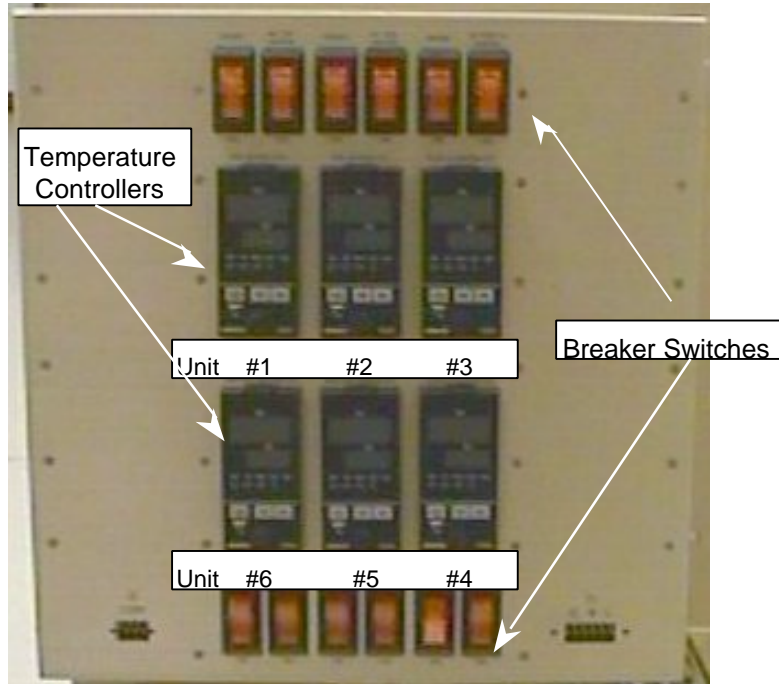


TABLE OF CONTENTS

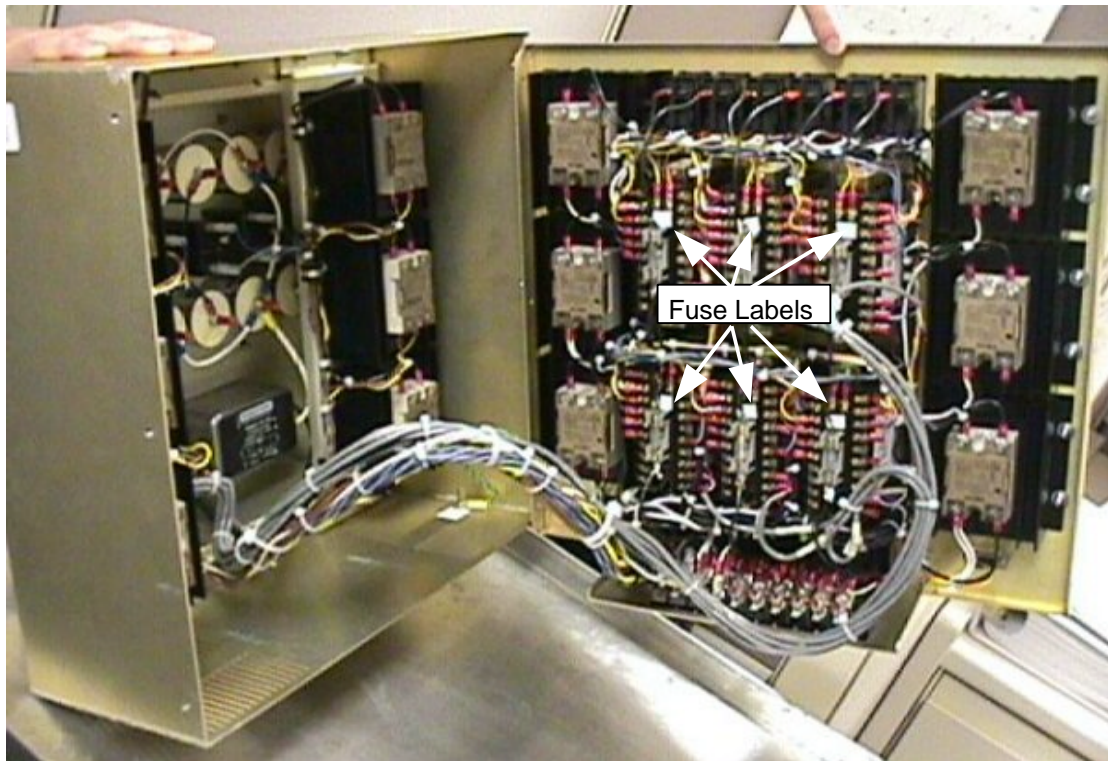
TABLE OF CONTENTS	1
1-TEMPERATURE CONTROL UNIT REPLACEMENT PROCEDURE	2
1-1 FRU 1s for TCU Assembly	3
2- TEMPERATURE CONTROLLER	4
2-1 Removal/Replacement	4
2-2 Program Unit Number	6
3- FUSE REMOVAL/REPLACEMENT	8
3-1 Fuse Check	10
REVISION HISTORY	11

