Service Manual

Enterra/Eclipse Junior VLC Curing Unit



| Model Number | Voltage | Frequency |
|-----------------|----------|-----------|
| 9495100/9495150 | 100-120V | 50-60Hz |
| 9495101/9495151 | 200-240V | 50-60Hz |

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Safety

- •Use indoors only.
- •Never operate the unit in close proximity to combustible materials or place materials on top of the unit.
- •The unit must be electrically grounded to a three wire electrical outlet or receptacle. The electrical service provided must be a dedicated line of the proper size according to local electrical codes.
- •Unit must be placed in a position that allows the power cord to be easily disconnected from the wall or inlet socket.
- •Do not attempt to service the unit until you have read and understand the operations manual.
- •Turn off the power switch and disconnect the line cord before attempting to service the unit.
- •Do not operate the unit controls with tongs or other tool.
- •Do not use solvents or liquid cleaners on the control panel.
- •Do not cover the top of the unit or obstruct the rear fans in any other way.

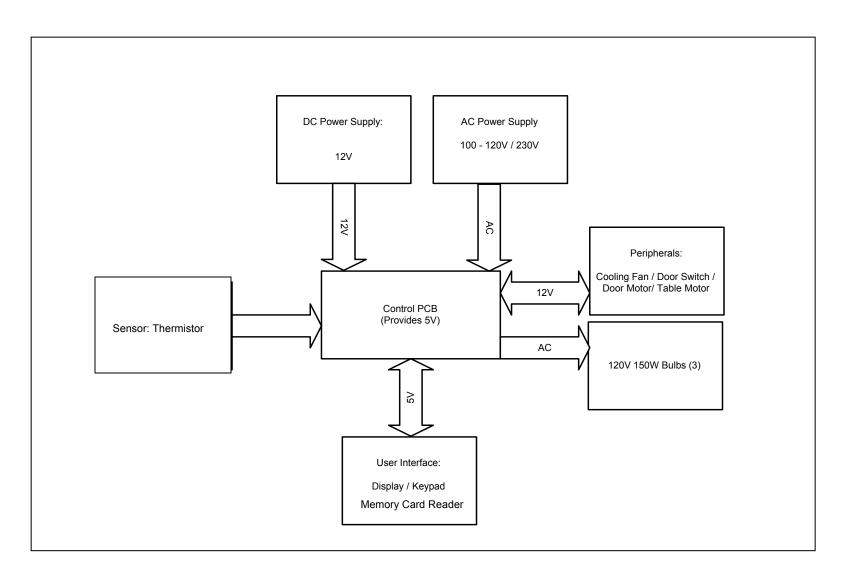
CAUTION: RISK OF DANGER!

BURN HAZARD IS PRESENT WHEN COVER IS OPENED.

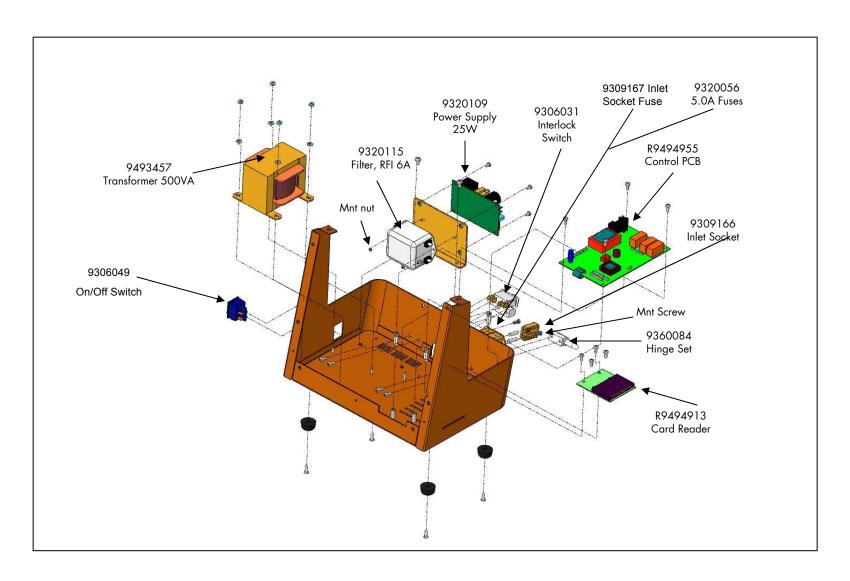
USE CAUTION AFTER OPENING COVER.

METAL SURFACES MAYBE HOT!

