

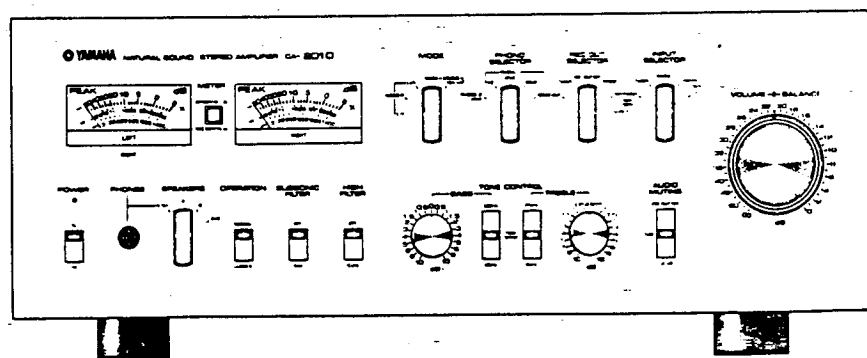
SERVICE MANUAL

THE QUALITY OF
THIS MANUAL IS
THE BEST THAT
IS AVAILABLE

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

CA-2010

INTEGRATED AMPLIFIER



SINCE 1887



YAMAHA

NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN

CONTENTS

SPECIFICATIONS	2
EXTERNAL VIEW	
FRONT PANEL	4
REAR PANEL (GENERAL MODEL)	4
REAR PANEL (EUROPEAN MODEL)	4
INTERNAL VIEW	
TOP VIEW	6
BOTTOM VIEW	6
PARTIAL DISASSEMBLY	7
ADJUSTMENT	11
PRINTED CIRCUIT BOARD	
FUNCTION CIRCUIT BOARD	13
TONE CONTROL CIRCUIT BOARD	15
METER CIRCUIT BOARD	17
COUPLER CIRCUIT BOARD	18
LAMP CIRCUIT BOARD	18
ELECTROLYTIC CAPACITOR CIRCUIT BOARD	18
MAIN CIRCUIT BOARD	19
POWER SUPPLY CIRCUIT BOARD	20
BLOCK DIAGRAM	21
PARTIAL CHANGES MADE ACCORDING TO DESTINATION	22
OVERALL SCHEMATIC DIAGRAM	23
WIRING	25

SPECIFICATIONS

INPUT SENSITIVITY / IMPEADANCE / MAX.INPUT CAP

INPUT TERMINAL	SENSITIVITY	IMPEADANCE	MAXIMAM INPUT CAPACITY
PHONO 1	2mV	47,68,100K Ω	310mV (1KHz, 0.02%)
PHONO 2	2mV	47K Ω	310mV (1KHz, 0.02%)
MC	50 μ V	10 Ω	7.5mV (1KHz, 0.02%)
TUNER,AUX	120mV	50K Ω	20V (1KHz, 0.02%)
MAIN IN	1V	50K Ω	

OUTPUT LEVEL / IMPEADANCE / MAX OUTPUT LEVEL

OUTPUT TERMINAL	OUTPUT LEVEL	IMPEADANCE	MAXUMUM OUTPUT LEVEL
REC OUT	120mV	600 Ω	18.6V (1KHz, 0.02%)
PRE OUT	1V	500 Ω	7V (1KHz, 0.02%)

FREQUENCY RESPONCE

	FREQUENCY	RATING
PHONO 1,2, MC	30 ~ 15KHz	0 $\pm$ 0.2dB (Deviation from RIAA)
TUNER $\rightarrow$ PRE OUT	5 ~ 100KHz	0 $\pm$ ₁ ⁰ dB
TUNER $\rightarrow$ SP OUT	5 ~ 50KHz	0 $\pm$ ₁ ⁰ dB (8 Ω road)

TONE CONTROL

	TURN OVER FREQUENCY	RATING
BASS	125Hz	20Hz $\pm$ 10dB
TARBLE	500Hz	
	8KHz	20KHz $\pm$ 10dB
	2.5KHz	

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

FILTER

	fc	RATING
SUBBSNIC	fc=15Hz	-12dB / OCT
HIGH	fc=10KHz	-12dB / OCT

NOISE LEVEL, S/N

	RATING
PHONO 1,2	82dB (IHF A NETWORK)
MC	71dB (IHF A NETWORK) INPUT 50 Ω short
	68dB (IHF A NETWORK) INPUT 0 Ω short
TUNER,AUX,TAPE	100dB (IHF A NETWORK)
MAIN	118dB (IHF A NETWORK)
RESIDUAL NOISE	70 μ V

DISTORTION

	CONDITONS	RATING
PHONO 1.2	REC OUT 5V, 20 ~ 20KHz	Less than 0.003%
MC	REC OUT 3V, 20 ~ 20KHz	Less than 0.03%
TUNER, AUX	PRE OUT 3V, 20 ~ 20KHz	Less than 0.005%
MAIN IN	SP OUT 60W / 8 Ω 20~20KHz (CLASS B)	Less than 0.01%
	SP OUT 15W / 8 Ω 20~20KHz (CLASS A)	Less than 0.005%
TUNER→SP OUT NDCR	SP OUT 60W / 8 Ω 20~20KHz (CLASS B)	Less than 0.01%
PHONO→SP OUT		
DISTORTION- POWER	VOL-20 dB, 0.1W~120W/8 Ω	0.1%
RANGE	VOL-40 dB, 4mW~120W/8 Ω	0.1%

OUTPUT

	CONDITIIS	RATING
AUX IN→SP OUT	8 Ω , CLASS B, 120W+120W, 20 ~ 20KHz	0.03%
	130W+130W, 1KHz	0.03%
	4 Ω , CLASS B, 140W+140W, 20 ~ 20KHz	0.03%
	180W+180W, 1KHz	0.03%
	8 Ω CLASS A, 30W+30W, 20 ~ 20KHz	0.03%

POWER BANDWIDTH

	FREQUENCY	RATING
8 Ω , CLASS B	10Hz ~ 50KHz	0.03%
8 Ω , CLASS A	10Hz ~ 70KHz	0.03%

DAMPING FACTOR

	DAMPING FACTOR
1KHz, 8 Ω	45

LEVEL METER

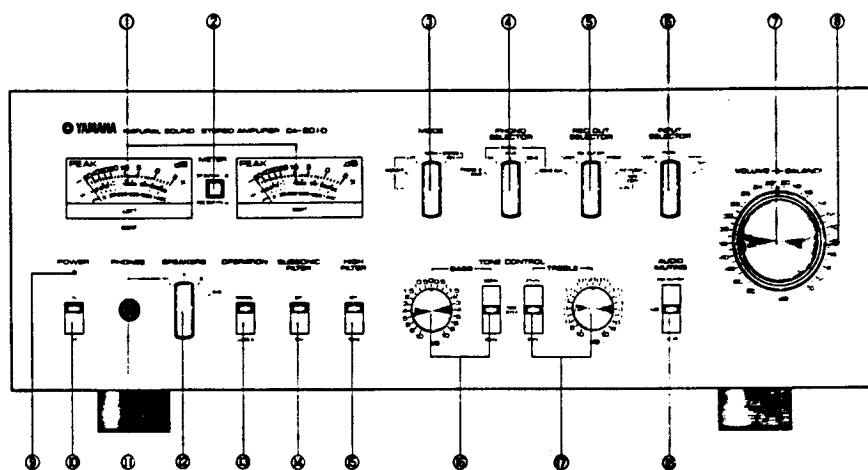
INDICATION RANGE	-50dB~+5dB (1mW~316W)
RESPONCE TIME	100 μ S
DECAY TIME	0.95 sec

OTHERS

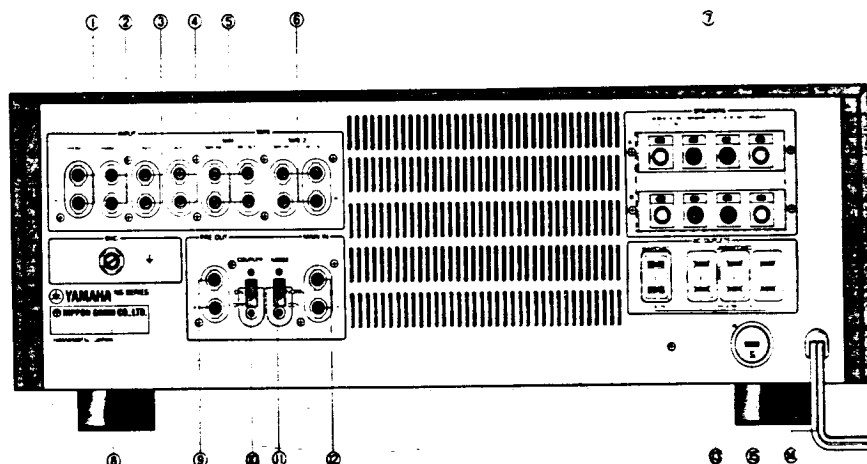
DIMENSIONS	461 x 360 x 170 mm (18-1/4" x 14-1/4" x 6-3/4")
WEIGHT	21 kg(46.2 lbs)
POWER SOURCE	AC 110-240V, 50 / 60Hz
POWER CONSUMPTION	U.S. & CANADIAN MODELS : 600W, 700VA EUROPIAN MODEL: 900W

EXTERNAL VIEW

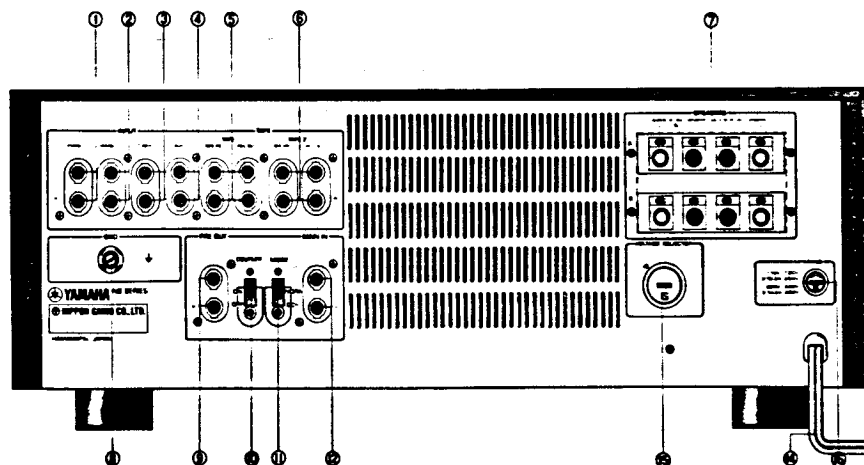
FRONT PANEL



REAR PANEL (GENERAL MODEL)



REAR PANEL (EUROPEAN MODEL)



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

FRONT PANEL

- ① PEAK level meters
- ② METER switch
- ③ MODE selector
- ④ PHONE selector
- ⑤ REC OUT selector
- ⑥ INPUT selector
- ⑦ VOLUME control
- ⑧ BALANCE control
- ⑨ POWER indicator
- ⑩ POWER switch
- ⑪ HEADPHONE jack
- ⑫ SPEAKERS selector

- ⑬ a class/b class OPERATION switch
- ⑭ SUBSONIC FILTER switch
- ⑮ HIGH FILTER switch
- ⑯ BASS tone control & turnover switch
- ⑰ TREBLE tone control & turnover switch
- ⑱ AUDIO MUTING switch

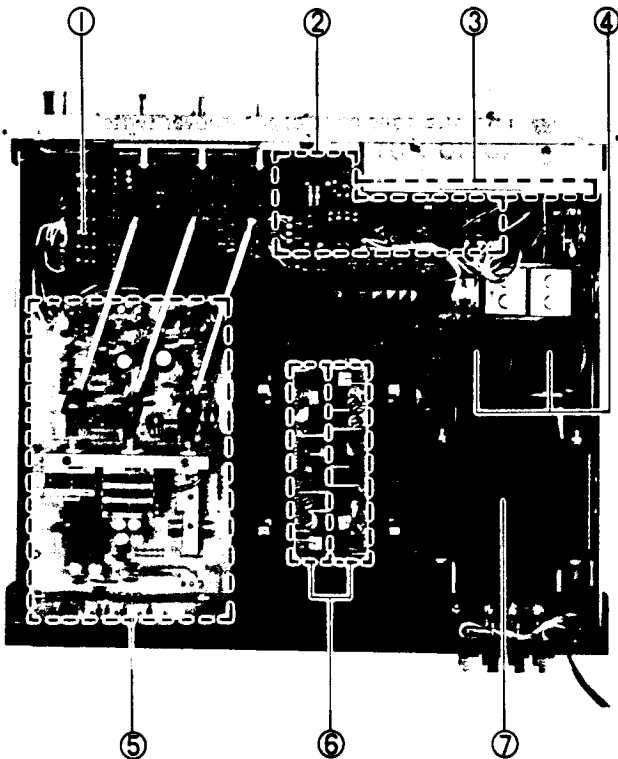
REAR PANEL

- ① PHONE-1 input jacks
- ② PHONE-2 input jacks
- ③ TUNER input jacks
- ④ AUX input jacks
- ⑤ TAPE 1 PB/REC OUT jacks
- ⑥ TAPE 2 PB/REC OUT jacks
- ⑦ SPEAKER terminals
- ⑧ GROUND terminal
- ⑨ PRE OUT jacks
- ⑩ COUPLER switch
- ⑪ MODE (dc/normal) switch
- ⑫ MAIN IN jacks

- ⑬ AC OUTLETS
- ⑭ AC cord
- ⑮ VOLTAGE selector
- ⑯ primary fuse

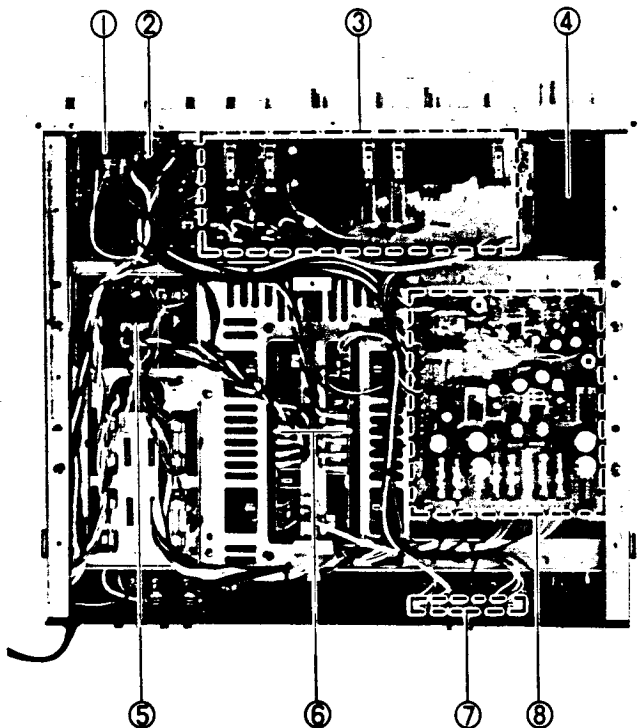
INTERNAL VIEW

TOP VIEW



- ① TONE CONTROL CIRCUIT BOARD
NA06827
NA06826: U.S. & Canadian Models
- ② METER AMP CIRCUIT BOARD (NA06836)
- ③ LAMP CIRCUIT BOARD (NA 06838)
- ④ ELECTROLYTIC CAPACITOR CIRCUIT BOARD
(NA06837)
- ⑤ FUNCTION CIRCUIT BOARD
NA06833
NA06832: U.S. & Canadian Models
- ⑥ MAIN CIRCUIT BOARD
NA06844
NA06843: U.S. & Canadian Models
- ⑦ POWER TRANSFORMER

BOTTOM VIEW



- ① HEADPHONE JACK
- ② SPEAKER SELECTOR SWITCH
- ③ TONE CONTROL CIRCUIT BOARD
- ④ VOLUME CONTROL
- ⑤ ELECTROLYTIC CAPACITOR CIRCUIT BOARD
- ⑥ MAIN CIRCUIT BOARD
- ⑦ COUPLER CIRCUIT BOARD
- ⑧ POWER CIRCUIT BOARD
NA06878: General & Australian Models
NA06789: U.S. & Canadian Models
NA06880: European & British Models

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

PARTIAL DISASSEMBLY

1. CABINET REMOVAL

- Remove screws 1 and 2 on both sides as shown in Photo 1.
- Lift cabinet upward and remove.