1-TEMPERATURE CONTROL UNIT REPLACEMENT PROCEDURE

This procedure describes the installation of the Temperature Control Unit (TCU) into the Penetration Panel for the 0.7T High Field Open systems and FRU (1) replacements. See Illustration 1-1 and 1-2 for Assembly overview.



TCU ASSEMBLY--FRONT VIEW
ILLUSTRATION 1-1



INSIDE VIEW & FUSE LABEL LOCATION
 ILLUSTRATION 1-2

Fuse Replacement Guide

Label	Part Number	Type	Amps	Rated Voltage
F1	2270273	ABC-20	20	250
F2	2270273	ABC-20	20	250
F3	2270273	ABC-20	20	250
F4	2270273	ABC-20	20	250
F5	2270273	ABC-20	20	250
F6	2270273	ABC-20	20	250

1-1 FRU 1s for TCU Assembly

<u>Item</u>	<u>GE Part No.</u>	<u>Qty.</u>
Temperature Controller	2246701	1
Fuse	2270273	1

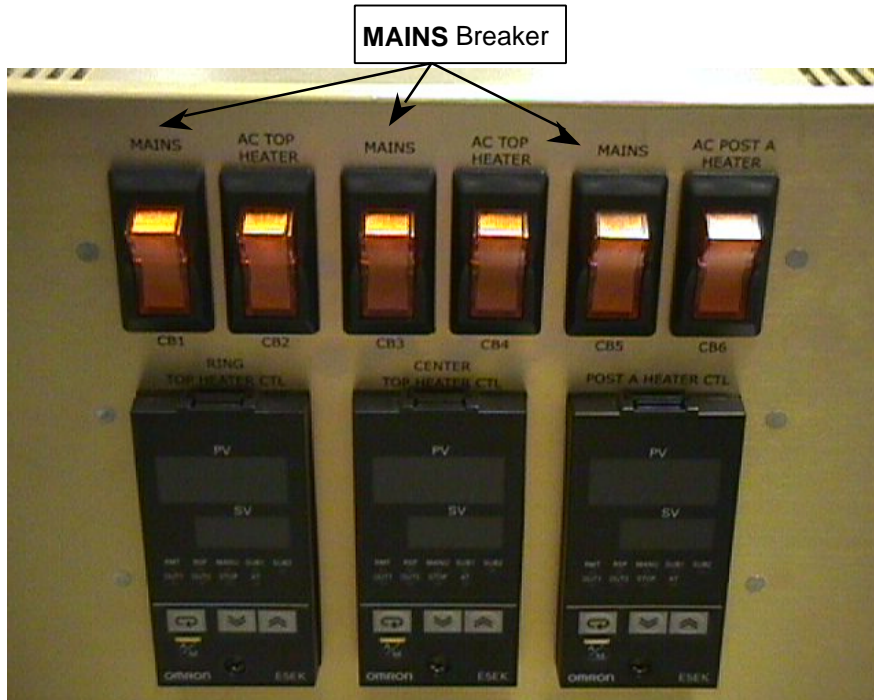
Tools

Phillips screwdriver

2- TEMPERATURE CONTROLLER

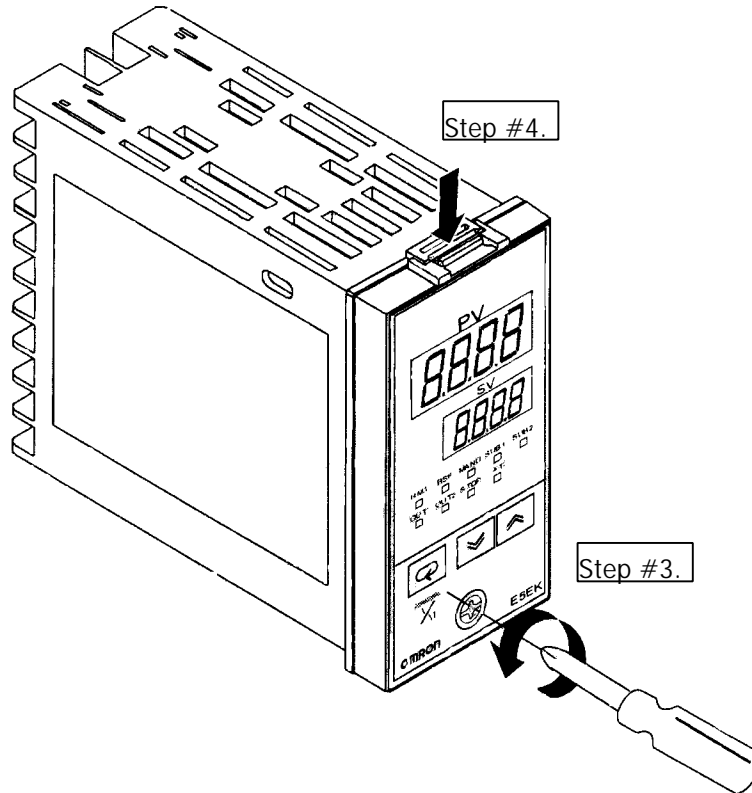
2-1 Removal/Replacement

1. Place the **Mains** Breaker of the controller being replaced in the OFF position. See Illustration 2-1.



TCU ASSEMBLY--UPPER FRONT VIEW
ILLUSTRATION 2-1

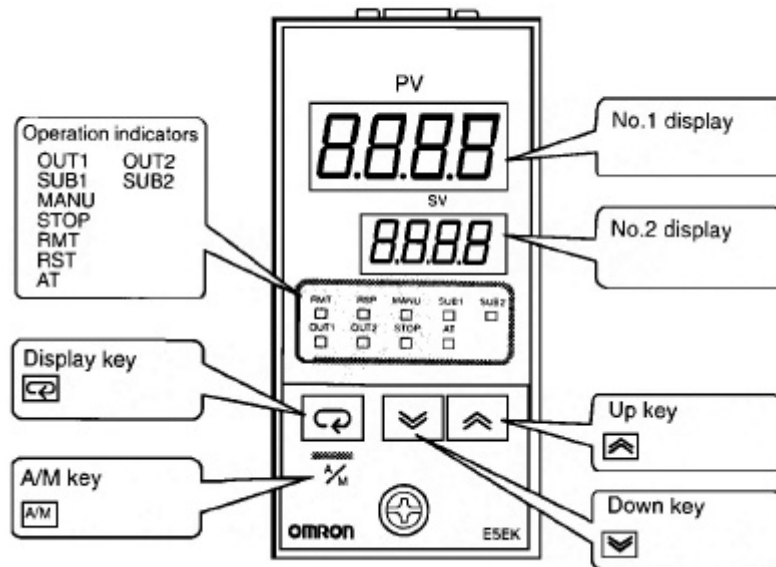
2. Remove circular sticker to access screw of controller. See Illustration 2-2.
3. Remove phillips screw. See Illustration 2-2.
4. Press down on the hook on the top of controller unit to release and pull controller out of the assembly. See Illustration 2-2.


















