



Minda M100

Next Generation
Cooker Control Board

USER MANUAL



Mina M100

Next Generation
Cooker Control Board

Factory Address:

Phone:

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E-Mail:

Webpage:

Document Version: V: 0.0.1

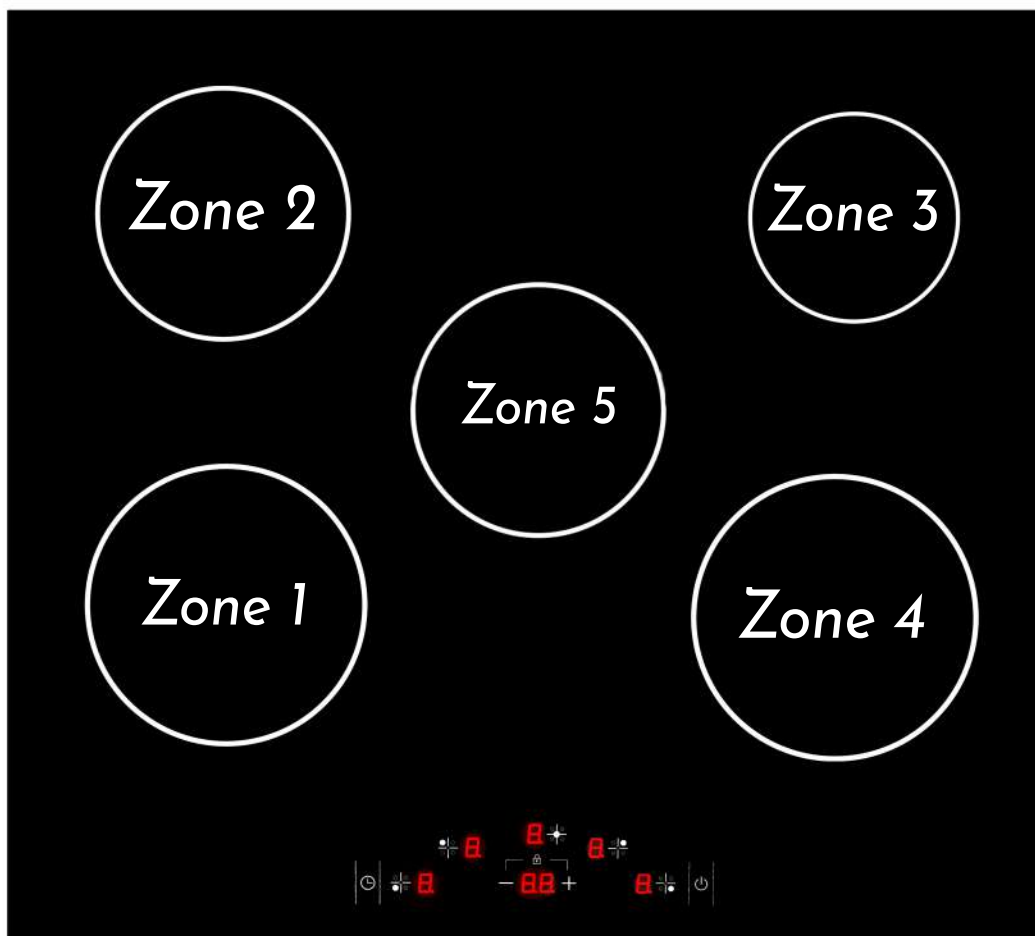
Hardware Version: V: 1.0.1 / V: 0.9

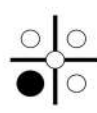
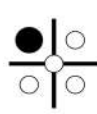
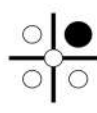
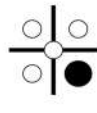

Software Version: V: 0.0.1




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1. BUTTONS AND THEIR FUNCTIONS



-  **ZONE 1:** Switches to the level setting of the first zone.
-  **ZONE 2:** Switches to the level setting of the second zone.
-  **ZONE 3:** Switches to the level setting of the third zone.
-  **ZONE 4:** Switches to the level setting of the fourth zone.
-  **ZONE 5:** Switches to the level setting of the fifth zone.

-  **PLUS:** Increases the level setting.
-  **MINUS:** Decreases the level setting.
-  **TIMER:** Switches to the timer setting

