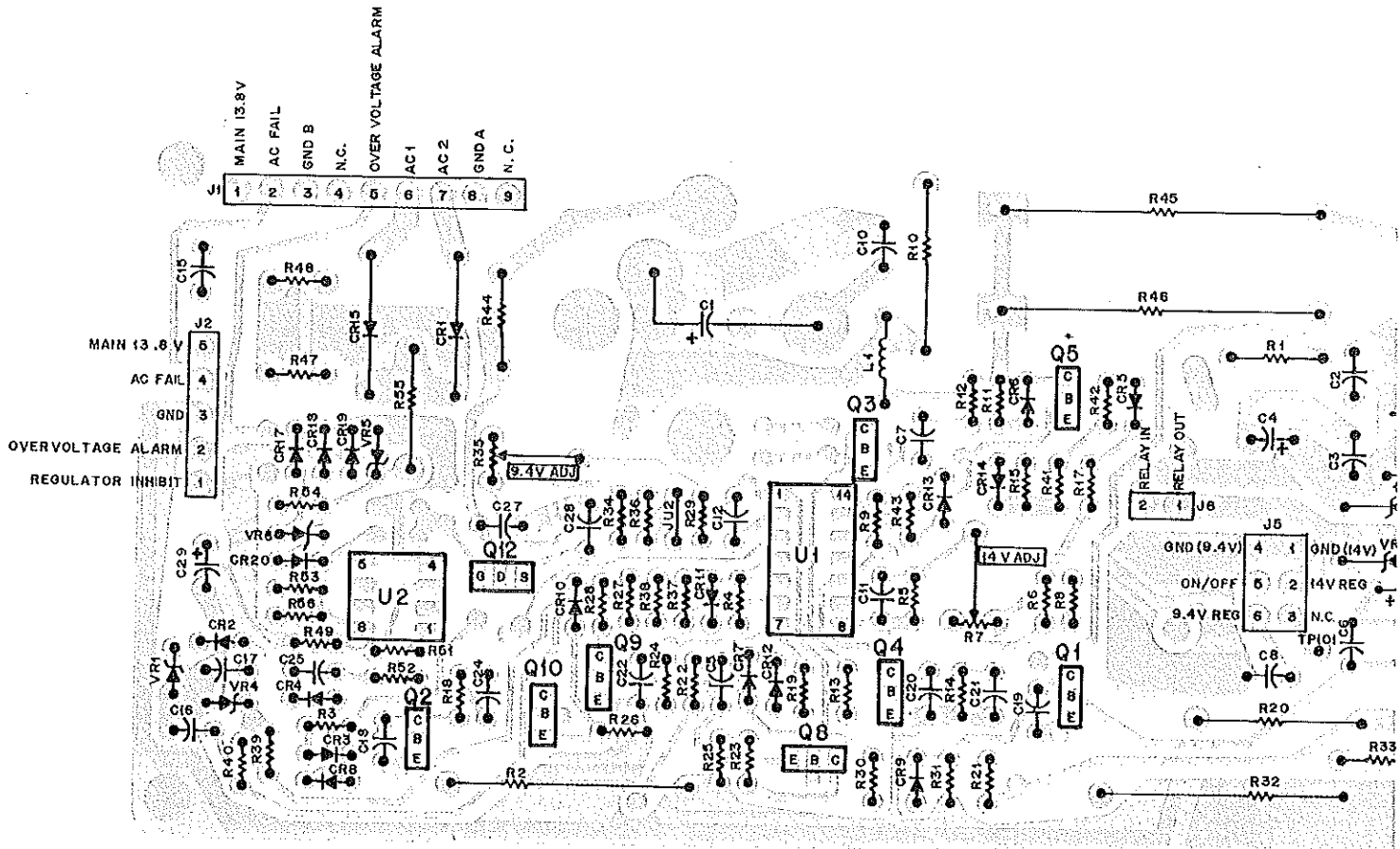


STANDARD POWER SUPPLY

MODEL TPN1191A

CURRENT VE



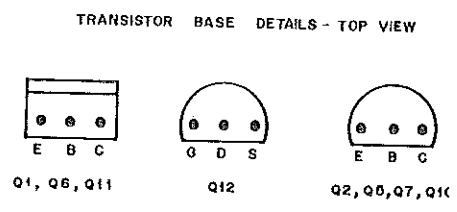
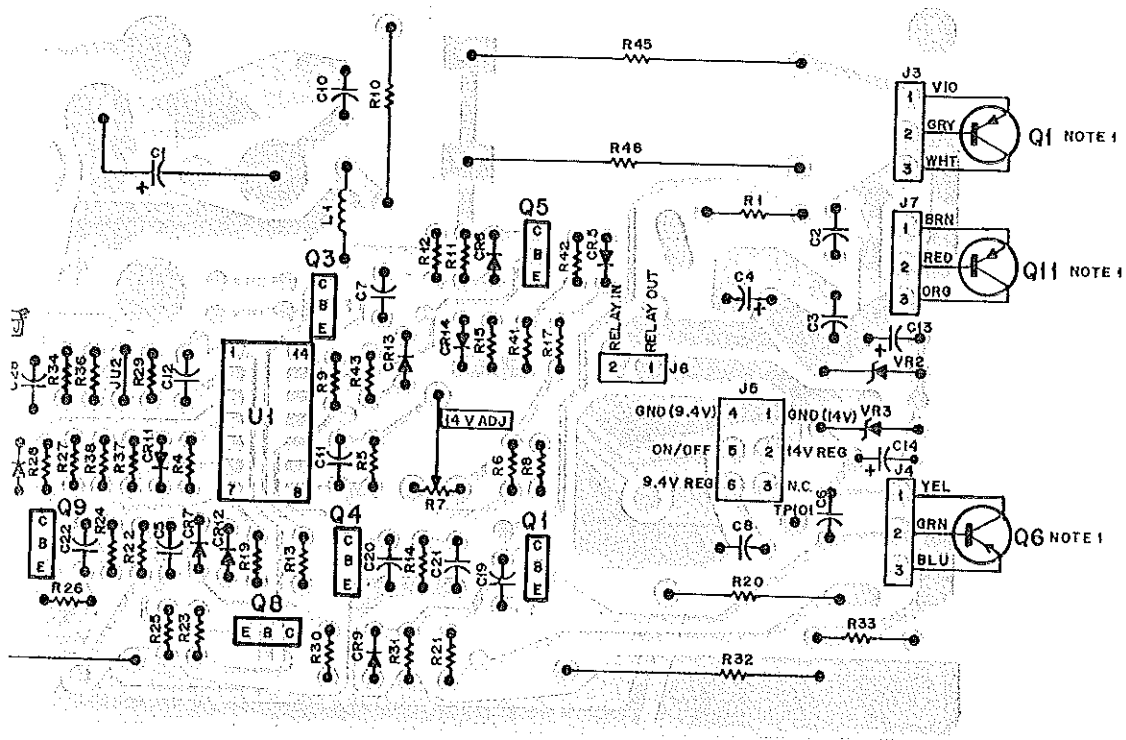
NOTES:
 1. Q1, Q6 AND Q11 ARE P/O THE TRN5299A HEAT SINK KIT.

COMPONENT SIDE BD-CEPS-45129-0
 SOLDER SIDE BD-CEPS-45130-0
 OL-CEPS-45131-0

SHOWN FROM COMPONENT SIC

TRN5119B Auxiliary Regulator Board
 Schematic Diagram, Circuit Board Detail,
 and Parts List
 Motorola No. PEPS-38130-B
 (Sheet 1 of 3)
 10/16/87-UP