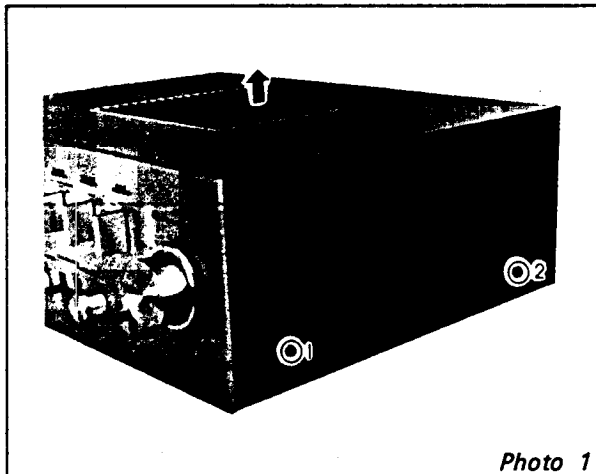


Photo 1

2. REAR PANEL REMOVAL

- Stand unit on side and remove screws 1 ~ 11 shown in Photo 2 and remove rear panel.

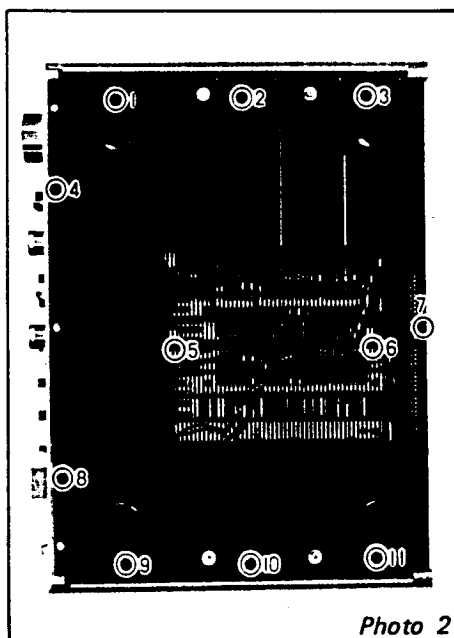


Photo 2

3. FUNCTION CIRCUIT BOARD REMOVAL

- Remove cabinet (refer to step 1)
- Remove screws 1 and 2 shown in Photo 3 and loosen screws 3 ~ 6.
- Slide the shield case toward the front-panel and remove.

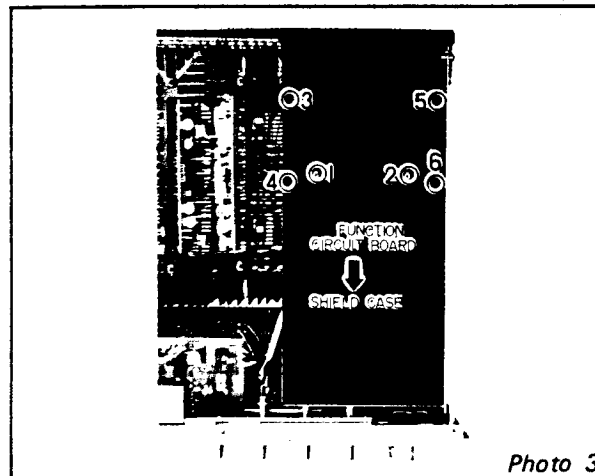


Photo 3

- Slide couplers 1 ~ 3 of the extension shaft in Photo 4 in the direction of the arrow and remove.
- Remove connected leads, then remove screws 4 ~ 9 shown in Photo 4.
- Remove rear panel screws 1 ~ 8 shown in Photo 5, then remove the function circuit board together with the pin jacks.

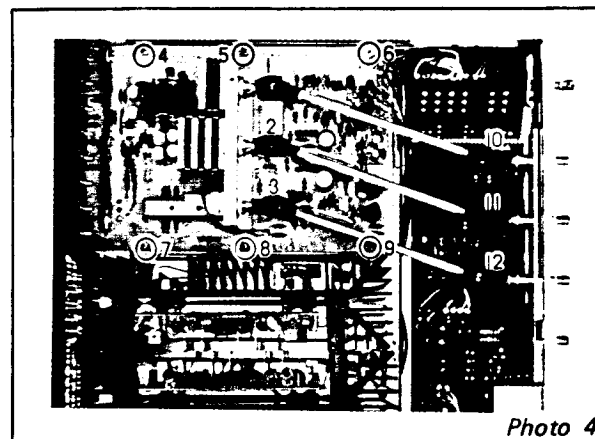


Photo 4

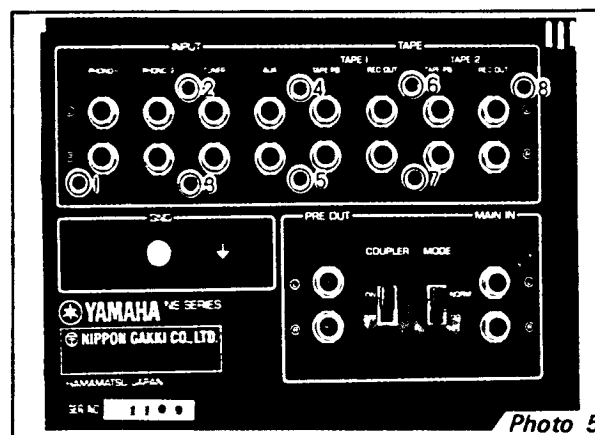


Photo 5

4. MAIN AMP CIRCUIT BOARD REMOVAL

- Remove cabinet (refer to step 1).
- Remove rear panel (refer to step 2).
- Remove screws 1, 2 (for RCH), 3 and 4 (for LCH), then remove lead wires connected from the bottom portion of the chassis to the main Amp circuit board.

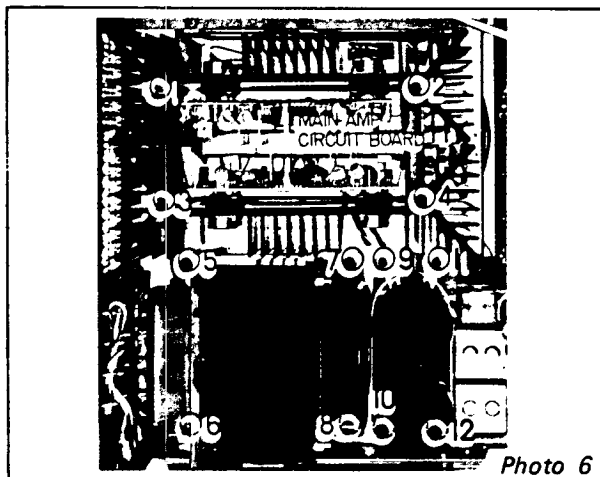


Photo 6

5. POWER TRANSFORMER REMOVAL

- Remove cabinet (refer to step 1).
- Remove the rear panel (refer to step 2).
- Remove lead wire from the bottom of the chassis to the transformer.
- Remove screws 5 ~ 8 and remove power transformer.

6. CHEMICAL CONDENSER CIRCUIT BOARD REMOVAL

- Remove cabinet (refer to step 1).
- Remove the rear panel (refer to step 2)
- Remove the wires leading from the bottom of the chassis to the chemical condenser circuit board.
- Then remove the chemical condenser circuit board by removing screws 9 ~ 12.

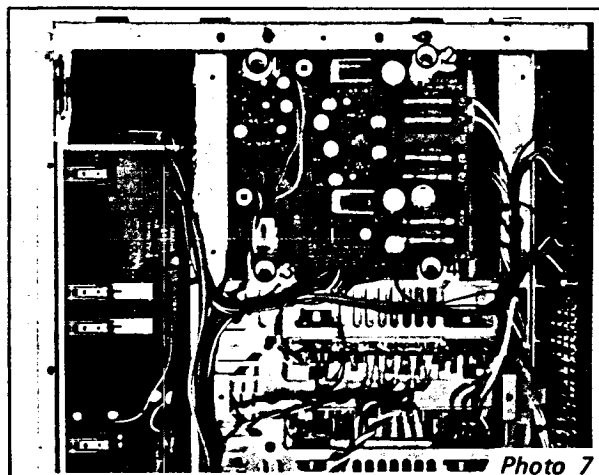


Photo 7

7. POWER CIRCUIT BOARD REMOVAL

- Remove the rear panel (refer to step 1).
- Remove screws 1-4 and the lead wire, then remove the power circuit board.

8. COUPLER CIRCUIT BOARD REMOVAL

- Remove the rear panel (refer to step 2).
- Remove rear panel screws 1 ~ 5, then remove coupler circuit board.

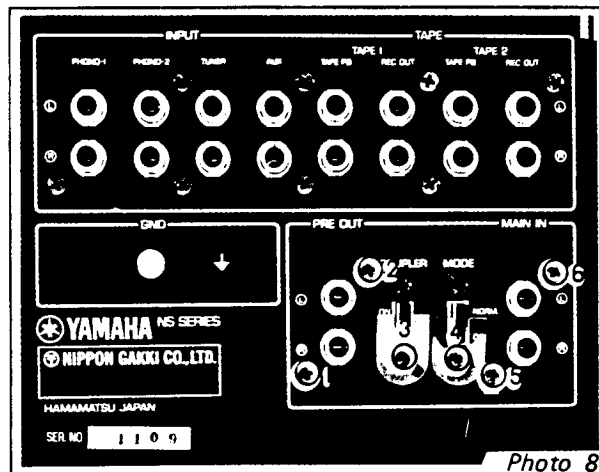


Photo 8

9. FRONT PANEL REMOVAL

- Remove cabinet (refer to step 1).
- Remove rear panel (refer to step 2).
- Remove all knobs on the front panel. Use hexagonal wrench to loosen the nuts on the SPEAKERS, MODE, PHONO SELECTOR, REC OUT SELECTOR, INPUT SELECTOR. Pull and remove TONE CONTROL and VOLUME knobs.
- Remove BALANCE knob from side of chassis after loosening screws 1 ~ 2 shown in Photo 9.

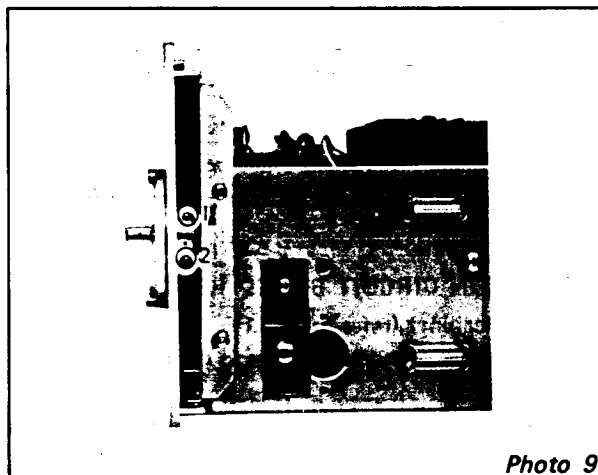


Photo 9

- e. Remove lead wires of the level meter and the power source indicating lamp.

LEADS ARE CONNECTED AS SHOWN IN FIGURE 1.

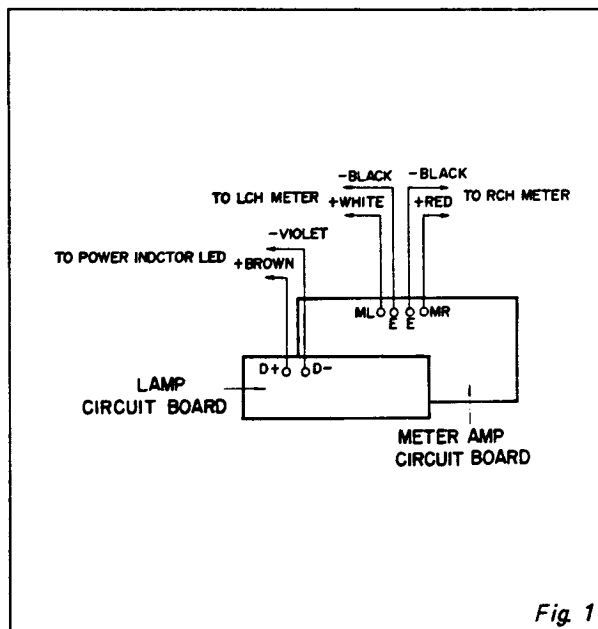


Fig 1

- f. Remove screws 1-3 in Photo 10 and screws 1-3 in Photo 11 and remove the front panel.

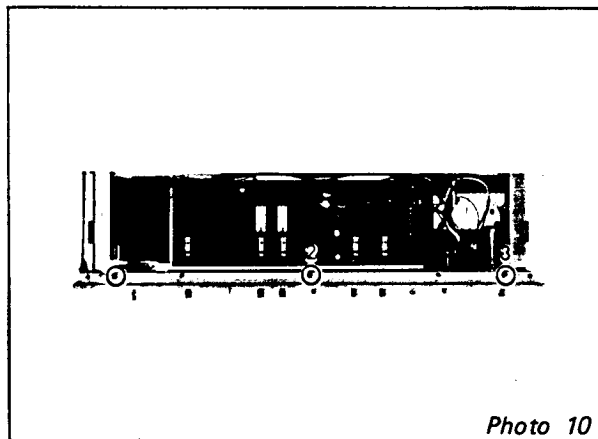


Photo 10

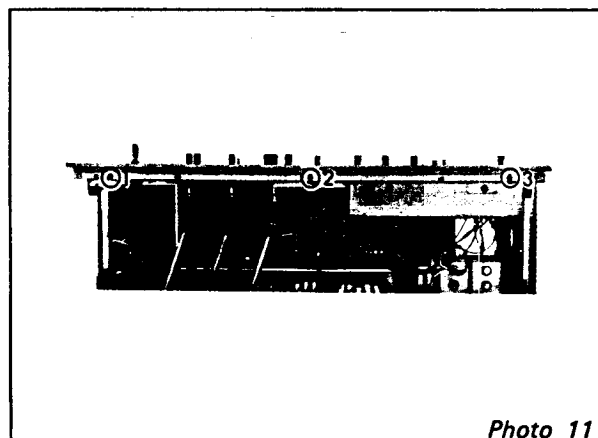


Photo 11

10. LAMP CIRCUIT BOARD

- Remove cabinet (refer to step 1).
- Remove screws 1 and 2 shown in Photo 12 and remove the lamp circuit board with brackets and acrylic illumination plate attached.

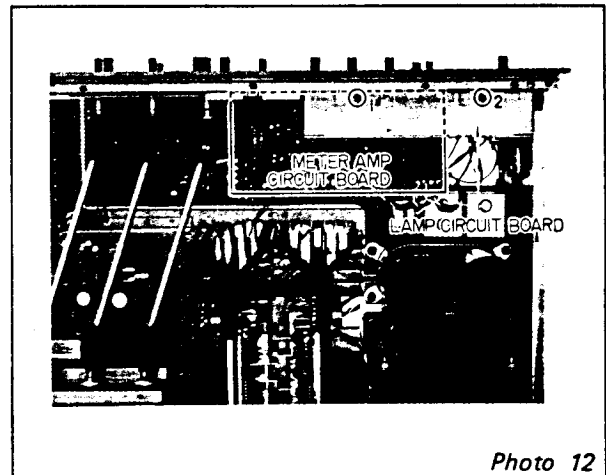


Photo 12

11. METER CIRCUIT BOARD

- Remove the front panel (refer to step 9)
- Slide extension shaft joints 10 ~ 12 toward the function circuit board.
- Remove screws 1 ~ 6 shown in Photo 13 and remove the meter circuit board together with brackets.
- * In this case, screws 7 ~ 9 for the stopper are removed in advance.