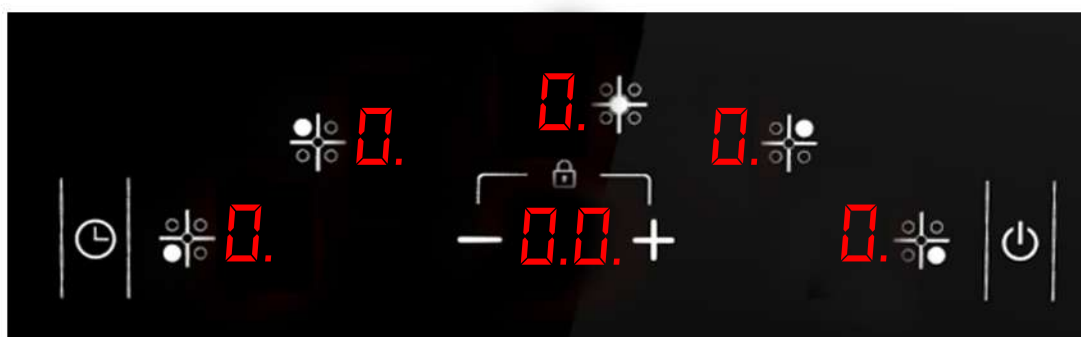
2. USING THE COOKER

When powered up, the displays of the Mina M100 cooker controller light up sequentially for a short while, emit an audible warning, then turn off.

When the "⏻" button is pressed, the indicators show "0" and the cooker is made ready for use.

By pressing the button of the zone to be opened ("●○○", "●○○", "●○○", "●○○", "●○○") the setting of that zone is started, the display corresponding to the relevant zone starts to blink.

With the "+" "-" buttons, the zone level is brought to the desired level. To exit the zone setting, press the zone button again.



The adjusted zone will continue to operate at the desired setting by getting on and off at varying intervals according to its level.

In order to close an operating zone, the zone is adjusted by pressing the button of that zone. By pressing the "⏻" button for a short time, the zone setting is set to "0" and the zone is closed. When the "⏻" button is long pressed, all the zones and the cooker control unit are turned off.

2.1 Keeping Warm Function

Mina M100 cooker control unit has a keep-warm function, which is activated when any zone is turned off. After the zone is turned off, it can be kept warm for a while, so that the food stays hot or some ingredients are melted. In this case, "H" warning appears on the display. When the zone gets too cold to keep the food warm, the display shows "h" as it is still hot to the touch. When it has completely cooled down, the display is turned off.



2.2 Safety Turn Off Feature

As a safety measurement, if any zone operates more than a certain time according to the level, will be turns off automatically. The maximum operating time for each level are given in the Table 1.

- Table 1: Maximum Operating Time

LEVEL	Maximum Operating Time (min)
U	120
1	360
2	360
3	300
4	300
5	240
6	90
7	90
8	90
9	90

3. DUAL ZONE FEATURE

In some models of Mina M100 some of the zones have a dual resistance. In order to activate dual in the zones with dual feature, “” and “+” buttons is pressed at the same time while the zone is in level setting. The LED indicator of the relevant zone lights up and its dual becomes active. To turn off the active Dual zone feature, level setting is entered by pressing the button of the relevant zone. By pressing the “” and “-” buttons at the same time, the dual is turned off and the corresponding LED turns off.



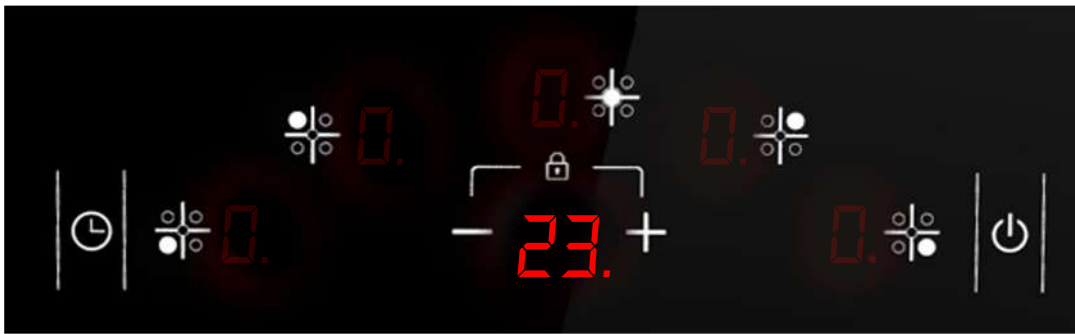
4. TIMER FEATURE

Mina M100 cooker control unit has a general purpose cooker independent timer and one zone timer for each zone. The general timer only gives an audible warning at the end of the set time and does not affect the cooker. The zone timer, on the other hand, gives an audible warning at the end of the set time and closes the relevant zone. 5 different zone timers can be set at the same time for 5 zone.

4.1 Setting General Timer

In order to set the general timer, the "🕒" button is pressed while the cooker is in the ready state, while not in the setting of any zone. The digits and dot of the timer display begin to flash.

With the "+" - "-" buttons, the timer is set to the desired time between 1 - 99 minutes. Pressing the "🕒" button exits the timer setting. At the end of the set time, an audible warning is given.

