

NAD SERVICE MANUAL

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
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3240PE

INTEGRATED AMPLIFIER

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-3240PE-

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REAR PANEL

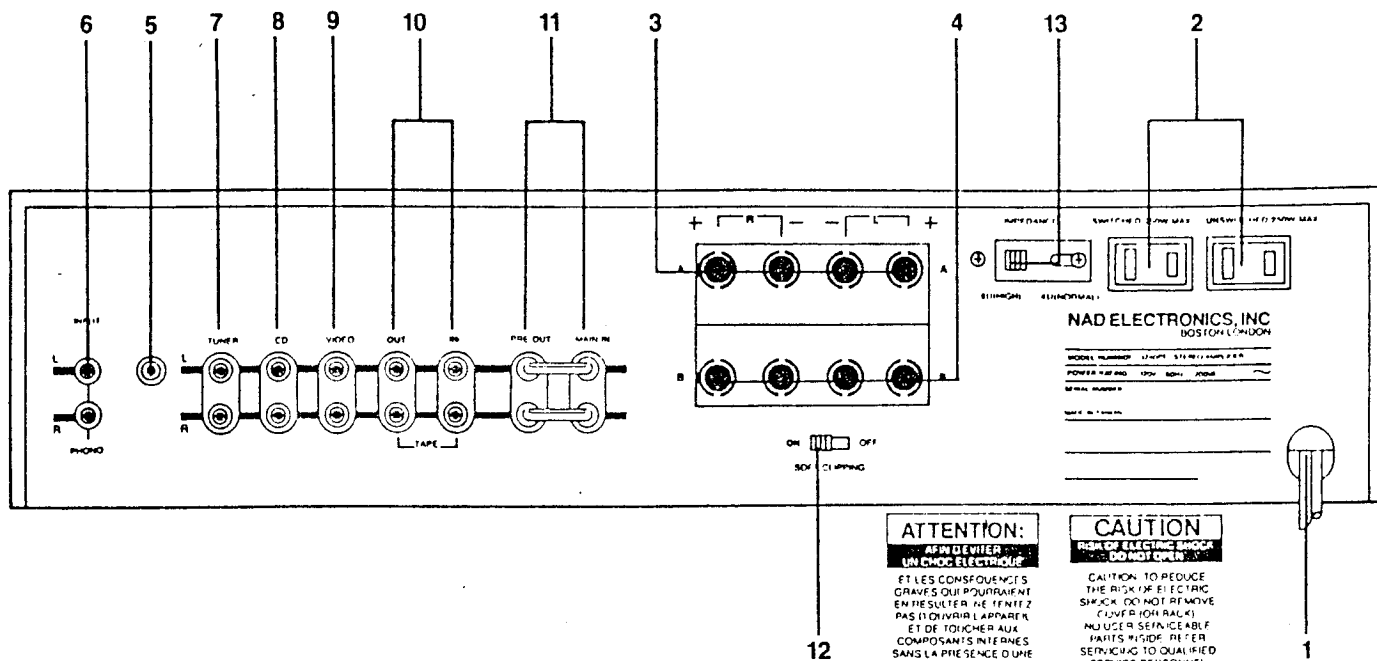
1. AC Line Cord
2. AC Convenience Outlets
3. Speakers A
4. Speakers B
5. Phono Ground
6. Phono Input
7. Tuner Input
8. CD Input
9. Video Input
10. Tape Input/Output
11. Preamp Out, Main In
12. Soft Clipping
13. Speaker Impedance

LE PANNEAU ARRIERE

1. Cordon d'alimentation
2. Prises CA
3. Enceintes A
4. Enceintes B
5. Masse phonocordeur
6. Entrée phono
7. Entrée tuner
8. Entrée lecteur de disque compact
9. Entrée vidéo
10. Entrée-Sortie magnétophone
11. Sortie de préamplification
12. Ecrêtage en douceur
13. Impédance

RÜCKSEITE

1. Netzkabel
2. Sekundär-Steckdosen
3. Anschlüsse für Lautsprechergruppe A
4. Anschlüsse für Lautsprechergruppe B
5. Masseanschluß für Plattenspieler
6. Plattenspieler-Eingang
7. Tuner-Eingang
8. CD-Eingang
9. Video
10. Tonanlage: al Eingang Ausgang
11. Vorverstärker Ausgang Endverstärker Eingang
12. Impulsengrenzungs-Schalter
13. Lautsprecherimpedanz-Schalter



FRONT PANEL

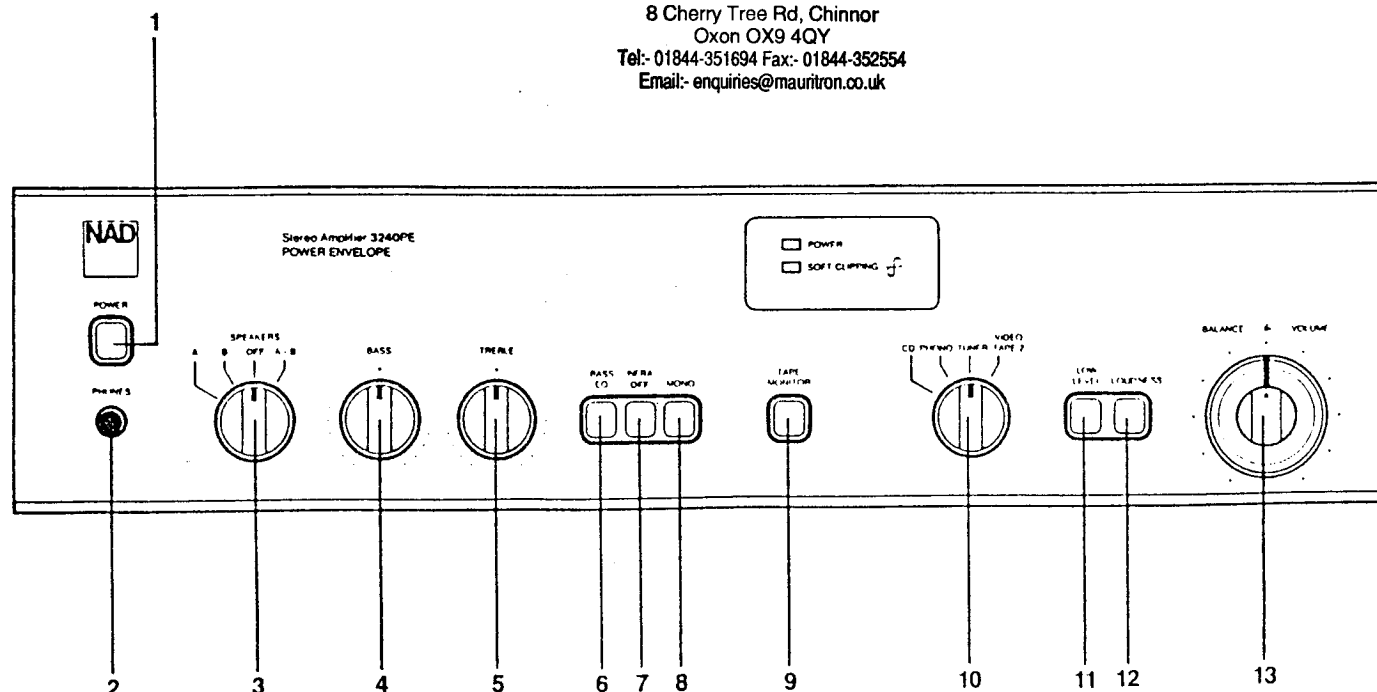
1. Power
2. Phones
3. Speaker Selector
4. Bass
5. Treble
6. Bass EQ
7. Infrasonic Filter Off
8. Mono
9. Tape Monitor
10. Input Selector
11. Low Level
12. Loudness
13. Volume/Balance

LE PANNEAU AVANT

1. Alimentation
2. Casque d'écoute
3. Sélecteur d'enceintes
4. Graves
5. Aigus
6. Bass Eq
7. Filtre infrasonique
8. Mono
9. Commutateur de surveillance de bande
10. Sélecteur d'entrée
11. - Low level -
12. Commutateur de contour sonore
13. Volume/Équilibrage

FRONTSEITE

1. Netzschalter
2. Kopfhörer-Anschluß
3. Lautsprecher-Wahlschalter
4. Basssteller
5. Höhensteller
6. Bass Equalizer-Schalter
7. Schalter für Infrasschall-Filter
8. Mono-Schere-Schalter
9. Vor-Tuner-Band-Schalter
10. Eingangs-Wahlschalter
11. Schalter für Lautstärkeabsenkung
12. Gehörteigene Lautstärke-Einstellung
13. Lautstärke-Balance-Steller



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Specifications

NAD 3240PE Stereo Amplifier

Measured in accordance with EIA Standard RS-490 (formerly IHF A-202). Measurements referred to 8 ohms taken with Speaker Impedance selector set to "8 Ω (High)." Measurements for 4 and 2 ohms taken with Impedance selector at "4 Ω (Normal)."

Power Amplifier Section

CONTINUOUS AVERAGE POWER

OUTPUT AT 8 OHMS (minimum RMS power per channel, both channels driven, with no more than the rated distortion)	40 W (16 dBW)
Rated distortion (THD), 20 Hz - 20 kHz	0.03%
Clipping power, 1 kHz (maximum continuous power per channel)	50 W
Dynamic Headroom at 8 ohms	+6 dB
Dynamic power (maximum short-term power per channel)	8 ohms 160 W 4 ohms 200 W 2 ohms 250 W

Damping factor	> 50
Slew factor	> 50
Slew rate	15V/ μ sec
T.H.D. and SMPTE I.M. distortion from 250 mW to rated output	< 0.03%
IHF I.M. (CCIF IM) and T.I.M. distortion at rated output	< 0.03%
Input impedance	22 k Ω
Input sensitivity for 1 W/ 40 W out	160 mV / 1.0 V
Power amp gain	25 dB (18X)

Preamplifier Section

Phono Input

Input Impedance	R = 47k Ω , C = 100 pF
Input Sensitivity (1 kHz)	0.55 mV for 1 W out 3.5 mV for 40 W out

Signal-to-Noise Ratio with cartridge connected, A-weighted 76 dB re 5 mV

Input Overload at 20 Hz/1kHz/20kHz 20/180/1500 mV

RIAA Accuracy ± 0.5 dB

High-Level Inputs (Tuner, CD, Video, Tape)

Input Impedance	R = 15 k Ω , C = 100 pF
Input Sensitivity	26 mV for 1W out 160 mV for 40W out

Signal-to-Noise ratio, A-weighted 86 dB re 1 W out
102 dB re 40W out

Input Overload >10 V

Frequency Response 20Hz - 20kHz ± 0.5 dB

Outputs

Preamp output impedance	600 Ω
Tape output impedance	Source Z + 1000 Ω

Controls

Treble	± 7 dB at 10kHz
Bass	± 10 dB at 50 Hz
Bass Equalization	+3 dB at 70 Hz +6 dB at 40 Hz
Infrasonic Filter	-3 dB at 12 Hz 12 dB/octave -20 dB

Low Level (audio muting)

Physical Specifications

Width x Height x Depth	42 x 10.8 x 38 cm. 16.5 x 4.25 x 15 in.
Net Weight	6.7 kg (14 lbs 14 oz)
Shipping Weight	8 kg (17 lb 12 oz)
Power Consumption	50/60 Hz at 110, 120, 220, or 240 VAC 200 W

Specifications are those in effect at the time of printing. NAD reserves the right to change specifications or designs at any time without notice.