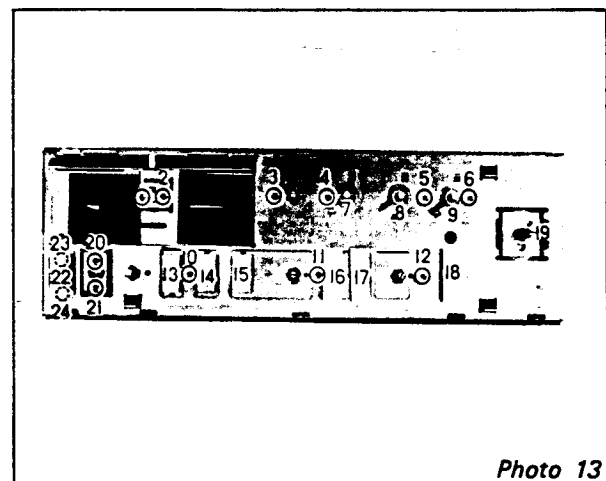


Photo 13

12. TONE CONTROL CIRCUIT BOARD REMOVAL

- Remove the front panel (refer to step 1).
- Remove lead wire connected to the circuit board in advance.

- c. Pull and remove knobs 14 ~ 19 of the lever switch shown in Photo 13.
- d. Remove screws 10 ~ 13 and remove the tone control circuit board.

13. VOLUME CIRCUIT BOARD REMOVAL

- a. Remove the front panel (refer step 9).
- b. Remove the jumper wire of the tone control circuit board.
- c. Remove nut 20 shown in Photo 13 and remove the volume circuit board.

14. HEAD PHONE JACK

- a. Remove the front panel (refer step 9).
- b. Remove screws 20 and 21 and remove the jack.

15. POWER SWITCH REMOVAL

- a. Remove the front panel (refer step 9).
- b. Pull and remove lever knob 23. Then remove screws 24, 25 and remove the power switch.

16. DROPPING THE REAR PANEL

- a. Remove cabinet (refer step 1).
- b. Remove the power source (refer to step 2).
- c. Remove screws 1 ~ 8 shown in Photo 5.
- d. Remove screw 1 and remove screw 2 on both sides. Then rear panel can be dropped to the rear.

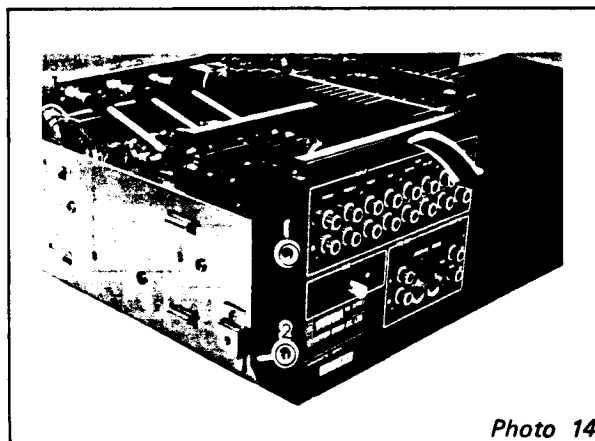


Photo 14

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

ADJUSTMENT

Carry out adjustments on both the "L" and "R" channels.

1. ADJUSTMENT OF THE IDLING CURRENT IN THE MAIN AMPLIFIER

1.1 With Class B operation (OPERATION switch at TP1 and TP2 of the main circuit board and adjust VR-302 so the reading is 25mV.

302 so the reading is 25mV.

(Refer Fig. 1)

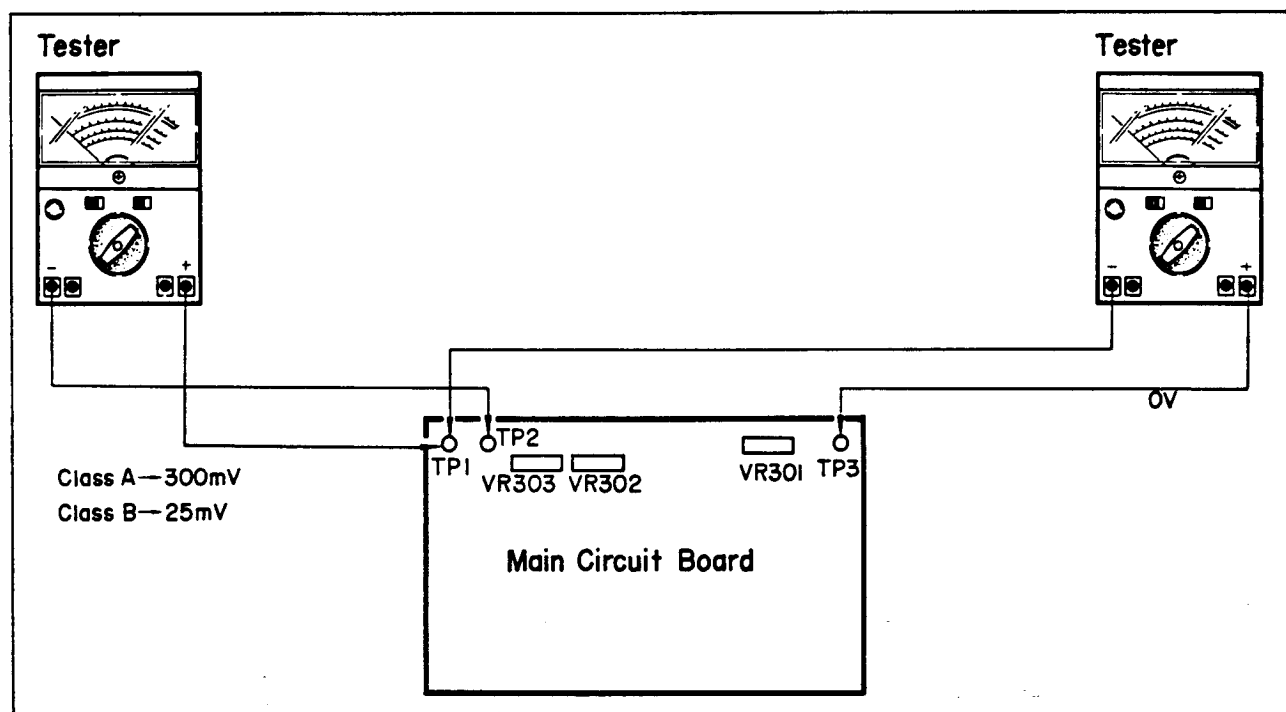
1.2 With Class A operation (OPERATION switch at

CLASS A), connect tester between terminals TP1 and TP2 of the main circuit board and adjust VR-303 so the reading is 300mV.

(Refer Fig. 1)

2. ADJUSTMENT OF THE MID-POINT POTENTIAL OF THE MAIN AMPLIFIER

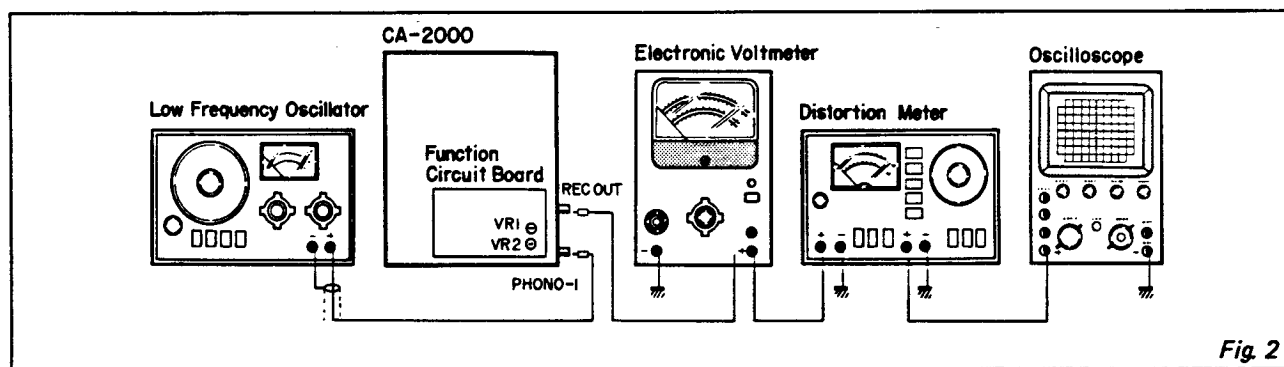
Connect tester between terminals TP1 and TP3 of the main circuit board and adjust VR-301 so the reading is 0V. (Refer Fig. 1)



3. ADJUSTMENT OF DISTORTION IN THE MC AMPLIFIER

Connect a low frequency oscillator to PHONO-1 terminal and apply a 20KHz 30V output signal (signal source impedance 22 ohms).

Adjust VR-101 ("L" ch.) and VR-102 ("R" ch.) on the function circuit board for minimum distortion at the REC OUT terminals of TAPE 1 or TAPE 2. (Refer Fig. 2)

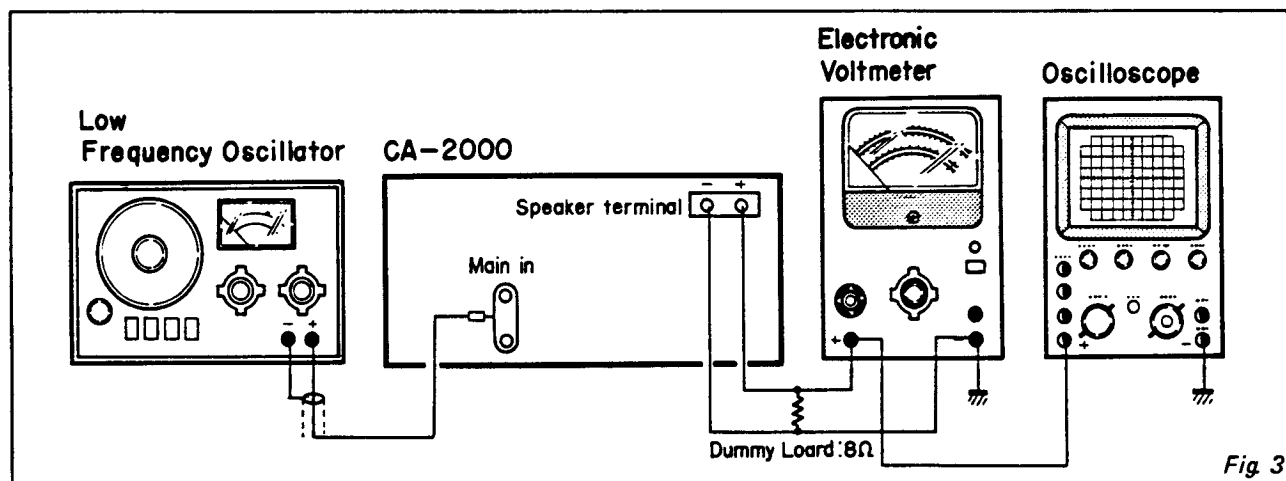


4. ADJUSTMENT OF THE METERS

4.1 Adjust the "Zero Adjustment" screw at the lower part of the meter so the meter indicates "0" under no-signal conditions.

4.2 Connect an 8 ohm (over 150W) dummy resistor

to the speaker output terminal and adjust VR-501 ("L" ch) and VR-502 ("R" ch) of the meter amplifier circuit board until the meter indicates 0dB at an output of 100W (28.28V, 1KHz). (Refer Fig. 3).



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

PHONO 1

PHONO 2

TUNER

AUX

TAPE PB

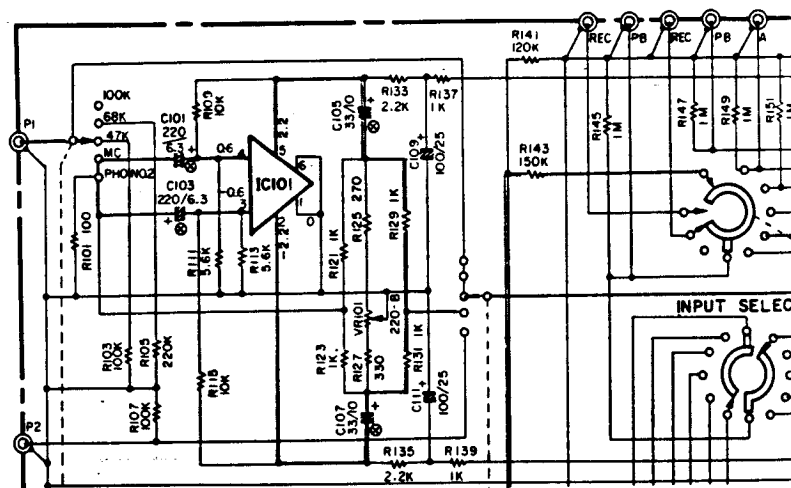
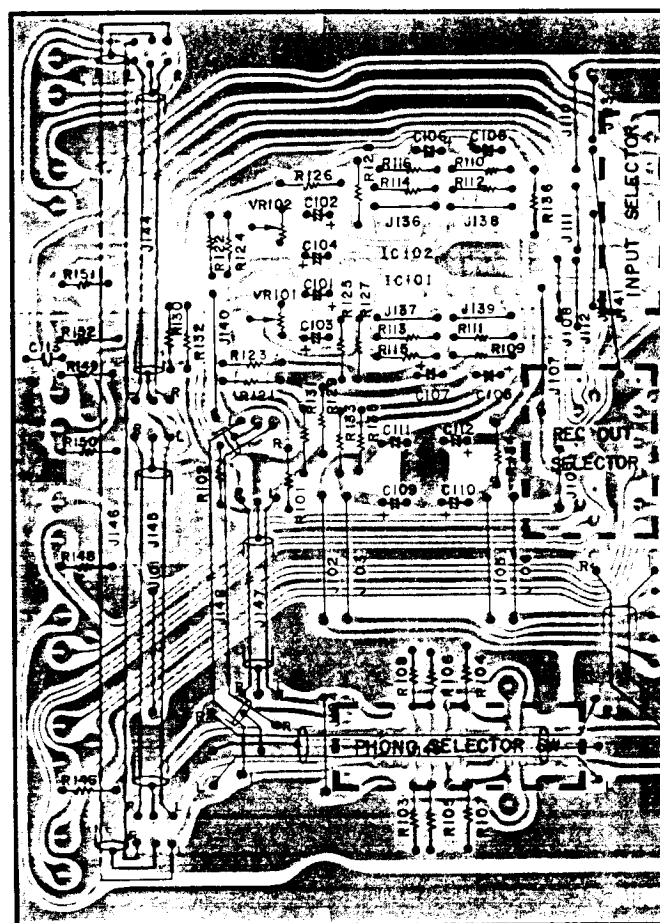
TAPE 1