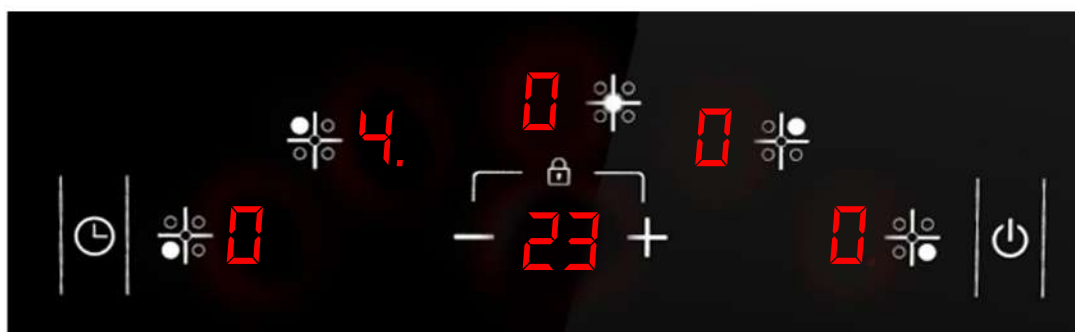


4.2 Setting Zone Timer

By pressing the button dot of the zone display you want to open ("🔴", "🔵", "🟢", "🟡", "🟠"), the setting of that zone is changed and the zone is adjusted to the desired level with the "+" - "-" buttons.

While in zone setting, "🕒" button is pressed and timer is set for the relevant zone. The timer display corresponding to the zone begin to blink. The zone timer is set to the desired time between 1 - 99 minutes with the "+" - "-" buttons.

Pressing the "🕒" button exits the timer setting. At the end of the set time, the relevant zone is closed and an audible warning is given.



4.3 Showing the Timer

If more than one timer is set, the timer display shows the remaining time of the shortest timer. Whichever timer is displayed on the timer display, the LED of the zone timer or if it is the general timer, the dot of the display blinks.

When the “🕒” button is pressed while in ready mode, the general timer setting is changed and the general timer is displayed.

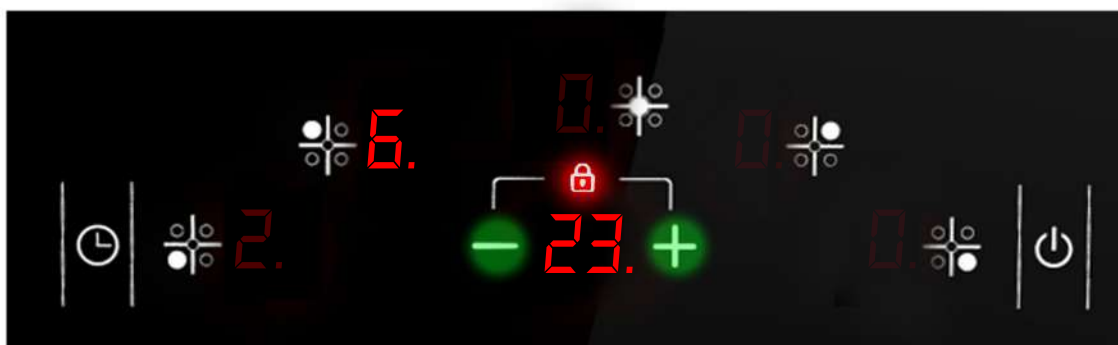
By pressing the “🕒” button again, it is possible to toggle between the remaining times of the zone timers in clockwise order starting from the bottom left zone.

5. CHILD SAFETY LOCK FEATURE

Mina M100 has a child safety lock feature so that children do not accidentally operate the cooker.

Child safety lock can be activated by pressing and holding “+” & “-” buttons while in ready mode. When it is activated, cooker turns off.

While child lock is activated, the child lock LED is lit and cooker cannot be started. Child key lock can be deactivated by pressing and holding “+” & “-” buttons.

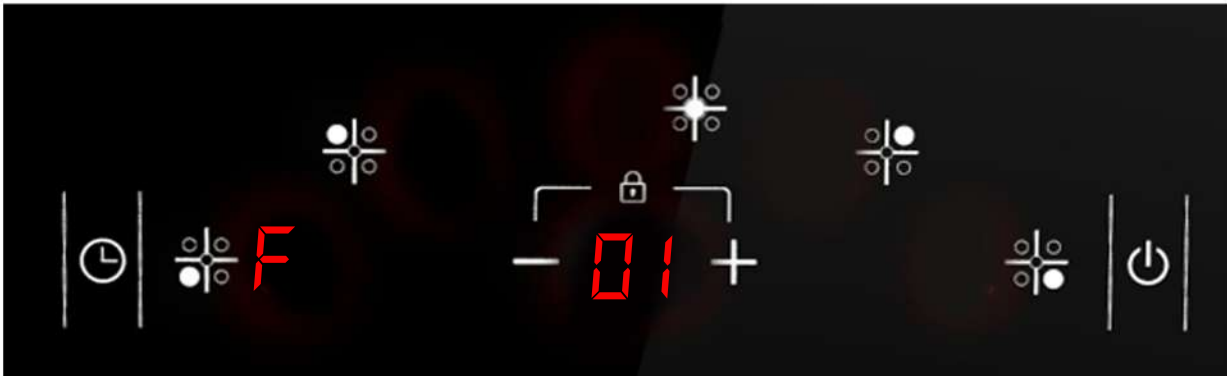


6. ERROR CODES

If the situations below occur, Mina M100 cooker controller board will go into error state. While in the error state, all zones are turns off and an error code will be displayed.

