Service Manual

VULCAN D- CONTROL

MODELS:	D-130	D-550	D-1750	D-1750 EURO
100V		9495132		
120V	9495120	9495130		
230V	9495121	9495131	9495140	9495141

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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.

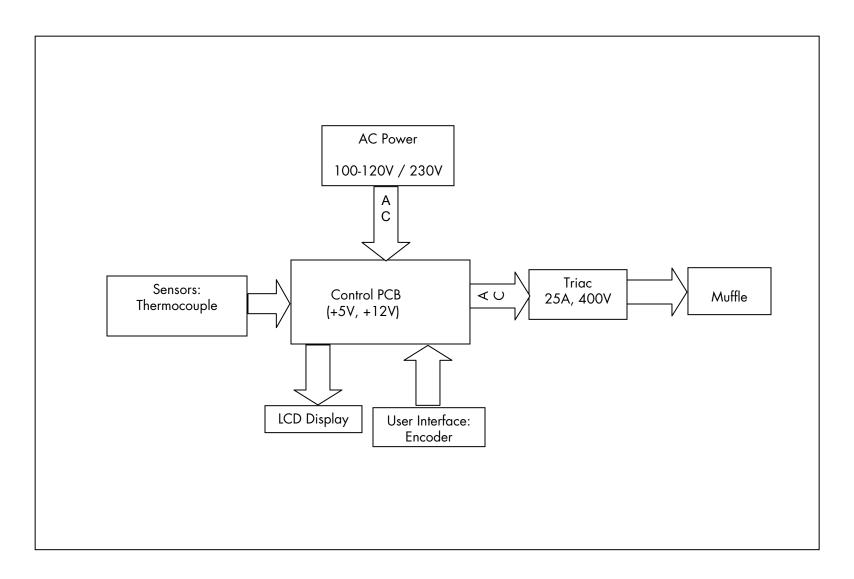
CAUTION: RISK OF DANGER!

BURN HAZARD IS PRESENT WHEN DOOR IS OPENED.

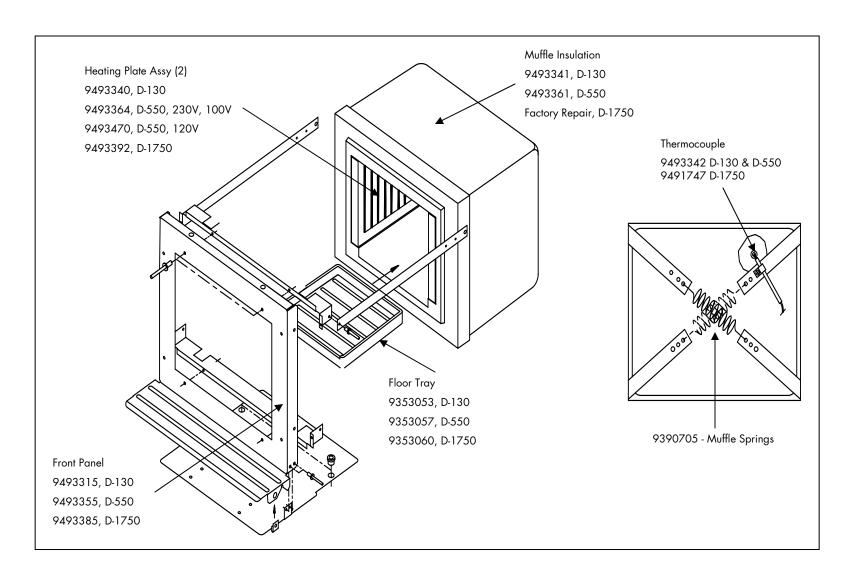
USE CAUTION AFTER OPENING DOOR.

METAL SURFACES MAY BE HOT!

