

5-6-2 Max. Output Current Adjustment

- Connect digital multimeter shown in Fig 5-4 and set the range to DC 20Amp position.
- Turn on supply.
- Adjust V_{ADJ} control and A_{ADJ} control fully clockwise.
- Push on DC out push button switch and adjust SVR2 until front current panelmeter reads exactly the maximum rated output current.

5-6-3. PARTS LIST

Location	Description
C1	Capacitor, Ceramic 0.01uF 500V
C2	* See Schematic Table
C4, C7, C8	Capacitor Electrolytic 33u 25V
C5, C6	Capacitor Electrolytic 470uF 25V
C10	Capacitor Electrolytic 220uF 25V
C11, 15, 17, 21	Capacitor Electrolytic 10uF 50V
C12	Capacitor Electrolytic 47uF 63V
C13	Capacitor Ceramic 0.22uF 50V
C14	Capacitor Electrolytic 2.2uF 50V
C16, 101	Capacitor Ceramic 100p 50V
C18	Capacitor Ceramic 0.1uF 50V
C23	Capacitor Electrolytic 6800uF 25V
C102, 103, 107, 108	Capacitor Metallized 0.1uF 63V
C104, 109	Capacitor Metallized 0.047uF 63V
C105, 110	Capacitor Metallized 0.22uF 63V
D1	* See Schematic Table
D3, D4, D5	Diode IN4002
D6, D7	Diode Bridge RB154 or W04
D8	Diode IN5399
D9, D10, D101	Diode IN4148
D12	Diode Bridge KBPC1004 or BR106
D13,14,15,16,17,18	Diode IN4148
F1	250V/2A(1800 Series Single, Dual) 250V/3A(3000 Series Single, 1800 Series Triple) 250V/5A(3000 Series Triple)

Location	Description
K1	Relay 12V 10A
LED1	Green, SLC-22MG
LED2, LED3	Red, SLC-22VR
Q1, Q2	Transistor 2N3055 TO-3 Type MJ15015(Output 60V only)
Q3	Transistor TIP41C
Q4, Q5	Transistor 2SC1815
Q6, Q7	Transistor PN2907
Q8, Q9	Transistor MJ2955 TO-3 Type(Triple only)
R1	Resistor Carbon 3.3K 2W
R2, R4	Resistor Cement 0.2 5W
R3, R5, R45	Resistor Carbon 100 1/4W
R6, R36, R38	Resistor Carbon 1K 1/4W
R7, R33	Resistor Carbon 1.2K 1/4W
R8, R34, R37	Resistor Carbon 2.2K 1/4W
R9	* See Schematic table
R10, R41	Resistor Carbon 3.3K 1/4W
R11	Resistor Metal 10K 1/4W 1%
R12, R21	Resistor Metal 990K 1/4W 1%
R13, R17, R24	Resistor Carbon 330 1/4W
R14	* See Schematic Table
R15, R16	Resistor Carbon 470 1/4W
* R18	* See Schematic Table
R20, R43, R102, R103	Resistor Carbon 1M 1/4W
R22	Resistor Carbon 47K 1/4W
R23	Resistor Metal 10K 1/4W 0.25%(Triple)
R25	Resistor Carbon 680 1/4W
R26	Resistor Carbon 120K 1/4W
R27	Resistor Carbon 330K 1/4W
R28	Resistor Carbon 220 1/4W
R29	Resistor Carbon 240 1/4W
R32	Resistor Carbon 33 1W
R35	Resistor Carbon 47 1/4W
R39, R42	Resistor Carbon 10K 1/4W