REMOVING TEMPERATURE CONTROLLER
ILLUSTRATION 2-2

5. Place new controller in assembly, use phillips screw to secure unit and place circular sticker over top of screw.

2-2 Program Unit Number



CONTROLLER--FRONT DISPLAY
ILLUSTRATION 2-3

1. On the front of the controller press and hold the  (Display) key till the No.1 display changes.
2. Press the  (UP) key twice. The No.1 display should read .
3. Press and hold the  key till the No.1 display changes.
4. Press the  (Down) key once. The No. 1 display will read .
5. Press and hold the  key till the No. 1 display changes.
6. Press the  key 3 times. The No. 1 display will read: .
7. Press and hold the  key till the No.1 display changes.
8. Press the  key 4 times. The No. 1 display will read: .
9. Use the  or  to change the No. 2 display to read the correct unit number as shown in Illustration 1-1.
10. Press and hold the  key till the No.1 display changes.


















11. Press the  key 4 times. The No. 1 display will read .
12. Press and hold the  key till the No.1 display changes.
13. Press the  key 8 times. The No. 1 display will read: .
14. Use the  or  to change the No. 2 display to read the correct unit number as shown below in Table 2-1.

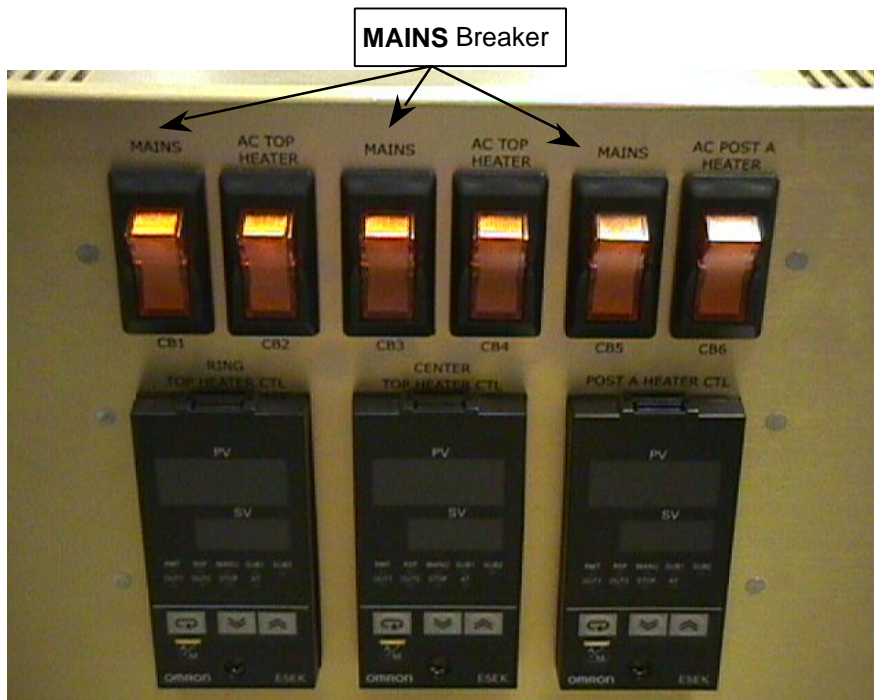
TABLE 2-1
VOLTAGE SETTINGS

Channels:	Voltage Setting:
1 & 6	4.4
2 & 5	1.9
3 & 4	0.9

15. Press and hold the  key till the No.1 display changes.
16. Press the  key once. The No.1 display should read .
17. Press and hold the  key till the No.1 display changes.
18. Press the  key once. The No.1 display should read .
19. Press and hold the  key till the No.1 display changes.
20. Press the  key twice. The No. 1 display will read .
21. Press and hold the  key till the No.1 display changes.