CURRENT VERSION



COMPONENT SIDE BD-CEPS-45129-0
 SOLDER SIDE BD-CEPS-45130-0
 OL-CEPS-45131-0

SHOWN FROM COMPONENT SIDE

parts list

TRN5119B Auxillary Regulator Board

PL-10782-O

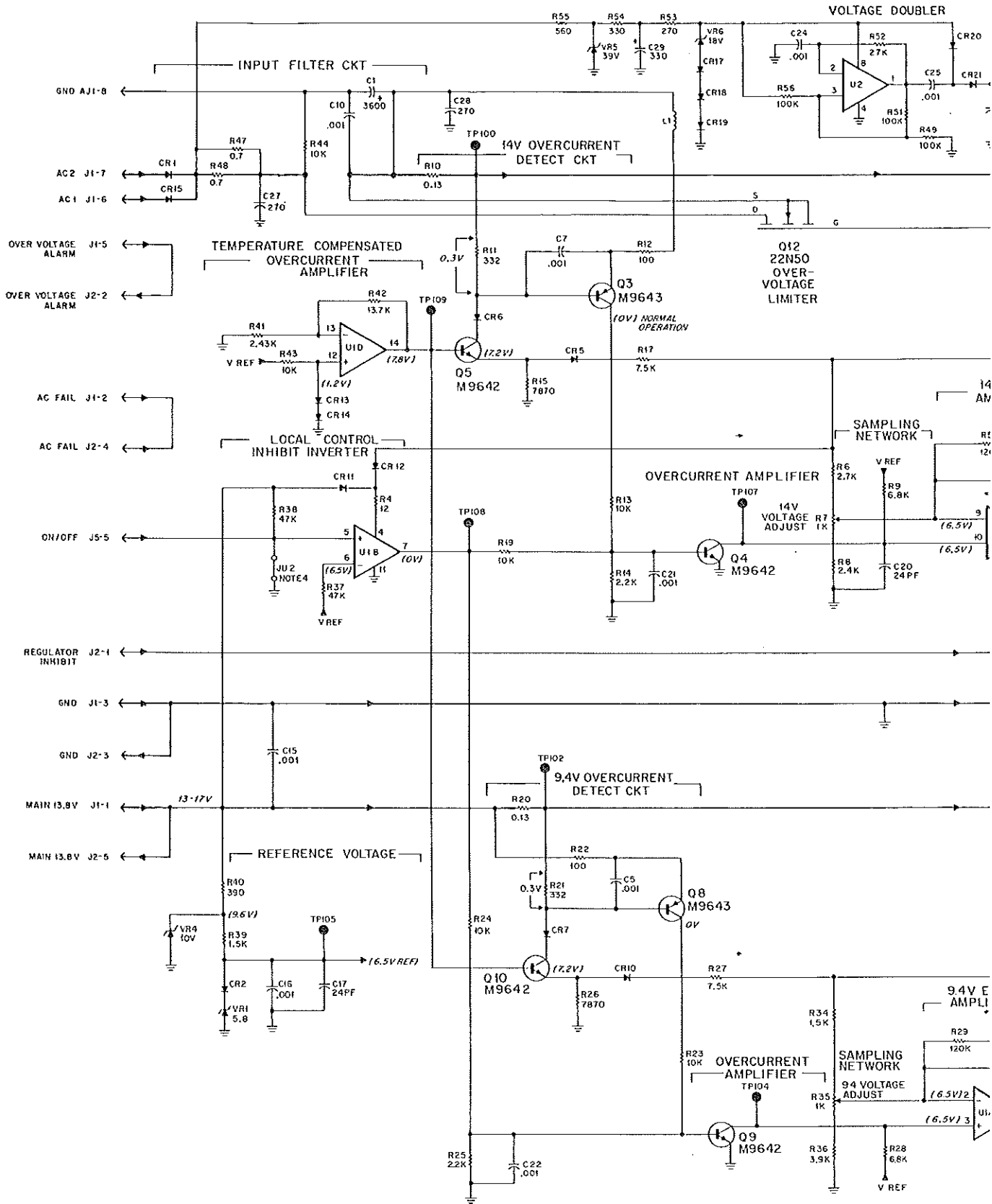
REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
		capacitor, fixed: $\mu F \pm 10\%$ 100V unless otherwise stated
C1	2382394A19	3600 -10 + 150% 40V
C2,3	2111015B13	.001
C4	2384665F15	330 -10 + 50% 25V
C5 thru 8	2111015B13	.001
C9	2384665F15	330 -10 + 50% 25V
C10	2111015B13	.001
C11,12	2182428B21	.01 + 10-30%
C13,14	2384538G02	4.7 $\pm 20\%$ 20V
C15,16	2111015B13	.001
C17	2111022G39	24 $\pm 5\%$ 50V
C18,19	2111015B13	.001
C20	2111022G39	24 $\pm 5\%$ 50V
C21 thru 26	2111015B13	.001
C27,28	2182187B22	270; 200V
C29	2311037A53	330 $\pm 20\%$ 35V
		diode: (see note)
CR1	4882525G13	silicon
CR2 thru 12	4883654H01	silicon
CR13,14	4882392B18	silicon
CR15	4882525G13	silicon
CR17 thru 21	4883654H01	silicon
		connector, receptacle:
J1	2882984N12	male 8-contact
J2	0983497F08	female 5-contact
J3	2882984N02	male 3-contact
J4	2882984N03	male 3-contact
J5	0180754D88	connector assembly: consists of: housing, receptacle; 6-position contact, receptacle; 6 used
J6	2882984N01	male 2-contact
J7	2882984N02	male 3-contact
		jumper:
JU1,2	0611009F23	zero ohm
		coil, rf:
L1	2483961B01	choke
		transistor: (see note)