ALIGNMENT METHOD

AUDIO SECTION 3240PE

IMPORTANT

Speaker Impedance switch should be in 8 ohm position while adjusting center voltage and idling current.

INITIAL ADJUSTMENT (No load connected)

A. CENTER VOLTAGE

1. Connect DC millivoltmeter to L channel output terminals.
2. Turn on and adjust to 0 V \pm 30mV with VR401 (10KB). Connect DC millivoltmeter to R channel output terminals and adjust VR402 to 0 V \pm 30mV.

B. IDLING CURRENT

1. Remove solder short across R471 and R472.
2. Connect DC millivoltmeter across R471 (1 ohm) (output transistor's collector resistor) and adjust VR403 (1KB) for 26-30mV reading on meter.
Repeat adjust with VR404 (1KB), connecting meter across R472(1 ohm)
3. leave power on for minimum 5 minutes.

FINAL ADJUSTMENT

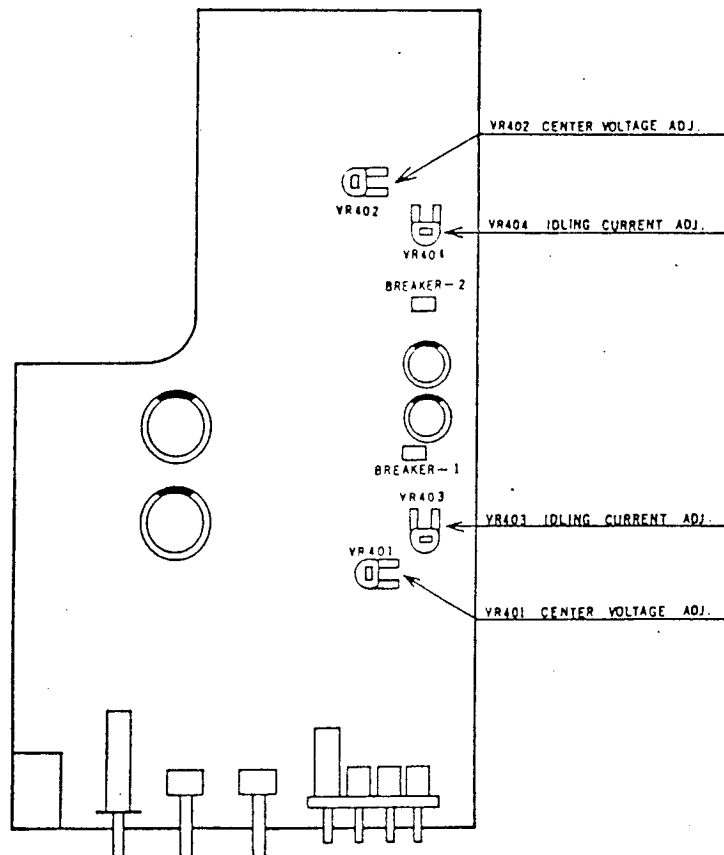
C. CENTER VOLTAGE

1. Repeat step A above.

D. IDLING CURRENT

1. Repeat step B and adjust with VR403, VR404 for 30mV reading on meter.
2. After the alignment is finished, 1 ohm resistor R471, R472 is shorted by solder short.

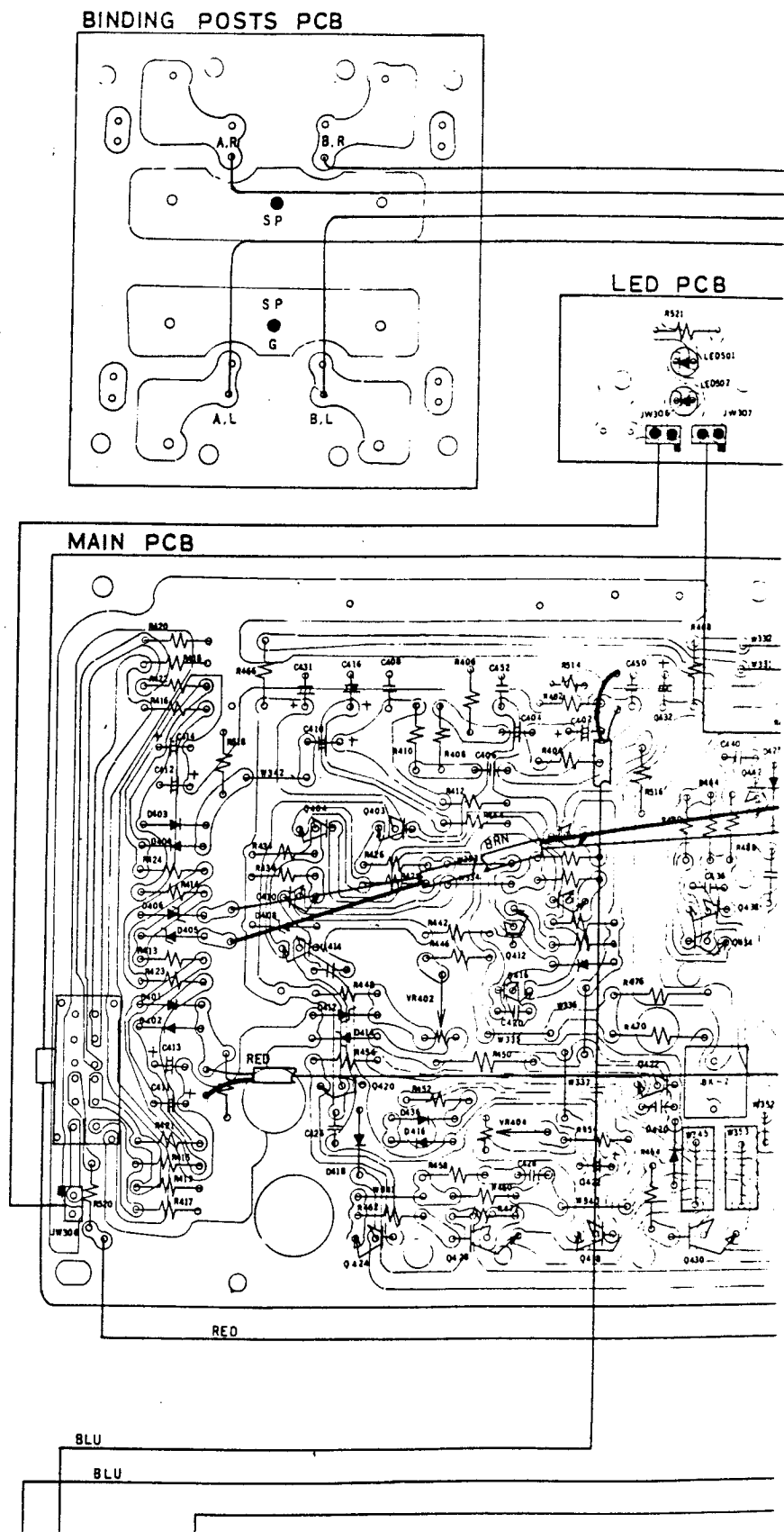
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AMPLIFIER ADJUSTMENT POINTS

