

**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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<b>SYMPTOM</b>	<b>PROBABLE CAUSE</b>	<b>CORRECTIVE ACTION</b>
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. 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.  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.  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.