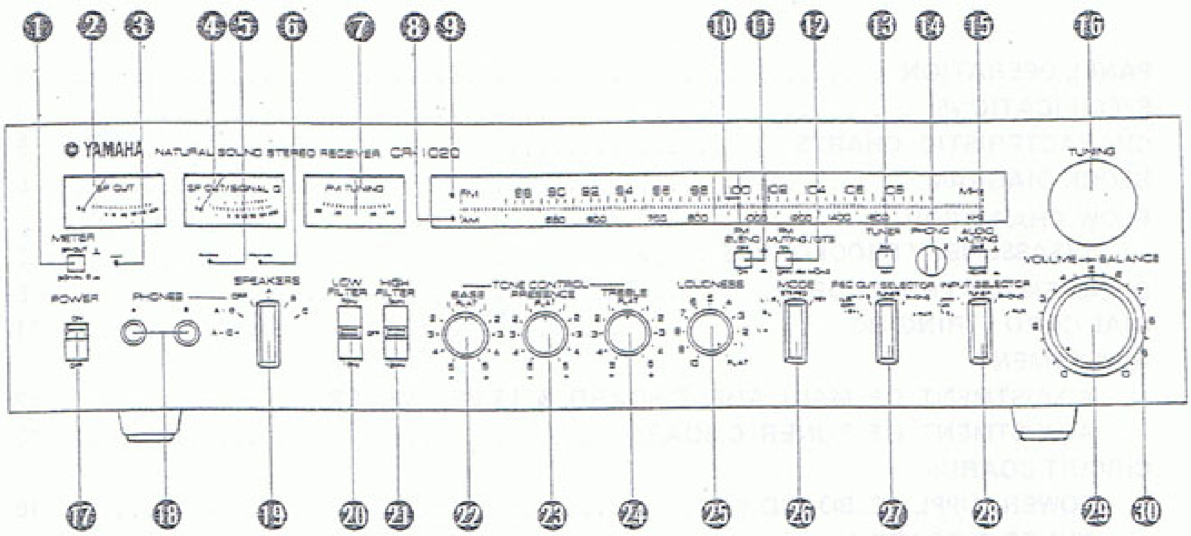
CR-1020

FM/AM STEREO RECEIVER

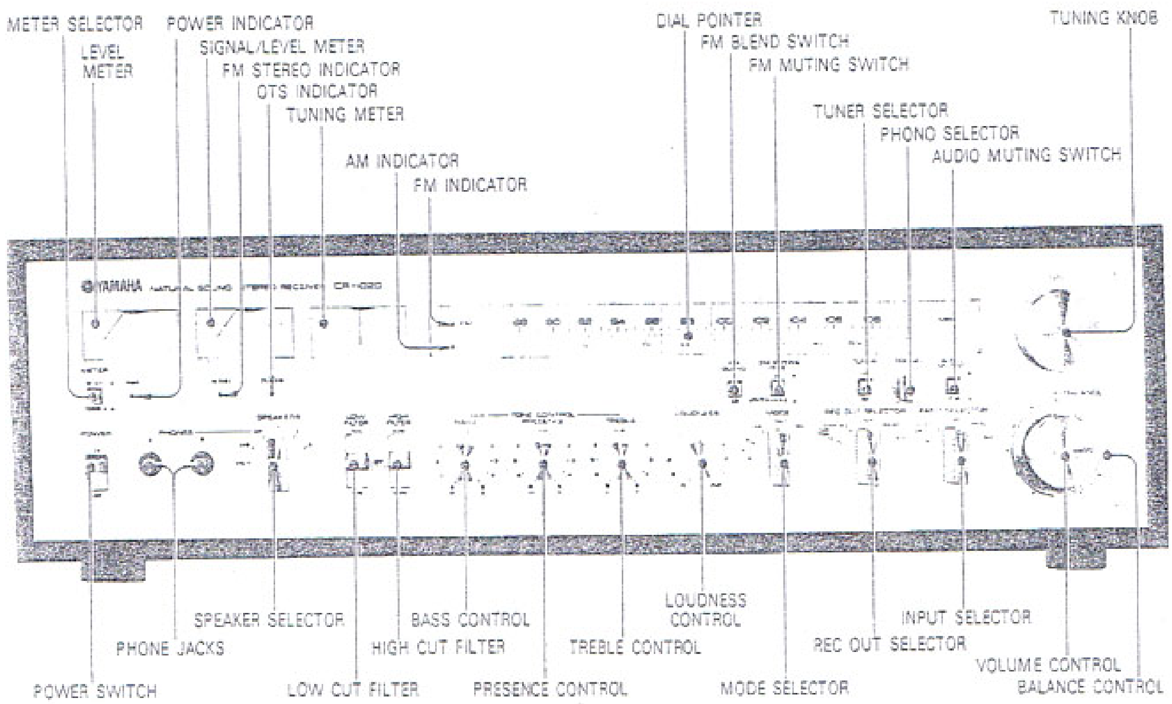


1 METER SELECTOR
2 LEVEL METER
3 POWER INDICATOR
4 SIGNAL/LEVEL METER
5 FM STEREO INDICATOR
6 OTS INDICATOR
7 TUNING METER
8 AM INDICATOR
9 FM INDICATOR
10 DIAL POINTER
11 FM BLEND SWITCH
12 FM MUTING SWITCH
13 TUNER SWITCH
14 PHONO SELECTOR
15 AUDIO MUTING SWITCH
16 TUNING KNOB
17 POWER SWITCH
18 HEADPHONE JACKS
19 SPEAKER SELECTOR
20 LOW CUT FILTER SWITCH
21 HIGH CUT FILTER SWITCH
22 BASS CONTROL
23 PRESENCE CONTROL
24 TREBLE CONTROL
25 LOUDNESS CONTROL
26 MODE SELECTOR
27 REC OUT SELECTOR
28 INPUT SELECTOR
29 VOLUME CONTROL
30 BALANCE CONTROL

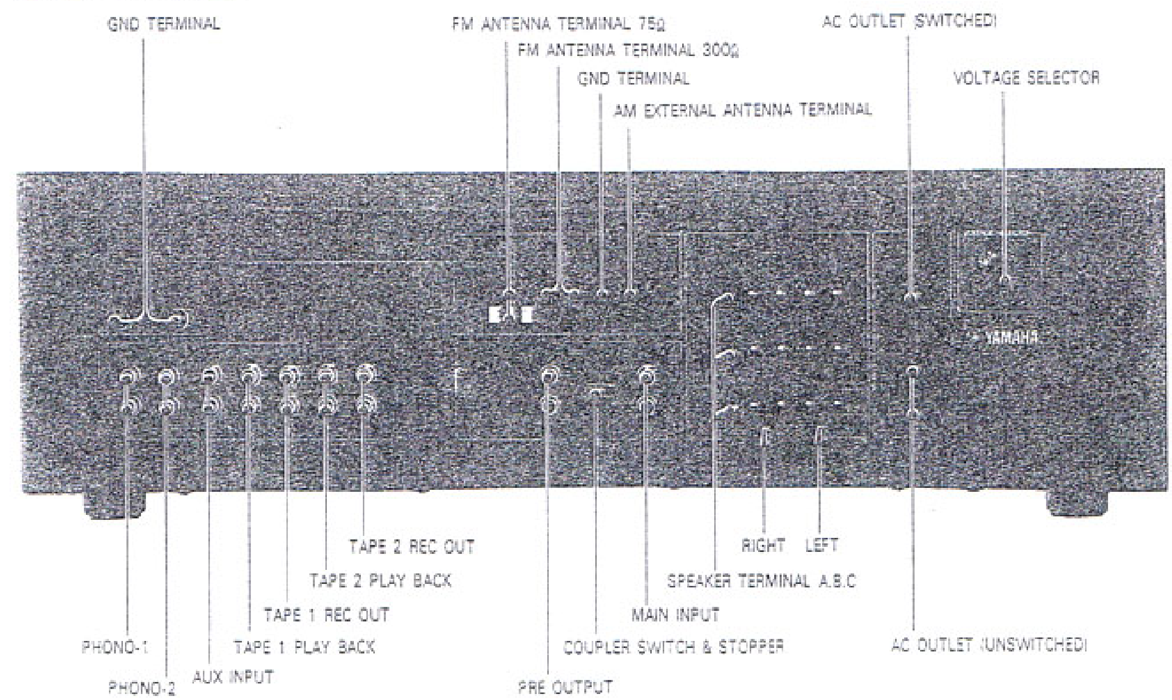
CONTENTS

PANEL OPERATION

FRONT PANEL



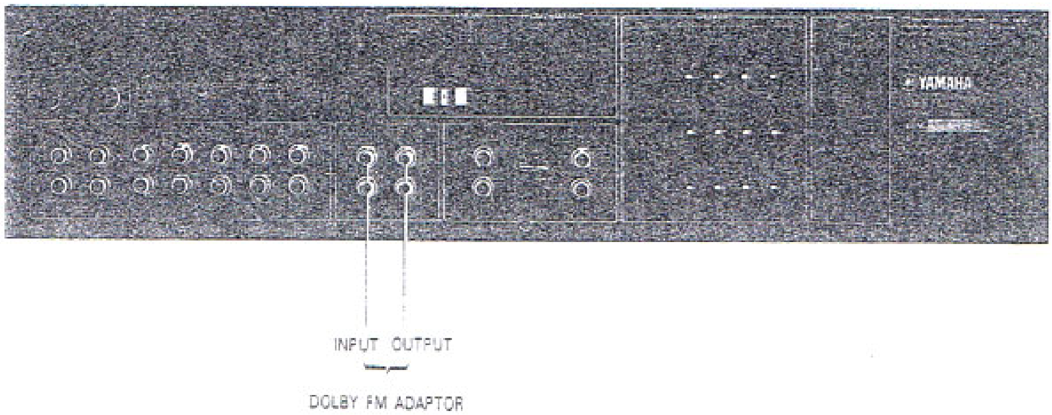
REAR PANEL
GENERAL MODEL



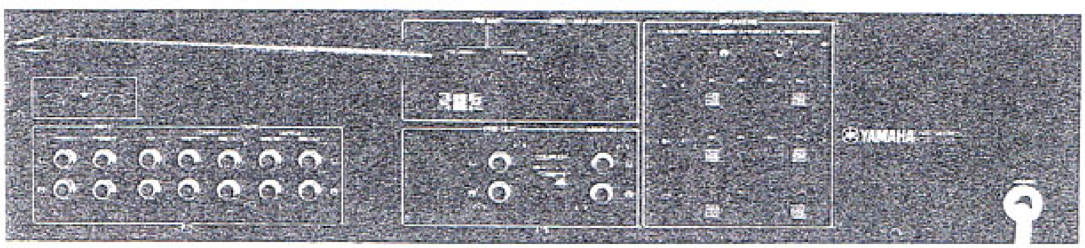
PANEL OPERATION

REAR PANEL

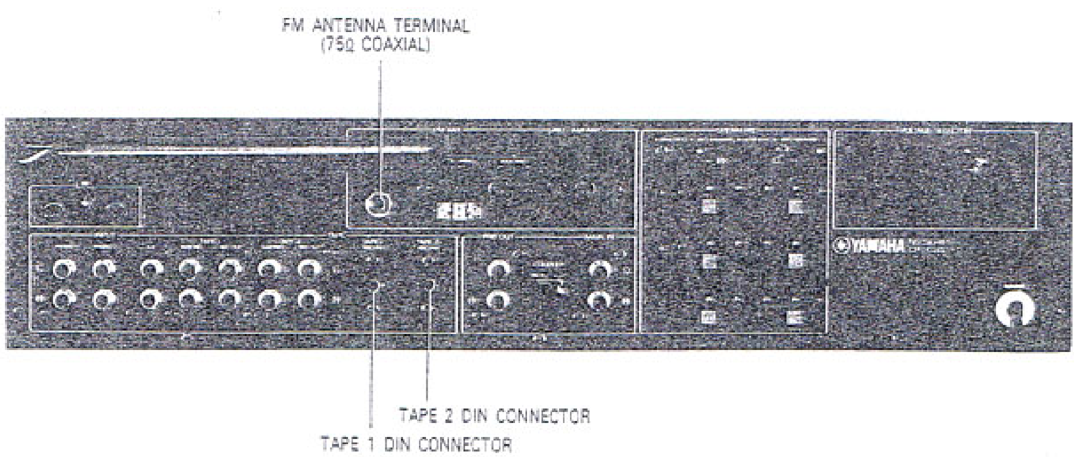
US & CANADIAN MODEL



UK & AUSTRALIAN MODEL



EUROPEAN MODEL



SPECIFICATIONS

AMPLIFIER SECTION

Input Sensivity/Impedance
- Phono 1, 2(MM) : 2mV-1kHz/47kΩ, max. 230V
- AUX, Tape 1, 2 : 120mV/45kΩ
- DIN 1, 2 : 120V/45kΩ(European model only)
- Main In : 775mV/100kΩ

Output Level/Impedance
- REC. OUT 1.2 : 120mV/500Ω(Phono) 6kΩ(Tuner) max. 15V(Phono, 1kHz)
- DIN OUT 1, 2 : 30mV/52kΩ(European model only)
- PRE OUT : 775mV (750Ω) max. 5V

Frequency Response
- Phono 1(MM, MC), 2 RIAA Deviation: ±0.2dB
- AUX, Tape 1, 2 to SP. out: ±2.5dB(10Hz to 100kHz)
- Main in to SP. out: ±2.5dB(10Hz to 100kHz)

Tone Control Characteristics
- BASS : Turnover 350Hz Variable Range ±15dB/50Hz
- TREBLE : Turnover 3.5kHz Variable Range ±10dB/20kHz
- PRESENCE : Center 3kHz 2kHz±6dB

Filter Characteristics
- Low Filter : fc=15Hz, 70Hz 12dB/oct
- High Filter : fc=8kHz, 12kHz 12dB/oct

Loudness Characteristics
- According to the Fletcher and Munson curve

Signal-to-Noise Ratio and Noise Level
- Phono 1(MM), 2 : (2mV) 81dB (IHF A Network, Input Short Circuited)
- AUX : 100dB (IHF A Network, 5.1kΩ Short Circuited)
- Tape : 100dB (-do.-)
- Main : 112dB (-do.-)
- Residual Noise : 100μV (IHF A Network, Vol. min)

Total Harmonics Distortion
- Phono 1(MM), 2 : 0.01%(20 to 20kHz) REC OUT 7.5V
- AUX : 0.02%(-do.-) SP. OUT 50W/8Ω
- Tape : 0.02%(-do.-) SP. OUT 50W/8Ω
- Main In : 0.015%(-do.-) SP. OUT 50W/8Ω
- Phono 1(MM), 2 : 0.1%(0.1 to 100W/8Ω) Vol. −20dB
- IM Distortion AUX: 0.02% SP. OUT 50W/8Ω

Rating Output and etc.
- 8Ω Both ch. driven: 70W (20 to 20kHz) 0.05% T.H.D
  80W (1kHz) 0.05% T.H.D
- 4Ω Both ch. driven: 80W (20 to 20kHz) 0.05% T.H.D
  (Except E & BS) 90W (1kHz) 0.05% T.H.D
- Power Band Width: 10 to 50kHz
- Dumping Factor: 40 or more, 1kHz/8Ω

TUNER SECTION-FM

Tuning Range
- 88 to 108MHz

Usable Sensitivity, 98MHz
- IHF mono: 1.8μV (300Ω) 10.3dBf
  0.9μV (75Ω) 10.3dBf
- DIN mono: 1.3μV (Dev: 40kHz, S/N: 26dB)
  stereo: 40μV (Dev: 40kHz, S/N: 46dB)

50-dB Quieting Sensitivity
- mono: 3.2μV, 15.3dBf
- stereo: 40μV, 37.2dBf

Signal-to-Noise Ratio
- mono: 77dB, DIN (Dev: 40kHz) 71dB
- stereo: 73dB, DIN (Dev: 40kHz) 67dB

Image Interference Ratio (98MHz) : 85dB
IF Interference Ratio (98MHz): 90dB
Spurious Interference Ratio (98MHz): 100dB
Amplitude Suppression Ratio IHF: 65dB
Capture Ratio: 1dB
Alternate-Channel Selectivity 80dB
DIN (Dev: ±300kHz, 40kHz): 60dB

Total Harmonics Distortion
- mono : 100Hz, 0.08%
  1kHz, 0.08%
  6kHz, 0.15%
- stereo : 100kHz, 0.15%
  1kHz, 0.1%
  6kHz, 0.2%

Cross Modulation Distortion
- IHF mono : 0.05%
  stereo : 0.1%

Stereo Separation
- 50Hz : 35dB
- 1KHz : 50dB
- 10kHz : 45dB

Frequency Response
- 50 to 10kHz : ±0.3dB
- 30 to 15kHz : ±0.5dB
- 10 to 18kHz : +0.5 −3dB

Sub Carrier Suppression 60dB
Muting Signal Level 3μV (14.8dBf), 30μV (34.8dBf)

TUNER SECTION-AM

Tuning Range 525 to 1605kHz
Usable Sensitivity (Used Bar antenna)
IHF: 300μV/m (49dB/m)

Selectivity	1000kHz:	30dB
Signal-to-Noise Ratio	80dB/m:	50dB
Image Interference Ratio	1000kHz:	55dB
IF Interference Ratio	1000kHz:	40dB
Sprious Interference Ratio	1000kHz:	55dB
Total Harmonics Distortion	80dB/m:	0.4%

Output Level/Impedance
- FM(Mod. 100%) : 450mV/6.5KΩ(REC OUT)
- FM(Mod. 30%) : 120mV/6.5KΩ(REC OUT)

GENERAL

Used Semi Conductors

109 Transistors	58 Diodes
4 ICs	7 Zener Diodes
3 FETs	5 LEDs
	4 CFs

Rated Voltage
- 120V/60Hz (US. and CANADA)
- 240V/50Hz, (UK. and AUSTRALIA)
- 110, 120, 130, 220, 230 and 240V/50, 60Hz (EUROPE and General export models)

Rated Power Consumption
- 320W, 390VA (US., CANADA and General export models)
- 520W (UK., EUROPE and AUSTRALIA)

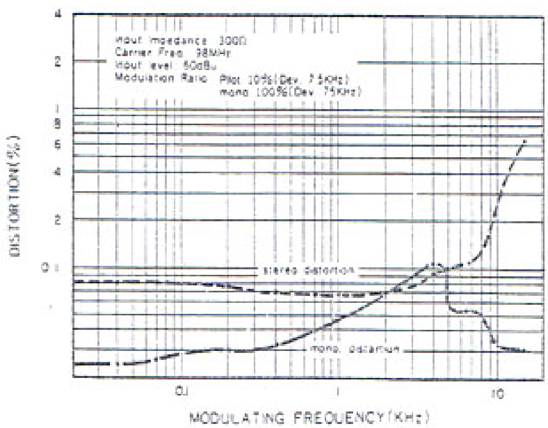
Dimensions
- 540(W) x 167(H) x 415(D)mm
  21-1/4 x 6-9/16 x 16-5/16 in (US., CANADA and General export models)
- 521(W) x 146.5(H) x 415(D)mm
  20-1/2 x 5-3/4 x 16-5/16 in (UK. and EUROPE)

Weight
- 18.8kg 41.4 lbs (US., CANADA, AUSTRALIA and General export models)
- 18.6kg 40.3 lbs (UK. and EUROPE)

