

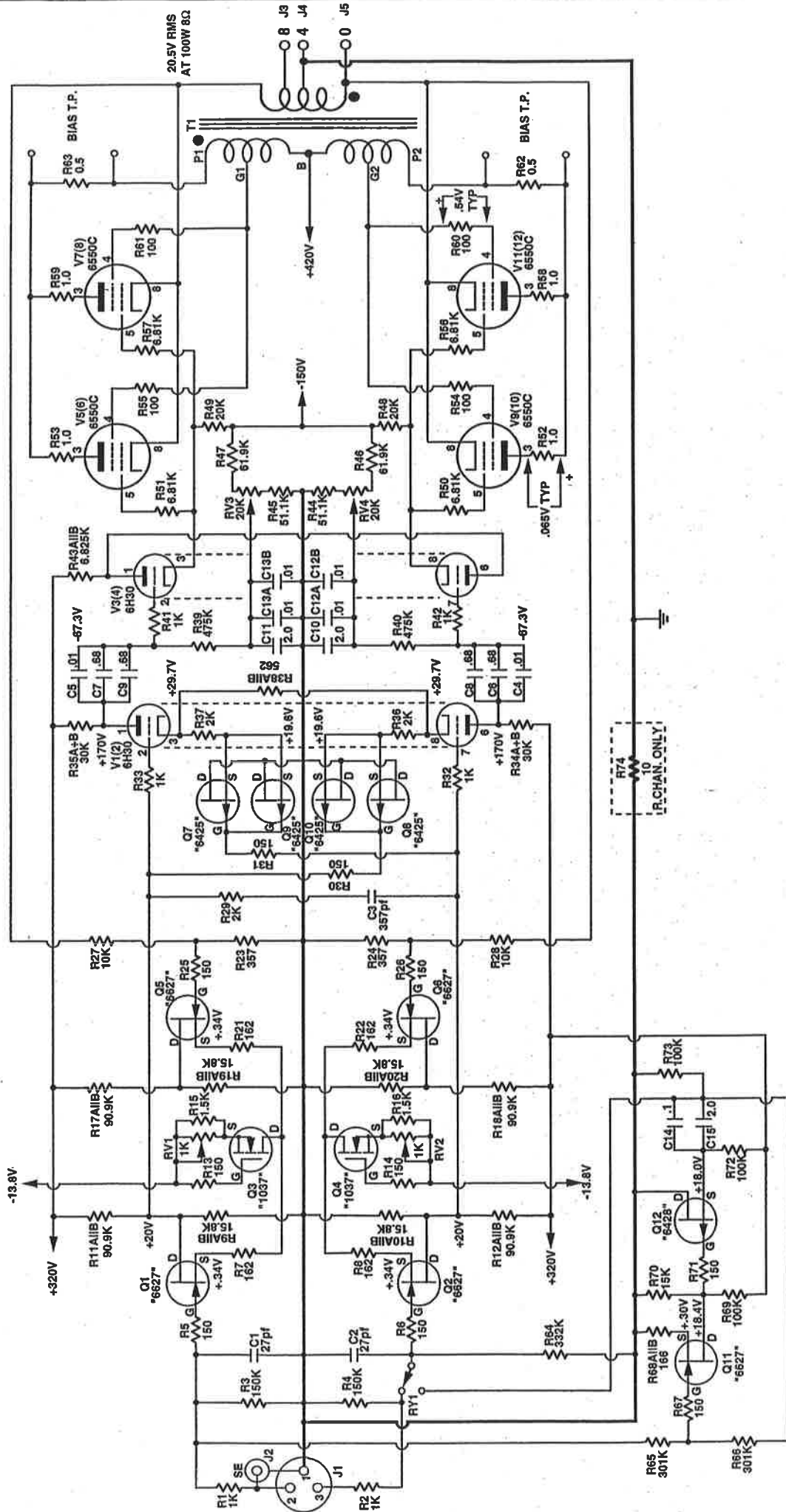
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3900 ANNAPOLIS LANE NORTH / PLYMOUTH, MINNESOTA 55447-5447 / PHONE: 763-577-9700 FAX 763-577-0323

