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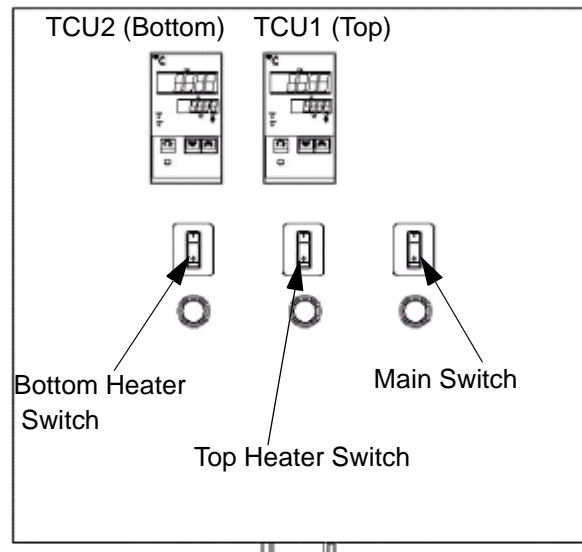
1. Preparation

1-1 Overview

This procedure describes how to turn the TCU power and how to adjust the Magnet Temperature by TCU.

2. TCU Power ON

1. Turn the TCU Main Switch ON.
2. Turn the Top and Bottom magnet Heater Switch ON.



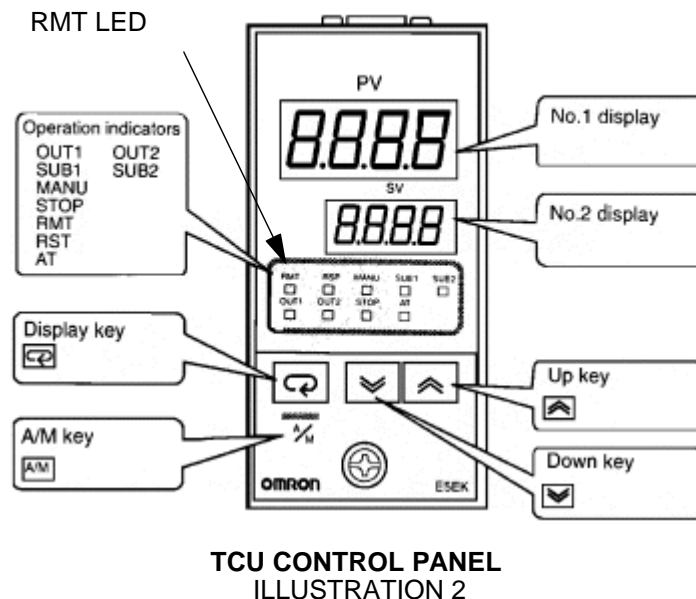
**TCU POWER ON
ILLUSTRATION 1**














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3. Temperature Adjustment



3-1 Set to Local Mode

If the "RMT" LED is lit, perform this procedure. Otherwise, perform 3-2.



1. On the front of the controller press and hold the  (Display) key till the No.2 display changes. The No. 2 display will read: 
2. Press the  (UP) key twice. The No.2 display should read .
3. Press and hold the  key till the No.2 display changes.
The No.2 Display should read .
4. Press the  (Down) key once. The No. 2 display will read .
5. Press and hold the  key till the No. 2 display changes.
The No.2 Display should read .
6. Press the  key twice. The No. 2 display will read: .
7. Press and hold the  key till the No. 2 display changes.
8. Perform 2-2 "Temperature Adjustment.

3-2 Temperature Adjustment

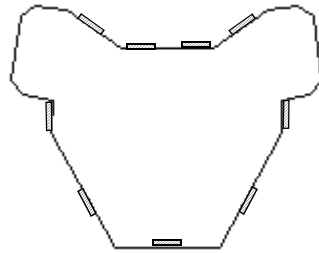
1. Press the  (UP) key or the  (Down) key until Display2 read the Target Temperature.

Final Target = The value calculated by TCU calculation program

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4. Functional Check

Touch Heaters on Magnet and verify that the Heater is gradually getting warmer. There are 18 heaters under the Magnet insulators. (9 heaters on top yoke and 9 heaters on bottom yoke.)



9 heater for each yoke.

**HEATER LOCATION
ILLUSTRATION 3**

5. Estimate stabilization time of the magnet temperature

Refer to the following table for the magnet temperature stabilization time.

Tp	5	10	15	20	25
y1	5640	1530	820	390	99
y2	2014.8	1612.8	1210.8	808.8	406.8
Y(min)	7654.8	3142.8	2030.8	1198.8	505.8
Y(hour)	127.6	52.4	33.8	20.0	8.4

- Tp: Magnet Initial Temperature.(Temperature of TCU when TCU heater is turned on)
- y1: Time while TCU Duty is 100%
- y2: Time until magnet temperature is stabilized (30°C, 50Hz/min) after y1.
- Y: Time until magnet temperature is stabilized (30°C, 50Hz/min) after TCU heater Power ON (y1+y2)

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Revision History

Rev	Date	Author	Primary Reasons For Change
0	Feb 5, 2002	Y. Masumo	Initial Version