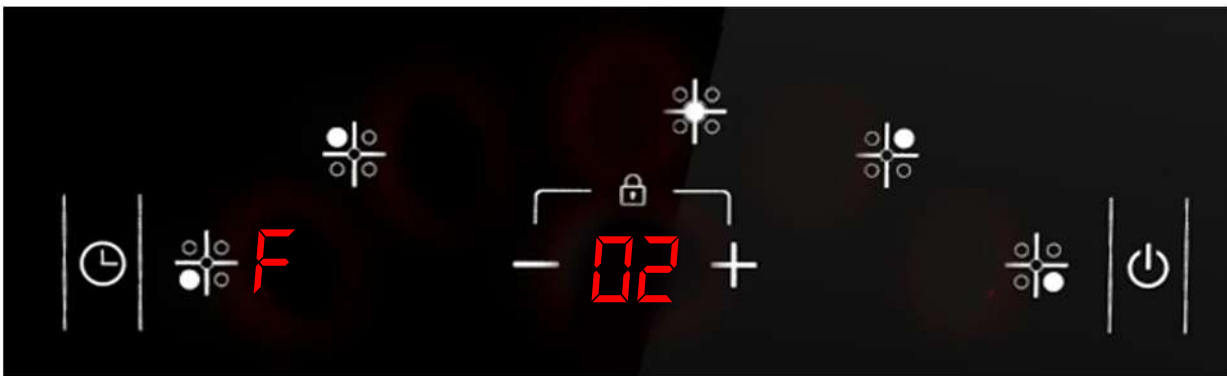
6.1 Single Button Error

If any of the button sensors is sensed touch more than 10 seconds, this error occurs and "F01" error code is displayed.



6.2 Multiple Button Error

If more than 2 button sensors are sensed touch more than 10 seconds, this error occurs and "F02" error code is displayed.



6.3 Possible Solutions for Errors

Both errors can be due to spilling liquid or the pot coming over the control unit. Please make sure that there is no object on the control unit and wipe the control unit of the hob glass carefully.

Once the problem caused the error has been corrected, the hob will resume normal operation.

If error situation still continues, please unplug the hob or switch off the fuse breaker for 10 seconds.

7. ELECTRICAL SPECIFICATIONS

○ Main Power Supply	90-265 VAC , 50/60 Hz
○ Operation Temperature	0°C - 105 °C
○ Standby Power Consumption	< 0.5 W