REC OUT

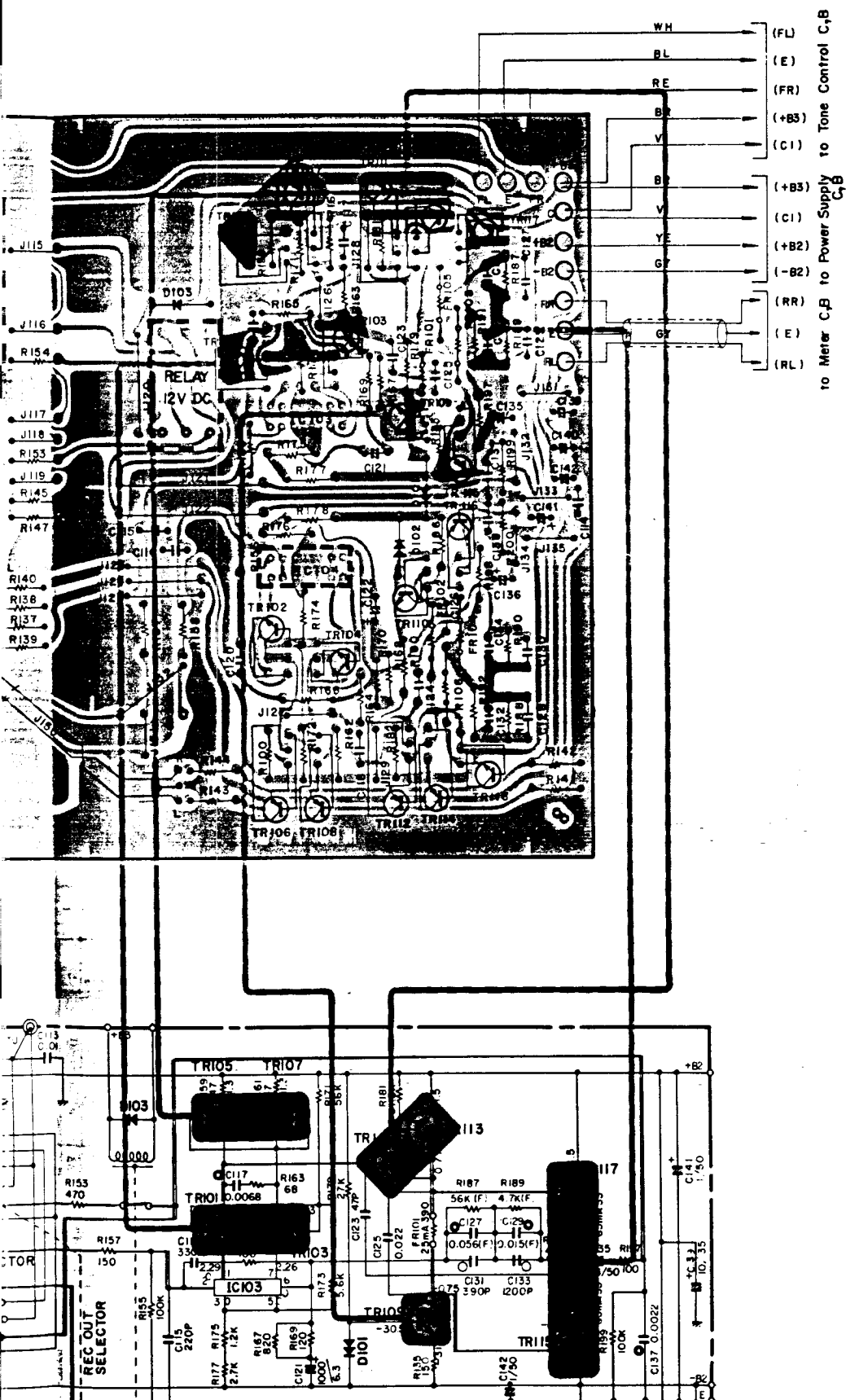
TAPE PB

TAPE 2

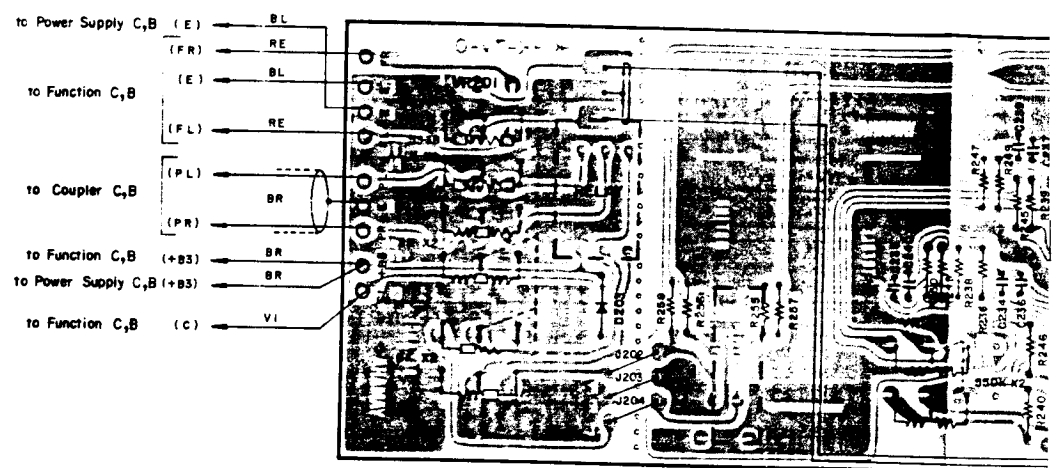
REC OUT



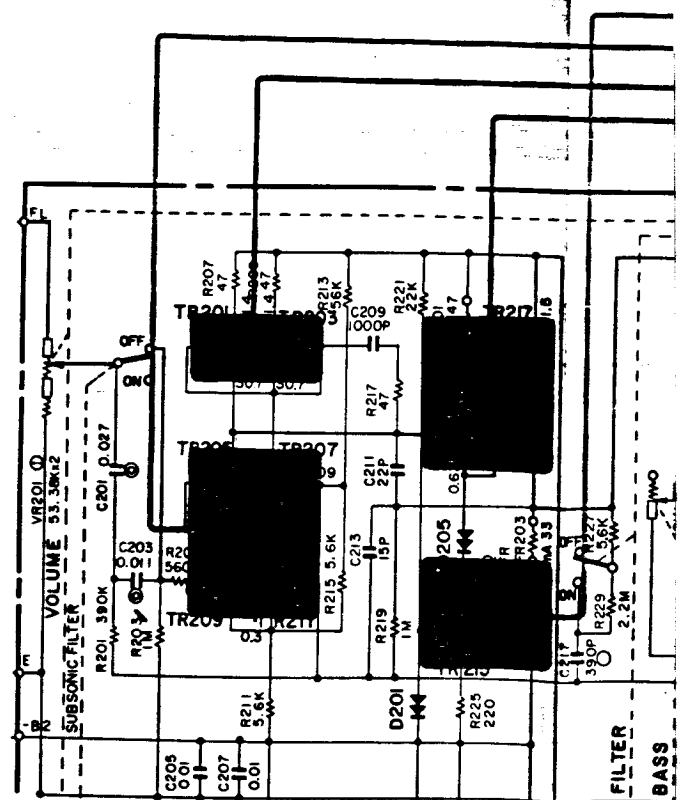
CUI BOARD



TONE CONTROL CIRCUIT BOARD

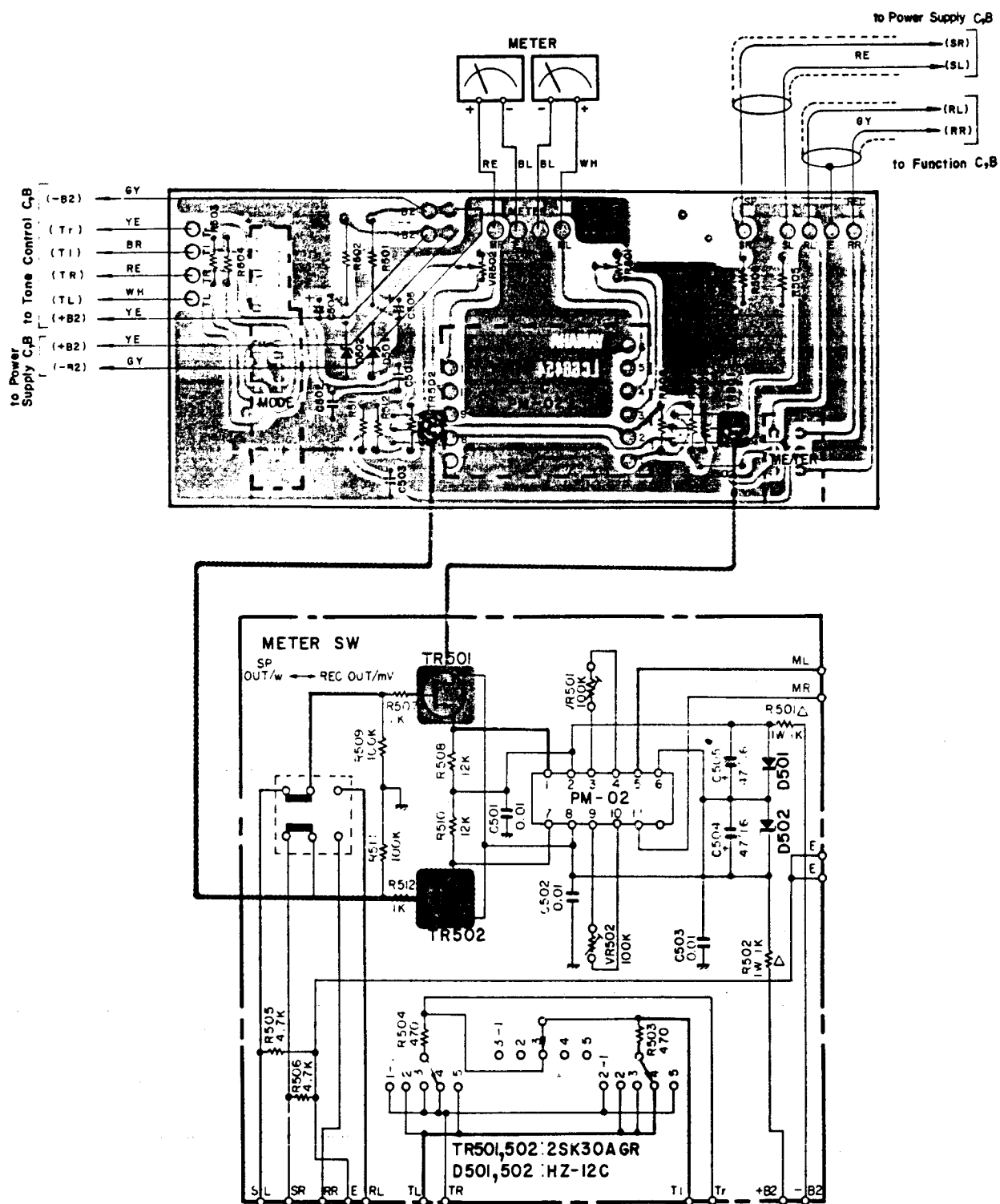


For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel: 01844-351694 Fax: 01844-352554
Email: enquiries@mauritron.co.uk