PCB LAYOUT AND WIRING DIAGRAM

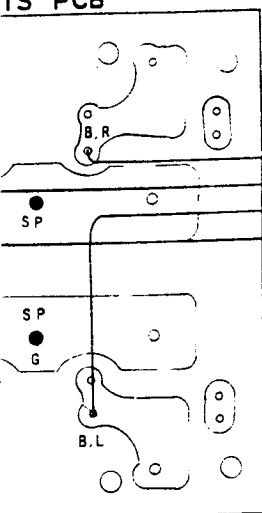
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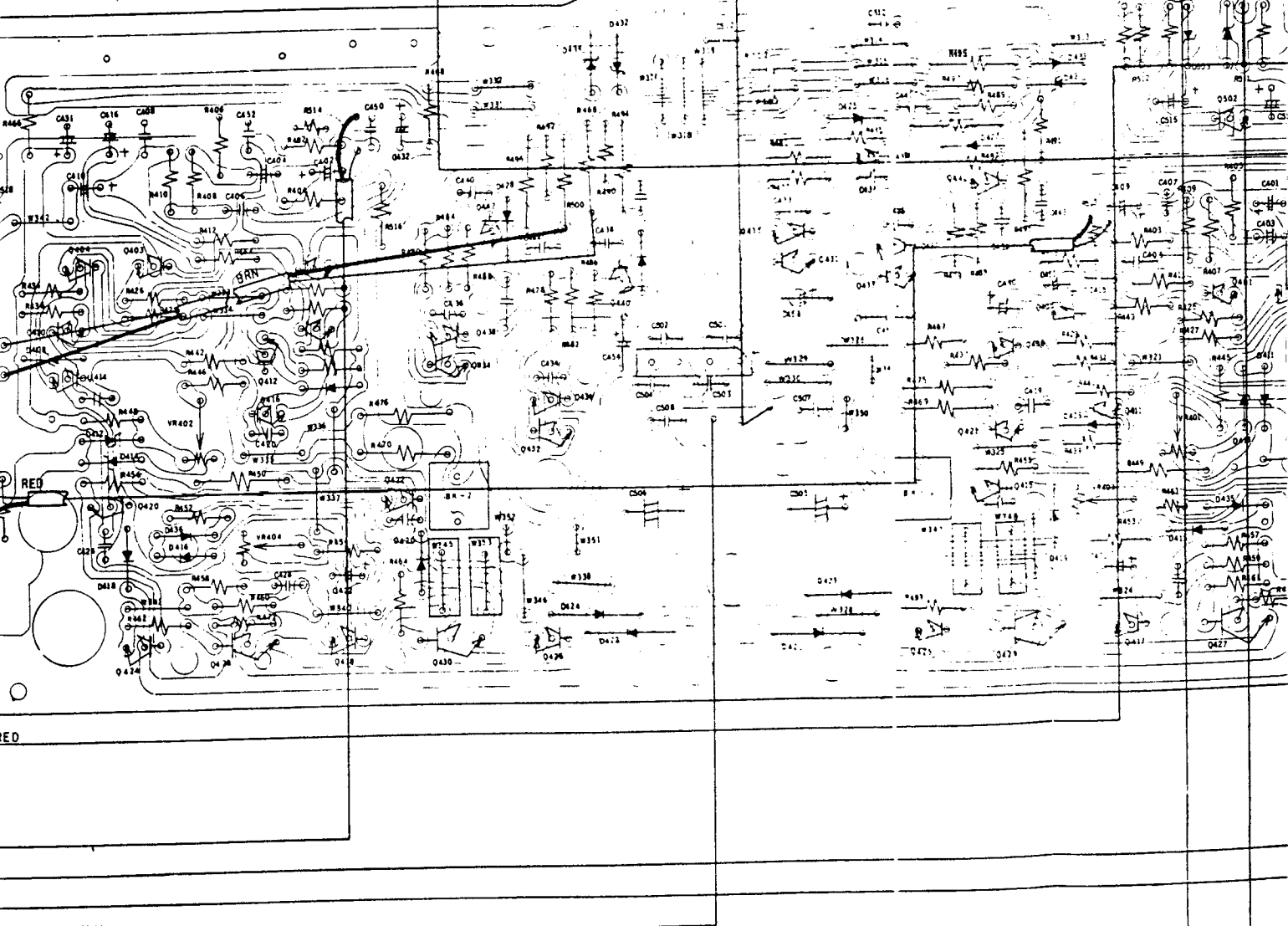
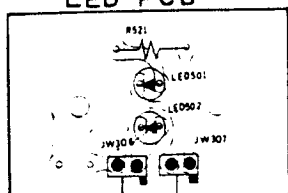
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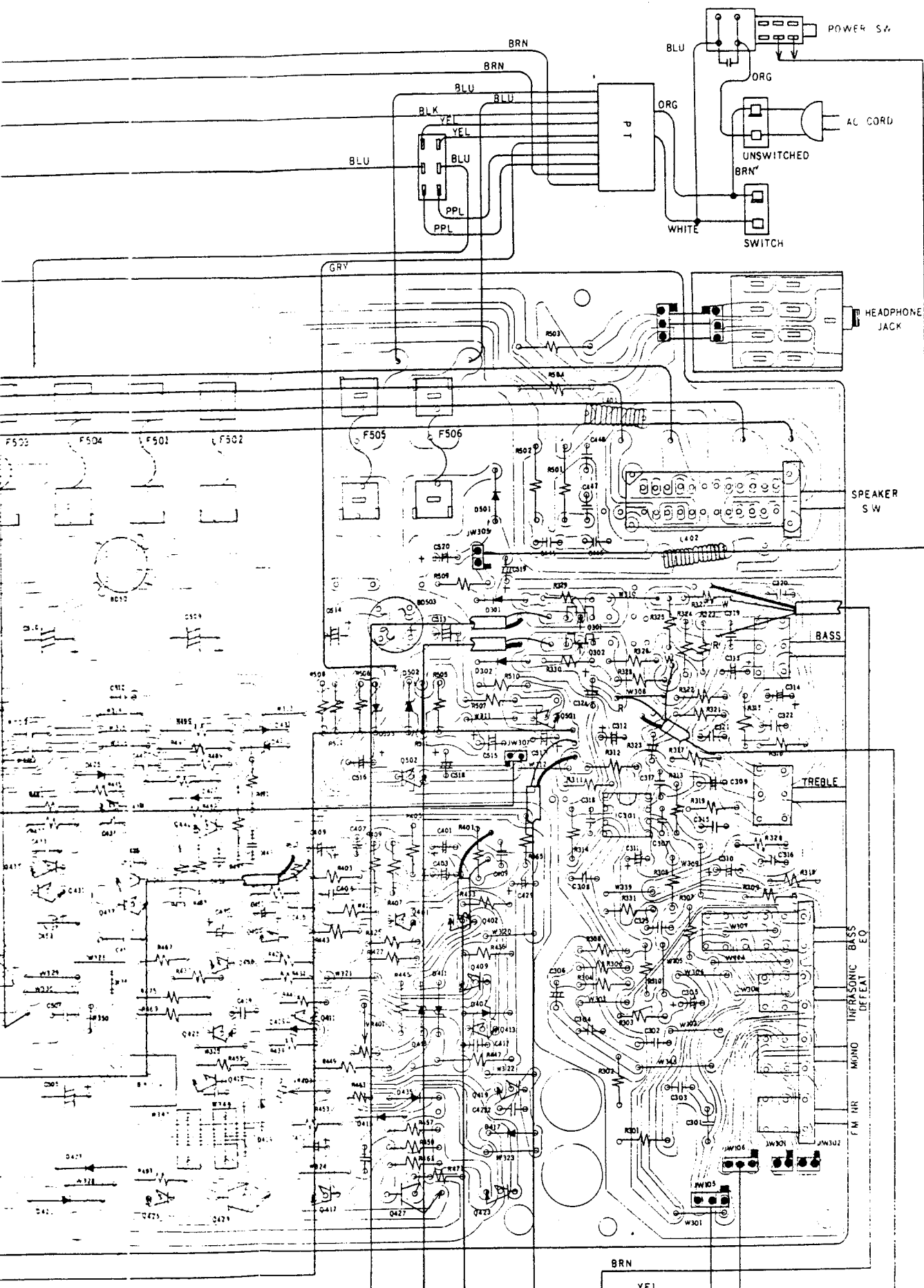
ING DIAGRAM

TS PCB

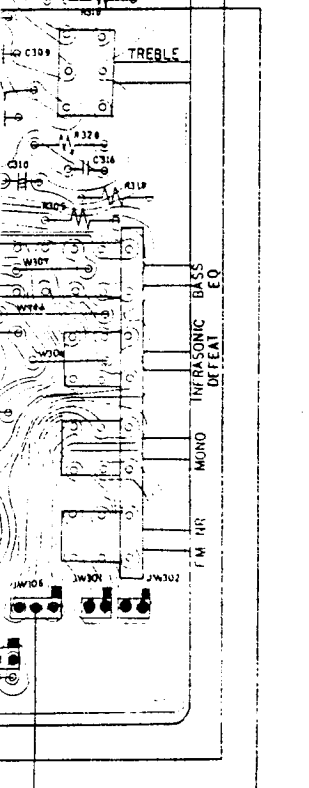


LED PCB





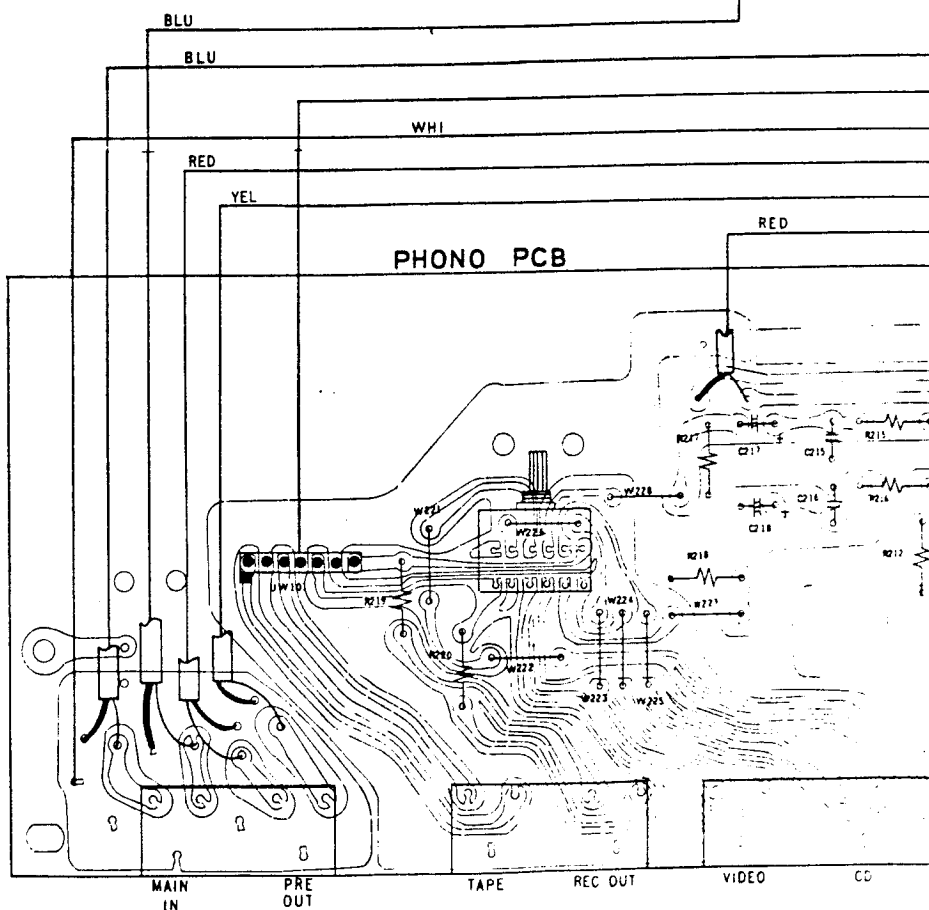
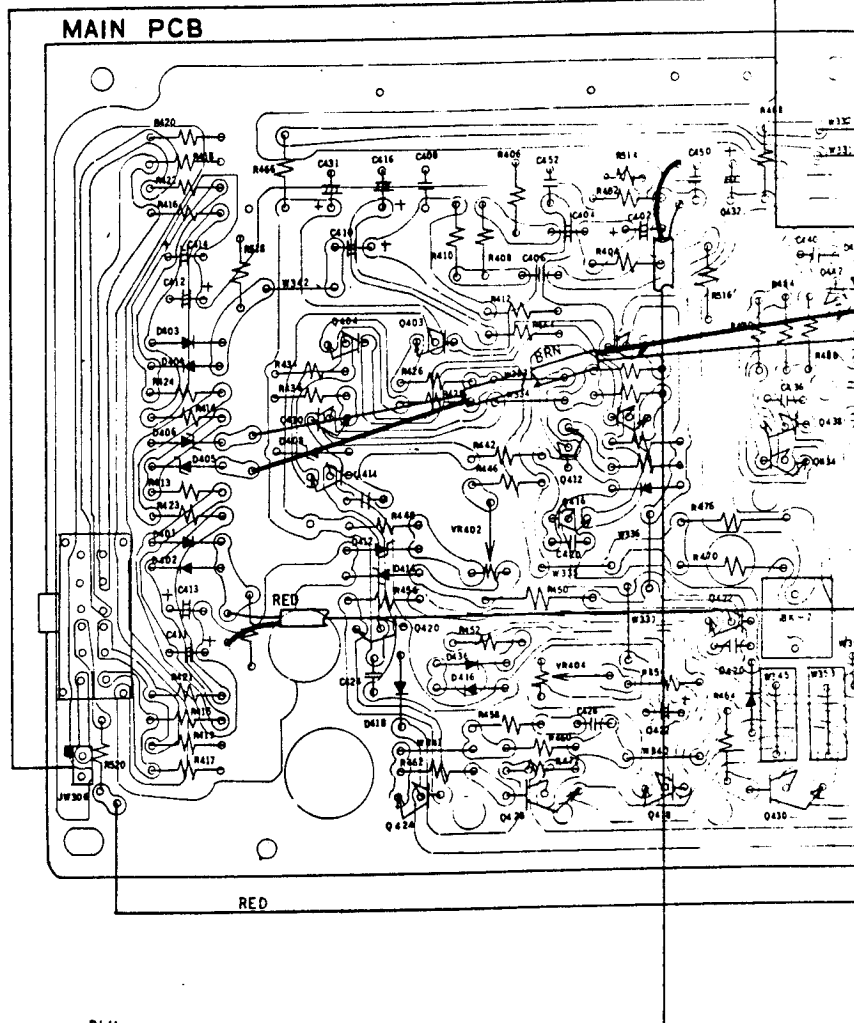
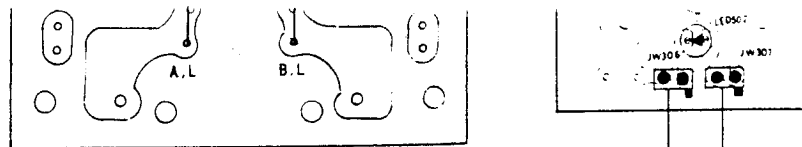
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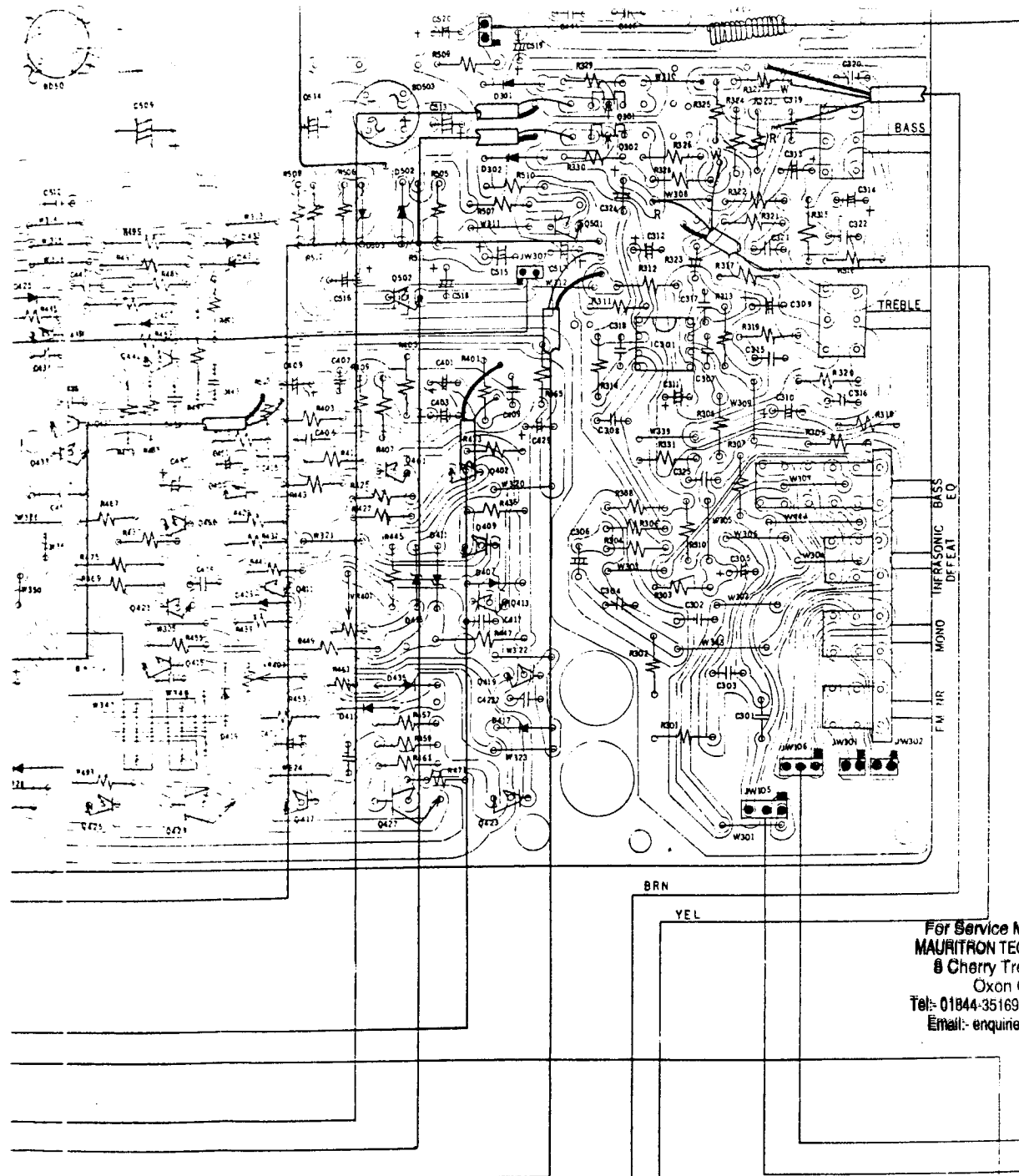