VT100MKIII SCHEMATIC

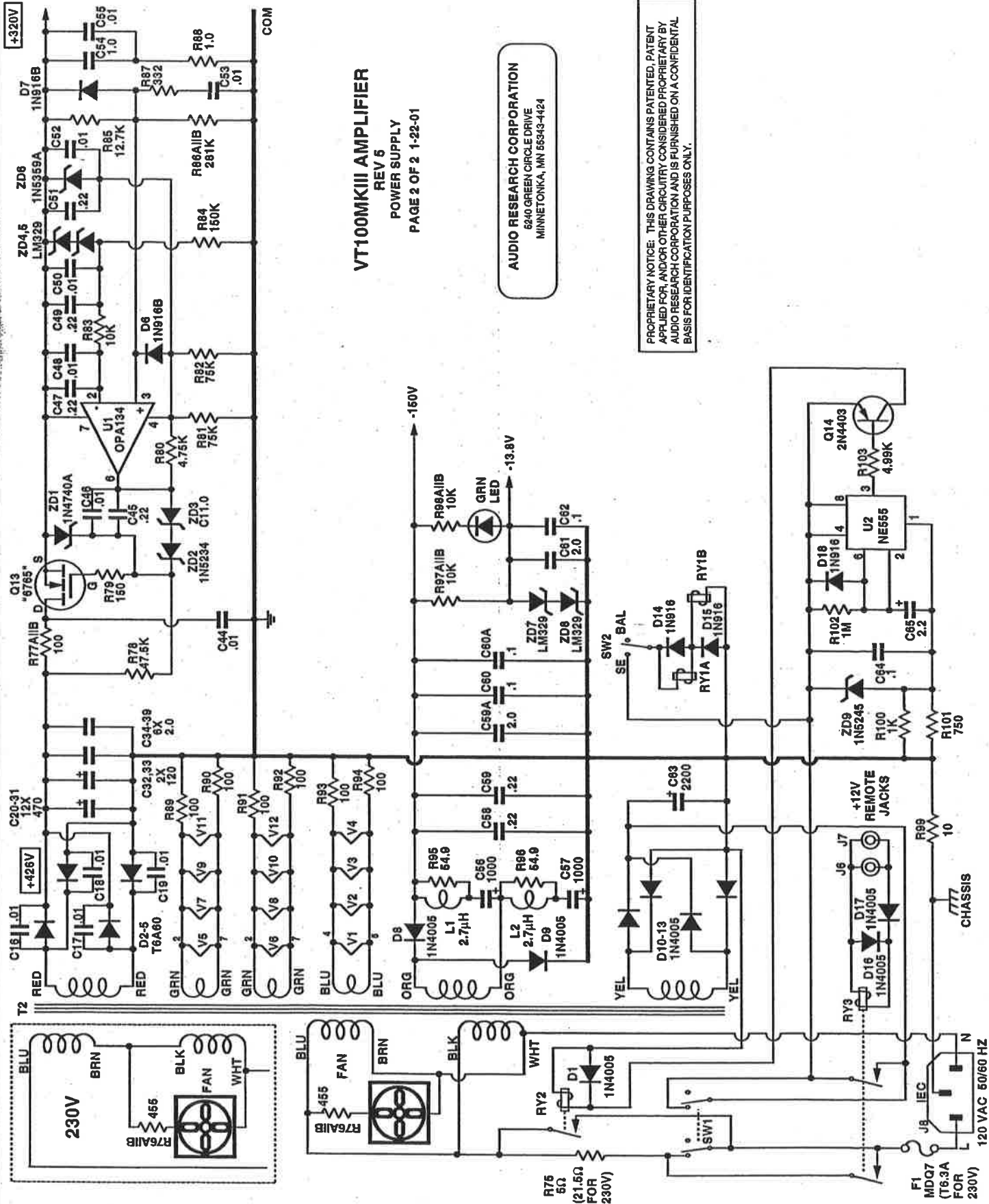
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VT100MKIII
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AUDIO RESEARCH CORPORATION
8740 GREEN CIRCLE DRIVE
MINNETONKA, MN 55345-4424

