

AMC

SERVICE MANUAL

CVT1030

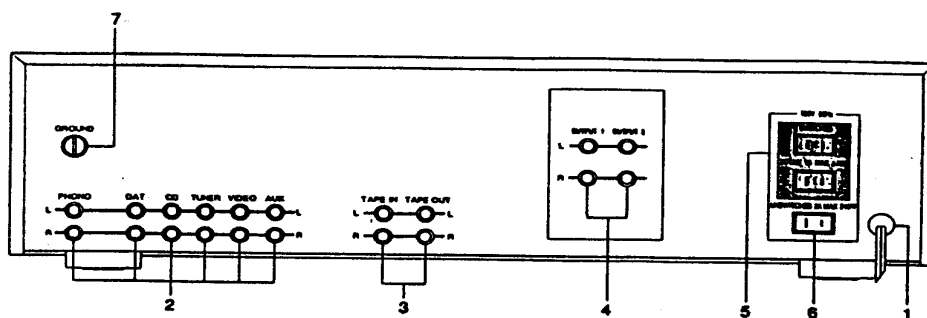
PRE AMPLIFIER

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REAR PANEL CONNECTIONS/FRONT PANEL CONTROLS

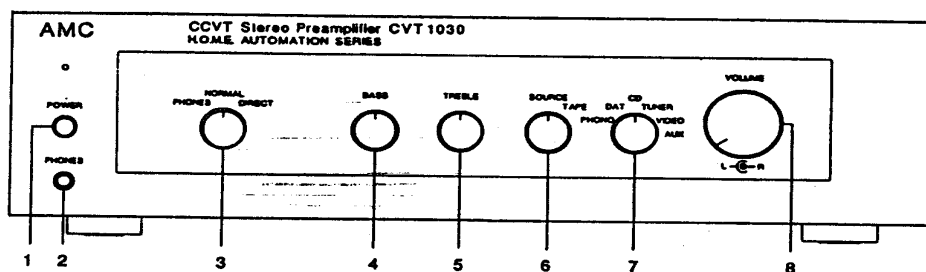
REAR PANEL



1. AC LINE CORD
2. AUDIO INPUTS: PHONO, DAT, CD, TUNER, VIDEO, AUX
3. TAPE IN/OUT

4. AUDIO OUTPUTS
5. SWITCHED CONVENIENCE AC OUTLETS
6. UNSWITCHED CONVENIENCE AC OUTLET
7. PHONO GROUND TERMINAL

FRONT PANEL



1. POWER SWITCH
2. PHONES SOCKET
3. PHONES/NORMAL/DIRECT SWITCH
4. BASS CONTROL

5. TREBLE CONTROL
6. TAPE MONITOR SWITCH
7. INPUT SELECTOR SWITCH
8. VOLUME CONTROL

SPECIFICATIONS C.V.T.1030s

Input sensitivity for 1volt output

High level inputs..... 150mV
Phono input..... 2.3mV

Rated THD..... 0.03%

Input impedance

High level inputs..... 20K ohms/100pf
Phono input..... 47K ohms/100pf
Output Impedance..... <200 ohm

Frequency response

Direct mode 20Hz-20KHz..... +/-0.5dB
Normal 20Hz-20KHz..... +/-1.0dB
High level inputs-3dB..... 4Hz/80KHz

Signal to noise ratio (ref. 1volt)