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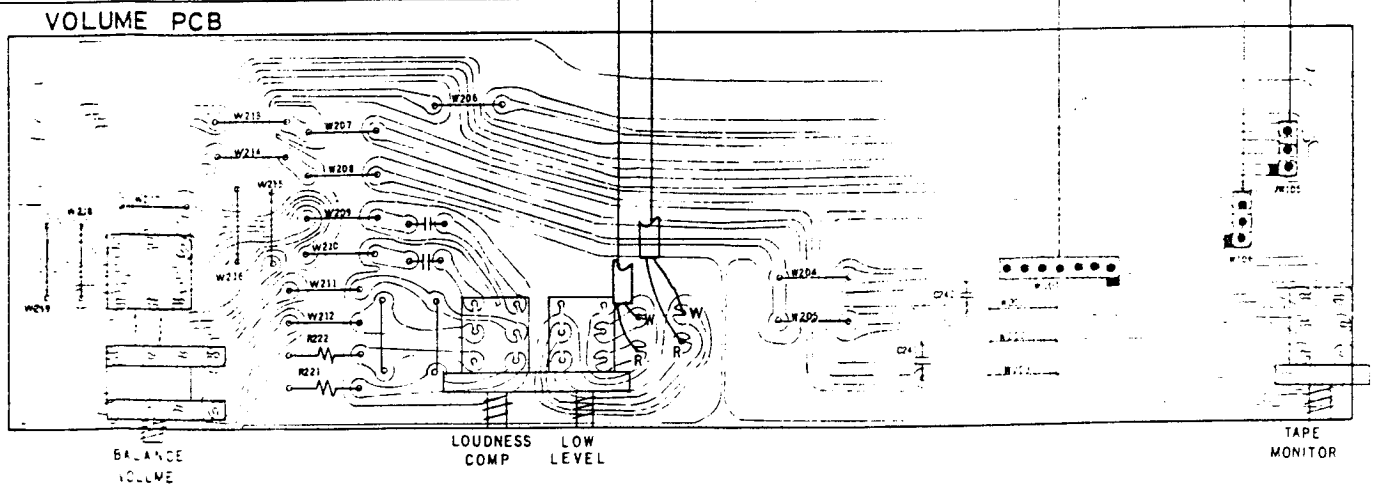
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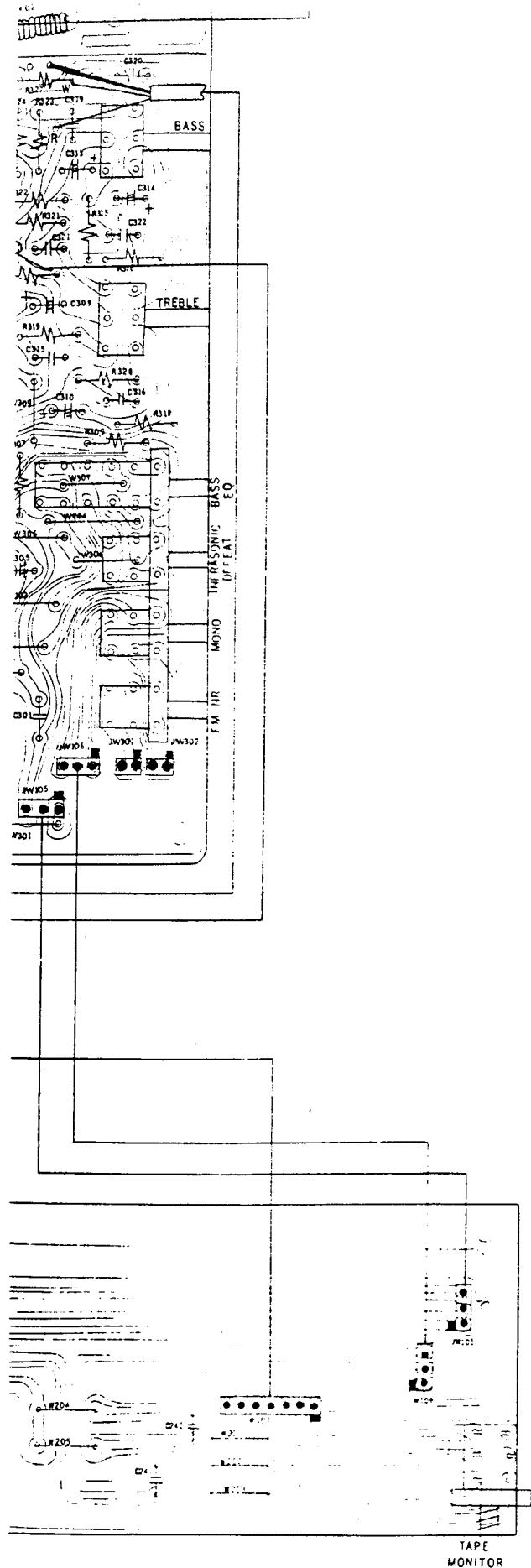




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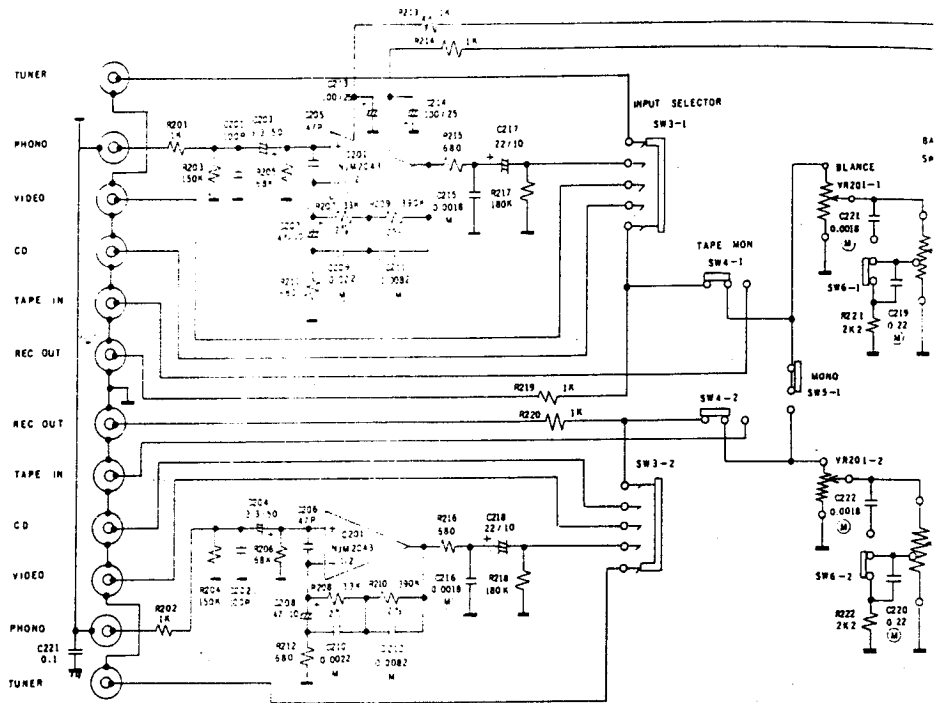


