

Electrical Schematic 702260 — RCM Inputs

RCM Sections

Refer to the illustration of the Rack Control Module (RCM) to the left and note the three outlined sections. The sections are labeled and the function of each section is explained below:

Input Section — Red lights show the state of the inputs to the RCM.

Output Section — Green lights show the outputs from the RCM to the machine.

RCM Status/Jumpers — The red RUN indicator shows that the RCM is energized. The jumpers set-up the inputs and outputs for various machine models.

RCM Harness Connectors

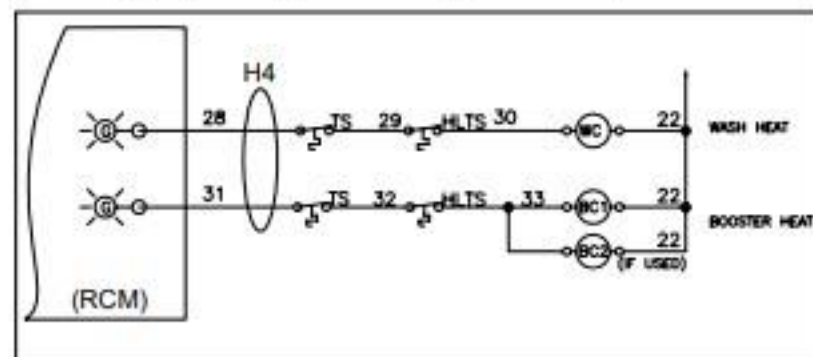
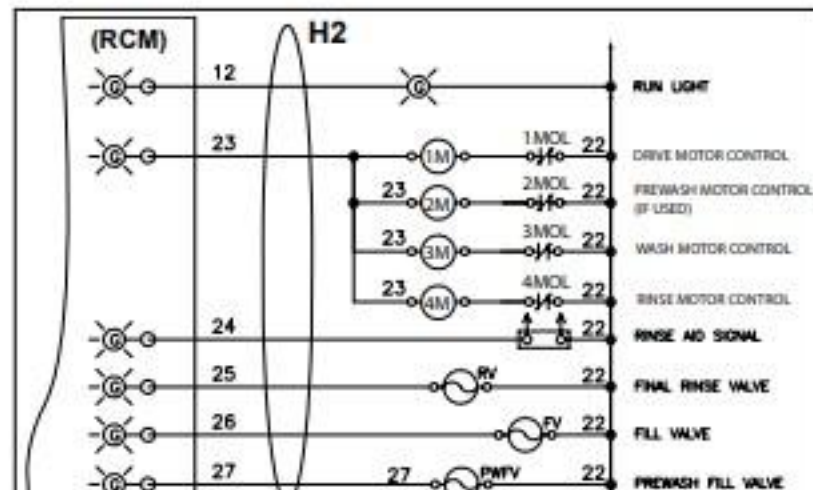
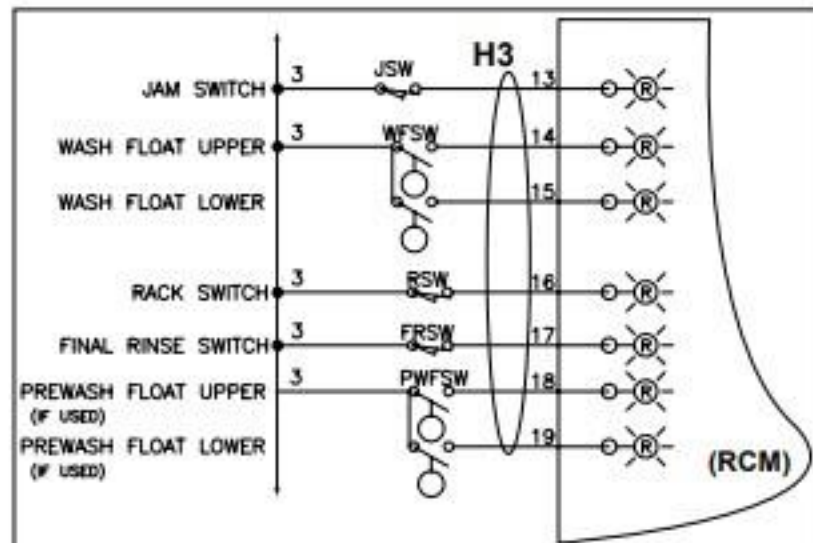
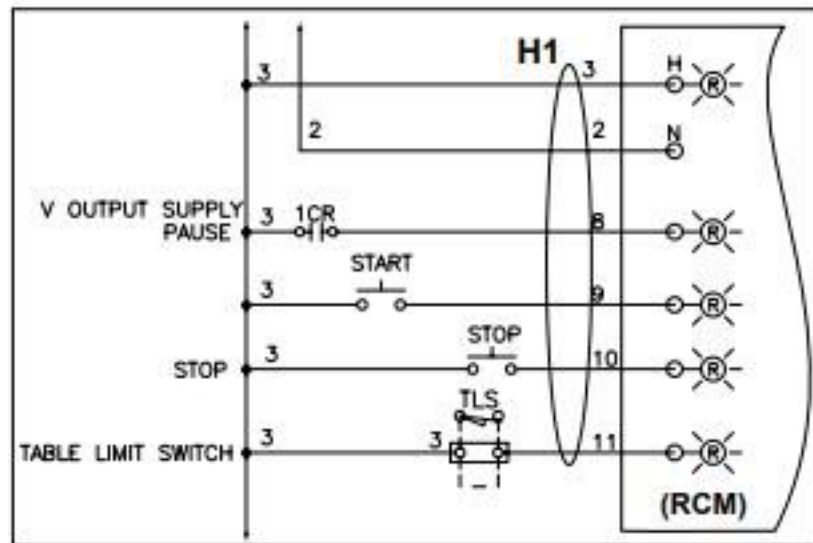
Note the illustration of the RCM at left and the details from the machine electrical schematic #702260 to the right. These illustrations show the location and connections from the RCM to the dishwasher. The function of the connectors are:

- H1 — Control Cabinet Inputs
- H2 — Control Cabinet Outputs
- H3 — Inputs from Junction Box
- H4 — Heat Outputs

RCM Operation

The insert following this page gives a detailed explanation of the inputs, outputs and the status of the indicator lights on the RCM during normal operation of the machine.

Refer to these instructions and the electrical schematic for the operation sequence of the RCM and to aid in the troubleshooting of the dishwasher.



MODELS COVERED BY THIS DRAWING

MD44, CH44 MD66, CH66

NOTES:

1. WHEN TABLE LIMIT SWITCH IS USED REMOVE JUMPER AND CONNECT LEADS BETWEEN WIRES 3 AND 11 ON TERMINAL BLOCK IN PANEL.

1CR	DOOR SAFETY RELAY
1M	DRIVE MOTOR CONTACTOR
1MOL	DRIVE MOTOR OVERLOAD
2M	PREWASH MOTOR CONTACTOR
2MOL	PREWASH MOTOR OVERLOAD
3M	WASH MOTOR CONTACTOR
3MOL	WASH MOTOR OVERLOAD
BC-	BOOSTER CONTACTOR
CWV	COLD WATER VALVE
DTV	DRAIN TEMPERING VALVE
FRSW	FINAL RINSE SWITCH
FU	FUSE/FUSE BLOCK
FV	FILL VALVE
HLTS	HIGH LIMIT THERMOSTAT
JSW	JAM SWITCH
PCB	POWER SWITCH/CIRCUIT BREAKER
PW	PREWASH DOOR SWITCH
PWFV	PREWASH FILL VALVE
PWFSW	PREWASH TANK FLOAT SWITCH
RSW	RACK SWITCH
RV	RINSE VALVE
T1	CONTROL TRANSFORMER
TLS	TABLE LIMIT SWITCH
TS	THERMOSTAT
W	WASH DOOR SWITCH
WC	WASH HEAT CONTACTOR
WFSW	WASH TANK FLOAT SWITCH