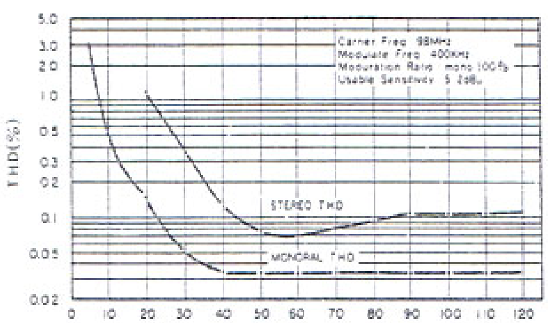
CHARACTERISTIC CHARTS

TUNER SECTION-FM

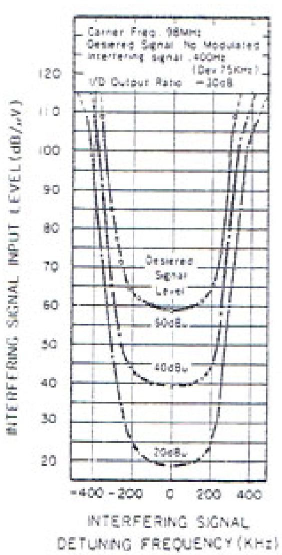
DISTORTION V. MODULATING FREQUENCY



T.H.D. V. INPUT LEVEL

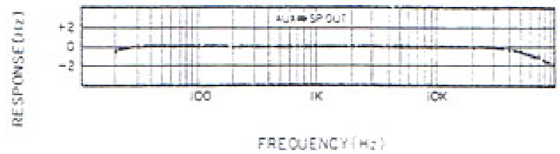


FM 2 SIGNALS EFFECTIVE SELECTIVITY

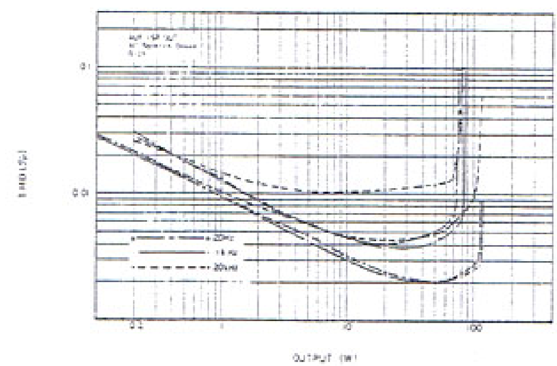


AMPLIFIER SECTION

FREQUENCY RESPONSE

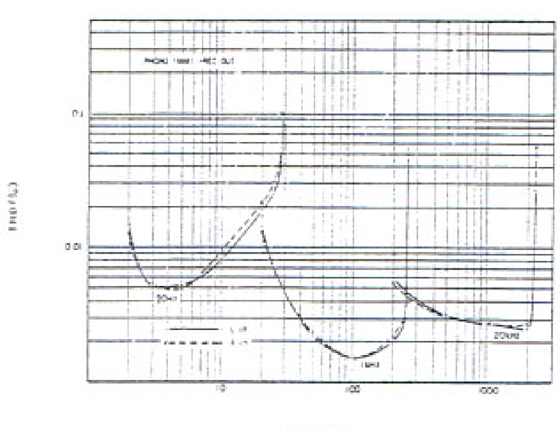


T.H.D.V. OUTPUT

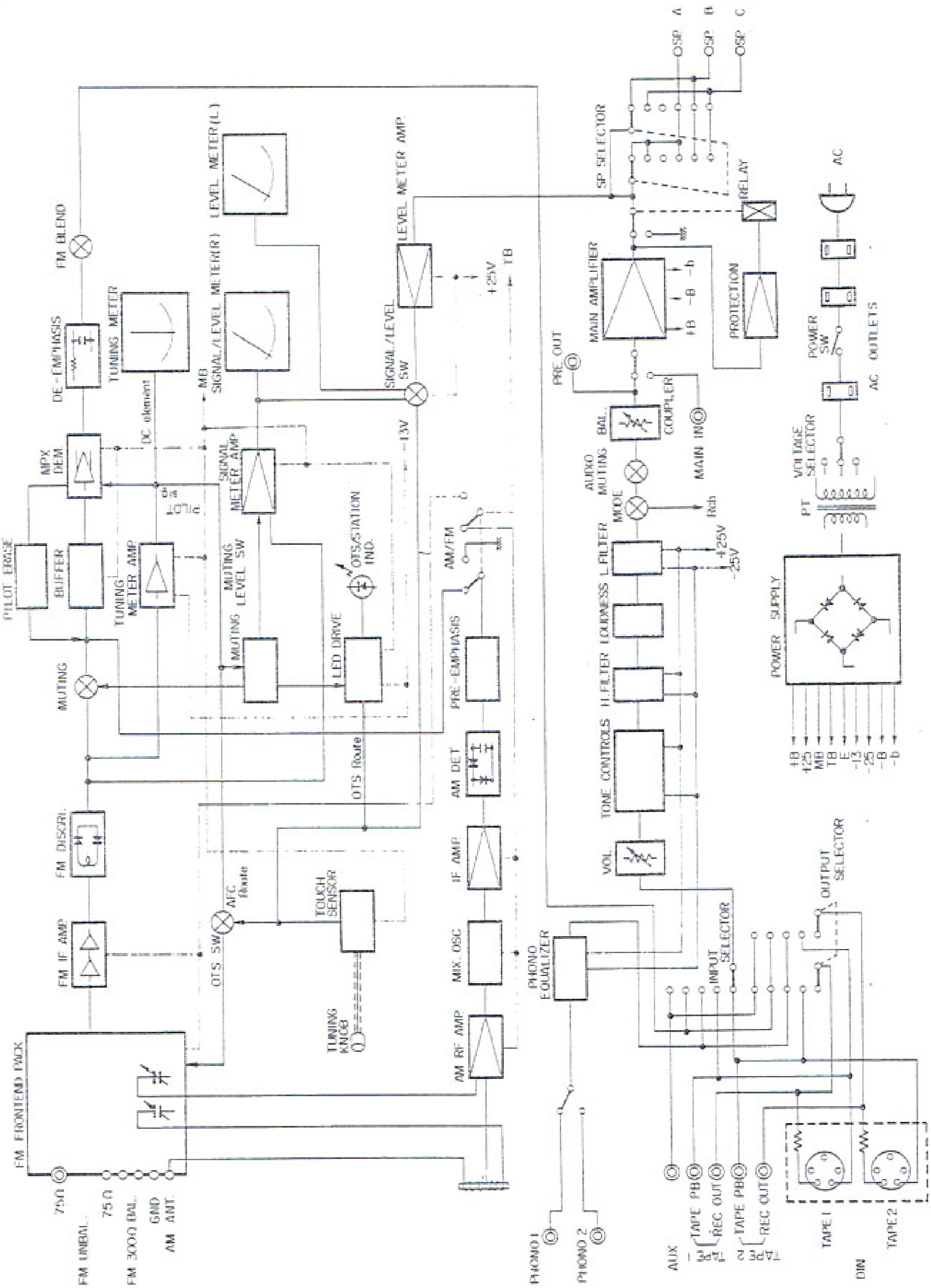


RIAA DEVIATION

T.H.D. V. PHONO INPUT

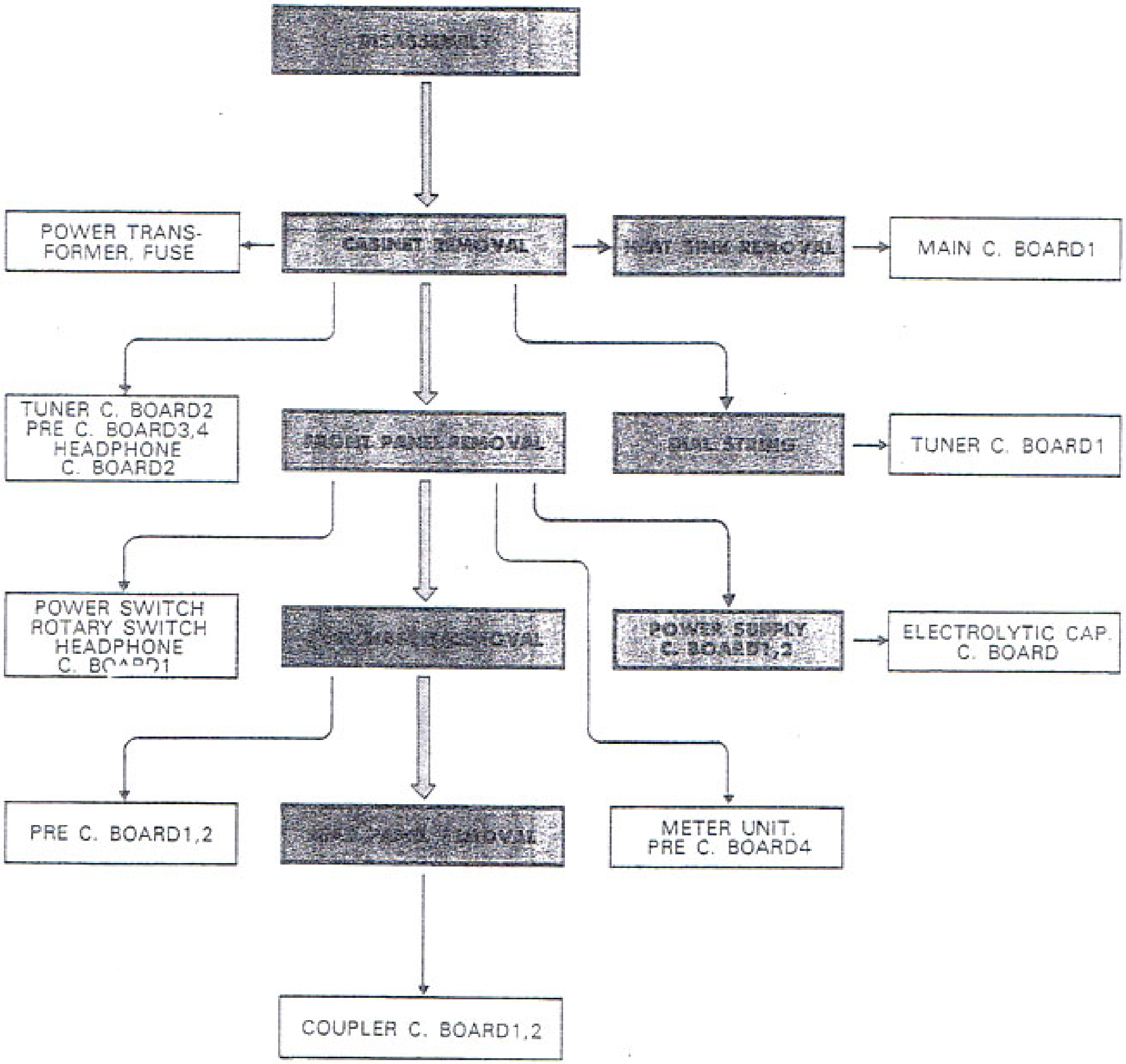


BLOCK DIAGRAM



FLOW CHART FOR DISASSEMBLY PROCEDURES

Disassembly procedures are shown in accordance with U.S. model.



Note

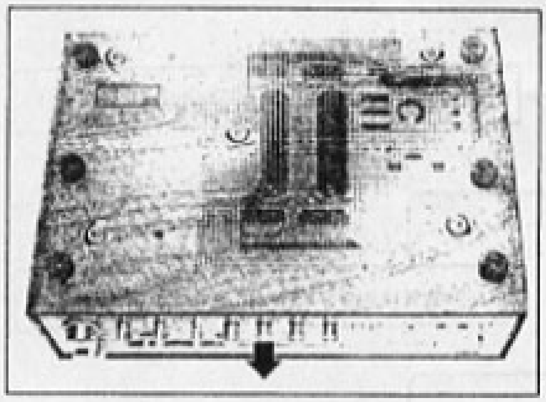
TUNER C. BOARD 2:	FM BLEND, FM MUTING, OTS AND AM-FM SWITCHES
PRE C. BOARD 1:	LOW AND HIGH FILTER SWITCHES, TONE AND LOUDNESS CONTROLS, MODE, REC OUT AND INPUT SELECTORS
PRE C. BOARD 2:	VOLUME AND BALANCE CONTROLS
PRE C. BOARD 3:	AUDIO MUTING SWITCH
HEADPHONE C. BOARD 1:	HEADPHONE JACKS
HEADPHONE C. BOARD 2:	AM-FM INDICATORS
COUPLER C. BOARD 1:	ANTENNA TERMINALS
COUPLER C. BOARD 2:	COUPLER SWITCH AND PIN JACKS
POWER SUPPLY C. BOARD 2:	METER SELECTOR

DISASSEMBLY PROCEDURES

1. CABINET REMOVAL

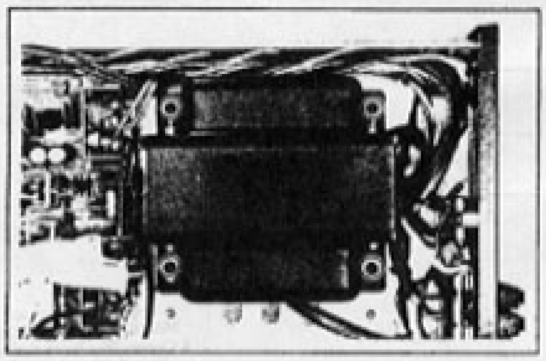
Remove 5 screws, then pull out the chassis in arrow direction.

Since the cabinet used for UK and European models are different from the photo shown below, refer to "EXPLODED VIEW" as shown in page 1 of the PARTS LIST.



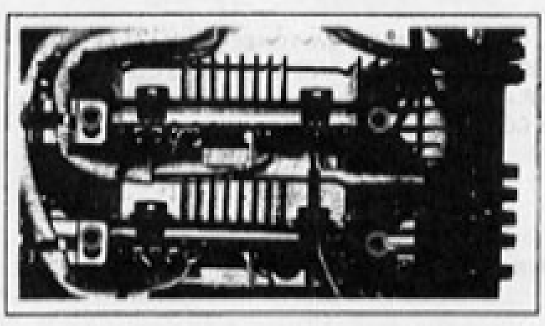
2. POWER TRANSFORMER REMOVAL

Remove 4 screws.

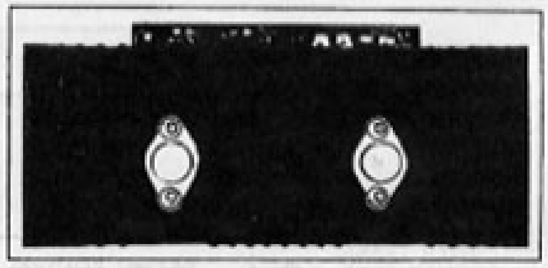


3. HEAT SINK AND MAIN CIRCUIT BOARD 1 REMOVAL

Step 1. Remove 4 screws, then dismantle the heat sink.

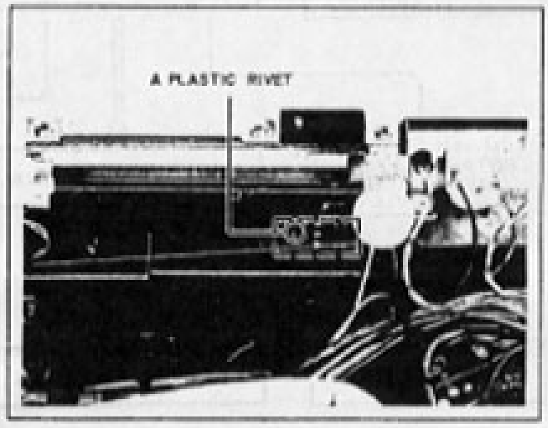


Step 2. Remove 4 screws fixing 2 power transistors.



4. HEADPHONE CIRCUIT BOARD 2 REMOVAL

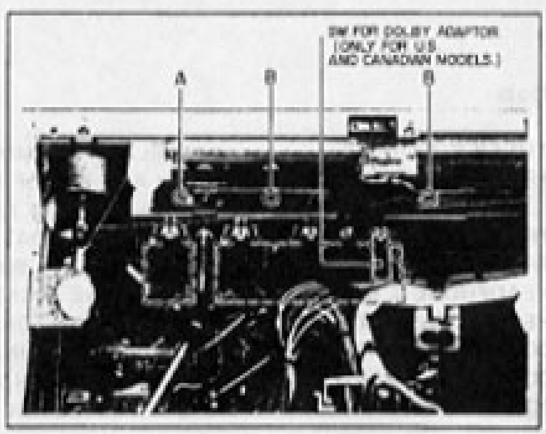
Remove a plastic revet, then detach the Headphone Circuit Board 2 from dial scale.



5. PRE CIRCUIT BOARD 3 AND TUNER CIRCUIT BOARD 2 REMOVAL

Screw **A** is for fixing the Pre Circuit Board 3.

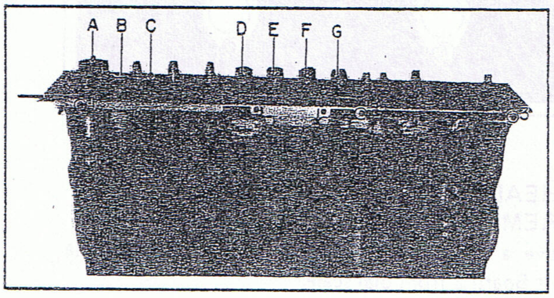
Screws **B** are for fixing the Tuner Circuit Board 2.



6. FRONT PANEL REMOVAL

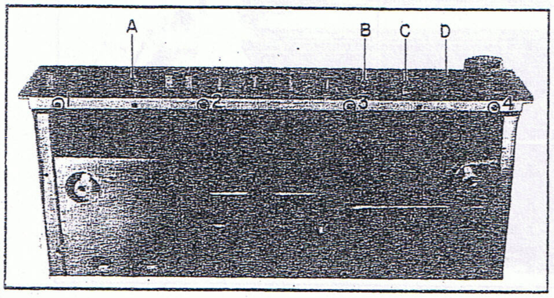
Step 1. 1) Remove 3 screws 1 to 3, and pull off 7 knobs A to G.

2) Insert a hexagonal allen wrench in arrow direction and loosen 2 screws fixing the tuning knob, then withdraw the knob.



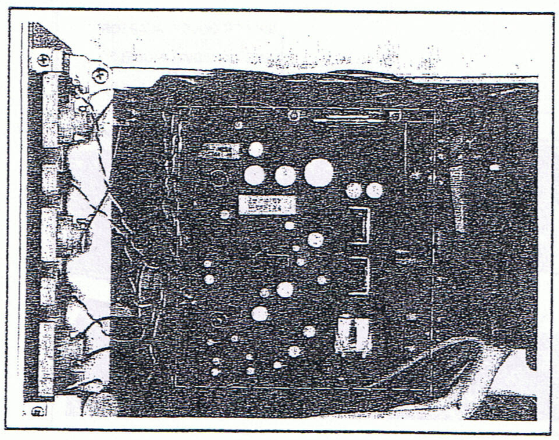
Step 2. 1) Remove 4 screws 1 to 4.

2) Loosen 4 screws A to D fixing each knob with a hexagonal allen wrench, then withdraw the knobs.