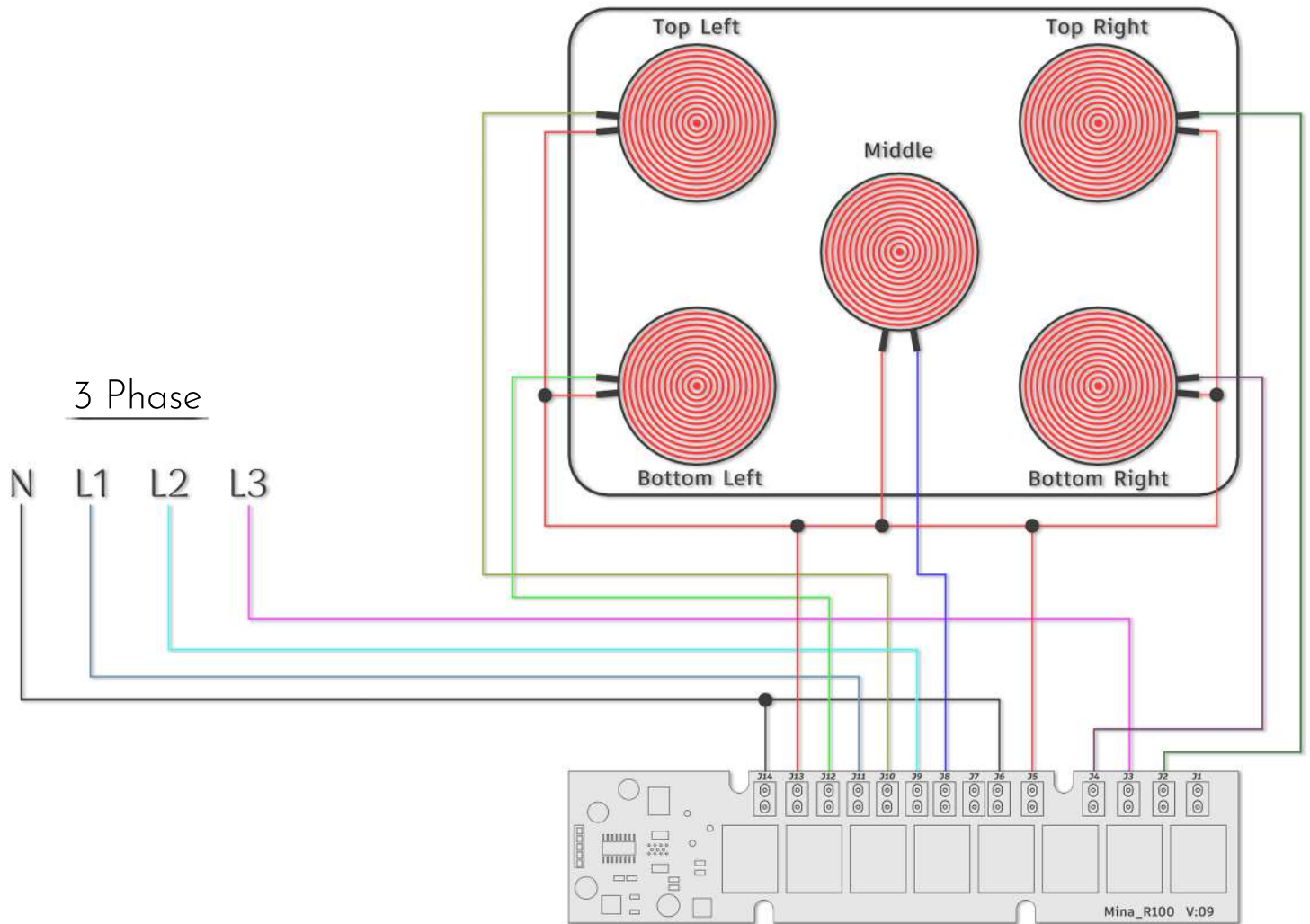
8. ELECTRICAL WIRING DIAGRAMS

Mina M100 cooker control unit can be used in 5 different cooker models with software differences. In the Table 2, it can be shown the models and corresponding cooker zone configuration. The electrical wiring diagrams of these models are different from each other.

Table 2: Mina M100 Software Models

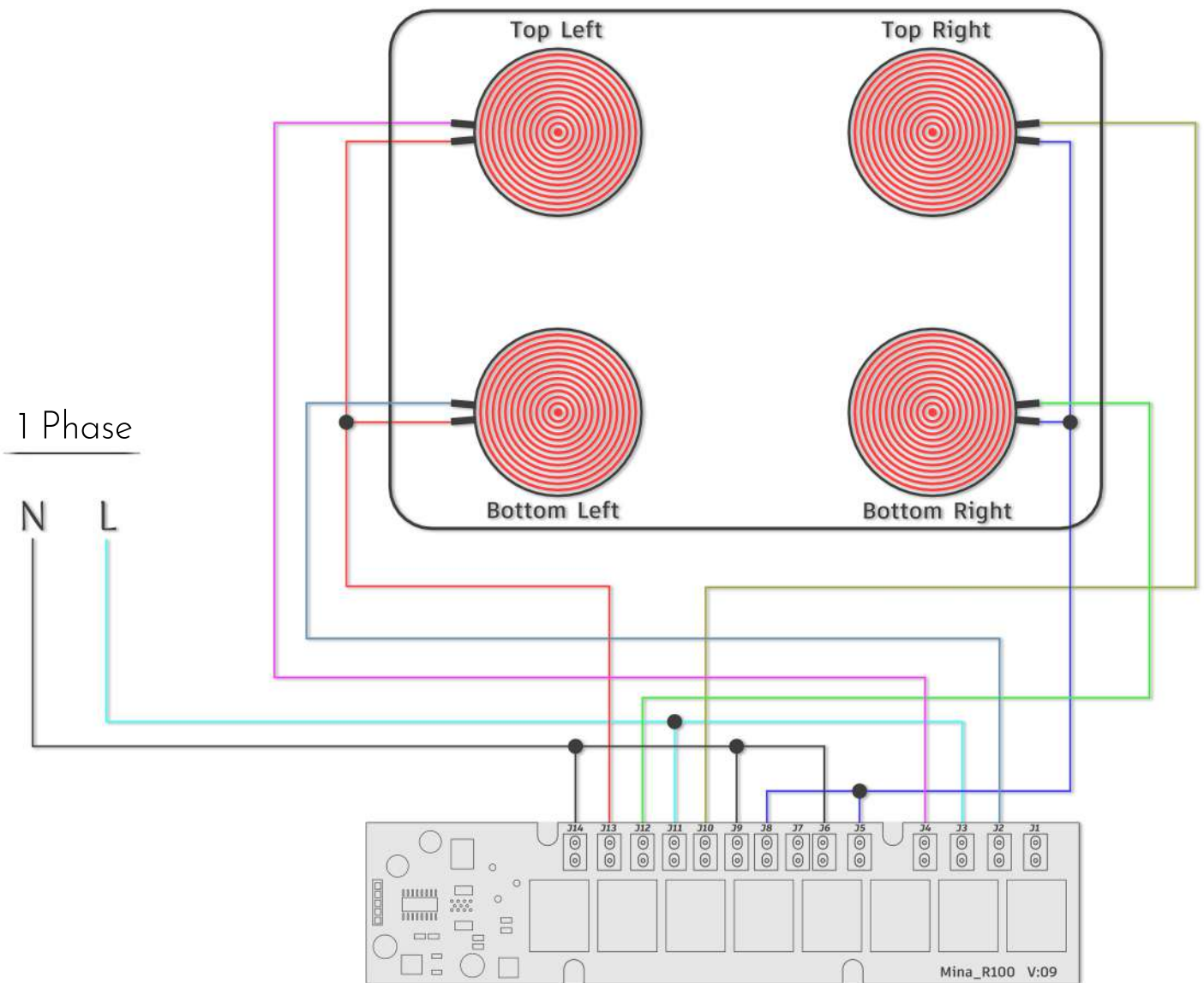
Model 1	5 Zone Single
Model 2	4 Zone Single
Model 3	5 Zone Middle Double/Dual
Model 4	5 Zone Top Left Double
Model 5	5 Zone Middle Triple