HARNESS ASSEMBLIES
 H1 - 6 PIN ALL MODELS
 H2 - 6 PIN ALL MODELS
 H3 - 8 PIN ALL MODELS
 H4 - 2 PIN ALL MODELS

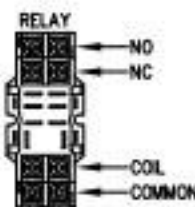
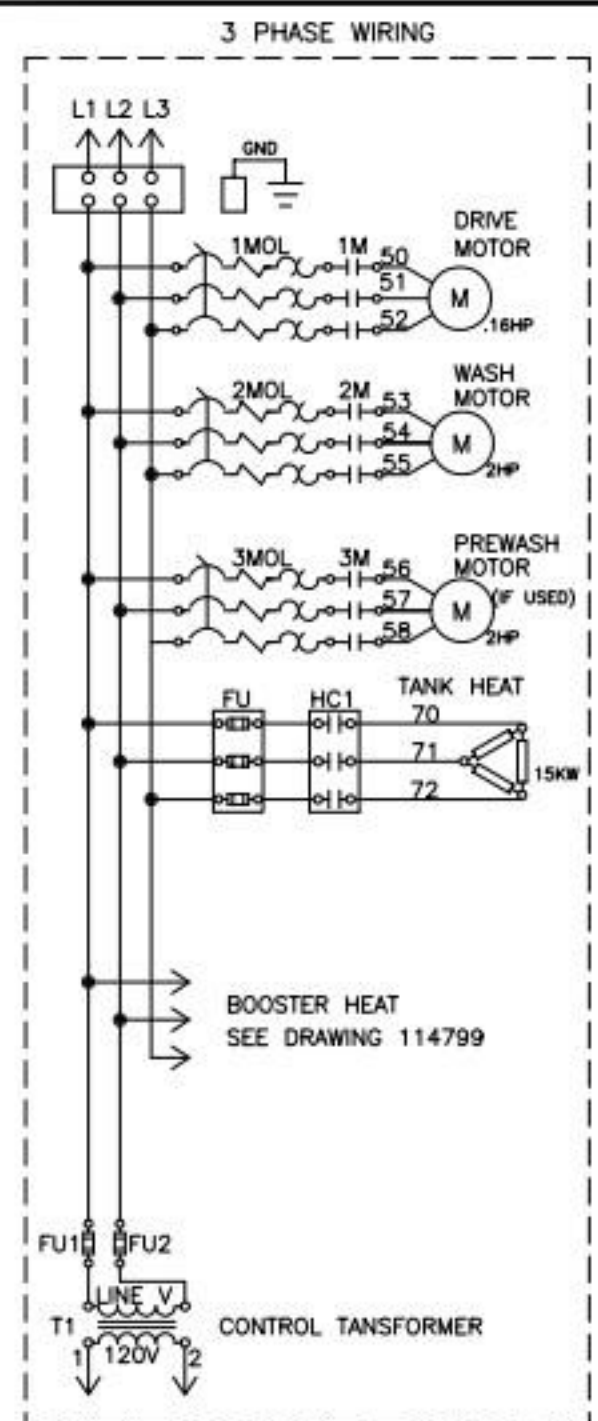
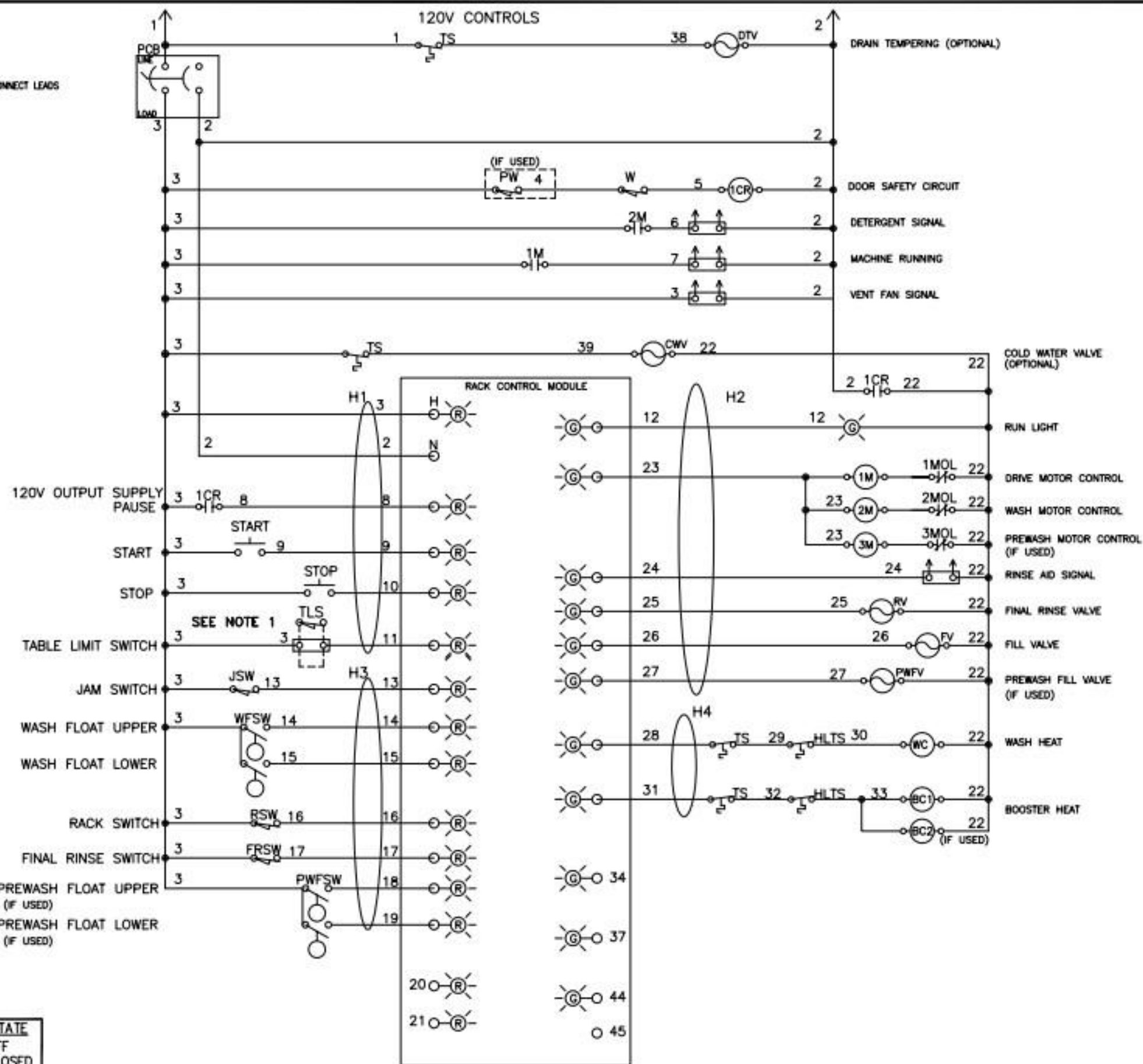