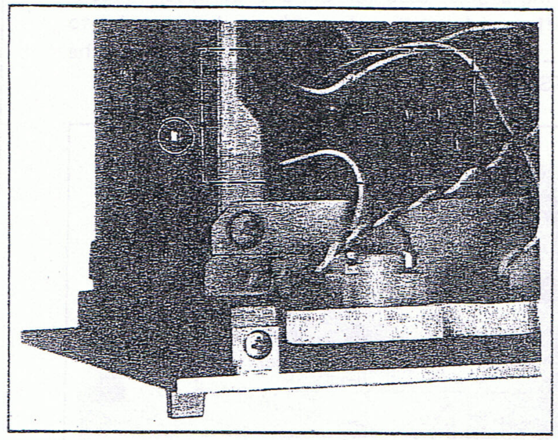
7. POWER SUPPLY CIRCUIT BOARD 1 REMOVAL

Remove 2 screws, then pull off the Power Supply Circuit Board 1 in arrow direction.



8. POWER SUPPLY CIRCUIT BOARD 2 REMOVAL

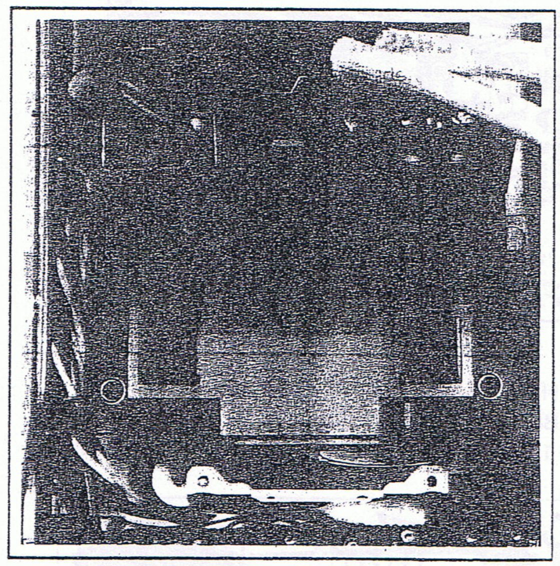
Remove a screw.



9. ELECTROLYTIC CAPACITOR CIRCUIT BOARD REMOVAL

1) Remove 2 screws, then dismantle the holder securing 2 electrolytic capacitors.

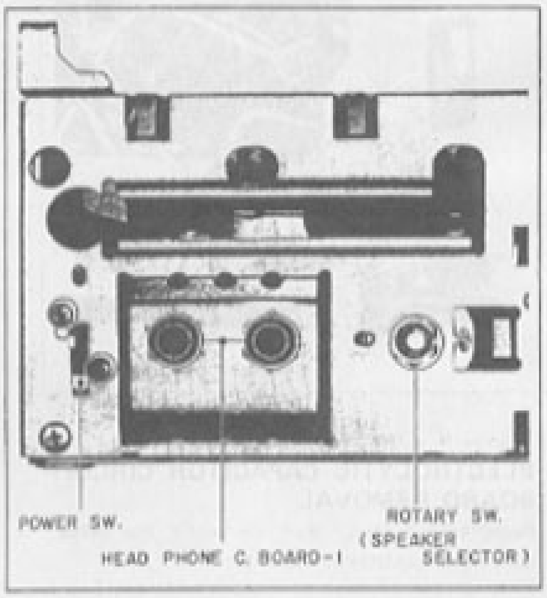
2) Slide up the Electrolytic Capacitor Circuit Board in arrow direction.



DISASSEMBLY PROCEDURES

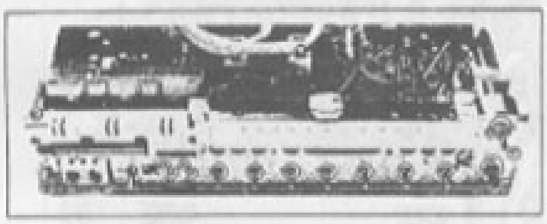
10. POWER SWITCH, HEADPHONE CIRCUIT BOARD 1 AND ROTARY SWITCH REMOVAL

1) Pull off the knob of the power switch.
2) Remove 2 screws and 3 hexagonal nuts.



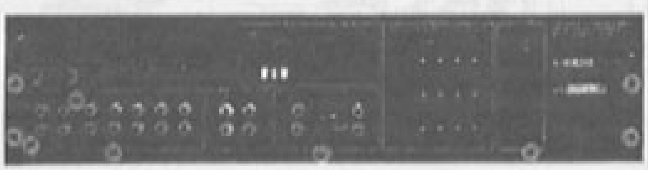
11. SUB-CHASSIS REMOVAL

1) Pull the knobs off.
2) Remove 8 screws and 9 hexagonal nuts.

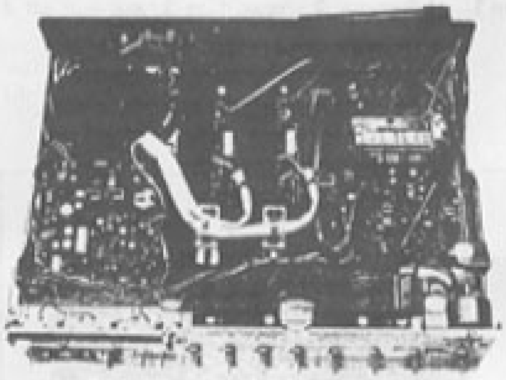


12. REAR PANEL REMOVAL

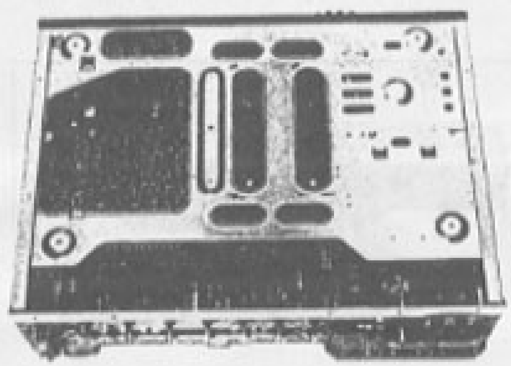
Remove 9 screws.



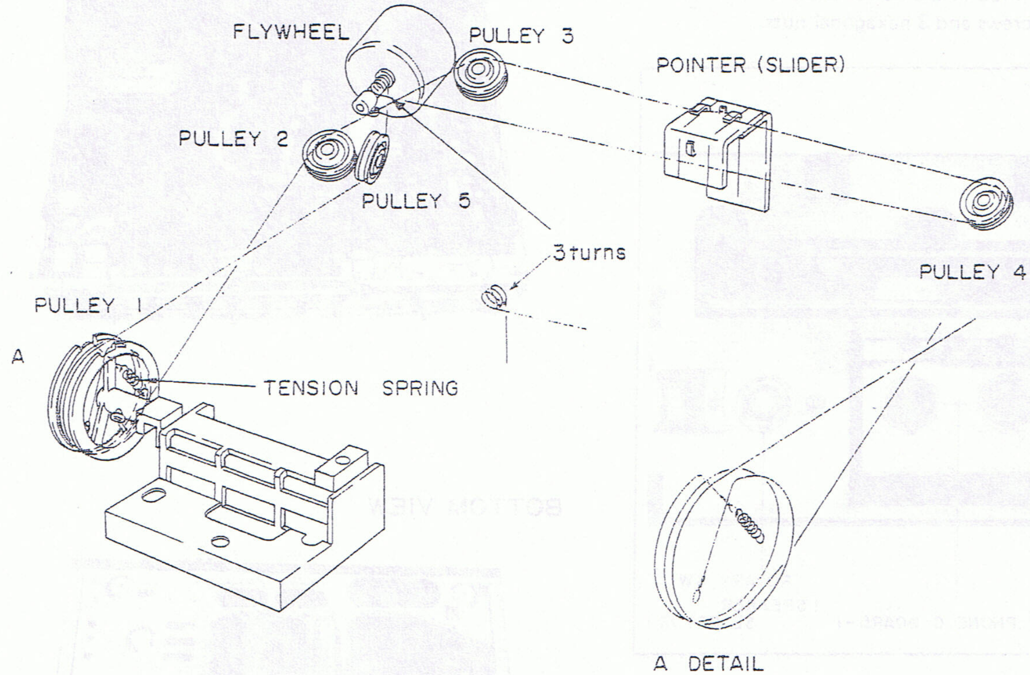
TOP VIEW

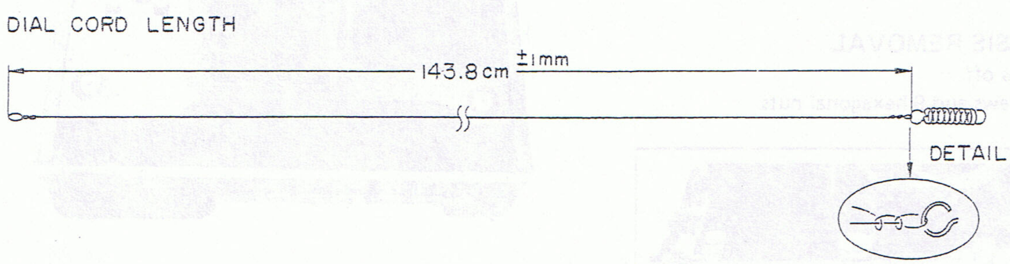


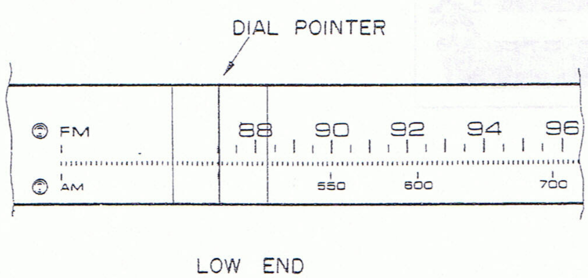
BOTTOM VIEW



DIAL CORD STRINGING





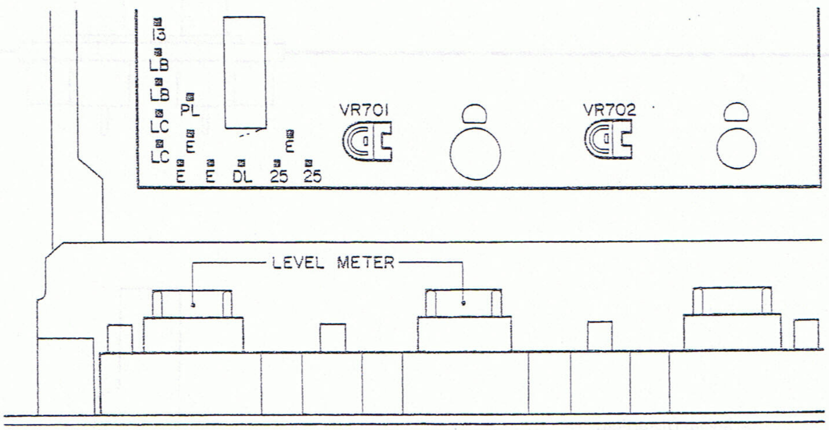


After stringing the dial cord, turn the tuning knob fully counterclockwise and set the pointer to lower end indication of the scale as illustrated above. Then hook the string to the pointer assembly and lock by painting.

ADJUSTMENT

ADJUSTMENT OF LEVEL METER

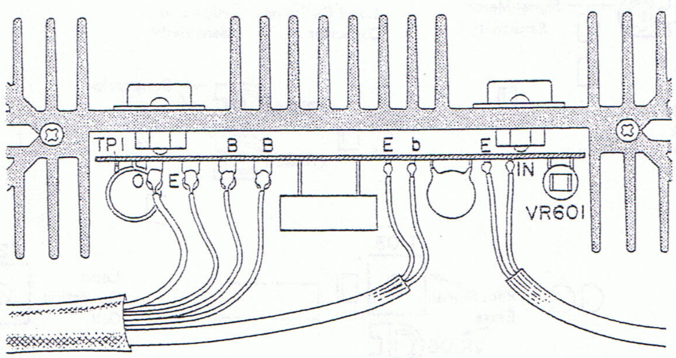
ADJUSTING POINTS



ITEM	AD-JUSTING POINTS	CON-NECTING POINT	EQUIPMENT	METHOD	INDI-CATION
LEVEL METER	VR-701 VR-702	–	50W/8Ω (1kHz)	Turn VR-701, 702 so that the wattage becomes rated value as shown on right hand side.	50W (±1m/m)

ADJUSTMENT OF MAIN C.BOARD

ADJUSTING POINTS



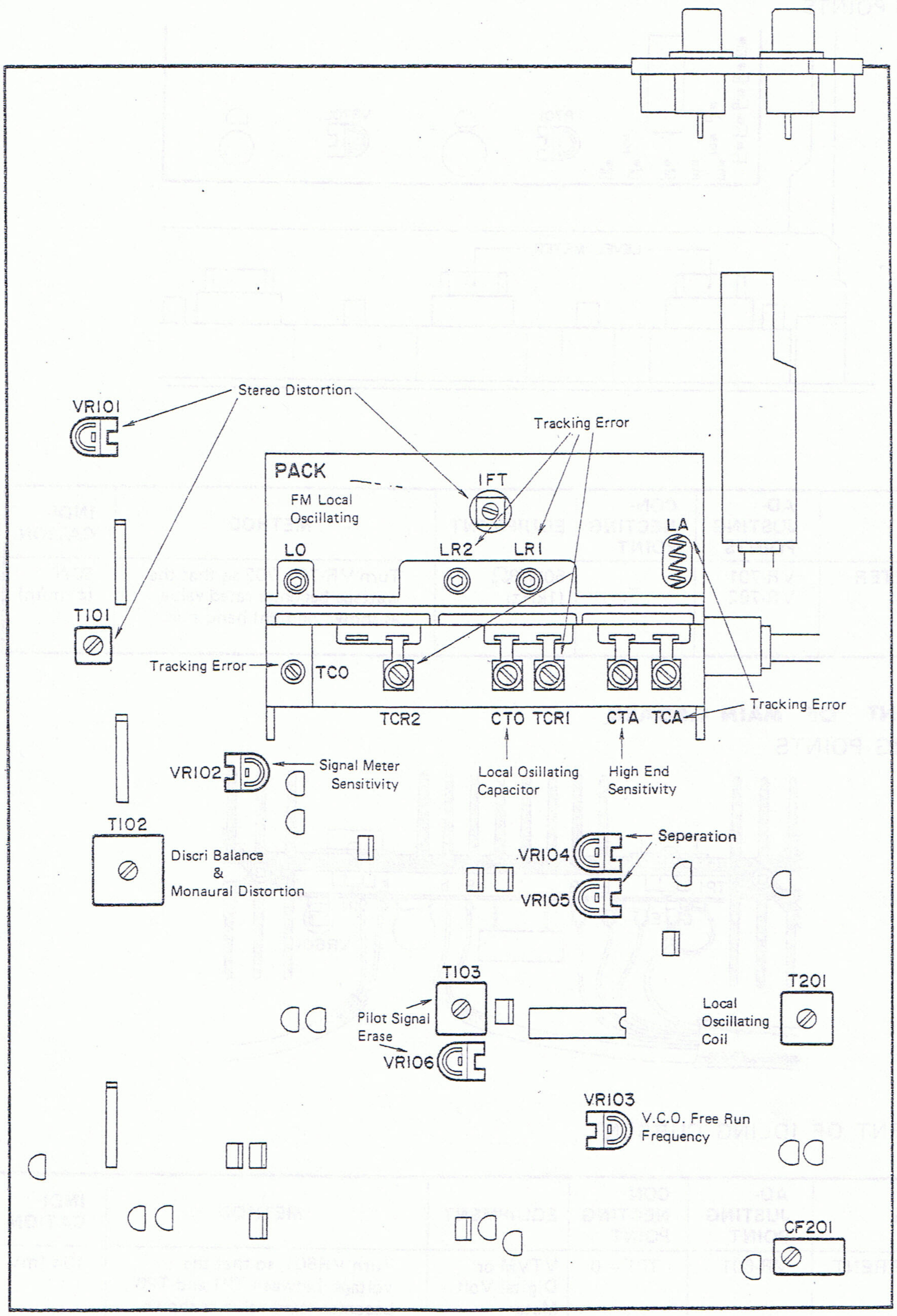
ADJUSTMENT OF IDLING CURRENT

ITEM	AD-JUSTING POINT	CON-NECTING POINT	EQUIPMENT	METHOD	INDI-CATION
IDLING CURRENT	VR-601	TP1 – 0	VTVM or Digital Volt Meter	Turn VR601, so that the voltage between TP1 and TP0 becomes rated value as shown on right hand side.	10±1mV

ADJUSTMENT

ADJUSTMENT OF TUNER C.BOARD

ADJUSTING POINTS



ADJUSTMENT

ADJUSTMENT OF TRACKING ERROR OF FM SECTION

Step	ITEMS	ADJUST-ING POINTS	CON-NECTING INPUT	EQUIPMENT	METHOD	RE-MARKS
1	POINTER OF THE DIAL	Pointer	FM Ant.	FM SG 98MHz 60dBμ	Tune the receiver to SG, then loosen the pointer from the dial string and set the pointer to 98MHz of the scale.	±1mm or less
2	HIGH END TRACKING ERROR CONFIRMATION		FM Ant.	FM SG 108MHz 60dBμ	Tune the receiver to SG, then confirm so that the pointer is on 108MHz of the scale.	±2mm or less
3	TRACKING ERROR TRIMMING (Only when proper confirmation cannot be made by step 2, proceed to step 3.)	Pointer	FM Ant.	FM SG 88MHz to 108MHz 60dBμ	Reset the pointer, so that the pointer is on within allowance in all range as shown on right hand side.	±2mm or less
4	TRACKING ERROR AD-JUSTING (Only when proper adjustment cannot be made by step 3, proceed step 4.)	TCO (Pack)	FM Ant.	FM SG 98MHz 108MHz 60dBμ	Adjust error by the pointer and TCO alternately. 98MHz – pointer 108MHz – TCO	

ADJUSTMENT OF TRACKING ERROR OF AM SECTION

ADJUST AM SECTION AFTER ADJUSTMENT OF FM SECTION MADE CORRECTLY.