High level inputs "A" WTD..... 96dB
Phono input "A" WTD..... 79dB

Tone control range

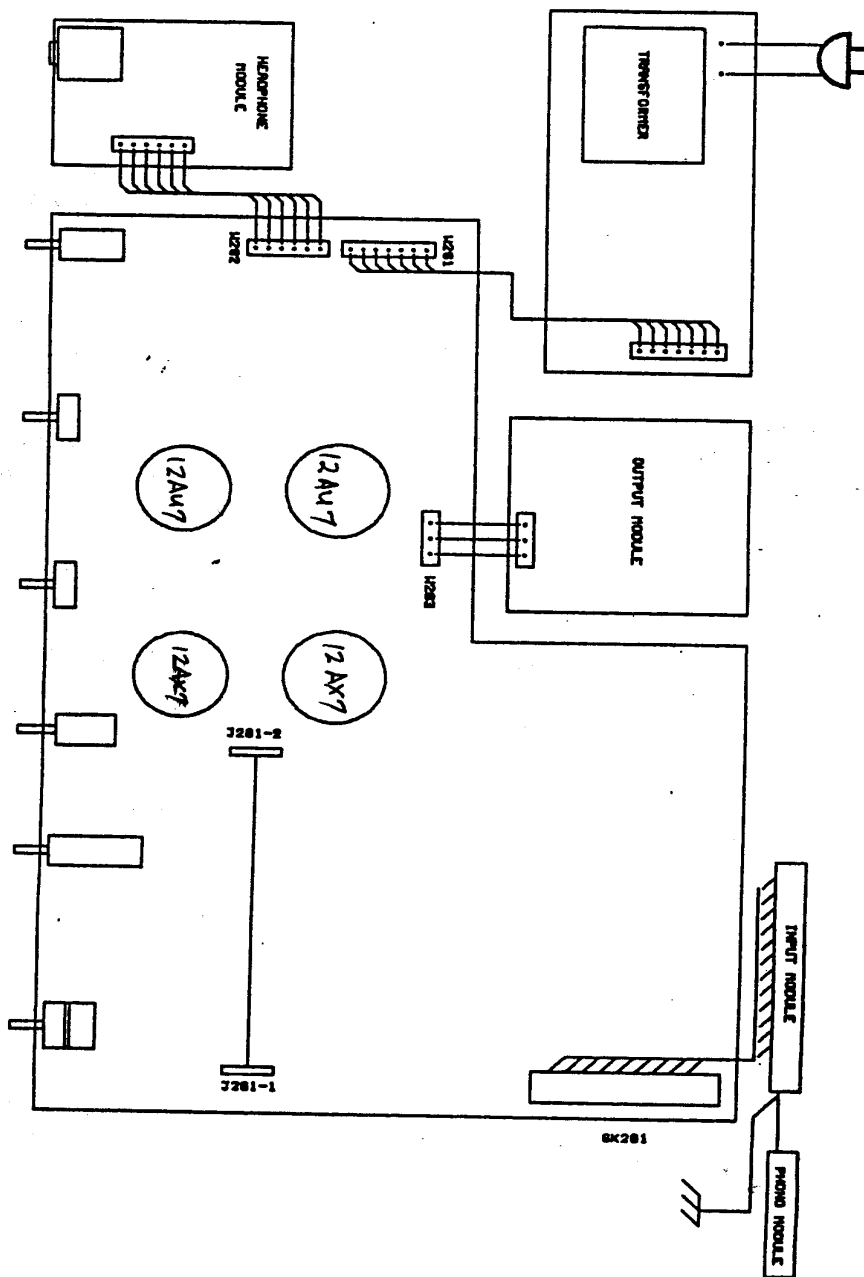
Bass at 50Hz..... +/-8dB
Treble at 10KHz..... +/-7dB

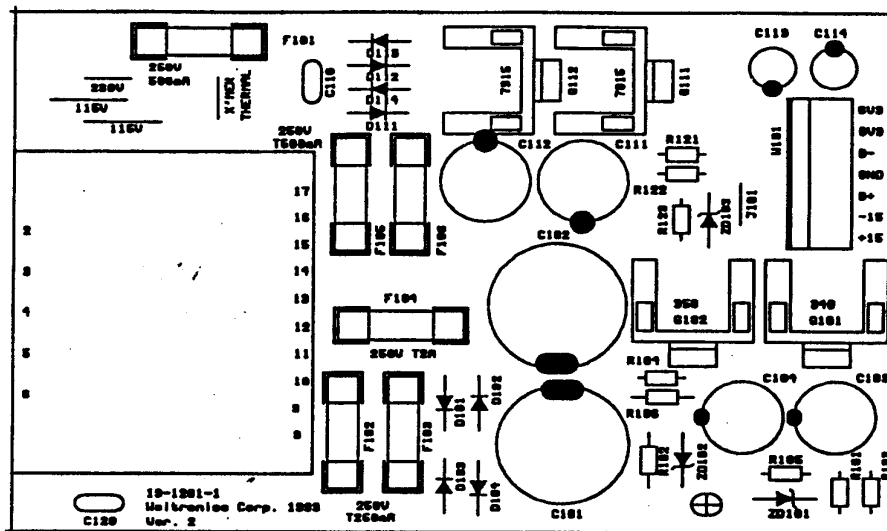
Dimensions (W x H x D)..... 430 x 112 x 288 mm