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VT100MKIII

PARTS LIST

1-9-02

PARTS LIST

As of JAN 9 02

PRODUCT: VT100MKIII

Schematic Symbol	Quantity	ARC Part #	Description
C CAPACITORS			
C1,2,3B	6	53270101	CAP., 27pf ± 1 pf 630V PNP
C3A	2	53330201	CAP., 330pF $\pm 2.5\%$ 630V PPN
C4,5	1	53100417	CAP., .01uf 600V TEFLON
C6,7,8,9	8	53680505	CAP., .68 μ F 425V INFINICAP GRN
C10,11,15,61	5	53200603	CAP., 2 μ F $\pm 10\%$ 250V
C16-19	4	53100407	CAP., .01 μ f $\pm 20\%$ 250V
C20-31	12	50470807	CAP., 470 μ F 450V "LYTIC"
C32,33	2	50120801	CAP., 120 μ F 450V "LYTIC"
C34,39	6	53200602	CAP., 2 μ F $\pm 10\%$ 450V
C44,55	2	53100412	CAP., .01 μ F $\pm 10\%$ 600V RTX
C45,47,49,51,58,59	6	53220507	CAP., .22 μ f $\pm 10\%$ 160V
C46,48,50,52,60	5	53100410	CAP., .01uf $\pm 10\%$ 400V
C54	1	53100610	CAP., 1.0 μ F $\pm 10\%$ 400V PPMF
C56,57	2	50100909	CAP., 1000 μ F 100V "LYTIC" RAD.
C63	1	50220903	CAP., 2200 μ F 35V ELECTROLYTIC
D DIODES			
D1,8-13,16,17	9	30500400	IN4005
D2-5	4	30503310	T6A60, TAITRON
D6,7,14,15	5	30500910	1N916B
FAN FANS			
FAN1	1	64000220	FAN, PAPST 4800X
J CONNECTORS			
J1	2	23201970	CONNECTOR, XLR FEM. #NC3FP-1-B
J2	1	23201509	JACK, CHASSIS RED
J2	1	23201510	JACK, CHASSIS WHITE
J3,4,5	6	10036620	BINDING POST, & KNOB
J6,7	2	23202900	JACK, MINI PHONE .140"
J8	1	23201800	INLET, IEC MALE POWER
L INDUCTORS			
L1,2	2	61000160	CHOKE, 2.7 μ H $\pm 10\%$
LE PANEL INDICATOR			
LE1	1	34300320	L.E.D., GREEN SPOT L424GDT
Q TRANSISTORS			
Q1,2,5,6	24	30006504	FET, WHITE YELLOW
Q3,4	4	30011037	FET, GREEN-ORANGE-VIOLET
Q7,8,9,10	8	30006425	FET, GRAY, GRAY, DOT
Q12	2	30006428	FET, GRAY GRAY
Q13	1	30006765	FET, ORANGE-YELLOW-GREEN