8.1 MODEL 1



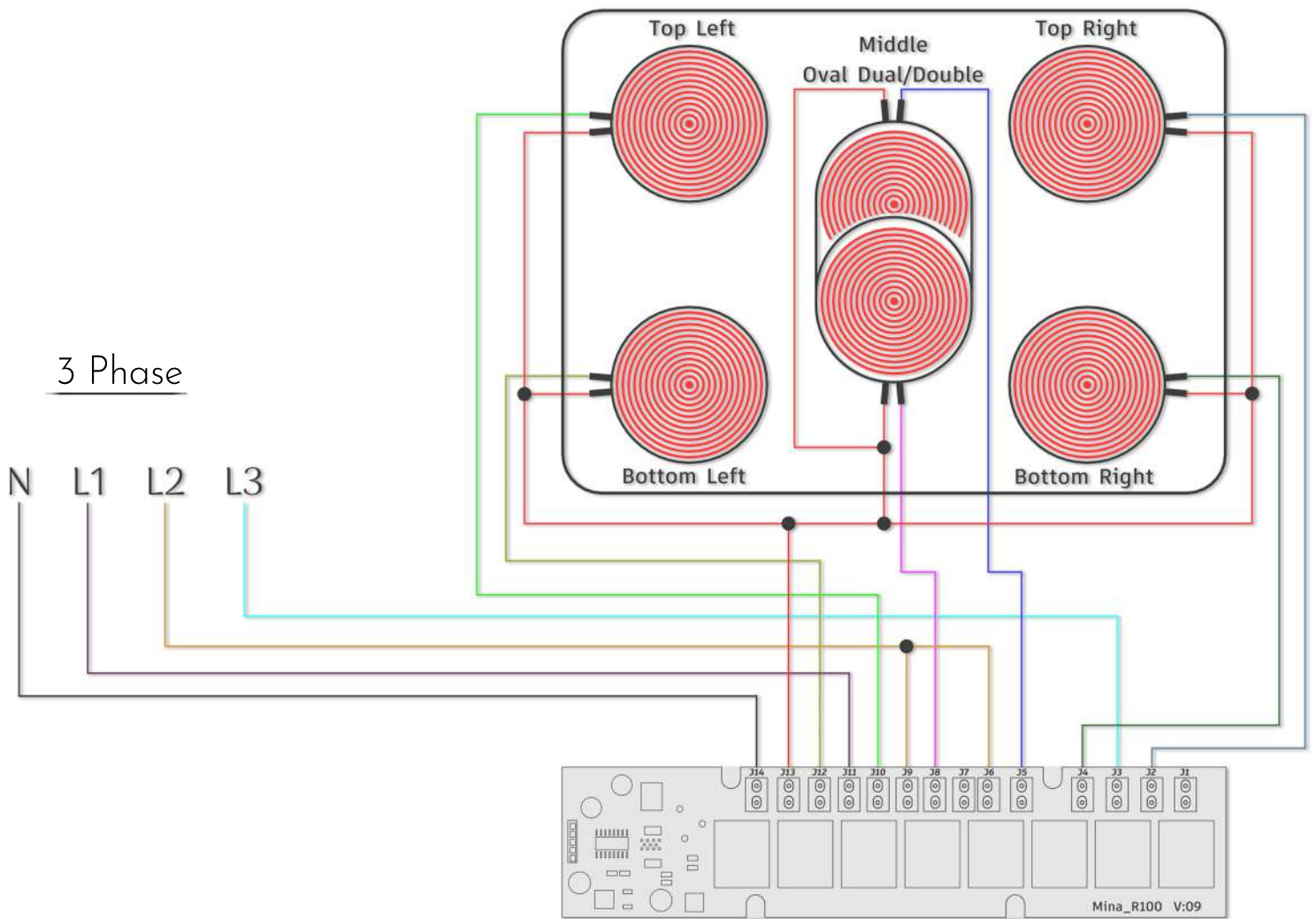
Model 1 - 5 Zone (Single)		
N		J14
		J6
L1		J11
L2		J9
L3		J3
J13	BOTTOM LEFT	J12
J5		
J13	TOP LEFT	J10
J5		
J13	MIDDLE	J8
J5		
J13	TOP RIGHT	J2
J5		
J13	BOTTOM RIGHT	J4
J5		