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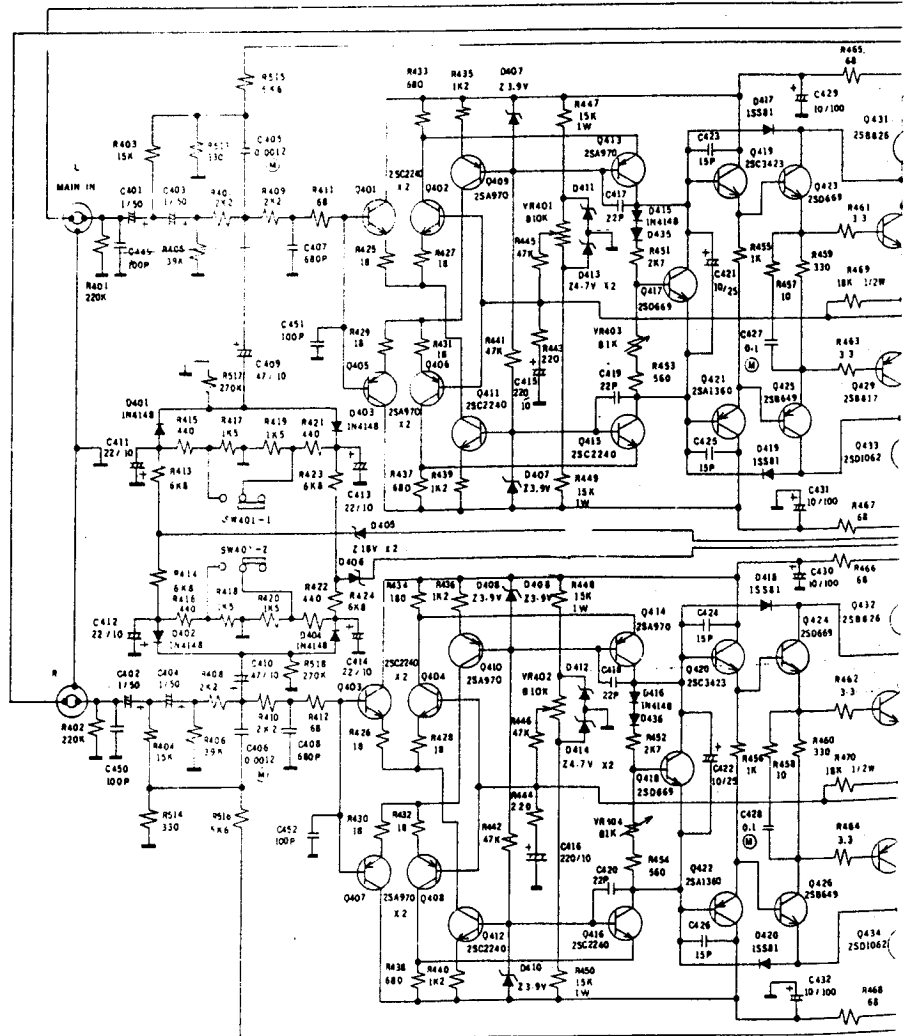


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SCHEMATIC DIAGRAM NAD 3240PE AMPLIFIER



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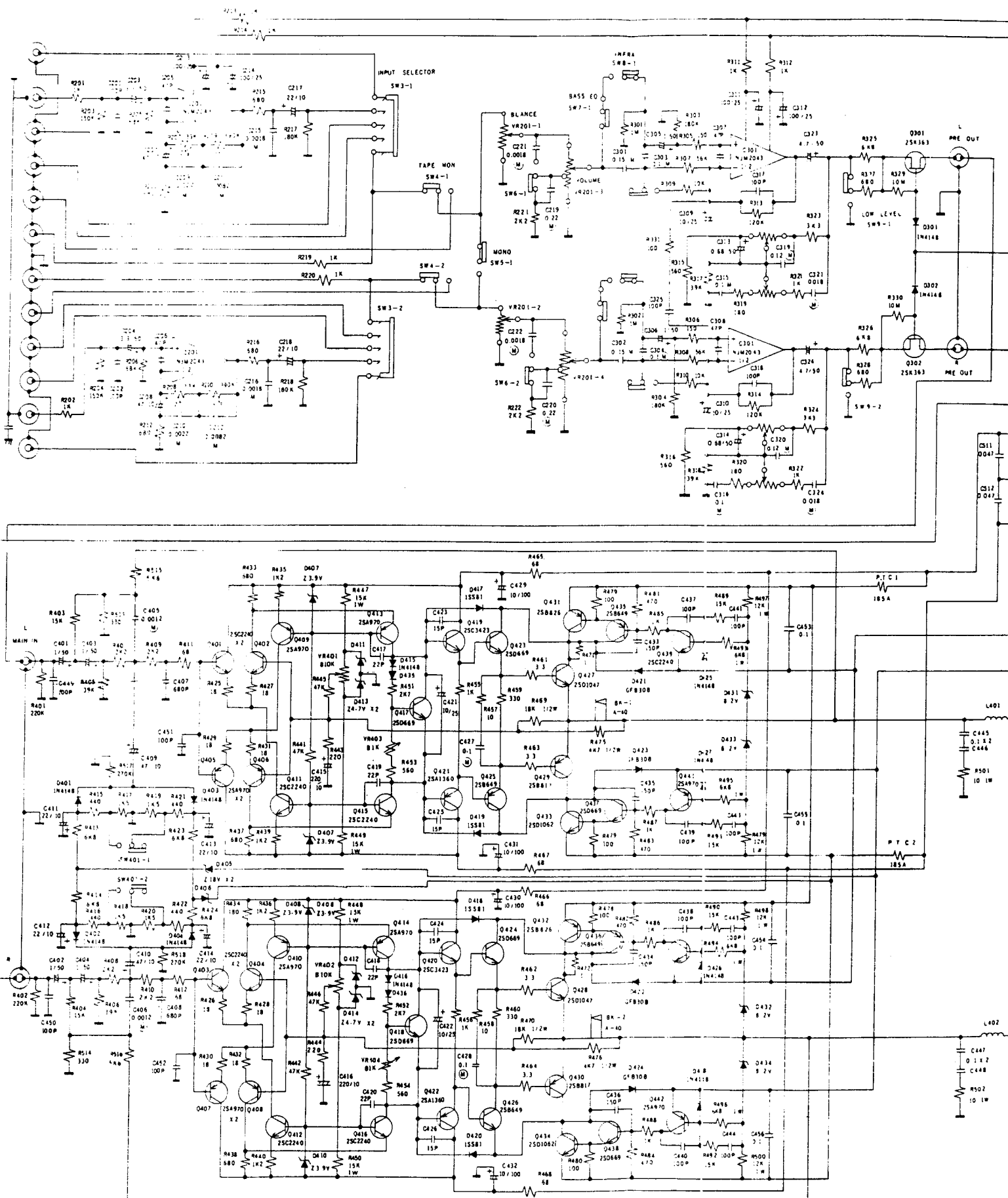


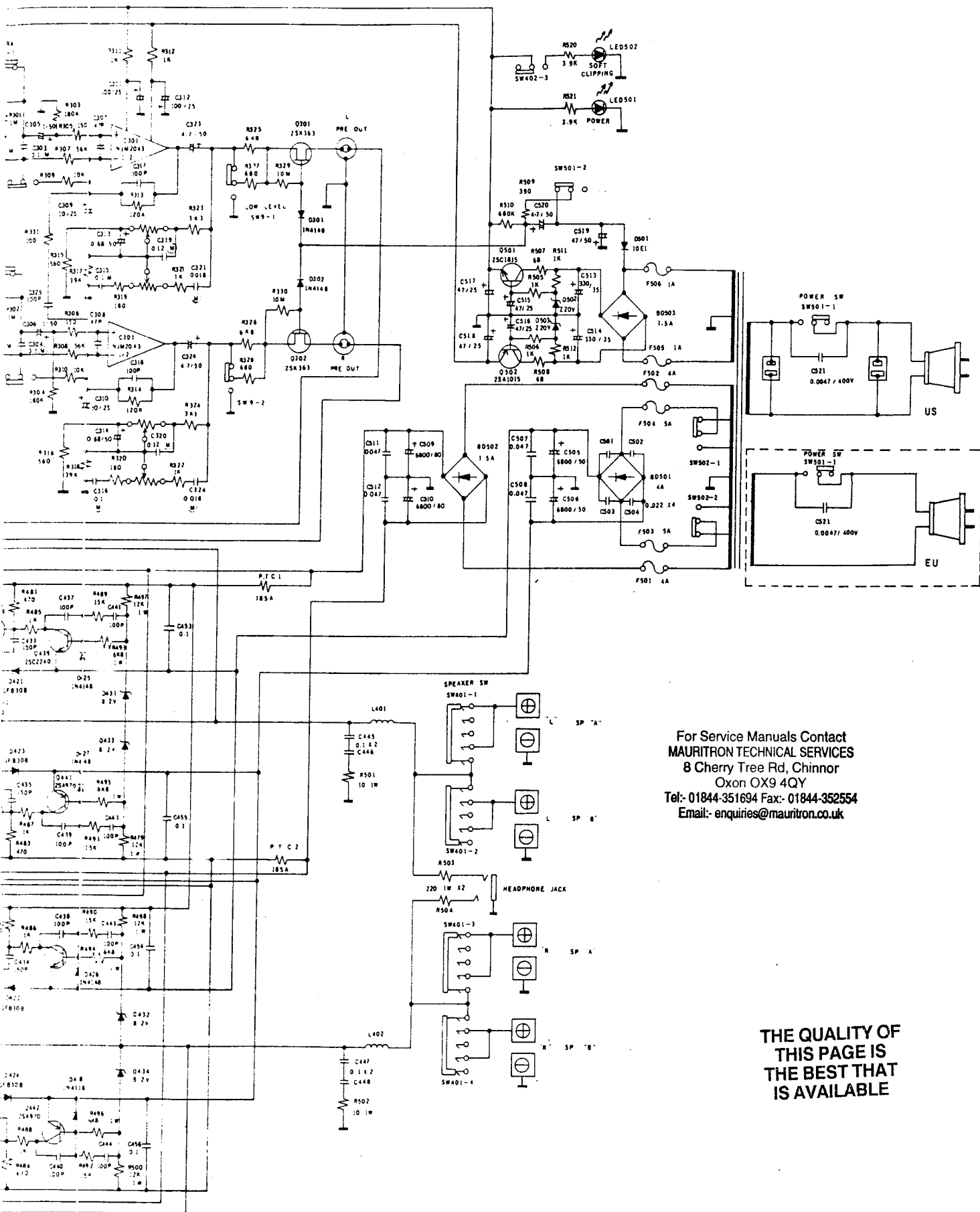
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SCHEMATIC DIAGRAM

