

Changing a Main board on a dryer

Write down all setpoints before turning power off.

413731 A

FOR NORMAL USE:
J1 WILL BE JUMPERED AT 6-4 AND 5-3
FOR SPI OPTION:
J1 WILL BE JUMPERED AT 4-2 AND 3-1

AC INPUTS	LED#	CHIP LOCATION	FUNCTION
25	16	U28	BED INDEX LIMIT SWITCH
26	13	U30	DIRTY FILTER INDICATOR
27	12	U29	BLOWER DIRECTION INDICATOR
28	11	U31	PROCESS BLOWER OVERLOAD HEATER
29	-	-	INPUT COM 1B25-2B
30	10	U32	REGEN BLOWER OVERLOAD HEATER (4B0 & ABOVE)
31	9	U34	AIR CYLINDER LIMIT SWITCHES (4B0 & ABOVE)
32	15	U33	COMPRESSED AIR INDICATOR (4B0 & ABOVE)
33	14	U35	SPARE
34	-	-	INPUT COM 1B30-33

AC OUTPUTS	LED#	CHIP LOCATION	FUNCTION
15	1	U16	PROCESS BLOWER
16	2	U17	PROCESS HEATERS
17	3	U18	REGEN BLOWER
18	4	U19	REGEN HEATERS
19	-	-	OUTPUT COM 1B15-1B
20	5	U20	BED INDEX RELAY (AIR CYLINDER SOL 4B0 & ABOVE)
21	6	U21	ALARM
22	7	U22	(BED INDEX RELAY 4B0 & ABOVE)
23	8	U25	SPARE
24	-	-	OUTPUT COM 1B20-23

A/D	FUNCTION
1	POWER 8VDC
2	POWER 8VDC
3	SPARE
4	SPARE
5	ANALOG GROUND (-)
6	SPARE THERMISTOR
7	SPARE THERMISTOR
8	DELTA-T THERMISTOR
9	PROCESS THERMISTOR
10	REGEN THERMISTOR
11	DEW POINT (+)
12	CFM (+)
13	REGEN POWER SAVER THERMISTOR
14	THERMISTOR COM (-)

P4	5VDC TB#	LED#	CHIP LOCATION	FUNCTION
	35			OUTPUT COM
	36	24	U27	-5VDC OUTPUT
	37	23	U27	-5VDC OUTPUT
	38	22	U27	-5VDC OUTPUT
	39	21	U27	-5VDC OUTPUT
	40			INPUT COM
	41	20	U26	-5VDC INPUT
	42	19	U26	-5VDC INPUT
	43	18	U26	-5VDC INPUT
	44	17	U26	-5VDC INPUT

SYM.	AM'T	PART NO.	DESCRIPTION
P1	1	xxx	RIBBON CABLE PLUG TO EXPANDER BOARD
P2	1	413905	RIBBON CABLE PLUG TO DISPLAY BOARD
P3	1	xxx	6 PIN PC PLUG
P4,5,6	3	xxx	10 PIN PC PLUG
P7	1	xxx	2 PIN PC PLUG
P7	1	xxx	12 PIN PC PLUG
U2	1	413892	EPROM CHIP, 27C512
U12	1	xxx	PIC
U16-U25	8	411282	DPA4111 AC SWITCH CHIP
U26, U27	2	412682	PC817 OPTO ISOLATOR
U28-U35	8	xxx	MID400 SWITCH CHIP

MK.	DATE	REVISION	DESCRIPTION
			MAIN CONTROL BOARD (DRYER) MIQUEST
			THORESON McCOSH W5649 COUNTY ROAD 342 WALLACE, MICHIGAN PH. 906-914-4180 FAX:906-914-4179
			SCALE DATE DR. BY DRAWING NO.
			NOT TO SCALE 07-22-98 G L K 413731-A

- 1) Disconnect power from the dryer.
- 2) Unplug the P5,P6,P7, terminal blocks and the Ribbon cable at P2.
- 3) If unit has SPI option (P3) or R8I/O connected (P1) disconnect these as well.
- 4) Remove the 4 corner screws from the board. (Some boards will also have a 5th screw in the middle of the board.
- 5) Gently pry the EPROM chip (U2) from the old board.
- 6) Press the EPROM chip into the new board at location U2.Ensure the notch in the chip lines up with the notch in the silkscreen on the board(NOTE: IF THE CHIP IS PUT IN BACKWARDS, THE CHIP WILL BE DAMAGED WHEN POWER IS APPLIED)
- 7) Plug the terminal blocks and the ribbon cable into the new board.
- 8) Reconnect power and turn the unit on. All of the setpoints will need to be reset before using for production.