8.2 MODEL 2



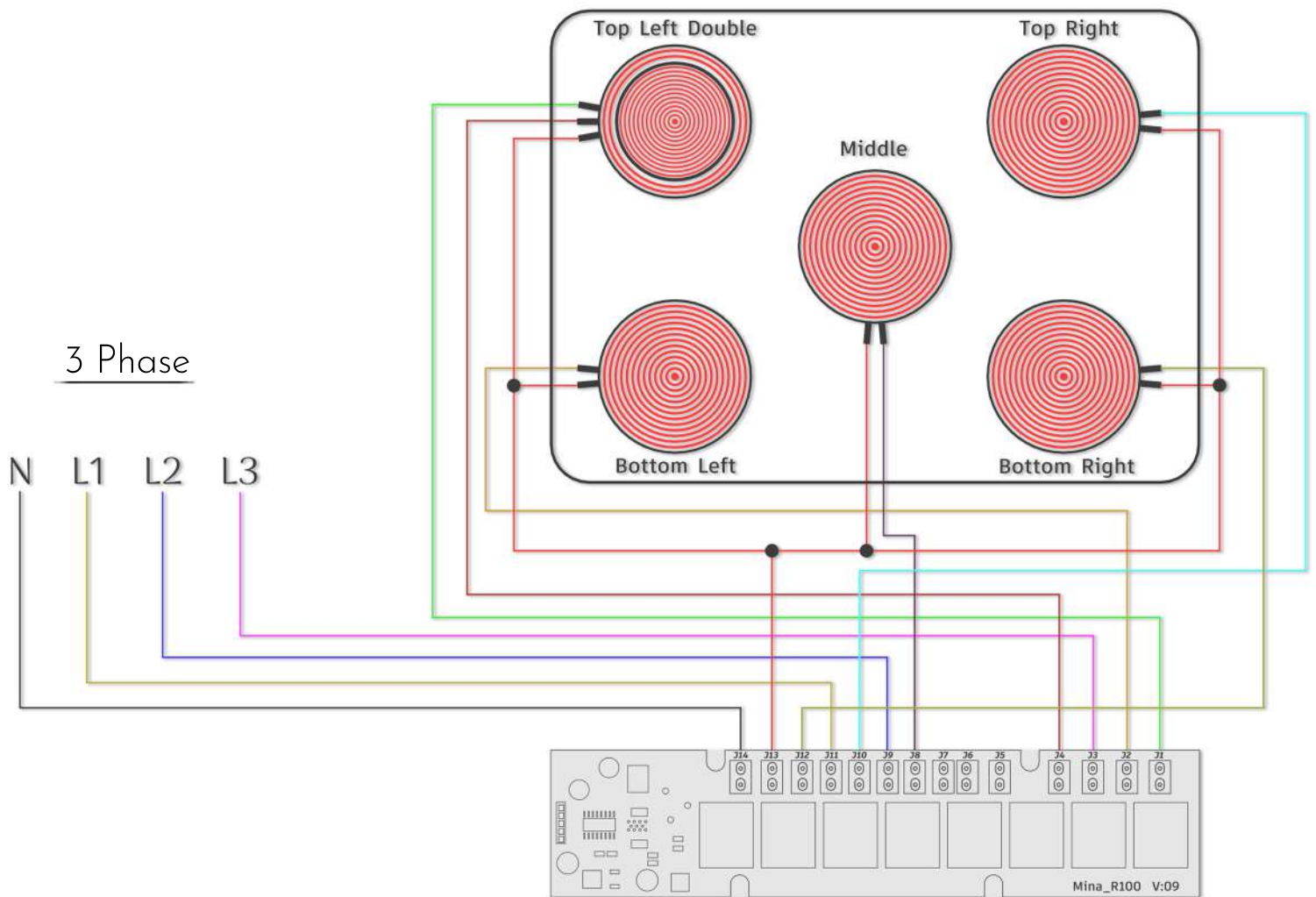
Model 2 - 4 Zone (Single)		
N		J14
		J9
		J6
L		J11
		J3
J13	BOTTOM LEFT	J2
	TOP LEFT	J4
J5	TOP RIGHT	J10
J8		
J5	BOTTOM RIGHT	J12
J8		