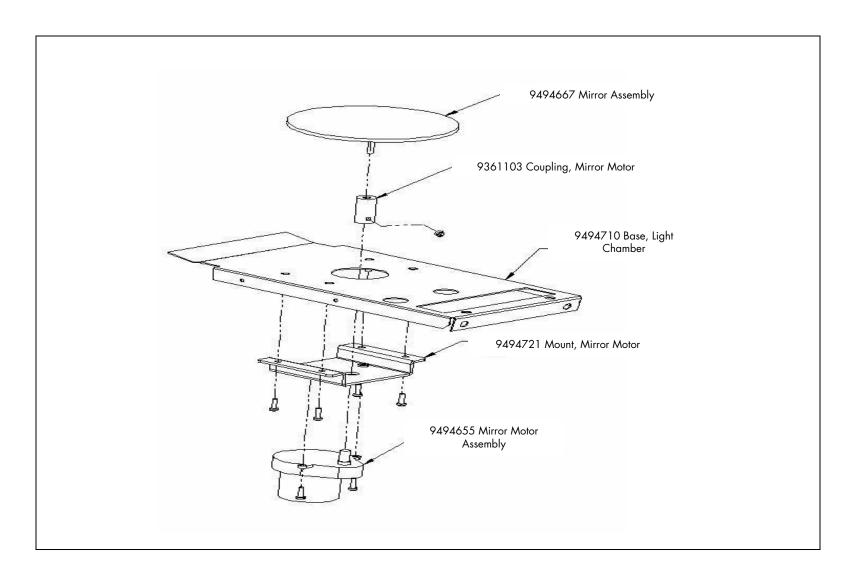
Block Diagram



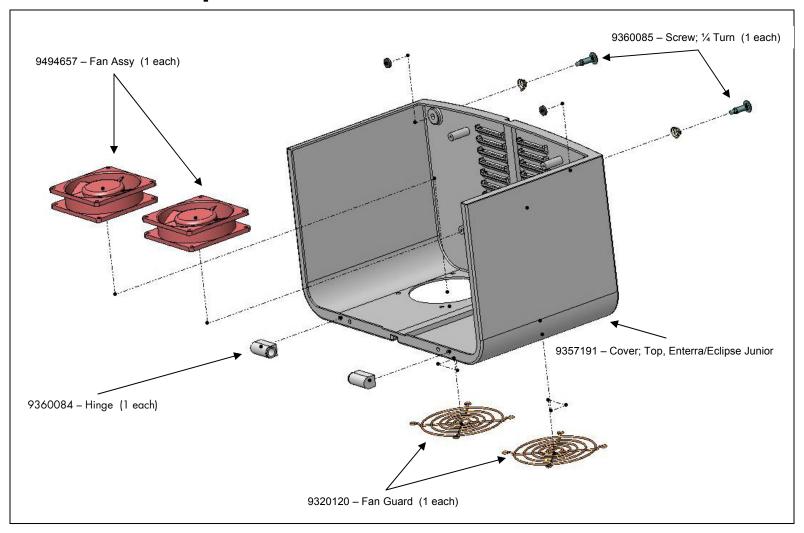
Exploded View & Service Parts



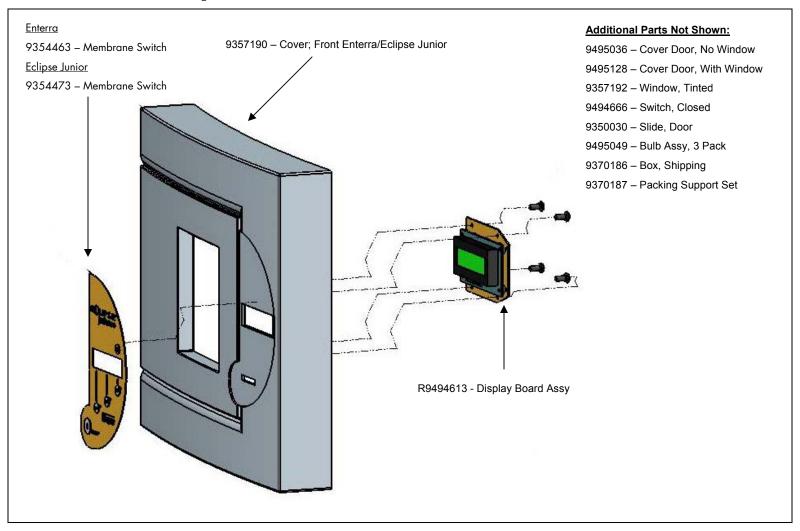
Exploded View & Service Parts Cont.