3- FUSE REMOVAL/REPLACEMENT

1. Place ALL the **Mains** Breakers in the OFF position. See Illustration 3-1.



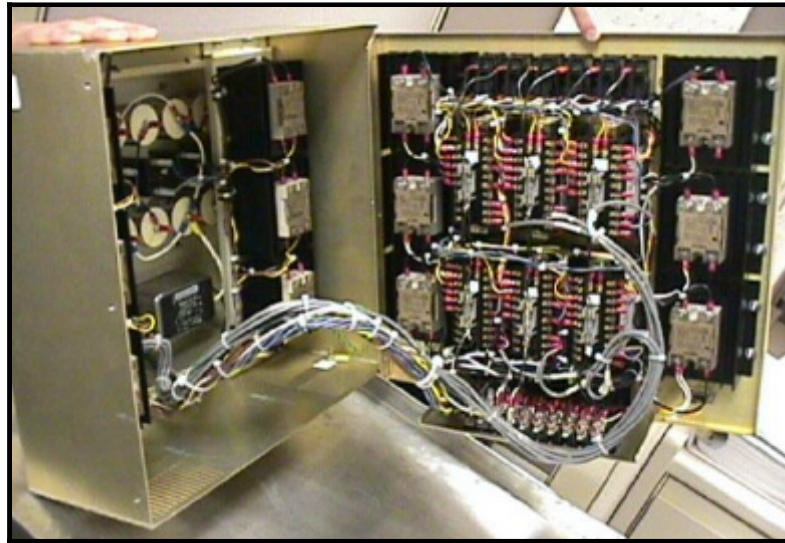
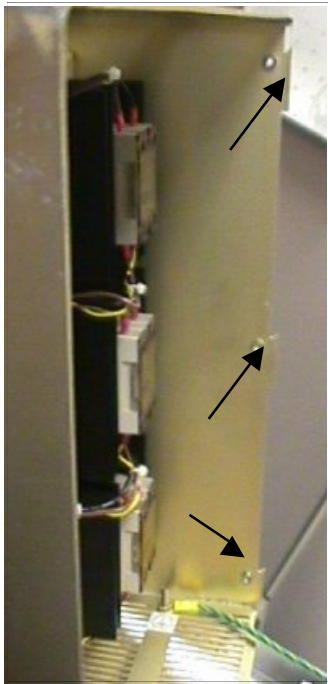
TCU ASSEMBLY--UPPER FRONT VIEW
ILLUSTRATION 3-1

2. Remove power to J1 at the Main Disconnect Panel.
3. Remove six (6) phillips-head screws (three from each side). See Illustration 3-2.



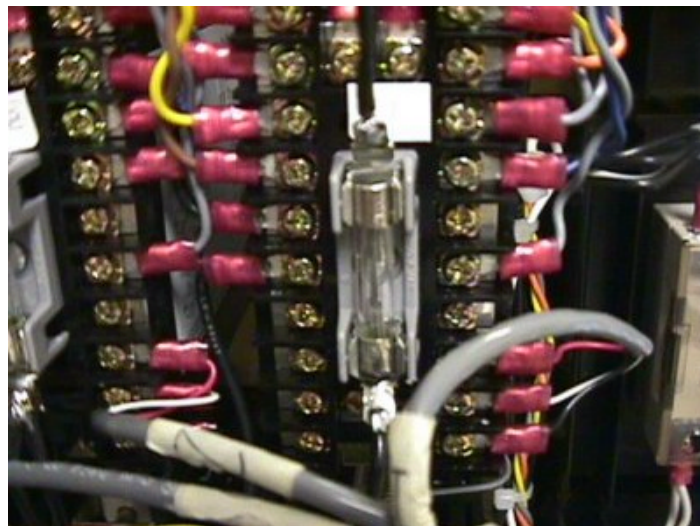
TCU SIDE SCREW LOCATIONS
ILLUSTRATION 3-2

- Carefully lift front cover off assembly and hang cover on the side hinges to support cover. See Illustration 3-3.



HANGING FRONT COVER
ILLUSTRATION 3-3

- Remove old fuse from back of temperature controller and replace with new fuse (2270273). See Illustration 3-4.



FUSE LOCATION
ILLUSTRATION 3-4

- Carefully lift front cover off hinge and replace on assembly.
- Replace six (6) phillips-head screws (three from each side).
- Power J1 at the Main Disconnect Panel.

9. Place ALL the **Mains** Breakers in the ON position.

3-1 Fuse Check

After applying power to the TCU and All mains breakers in the ON position, check the No. 1 display. If display is ON, fuse is good. If display is OFF, fuse is bad.

REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
A	June30, 2000	K. Keshena	Preliminary version.
B	July 5, 2000	K. Keshena	Added graphics of keys in section 2-2.