Q2	4800869833	NPN; type M9833
Q3	4800869843	PNP; type M9643
Q4,5	4800869842	NPN; type M9642
Q7	4800869833	NPN; type M9833
Q8	4800869843	PNP; type M9643
Q9,10	4800869842	NPN; type M9642
Q12	4882022N50	N-channel FET type 22N50 <i>SCR</i>
		resistor, fixed: $\pm 5\%$; 1/4W: unless otherwise stated
R1	0611009A49	1k
R2	1782177B16	100 $\pm 10\%$ 5W
R3	0611009E57	2200
R4	0611009E03	12
R5	0611009E99	120k
R6	0611009E59	2700
R7	1884944C10	variable 1k $\pm 20\%$ 0.10W
R8	0611009E58	2400
R9	0611009E69	6800
R10	1782036G24	0.13; 2W
R11	0684444A01	332 $\pm 1\%$
R12	0611009E25	100
R13	0611009E73	10k
R14	0611009E57	2200
R15	0610621C81	7870 $\pm 1\%$
R17	0610621C79	7500 $\pm 1\%$
R18	0611009E61	3300
R19	0611009E73	10k
R20	1782036G24	0.13; 2W
R21	0684444A01	332 $\pm 1\%$
R22	0611009E25	100
R23,24	0611009E73	10k
R25	0611009E57	2200
R26	0610621C81	7870 $\pm 1\%$
R27	0610621C79	7500 $\pm 1\%$
R28	0611009E69	6800
R29	0611009E99	120k
R30	0611009E57	2200
R31	0611009E61	3300
R32	1782177B16	100 $\pm 10\%$ 5W
R33	0611009A33	220
R34	0611009E53	1500
R35	1884944C10	variable 1k $\pm 20\%$ 0.10W
R36	0611009E63	3900
R37,38	0611009E89	47k
R39	0611009E53	1500
R40	0611009E39	390
R41	0610621C27	2150 $\pm 1\%$
R42	0610621D05	13.7k $\pm 1\%$
R43	0611009E73	10k
R44	0611009A73	10k
R45,46	1782177B64	2.6; 10W
R47,48	1782177B12	0.7 $\pm 10\%$; 5W
R49	0611009E97	100k