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Schematic Symbol	Quantity	ARC Part #	Description
R RESISTORS			
R1,2,32,33,41,42	12	42100314	RES., 1K Ω MK-5 1% 50PPM
R3,4	4	42150503	RES., 150K Ω MK-3 1% 50PPM
R5,6,13,14,25,26,30,31,67,71,79	21	42150202	RES., 150 Ω MK-2 1% 50PPM
R7,8,21,22	8	42162203	RES., 162 Ω MK-3 1% 50PPM
R9A,10A,19A,20A	8	42178403	RES., 17.8K Ω MK-3 1% 50PPM
R9B,10B,19B,20B	8	42140503	RES., 140K Ω MK-3 1% 50PPM
R11,12,17,18,69,72	12	42100505	RES., 100K Ω MK-8 1% 50PPM
R15,16	4	42150303	RES., 1.50K Ω MK-3 1% 50PPM
R23,24	4	42357203	RES., 357 Ω MK-3 1% 50PPM
R27,28,43A	6	42100414	RES., 10K Ω MK-5 1% 50PPM
R29,36,37	7	42200303	RES., 2K Ω MK-3 1% 50PPM
R34A,34B,35A,35B	8	42150414	RES., 15K Ω MK-5 1% 50PPM
R38A	3	42750203	RES., 750 Ω MK-3 1% 50PPM
R38B	2	42221303	RES., 2.21K Ω MK-3 1% 50PPM
R39,40	4	42475503	RES., 475K Ω MK-3 1% 50PPM
R43B	2	42215414	RES., 21.5K Ω MK-5 1% 50PPM
R44,45	4	42511403	RES., 51.1K Ω MK-3 1% 50PPM
R46,47	4	42619403	RES., 61.9K Ω MK-3 1% 50 PPM
R48,49,97A,97B,98A,98B	8	42200414	RES., 20K Ω MK-5 1% 50PPM
R50,51,56,57	8	42681302	RES., 6.81K Ω MK-2 1% 50 PPM
R52,53,58,59	8	43100004	RES., 1 Ω 2W 5% BLUE LINE
R54,55,60,61	8	43100208	RES., 100 Ω 5% 3W W.W.
R64	2	42332503	RES., 332K Ω MK-3 1% 50PPM
R65,66	4	42301503	RES., 301K Ω MK-3 1% 50PPM
R68A,68B,87	5	42332203	RES., 332 Ω MK-3 1% 50PPM
R70	2	42150403	RES., 15K Ω MK-3 1% 50PPM
R73	2	42100503	RES., 100K Ω MK-3 1% 50PPM
R74,99	2	42100103	RES., 10 Ω MK-3 1% 50PPM
R75	1	43500003	RES., 5 Ω 25W \pm 10% W.W.
R76A,76B	2	43910201	RES., 910 Ω 2W \pm 10% W.W.
R77A,77B	2	42200205	RES., 200 Ω MK8 1% 50PPM
R78	1	42475414	RES., 47.5K Ω MK-5 1% 50PPM
R80	1	42475302	RES., 4.75K Ω MK-2 1% 50 PPM
R81,82	2	42750405	RES., 75K Ω MK-8 1% 50PPM
R83	1	42100403	RES., 10K Ω MK-3 1% 50PPM
R84	1	42150514	RES., 150K Ω MK-5 1% 50PPM
R85	1	42127403	RES., 12.7K Ω MK-3 1% 50PPM
R86A,86B	2	42562503	RES., 562K Ω MK-3 1% 50PPM
R88	1	43100002	RES., 1 Ω 2W 5% W.W.
R89-94	6	42100203	RES., 100 Ω MK-3 1% 50PPM
R95,96	2	42549103	RES., 54.9 Ω MK-3 1% 50PPM
RV CONTROLS			
RV1,2	4	45100301	POT., TRIM 1K Ω
RV3,4	4	45200412	POT., 20K Ω TRIM #3104F-1-203K

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Schematic Symbol	Quantity	ARC Part #	Description
RY RELAYS			
RY1	2	64101600	RELAY, 12VDC
RY2	1	64101200	RELAY, 24V POWER ON
RY3	1	64101800	RELAY, 12V FAST
SW SWITCHES			
SW1	1	24102300	SWITCH, ROCKER
SW2	1	24101410	SWITCH, TOGGLE INPUT REFPHONO
T TRANSFORMERS			
T1	2	60012220	XFR., VT100 OUTPUT
T2	1	60013914	XFR., VT100 POWER DUAL V.
U INTEGRATED CIRCUITS			
U1	1	31002230	OPA134
V VACUUM TUBES			
V1-4	4	32002301	(B)TUBE, 6H30P (TESTED)
V5-12	8	32000561	(B)VAC. TUBE, 6550C TESTED
ZD ZENER DIODES			
ZD1	1	30500300	IN4740A
ZD2	1	30502100	1N5234B
ZD3	1	30504900	ZENER, 11V BZX55C11
ZD4,7	2	31000702	FET, RED
ZD5,8	2	31000703	FET, ORANGE
ZD6	1	30503500	IN5359A OR B