NAD 3240PE

AMPLIFIER

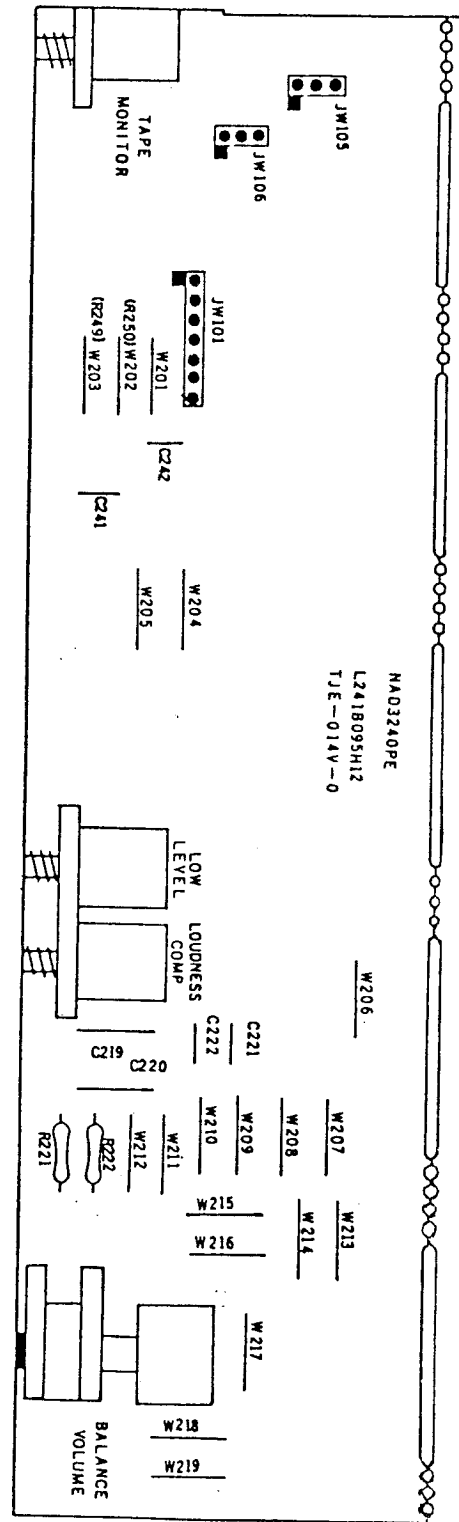




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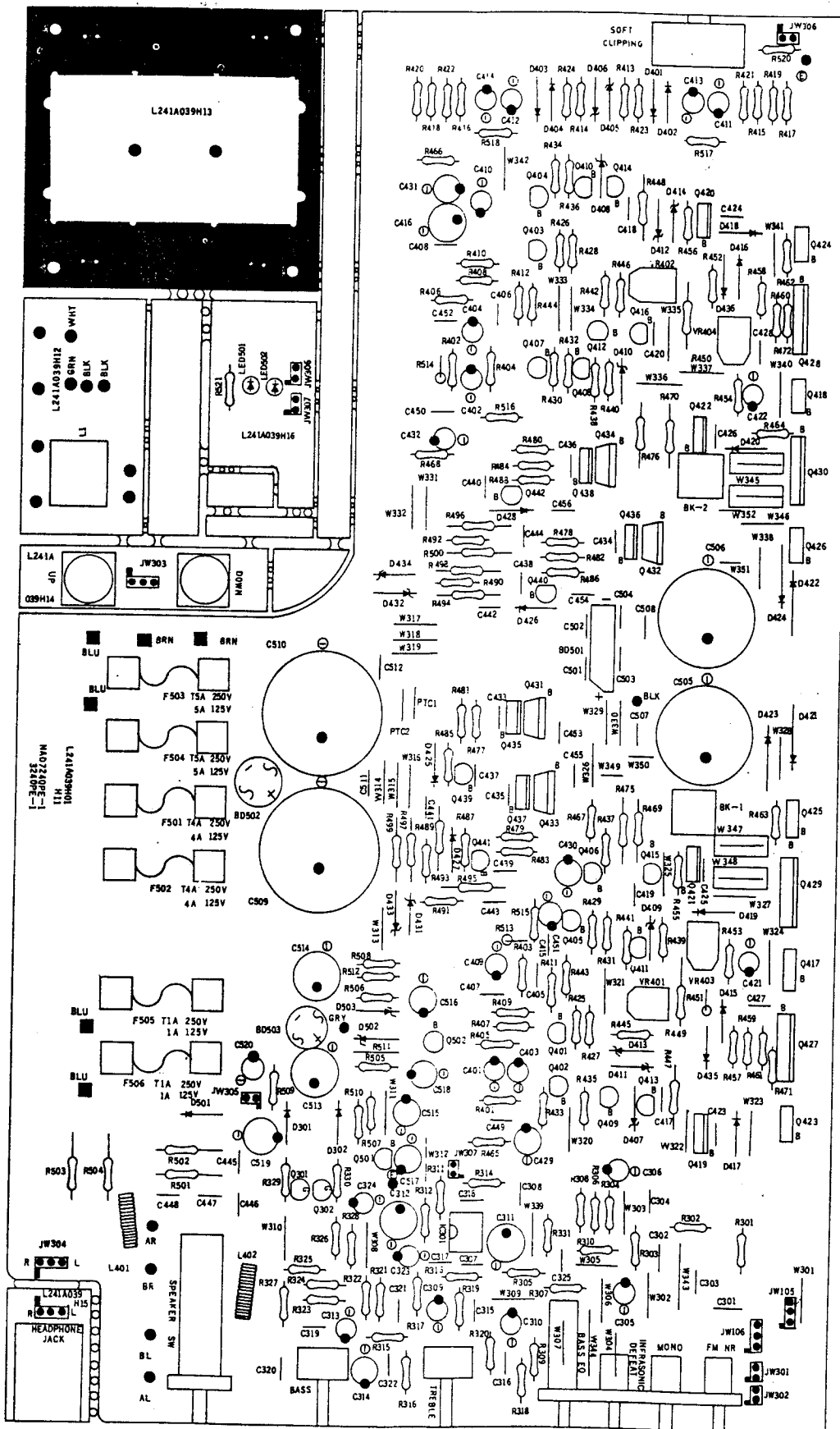
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PCB LAYOUT AND WIRING DIAGRAM

