

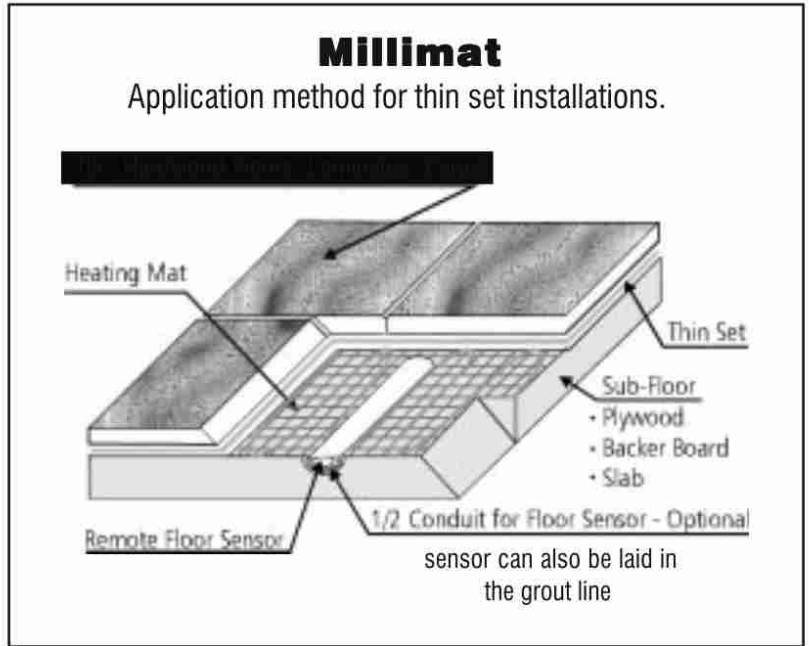
ELECTRICAL INSTALLATION NOTES:

If the total amperage draw on the floor being controlled by a single thermostat with built in GFIC doesn't exceed 16 amps then a GFIC breaker is not required. If 16 amps is exceeded then GFIC protection must be installed at the breaker.

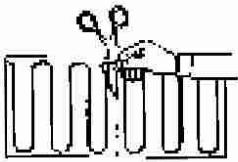
Install the floor sensor feeding it into the top of the conduit until it hits the end in the floor.

Now feed the lead from the mat up the second conduit. Once fed into the gang box the leads can be cut to accommodate the required length.

See the enclosed wiring diagrams for thermostat wiring.