Step	ITEMS	AD-JUSTING POINTS	CON-NECTING POINTS	EQUIPMENT	METHOD	RE-MARKS
1	LOCAL OSCILLATING COIL	T201	Bar Ant.	AM SG 600kHz 80dB/m to 100dB/m	Set the pointer to 600kHz of the scale, then turn the core of T201 slowly, so that the signal meter swings to the maximum.	
2	LOW END SENSITIVITY	Core of bar ant.	Bar Ant.	AM SG 600kHz 60dB/m	Turn the cord of the bar antenna coil, so that the signal meter swings to the maximum.	
3	LOCAL OSCILLATING CAPACITOR	CT0 (Pack)	Bar Ant.	AM SG 1350kHz 80dB/m to 100dB/m	Set the pointer to 1350kHz of the scale, then turn the trimmer capacitor CT0, so that the signal meter swings to the maximum.	
4	HIGH END SENSITIVITY	CTA (Pack)	Bar Ant.	AM SG 1350kHz 60dB/m	Turn the trimmer capacitor CTA, so that the signal meter swings to the maximum.	
5	REPEAT			AM SG 600kHz 1350kHz 60dB/m	The above adjustments are necessary to repeat 2 to 3 times to minimize tracking error and differential of sensitivity between 600kHz and 1350kHz.	Tracking error: ±1.5mm or less
6	MID RANGE CONFIRMATION		Bar Ant.	AM SG 950kHz	Tune the receiver to SG, so that the signal meter swings to the maximum, then confirm so that the pointer is on 950kHz of the scale.	±2mm or less

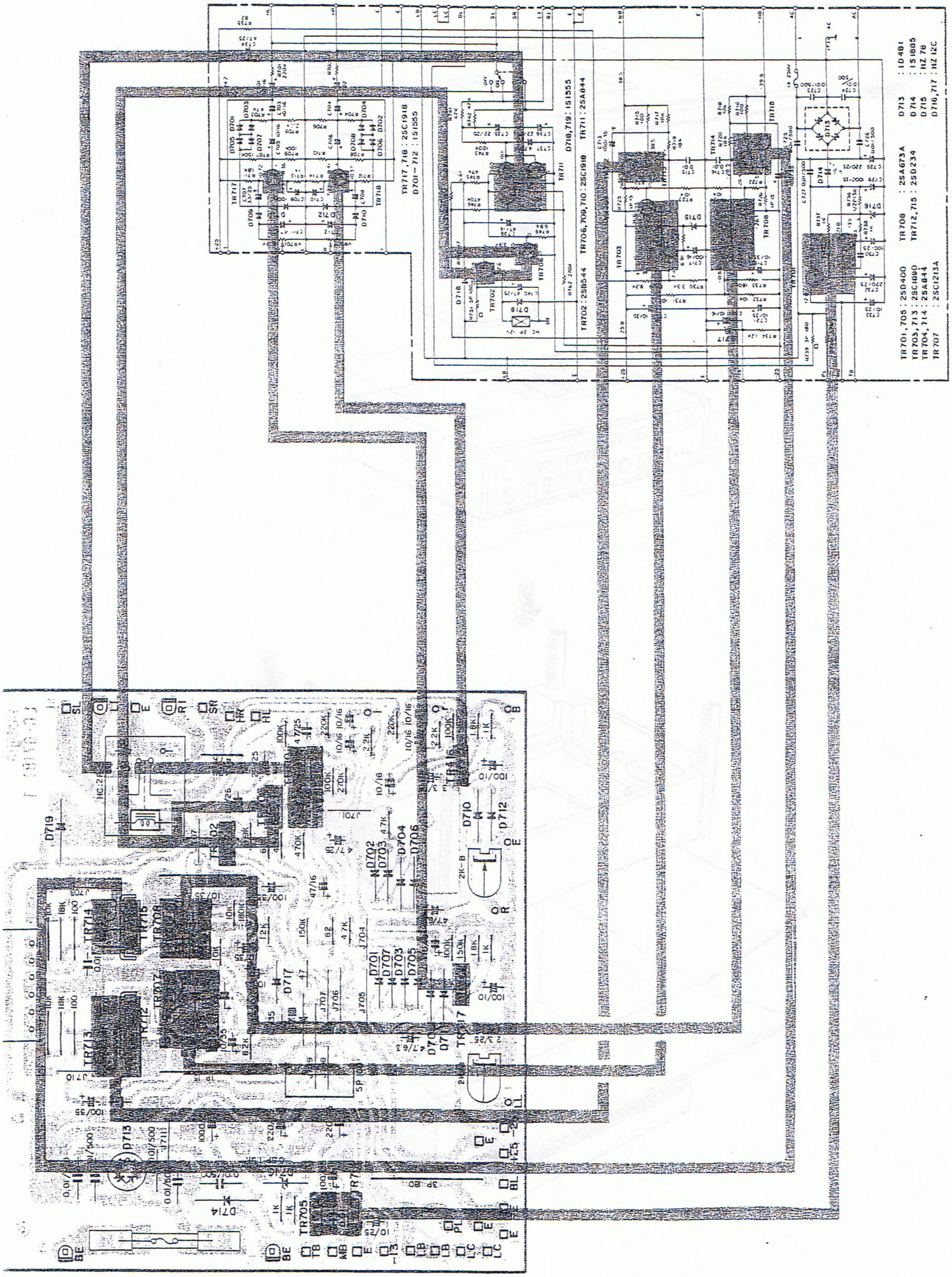
ADJUSTMENT

ADJUSTMENT OF TUNER CIRCUIT BOARD

Step	ITEMS	ADJUST-ING POINT	CON-NECTING INPUT	POINT OUTPUT	EQUIPMENT	METHOD	INDI-CATION (Typical)
1	DISCRI. BALANCE	T102 (up-side core)	FM Ant.			Turn the pointer to detuning point near by 98MHz, and turn the up-side core of the T102 so that the tuning meter reads zero. Note: Before adjusting, confirm that the meter reads zero when the power SW. is off.	0(zero)
2	TUNING POINT SETTING	Tuning knob	FM Ant.		FM SG 98MHz 60dBμ	Tune the knob so that the tuning meter reads center.	
3	VCO FREE RUN FREQUENCY	VR103	FM Ant.	19kHz TP	FM SG -do.- 0% (mod.) Frequency Counter (FC.)	Adjust VR103 so that FC. reads 19kHz. Confirm that FM SG is set to mono.	19kHz ±20Hz (±5Hz)
4	MONAURAL DISTORTION	T 102 (bottom-side core)	FM Ant.	Output (L or R)	-do.- FM SG mono. 1kHz 100%	Turn the bottom-side core of the T102 so that the distortion becomes minimum.	−60dB or less (−64dB)
5	STEREO DISTORTION	T101 VR 101 IFT (Pack)	FM Ant.	Output (L)	FM SG 98MHz 60dBμ L+R stereo 1kHz 100% Oscilloscope VTVM Distortion Meter (DM.) LPF (17kHz	Turn the core of the T101 IFT (Pack), and adjust VR101 so that the distortion becomes minimum.	−56dB or less (−62dB)
6	SEPARATION	VR104 VR105	FM Ant.	Output (L, R)	same as step 5 (except DM)	Adjust VR104 (SEP. BAL) so that the both seperations of L to R and R to L become approximately equal, then adjust VR105 (SEP.) so that the seperation becomes to the maximum. These adjustments should be repeated two or three times.	50dB or more (55dB)
7	PILOT SIGNAL ERASE	VR106 T103	FM Ant.	Output (L, R)	FM SG 98MHz 60dBμ stereo (MD) pilot: 9%	Connect VTVM and OSC to the Output terminal, and adjust VR106 and T103 so that carrier level becomes minimum.	60dB or more (both ch.)
8	SIGNAL METER SESITIVITY	VR102	FM Ant.		FM SG 98MHz 80dBμ 0%	Adjust VR102 so that the signal meter swings 90.	90

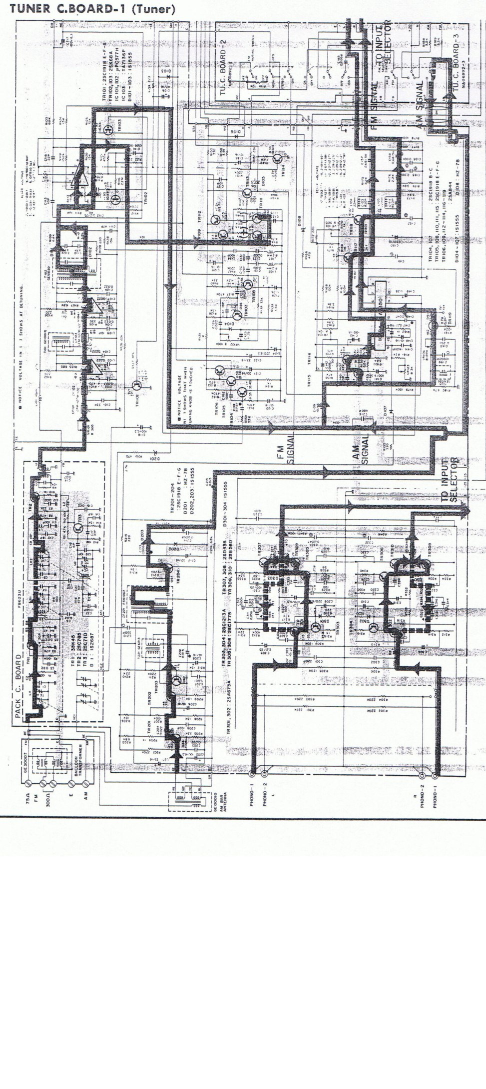
CIRCUIT BOARDS

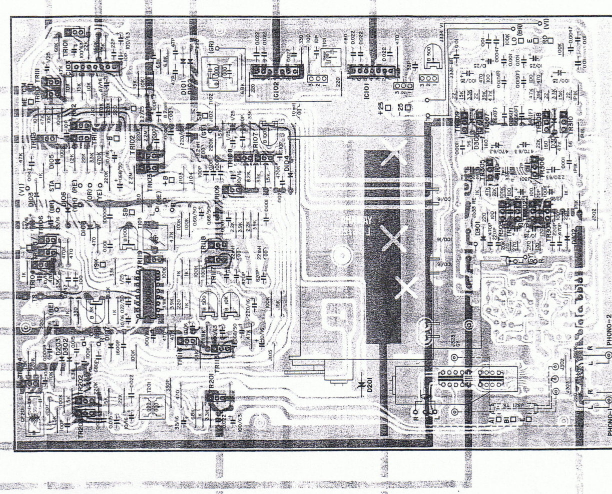
POWER SUPPLY C. BOARD-1



CIRCUIT BOARDS

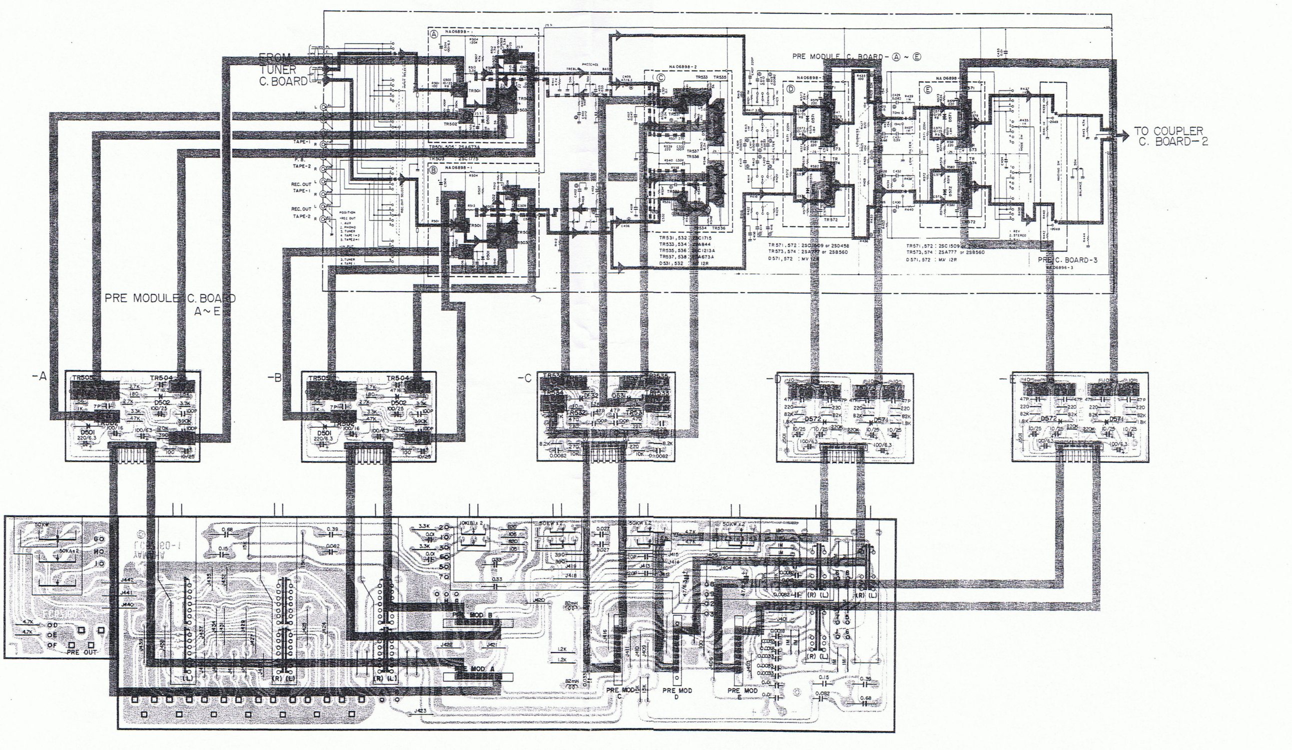
TUNER C.BOARD-1 (Tuner)





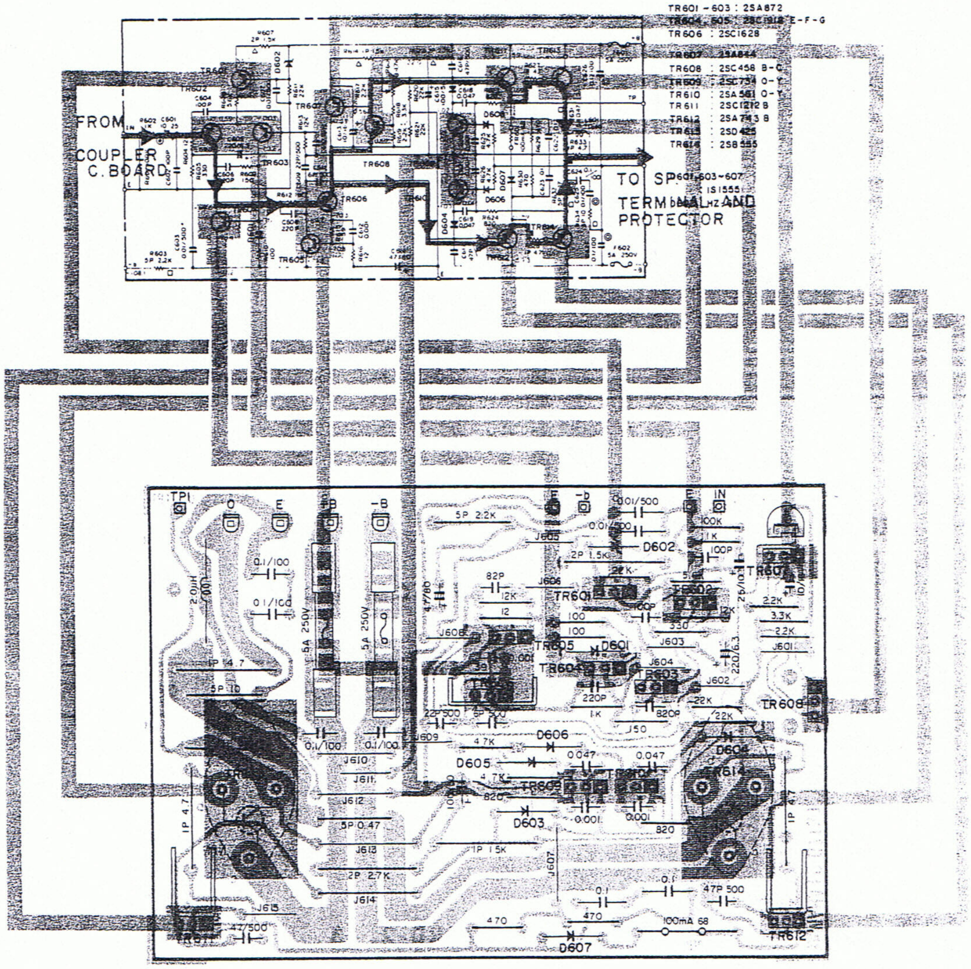
CIRCUIT BOARDS

PRE C.BOARD-1,2 (Equalizer and Tone Control Amp.)

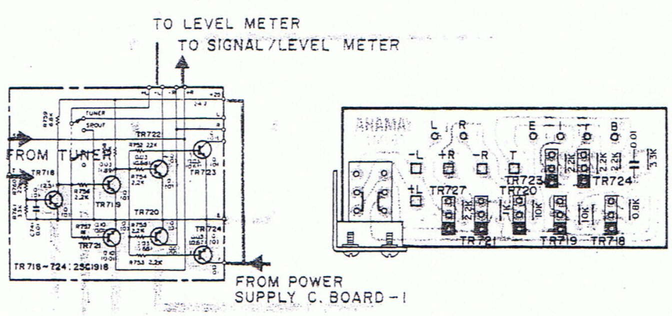


CIRCUIT BOARDS

MAIN C.BOARD

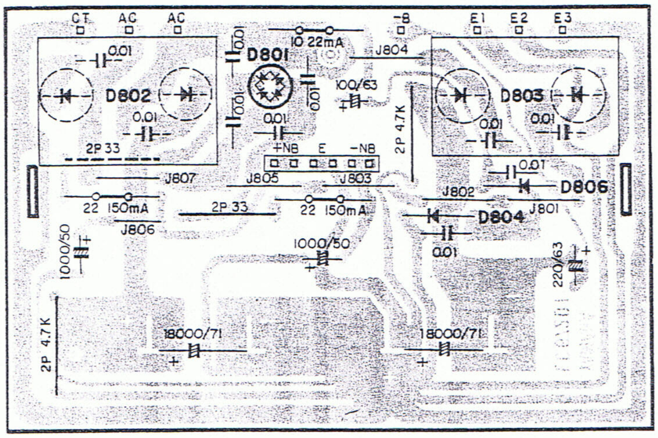


POWER SUPPLY C.BOARD-2

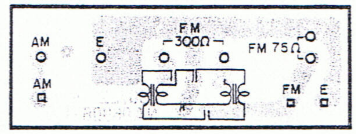


CIRCUIT BOARDS

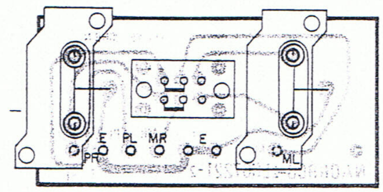
ELECTROLYTIC CAP. C. BOARD



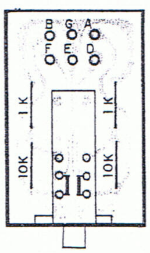
COUPLER C.BOARD-1



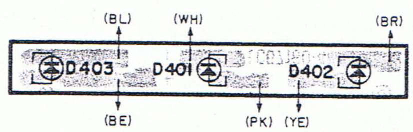
COUPLER C.BOARD-2



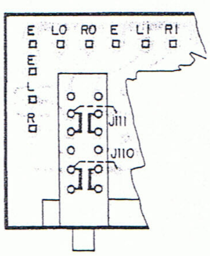
PRE C.BOARD-3



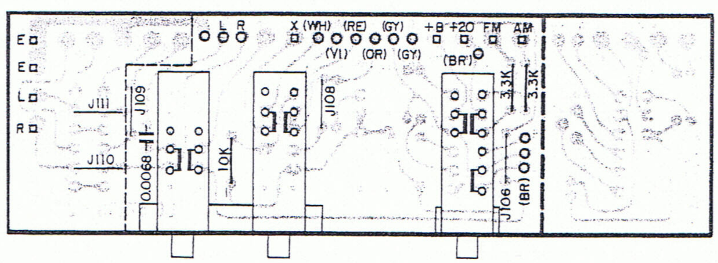
PRE C.BOARD-4



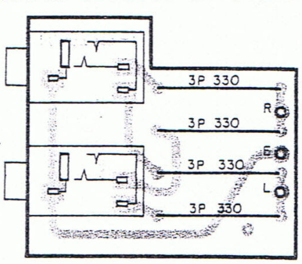
TUNER C.BOARD-2. -3



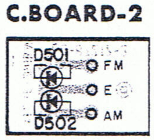
(Only for US. and Canadian models.)