Location	Description
R40	Resistor Carbon 16K 1/4W
R44	Resistor Carbon 4.7K 1/4W
RS	Resistor Shunt 0.1(Mn)
R104, 112	Resistor Carbon 470K 1/4W
R105	Resistor Carbon 6.2K 1/4W
R106, 108	Resistor Metal 7.5K 1/4W 1%
R107, 109	Resistor Metal 27K 1/4W 1%
R110, 111	Resistor Carbon 1M 1/4W
R113, 114	Resistor Carbon 150 1/4W
R101	Resistor Carbon 110K 1/4W
R115	Resistor Carbon 20 1/4W
S1	Rocker Switch(Power On-Off)
S2	Voltage selector S/W(115/230V)
S3	Push Non-Lock S/W(CC SET)
S4	Push Self-Lock Switch(DC OUT)
S5	Slide S/W(Tracking)
SVR1	Semi VR 1K
SVR2, 101	Semi VR 10K
SVR3	Semi VR 22K
SVR4	Semi VR 50K
SVR5	Semi VR 500
SVR102	Semi VR 100K
T	Transformer
U1	Voltage Regulator, 7809
U2	Voltage Regulator, 7905
U3	Voltage Regulator, 7805
U4	Voltage Regulator, 317T
U5	OP AMP, 301A
U6, U8	OP AMP, 741
U7	OP AMP, 358
U101, 102	A/D Converter, ICL7107CPL
VR1, 3	Variable Resistor, 1K
VR2	Variable Resistor, 10K
ZD1	Diode Zener IN4737A
ZD101	Diode Zener LS5010GN(1.2V)

POWER BOARD
PS303P-2
PS3033P-2

AC INPUT

CONTROL BOARD
PS30C-0

TRIPLE POWER BOARD
PS55P-0

TRIPLE CONTROL BOARD
PS18T-0

DISPLAY BOARD
DP3080
DP3081
DP3082

SCHEMATIC TABLE (W/ SEE SCHEMATIC TABLE)

	18V/2A OUT	50V/1.5A OUT	50V/1.5A OUT	50V/1.5A OUT	30V/3A OUT	30V/3A OUT	30V/5A OUT
C2	2200U 50V	3300U 100V	2200U 50V	2200U 50V	3300U 50V	3300U 50V	5800U 50V
D1	BR68	BR68	BR68	BR68	BR68	BR68	BR106
R8	X	110K, 1/4W	47K, 1/4W	47K, 1/4W	47K, 1/4W	47K, 1/4W	47K, 1/4W
R14	5.2K, 1/4W	20K, 1/4W	10K, 1/4W	10K, 1/4W	10K, 1/4W	10K, 1/4W	10K, 1/4W
R18	27K, 1/4W 1%	39K, 1/4W 1%	39K, 1/4W 1%	39K, 1/4W 1%	18K, 1/4W 1%	18K, 1/4W 1%	18K, 1/4W 1%

SCHEMATIC NOTES

1. ALL RESISTORS ARE IN OHMS UNLESS OTHERWISE NOTED.
2. ALL CAPACITORS ARE IN FARADS UNLESS OTHERWISE NOTED.
3. (+) DENOTE (+) OUT CONNECTION.
4. (A) DENOTE CHASSIS CONNECTION.

	15V/2A OUT	50V/1.5A OUT	30V/1.5A OUT	30V/3A OUT	30V/5A OUT
C2	2200u 53V	3300u 100V	2200u 53V	3300u 53V	5500u 53V
D1	BR55	BR55	BR55	BR55	BR105
R5	X	150K, 1/4W	47K, 1/4W	47K, 1/4W	47K, 1/4W
R14	5.2K, 1/4W	20K, 1/4W	10K, 1/4W	10K, 1/4W	10K, 1/4W
R15	27K, 1/4W 1%	39K, 1/4W 1%	39K, 1/4W 1%	15K, 1/4W 1%	15K, 1/4W 1%