TYPICAL LAYOUT



Note: Always cut between the cable never cut the Black wire

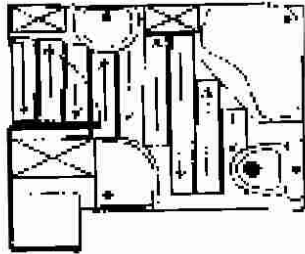
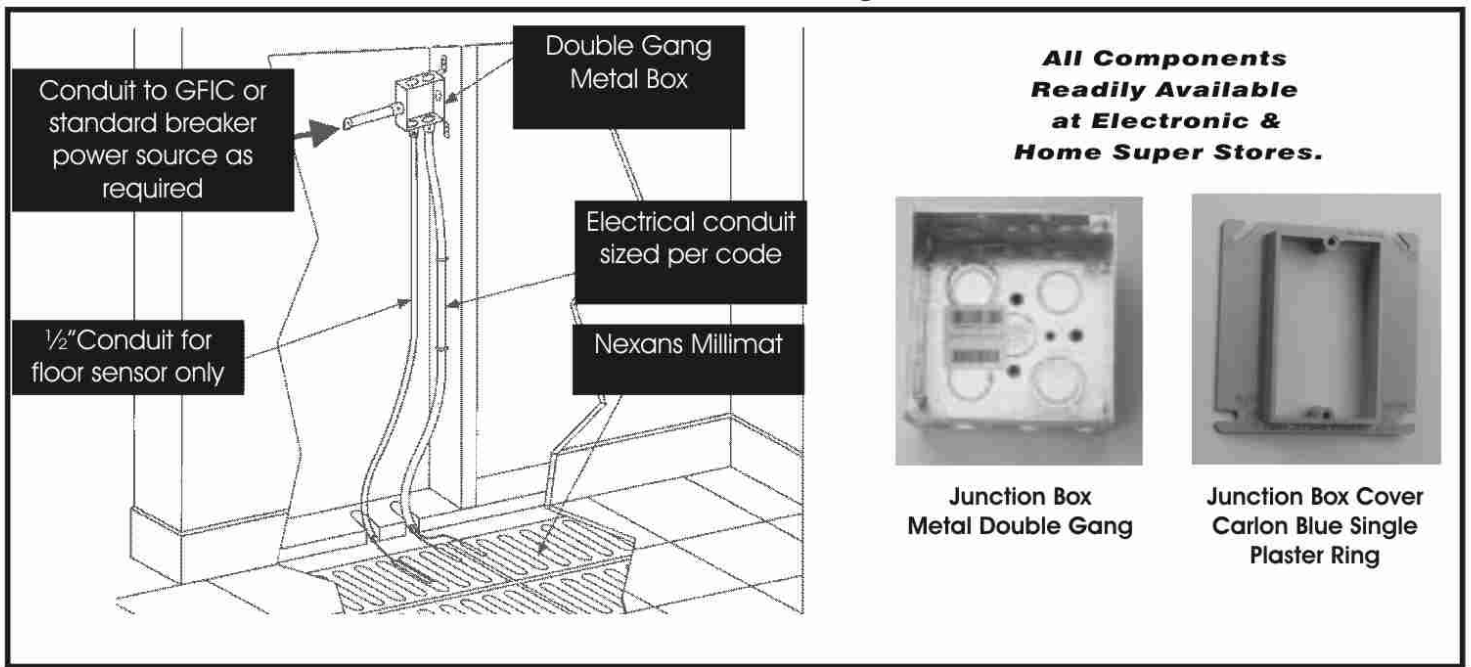


Fig. 3

Electrical Installation Diagram



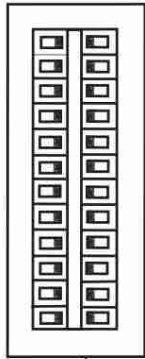
230 VOLT MILLIMAT SPECIFICATIONS

MODEL NO.	WATTS	WIDTH	LENGTH	OHMS	AMPS	SQ/FT
230V 100W	100	16"	71"	529	0.43	8
230V 150W	150	16"	106"	353	0.63	12
230V 200W	200	16"	141"	265	0.87	16
230V 300W	300	16"	209"	176	1.3	23
230V 400W	400	16"	279"	132	1.7	31
230V 500W	500	16"	346"	103	2.2	38
230V 600W	600	32"	216"	88	2.6	48
230V 700W	700	32"	256"	76	3	57
230V 840W	840	32"	303"	63	3.7	67
230V 1000W	1000	32"	362"	53	4.4	80

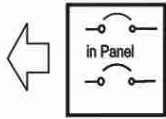
120 VOLT MILLIMAT SPECIFICATIONS

MODEL NO.	WATTS	WIDTH	LENGTH	OHMS	AMPS	SQ/FT
120V 100W	100	16"	67"	144	0.83	7
120V 200W	200	16"	145"	72	1.7	16
120V 400W	400	16"	271"	36	3.3	30
120V 550W	550	16"	364"	26	4.6	40
120V 750W	750	32"	264"	19	6.3	59
120V 1000W	1000	32"	338"	14	8.3	75

Owners Circuit Breaker Panel



220,230 OR 240 VOLT
Circuit Breaker



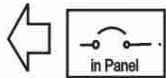
Red wire → THE POWER LEAD FOR THE THERMOSTAT
Black wire → (If the Millimat is 220, 230 or 240 volt)