DIAGRAM STATE
 POWER OFF
 DOORS CLOSED
 TANKS EMPTY



Circuit Board Jumper Settings
 CH/MD44 = No jumpers installed
 CH/MD66 = Prewash jumper installed
 DR Tank & Rinse Tank Jumpers not used

CUSTOMER TO SUPPLY RATED VOLTAGE/PHASE/Hz, AS SPECIFIED PER ORDER, TO DISCONNECT SWITCH. ALL POWER SUPPLIED TO EACH CONNECTION POINT MUST COMPLY WITH ALL LOCAL ELECTRIC CODES.		
DR. BY	J.MCALLISTER	SCALE NONE
DATE	03MAY10	SHEET 1 OF 1

REV.	DESCRIPTION	DATE	BY
A	REVISION FOR RELEASE TO PRODUCTION	3MAY10	JAM
B	MOVED DRAIN TEMPERING VALVE CIRCUIT	4MAY10	JAM

REV.	DESCRIPTION	DATE	BY

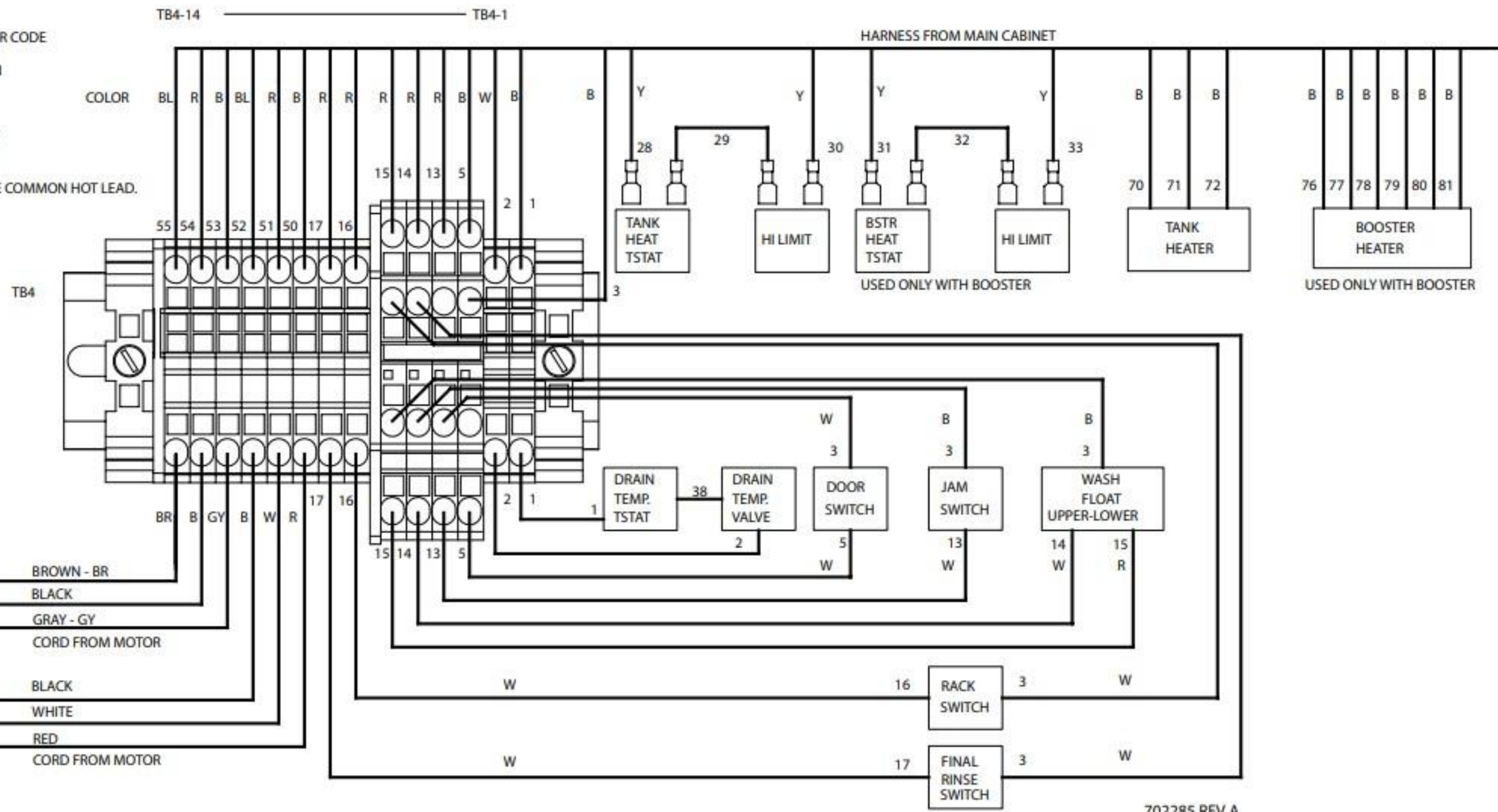
Champion
 The Dishwashing Machine Specialists

MD44/66 SINGLE TANK RACK
 ELECTRIC HEAT PREWASH OPTIONAL
B 702260 REV. B

CH-44/MD-44 JUNCTION BOX WIRING DIAGRAM

WIRE COLOR CODE
 B - BLACK
 BR - BROWN
 GY - GRAY
 R - RED
 BL - BLUE
 Y - YELLOW
 W - WHITE

WIRE 3 IS THE COMMON HOT LEAD.