Net Weight..... 6.5Kg

Shipping weight..... 7.5Kg

WIRING DIAGRAM





3. Jumper wires connected chart:

Mains

Voltages Jumper wires shall be connected for the mains voltage

120V 115V 115V
230V 230V

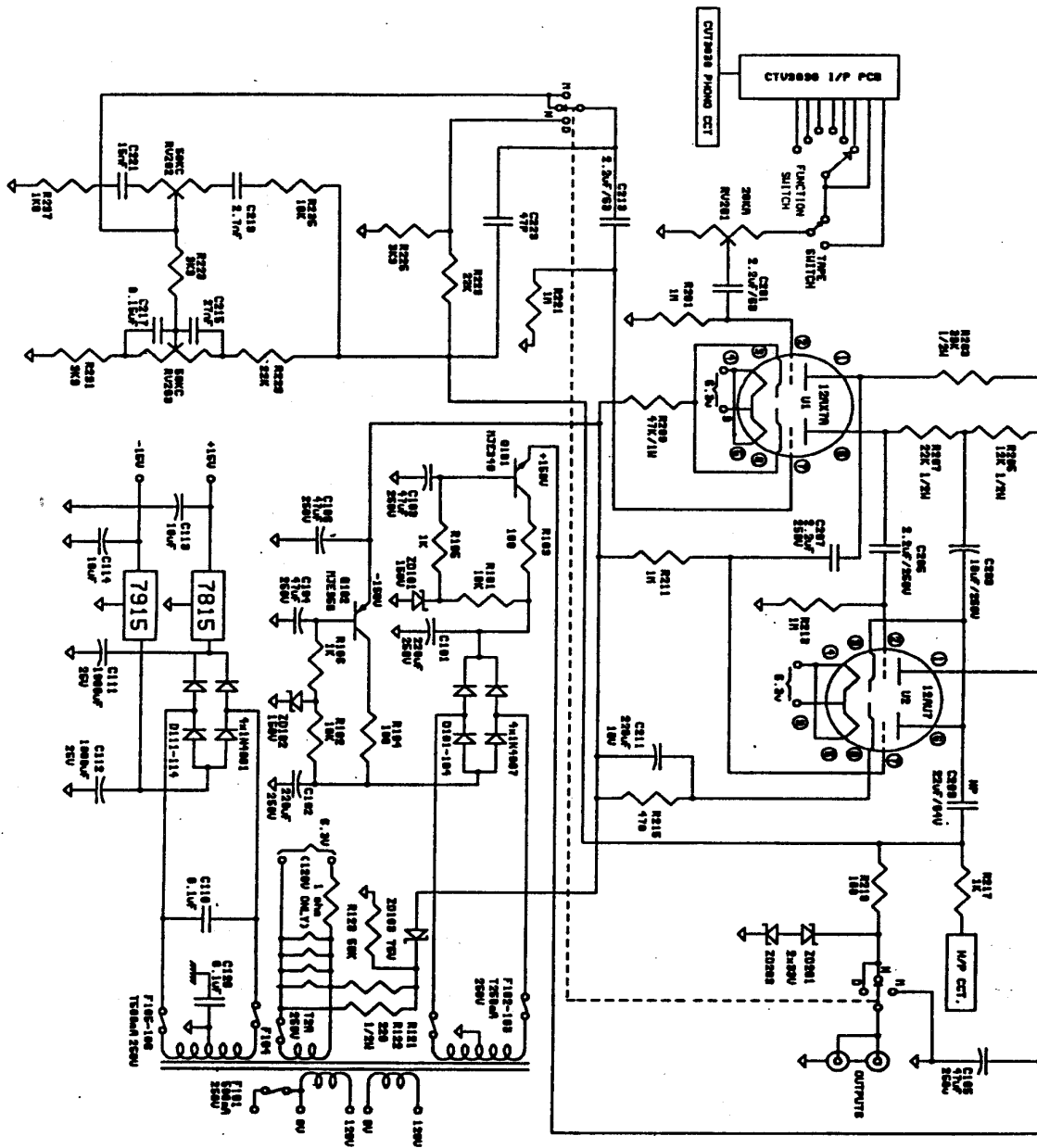
- 4. CAUTION:** For continued protection against risk of fire, replace only with the same type of fuses as specified.