8.3 MODEL 3



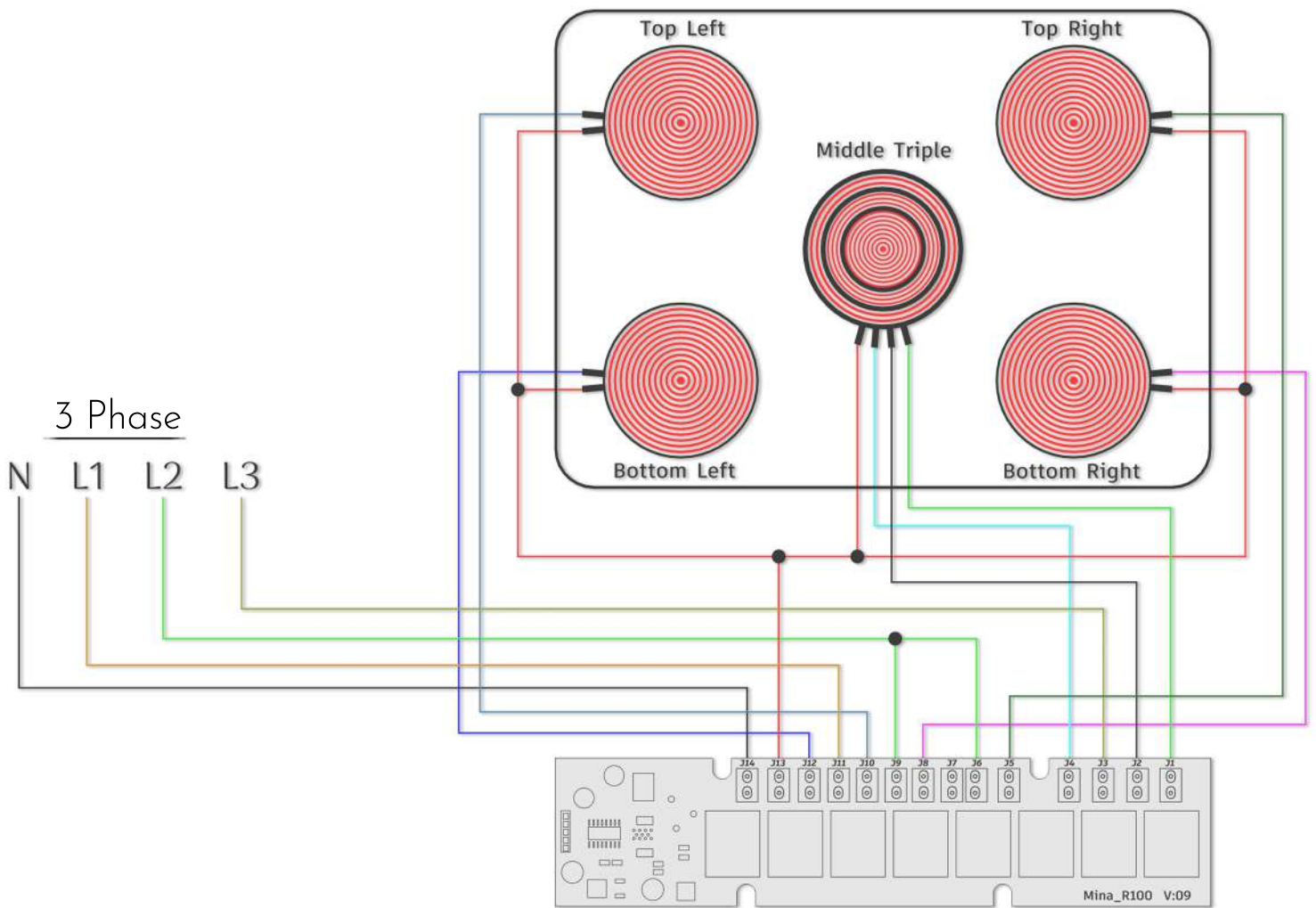
Model 3 - 5 Zone (Middle Double)		
N		J14
L1		J11
L2		J9
		J6
L3		J3
J13	BOTTOM LEFT	J12
	TOP LEFT	J10
	MIDDLE	J8
	MIDDLE DOUBLE	J5
	TOP RIGHT	J2
	BOTTOM RIGHT	J4

8.4 MODEL 4



Model 4 - 5 Zone (Top Left Double)		
N		J14
L1		J11
L2		J9
L3		J3
J13	BOTTOM LEFT	J2
	TOP LEFT	J4
	TOP LEFT DOUBLE	J1
	MIDDLE	J8
	TOP RIGHT	J10
	BOTTOM RIGHT	J12

8.5 MODEL 5



Model 5 - 5 Zone (Middle Triple)		
N		J14
L1		J11
L2		J9
		J6
L3		J3
J13	BOTTOM LEFT	J12
	TOP LEFT	J10
	MIDDLE	J4
	MIDDLE DOUBLE	J2
	MIDDLE TRIPLE	J1
	TOP RIGHT	J5
	BOTTOM RIGHT	J8

9. 3D BOARD VISUALS