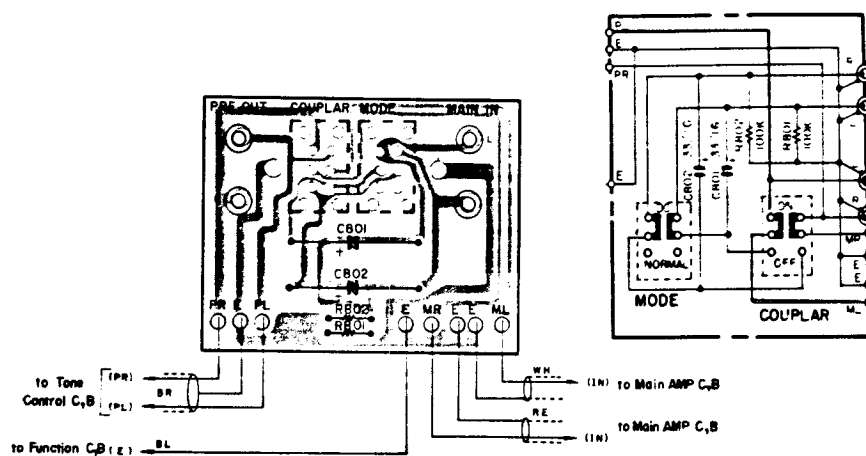




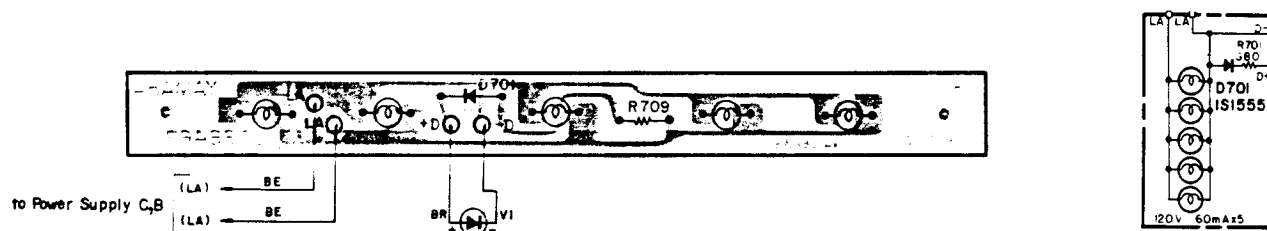
METER CIRCUIT BOARD



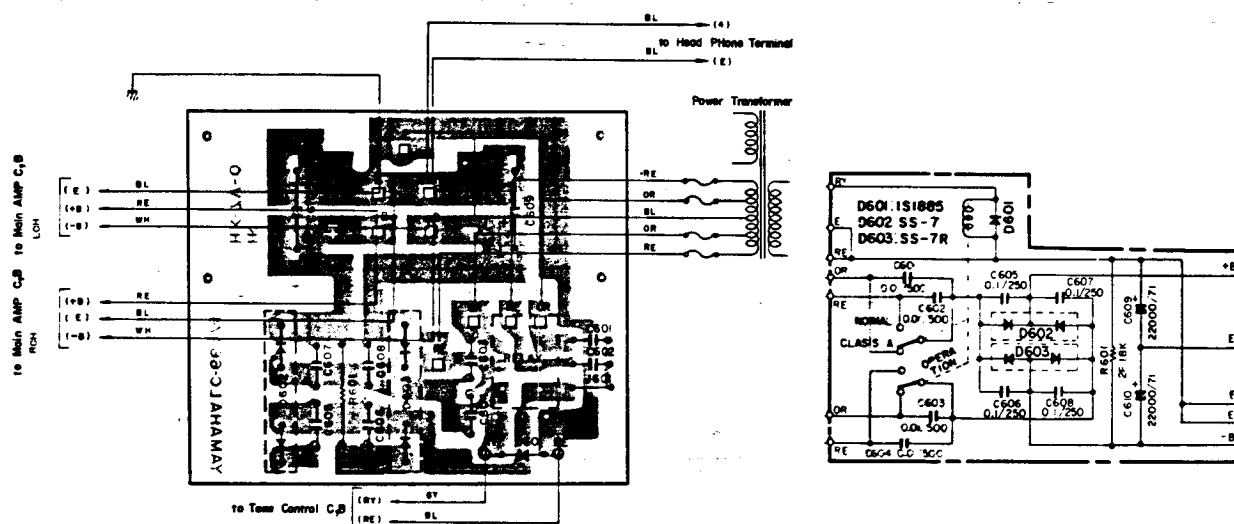
COUPLER CIRCUIT BOARD



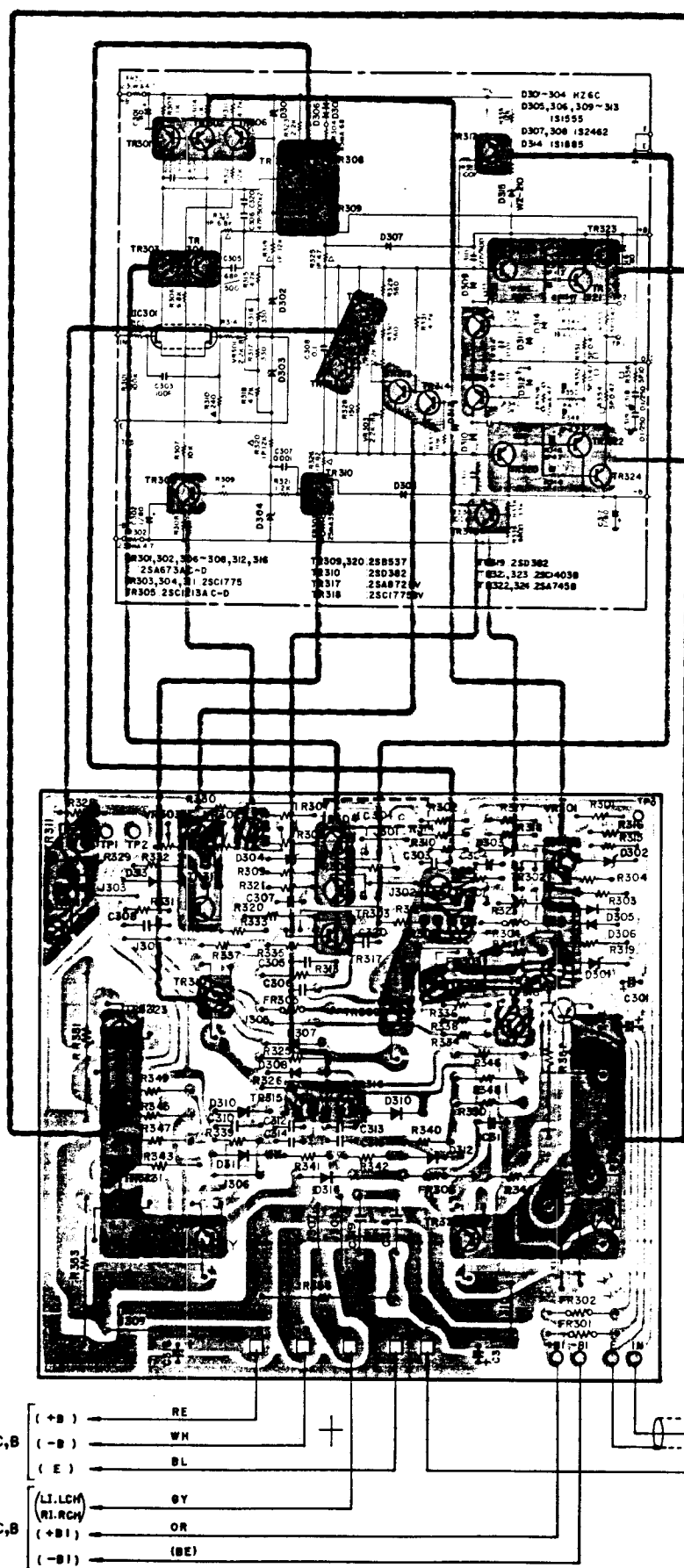
LAMP CIRCUIT BOARD



ELECTROLYTIC CAPACITOR CIRCUIT BOARD

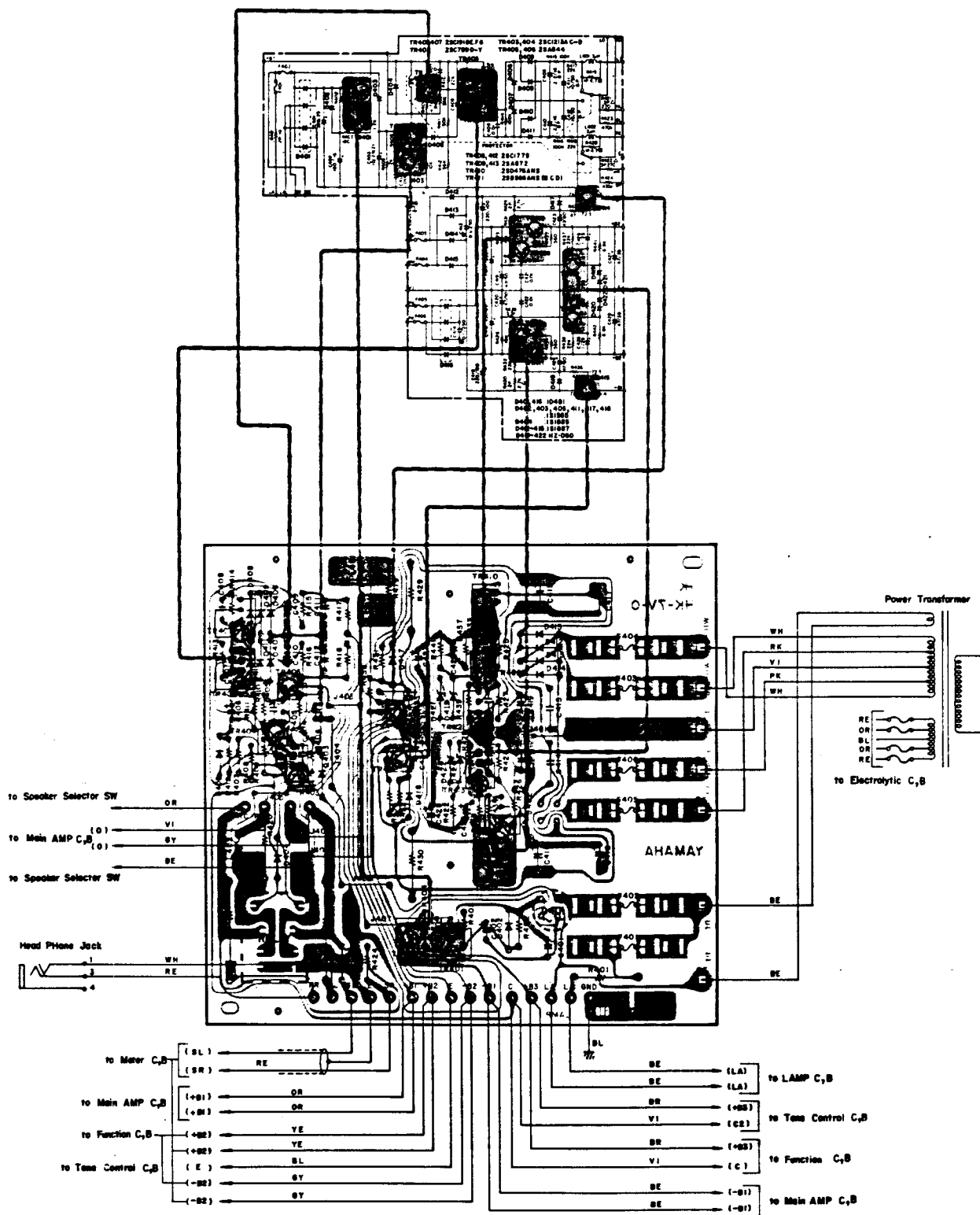


MAIN CIRCUIT BOARD

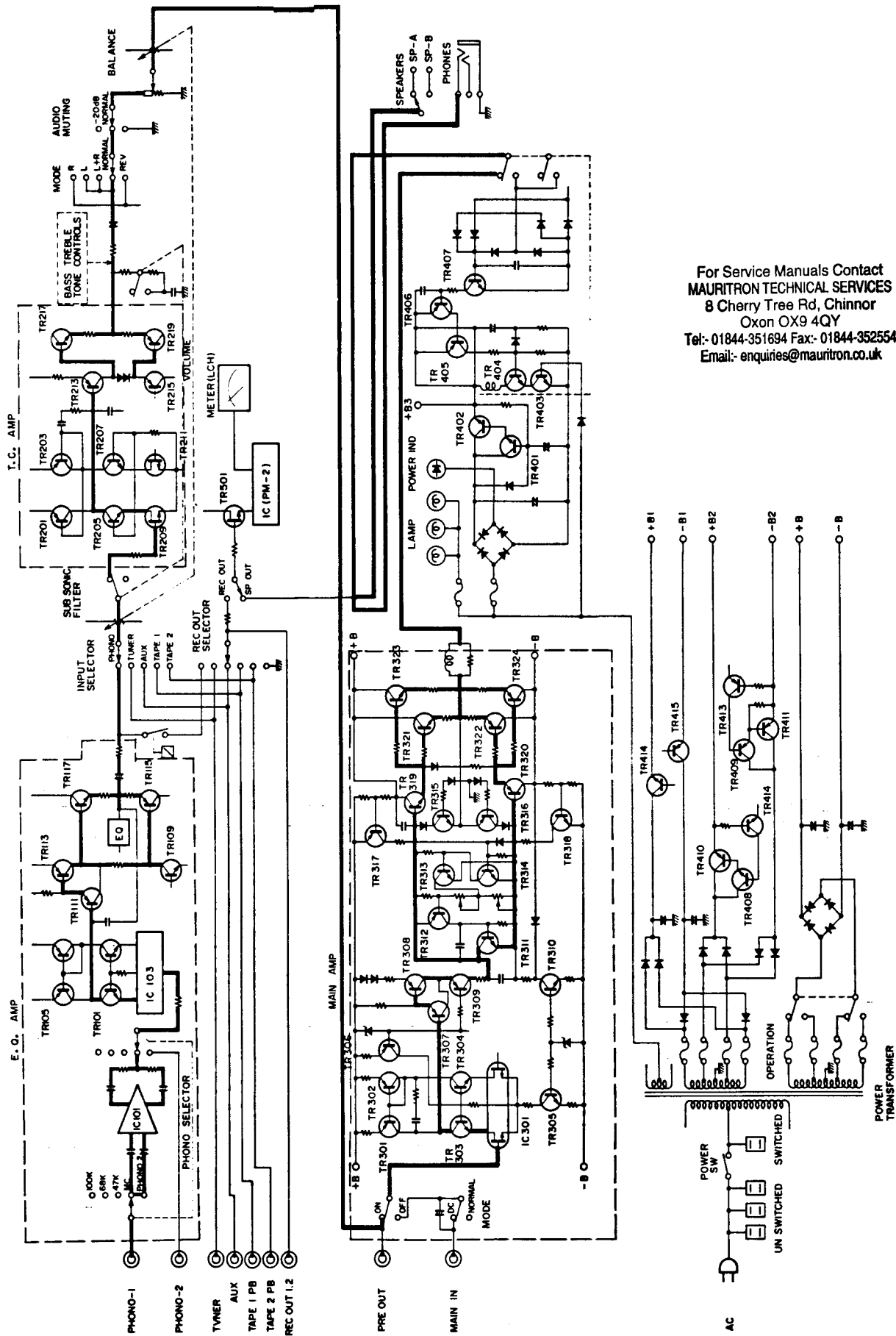


For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel: 01844-351694 Fax: 01844-352554
Email: enquiries@mauritron.co.uk

POWER SUPPLY CIRCUIT BOARD



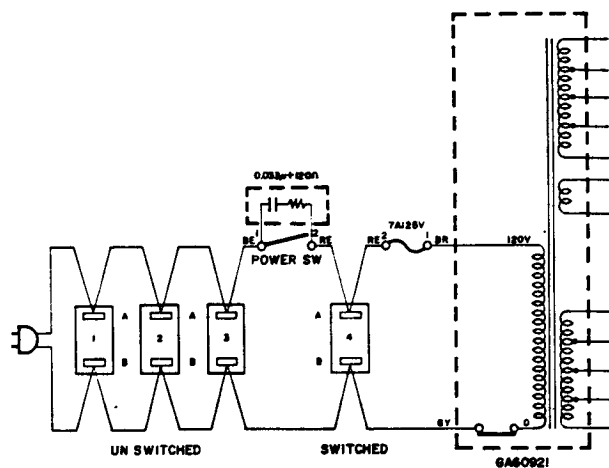
BLOCK DIAGRAM



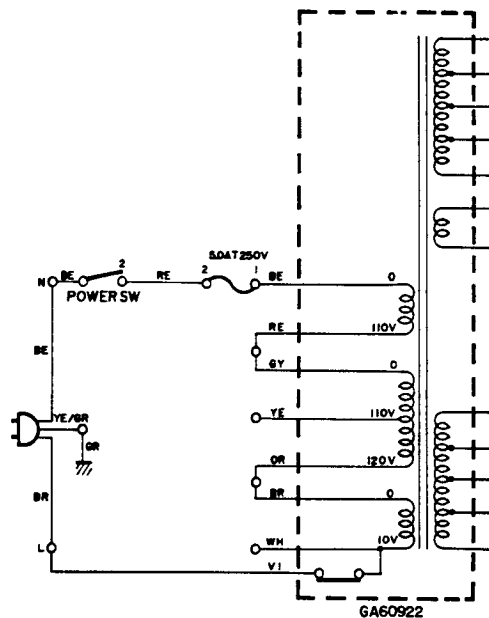
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