ATTENTION: Utiliser un fusible DE rechange DE meme type.

MAINS	100V – 120V		220V – 240V		
F101	T500mA	250V	T500mA	250V	T: TIME LAG FUSE
F102	T250mA	250V	T250mA	250V	
F103	T250mA	250V	T250mA	250V	
F104	T2A	250V	T2A	250V	
F105	T500mA	250V	T500mA	250V	
F106	T500mA	250V	T500mA	250V	

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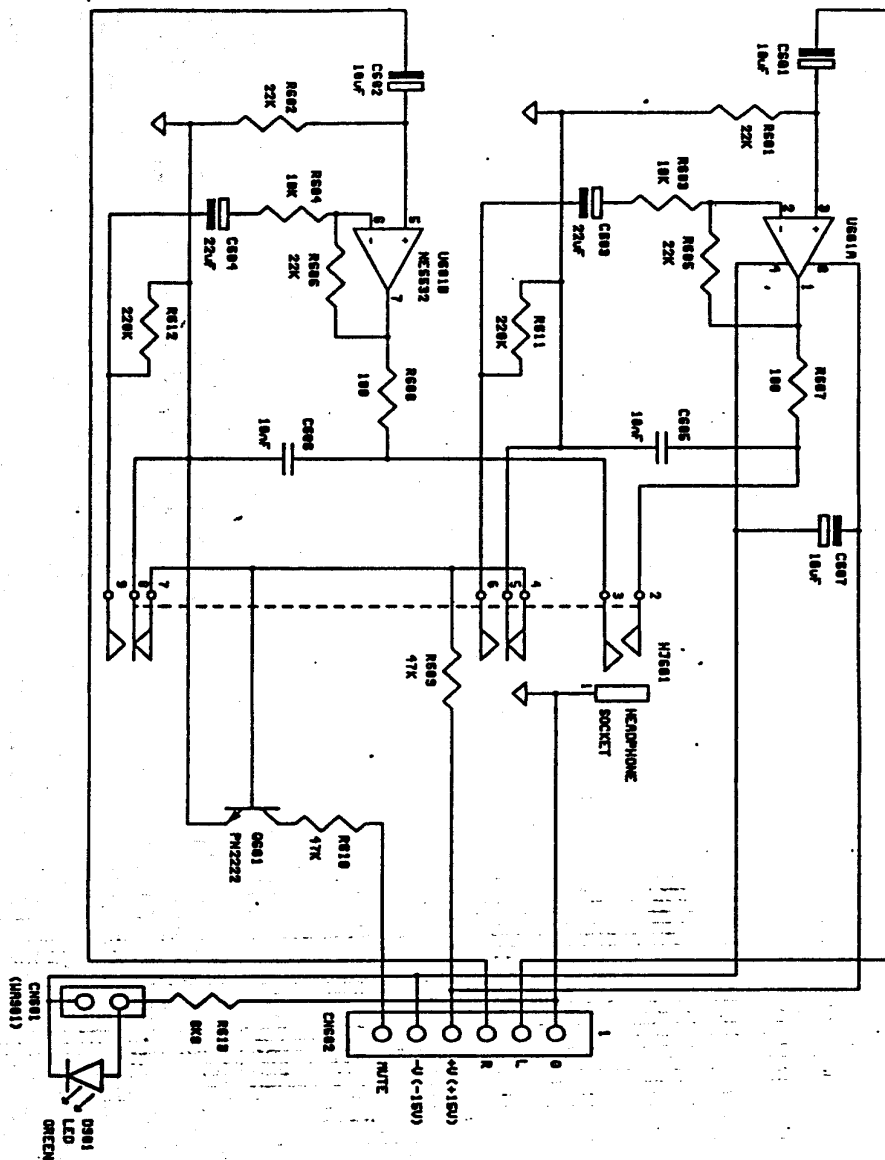
SCHEMATIC DIAGRAM (PRE AMPLIFIER and POWER SUPPLY)



