

## 307 CALIBRATION PROCEDURE

### A. EQUIPMENT REQUIRED

1. FLUKE 5101B CALIBRATOR
2. OMEGA TRC III ICE POINT CELL
3. OMEGA TRP (K) REFERENCE PROBE

### B. °C ADJUSTMENT:

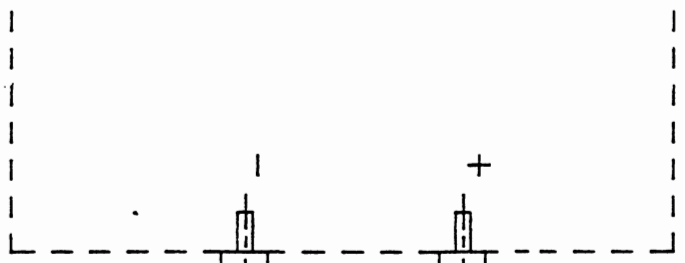
1. SET UP THE EQUIPMENT AS SHOWN IN FIGURE 1.
2. SET THE THERMOCOUPLE SELECT SWITCH TO " $T_1$ "  
 $T_2$  POSITION.
3. INSERT THE T/C PROBE INTO THE TC1 JACK.
4. SET THE FUNCTION SWITCH TO "0.1°C" POSITION.
5. SET THE OUTPUT OF THE DC CALIBRATOR TO 0.000mV AND  
ADJUST  $T_1=VR3$   
 $T_2=VR1$  UNTIL THE METER INDICATES 00.0°C.

### C. °F ADJUSTMENT:

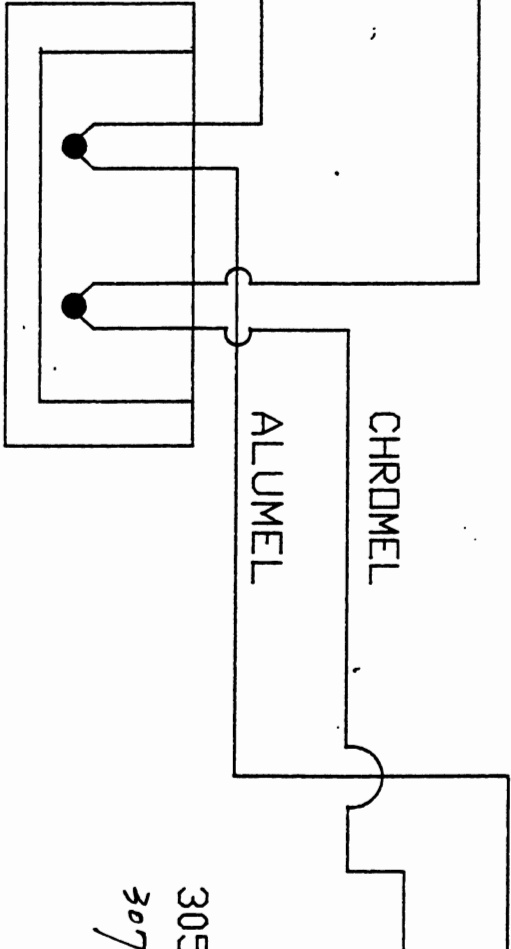
1. USE THE PROCEDURE OF °C ADJUSTMENT STEP 1 THROUGH 3,  
AND THEN PROCEED AS FOLLOWS.
2. SET THE FUNCTION SWITCH TO "0.1°F" POSITION.
3. SET THE OUTPUT OF THE DC CALIBRATOR TO -0.692mV AND  
ADJUST VR6 UNTIL THE METER INDICATES 00.0°F.
4. SET THE OUTPUT OF THE DC CALIBRATOR  
TO 3.012mV AND ADJUST VR7 UNTIL THE  
METER INDICATES 165.0°F.
5. SET THE OUTPUT OF THE DC CALIBRATOR TO 41.269mV AND  
ADJUST VR5 UNTIL THE METER INDICATES 1832°F
6. REMOVE THERMOCOUPLE AND REASSEMBLE THE METER.