PARTIAL CHANGES MADE ACCORDING TO DESTINATION

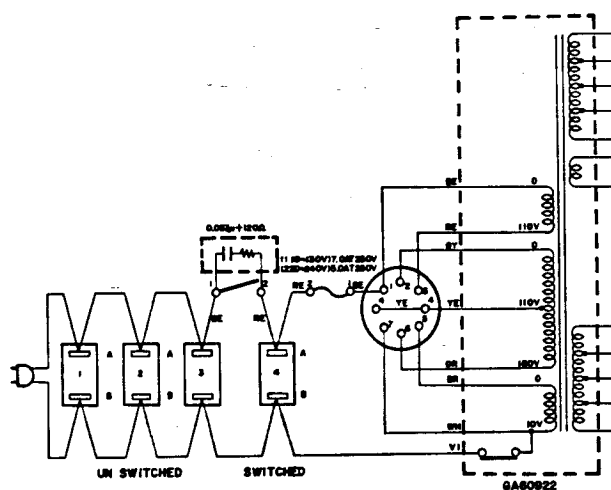
▼ U.S. & CANADIAN MODELS



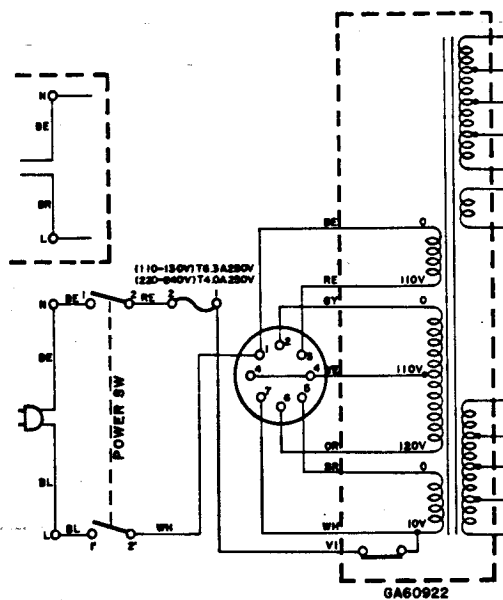
▼ AUSTRALIAN MODEL



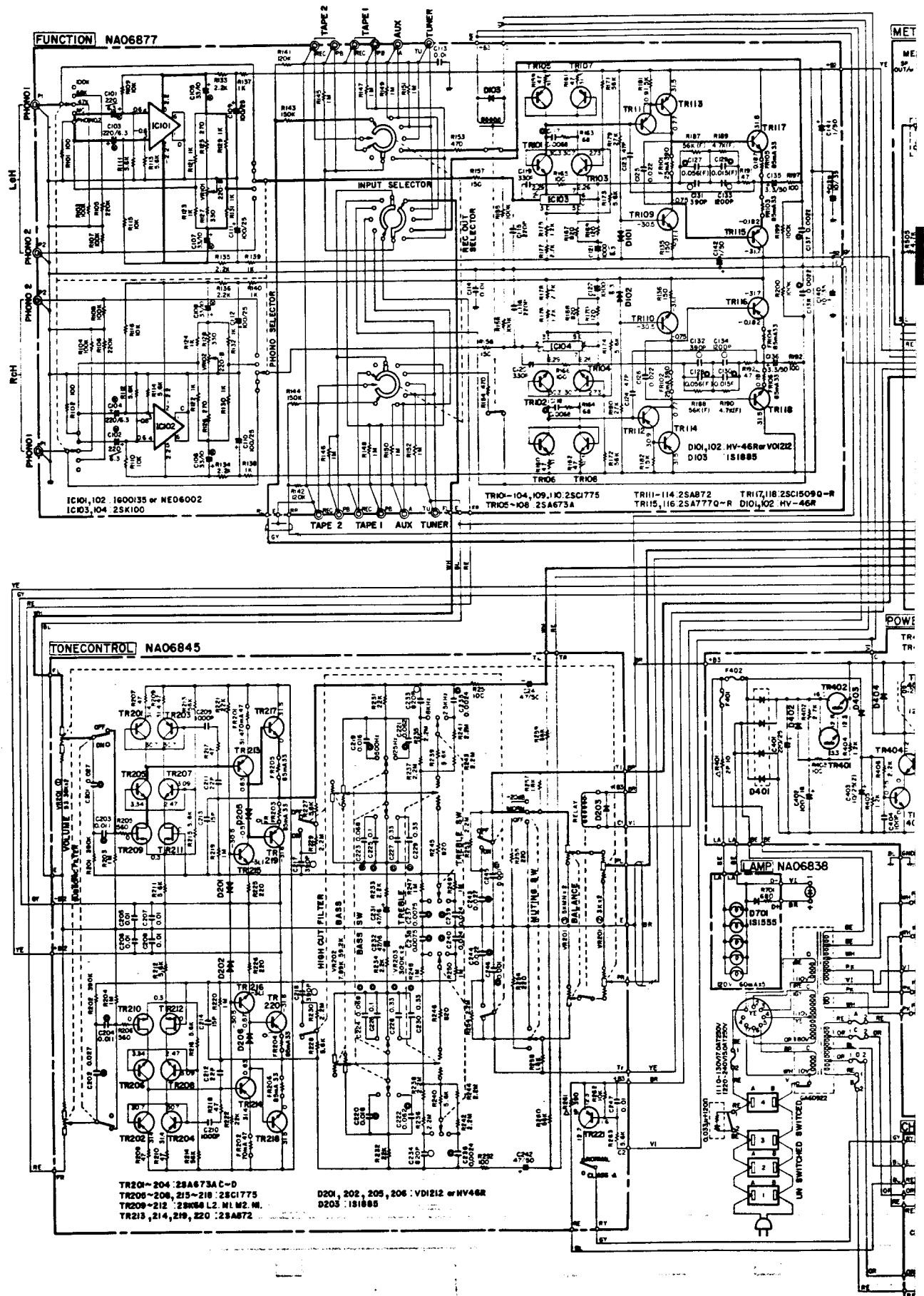
▼ GENERAL MODEL



▼ EUROPEAN MODEL



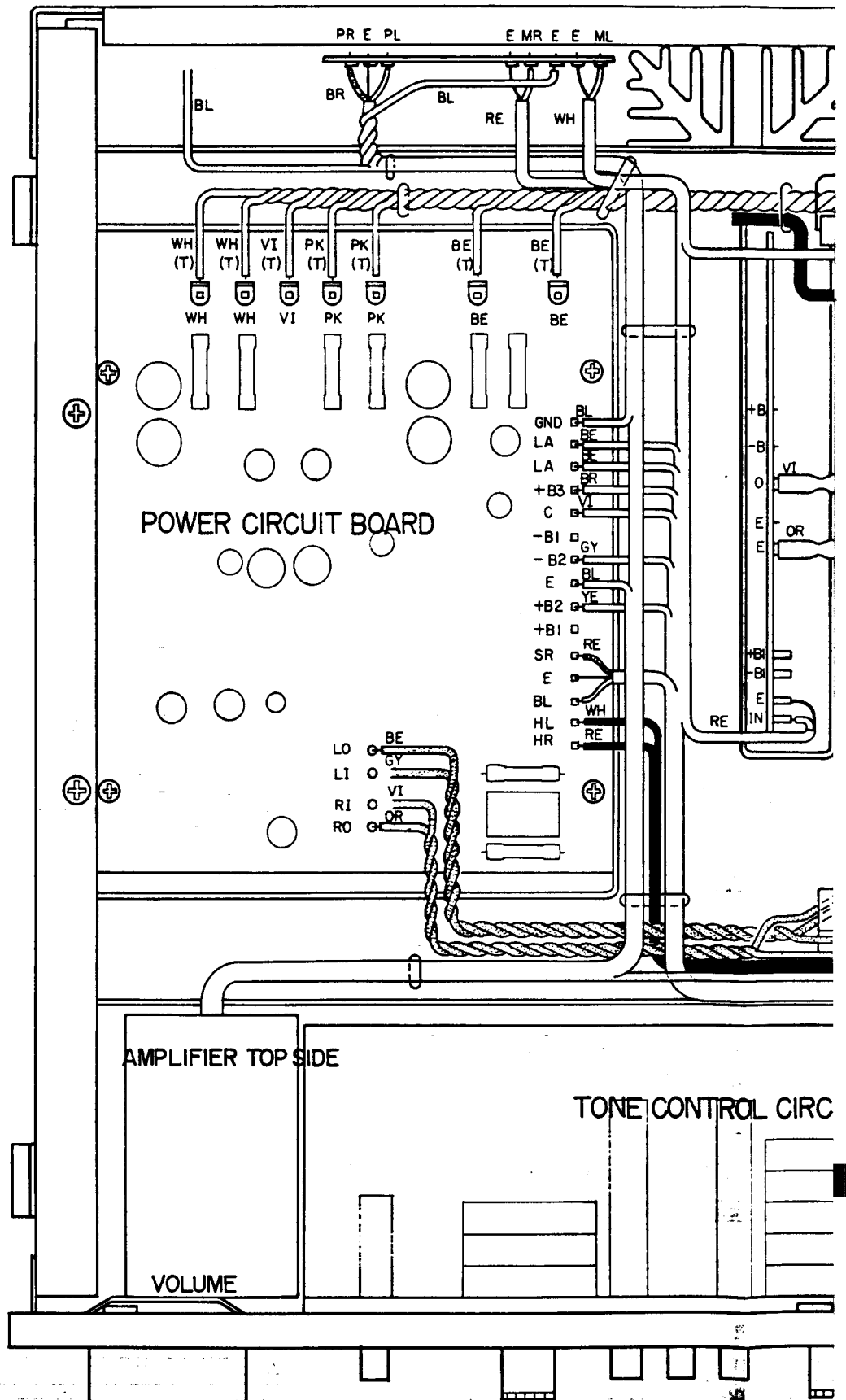
OVERALL SCHE



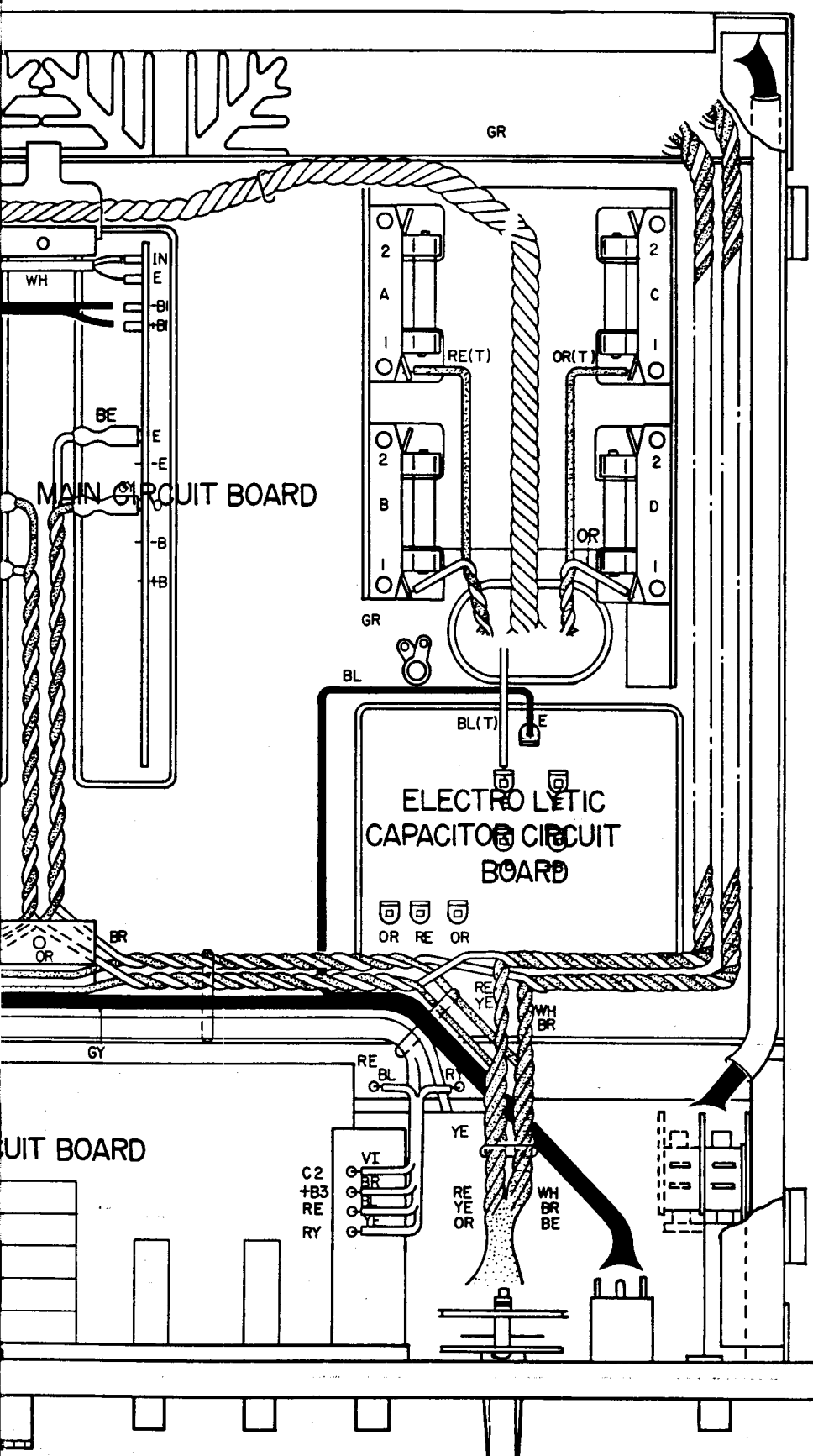
**For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel: 01844-351694 Fax: 01844-352554
Email: enquiries@mauritron.co.uk**



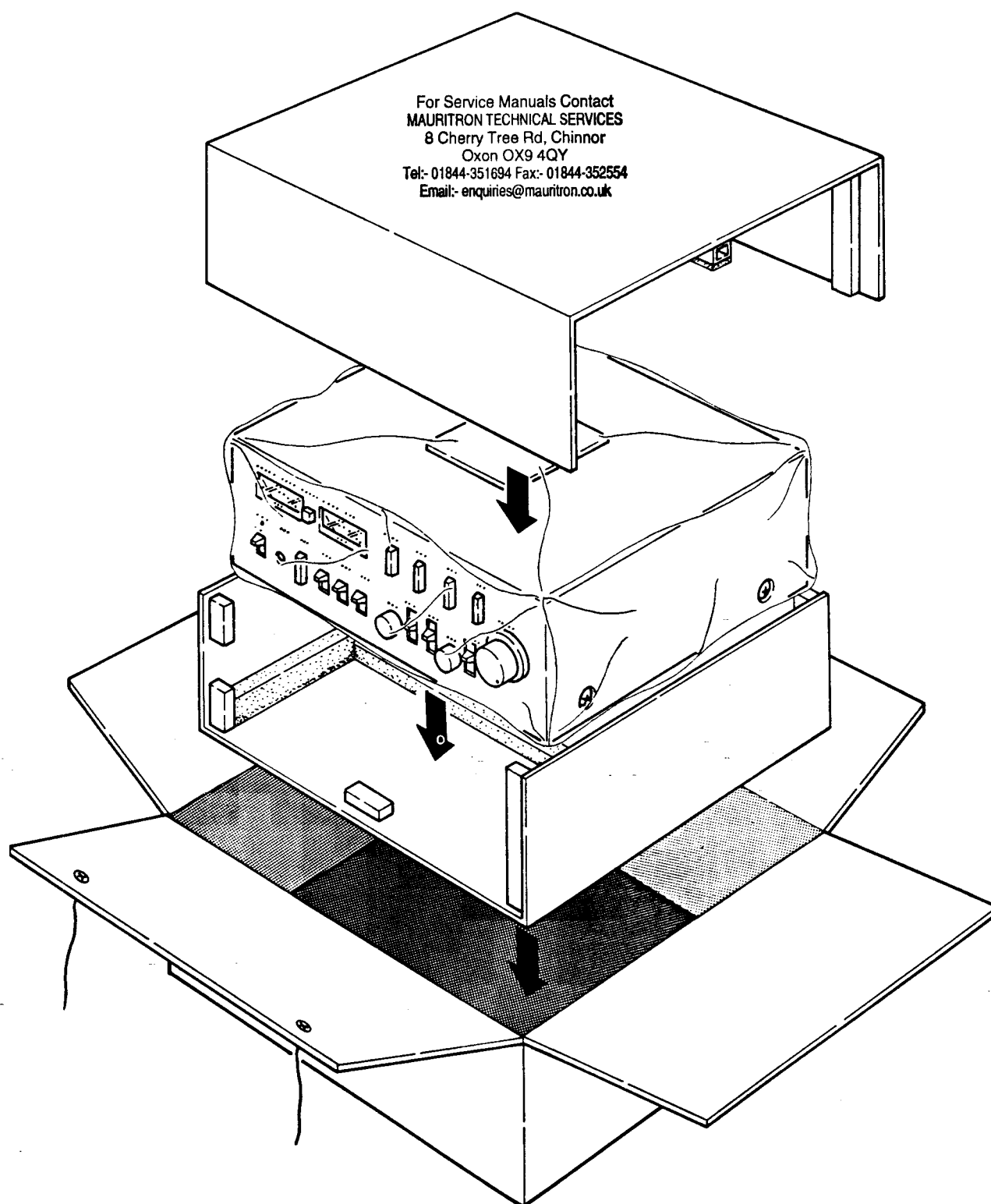
WIRING



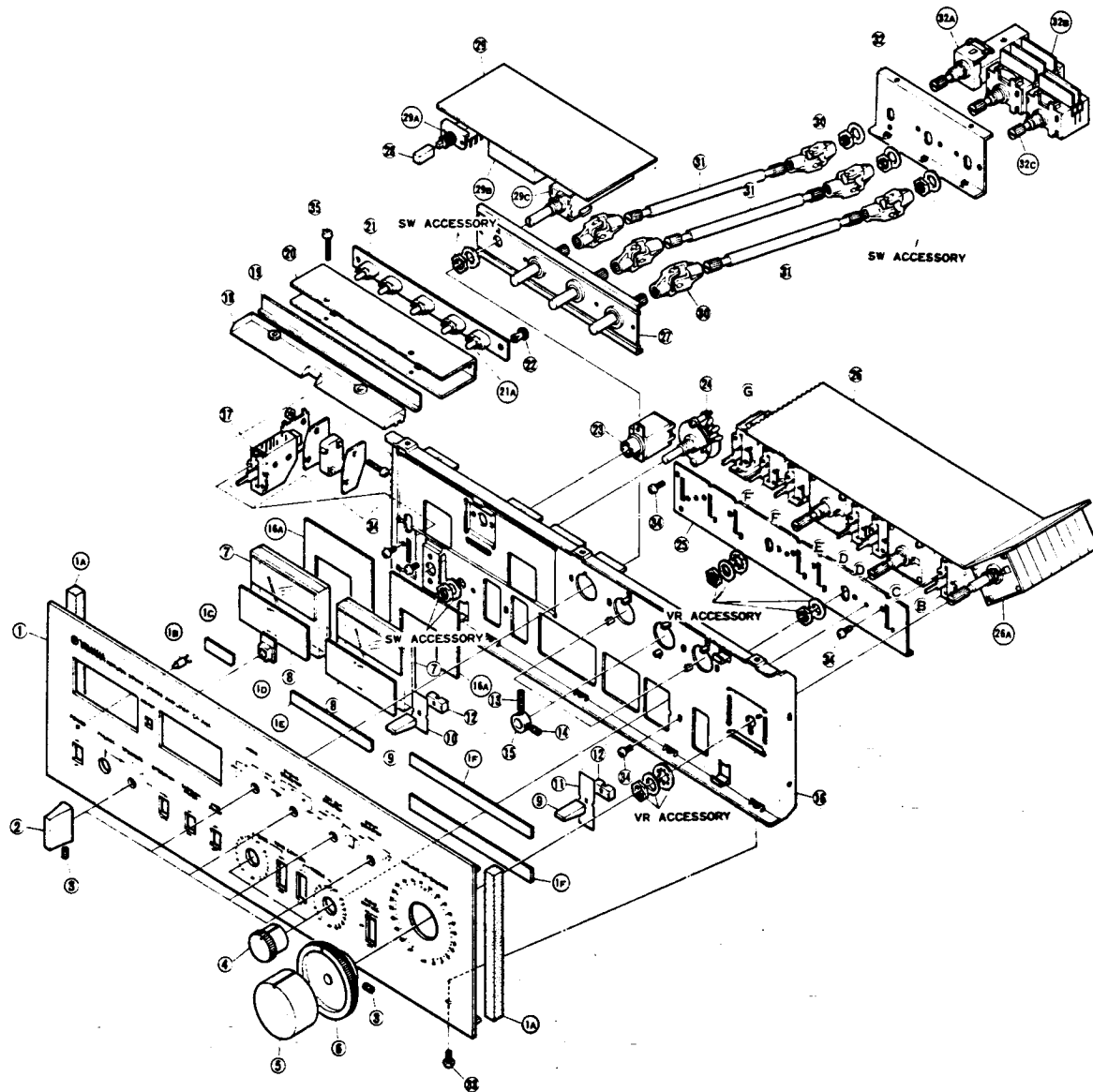
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk