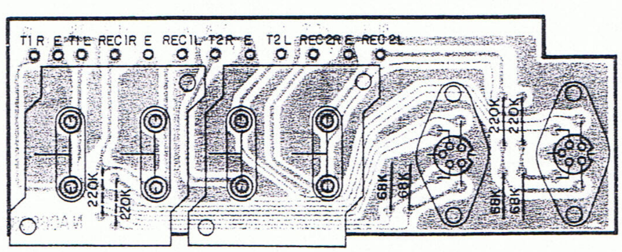
HEAD PHONE C.BOARD-1



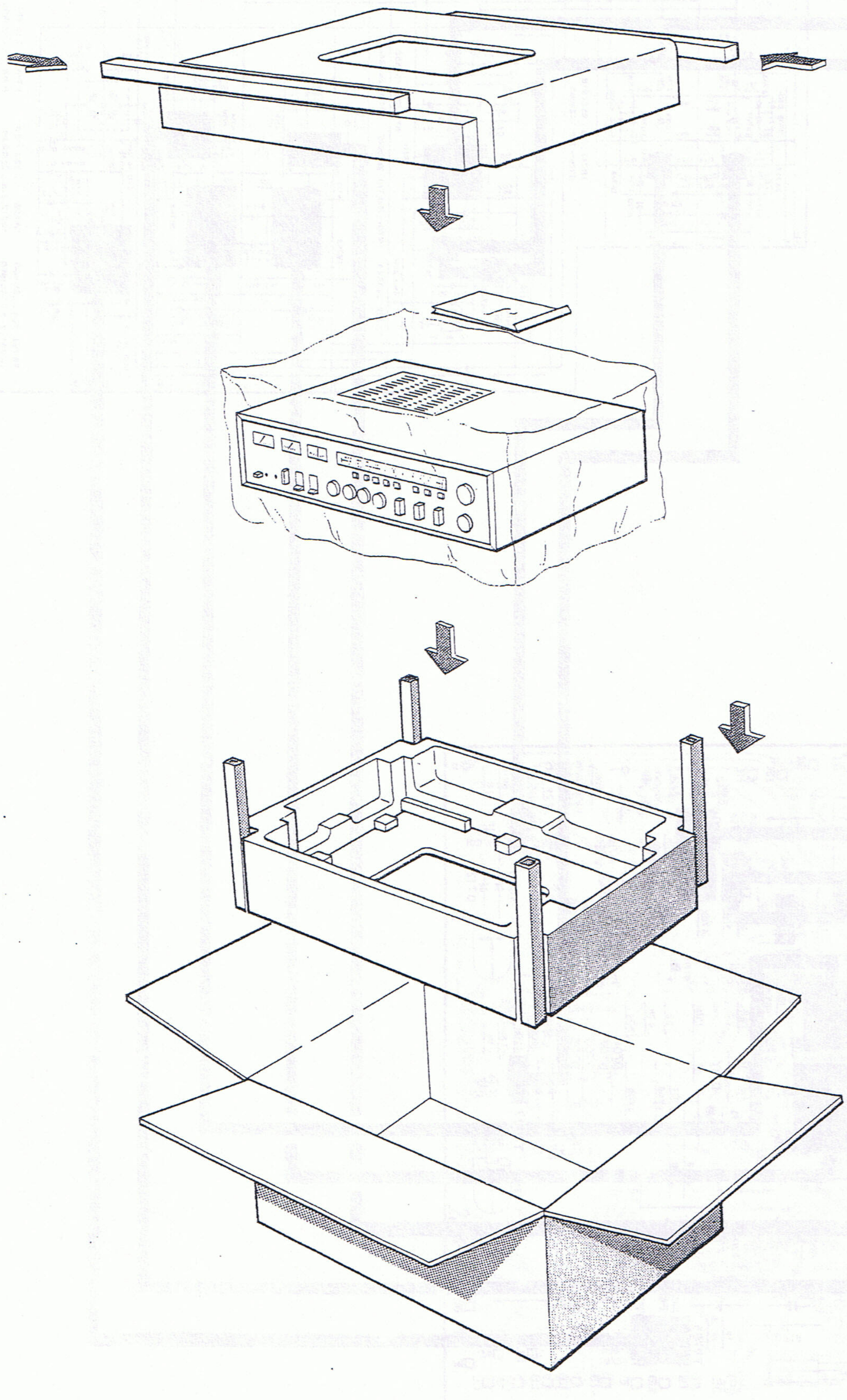
HEAD PHONE C.BOARD-2



DIN C.BOARD (Only for European models)



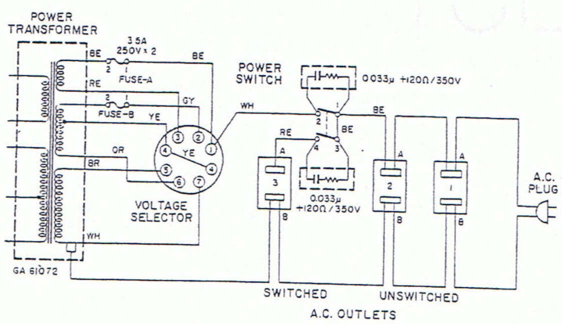
PACKAGE



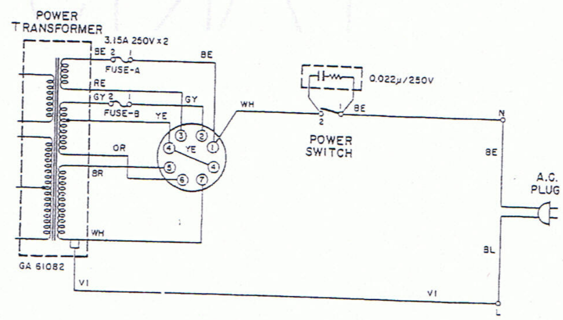
SCHEMATIC DIAGRAM BY EXPORT ZONE

POWER SUPPLY CIRCUIT

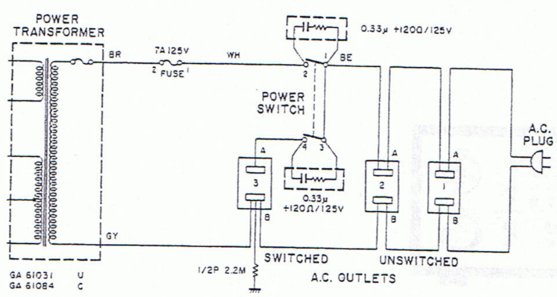
GENERAL EXPORT model



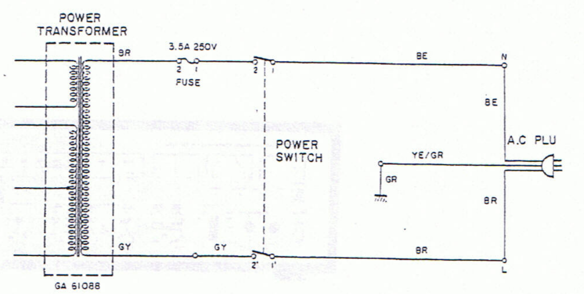
EUROPEAN model



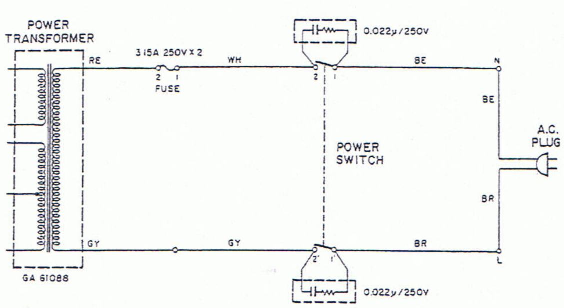
US & CANADIAN model



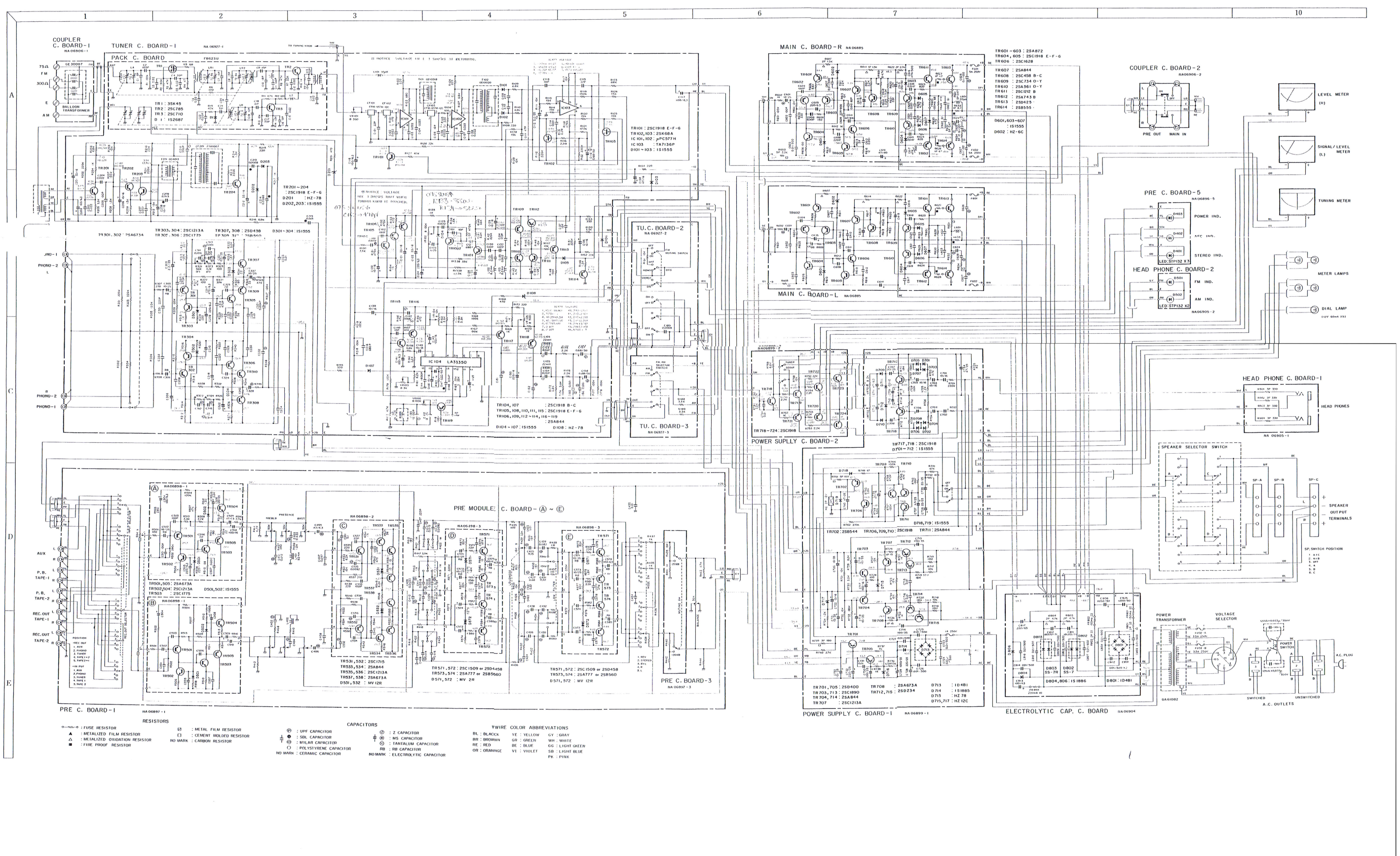
AUSTRALIAN model



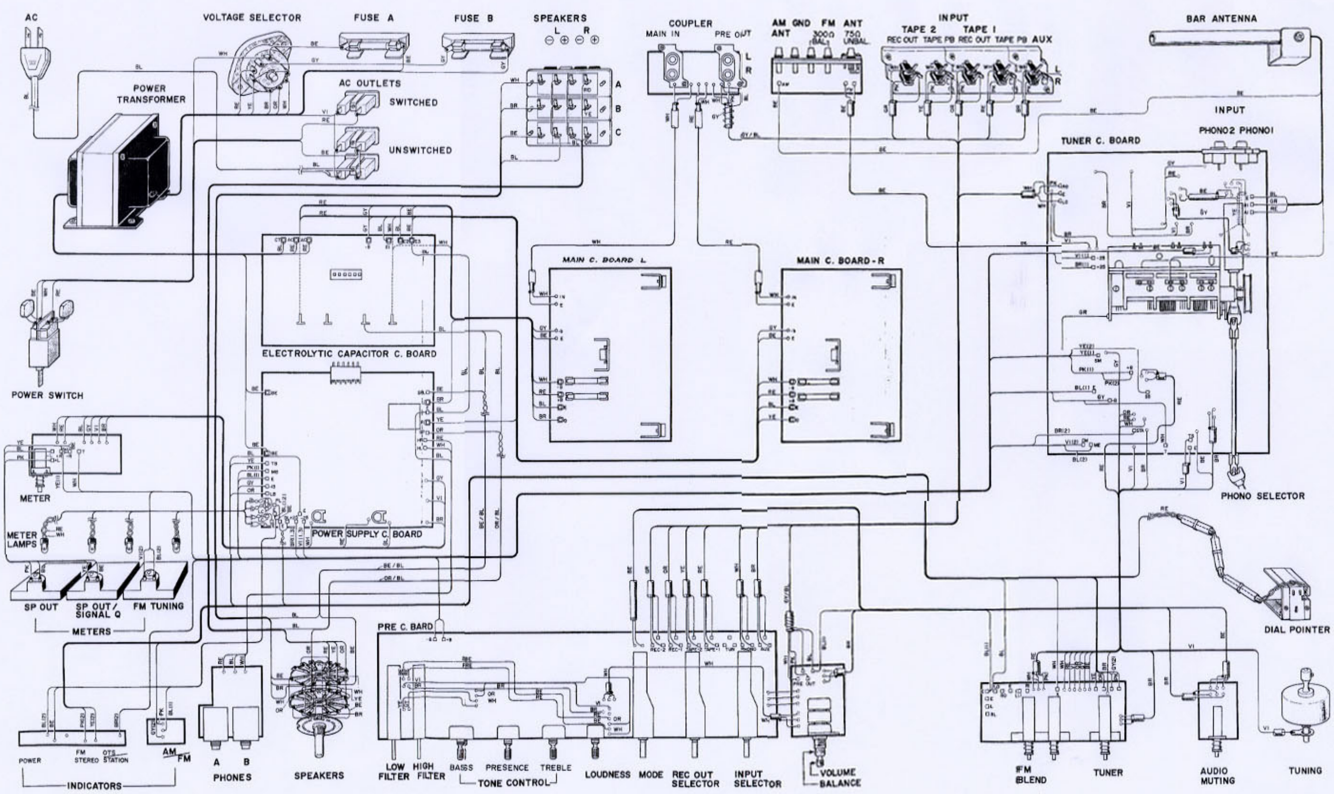
UK model



SCHEMATIC DIAGRAM



WIRING

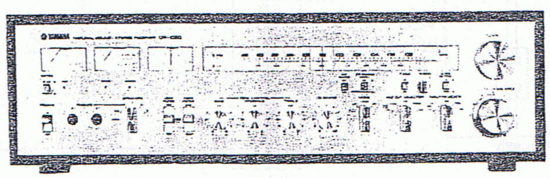


AC
VOLTAGE SELECTOR
FUSE A
FUSE B
SPEAKERS
L R
COUPLER
MAIN IN
PRE OUT
AM ANT
GND
FM ANT
300Ω BAL
75Ω UNBAL
INPUT
TAPE 2
TAPE 1
REC OUT TAPE PB REC OUT TAPE PB AUX
BAR ANTENNA
POWER TRANSFORMER
AC OUTLETS
SWITCHED
UNSWITCHED
A
B
C
INPUT
PHONO2 PHONO1
TUNER C. BOARD
MAIN C. BOARD L
MAIN C. BOARD - R
ELECTROLYTIC CAPACITOR C. BOARD
POWER SWITCH
METER
METER LAMPS
POWER SUPPLY C. BOARD
PHONO SELECTOR
SP OUT
SP OUT/ SIGNAL Q
FM TUNING
METERS
DIAL POINTER
PRE C. BARD
POWER
FM STEREO
OTS STATION
INDICATORS
AM FM
A B
PHONES
SPEAKERS
LOW FILTER
HIGH FILTER
BASS
PRESENCE
TREBLE
TONE CONTROL
LOUDNESS
MODE
REC OUT SELECTOR
INPUT SELECTOR
VOLUME
BALANCE
FM BLEND
TUNER
AUDIO MUTING
TUNING