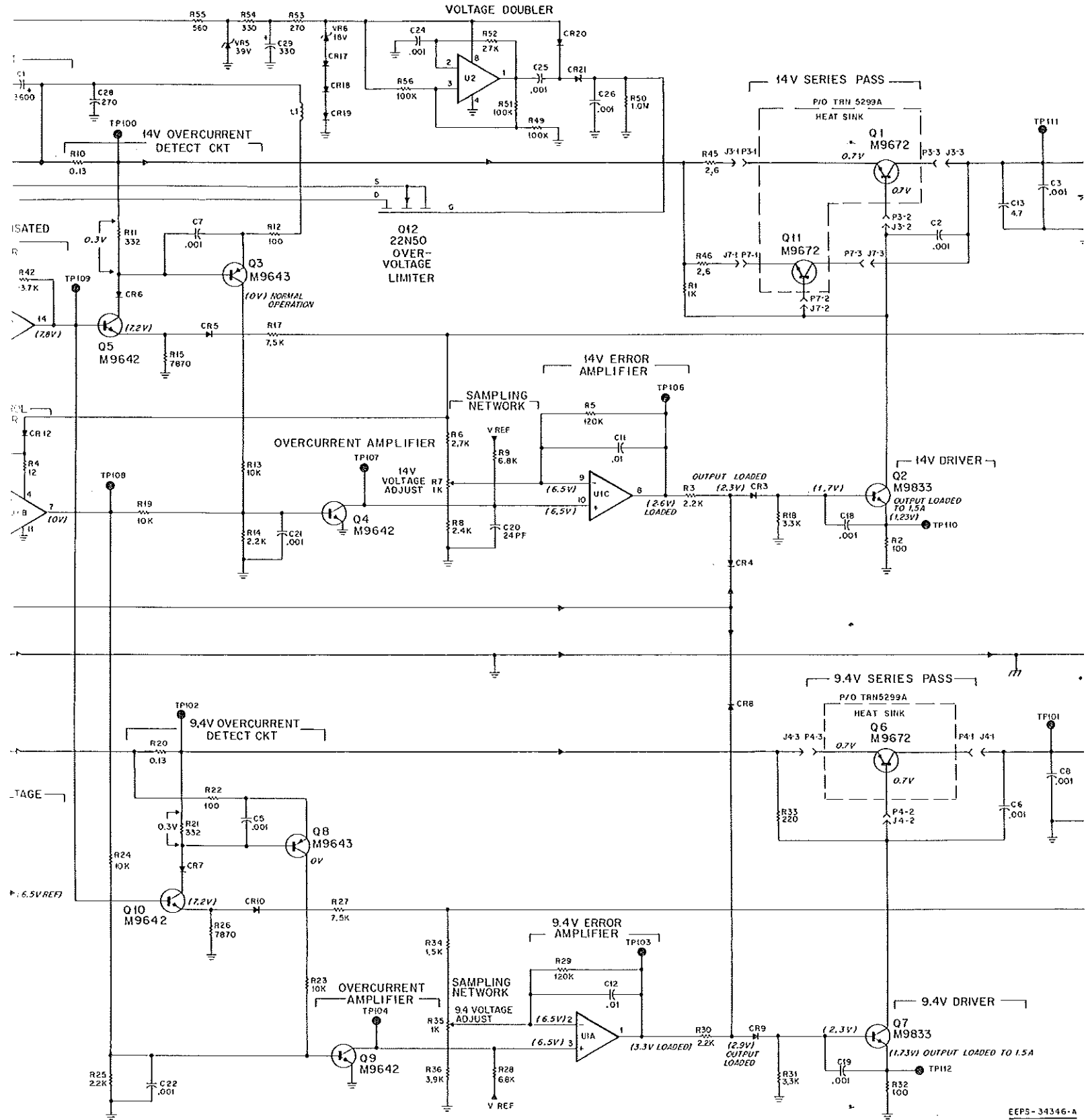
REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
R50	0611009F22	1meg
R51	0611009E97	100k
R52	0611009E83	27k
R53	0611009E35	270
R54	0611009E37	330
R55	0600125A43	560; 1/2W
R56	0611009E97	100k
U1	5183629M08	integrated circuit: (see note) quad operational amplifier
U2	5184621K85	integrated circuit: (see note) dual operational amplifier
		voltage regulator: (see note)
VR1	4882256C61	Zener type 5.8V
VR2	4882256C53	Zener type 18V
VR3	4882256C13	Zener type 14V
VR4	4882256C11	Zener type 10V
VR5	4882256C58	Zener type 39V
VR6	4882256C53	Zener type 18V
non-referenced items		
	2683472R01	HEAT SINK