PACKAGE

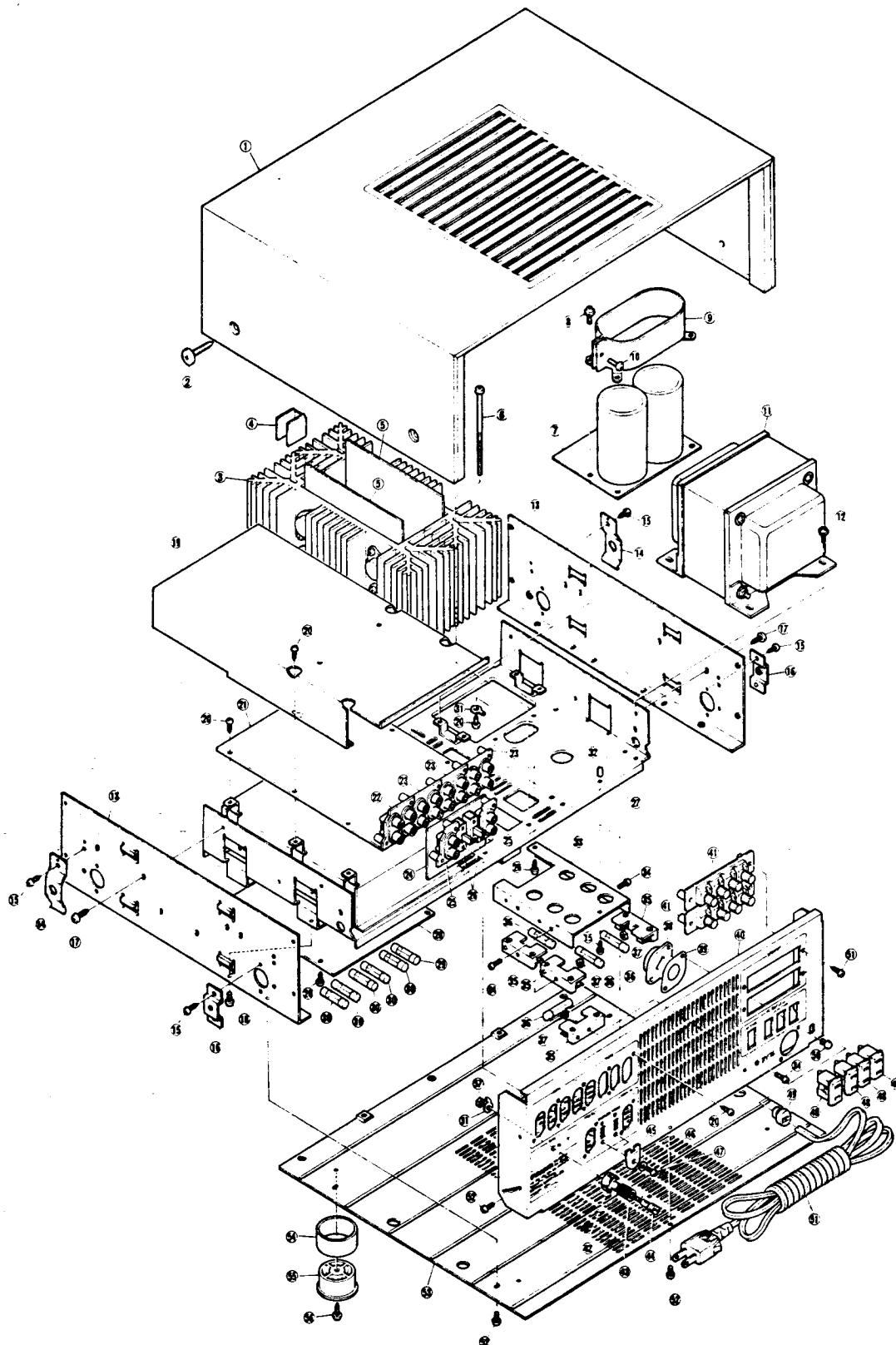


PARTS LIST

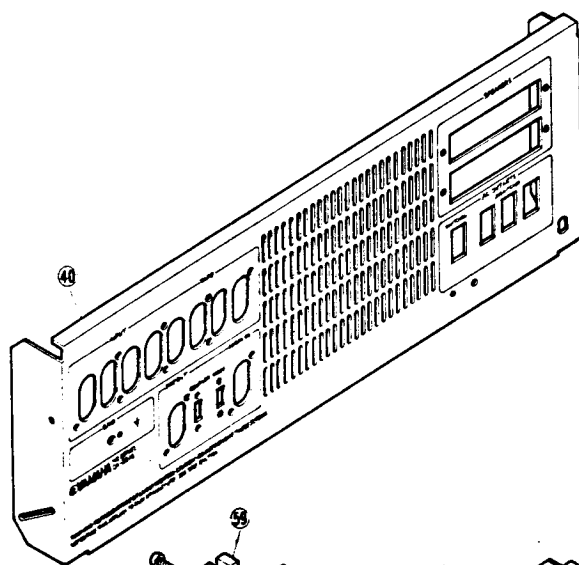


Ref. No.	Part No.	Description	Remarks	Common Models
1	32:00:00 NB:07:78:30	FRONT PANEL	フロントパネル R.U.C.A.E.B	
-A	42:00:00 CB:07:80:30	Shade Tape	遮光テープ	
-B	42:00:00 MZ:06:84:40	LED Ass'y	LED Ass'y	
-C	42:00:00 CB:07:90:20	Film for Apron	SWEブロン	
-D	32:00:00 CB:07:79:70	Push Button Frame	プッシュボタン枠	
-E	42:00:00 CB:07:90:00	Film for Apron	SWEブロン	
-F	42:00:00 CB:07:90:10	-do.-	"	
2	32:00:00 BA:06:44:20	Switch Knob	SWツマミ	
3	42:00:00 EZ:00:01:90	Hexagonal Set Screw	六角セットネジ	
4	32:00:00 BA:06:88:10	Knob	ツマミ	
5	32:00:00 BA:06:92:50	Double Knob	ダブルツマミ	
6	32:00:00 BA:06:91:20	-do.-	"	
7	42:00:00 JI:00:04:40	Peak Level Meter	ピークレベルメーター	
8	32:00:00 BA:06:91:10	Meter Panel	メーターパネル	
9	32:00:00 CB:06:85:70	Lever Knob	レバーツマミ	
10	42:00:00 CB:06:87:20	Switch Apron 15 x 29	SWEブロン	
11	42:00:00 CB:06:87:30	-do.- 15 x 42	"	
12	32:00:00 CB:06:85:80	Switch Bush	SW用ブッシュ	
13	42:00:00 EZ:00:04:10	Hexagonal Set Screw M3 x 14	ホローセットクボミ先 M 3 x 14	
14	42:00:00 EZ:00:04:20	-do.- M3 x 6	M 3 x 6	
15	32:00:00 AA:06:44:10	Joint Holder	ジョイントホルダー	
16	32:00:00 NB:07:78:50	Sub Shassis	サブシャーシユニット R.C.A.E.B	
16	32:00:00 NB:07:78:60	-do.-	" U	
-A	42:00:00 CB:07:81:50	Safeguard Tape	保護テープ	
17	42:00:00 KA:20:03:90	Power Switch	電源 SW U.C.A	
17	42:00:00 KA:20:04:00	-do.-	" E.B	
17	42:00:00 FZ:00:01:10	Spark Killer Cap.	スパークキラーコン U.E	
17	42:00:00 FZ:00:09:50	-do.-	" C	
18	32:00:00 CB:07:81:10	Lense (Lamp)	ランプレンズ	
19	32:00:00 CB:07:81:20	Collar Plate	カラープレート	
20	32:00:00 AA:08:34:90	Holder (Lamp)	レンズホルダー	
21	32:00:00 NA:06:83:80	Lamp C.B	ランプシート	
-A	42:00:00 JB:00:03:10	Pilot Lamp 12V 60mA	ランプ	
22	42:00:00 CB:06:88:80	Plastic Rivet	プラスチックリベット 3 x 5	
23	42:00:00 LB:30:04:80	Head-phone Jack	ヘッドホンジャック	
24	42:00:00 KA:50:06:80	Rotary Switch (Speaker)	SP 切換 SW	
25	32:00:00 AA:08:34:70	Switch Stay	SW ステイ	
26	32:00:00 NA:06:82:60	Tone Control C.B	トーンコン・シート U	
26	32:00:00 NA:06:82:70	-do.-	" R.C.E.A	
-A	42:00:00 HY:00:05:50	Variable Resistor (Vol. Control)	メイン VR	
-B	42:00:00 KA:20:05:70	Lever Switch	レバース W	
-C	42:00:00 HY:00:05:70	Variable Resistor	TREBLE トーン VR	
-D	42:00:00 KA:20:05:50	Lever Switch	レバース W	
-E	42:00:00 HY:00:05:60	Variable Resistor	BASS トーン VR	
-F	42:00:00 KA:20:05:40	Lever Switch	レバース W	
-G	42:00:00 KA:20:05:80	-do.-	"	
27	32:00:00 AA:08:57:90	Switch Stay	延長シャフトユニット	
28	32:00:00 CB:07:80:40	Push Button Silver	プッシュボタン	
29	32:00:00 NA:06:83:60	Meter C.B	メーターシート	

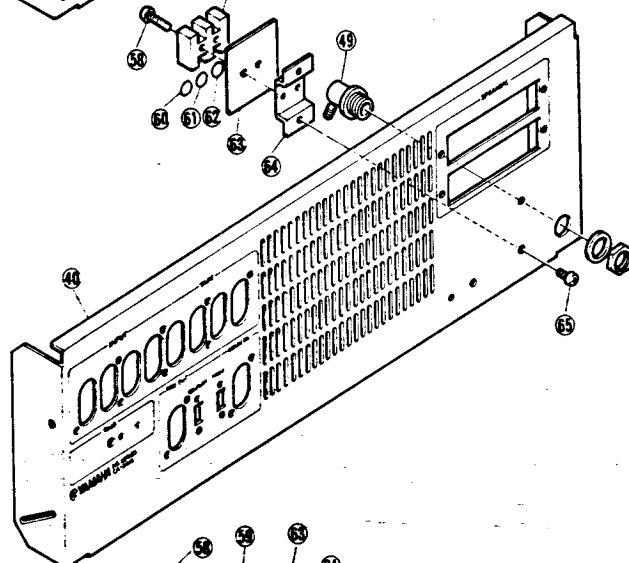
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk



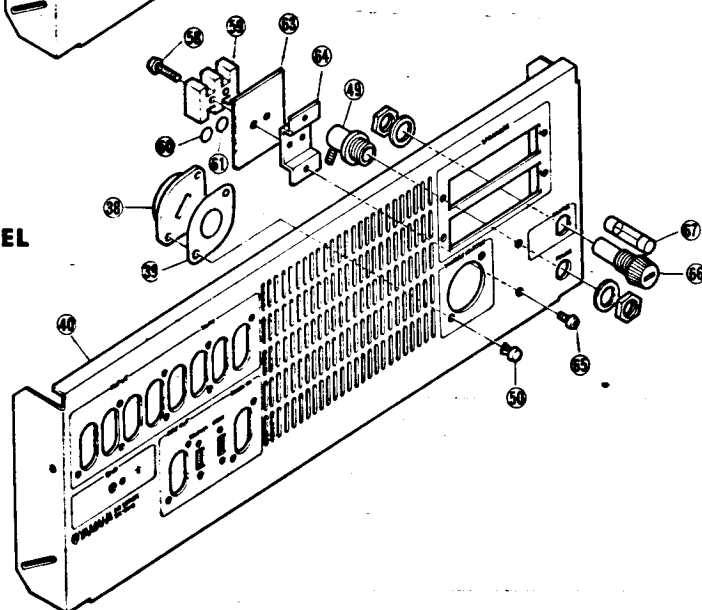
UL & CSA MODEL



AUSTRALIAN MODEL



EUROPEAN & B.S. MODEL



Ref. No.	Part No.	Description	Remarks	Common Models
1	32:00:00:86:61:42:20	Cabinet	外 装	R. A. E. B
1	32:00:00:86:61:42:30	-do.-	"	U. C
2	32:00:00:AA:03:32:60	Cabinet Fixing Screw	止 メ ネ ジ	
3	32:00:00:BA:06:79:70	Heat Sink	放 熱 器	
4	32:00:00:BA:06:91:40	-do.-	"	
5	32:00:00:NA:06:84:30	Main C.B	メ イン シ ー ト	U
5	32:00:00:NA:06:84:40	-do.-	"	J. R. C. A. E. B
6	42:00:00:EZ:00:02:90	Pan Head Screw M5 x 120	な べ 小 ネ ジ M 5 x 120	FCM3-BI
7	32:00:00:NA:06:83:70	Electrolytic Cap. C.B	ケ ミ コ ン シ ー ト	
8	42:00:00:EZ:00:02:60	BW Head Tapping Screw M3 x 8	BWヘッドタッピンネジ M 3 x 8	ZMC2-BI
9	32:00:00:AA:08:57:20	Band Electrolytic Cap.	ケ ミ コ ン バ ン ド	
10	42:00:00:EC:40:10:20	Binding Head Screw M4 x 10	バインド小ネジM4 x 10	FCM3-BI
11	42:00:00:GA:60:92:10	Power Transformer	電 源 ト ラ ン ス	U. C
11	42:00:00:GA:60:92:20	-do.-	"	R. A. E. B
12	42:00:00:EZ:00:03:90	BW Head Tapping Screw M4 x 8	BWヘッド小ネジ M 4 x 8	FCM3-BI
13	32:00:00:AA:08:57:10	Side Frame	サイドフレーム	
14	32:00:00:AA:08:57:70	Spring Metal	スプリング金具	
15	42:00:00:EI:33:00:60	Bind Tapping Screw M3 x 6	バインドタッピンネジ M 3 x 6	FCM3-BI
16	32:00:00:AA:08:57:80	Case Stay	ケ ー ス ス テ イ	
17	42:00:00:EI:34:00:80	Bind Tapping Screw M4 x 8	バインドタッピンネジ M 4 x 8	FCM3-BI
18	42:00:00:ED:34:00:80	Binding Head Screw M4 x 8	バインド小ネジM4 x 8	FCM3-BI
19	32:00:00:AA:08:33:30	Switch Cover	シールドケース	
20	42:00:00:EI:33:00:80	Binding Head Screw M3 x 8	バインドタッピンネジ M 3 x 8	FCM3-BI
21	32:00:00:NA:06:83:20	Function C.B	ファンクションシート	U
21	32:00:00:NA:06:83:30	-do.-	"	R. C. A. E. B
22	42:00:00:LB:40:03:40	Pin Jack PC4PL	ピンジャック PC4PL型改良	
23	40:00:00:LB:40:03:10	-do.- L-Type	"	
24	32:00:00:NA:06:84:20	Coupler C.B	カプラーシート	
25	42:00:00:LB:20:09:60	Pin Jack 2P	ピンジャック 2P	
26	42:00:00:KA:40:02:10	Slide Switch	スライドSW	
27	32:00:00:AA:08:57:00	Main Chassis	メインシャーシ	
28	32:00:00:NA:06:87:80	Power Supply C.B	電 源 シ ー ト	J. R. A
28	32:00:00:NA:06:87:90	-do.-	"	U. C
28	32:00:00:NA:06:88:00	-do.-	"	E. B
29	42:00:00:NB:00:03:10	Fuse 0.5AT 250V	ヒ ュ ー ズ	R. A
29	42:00:00:KB:00:07:10	-do.- 500mAT 250V S	"	B. E
29	42:00:00:KB:00:10:10	-do.- 0.5A 250V UL	"	U. C
30	42:00:00:KB:00:03:30	-do.- 1.0AT 250V	"	R. A
30	42:00:00:KB:00:07:30	-do.- 1.0AT 250V S	"	B. E
30	42:00:00:LB:00:10:20	-do.- 1.0AT 250V UL	"	U. C
31	42:00:00:LA:00:02:80	Lug Terminal M3	ア ー ス ラ グ	
32	42:00:00:CB:07:82:50	Screw Cover	ビスカバー	
33	32:00:00:AA:08:57:60	Fuse Stay	ヒューステアー	
34	42:00:00:ED:33:00:80	Binding Head Screw M3 x 8	バインド小ネジM3 x 8	FCM3-BI
35	42:00:00:LB:20:08:40	Fuse Holder	ヒュースホルダー	R. U. C. A. J
35	42:00:00:LB:20:09:40	-do.-	"	E. B
36	42:00:00:KB:00:01:80	Fuse 10A 125V	ヒ ュ ー ズ	R. A. J
36	42:00:00:KB:00:13:90	-do.- -do.-	ULタイムラグ	U. C
36	42:00:00:KB:00:07:70	-do.- -do.-	Ⓢ タイムラグ	E. B

Ref. No.	Part No.	Description	Remarks	Common Models
32:00:00	NA:06:82:30	Power Supply C.B	電源シート U.C	
32:00:00	NA:06:82:40	-do.-	" E.B	
32:00:00	NA:06:82:50	-do.-	" J.R.A	
42:00:00	FJ:23:81:00	Electrolytic Cap.	ケミコン タテ 100/16	
42:00:00	FJ:14:82:20	-do.-	" 220/25	
42:00:00	FJ:17:83:30	-do.-	" 330/63	
42:00:00	FJ:28:74:70	-do.-	" 47/80	
42:00:00	FJ:29:82:20	-do.-	" 220/100	
42:00:00	FM:09:62:20	Bipolar Electrolytic Cap.	ケミコン (B・P) 2.2/16	
42:00:00	FM:11:71:00	-do.- For Service Manuals Contact	" 10/50	
42:00:00	FM:39:81:00	MAURITRON TECHNICAL SERVICES	" 100/16	
42:00:00	FM:40:71:00	8 Cherry Tree Rd, Chinnor	" 10/25	
		Oxon OX9 4QY		
		Tel: 01844-351694 Fax: 01844-352554		
		Email: enquiries@mauriton.co.uk		
42:00:00	FZ:00:06:80	Metalized Film Resistor	金属被膜抵抗 0.1/250	
42:00:00	GD:90:00:50	Air Core Coil	空心コイル 3μH	
42:00:00	HL:42:41:00	Metal Oxide Resistor	酸化金属抵抗 2P 10Ω	
42:00:00	HL:42:62:70	-do.-	" 2P 2.7K	
42:00:00	HL:43:52:70	-do.-	" 3P 270Ω	
42:00:00	HZ:00:07:10	Incombustible Resistor	不燃性抵抗 1P 4.7Ω	
42:00:00	IA:08:44:00	Transistor 2SA844	トランジスタ	
42:00:00	IA:08:72:00	-do.- 2SA872	"	
42:00:00	IB:05:36:00	-do.- 2SB536	"	
42:00:00	IB:05:66:00	-do.- 2SB566ANS	" (B.C.D)	
42:00:00	ID:05:26:30	-do.- 2SD526	" (O~Y)	
42:00:00	IC:12:13:30	-do.- 2SC1213A	" (C.D)	
42:00:00	IC:17:75:00	-do.- 2SC1775	"	
42:00:00	IC:19:18:00	-do.- 2SC1918	" (E~G)	
42:00:00	ID:03:81:00	-do.- 2SD381	"	
42:00:00	ID:04:76:00	-do.- 2SD476ANS	" (B~D)	
42:00:00	IF:00:00:40	Diode 1S1555	ダイオード	
42:00:00	IH:00:04:20	-do.- 1S1885	"	
42:00:00	IH:00:03:30	-do.- 1S1887	"	
42:00:00	IH:00:04:70	-do.- 1D4B1	"	
42:00:00	IF:00:05:70	Zener Diode HZ-06C	ツェナーダイオード	
42:00:00	KB:00:03:10	Fuse Withstand Current 0.5AT 250V	ヒューズ J.R.A	
42:00:00	KB:00:07:10	-do.- S Time Lug 500mAT 250V	" E.B	
42:00:00	KB:00:10:10	-do.- UL 0.5A 250V	" U.C	
42:00:00	KB:00:03:30	-do.- Withstand Current 1.0AT 250V	" J.R.A	
42:00:00	KB:00:07:30	-do.- S Time Lug 1.0AT 250V	" E.B	
42:00:00	KB:00:10:20	-do.- UL 1.0A 250V	" U.C	
32:00:00	BA:06:91:40	Heat Sink	放熱器	

Ref. No.	Part No.	Description		Remarks	Common Models
42:00:00	KC:00:03:10	Relay	リ レ ー		
		Binding Head Screw M3 x 8	バインド小ネジ	FMN3-3m	
		Hexagonal Nut M3	六角ナット		
32:00:00	NA:06:84:30	Main C.B	メインシート	U	
32:00:00	NA:06:84:40	-do.-	"	J. R. C. A. E. B	
42:00:00	FH:61:12:20	Ceramic Cap. 100P/500	セラコン		
42:00:00	FH:61:16:80	-do.- 68P/500	"		
42:00:00	FH:61:14:70	-do.- 47P/500	"		
42:00:00	FJ:18:61:00	Electrolytic Cap.	ケミコンタテ	1/80	
42:00:00	FZ:00:06:80	Metalized Milar Cap.	メタライズドマイラ-C	0.047/400	
		Metal Film Resistor	金属被膜抵抗	240Ω	
42:00:00	HL:41:44:70	Metal Oxide Resistor	酸化金抵抗	1P 47Ω	
42:00:00	HL:41:48:20	-do.-	"	1P 82Ω	
42:00:00	HL:41:66:80	-do.-	"	1P 6.8K	
42:00:00	HL:41:71:20	-do.-	"	1P 12K	
42:00:00	HM:55:24:70	Cement and Ceramic Mold Resistor	セメント抵抗	5P 0.47Ω	
42:00:00	HM:55:41:00	-do.-	"	5P 10Ω	
42:00:00	HY:00:03:80	Metal Glaze V. R	メタルグレースVR	CR29R, B-2.2K	
42:00:00	HW:19:44:70	Fuse Resistor 70mA 47Ω	ヒューズ抵抗	J. R. C. B. A. E	
42:00:00	HW:29:44:70	-do.- -do.-	"	U	
42:00:00	HW:10:46:80	-do.- 85mA 68Ω	"	J. R. C. B. A. E	
42:00:00	HW:20:46:80	-do.- -do.-	"	U	
42:00:00	HW:19:51:00	-do.- 50mA 100Ω	"	J. R. C. B. A. E	
42:00:00	HW:29:51:00	-do.- -do.-	"	U	
42:00:00	HW:19:53:90	-do.- 25mA 390Ω	"	J. R. C. B. A. E	
42:00:00	HW:29:53:90	-do.- -do.-	"	U	
42:00:00	HW:19:34:70	-do.- 230mA 4.7Ω	"	J. R. C. B. A. E	
42:00:00	HW:29:34:70	-do.- -do.-	"	U	
42:00:00	HZ:00:07:10	Incombustible Resistor	不燃性抵抗	1P 4.7Ω	
42:00:00	IA:06:73:10	Transistor 2SA673A	トランジスタ	(C. D)	
42:00:00	IA:07:45:30	-do.- 2SA745B	"	(O ~ Y) 140V > Vcbo	
42:00:00	IA:08:72:20	-do.- 2SA872	"	BV	
42:00:00	IB:05:37:10	-do.- 2SB537	"	150V > Vcbo	
42:00:00	IC:12:13:30	-do.- 2SC1213A	"	(C. D)	
42:00:00	IC:14:03:30	-do.- 2SC1403B	"	(O ~ Y) 140V > Vcbo	
42:00:00	IC:17:75:00	-do.- 2SC1775	"		

Ref. No.	Part No.	Description		Remarks	Common Models	
	42:00:00:IC:17:75:20	Transistor	-do.-	トランジスタ	BV	
	42:00:00:ID:03:82:10	-do.-	2SD382	.	150V > Vcbo	
	32:00:00:IE:10:07:70	FET	2SK99A	F E T		
	42:00:00:IF:00:00:40	Diode	1S1555	ダイオード		
	42:00:00:IF:00:07:50	-do.-	1S2462	.		
	42:00:00:IH:00:02:40	-do.-	1S1885	.		
	42:00:00:IF:00:05:70	Zener Diode	HZ6C	ツェナーダイオード		
	42:00:00:IF:00:02:80	-do.-	WZ210	.		
	32:00:00:BA:06:79:70	Heat Sink		放 熱 板		
	32:00:00:BB:06:30:80	Pusher for Transistor		T r プッシャー		
	42:00:00:IL:00:02:30	Base for Transistor		マイカベース	AC201	
	42:00:00:LB:30:02:70	Socket for Transistor		T r ソケット		
		Binding Head Screw	M3 x 8	バインド小ネジ	FNM3-3m	
		Hexagonal Nut	M3	六角ナット	BNM1-3m	
	32:00:00:NA:06:83:20	Function C.B		ファンクションシート	U	
	32:00:00:NA:06:83:30	-do.-		.	R. C. A. E. B	
	42:00:00:FD:11:23:90	Polystyrene Capacitor		スチコン	390P/50	
	42:00:00:FJ:21:91:00	Electrolytic Capacitor		ケミコンタテ	1000/6.3	
	42:00:00:FJ:14:81:00	-do.-		.	100/25	
	42:00:00:FZ:00:10:40	Tantalum Capacitor		タンタルコンデンサ	100/6.3	
	42:00:00:FD:12:81:00	-do.-		.	100/10	
	42:00:00:FZ:00:07:20	UPF Capacitor		U P Fコンデンサ	0.015/50	
	42:00:00:FZ:00:07:30	-do.-		.	0.056/50	
	42:00:00:HT:41:00:10	Solid Type VR.		ソリッドVR 10	B-220Ω	
	42:00:00:HU:87:64:70	Metal Film Resistor		金属被膜抵抗	4.7K	
	42:00:00:HU:87:75:60	-do.-		.	56K	
	42:00:00:HW:19:43:30	Fuse Resistor	85mA 33Ω	ヒューズ抵抗	R. C. B. A. E	
	42:00:00:HW:29:43:30	-do.-	-do.-	.	U	
	42:00:00:HW:19:53:90	-do.-	25mA 390Ω	.	R. C. B. A. E	
	42:00:00:HW:29:53:90	-do.-	-do.-	.	U	
	42:00:00:IA:06:73:10	Transistor	2SA673A	トランジスタ	(C. D)	
	42:00:00:IA:07:77:30	-do.-	2SA777	.	(Q. R)	
	42:00:00:IA:08:72:00	-do.-	2SA872	.		
	42:00:00:IC:15:09:30	-do.-	2SC1509	.	(Q. R)	

Ref. No.	Part No.	Description		Remarks	Common Models
42 00 00	I C 17 75 00	Transistor	2SC1775	"	
32 00 00	I E 10 06 00	Dual FET	2SK100	F E T	
42 00 00	I F 00 05 30		HV46R	バ リ ス タ	
42 00 00	I F 00 07 70		VD1212	"	
42 00 00	I G 00 13 50	I.C	# 00135	I C	
42 00 00	I H 00 02 40	Diode	1S1885	ダ イ オ ー ド	
42 00 00	K C 00 03 00	Lead Relay	RL6442-H132	リ ー ド リ レ ー	
32 00 00	N A 06 82 60	Tone Control C.B		ト ー ン コ ン シ ー ト	U
32 00 00	N A 06 82 70	-do.-		"	R. C. A. E. B
42 00 00	F D 11 23 90	Polystyren Capacitor	390P/50	ス チ コ ン タ ー	
42 00 00	F D 11 28 20	-do.-	820P/50	"	
42 00 00	H L 41 53 90	Metal Oxide Resistor		酸 金 抵 抗	1P 390Ω
42 00 00	H W 19 43 30	Fuse Resistor	85mA 33Ω	ヒ ュ ー ズ 抵 抗	R. C. B. A. E
42 00 00	H W 29 43 30	-do.-	-do.-	"	U
42 00 00	H W 19 44 70	-do.-	70mA 47Ω		
42 00 00	H W 29 44 70	-do.-	-do.-		
42 00 00	I A 06 73 10	Transistor	2SA673A	ト ラ ン ジ ス タ	(C. D)
42 00 00	I A 08 72 00	-do.-	2SA872	"	
42 00 00	I C 17 75 00	-do.-	2SC1775	"	
42 00 00	I E 10 05 50	FET	2SK68A	F E T	L2, M1, M2, N1
42 00 00	I F 00 05 30	Varistor	HV46R	バ リ ス タ	
42 00 00	I F 00 07 70	"	VD1212	"	
42 00 00	I H 00 02 40	Diode	1S1885	ダ イ オ ー ド	
42 00 00	K C 00 03 00	Lead Relay	RL6442H132	リ ー ド リ レ ー	
32 00 00	N A 06 83 60	Meter C.B		メ ー タ ー シ ー ト	
42 00 00	H L 41 61 00	Metal Oxide Resistor		酸 金 抵 抗	1P, 1K
42 00 00	H T 41 00 90	Solid Type VR	10φ B-4.7K	ソ リ ッ ド V R ヨ コ 型	
42 00 00	I E 00 00 20	FET	2SK30A GR	F E T	
42 00 00	I F 00 05 50	Zener Diode	HZ12C	ツ ェ ナ ー ダ イ オ ー ド	
42 00 00	I G 00 13 60	I.C	PM-02	I C	
32 00 00	N A 06 83 70	Electrolytic Cap. C.B		ケ ミ コ ン シ ー ト	

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

