficient battery voltage.                  | Check battery voltage. The LC9500, LC9100, and C9i have a 6VDC battery (non-alkaline) which should test at a minimum of 6.0 VDC. The LC8500, and C7 has a 9VDC alkaline battery and it should test at a minimum of 9.0 VDC. Replace battery if it fails to meet minimum requirements. |
|   | Loose wire connections.                        | Disconnect then reconnect connections.  |
|   | Worn or damaged wire harnesses.                | Inspect wire harnesses. Replace worn or damaged harness.  |
|   | Malfunctioning display console.                | Test with substitute display console. Replace malfunctioning display console.   |
|   | Malfunctioning alternator control board (ACB). | Test with substitute ACB. Replace malfunctioning ACB.   |
| Display console initializes then fails  | Loose wire connections.                        | Disconnect then secure connections.   |
|   | No RPM.  | Enter Diagnostic and check for RPM.   |
|   | Malfunctioning alternator.                     | Test alternator output or test with substitute alternator. Replace malfunctioning alternator. Refer to Alternator Voltage Test.   |
|   | Malfunctioning alternator control board.       | Test with substitute alternator control board. Replace malfunctioning board.  |
|   | Malfunctioning display console.                | Test with substitute display console. Replace malfunctioning display console.   |
|   | Worn or damaged wire harnesses.                | Inspect wire harnesses. Replace worn or damaged harness.  |
| No prompt upon release of START key. Entry of additional information not allowed. | Malfunctioning display console.                | Test with substitute display console. Replace malfunctioning display console.   |
|   | Battery drained.                               | Replace Battery with new one.   |

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|---|---|---|
| Display Console LEDs are not constant   | Pedaling to slowly                            | Pedal faster than 35 RPM.   |
|   | Insufficient battery voltage                  | Check battery voltage. The LC9500, LC9100, and C9i have a 6VDC battery (non-alkaline) which should test at a minimum of 6.0 VDC. The LC8500, and C7 has a 9VDC alkaline battery and it should test at a minimum of 9.0 VDC. Replace battery if it fails to meet minimum requirements. |
|   | Loose wire connections                        | Disconnect then reconnect connections.  |
|   | Worn or damaged wire harnesses                | Inspect wire harnesses. Replace worn or damaged harnesses.  |
|   | Malfunctioning Display Console                | Test with substitute Display Console. Replace malfunctioning Display Console.   |
|   | Malfunctioning Alternator Control Board       | Test with substitute Alternator Control Board. Replace malfunctioning board.  |
|   | Malfunctioning Alternator                     | Test Alternator output or test with substitute Alternator. Replace malfunctioning Alternator. Refer to Alternator Voltage Test.   |
| Display Console LEDs do not extinguish in timely manner at the end of a workout, when the CLEAR key is pressed, or when the pedaling stops. | Malfunctioning Alternator Control Board       | Test with substitute Alternator Control Board. Replace defective board.   |
|   | Malfunctioning Display Console                | Inspect for damage or depression at START key. Test with substitute Display Console. Replace malfunctioning Display Console.  |
| Prompt persistently flashes and entry of additional information is not allowed.   | Attempting to enter improper duration of time | Refer to Operation Manual for time duration requirements.   |
|   | Malfunctioning Display Console                | Test with substitute Display Console. Replace malfunctioning Display Console.   |
| Display Console keys (except START key) do not function and Exercise Bike does not respond.   | Attempting to enter program not available.    | Refer to Operation Manual for program availability.   |
|   | Malfunctioning Keypad                         | Test Keypad in Diagnostics.   |
|   | Malfunctioning Display Console                | Test with substitute Display Console. Replace malfunctioning Display Console.   |