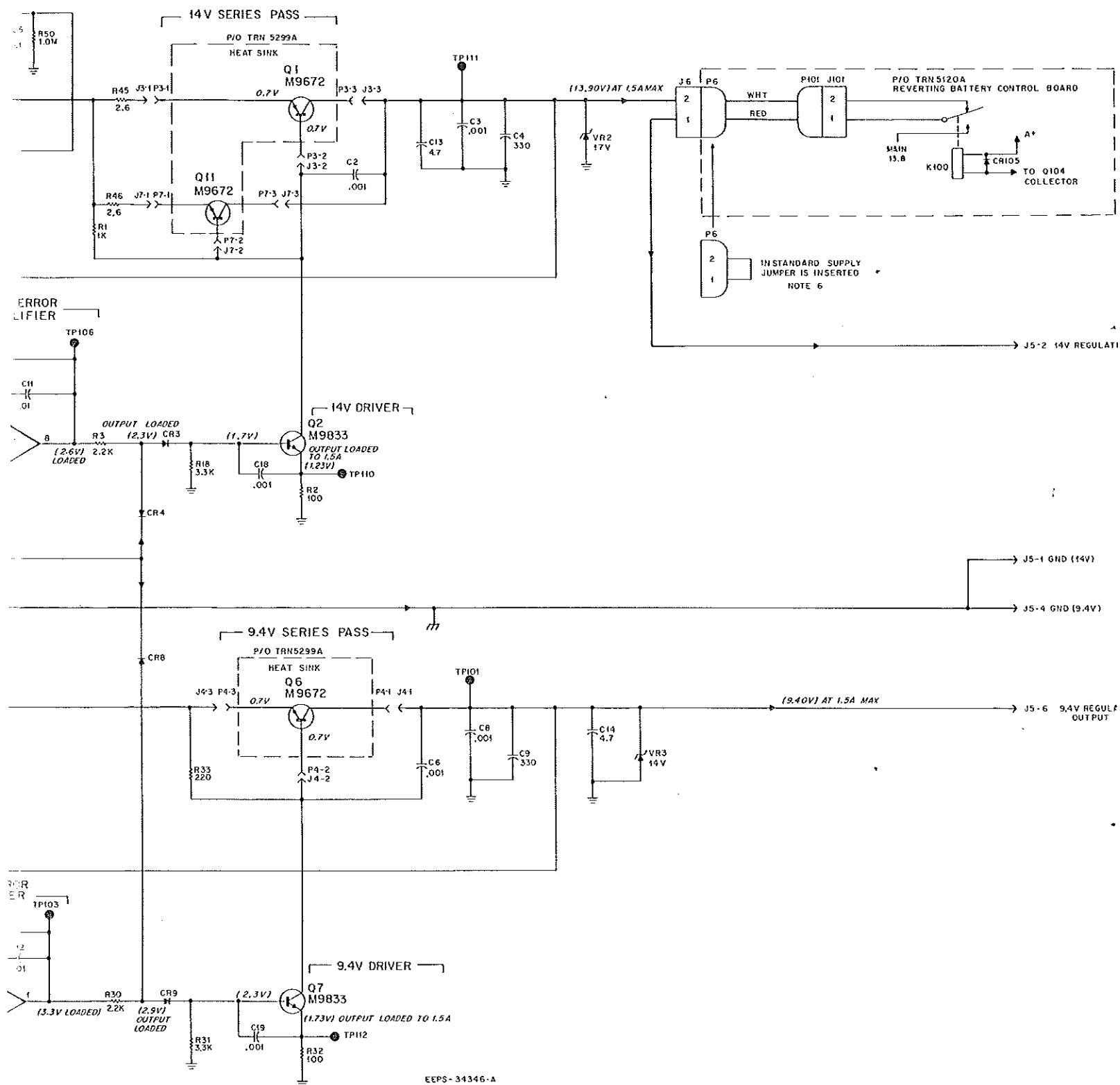
DETAILS - TOP VIEW

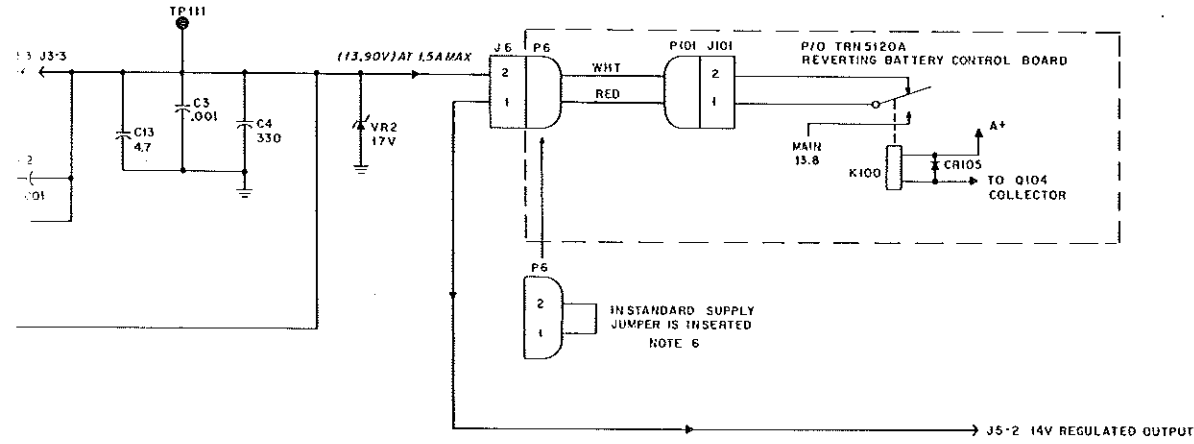


Q2, Q6, Q7, Q10





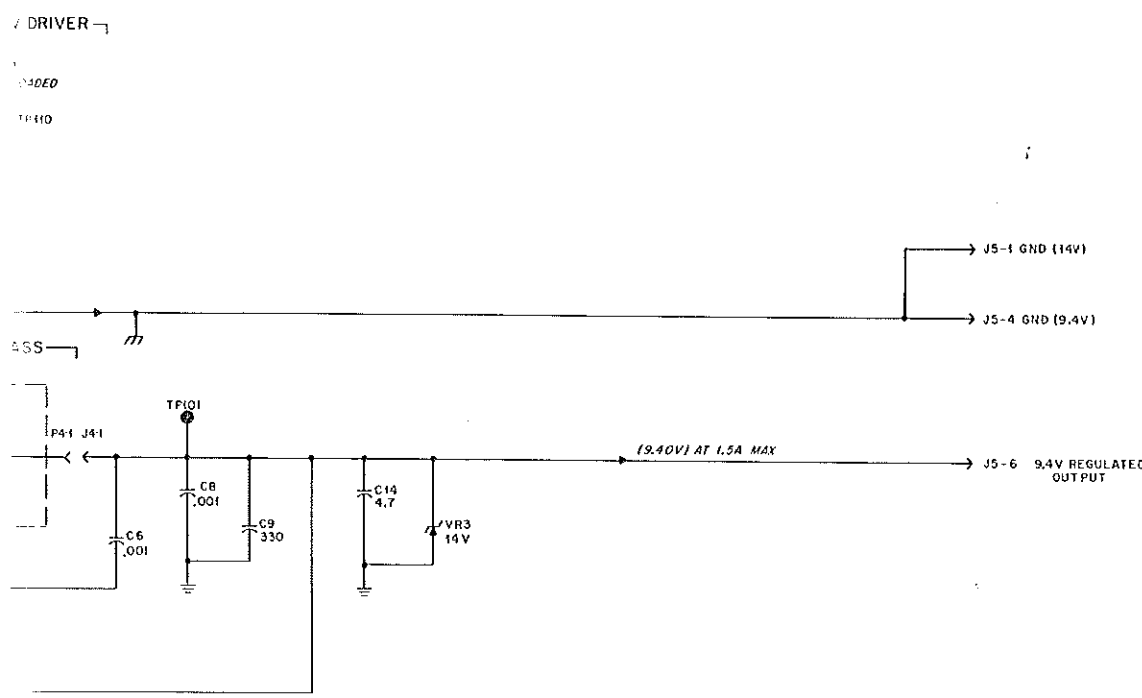




- NOTES:
1. Unless otherwise indicated; microfarads; and inductor v
 2. Integrated circuits on this t
 3. IC types and connections fr

Reference Designation
U1
U2

4. Remove JU2 when on/off sv
5. DC voltages are nominal. Fi
6. For non-battery supply (star
7. Add JU1 only if battery chr board TRN5120A.



4V DRIVER

OUTPUT LOADED TO 1.5A

EEPS-34346-4