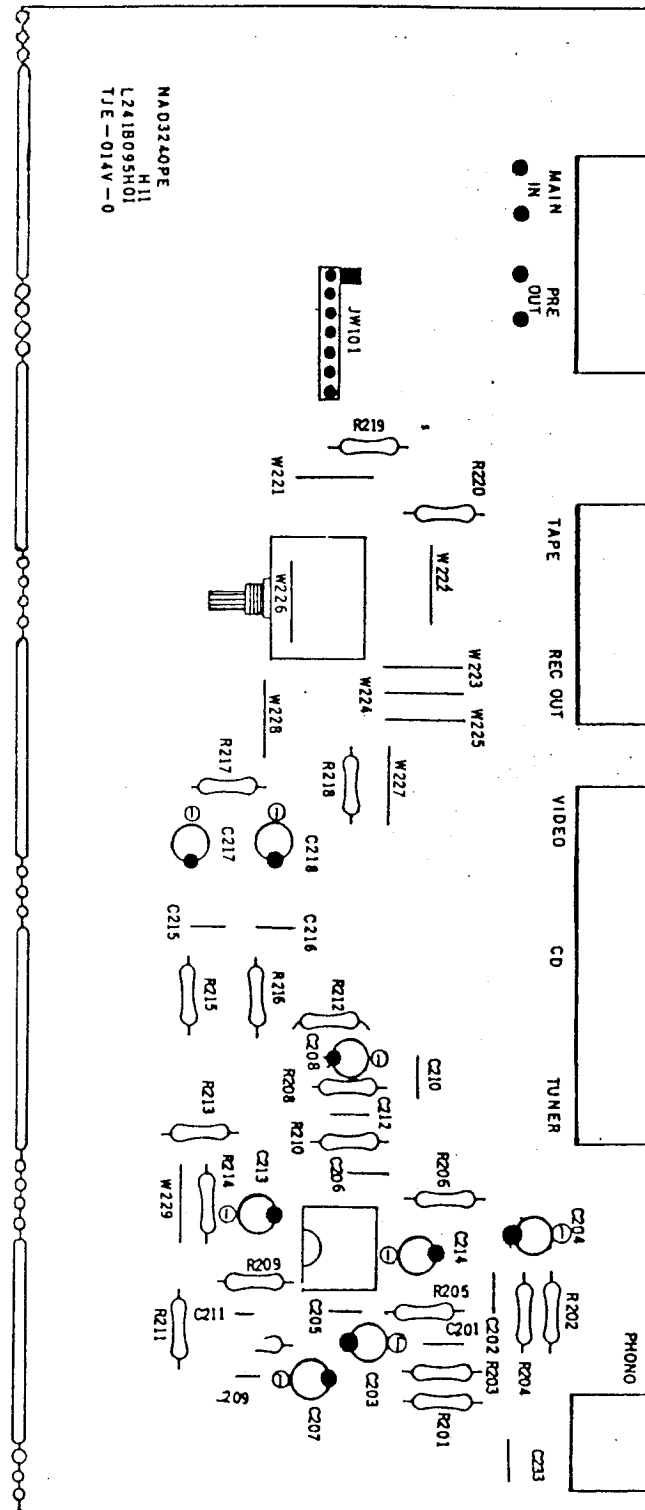


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AMPLIFIER PCB

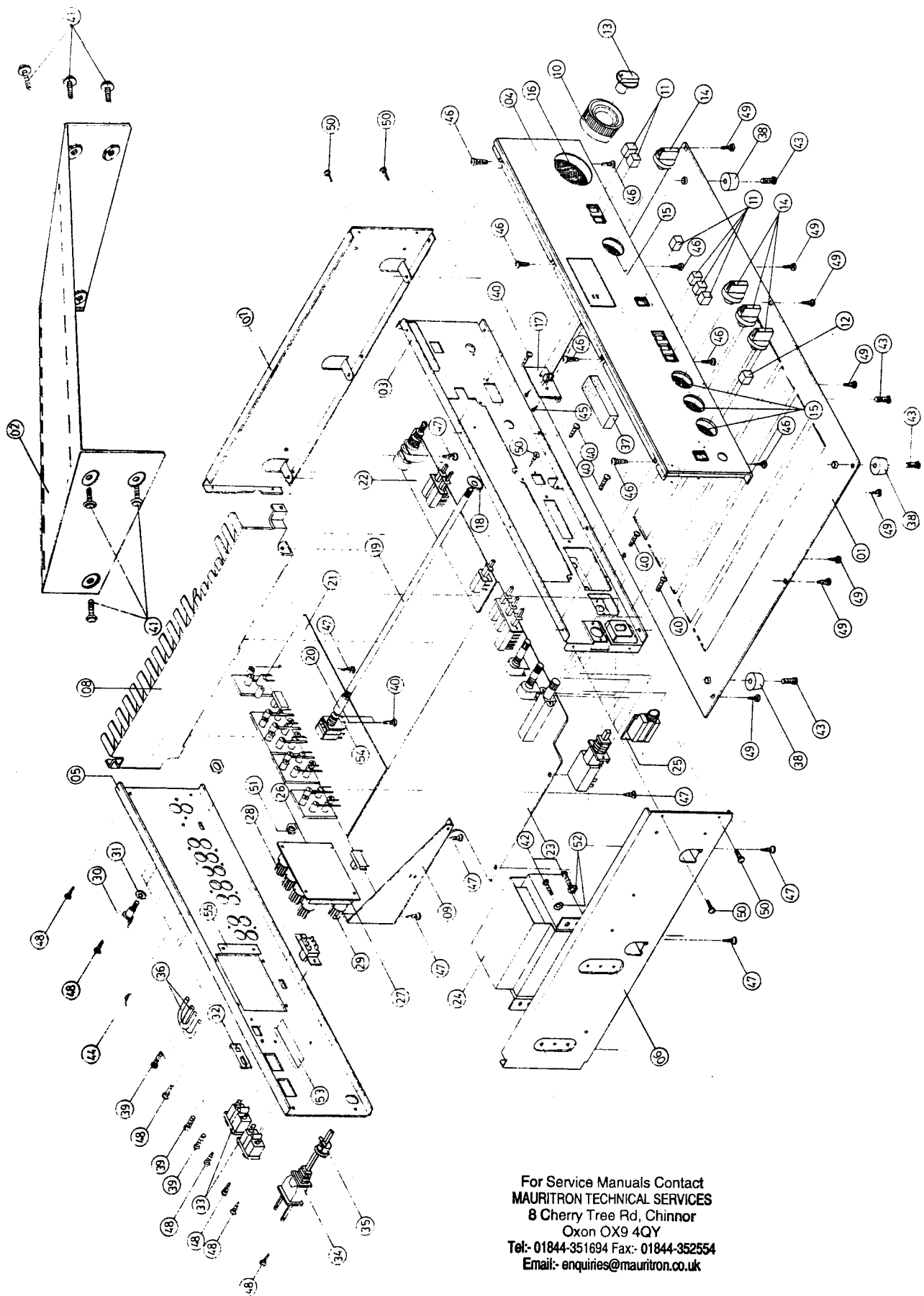


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EXPLODED VIEW



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ITEM	PARTS NO.	NAME	Q'TY	ITEM	PARTS NO.	NAME	Q'TY
01	L580A002H01	COVER BOTTOM	1	29	L704C013H02	HAND-POST (RED)	C3 4
02	L561A010H01	CABINET	1	29	L704C013H02	HAND-POST (RED)	C2 4
03	L582A001H01	CHASSIS, FRONT SUB	1	30	L531D018H01	BINDING POST GROUND	1
04	L702A017H02	PANEL, FRONT	1	31	U683D011H01	WASHER PLANE	1
05	L582A002H13	PANEL, REAR	A1 1	32	L703D027H01	PLATE SWITCH LOCK	1
05	L572A002H13	PANEL, REAR	A2 1	33	L449Y002H02	AC SOCKET	A1 2
05	L582A002H13	PANEL, REAR	A 1	33	L449Y002H02	AC SOCKET	A2 2
05	L582A002H15	PANEL, REAR	B 1	33	L449Y002H02	AC SOCKET	A 2
05	L582A002H14	PANEL, REAR	C1 1	33	L449Y002H02	AC SOCKET	C3 2
05	L582A002H14	PANEL, REAR	C 1	33	L449Y002H02	AC SOCKET	C2 2
05	L582A002H15	PANEL, REAR	B1 1	34	L242Y501H01	AC CORD	A1 1
05	L582A002H13	PANEL, REAR	C3 1	34	L242Y501H01	AC CORD	A2 1
05	L582A002H16	PANEL, REAR	C2 1	34	L242Y501H01	AC CORD	A 1
06	L547B005H01	FRAME (L)	1	34	L242Y501H01	AC CORD	B 1
07	L547B006H01	FRAME (R)	1	34	L242Y501H01	AC CORD	C1 1
08	L565B005H01	HEAR SINK	1	34	L242Y501H01	AC CORD	C 1
09	L541C017H01	BRACKER, PCB SUPPORT	1	34	L242Y501H01	AC CORD	B1 1
10	L704D062H01	KNOB VOLUME	1	34	L242Y501H01	AC CORD	C3 1
11	L704D061H01	KNOB, FUNCTION SELECTOR	6	34	L242Y501H01	AC CORD	C2 1
12	L704D061H02	KNOB POWER	1	35	L540D501H01	CLAMPER	1
13	L704D065H01	KNOB BALANCE	1	36	L291D006H01	BAR LINK	1
14	L704D064H01	KNOB ROTARY	4	37	L552D013H01	CUSHION SPONGE	1
15	L550D037H01	RING, FELT TONECONTROL	4	38	L771D006H01	FOOT RUBBER	4
16	L550D037H02	RING, FELT VOLUMECONTROL	4	39	U650S065H19	SCREW-BM3x6	6
17	L241B092G60	PCB ASS'Y MAIN (LED)	1	40	U650S063H19	SCREW-BM3x6	12
18	L550D036H02	BEARING SHAFT	1	41	L650S063H95	SCREW-PM4x10	6
19	L531D017H01	SHAFT, INPUT SELECTOR	1	42	U650S063H95	SCREW-PM4x10	4
20	L526D022H01	SLEEVE, INPUT SELECTOR SWITCH	1	43	U650S025H31	SCREW-PM4x10	4
21	L241B094G11	PCB ASS'Y CONTROL (PHONO)	1	44	U656S164H23	SCREW-TAP 1-3x6	10
22	L241B094G21	PCB ASS'Y CONTROL (VOL)	1				
23	L241B092G10	PCB ASS'Y MAIN	1				
24	L350Y039H01	TRANSFORMER, MAIN POWER	1				
25	L241B092G50	PCB ASS'Y HEADPHONE	1				
26	L241B092G30	PCB ASS'Y BINDING POSTS	1				
27	L541B018H01	BINDING POSTS LOUDSPEAKER	2				
28	L704C013H01	HAND-POST (BLK)	A1 4				
28	L704C013H01	HAND-POST (BLK)	A2 4				
28	L704C013H01	HAND-POST (BLK)	A 4				
28	L704C013H01	HAND-POST (BLK)	B 4				
28	L704C013H01	HAND-POST (BLK)	C1 4				
28	L704C013H01	HAND-POST (BLK)	C 4				
28	L704C013H01	HAND-POST (BLK)	B1 4				
28	L704C013H01	HAND-POST (BLK)	C3 4				
28	L704C013H01	HAND-POST (BLK)	C2 4				
29	L704C013H02	HAND-POST (RED)	A1 4				
29	L704C013H02	HAND-POST (RED)	A2 4				
29	L704C013H02	HAND-POST (RED)	A 4				
29	L704C013H02	HAND-POST (RED)	B 4				
29	L704C013H02	HAND-POST (RED)	C1 4				
29	L704C013H02	HAND-POST (RED)	C 4				
29	L704C013H02	HAND-POST (RED)	B1 4				