PARTS LIST

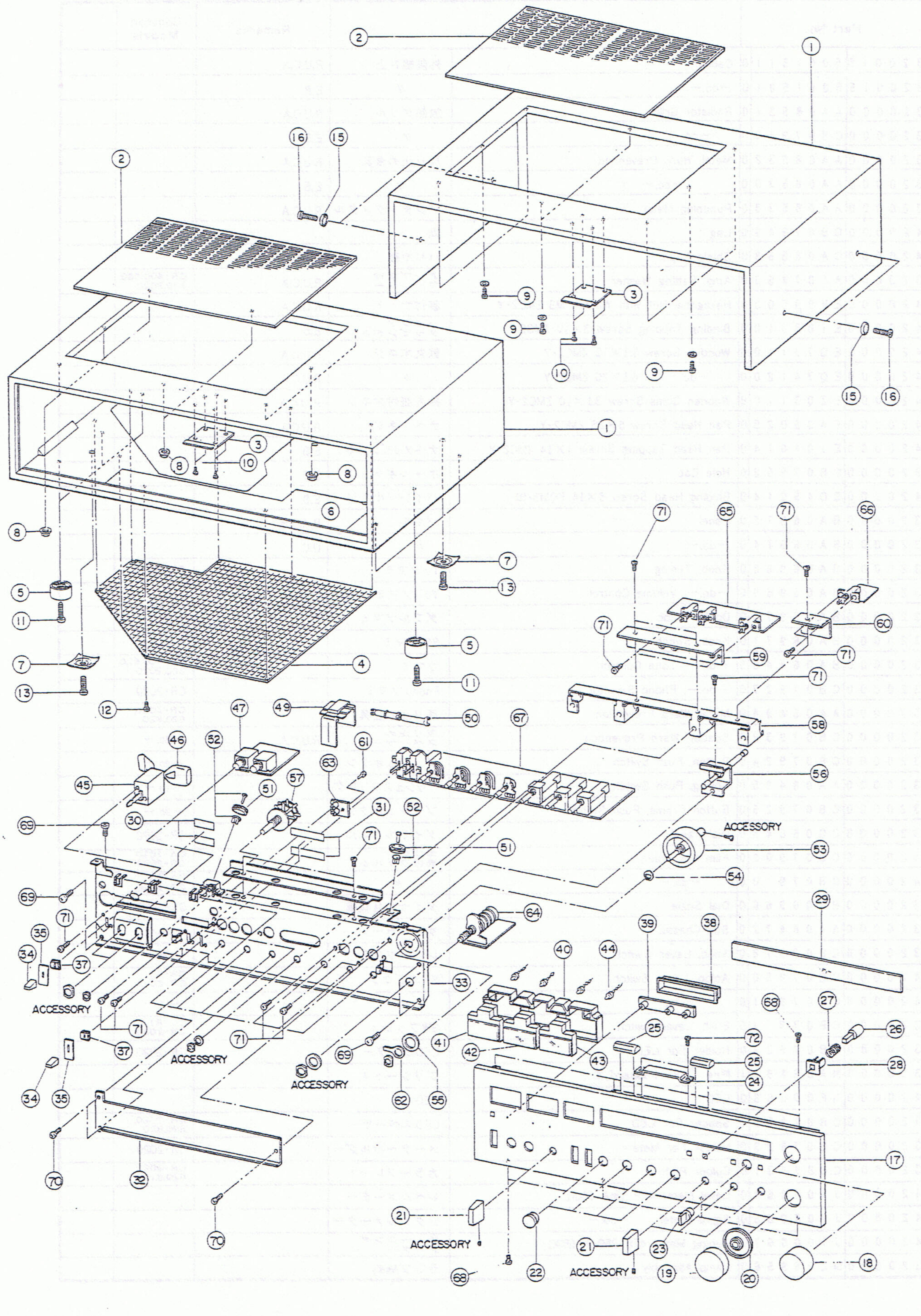
CR-1020

FM/AM STEREO RECEIVER



SINCE 1887 YAMAHA

NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN


ACCESSORY
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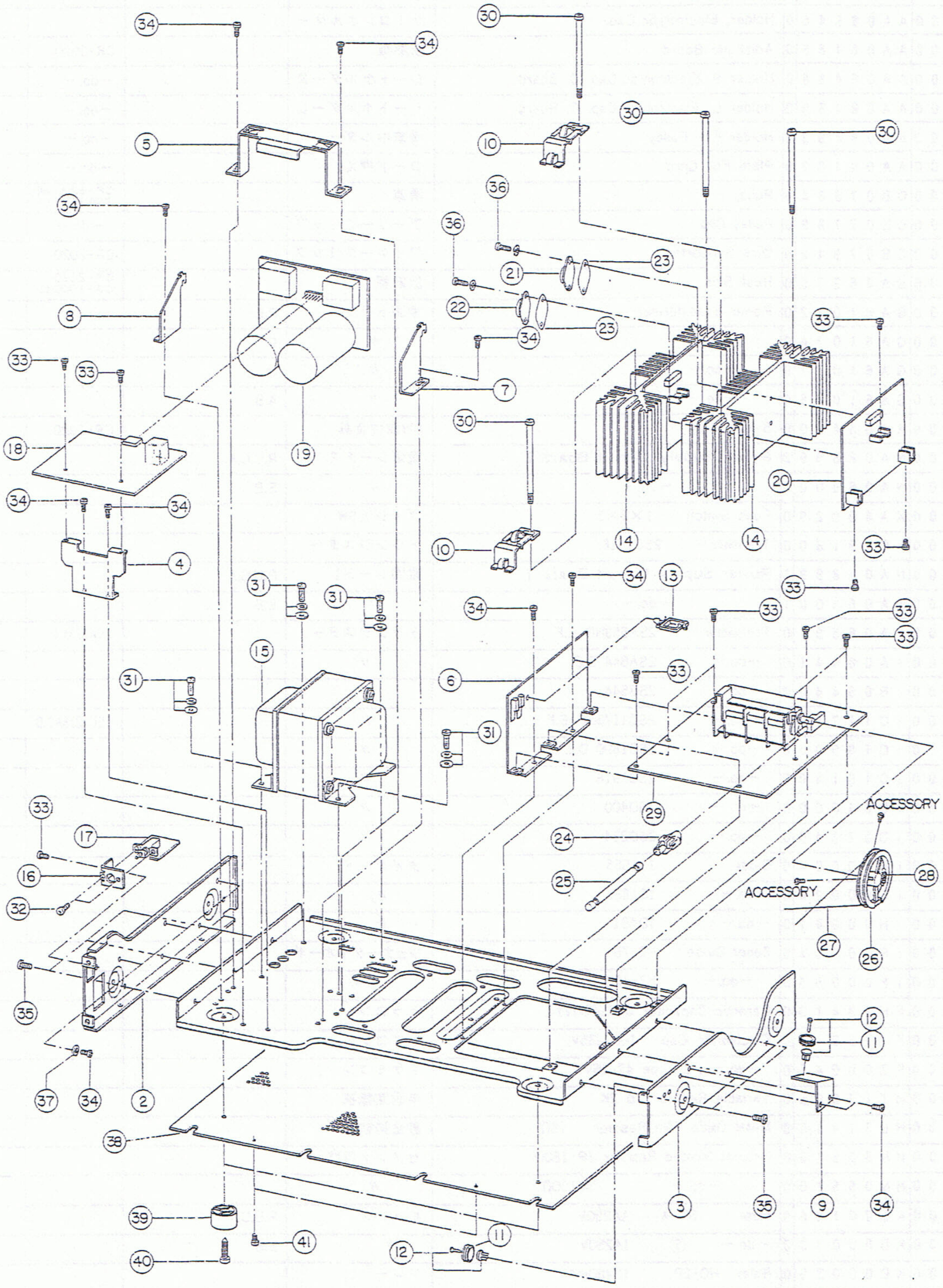
ACCESSORY

Ref. No.	Part No.	Description		Remarks	Common Models	
1	320015 5061511 0	Cabinet	外装組み上り	R,U,C,A		
	320015 5061521 0	—do.—	〃	E,B		
2	320000 AA08531 0	Radiator Grille	放熱グリル	R,U,C,A		
	320000 CB07940 0	—do.—	〃	E,B		
3	320000 AA08532 0	Metal, Warp Prevention	反り止め金具	R,U,C,A		
	320000 AA08530 0	—do.—	〃	E,B		
4	320000 AA08533 0	Punching Metal	パンチングメタル	R,U,C,A		
5	420000 CB07949 0	Leg	脚		CR-2020, 620,820	
6	420000 CA06568 0	Shield Paper	バリヤ紙	R,U,C,A		
7	320000 AA07463 0	Amp. Setting Washer	アンプ取付ワッシャー	R,U,C,A	CR-400,620, 820,2020	
8	420000 EV90003 0	Hexagonal Nut With Washer M3 ZMC2-Y	座付ナット	R,U,C,A		
9	420000 Ei03010 0	Binding Tapping Screw 3×10 ZMC2-Y	バインドタッピングネジ	E,B		
10	420000 EQ73110 0	Wooden Screw 3.1×10 ZMC2-Y	鉄丸木ネジ	R,U,C,A		
11	420000 EQ74120 0	—do.— 4.1×20 ZMC2-Y	〃	R,U,C,A		
12	420000 EZ03110 0	Wooden Cums Screw 3.1×10 ZMC2-Y	鉄丸座付木ネジ	R,U,C,A		
13	420000 EA05025 0	Pan Head Screw 5×25 ZMC2-Y	ナベ小ネジ	R,U,C,A		
14	420000 EJ04014 0	Pan Head Tapping Screw 4×14 ZMC2-Y	ナベタッピングネジ	E,B		
15	320000 CB07952 0	Hole Cap	ホールキャップ	E,B		
16	420000 ED45014 0	Binding Head Screw 5×14 FCM3-BI	バインド小ネジ	E,B		
17	320000 BA06975 0	Panel	パネル	R,A,E,B		
	320000 BA06974 0	—do.—	〃	U,C		
18	320000 BA06968 0	Knob, Tuning	Tuツマミ		CR-2020	
19	320000 BA06969 0	—do.—, Volume Control	Vol ツマミ		—do.—	
20	320000 BA06970 0	Double Knob	ダブルツマミ		—do.—	
21	320000 BA06971 0	Knob, Switch	SWツマミ		—do.—	
22	320000 BA06445 0	—do.—, Tone Control	ツマミ		CR-400,620, 820,2020	
23	320000 CB07927 0	—do.—, Phono Selector	Phonoツマミ		CR-2020	
24	320000 AA08494 0	Metal, Warp Prevention	反り止め金具		CR-2020, 620,820	
25	320000 CB07932 0	Spacer, Warp Prevention	反り止めスペーサー	R,U,C,A	—do.—	
26	320000 CB07924 0	Button, Push Switch	プッシュボタン		—do.—	
27	320000 AA08495 0	Spring, Push Switch	プッシュスプリング		—do.—	
28	320000 CB07925 0	Button Frame, Push Switch	プッシュボタン枠		—do.—	
29	320000 CG06045 0	Dial Panel	ダイヤルパネル		CR-2020	
30	420000 CB07902 0	Film For Aplon	エプロン受けフィルム		CA-1010 CR-2020	
31	420000 CB07910 0	—do.—	〃		CA-R1 CR-2020	
32	320000 BA06966 0	Dial Scale	ダイヤル目盛板		CR-2020	
33	320000 AA08472 0	Sub-Chassis	サブシャーシ		—do.—	
34	320000 CB07978 0	Knob, Lever Switch	レバーツマミ		—do.—	
35	420000 CB07950 0	Aplon, Lever Switch	SWエプロン		CA-R1 CR-2020	
36	420000 CB07951 0	—do.—	〃		—do.—	
37	320000 CB07977 0	Bush, Lever Switch	SWブッシュ		CT-R1 CR-2020	
38	320000 CB07929 0	Holder For LED	LEDホルダー		CR-2020	
39	320000 NA06897 4	**Pre Circuit Board 4**	プリシート4			
A	420000 IiF00068 0	LED	LED			
B	320000 CB07930 0	Spacer For LED	LEDスペーサー		CR-2020, 620,820	
40	320000 CB07923 0	Holder For Meters	メーターホルダー		CR-2020	
A	320000 CB07931 0	Colour Plate	カラープレート		CR-2020, 620,820	
41	420000 Ji00064 0	Level Meter 47B 1mA 650Ω	レベルメーター			
42	420000 Ji00065 0	Signal Meter —do.—	シグナルメーター			
43	420000 Ji00067 0	Tuning Meter 47B 250μA 650Ω	チューニングメーター			
44	320000 MZ06956 0	Lamp Assembly	ランプAss'y			

Ref. No.	Part No.			Description		Remarks	Common Models
45	420000	KA20063	0	Lever Switch	パワースイッチ	R.U.C	
	420000	KA20068	0	—do.—	〃	E	
	420000	KA20069	0	—do.—	〃	B.A	
46	420000	FZ00054	0	Spark Killer DC500V AC380V 0.033μ+120Ω	スパーク キラーコン	R	
	420000	FZ00011	0	—do.— 0.033μ+120Ω	〃	U	
	420000	FZ00069	0	—do.— 0.022μ	〃	E.B	
	420000	FZ00095	0	—do.— 0.33μ+120Ω	〃	C	
A	420000	CB07215	0	Cover For Capacitor 820826	コンデンサー カバー	R.U.B.E	
	420000	CB07985	0	—do.— 590652a	〃	C	
47	320000	NA06905	1	**Headphone Circuit Board 1**	ヘッドフォーン シート1		
A	420000	LB38052	0	Phone Jack LJ190-1-2	フォーンジャック		
B	420000	HM53533	0	Cement Molded Resistor 3W330Ω	セメント抵抗		
48_1	320000	AA08486	0	Dial Pointer Rail	ダイヤル 指針レール		
49	320000	NB07870	0	Dial Pointer Unit	ダイヤル指針		
A	420000	JB00051	0	Pilot Lamp UL 12V 60mA	パイロットランプ		
B	320000	AA07367	0	Cover For Pointer	指針カバー		CR-400, 620,820
C	320000	CB06895	0	Pointer	ダイヤル指針		CR-620, 820,2020
D	320000	CB06855	0	Holder, Dial Pointer	指針ホルダー		CR-400, 620,820
E	320000	CB06860	0	Colour Plate	指針カラー プレート		—do.—
F	420000	ED02005	0	Binding Head Screw 2×5 ZMC2-Y	バインド小ネジ		
50	320000	CB07928	0	Lead Pipe	リードパイプ		CR-2020
51	320000	CB07584	0	Wheel	滑車		[illegible]
52	320000	CB07789	0	Pulley Clip	プーリークリップ		—do.—
53	320000	NB07814	0	Tuning Unit	チューニング ユニット		CR-820, 2020
54	320000	CB07788	0	Isolation Bush	絶縁ブッシュ		CT-1010 [illegible]
55	420000	CA06515	0	Isolation Fiber	絶縁ファイバー		—do.—
56	320000	AA08476	0	Shaft Unit, Selector	シャフトユニット		CR-2020
57	420000	KA50102	0	Rotary Switch Y-246W	ロータリースイッチ		
58	320000	AA08475	0	Switch Stay	SWステイ		CR-2020
59	320000	AA08496	0	Holder L, —do.—	〃 L		
60	320000	AA08492	0	Holder R, —do.—	〃 R		
61	420000	CB06888	0	Plastic Rivet φ3.5	プラスチック リベット		
62	420000	LA00117	0	Lug Terminal φ9.5	アースラグ		
63	320000	NA06905	2	**Headphone Circuit Board 2**	ヘッドフォーン シート2		
A	420000	IF00068	0	LED	LED		
B	320000	CB07930	0	Spacer For LED	LEDスペーサー		
64	320000	NA06897	2	**Pre Circuit Board 2**	プリシート2		
A	420000	HS42018	0	Variable Resistor 50K×2+50K	可変抵抗器		
B	420000	LA00128	0	Lapping Pin	ラッピング端子		
65	320000	NA06527	2	**Tuner Circuit Board 2**	チューナーシート2	R	
	320000	NA06894	2	—do.—	〃	U.C	
	320000	NA06895	2	—do.—	〃	A.E.B	
A	420000	KA80030	0	Push Switch 3×4×3	プッシュスイッチ	R.A.E.B	
	420000	KA80029	0	—do.— 2×4×3	〃	U.C	
	420000	KA80027	0	—do.— 1×4×3	〃		
B	420000	LA00128	0	Lapping Pin	ラッピング端子		
C	420000	FS11368	0	BL Ceramic Capacitor 50V 0.0068μ	SBLコン		
66	320000	NA06897	3	**Pre Circuit Board 3**	プリシート3		
A	420000	KA80027	0	Push Switch 1×4×3	プッシュスイッチ		
67	320000	NA06897	1	**Pre Circuit Board 1**	プリシート1		
A	420000	KA50065	0	Rotary Switch SRZ-V065 NS	ロータリースイッチ		

Ref. No.	Part No.			Description		Remarks	Common Models	
	420000	KA20067	0	Lever Switch 4×3	レバースイッチ			
B	420000	HS41056	0	Variable Resistor B10K×2	可変抵抗器			
	420000	HS41054	0	−do.− CT50K×2	〃			
C	420000	GD90024	0	Coil, Magnetic Shield Type 82mH	コイル			
D	420000	FZ00083	0	Electrolytic Cap., MS 47μ6.3V	MSケミコン			
	420000	FA11318	0	Mylar Cap. 50VMS 0.0018μ	マイラーコン			
	420000	FA11333	0	−do.− 0.0033μ	〃			
	420000	FA11382	0	−do.− 0.0082μ	〃			
	420000	FA11410	0	−do.− 0.01μ	〃			
	420000	FA11412	0	−do.− 0.012μ	〃			
	420000	FA11433	0	−do.− 0.033μ	〃			
	420000	FA11482	0	−do.− 0.082μ	〃			
	420000	FA11515	0	−do.− 0.15μ	〃			
	420000	FA11539	0	−do.− 0.39μ	〃			
	420000	FA11533	0	−do.− 0.33μ	〃			
	420000	FA11427	0	−do.− 0.027μ	〃			
	420000	FA11447	0	−do.− 0.047μ	〃			
	420000	FZ00100	0	Metallized Polyester Film Cap. 0.68μ	〃			
E	420000	LA00128	0	Wire lapping Pin	ラッピング端子			
F	320000	NA06898	0	Pre Module C. Board	プリモジュールシート		CR-2020	
a	420000	FA11382	0	Mylar Capacitor 0.0082μ 50V	マイラーコン			
	420000	FA11510	0	−do.− 0.1μ 50V	〃			
	420000	FZ00098	0	Electrolytic Cap., RB 10μ 25V	RBケミコン			
b	420000	iA06731	0	Transistor 2SA673A C,D	トランジスター			
	420000	iA08441	0	−do.− 2SA844 D,E	〃			
	420000	iC12131	0	−do.− 2SC1213A C,D	〃			
	420000	iC17751	0	−do.− 2SC1775 D,E	〃			
	420000	iC11751	0	−do.− 2SC1175NP E,F	〃		2SC1213A	
	420000	iC15093	0	−do.− 2SC1509 Q,R	〃		2SD438	
	420000	iA07773	0	−do.− 2SA777 Q,R	〃		2SB560	
c	420000	iF00004	0	Diode 1S1555	ダイオード			
d	420000	iF00079	0	Varistor MV-12R	バリスタ			
e	420000	LB60178	0	Connector	コネクター			
68	420000	Ei03008	0	Binding Tapping Screw 3×8 ZMC2-Y	バインドタッピングネジ			
69	420000	Ei04008	0	−do.− 4×8 ZMC2-Y	〃			
70	420000	Ei23006	0	−do.− 3×6 FCrM3-3g	〃			
71	420000	ED03006	0	Binding Head Screw 3×6 ZMC2-Y	バインド小ネジ			
72	420000	Ei03006	0	Binding Tapping Screw 3×6 ZMC2-Y	バインドタッピングネジ			