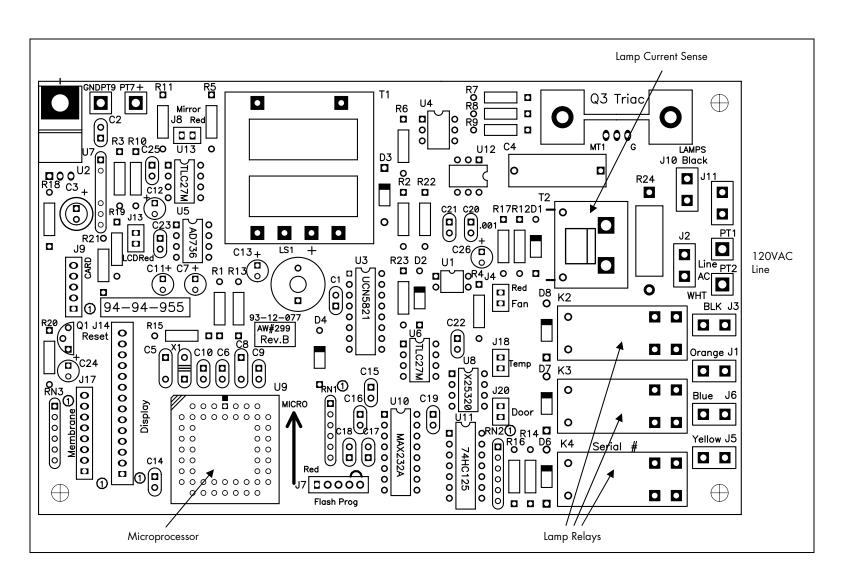
Exploded View & Service Parts Cont.



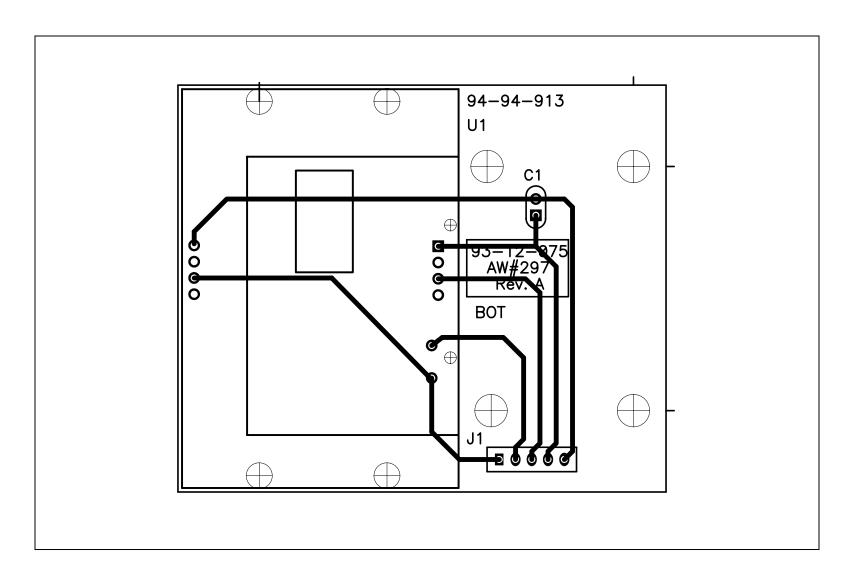
Exploded View & Service Parts Cont.