702285 REV A

CUSTOMER TO SUPPLY RATED VOLTAGE/PHASE/Hz, AS SPECIFIED PER ORDER, TO DISCONNECT SWITCH. ALL POWER SUPPLIED TO EACH CONNECTION POINT MUST COMPLY WITH ALL LOCAL ELECTRIC CODES.

DR. BY	JMCALLISTER	SCALE	NONE
DATE	26MAY10	SHEET	1 OF 1

REV.	DESCRIPTION	DATE	BY
A	MOVED DRAIN TEMPERING VALVE CIRCUIT	4MAY10	JAM

REV.	DESCRIPTION	DATE	BY

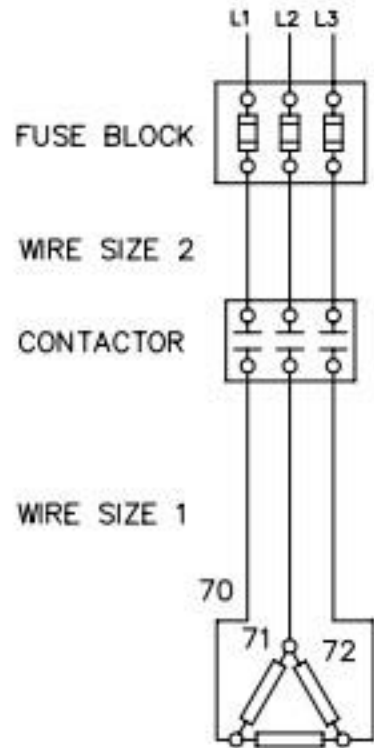


CH-44/MD44 JUNCTION BOX WIRING DIAGRAM	
B	702285 REV. A

CH44, MD44, CH66, MD66 Rack Machine Tank and Booster Heater Wiring

15 KW TANK HEATER

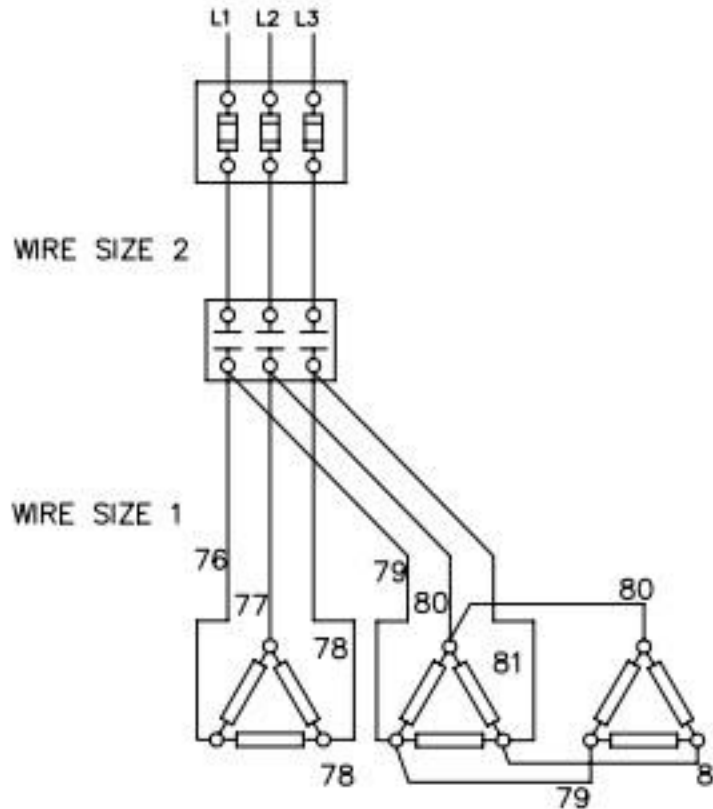
VOLTAGE 200-220V	WASH
KW/CONTACTOR	15KW
CONTACTOR RATING	60A
FUSE RATING	50A
WIRE SIZE	#8
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VOLTAGE 230-240V	WASH
KW/CONTACTOR	15KW
CONTACTOR RATING	60A
FUSE RATING	45A
WIRE SIZE	#8
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VOLTAGE 460-480V	WASH
KW/CONTACTOR	15KW
CONTACTOR RATING	60A
FUSE RATING	25A
WIRE SIZE	#12