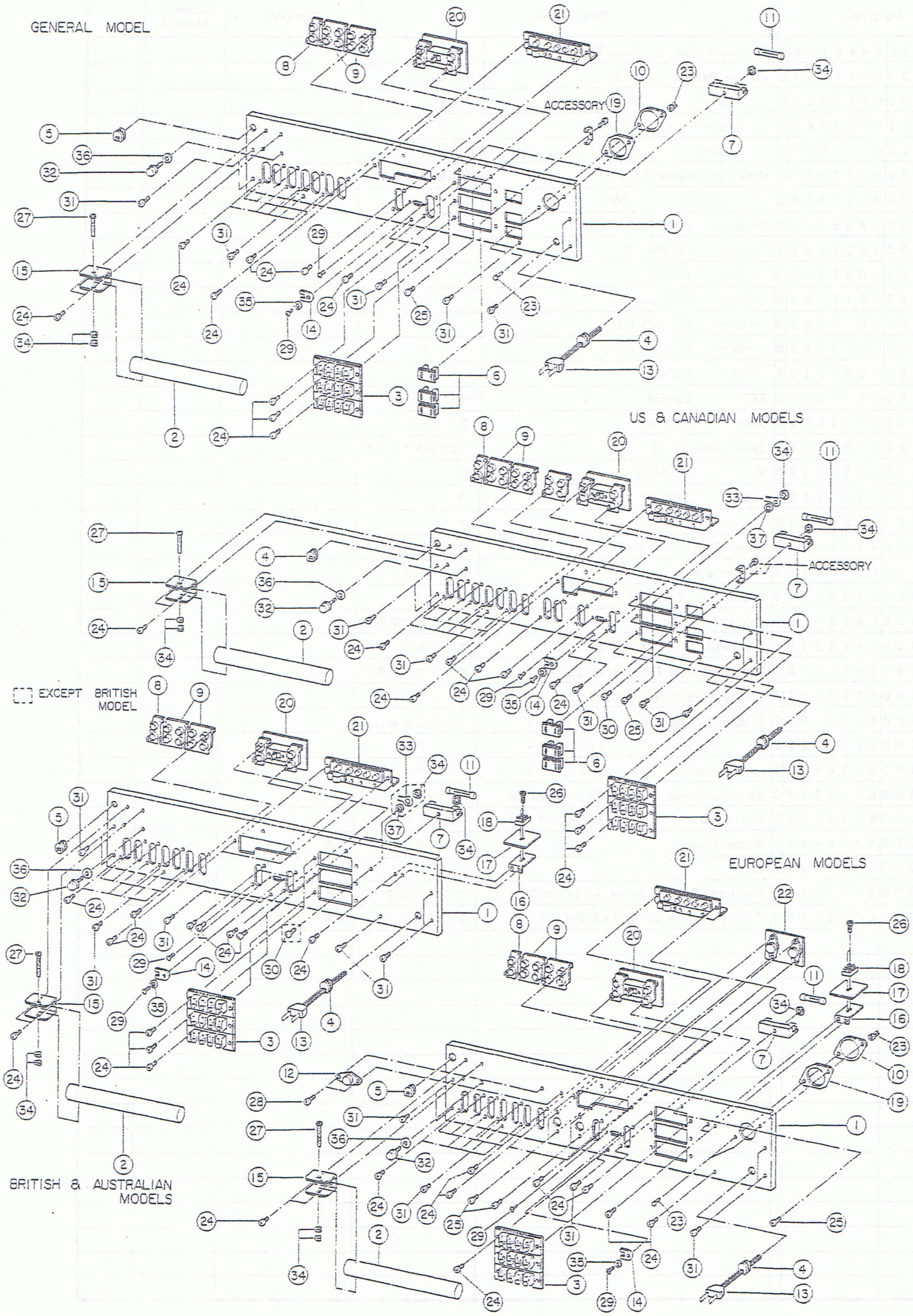

ACCESSORY
ACCESSORY

Ref. No.	Part No.	Description		Remarks	Common Models	
1	320000AA084710	Main-Chassis	メインシャーシ		CR-2020	
2	320000AA084730	Side Frame, L	サイドフレームL		—do.—	
3	320000AA084740	Side Frame, R	サイドフレームR		—do.—	
4	320000AA084830	Holder, Power Supply C. Board 1	電源シート1 ホルダー		—do.—	
5	320000AA085460	Holder, Electrolytic Cap.	ケミコンホルダー			
6	320000AA084850	Adiabatic Board	断熱板		CR-2020	
7	320000AA084880	Holder R. Electrolytic Cap. C. Board	シートホルダーR		—do.—	
8	320000AA084890	Holder L, Electrolytic Cap. C. Board	シートホルダーL		—do.—	
9	320000AA084930	Holder For Pulley	滑車ホルダー		—do.—	
10	320000AA084870	Plate For Cord	コード押え		—do.—	
11	320000CB075840	Pulley	滑車		CR-620,820, 2020, CT-1010	
12	320000CB077890	Pulley Clip	プーリークリップ		—do.—	
13	320000CB079420	Wire Supporter	ワイヤークリップ		CR-2020	
14	320000BA065750	Heat Sink	放熱板		CR-2020 CA-1000 II	
15	420000GA610720	Power Transformer	電源トランス	R,E		
	420000GA610740	—do.—	〃	C		
	420000GA610710	—do.—	〃	U		
	420000GA610780	—do.—	〃	A,B		
16	320000AA084900	Switch Stay	SW取付金具		CR-2020	
17	320000NA068992	Power Supply Circuit Board 2	電源シート2	R,U,C,A		
	320000NA069002	—do.—	〃	E,B		
	420000KA800260	Push Switch 1×2×3	プッシュSW			
	420000iC191800	Transistor 2SC1918	トランジスター			
18	320000NA068991	Power Supply Circuit Board 1	電源シート1	R,U,C,A		
	320000NA069001	—do.—	〃	E,B		
A	420000iA065910	Transistor 2SA659NP E,F	トランジスター		2SA673A,D	
	420000iA084410	—do.— 2SA844 D,E	〃			
	420000iB054400	—do.— 2SB544	〃			
	420000iC117510	—do.— 2SC1175NP E,F	〃		2SC1213AC,D	
	420000iC189000	—do.— 2SC1890 D,E	〃			
	420000iC191800	—do.— 2SC1918	〃			
	420000iD040000	—do.— 2SD400	〃			
	420000iD023400	—do.— 2SD234	〃			
B	420000iF000040	Diode 1S1555	ダイオード			
	420000iF000240	—do.— 1S1885	〃			
	420000iH000470	—do.— 1D4B1	〃			
	420000iF000640	Zener Diode HZ-7B	ツェナーダイオード			
	420000iF000550	—do.— HZ-12C	〃			
C	420000FH234100	Ceramic Capacitor 0.01μ500VYZ	セラコン			
	420000FJ259100	Electrolytic Cap. 1000μ35V	ケミコン			
	420000FZ000450	—do.— , Z Type 47μ16V	Zケミコン			
D	420000HT170060	Variable Resistor B 2K	半固定抵抗			
	420000HL314150	Metal Oxide Film Resistor 15Ω	酸金抵抗			
	420000HM535180	Cement Molded Resistor 3P 180Ω	セメント抵抗			
	420000HM055100	—do.— 5W100Ω	〃			
E	420000KB001060	Fuse ST-4 1A250V	ヒューズ	R,U,C,A		
	420000KB000730	—do.— Ⓢ 1A250V	〃	E,B		
F	420000KC000350	Relay HC-2P 12V80mA	リレー			
G	420000LA000530	Eyelet	ハトメ			
H	420000LB200900	Fuse Holder	ヒューズホルダー	R,U,C,A		
	420000LB201060	—do.—		E,B		

Ref. No.	Part No.	Description		Remarks	Common Models	
I	420000 LB60028 0	Connector Socket	コネクター			
J	420000 LA00128 0	Wire Lapping Pin	ラッピング端子			
K	320000 BA06973 0	Radiator	放熱板			
19	320000 NA06904 0	Electrolytic Cap. C. Board	ケミコンシート	R.C.A.E.B		
	320000 NA06902 0	—do.—	〃	U		
A	420000 IH00025 0	Diode 1S1886	ダイオード			
	420000 IH00050 0	—do.— SS-5	〃		SS151	
	420000 IH00051 0	—do.— SS-5R	〃		SS151R	
	420080 IH00047 0	—do.— ID4B1	〃			
B	420000 FH23410 0	Caramic Capacitor 0.01μ500V	セラコン			
	420000 FJ26910 0	Electrolytic Cap. 1000μ50V	ケミコン			
	420000 FZ00081 0	—do.—, Lug Type 15000μ63V	ケミコンラグ型			
C	420000 HL32647 0	Metal Oxide Film Resistor 2P4.7KΩ	酸金抵抗			
	420000 HL42410 0	—do.— 2P10Ω	〃			
	420000 HW10422 0	Fuse Resistor 150mA22Ω	ヒューズ抵抗	R.A.E.C.B		
	420000 HW20422 0	—do.—	〃	U		
	420000 HW10410 0	—do.— 220mA10Ω	〃	R.A.E.C.B		
	420000 HW20410 0	—do.—	〃	U		
D	420000 LA00053 0	Eyelet With Wing	羽根付ハトメ			
	420000 LB60176 0	6P Connector, C. Board Type	コネクターピン			
20	320000 NA06891 0	Main Circuit Board	メインシート	R.A		
	320000 NA06885 0	—do.—	〃	U		
	320000 NA06889 0	—do.—	〃	C		
	320000 NA06890 0	—do.—	〃	E.B		
A	420000 IA05617 0	Transistor 2SA561 O~Y	トランジスター			
	420000 IA08440 0	—do.— 2SA844	〃			
	420000 IA08720 0	—do.— 2SA872	〃			
	420000 IC04588 0	—do.— 2SC458 B,C	〃			
	420000 IC07343 0	—do.— 2SC734 O~Y	〃			
	420000 IC16280 0	—do.— 2SC1628 O~Y	〃			
	420000 IC19180 0	—do.— 2SC1918 E,F,G	〃			
	420000 IA07439 0	—do.— 2SA743 B	〃			
	420000 IC12129 0	—do.— 2SC1212 B	〃			
B	420000 IF00004 0	Diode 1S1555	ダイオード			
	420000 IF00057 0	Zener Diode Hz-6C	ツェナーダイオード			
C	420000 FC02510 0	Mylar Capacitor 0.1μ100V	マイラーコン			
	420000 FH23410 0	Ceramic Cap. 0.01μ500V	セラコン			
	420000 FH61060 0	—do.— 6P500V	〃			
	420000 FH61122 0	—do.— 22P500V	〃			
	420000 FH61147 0	—do.— 47P500V	〃			
	420000 FZ00058 0	Electrolytic Cap., RB 10μ25V	RBケミコン			
D	420000 HT41015 0	Variable Resistor B4.7K	ソリッドVR			
	420000 HL41615 0	Metal Oxide Film Resistor 1P 1.5KΩ	酸金抵抗			
	420000 HL62615 0	—do.— 2P1.5KΩ	〃			
	420000 HL62627 0	—do.— 2P2.7KΩ	〃			
	420000 HM05247 0	Cement Molded Resistor 5P0.47Ω	セメント抵抗			
	420000 HM05410 0	—do.— 5P10Ω	〃			
	420000 HM05622 0	Cement Molded Resistor 5P2.2KΩ	〃			
	420000 HZ00071 0	Fire Proof Resistor 1P4.7Ω	不燃性抵抗			
	420000 HW11468 0	Fuse Resistor 100mA68Ω	ヒューズ抵抗	R.C.B.A.E		
	420000 HW21468 0	—do.—	〃	U		

Ref. No.	Part No.	Description		Remarks	Common Models	
E	420000 GD90021 0	Coil 2.0μH	コイル			
F	420000 KB00059 0	Fuse, Ⓢ 5A250V	Ⓢヒューズ	B,E		
	420000 KB00110 0	—do.— UL 5A250V	ULヒューズ	R,U,C,A		
G	320000 BA06955 0	Radiator	放熱板		CA-R1 CR-2020	
	320000 BA06967 0	—do.—	〃		CR-2020	
H	320000 BB06308 0	TR-Pusher	トランジスター プッシャー		CR-520,820, 2020,CA-1000 II	
I	420000 LA00037 0	Pipe-Lug Terminal	パイプラグ			
	420000 LA00053 0	Eyelet With Wing	羽根付ハトメ			
	420000 LA00064 0	Eyelet	ハトメ			
J	420000 LB20090 0	Fuse Holder Pin YSP402P	ヒューズ ホルダーピン	R,U,C,A		
	420000 LB20106 0	—do.— YSH403P	〃	B,E		
K	420000 LB30011 0	Transistor Socket SZ-110B-00	トランジスター ソケット	R,B,A,E		
	420000 LB30027 0	—do.— SZ-110M-OL	〃	U,C		
21	420000 iB05550 0	Transistor 2SB555 R～O	トランジスター			
22	420000 iD04250 0	—do.— 2SD425 R～O	〃			
23	420000 iL00023 0	Isolation Base, Mica	マイカベース			
24	320000 BA06972 0	Shaft	延長シャフト		CR-2020	
25	320000 CB07794 0	Joint	ジョイント		CR-2020,820, 620,CA-1010	
26	320000 CB07926 0	V.C Pulley	バリコンプーリー		CR-620, 820,2020	
27	420000 CB07707 0	Dial String ϕ0.39×1.6m	ダイヤル糸			
28	320000 AA08053 0	Dial Spring	ダイヤル スプリング		CR-620,820, 2020,450	
29	320000 NA06927 1	Tuner Circuit Board 1	チューナーシート1	R		
	320000 NA06894 1	—do.—	〃	U,C		
	320000 NA06895 1	—do.—	〃	A,E,B		
A	420000 PA00037 0	RF Pack FB623U	パック		CR-2020	
B	420000 GE10015 0	OSC Coil	OSCコイル			
	420000 GE10018 0	FM IFT	FM IFT			
	420000 GE10020 0	FM Discriminater Coil	FMディスクリ コイル			
	420000 GE20007 0	MPX Coil	MPXコイル			
	420000 GE20016 0	—do.— 22mH	MPX固定コイル			
	420000 GE30013 0	RF Inductor Coil 10μH	RFインダクター			
	420000 GE30015 0	—do.— 8.2mH	〃			
C	420000 GG00008 0	Ceramic Filter FSN1067	セラミック フィルター			
	420000 GG00017 0	—do.— CFM-107M-12C	〃			
D	420000 FA15310 0	Mylar Capacitor(J) 0.001μ50V	マイラーコン			
	420000 FA15415 0	—do.— (J) 0.015μ50V	〃	A,E,B		
	420000 FA15422 0	—do.— (J) 0.022μ50V	〃	R,U,C		
	420000 FA11310 0	—do.— 0.001μ50V	〃			
	420000 FA11347 0	—do.— 0.0047 50V	〃			
	420000 FD15282 0	Polystyrene Cap. (J) 820P	スチコン			
	420000 FD15222 0	—do.— (J) 220P	〃			
	420000 FE15233 0	—do.— (J) 330P.	〃			
	420000 FE15316 0	—do.— (J) 1600P	〃			
	420000 FE15410 0	—do.— (J) 10000P	〃			
	420000 FS11368 0	BL Ceramic Cap. 0.0068μ 50V	SBLコン			
	420000 FS11415 0	—do.— 0.015μ 50V	〃			
	420000 FS13447 0	—do.— 0.047μ 50V	〃			
	420000 FZ00098 0	Electrolytic Cap., RB 10μ 25V	RBケミコン			
	420000 FZ00072 0	UPF Cap. 0.015μ 100V	UPFコン			
	420000 FZ00073 0	—do.— 0.056μ 100V	UPFコン			
	420000 FJ54622 0	Electrolytic Cap., KU 2.2μ 25V	ケミコンKU			

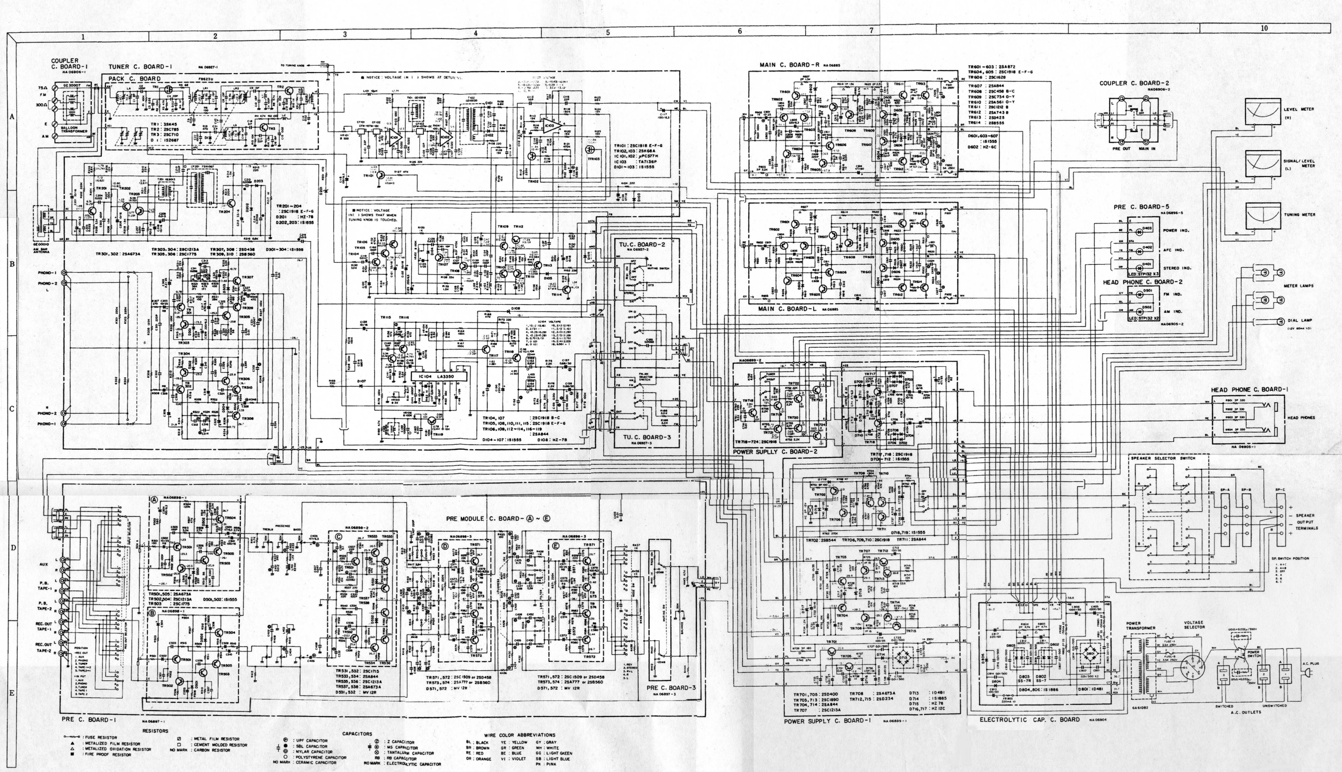
Ref. No.	Part No.	Description		Remarks	Common Models
	420000FM425680	Electrolytic Cap. Z 0.68μ 50V	Zケミコン		
E	420000HTI70020	Variable Resistor B10K	半固定抵抗		
	420000HTI70030	−do.− B100K	〃		
	420000HTI70040	−do.− B500	〃		
	420000HTI70070	−do.− B3K	〃		
	420000HU576470	Metal Film Pesistor(F) 4.7K	金属被膜抵抗		
	420000HU577560	−do.− 56K	〃		
F	420000iA067310	Transistor 2SA673A C.D	トランジスター		
	420000iA084400	−do.− 2SA844 D.E	〃		
	420000iB056000	−do.− 2SB560	〃		
	420000iC121310	−do.− 2SC1213A C.D	〃		
	420000iC177500	−do.− 2SC1775 D.E	〃		
	420000iC191800	−do.− 2SC1918 C.D.E	〃		
	420000iD043800	−do.− 2SD438	〃		
	420000iE103500	FET 2SK68A	FET		
G	420000iF000040	Diode 1S1555	ダイオード		
	420000iF000640	Zener Diode HZ-7B	ツェナーダイオード		
H	420000iG000390	IC μPC577H	IC		
	420000iG001220	−do.− TA7136P	〃		
	420000iG001230	−do.− LA3350	〃		
I	420000KA501010	Rotary Switch SRZ-V042	ロータリースイッチ		
J	420000LB400310	4P Pin-Jack	ピンジャック		
K	420000LA001240	Eyelet 3×1.6×3	ハトメ		
L	420000LA001280	Wire Lapping Pin	ラッピング端子		
30	420000EA450960	Pan Head Screw 5×96 FCM3-B1	ナベ小ネジ		
31	420000EH040100	Pan Head Sems Type Screw 3Pieces 4×10 ZMC2-Y	セムスナベ小ネジ		
32	420000ED030060	Binding Head Screw 3×6 ZMC2-Y	バインド小ネジ		
33	420000EI030080	Binding Tapping Screw 3×8 ZMC2-Y	バインドタッピングネジ		
34	420000Ei030060	−do.− 3×6 ZMC2-Y	〃		
35	420000EI040080	−do.− 4×8 ZMC2-Y	〃		
36	420000EZ330140	BW Head Screw 3×14 FNM3-3M	BWヘッド小ネジ		
37	420000EV200030	Flat Washer 3S ZMC2-Y	平座金ミガキ丸		
38	320000AA084810	Bottom Cover	ボトムカバー	E.B	CR-1020
39	420000CB079490	Leg	脚	E.B	−do.−
40	420000EJ040140	Pan Head Tapping Screw 4×14 ZMC2-Y	ナベタッピングネジ	E.B	
41	420000ED030080	Binding Tapping Screw 3×8 ZMC2-Y	バインドタッピングネジ	E.B	