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| Upon start of program, excessive resistance load is immediate; no normal, incremental increase from “no load.” | Insufficient battery voltage                  | Check battery voltage. The LC9500, LC9100, and C9i have a 6VDC battery (non-alkaline) which should test at a minimum of 6.0 VDC. The LC8500, and C7 has a 9VDC alkaline battery and it should test at a minimum of 9.0 VDC. Replace battery if it fails to meet minimum requirements. |
|  | Loose wire connections                        | Disconnect then, reconnect connections.   |
|  | Worn or damaged wire harnesses                | Inspect wire harnesses. Replace worn or damaged harness.  |
|  | Malfunctioning Display Console                | Test with substitute Display Console. Replace malfunctioning Display Console.   |
|  | Malfunctioning Alternator Control Board       | Test with substitute Alternator Control Board. Replace malfunctioning board.  |
|  | Malfunctioning Alternator                     | Test Alternator output or, test with substitute Alternator. Replace malfunctioning Alternator. Refer to Alternator Voltage Test.  |
| During program, excessive resistance loading occurs.   | Loose wire connections                        | Disconnect then, reconnect connections.   |
|  | Worn or damaged wire harnesses                | Inspect wire harnesses. Replace worn or damaged harness.  |
|  | Malfunctioning Display Console                | Test with substitute Display Console. Replace Display Console.  |
|  | Malfunctioning Alternator Control Board (ACB) | Test with substitute ACB. Replace malfunctioning ACB.   |
|  | Malfunctioning Alternator                     | Test Alternator output or, test with substitute Alternator. Replace malfunctioning Alternator. Refer to Alternator Voltage Test.  |
| During MANUAL program, resistance variation occurs.  | Pedaling too slowly                           | Pedal faster than 35 RPM.   |
|  | Loose wire connections                        | Disconnect then, reconnect connections.   |
|  | Worn or damaged harnesses                     | Inspect wire harnesses. Replace worn or damaged harness.  |
|  | Malfunctioning Display Console                | Test with substitute Display Console. Replace Display Console.  |

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|--|--|--|
| During MANUAL program, resistance variation occurs.  | Malfunctioning Alternator Control Board      | Test with substitute Alternator Control Board. Replace defective board.  |
|  | Malfunctioning Alternator                    | Test Alternator output or, test with substitute Alternator. Replace malfunctioning Alternator. Refer to Alternator Voltage Test. |
| During RANDOM or HILL programs, resistance is constant without variation for interval training nor hill incline/decline.     | Loose wire connections                       | Disconnect then, reconnect connections.  |
|  | Worn or damaged harnesses                    | Inspect wire harnesses. Replace worn or damaged harness.   |
|  | Malfunctioning Display Console               | Test with substitute Display Console. Replace malfunctioning Console.  |
|  | Malfunctioning Alternator Control Board      | Test with substitute Alternator Control Board. Replace defective board.  |
|  | Malfunctioning Alternator                    | Test Alternator output or, test with substitute Alternator. Replace malfunctioning Alternator. Refer to Alternator Voltage Test. |
| Pedaling is difficult, feels restricted or, is not possible when Exercise Bike has not been started (START key not pressed). | Malfunctioning Pulley Clutch Assembly        | Inspect Clutch for free backward and forward rotation. Replace malfunctioning Pulley Clutch or Freewheel.                        |
|  | Alternator Belt excessively tight            | Inspect belt deflection. Adjust as necessary. Alternator Belt Deflection: 1/4 inch (6mm)   |
|  | Alternator Belt Alignment OFF                | Realign alternator belt to far users left groove of the alternator pulley, not in the center.                                    |
|  | Crank bearings worn                          | Replace Crank Bearings.  |
| During exercise program, pedaling is insufficiently easy, not providing adequate resistance.                                 | Pedaling too slowly                          | Pedal faster than 30 RPM.  |
|  | Program level doesn't challenge user ability | Select higher level.   |
|  | Loose wire connections                       | Disconnect then, reconnect connections.  |
|  | Worn or damaged harnesses                    | Inspect wire harnesses. Replace worn or damaged harness.   |
|  | Malfunctioning Display Console               | Test with substitute Display Console. Replace malfunctioning Display Console.  |
|  | Malfunctioning Alternator Control Board      | Test with substitute Alternator Control Board. Replace defective board.  |