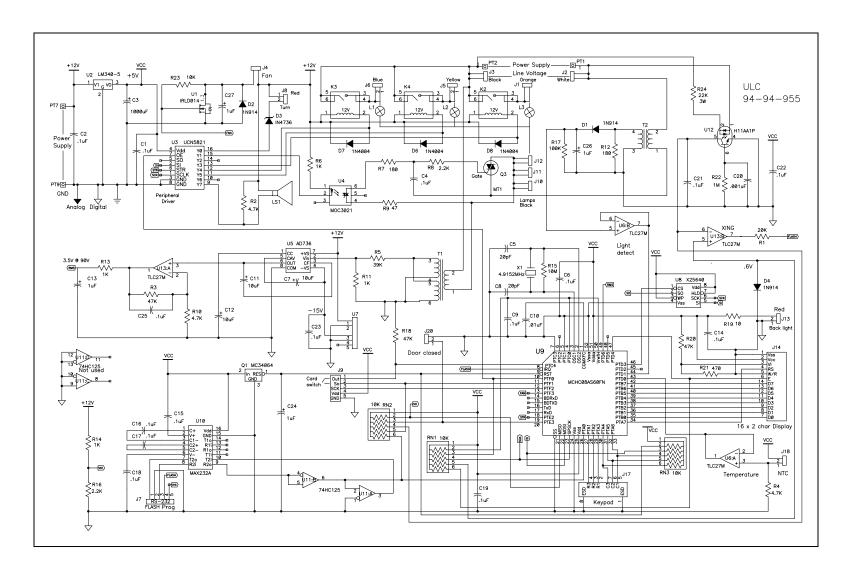
Control PCB



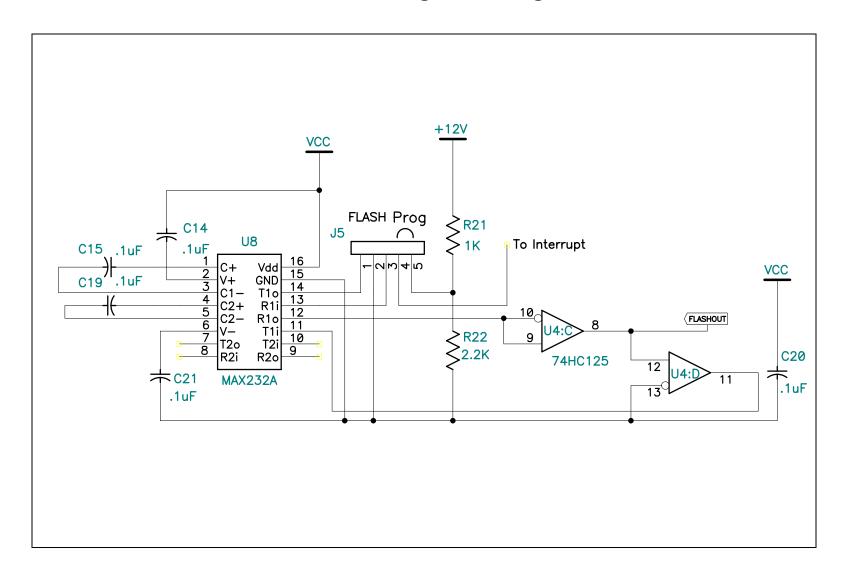
Card Reader PCB



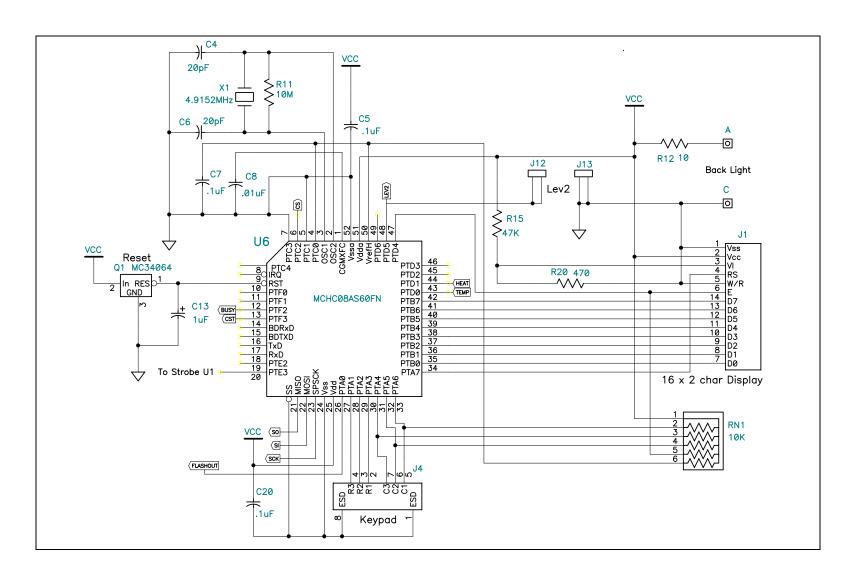
Control Schematic



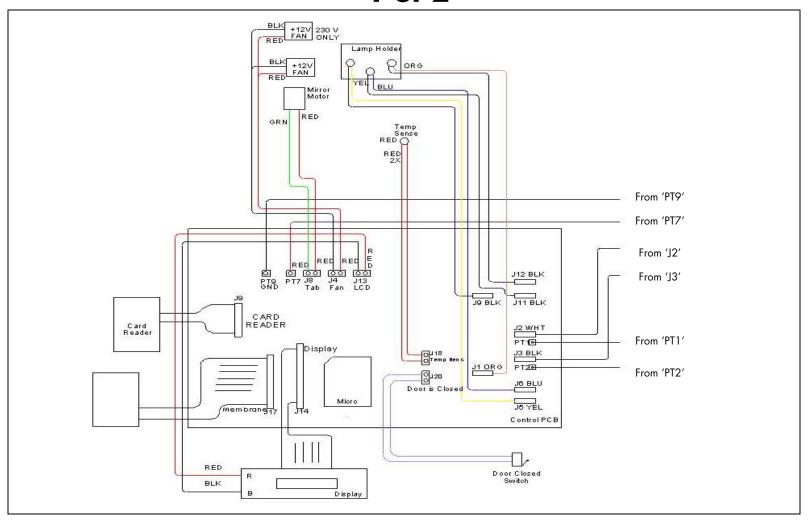
Flash Programming



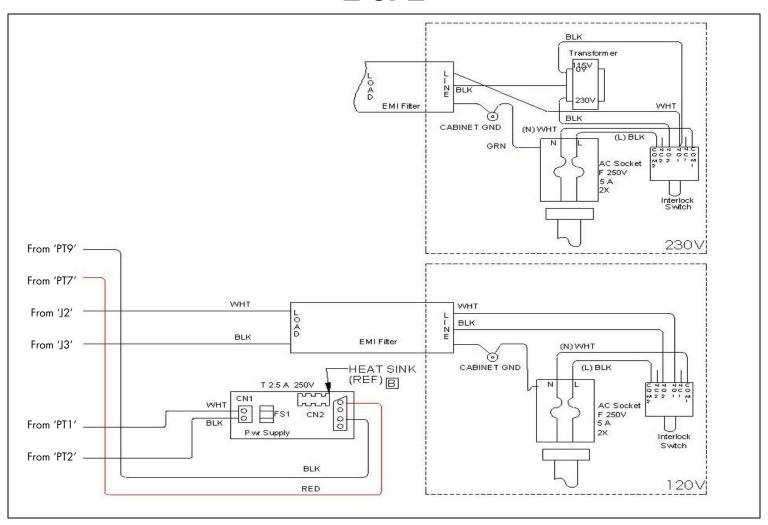
Microprocessor



Wiring Diagram 1 of 2



Wiring Diagram 2 of 2



Wiring Hookup

Control PCB:

- * Black/White AC Power-Cable wire from Control PCB to CN1 on Power Board.
- * Red/Black DC Power-Cable wire from Control PCB to CN2 on Power Board.
- * Orange wire from left bulb assembly to J1 on Control PCB.
- * Blue wire from center bulb assembly to J6 on Control PCB.
- * Yellow wire from right bulb assembly to J5 on Control PCB.
- * Black wires from bulb assemblies to J9, J11 and J12.

Membrane Switch:

* Membrane Switch connector to J17 on Control PCB.

Card reader PCB:

* Card reader connector to J9 on Control PCB

Wiring Harness:

- * Purple wire to J20 on Control PCB. (Door switch)
- * Red/Black Wire Jack to J4 on Control PCB. (Fan)
- * Green/Red Wire Jack to J8 on Control PCB. (Table Motor)
- * Red/Red Wire to J18 on Control PCB. (Temp Sense)

Wiring Hookup Cont.

Display PCB:

- * Display Board data connector to J14 on Control PCB.
- * Display Board Power connection cable (Black/Red) to J13 on Control Board.

Power 120V:

- * Power Cord black wire to COM2 of Interlock Switch.
- * Black wire from NO2 on Interlock Switch to EMI Filter, Right Side of LINE input.
- * Power Cord White wire to COM1 of Interlock Switch.