MD90-1261 (PARTS SIDE)



SCHEMATIC DIAGRAM (HEADPHONE AMP)



MD90-1262 (PARTS SIDE)

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MD90-1215 (PARTS SIDE)



PARTS LIST

CVT1030 PARTS LIST

SYMB LOC.	PARTS NO.	DESCRIPTION	SPRCIFICATION	Q'TY
	11-6149*A	CHASSIS ASS'Y	CVT1030	1
	11-6171	FRONT CHASSIS	CVT3030	1
	11-8418-3	MAIN CHASSIS	CVT1030	1
	11-8419	FRONT PANEL	CVT1030	1
	11-8473-1	AUX PANEL	CVT3030	1
	11-8473-2	REAR PANEL	120V (A1)	1
	50-1038-1	REAR PANEL	230V (EC)	1
	15-2037	CABINET	CVT3030	1
	15-2037-1	GROUND BOLT		1
	15-2037-2	GROUND NUT		1
	15-2037-3	BOLT NUT, M3.5		1
	15-2037-4	STOP WASHER		1
	15-2037-5	CONNECTOR WASHER		1
	12-3149	GEAR WASHER		1
	12-3150	VOLUME KNOB A		1
	12-3151	VOLUME KNOB B		1
	12-3152GN	CONTROL KNOB		5
	28-1046-1B	POWER SW BUTTON		1
	28-1046-2B	FOOT		2
	28-2074	FOOT		2
	28-1049-1	SPONGE, FOOT		4
	28-1049-2	CUSHION	CONTRON KNOB	5
	28-1049-3	CUSHION B	VOLUME	1
	14-5003	CUSHION A	VOLUME	1
	14-5027	BUSHING		1
	14-5028	POWER CORD	UL/CSA 120V (A1)	1
	12-2110	POWER CORD	ENKO 230V (EC)	1
	12-2122	AC OUTLET	UL/CSA 120V (A1)	3
		AC OUTLET	ENKO 230V (EC)	1
	CT-5256	PACKING ASS'Y	CVT1030	1
	CT-5257	INNER CARTON		0.5
	34-1065-1	OUTER CARTON		1
	34-1065-2	POLYLONE, FRONT		1
	27-2012G	POLYLONE, REAR		1
	21-4068	RCA CABLE	GOLD PLATE	1
		OWNER'S MANUAL		1
	MD90-1261	PRE AMP MODULE		
	90-1261	PRE AMP BLOCK	CVT1030	1
R203, 204	16-1/2XA393J	RES	M.X. 39K 1/2W +/-5%	2
R205, 206	16-1/2XA123J	RES	M.X. 12K 1/2W +/-5%	2
R207, 208	16-1/2XA223J	RES	M.X. 22K 1/2W +/-5%	2
	16-1HF010J	RES (A1/B/B1)	M.F. 1 ohm 1W +/-5%	2
R209, 210	16-1XA473J	RES	M.X. 47K 1W +/-5%	2
R108, 109, 201, 202	16-1/4MA105F	RES	M.X. 1M 1/4W +/-1%	4
R211, 214	16-1/4MA105F	RES	M.X. 1M 1/4W +/-1%	4
R215, 216	16-1/4MA471F	RES	M.F. 470 1/4W +/-1%	2