SCHEMATIC NOTES

1. ALL RESISTORS ARE IN OHMS UNLESS OTHERWISE NOTED.

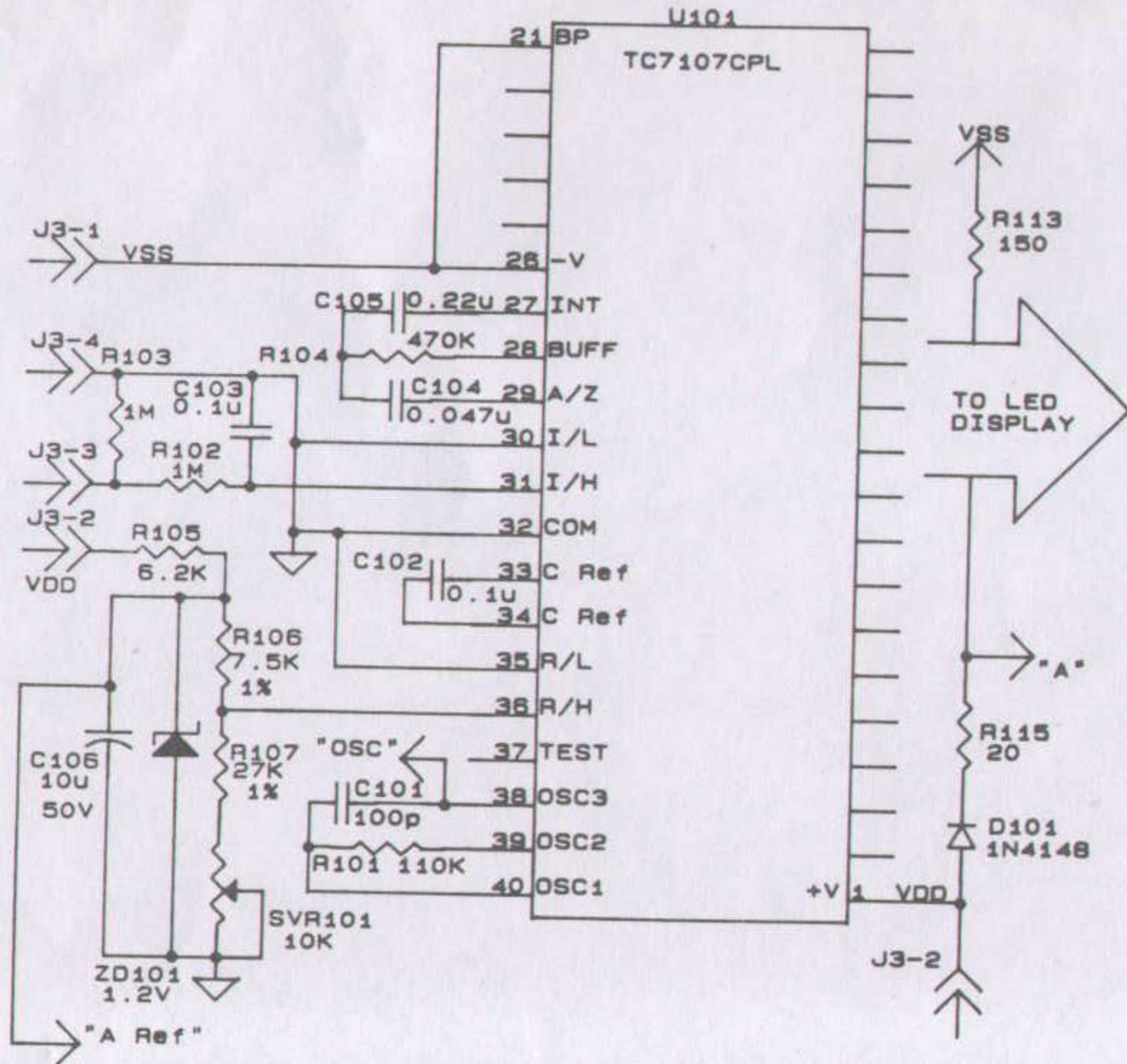
2. ALL CAPACITORS ARE IN FARADS UNLESS OTHERWISE NOTES.

3. \perp DENOTE (\perp) OUT CONNECTION.

4. 7 DENOTE CHASSIS CONNECTION.

DISPLAY BOARD

(VOLTAGE METER)



(CURRENT METER)