**SUGGESTED WIRING TO BE PERFORMED BY LICENSED ELECTRICIAN
IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE
AND FEDERAL REQUIREMENTS**

Caution: Supply the Millimat with the voltage it was tagged with at the factory
NEVER EVER CUT THE HEATING CABLE

POWER LEADS FOR THE THERMOSTAT

If the Millimat voltage is 120 volts use the bottom left circuit breaker diagram
If the Millimat voltage is 220, 230 or 240 volts use the top left circuit breaker wiring diagram



120 Volt
Circuit Breaker

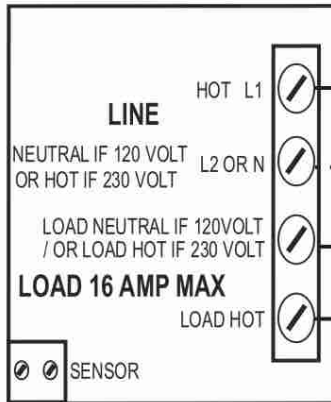
Black wire → THE POWER LEAD FOR THE THERMOSTAT
(If the voltage of the Millimat is 120)

White wire → TO THE NEUTRAL BUSS IN THE CIRCUIT BREAKER PANEL

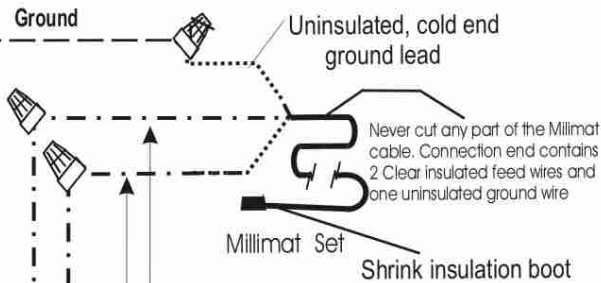
Bare copper wire

Metal, single gang wall box
Box must be grounded.

UCCG-9991 OR 9999 THERMOSTAT



To Floor Sensor
(Polarity is not important)



MILLIMAT CURRENT MUST NOT EXCEED 16 AMPS

**UCCG THERMOSTAT WIRING DIAGRAM
120/240 LINE VOLTAGE, 16 AMP MAX. LOAD**

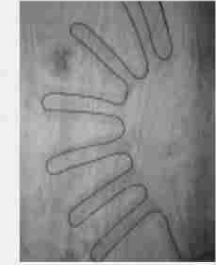
IMPORTANT: The supply voltage used for the Millimat should be the same voltage used for the thermostat.