R217, 218	16-1/4MA102F	RES	M.F. 1K 1/4W +/-1%	2
R219, 220	16-1/4MA101F	RES	M.F. 100 1/4W +/-1%	2
R231, 232	16-1/4MA392F	RES	M.F. 3K9 1/4W +/-1%	4
R229, 230	16-1/4MA223F	RES	M.F. 22K 1/4W +/-1%	4
R233, 234	16-1/4MA332F	RES	M.F. 3K3 1/4W +/-1%	2
R235, 236	16-1/4MA103F	RES	M.F. 10K 1/4W +/-1%	2
R237, 238	16-1/4MA182F	RES	M.F. 1K8 1/4W +/-1%	2
C205, C208	17-25FR225K	CAP. P=22mm	M.PE. 2u2F 250V +/-10%	6
C201, 202, 213, 214	17-25FA225K	CAP. MER. P=15mm	MER. 2u2F 250V +/-5%	2
C203, 204	17-25ER106M	CAP	E.C. 10u 250V +/-20%	2
C209, 210	17-6.3ER226MMP	CAP	E.C. 22uF 63V +/-20%	2
C211, C212	17-1.6ER227M	CAP	E.C. 220uF 16V +/-20%	2
C105, 106	17-25ER476M	CAP	E.C. 47uF 250V +/-20%	2
C215, 216	17-6.3FR273J	CAP	M.PE. 27nF 63V +/-5%	2
C217, 218	17-6.3FR154J	CAP	M.PE. 150nF 63V +/-5%	2
C219, 220	17-6.3FR272J	CAP	M.PE. 2n7F 63V +/-5%	2
C221, C222	17-6.3FR153J	CAP	M.PE. 15nF 63V +/-5%	2
C223, C224	17-50R470J	CAP RD16CG-470J-500RR	MC.C. 47pF 50V +/-5%	2
U1, 2	30-5003	VACUUM TUBE	12AX7A/ECC83	2
U3, 4	30-5004	VACUUM TUBE	12AU7/ECC82	2
ZD201-ZD204	30-1/2Z33J	ZENER DIODE	Z 33V 1/2W +/-5%	4
RV201	29-4165-2	POT, VOLUME	RK1612280R76-20Kax2-EK	1
RV202, 203	29-4167	POT, BASS/TREBLE	RK16312AA202-50Kcx2-EK	2
SW202	31-1241	S/V, TAPE/SOURCE	SRRZ542N01-EK	1
SW201	31-1242	S/V, FUNC. SEL.	SRRZ546N08-EK	1
SW203	31-1247	S/V, HP, NOR. DIR.	SRRS243N24-EK	1
	90-1261-1	POWER SUPPLY BLOCK	FR4	1
R103, 104	16-1/4XA101J	RES	M.X. 100 1/4W +/-5%	2
R101, 102	16-1/4XA183F	RES	M.F. 18K 1/4W +/-1%	2
R105, 106	16-1/4MA102F	RES	M.F. 1K 1/4W +/-1%	2
R121, 122	16-1/2XA221J	RES	M.X. 220 1/2W +/-5%	2
	16-1/2XA563J	RES	M.X. 56K 1/2W +/-5%	1
C101, 102	17-25ER227M	CAP BUBYCON	E.C. 220uF 250V +/-20%	2
C103, 104	17-25ER476M	CAP	E.C. 47uF 250V +/-20%	2