TOTAL
15KW 15KW

16 KW BOOSTER HEATER

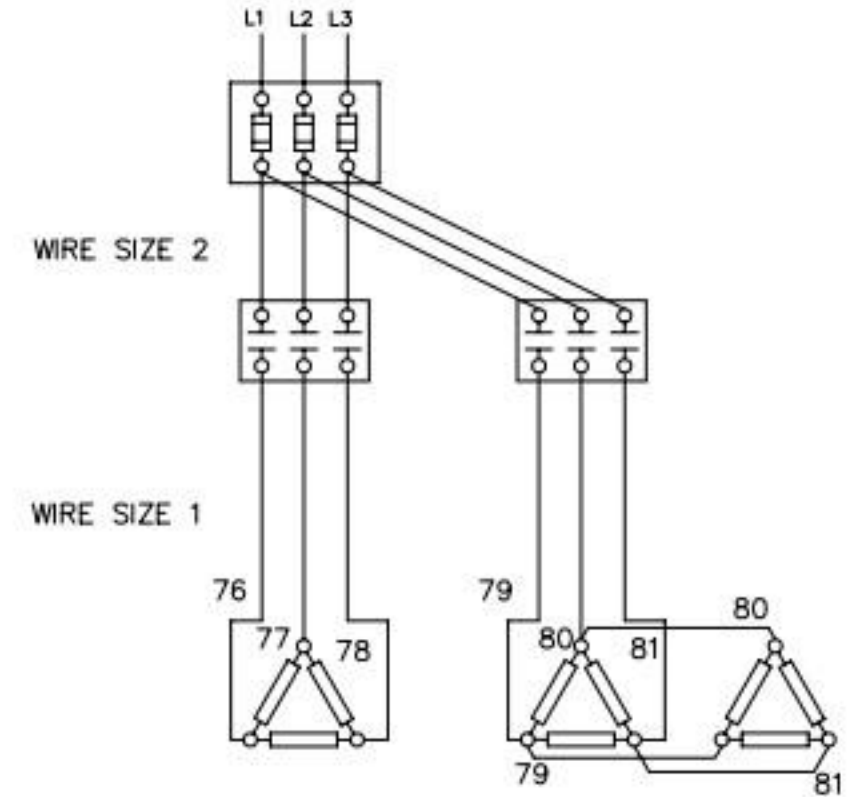
VOLTAGE 208V	DELTA
TOTAL KW	16KW
KW/CONTACTOR	16KW
CONTACTOR #	1
CONTACTOR RATING	60A
WIRE SIZE 1	10
WIRE SIZE 2	8
FUSE RATING	60A
<hr/>	
VOLTAGE 240V	DELTA
TOTAL KW	16KW
KW/CONTACTOR	16KW
CONTACTOR #	1
CONTACTOR RATING	60A
WIRE SIZE 1	10
WIRE SIZE 2	8
FUSE RATING	50A
<hr/>	
VOLTAGE 480V	DELTA
TOTAL KW	16KW
KW/CONTACTOR	16KW
CONTACTOR #	1
CONTACTOR RATING	60A
WIRE SIZE 1	10
WIRE SIZE 2	8
FUSE RATING	25A



TOTAL
16KW 6KW 5KW 5KW

27 KW BOOSTER HEATER

VOLTAGE 208V	DELTA
TOTAL KW	27KW
KW/CONTACTOR	12KW 15KW
CONTACTOR #	1 2
CONTACTOR RATING	60A 60A
WIRE SIZE 1	8
WIRE SIZE 2	8
FUSE RATING	90A
<hr/>	
VOLTAGE 240V	DELTA
TOTAL KW	27KW
KW/CONTACTOR	12KW 15KW
CONTACTOR #	1 2
CONTACTOR RATING	60A 60A
WIRE SIZE 1	8
WIRE SIZE 2	8
FUSE RATING	80A
<hr/>	
VOLTAGE 480V	DELTA
TOTAL KW	27KW
KW/CONTACTOR	12KW 15W
CONTACTOR #	1 2
CONTACTOR RATING	60A 60A
WIRE SIZE 1	10
WIRE SIZE 2	10
FUSE RATING	40A



TOTAL
27KW 12KW 10KW 5KW