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|--|---|---|
| During exercise program, pedaling is insufficiently easy, not providing adequate resistance. | Malfunctioning Alternator                   | Test Alternator output or, test with substitute Alternator. Replace malfunctioning Alternator. Refer to Alternator Voltage Test.      |
|  | Alternator Belt excessively loose           | Inspect belt deflection. Adjust as necessary. Alternator Belt Deflection: 1/4 inch (6mm)  |
|  | Drive Belt excessively loose                | Inspect Belt. Replace Belt.   |
| Battery over-heating during exercise program.  | Battery Wires incorrectly connected         | Inspect connections: red wire to positive (+) lead; <b>black</b> wire to negative (-) lead.   |
|  | Worn Battery Wires                          | Inspect Wires. Replace Wires or harness.  |
|  | Battery leads grounding upon frame          | Inspect leads. Replace battery.   |
|  | Malfunctioning Display Console              | Test with substitute Display Console. Replace malfunctioning Console.   |
| Exercise Bike not stable upon floor.   | Stabilizer Foot Pads not adjusted correctly | Adjust Foot Pads.   |
|  | Floor surface not level                     | Position Exercise Bike upon level surface.  |
|  | Wheel(s) damaged                            | Replace damaged wheel(s).   |
|  | Frame damaged                               | Contact Customer Support Services.  |
| During exercise program, loud noise issuing from Exercise Bike.                              | Non-carpeted, hard surface floor            | Place Exercise Bike upon softer surfaced floor.   |
|  | Improper riding style                       | Change style. Do not lean excessively to either side.   |
|  | Crank Bearings worn                         | Inspect Bearings. Replace as necessary.   |
|  | Alternator Belt excessively loose           | Inspect belt deflection. Adjust as necessary.<br>Alternator Belt Deflection: 1/4 inch (6mm)   |
|  | Alternator Belt worn                        | Replace Belt.   |
|  | Malfunctioning Alternator                   | Operate Exercise Bike as in normal use with light and heavy load levels. Listen for excessive noise. Replace Alternator as necessary. |
|  | Drive Belt excessively loose                | Inspect Belt. Replace Belt.   |
|  | Free-wheel Pulley Assembly                  | Inspect clutch for free rotation. Replace defective Freewheel Pulley.   |

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|--|---|---|
| No heart rate or, display reads (No Heart Rate). | No heart rate reading   | Executive Diagnostic Mode to verify performance of heart rate function.   |
|  | Faulty cable connection   | Verify heart-rate cable is properly connected.<br><br>Using an ohmmeter, verify continuity at the main console cable. See wiring diagram for pin location.                              |
|  | Malfunctioning Handlebar/Lifepulse Grip Assembly (include. Worn or damaged heart rate lead) | Replace Handlebar/Lifepulse Assembly.   |
|  | Life Pulse handlebar  | Verify that the handlebar is functioning. See diagrams.<br><br>Using an ohmmeter, verify continuity between Lifepulse sensor and cable connection. See wiring diagram for pin location. |
|  | Handlebar/Lifepulse Grip Assembly   | Dry wipe sensors.   |
|  | Loose or malfunctioning heart rate lead connection at Display Console                       | Secure connection. Replace malfunctioning Handlebar/Lifepulse Grip Assembly   |
|  | Malfunctioning Display Console  | Test with substitute Display Console. Replace malfunctioning Display Console.   |
|  | Wear or damage to grip  | Replace the handlebar assembly.   |
| Channels do not change.                          | Key pad malfunction.  | Run Key pad test in diagnostics. Replace if defective.  |
|  | Interface PC board defective.   | Replace Interface PC board.   |
| Sound does not change.                           | Key pad malfunction.  | Run Key pad test in diagnostics. Replace if defective.  |
|  | Interface PC board defective.   | Replace Interface PC board.   |
| Faulty PCB                                       | Only one channel programmed   | Follow the setup procedures in the operator manual.   |
| No sound.  | Faulty headphones.  | Replace headphones.   |
|  | Faulty headphone jack   | Replace headphone jack assembly.  |
|  | Faulty cable to Headphone jack assembly   | Replace Headphone jack cable.   |
|  | Air/cable setting may not be correct  | Follow the set up procedures in the operators' manual.  |
|  | Power applied prior to video hookup   | Power down, install video, and follow channel instruction.  |