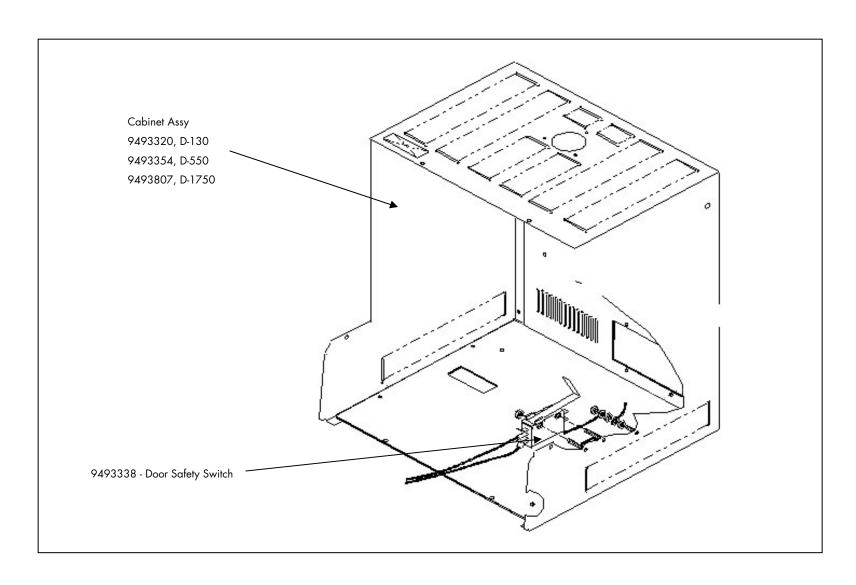
Block Diagram



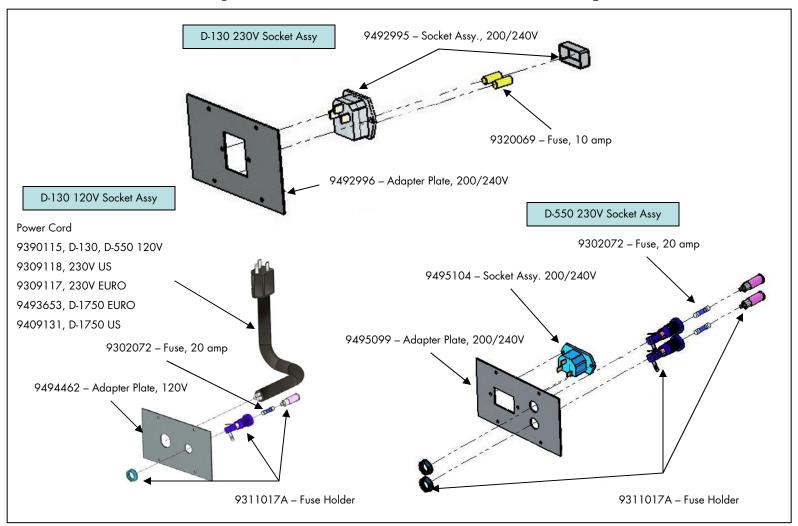
Exploded View, Muffle & Thermocouple



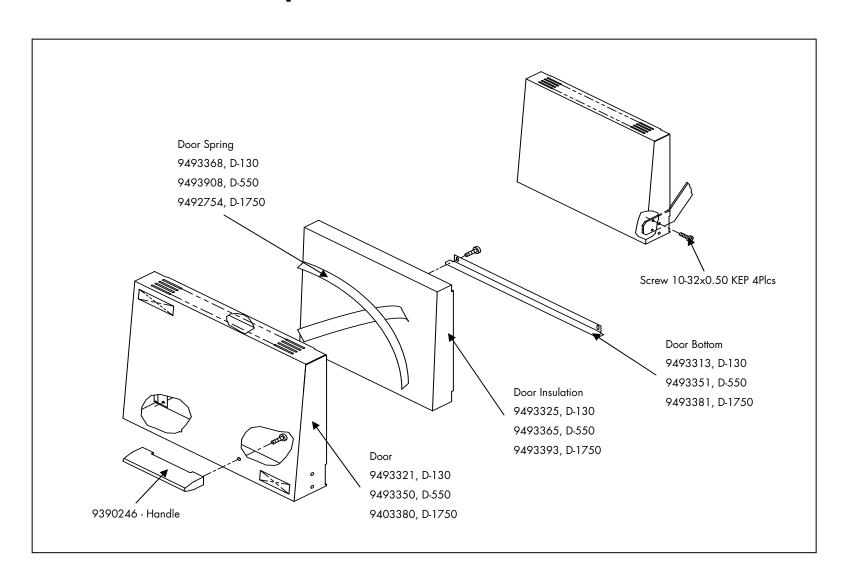
Exploded View, Cabinet Parts



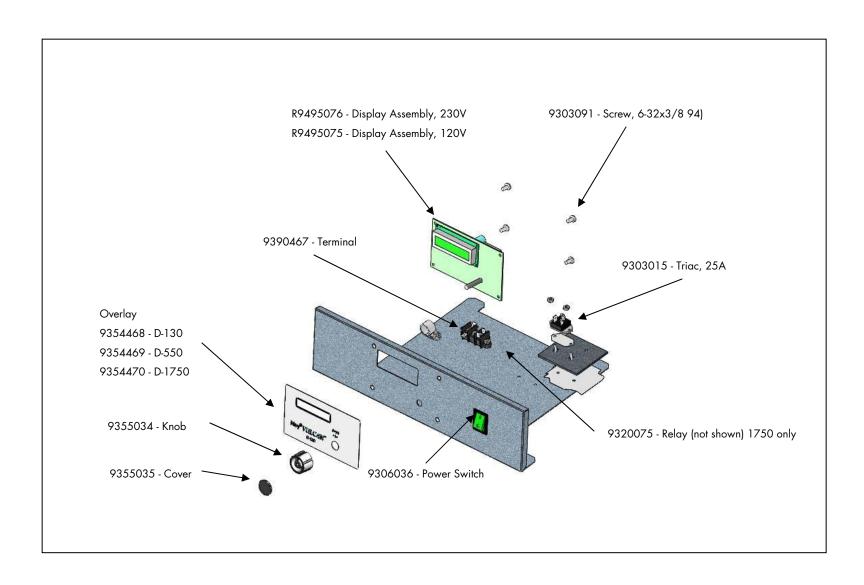
Exploded View, Socket Assembly



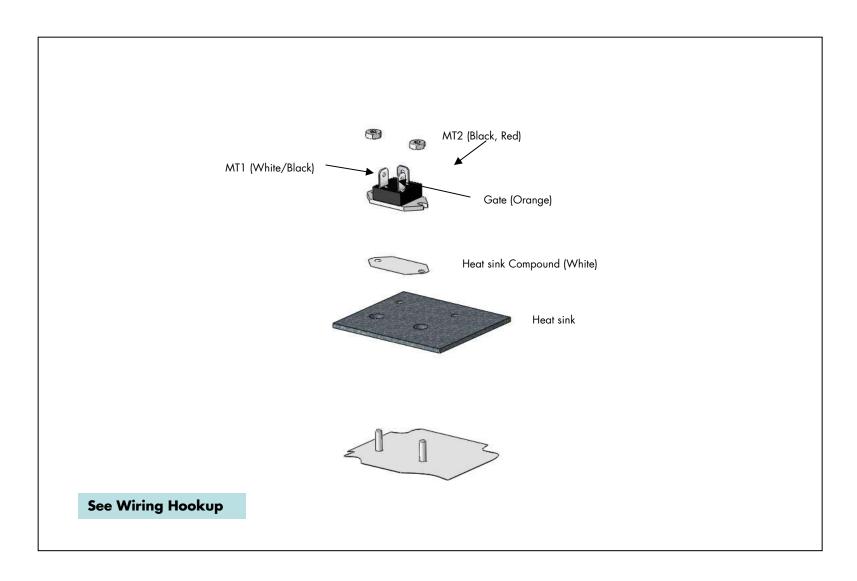
Exploded View, Door Parts



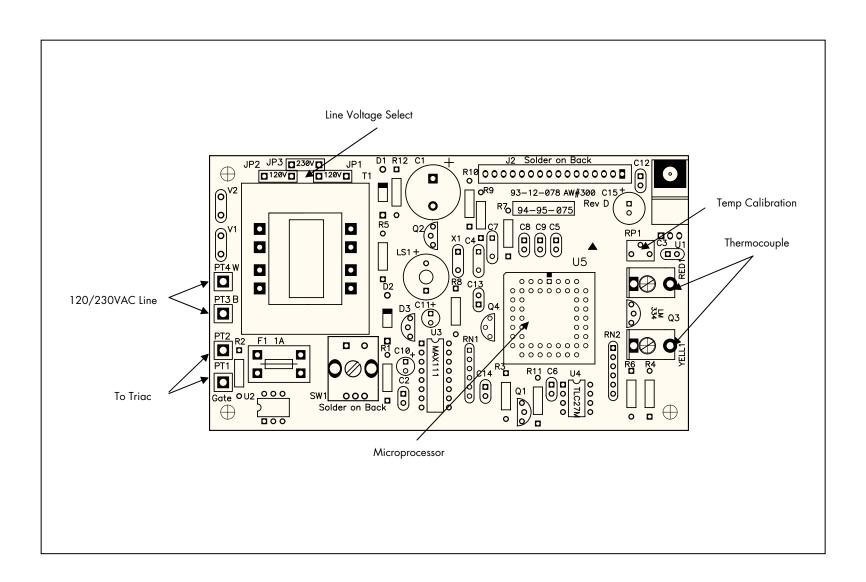
Exploded View, Control Panel



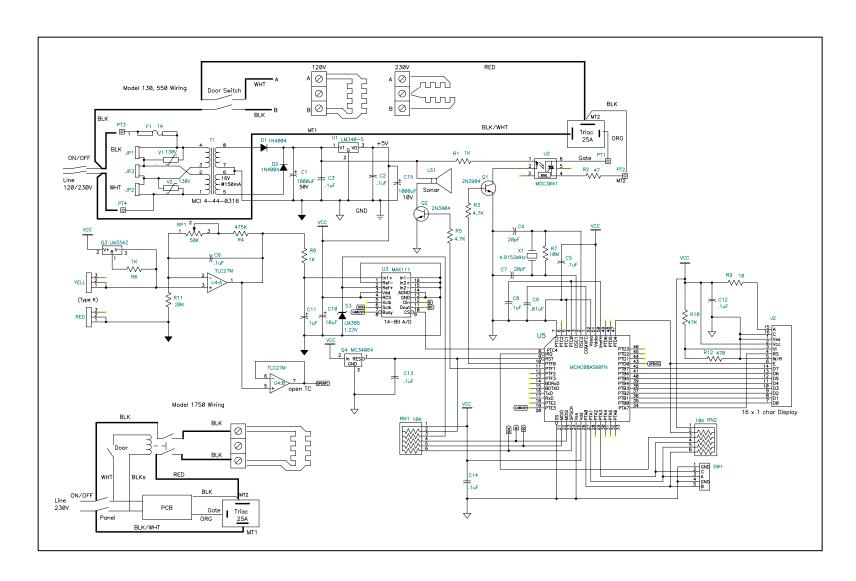
Exploded View, Triac



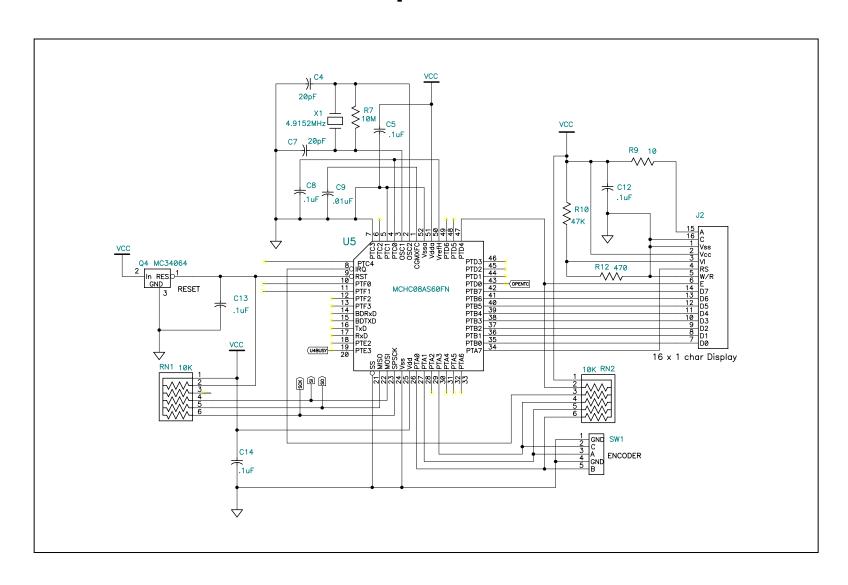
Control PCB



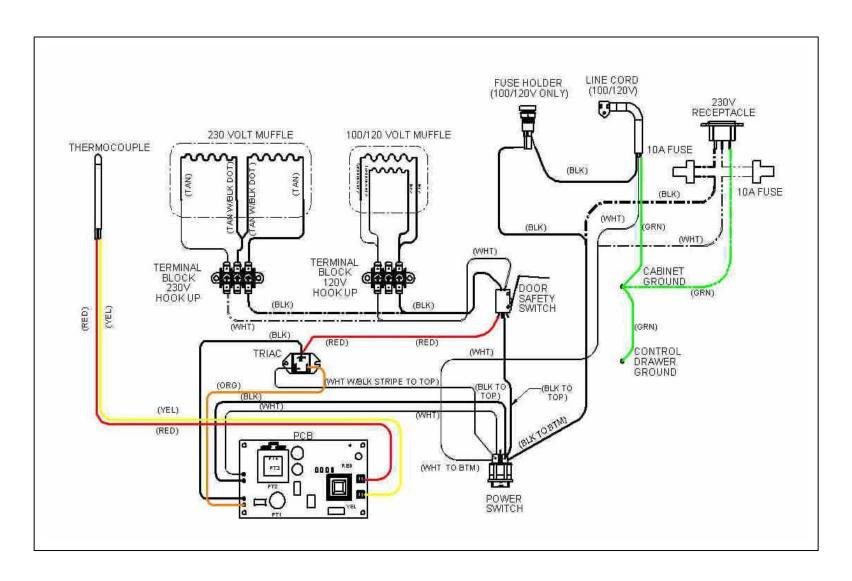
Schematic Diagram



Microprocessor



Wiring Diagram D-130 & D-550