CVT1030 PARTS LIST

SYMB LOC.	PARTS NO.	DESCRIPTION	SPRCIFICATION	Q'TY
C111, 112	17-2.5ER108M	CAP	E.C. 1000uF 25V +/-20%	2
C113, 114	17-2.5ER106M	CAP	E.C. 10uF 25V +/-20%	2
C110, 120	17-5FR104J	CAP	M.PE. 0.1uF 50V +/-10%	2
F102, 103	32S1250250TS	FUSE	T250mA 250V SEMKO 230V (EC)	2
F105, 106	32S1250500TS	FUSE	T500mA 250V SEMKO 230V (EC)	2
F104	32S12502K0TS	FUSE	T2A 250V SEMKO 230V (EC)	1
F101	32S1250500TS	FUSE	T500mA 250V SEMKO 230V (EC)	1
	32S1250250TU	FUSE	T250mA 250V UL/CSA 120V (A1)	2
	32S1250500TU	FUSE	T500mA 250V UL/CSA 120V (A1)	2
	32S12502K0TU	FUSE	T2A 250V UL/CSA 120V (A1)	1
	32S1250500TU	FUSE	T500mA 250V UL/CSA 120V (A1)	1
D101-D104	30-1N4007	DIODE	1N4007	4
D111-D114	30-1N4002	DIODE	1N4002	4
ZD101, ZD102	30-1/2Z150J	ZENER	Z 150V 1/2W +/-5%	2
	30-1/2Z75	ZENER	Z 75V 1/2W +/-5%	1
Q101	30-MJE340	TR	MJE340	1
Q102	30-MJE350	TR	MJE350	1
Q111	30-L7815	REGULATOR	7815	1
Q112	30-L7915	REGULATOR	7915	1
	29-2150	X'MER	DS-0967	1
F101-F106	32S2016	FUSE HOLDER		12
Q101, 102, 111, 112	11-5072	HEAT SINK	HEAT SINK	4
	13-4127	TR. SILICON		4
	90-1262-4	POWER S/W BLOCK		1
	17-40CR472M	AC CAP	472/400V	1
	30-1240	POWER SWITCH	SDDFA3117U-EK	1
	MD90-1262	HEADPHONE MODULE		1
	90-1262	HEADPHONE BLOCK		1
C601, 602	17-3.5ER106M	CAP	E.C. 10uF 35V +/-20%	2
C607	17-5ER106M	CAP	E.C. 10uF 50V +/-20%	1
C603, 604	17-3.5ER226M	CAP	E.C. 22uF 35V +/-20%	2
C605, 606	17-5FR103J	CAP	M.PE. 10nF 50V +/-5%	2
R601, 602, 605, 606	16-1/4MA223F	RES	M.F. 22K 1/4W +/-1%	4
R603, 604	16-1/4MA103F	RES	M.F. 10K 1/4W +/-1%	2
R607, 608	16-1/4MA101F	RES	M.F. 100 1/4W +/-1%	2
R611, 612	16-1/4MA224F	RES	M.F. 220K 1/4W +/-1%	2
R609, 610	16-1/4MA473F	RES	M.F. 47K 1/4W +/-1%	1
R613	16-1/4MA682F	RES	M.F. 6K8 1/4W +/-1%	1
Q601	30-PN2222	TR	PN2222A	1
U601	30-NE5532	IC	NE5532	1
	12-2128G	HEADPHONE JACK		1
	90-1262-2A-5	OUTPUT BLOCK		1
	12-2159	SOCKET		1
	12-2160	CONNECTOR		1
	13-3058-1	RCA JACK	CPS-054GA-92	1
	11-1134-3	TOP COVER		1
	11-1135	REAR CASE		1
	11-2368-1	MODULE BKT		1
	MD90-1215	INPUT MODULE		1
	90-1215	INPUT PCB BLOCK	CVT3030/CVT1030	1
	12-2146	RCA JACK	RED/WHT/4P	2
	12-2147	RCA JACK	RED/WHT/6P	1
	16-1/6MA102F	RES	M.F. 1K 1/4W +/-1%	12
	17-5DR151J	CAP.CERAMIC	M.CER. 150pF 50V +/-5%	12
	90-1215-2	PHONO PCB BLOCK	CVT3030	1
	12-2141	RCA JACK	RED/WHT/2P	1
	16-1/6MA102F	RES	M.F. 1K 1/6W +/-1%	2
	16-1/6MA472F	RES	M.F. 4K7 1/6W +/-1%	2
	16-1/6MA334F	RES	M.F. 330K 1/6W +/-1%	2
	16-1/6MA563F	RES	M.F. 56K 1/6W +/-1%	2
	16-1/6MA103F	RES	M.F. 10K 1/6W +/-1%	2
	16-1/6MA221F	RES	M.F. 220 1/6W +/-1%	2
	16-1/6MA134F	RES	M.F. 130K 1/6W +/-1%	2
	16-1/6MA113F	RES	M.F. 11K 1/6W +/-1%	2
	16-1/6MA820F	RES	M.F. 82 1/6W +/-1%	2
	17-5DR470J	CAP.CERAMIC	M.CER. 47pF 50V +/-5%	2
	17-5DR221J	CAP.CERAMIC	M.CER. 220pF 50V +/-5%	2
	17-5FR152J	CAP	M.PE. 1n5F 50V +/-5%	2
	17-5DR104K	CAP.CERAMIC	M.CER. 0.1uF 50V +/-10%	1
	17-6V3ER227M	CAP	E.C. 220uF 6V3 +/-20%	2
	17-2.5ER106M	CAP	E.C. 10uF 25V +/-20%	4
	17-5ER106M	CAP	E.C. 10uF 50V +/-20%	1
	17-5FR243J	CAP.MYLAR	MYLAR 24nF 50V +/-5%	2
	17-5FR682J	CAP.MYLAR	MYLAR 6n8F 50V +/-5%	2
	30-NE5532	IC	NE5532	1
	29-1089	COIL	TORIC	2