CALIBRATOR FLUKE 5101B  
OR DATRON 4700

OMEGA TRC-III ICE POINT CELL



OMEGA THERMOCOUPLE PROBE



305/306 THERMOMETER

307

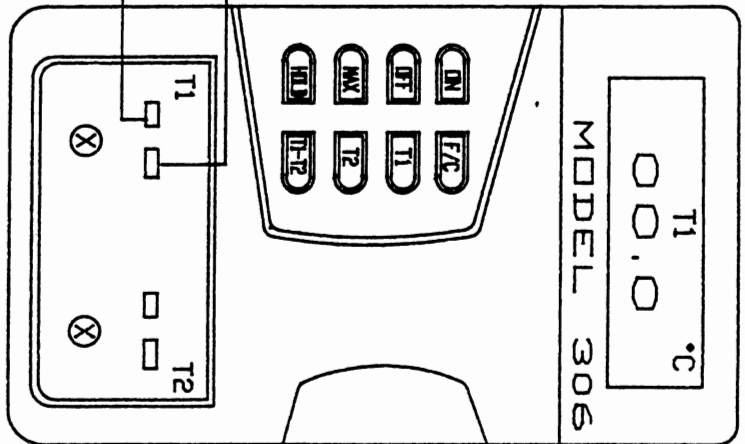


FIGURE 1

C. I. E.

MODEL NAME

307

DWG 307

SHEET OF

83, 9, 22

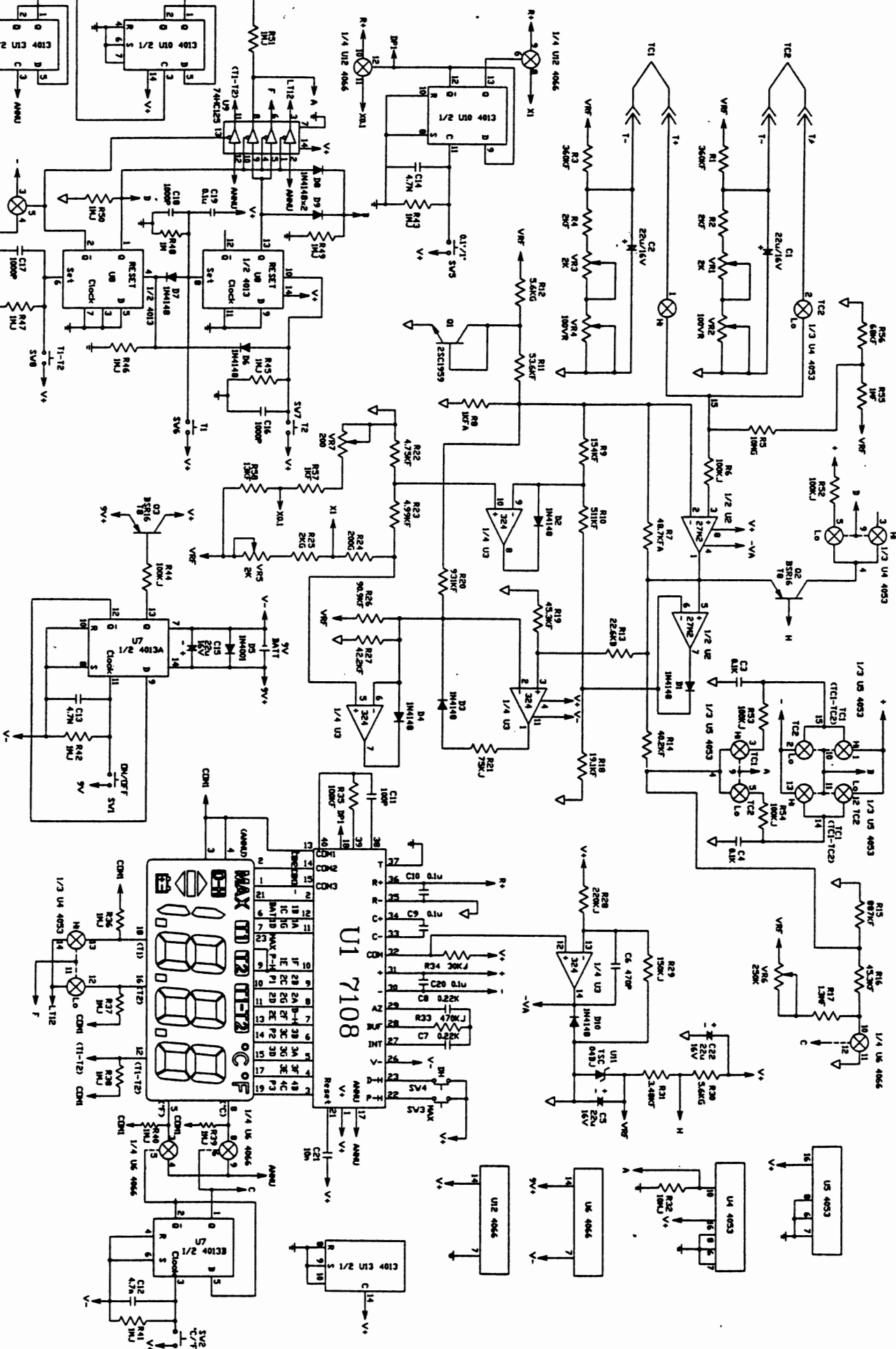
REV

DSGN

DWN

CKD

APPVD



C. I. E.

MODEL NAME

307

DWG 307

SHEET OF

83, 9, 22

REV

DSGN

DWN

CKD

APPVD