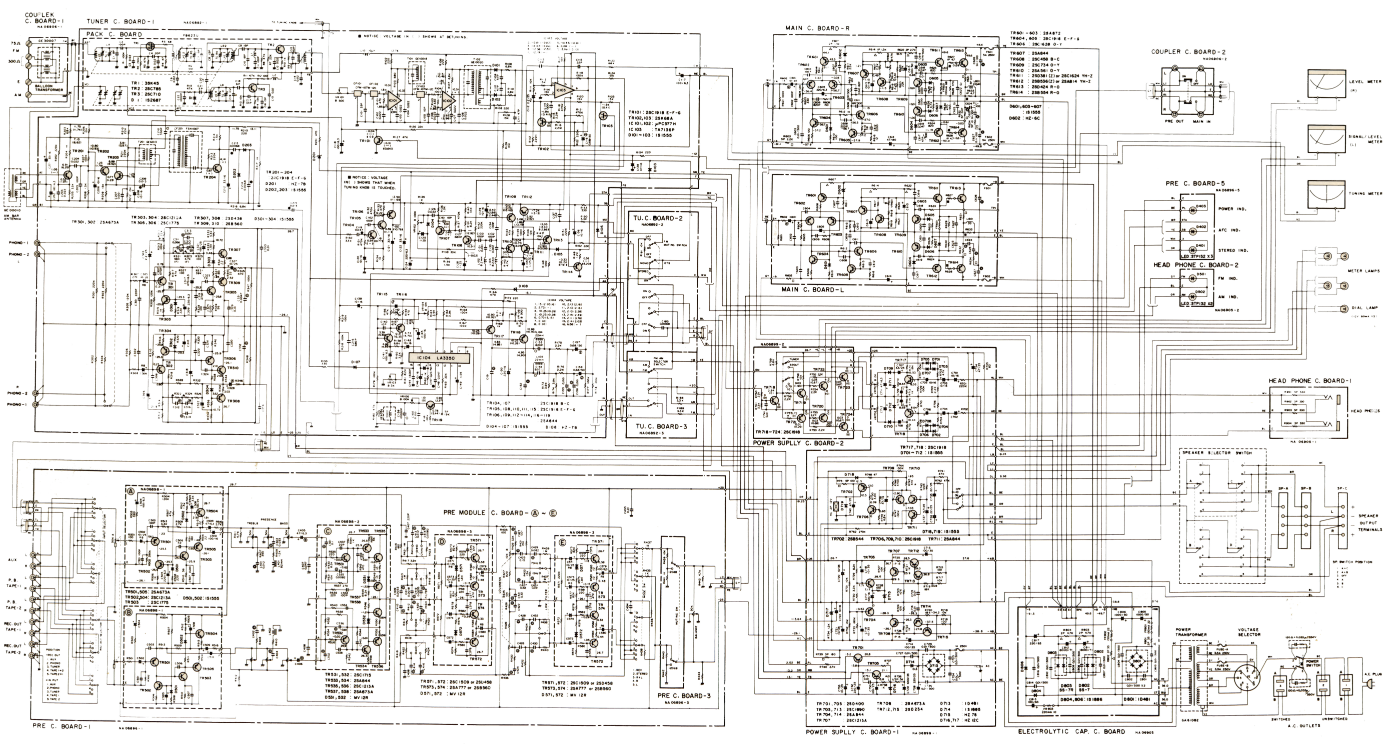

GENERAL MODEL
ACCESSORY
US & CANADIAN MODELS
ACCESSORY
EXCEPT BRITISH MODEL
EUROPEAN MODELS
BRITISH & AUSTRALIAN MODELS

Ref. No.	Part No.			Description			Remarks	Common Models
1	320000	AA08497	0	Rear Panel		リアパネル	R	
	320000	AA08610	0	-do.-		〃	C	
	320000	AA08498	0	-do.-		〃	U	
	320000	AA08499	0	-do.-		〃	A	
	320000	AA08500	0	-do.-		〃	E	
	320000	AA08553	0	-do.-		〃	B	
2	420000	GE00010	0	AM Bar Antenna		AMバーアンテナ		
3	420000	LA00134	0	4P-Push Terminal		4Pプッシュターミナル		
4	420000	CB06863	0	Cord Stopper	SR-3P-4	コードストッパー	R.U.C	
	420000	CB07065	0	-do.-	EA-5	〃	A.E.B	
5	320000	CB06278	0	Rubber Spacer		ゴムブッシュ	R.A.E.B	CR-2020, 620,820
6	420000	LB20071	0	AC Socket	S-16428	ACコンセント	R.U.C	
7	420000	LB20084	0	Fuse Holder	1PFH	ヒューズホルダー	R.U.C.A	
	420000	LB20094	0	-do.-	1PFH-M	〃	E.B	
8	420000	LB20088	0	2P-Pin Jack		2Pピンジャック		
9	420000	LB40016	0	4P-Pin Jack		4Pピンジャック		
10	420000	LB20026	0	Voltage Selector	SW033-3023	電圧切換器	R.E	
11	420000	KB00042	0	Fuse	2.5AT250V	ヒューズ	R.A	
	420000	KB00069	0	Fuse, ⑤	2.5AT250V	⑤ヒューズ	E.B	
	420000	KB00110	0	Fuse, UL	5A125V	ULヒューズ	U.C	
12	420000	LB20015	0	75Ω Coaxial Cable Socket		75Ω同軸コネクター	E	
13	420000	MG00034	0	Power Cord		電源コード	R.U.C	
	420000	MG00050	0	-do.-		〃	A	
	420000	MG00046	0	Power Cord Assembly		〃	B	All of Models
14	320000	CB06868	0	Stopper, Coupler Switch		カプラーストッパー		CR-2020 CA-1000
15	320000	AA07697	0	Antenna Holder		アンテナホルダー		CR-2020,820 620,AMS-20
16	320000	AA08462	0	Stay, 3P-Terminal		端子ステイ	A.E.B	CR-2020 CA-R1
17	320000	CB07497	0	Isolation Plate		絶縁板	A.E.B	CR-600,620 820,2020
18	420000	LA00104	0	Board, 3P-Terminal		3P中継端子台	A.E.B	
19	320000	CB07656	0	Isolation Plate For V.Select		VS絶縁板	R.E	[illegible]
20	320000	NA06906	2	Coupler Circuit Board 2		カプラーシート2		
A	420000	GE30007	0	Balloon Transformer		バルーントランス		
B	420000	LA00195	0	Antenna Terminal		アンテナ端子		
C	420000	LA00128	0	Wire Lapping Pin		ラッピング端子		
21	320000	NA06906	1	Coupler Circuit Board 1		カプラーシート1		
A	420000	KA40021	0	Slide Switch		スライドスイッチ		
B	420000	LB20096	0	2P-Pin Jack		2Pピンジャック		
C	420000	LA00043	0	Eyelet		ハトメ		
22	320000	NA06968	0	Din Circuit Board		Dinシート	E	
A	420000	LB50019	0	Din Socket		Dinソケット	E	
B	420000	LA00043	0	Eyelet		ハトメ	E	
23	420000	CB06888	0	Plastic Rivet		プラスチックリベット	R.E	
24	420000	EI43008	0	Binding Tapping Screw	3×8 FCM3-B1	バインドタッピングネジ		
25	420000	ED43008	0	Binding Head Screw	3×8 FCM3-B1	バインド小ネジ		
26	420000	ED03016	0	-do.-	3×16 ZMC2-Y	〃		
27	420000	EA43025	0	Pan Head Screw	3×25 FCM3-B1	ナベ小ネジ		
28	420000	EJ42608	0	Pan Head Tapping Screw	2.6×8 FCM3-B1	ナベタッピングネジ		
29	420000	EC42604	0	Oval Head Screw	2.6×4 FCM3-B1	トラス小ネジ		
30	420000	EI03008	0	Binding Tapping Screw(C-1)	3×8 FCM3-B1	バインドタッピングネジ		
31	420000	EZ00046	0	Bonding Tapping Screw	3×8 FCM3-B1	ボンディングタッピングネジ		
32	420000	LA00107	0	Earth Terminal		アース端子		

Ref. No.	Part No.		Description		Remarks	Common Models
33	420000	LA000280	Lug Terminal 3mm	アースラグ	U,C,A	
34	420000	EV104300	Hexagonal Nut M3 FCM3-BI	六角ナット		
35	420000	EV204030	Plain Washer 3S FCM3-BI	平座金ミガキ丸		
36	420000	EV901360	Plain Washer, Sems Type φ3.6×φ10×t0.8 FNM3-3g	〃		
37	420000	EV410030	Tooth Locked Washer 3S ZMC2-Y	歯付座金	U,C,A	

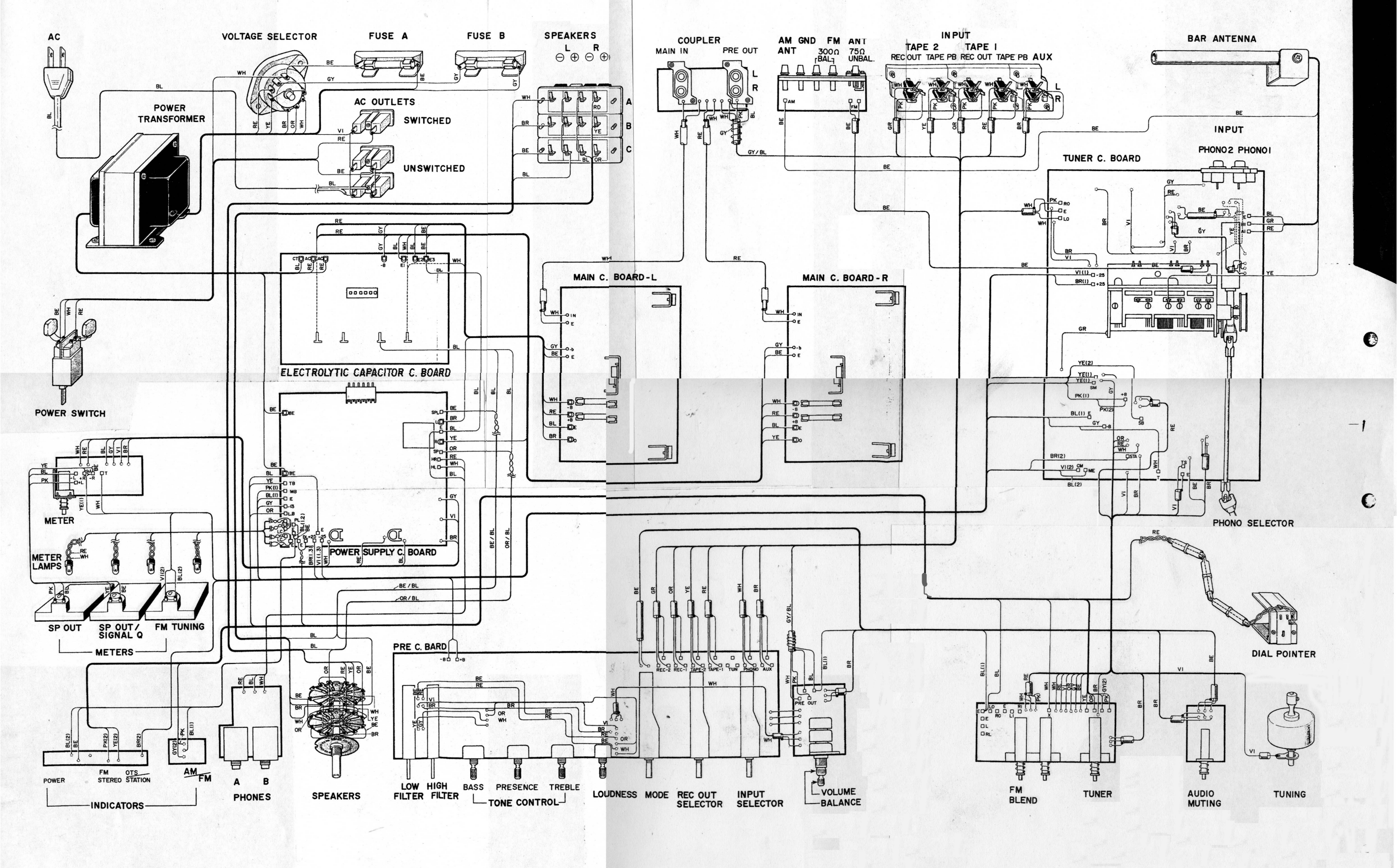
SCHEMATIC DIAGRAM





COUPLER C. BOARD-1
TUNER C. BOARD-1
PACK C. BOARD
MAIN C. BOARD-R
MAIN C. BOARD-L
COUPLER C. BOARD-2
PRE OUT
MAIN IN
LEVEL METER
SIGNAL LEVEL METER
TUNING METER
PRE C. BOARD-5
POWER IND.
AFC IND.
STEREO IND.
HEAD PHONE C. BOARD-2
FM IND.
AM IND.
METER LAMPS
DIAL LAMP
TU. C. BOARD-2
TU. C. BOARD-3
IC104 LA3350
POWER SUPPLY C. BOARD-2
HEAD PHONE C. BOARD-1
HEAD PHONES
SPEAKER SELECTOR SWITCH
SPEAKER OUTPUT TERMINALS
PRE MODULE C. BOARD-Ⓐ~Ⓔ
PRE C. BOARD-3
PRE C. BOARD-1
POWER SUPPLY C. BOARD-1
ELECTROLYTIC CAP. C. BOARD
POWER TRANSFORMER
VOLTAGE SELECTOR
POWER SWITCH
A.C. PLUG
SWITCHED
UNSWITCHED
A.C. OUTLETS
PHONO-1
PHONO-2
AUX
TAPE-1
TAPE-2
REC. OUT TAPE-1
REC. OUT TAPE-2
BALLOON TRANSFORMER

WIRING



AC
VOLTAGE SELECTOR
FUSE A
FUSE B
SPEAKERS
L R
COUPLER
MAIN IN
PRE OUT
AM GND FM ANT
ANT 300Ω (BAL) 75Ω UNBAL.
INPUT
TAPE 2 TAPE 1
REC OUT TAPE PB REC OUT TAPE PB AUX
BAR ANTENNA
POWER TRANSFORMER
AC OUTLETS
SWITCHED
UNSWITCHED
TUNER C. BOARD
INPUT
PHONO2 PHONO1
MAIN C. BOARD-L
MAIN C. BOARD-R
ELECTROLYTIC CAPACITOR C. BOARD
POWER SWITCH
METER
METER LAMPS
POWER SUPPLY C. BOARD
PHONO SELECTOR
DIAL POINTER
SP OUT
SP OUT / SIGNAL Q
FM TUNING
METERS
PRE C. BARD
POWER
FM STEREO
OTS STATION
INDICATORS
AM
FM
A B
PHONES
SPEAKERS
LOW FILTER
HIGH FILTER
BASS
PRESENCE
TREBLE
TONE CONTROL
LOUDNESS
MODE
REC OUT SELECTOR
INPUT SELECTOR
VOLUME
BALANCE
FM BLEND
TUNER
AUDIO MUTING
TUNING

COUPLEK C. BOARD-1
NA06906-1
TUNER C. BOARD-1
NA06892-1
PACK C. BOARD
TR1 : 3SK45
TR2 : 2SC785
TR3 : 2SC710
D1 : 1S2687
BALLOON TRANSFORMER
AM BAR ANTENNA
NOTICE : VOLTAGE IN ( ) SHOWS AT DETUNING.
TR101 : 2SC1918 E-F-G
TR102,103 : 2SK68A
IC101,102 : μPC577H
IC103 : TA7136P
D101~103 : 1S1555
TR201~204 : 2SC1918 E-F-G
D201 : HZ-7B
D202,203 : 1S1555
NOTICE : VOLTAGE IN( ) SHOWS THAT WHEN TUNING KNOB IS TOUCHED.
TR301,302 : 2SA673A
TR303,304 : 2SC1213A
TR305,306 : 2SC1775
TR307,308 : 2SD438
TR309,310 : 2SB560
D301~304 : 1S1555
PHONO-1
PHONO-2
TU. C. BOARD-2
NA06892-2
TU. C. BOARD-3
NA06892-3
IC104 LA3350
TR104,107 : 2SC1918 B-C
TR105,108,110,111,115 : 2SC1918 E-F-G
TR106,109,112~114,116~119 : 2SA844
D104~107 : 1S1555
D108 : HZ-7B
MAIN C. BOARD-R
MAIN C. BOARD-L
TR601~603 : 2SA872
TR604,605 : 2SC1918 E-F-G
TR606 : 2SC1628 O-Y
TR607 : 2SA844
TR608 : 2SC458 B-C
TR609 : 2SC734 O-Y
TR610 : 2SA561 O-Y
TR611 : 2SD381(Z) or 2SC1624 YH-Z
TR612 : 2SB536(Z) or 2SA814 YH-Z
TR613 : 2SD424 R-O
TR614 : 2SB554 R-O
D601,603~607 : 1S1555
D602 : HZ-6C
COUPLER C. BOARD-2
NA06905-2
PRE OUT
MAIN IN
LEVEL METER (R)
SIGNAL/LEVEL METER (L)
TUNING METER
PRE C. BOARD-5
NA06896-5
POWER IND.
AFC IND.
STEREO IND.
LED : STP132 X3
HEAD PHONE C. BOARD-2
FM IND.
AM IND.
LED : STP132 X2
NA06905-2
METER LAMPS
DIAL LAMP
(12V 60mA X5)
POWER SUPLLY C. BOARD-2
NA06899-2
TR718~724 : 2SC1918
TR717,718 : 2SC1918
D701~712 : 1S1555
HEAD PHONE C. BOARD-1
NA 06905-1
HEAD PHONES
SPEAKER SELECTOR SWITCH
SP-A
SP-B
SP-C
SPEAKER OUTPUT TERMINALS
SP. SWITCH POSITION
TR702 : 2SB544
TR706,709,710 : 2SC1918
TR711 : 2SA844
D718,719 : 1S1555
PRE MODULE C. BOARD-Ⓐ~Ⓔ
NA06898-1
NA06898-2
NA06898-3
PRESENCE
TREBLE
BASS
LOUDNESS
FILTER
MODE SW
MUTING SW
BALANCE
TR501,505 : 2SA673A
TR502,504 : 2SC1213A
TR503 : 2SC1775
D501,502 : 1S1555
TR531,532 : 2SC1715
TR533,534 : 2SA844
TR535,536 : 2SC1213A
TR537,538 : 2SA673A
D531,532 : MV 12R
TR571,572 : 2SC1509 or 2SD458
TR573,574 : 2SA777 or 2SB560
D571,572 : MV 12R
AUX
P.B. TAPE-1
P.B. TAPE-2
REC. OUT TAPE-1
REC. OUT TAPE-2
INPUT SELECTOR
REC OUT SELECTOR
PRE C. BOARD-1
NA06896-1
PRE C. BOARD-3
NA06896-3
POWER SUPLLY C. BOARD-1
NA06899-1
TR701,705 : 2SD400
TR703,713 : 2SC1890
TR704,714 : 2SA844
TR707 : 2SC1213A
TR708 : 2SA673A
TR712,715 : 2SD234
D713 : 1D4B1
D714 : 1S1885
D715 : HZ 7B
D716,717 : HZ 12C
ELECTROLYTIC CAP. C. BOARD
NA06903
D803 SS-7R
D802 SS-7
D804,806 : 1S1886
D801 : 1D4B1
POWER TRANSFORMER
GA61082
VOLTAGE SELECTOR
POWER SWITCH
FUSE-A 3.5A 250V
FUSE-B 3.5A 250V
A.C. PLUG
SWITCHED
UNSWITCHED
A.C. OUTLETS