- * White wire from NO1 on Interlock Switch to EMI Filter, Left Side of LINE input.

Power 230V:

- * Power Cord black wire to COM2 of Interlock Switch.
- * Black wire from 230V input of transformer to NO2 on Interlock Switch.
- * Power Cord White wire to COM1 of Interlock Switch.
- * Black wire from OV input of transformer to NO1 on Interlock Switch.
- * White wire from piggyback on NO1 of Interlock Switch to EMI Filter, Left Side of LINE input.
- * Black wire from 115V output on transformer to EMI Filter, Right Side of LINE input.

Ground: (Separate each wire with a nut)

- * Power cord ground on bottom tight and by itself.
- * One ground wire to base stud and secure with nut, plug opposite LINE side of EMI filter.

Product Service

Three methods of product service are available: Telephone assistance available at the number listed below,

Return the unit for servicing using the instructions below,

BEFORE RETURNING THE UNIT:

Call DENTSPLY for an RMA (Return Material Authorization) number. This is used to track and identify your unit. Equipment received without this number may not be identifiable.

Equipment damaged in shipment as a result of improper packing may not be paid by the carrier.

DENTSPLY will not be responsible for damages resulting from improper packing.

Ship prepaid to:

DENTSPLY Ceramco

DENTSPLY International

RMA Number

13553 Calimesa Blvd.

Yucaipa, CA 92399-1203 USA

Phone: 909.795.2461 Fax: 909.795.5268

equipmentrepair.ca@dentsply.com