DO NOT MIX

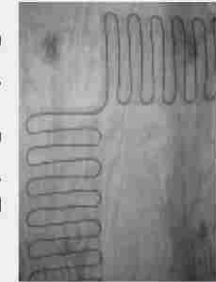
Flip Turn



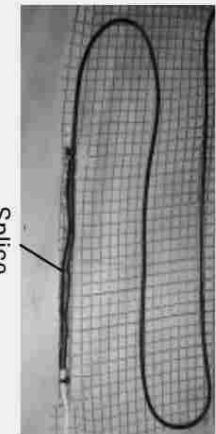
Fan Turn



Back to Back Turn

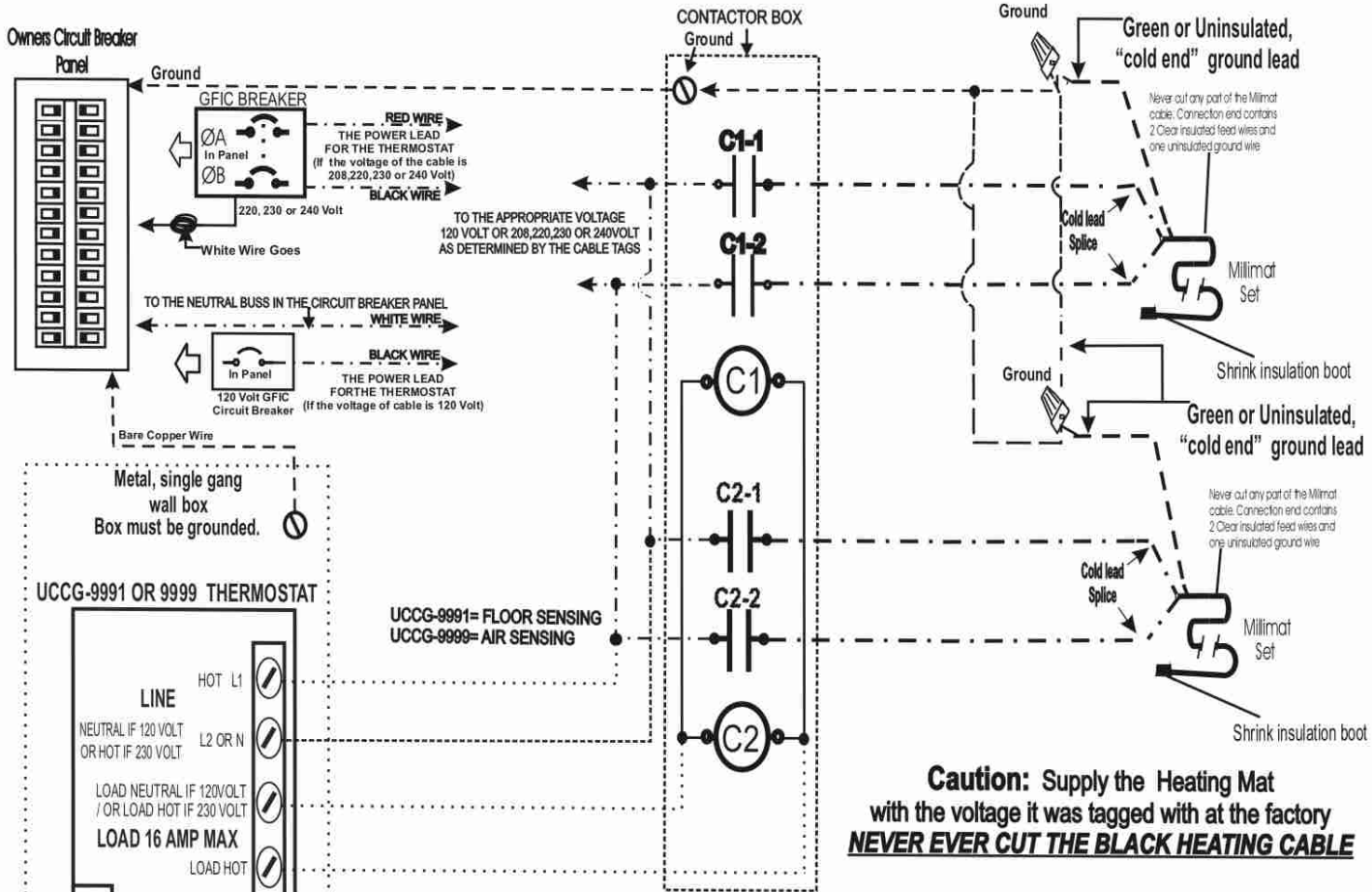


Splice



TYPICAL CONFIGURATIONS

**SUGGESTED WIRING TO BE PERFORMED BY LICENSED ELECTRICIAN
IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE
AND FEDERAL REQUIREMENTS**



**Caution: Supply the Heating Mat with the voltage it was tagged with at the factory
NEVER EVER CUT THE BLACK HEATING CABLE**

IMPORTANT: The supply voltage used for the heating cable should be the same voltage used for the thermostat.

DO NOT MIX VOLTAGES

**UCCG THERMOSTAT WITH CONTACTORS
120/240 VOLT PILOT DUTY DIAGRAM**