Wiring Hookup D-130 & D-550

D- 130, D - 550

230V:

- * Muffle wires in series on terminal block
- * Line socket Black wire to bottom of power switch
- * Line socket White wire to bottom of power switch

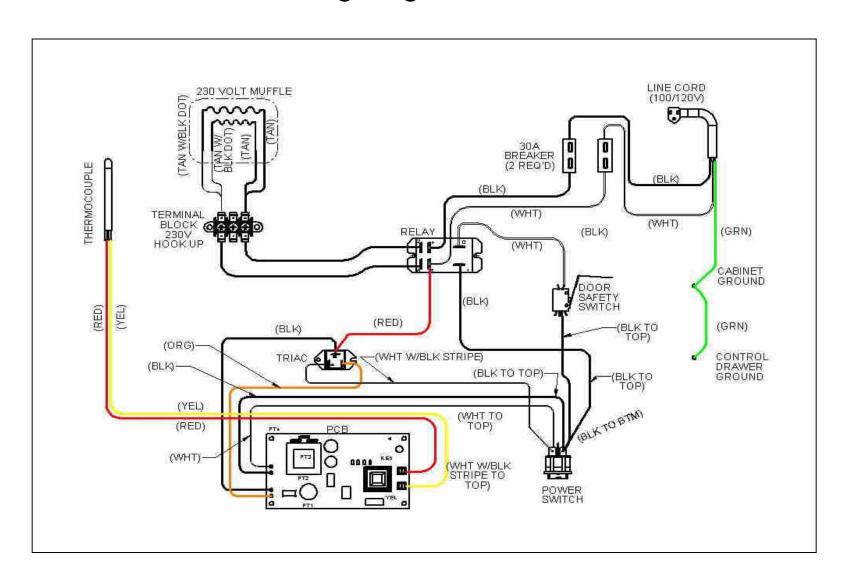
120V:

- * Muffle wires in parallel on terminal block
- * Black power cord wire to Fuse holder
- * Black wire from fuse holder to bottom of power switch

120/230V:

- * White power cord wire to bottom of power switch
- * Black/White piggy back wires from PCB to top of power switch
- * Black/White wire from MT1 of triac to power switch White piggy back wire
- * Black Wire from PCB to MT2 triac
- * Orange wire from PCB to gate on triac
- * Red wire from MT2 triac to front of door switch bottom terminal
- * White and Black wire assembly from door switch, rear, to terminal block
- * Black wire from door switch (front, second from top terminal) to power switch Black piggy back wire
- * Power cord Green Ground wire to side of cabinet on its on stud

Wiring Diagram D-1750



Wiring Hookup D-1750

D- 1750

- * Muffle wires in parallel on terminal block
- * Black and White wires from Power cord to circuit breakers, from breakers to bottom of power switch
- * Black and White piggy back wires from PCB to top of terminals of power switch
- * Black/White piggy back wire from MT1 triac to bottom of power switch
- * Black wire from PCB to MT2 triac
- * Orange wire from PCB to gate triac
- * Red wire from MT2 triac to terminal 8 on power relay
- * Black wire from top of power switch to terminal 1 on power relay
- * White wire from front, 2nd top terminal on door switch, to top terminal on power switch
- * White wire from door switch, rear top terminal, to terminal 0 on power relay
- * Black piggy back wire from terminal 4 on power relay to bottom of power switch
- * Black wire assembly from outside terminals of terminal block to terminal 2 and 6 relay

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