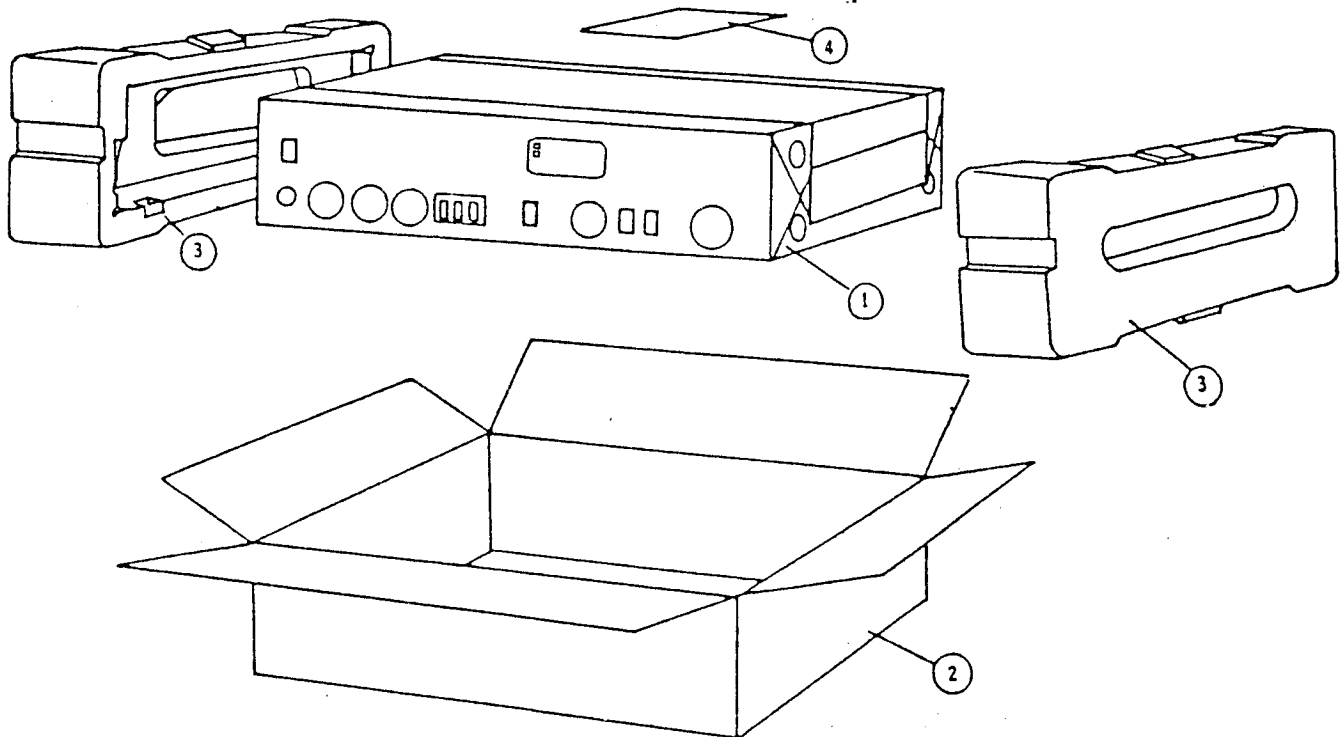
R493, 494, 495, 496

U10S5007H35	Res, Metal,	6.8K	+5%	1W
U10S5007H38	Res, Metal	12K	+5%	1W
U10S5007H01	Res, Metal	10	+5%	1W
U10S5007H17	Res, Metal,	220	+5%	1W
U103Y214H19	Res, Carb,	1K	+5%	1/4W
U103Y214H05	Res, Carb,	68	+5%	1/4W
U103Y214H14	Res, Carb,	330	+5%	1/4W
U103Y214H53	Res, Carb,	680K	+5%	1/4W
U1035017H13	Res, Carb,	330	+5%	1/4W
U103Y214H28	Res, Carb,	5.6K	+5%	1/4W
U103Y214H48	Res, Carb,	270K	+5%	1/4W
U103Y214H26	Res, Carb,	3.9K	+5%	1/4W
U103Y022H26	Res, Carb,	3.9K	+5%	1/4W
U140Y203H35	Cap, Cer,	100pF	+5%	50WV
U182Y322H82	Cap, El,	3.3uF	+75-10%	50V
U140Y203H27	Cap, Cer,	47pF	+5%	50WV
U182Y322H13	Cap, El,	47uF	+50-10%	10V
U172Y306H05	Cap, Poly,	2200pF	+5%	50WV
U172Y306H12	Cap, Poly	8200pF	+5%	50WV
U182Y322H38	Cap, El,	100uF	+50-10%	25V
U172Y306H04	Cap, Poly,	1800pF	+5%	50WV
U182Y322H21	Cap, El,	22uF	+50-10%	16V
U1725002H15	Cap, Poly,	0.22uF	+5%	50V
U1725002H14	Cap, Cer,	0.1uF	+10%	25WV
U172Y306H25	Cap, Poly,	0.15uF	+5%	50WV
U1825333H40	Cap, Poly,	0.1uF	+5%	50WV
U140Y203H27	Cap, El,	1uF	+75-10%	50V
U182Y322H34	Cap, Cer,	47pF	+5%	50WV
U182Y322H38	Cap, El,	10uF	+50-10%	25V
U1825322H38	Cap, El,	100uF	+50-10%	25V
U1825322H38	Cap, El,	0.68uF	+75-10%	50V
U1725002H13	Cap, Poly,	0.1uF	+5%	50WV
U140Y203H35	Cap, Cer,	100pF	+5%	50WV
U172Y306H26	Cap, Poly,	0.12uF	+5%	50WV
U172Y306H16	Cap, Poly,	0.018uF	+5%	50WV
U182Y322H63	Cap, El,	4.7uF	+75-10%	50V
U140Y203H35	Cap, Cer,	100pF	+5%	50WV
U1825333H40	Cap, El,	1uF	+75-10%	50V
U172Y306H02	Cap, Poly,	1200pF	+5%	50WV
U140Y306H10	Cap, Cer,	880pF	+10%	50WV
U182Y322H13	Cap, El,	47uF	+50-10%	10V
U182Y322H23	Cap, El,	22uF	+50-10%	16V
U1825022H15	Cap, El,	220uF	+50-10%	10V
U140Y203H19	Cap, Cer,	22pF	+5%	50WV
U182Y322H34	Cap, El,	10uF	+50-10%	25V
U140Y203H15	Cap, Cer,	15pF	+5%	50WV
U172Y306H25	Cap, Poly,	0.1uF	+5%	50WV
U1825022H88	Cap, El,	10uF	+50-10%	100V
U140Y203H39	Cap, Cer,	150pF	+5%	50WV
U140Y203H35	Cap, Cer,	10pF	+5%	50WV
U140Y201H25	Cap, Cer,	0.1uF	+10%	25WV
U140S021H71	Cap, Cer,	0.1uF	+80-20%	50WV
U140Y306H39	Cap, Cer,	0.022uF	+80-20%	50WV
U160S016H01	Cap, El,	6800uF	+50-10%	50V
U140Y306H45	Cap, Cer,	0.047uF	+80-20%	50WV

C509, 510	L180Y038H02	Cap, El,	8800uF	+50-10%	80V	SW501	L432Y035H01	SW-POWER	A1
C511, 512	L140Y306H45	Cap, Cer,	0.047uF	+80-10%	50V	SW501	L432Y035H01	SW-POWER	A2
C513, 514	U182S022H51	Cap, El,	330uF	+50-10%	35V	SW501	L432Y034H01	SW-POWER	A
C515, 516, 517, 518	L182Y322H37	Cap, El,	47uF	+50-10%	25V	SW501	L432Y034H01	SW-POWER	B
C519	L182Y322H67	Cap, El,	47uF	+50-10%	50V	SW501	L432Y034H01	SW-POWER	C1
C520	L182Y322H63	Cap, El,	4.7uF	+75-10%	50V	SW501	L432Y034H01	SW-POWER	C
C521	U140Y007H07	Cap, Cer,	0.0047uF	+10%	400V	SW501	L432Y034H01	SW-POWER	B1
Q301, 302	L2600036H01	TR	25K363(GR)			SW501	L432Y034H01	SW-POWER	C3
Q401, 402, 403, 404, 411, 412, 415	L2600058H01	TR	25C2240(GR)			SW501	L432Y034H01	SW-POWER	C2
Q416, 439, 440		TR	25A970(GR)			PT1	L350Y083H01	TRANS-POWER	A1
Q405, 406, 407, 408, 409, 410, 413	L2600057H01	TR	25A970(GR)			PT1	L350Y087H01	TRANS-POWER	A2
Q414, 441, 442		TR	25D669A(C)			PT1	L350Y086H01	TRANS-POWER	A
Q417, 418, 423, 424, 437, 438	L2600024H05	TR	25C3423(Y)			PT1	L350Y085H01	TRANS-POWER	B
Q419, 420	L2600060H01	TR	25A1360(Y)			PT1	L350Y086H01	TRANS-POWER	C1
Q421, 422	L2600059H01	TR	25A1360(Y)			PT1	L350Y088H01	TRANS-POWER	B1
Q425, 426, 435, 436	L2600021H05	TR	25B649A(C)			PT1	L350Y088H01	TRANS-POWER	C3
Q427, 428	L2600064H02	TR	25D1047(E)			PT1	L350Y085H01	TRANS-POWER	C2
Q429, 430	L2600063H03	TR	25B817(E)			SW	L431Y013H01	SW-SLIDE	A1
Q431, 432	L2600061H03	TR	25B826			SW	L431Y013H01	SW-SLIDE	A2
Q433, 434	L2600062H03	TR	25D1062			SW	L431Y016H01	SW-SLIDE	A
Q501	U2605061H03	TR	25C1815(GR)			SW	L431Y013H01	SW-SLIDE	B
Q502	L2600020H02	TR	25A1015(GR)			SW	L431Y013H01	SW-SLIDE	C1
D301, 302, 401, 402, 403, 404, 415	U2640037H01	DIODE	IN4148			SW	L431Y013H01	SW-SLIDE	C
D405, 406	L2640003H53	DIODE-ZENER	U2-158L			SW	L431Y013H01	SW-SLIDE	B1
D407, 408, 409, 410	L2640003H16	DIODE-ZENER	U2-3.9B			F503/F504	U283S017H17	FUSE	C3
D411, 412, 413, 414	L2640003H20	DIODE-ZENER	U2-4.7B			F503/F504	U283S017H17	FUSE	C2
D417, 518, 419, 420	U2645010H01	DIODE	1SS81			F503/F504	U283S022H28	FUSE	A1
D421, 422, 423, 424	U2640022H01	DIODE	GF830(B)			F503/F504	U283S022H28	FUSE	A
D431, 432, 433, 434	L2640003H36	DIODE-ZENER	U2-8.2B(W)			F503/F504	U283S022H28	FUSE	B
D501	U2645003H01	DIODE	10E1			F503/F504	U283S022H28	FUSE	C1
D502, 503	U2640003H63	DIODE-ZENER	U2-20B(W)			F503/F504	U283S022H28	FUSE	C
B0501	L2640018H01	LED	PBL403			F503/F504	U283S022H28	FUSE	B1
B0502, 503	L2640017H01	LED	PB153M			F503/F504	U283S022H28	FUSE	C3
LED	L268Y026H01	LED	SE-9421D (GRN)			F503/F504	U283S022H28	FUSE	C2
LED	L268Y017H01	LED	SE-9431D (YEL)			F505/F506	U283S017H10	FUSE	A1
IC201	L361Y020H01	IC	NJM2043(D)			F505/F506	U283S017H10	FUSE	A2
IC301	L2620020H01	IC	NJM2043(D)			F505/F506	U283S017H10	FUSE	A
L401, 402	L361Y023H01	COIL, SPRING				F505/F506	U283S022H17	FUSE	B
BK-1, 2	L422Y001H14	BREAKER	A-40			F505/F506	U283S022H17	FUSE	C1
VR201	L121Y009H01	VR	20XB+50KWN			F505/F506	U283S022H17	FUSE	C
VR301, 302	L121Y010H01	VR, ROTARY	10XC			F505/F506	U283S022H17	FUSE	B1
VR401, 402	L127Y003H07	VR-SEMI	810K			F505/F506	U283S022H17	FUSE	C3
VR403, 404	L127Y003H02	VR	81K			F505/F506	U283S022H17	FUSE	C2
SW	L430Y009H01	SW-SELECT	CU/PHONO/TUNER/AUX			F501/F502	U283S022H17	FUSE	A1
SW	L432Y028H01	SW-PUSH	LOW LEVEL LOUDNESS			F501/F502	U283S017H16	FUSE	A2
SW	L432Y056H01	SW-PUSH	TAPE MONITOR			F501/F502	U283S017H16	FUSE	A
SW401	L432Y045H01	SW-PUSH				F501/F502	U283S022H22	FUSE	B
SW402	L431Y014H01	SW-SLIDE				F501/F502	U283S022H22	FUSE	C1
J	L430Y010H01	SW-ROTARY				F501/F502	U283S022H22	FUSE	C
J	L440Y005H01	JACK-RCA	PHONO			F501/F502	U283S022H22	FUSE	B1
J	L440Y006H01	JACK-RCA	TAPER/REC OUT PRE OUT/MAIN IN			F501/F502	U283S017H16	FUSE	C3
J	L440Y008H01	JACK-RCA	TUNER/CD/AUX			F501/F502	U283S022H22	FUSE	C2
J	L451Y017H02	JACK	HEAD PHONO			F501/F502	U283S022H22	FUSE	A2
J	L457D501H01	FUSE-HOLDER				CONNECTOR	L230Y003H01	CONNECTOR	B
J	U565D502H01	RADIATOR				CONNECTOR	L230Y003H01	CONNECTOR	C1
J	L255Y001H06	PTC				CONNECTOR	L230Y003H01	CONNECTOR	C
J	U685S223H01	PTN				CONNECTOR	L230Y003H01	CONNECTOR	B1

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

PACKING DIAGRAM



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ITEM	NUMBER	NAME	Q'TY
1	L831D002H01	Bag-Poly	1
2	L800D003H04	Carton Individual	1
3	L813A006H01	Styro Packing	2
4	L871B502H85	Instruction	1