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Rev 0

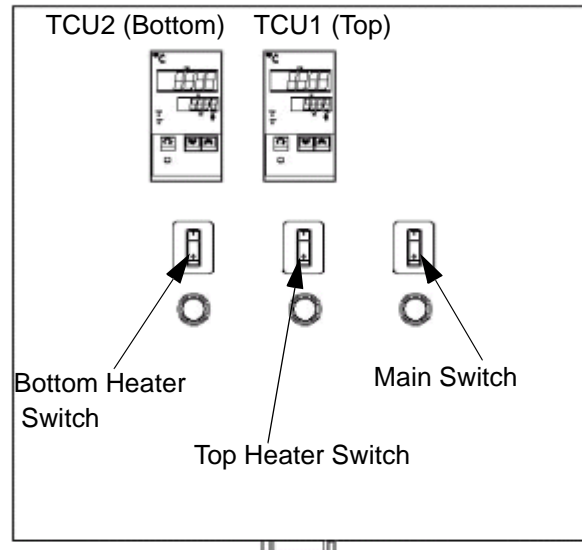
## 1. Preparation

### 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.



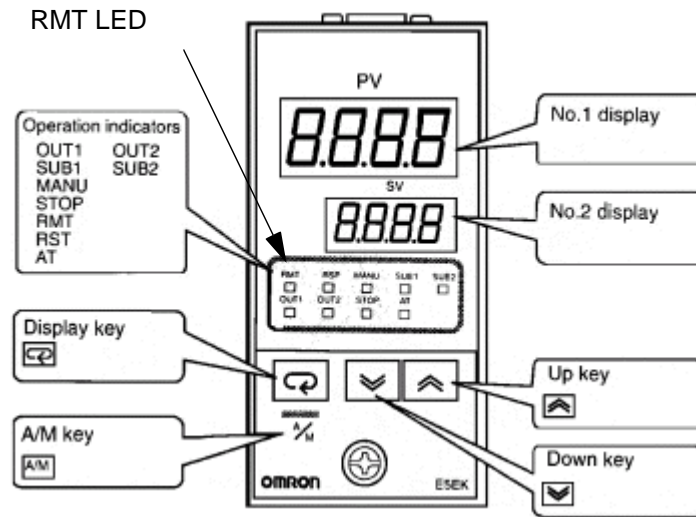
**TCU POWER ON  
ILLUSTRATION 1**

Rev 1



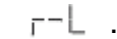









### 3. Temperature Adjustment

#### 3-1 Set to Local Mode



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



**TCU CONTROL PANEL**  
ILLUSTRATION 2

1. On the front of the controller press and hold the  (Display) key till the No.2 display changes.
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.1 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

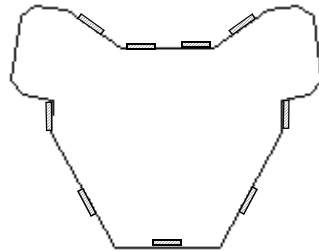
1. Press the  (UP) key or the  (Down) key until Display2 read the Target Temperature.

**Initial Target = 30°C**

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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.

<b>Tp</b>	5	10	15	20	25
<b>y1</b>	5640	1530	820	390	99
<b>y2</b>	2014.8	1612.8	1210.8	808.8	406.8
<b>Y(min)</b>	7654.8	3142.8	2030.8	1198.8	505.8
<b>Y(hour)</b>	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**

<b>Rev</b>	<b>Date</b>	<b>Author</b>	<b>Primary Reasons For Change</b>
0	Jan 14, 2001	Y. Masumo	Initial Version
1	June 4, 2001	Y. Masumo	Misc Correction