

## STEREO CASSETTE MUSIC SYSTEM

MODEL **AF-5080** EE, UK**AIWA**<sup>®</sup>  
[SERVICE MANUAL]

Set using ISO screws

DATE OF ISSUE 25/11/1975

## SPECIFICATIONS

<b>Model Type</b>	Stereo cassette music system	<b>SN Ratio</b>	according to DIN 45 500 Blatt 8
<b>Semiconductors</b>	7 IC, 52 transistors, 22 diodes, 1 FET, 3 LED		50 dB
<b>Power Supply</b>	AC 110-120 V/220-240 V switchable 50/60 Hz	<b>Bias Frequency</b>	61 kHz
<b>Power Consumption</b>	130 W (8 ohms) 180 W (4 ohms)	<b>Erase Method</b>	AC erase
<b>Dimensions</b>	148 (H) x 590 (W) x 382 (D) mm (w/o dust cover)	<b>Motor</b>	DC servo motor
<b>Weight</b>	17.5 kg (w/ dust cover)	<b>◀ FM Multiplex Section ▶</b>	
<b>Accessories</b>	Indoor FM antenna 1 Head cleaning stick 1 Tape Cassette 1 Motor pulley (for 60 Hz) 1	<b>Separation</b>	More than 38 dB (1 kHz)
<b>◀ Tuner Section ▶</b>		<b>Distortion</b>	0.7%
<b>Frequency Range</b>	FM: 87.5 MHz - 108 MHz (3.43 ~ 2.87 m) MW: 525 kHz - 1,605 kHz (571 ~ 187 m) SW: 5.9 - 16 MHz (50.9 - 18.7 m) LW: 150 - 340 kHz (2000 - 882 m)	<b>◀ Turntable Section ▶</b>	
<b>Effective Sensitivity</b>	FM: 2.5 $\mu$ V (IHF) MW: 300 $\mu$ V/m (IHF) SW: 40 $\mu$ V (IHF) LW: 550 $\mu$ V (IHF)	<b>Model Type</b>	Belt driven automatic turntable
<b>FM Frequency Response</b>	20 Hz - 15,000 Hz	<b>Motor</b>	4-pole synchronous motor
<b>FM SN Ratio</b>	62 dB	<b>Speeds</b>	33-1/3 and 45 rpm
<b>FM Distortion</b>	0.5%	<b>S N Ratio</b>	45 dB
<b>Muting Level</b>	18 dB	<b>Wow and Flutter</b>	0.1% (WRMS)
<b>Antennas</b>	FM: 300 ohms (balanced), 75 ohms (unbalanced) AM: built-in antenna, terminal for external antenna	<b>Cartridge Type</b>	Moving magnet (MM)
<b>◀ Cassette Tape Deck Section ▶</b>		<b>Separation</b>	18 dB (33-1/3 rpm 1 kHz)
<b>Track Format</b>	4 tracks, 2 channels	<b>Tracking Force</b>	2 - 2.5 grams
<b>Tape Speed</b>	4.8 cm/sec.	<b>◀ Audio Section ▶</b>	
<b>Recording Time</b>	60 minutes (C-60)	<b>Circuitry</b>	Pure complementary SEPP OTL
<b>Wow and Flutter</b>	according to DIN 45 500 Blatt 8 0.2%	<b>Output Power</b> (at 1 kHz/ distortion: 1%)	Music power: 30 W + 30 W (8 ohms) 55 W + 55 W (4 ohms) Continuous Power: 24 W + 24 W (8 ohms) 28 W + 28 W (4 ohms)
<b>Frequency Response</b>	according to DIN 45 500 Blatt 8 Normal tape: 30 Hz - 11,000 Hz Fe-Cr tape: 30 Hz - 15,000 Hz CrO <sub>2</sub> tape: 30 Hz - 15,000 Hz	<b>Frequency Response</b>	20 Hz - 20 kHz
		<b>Gain and Input Impedance</b>	MIC: 1 mV (200 ohms - 10 k-ohms) DIN IN (TAPE PLAY): $\leq$ 500 mV ( $\geq$ 470 k-ohms)
		<b>Output Level and Impedance</b>	DIN OUT (TAPE REC): 1 mV/k-ohm SPEAKERS: 4 ~ 8 ohms PHONES: 4 ~ 8 ohms BASS: 100 Hz $\pm$ 10 dB TREBLE: 10 kHz $\pm$ 10 dB
		<b>Tone Controls</b>	

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## DISASSEMBLY INSTRUCTIONS

### 1. To Remove Wooden Cover

- 1) Remove 4 screws, (1) through (4). (Refer to Fig. 1).

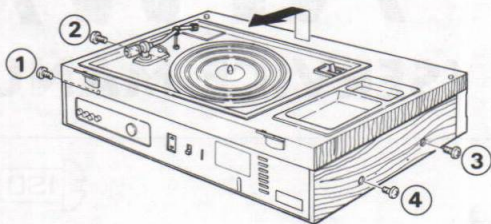


Fig. 1

### 2. To Remove Turntable

- 1) Disconnect turntable connectors ((1)~(3)) and AC cord (4). Turntable and wooden cover can then be removed. (Refer to Fig. 2).

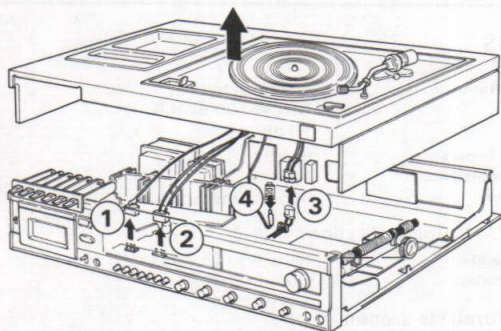


Fig. 2

### 3. To Remove Push-key Guide

- 1) Remove mounting screw (1). (Refer to Fig. 3)

### 4. To Remove Front Sash

- 1) Pull out the control knobs
- 2) Remove 7 screws, (2) through (8) (Refer to Fig. 3)

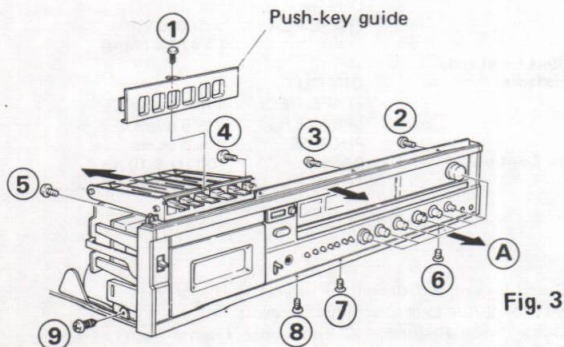


Fig. 3

### 5. To Remove Mechanical Assembly

- 1) Remove mounting screw (9) (Refer to Fig. 4)
- 2) Disconnect 8 connectors (Nos. 2, 3, 5, 8, 10, 11, 12, 13). (Refer to Fig. 4)  
\* All connectors are numbered.

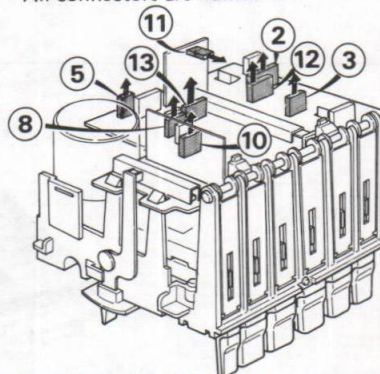


Fig. 4

### 6. To Remove Rec./Pb. Circuit Board

- 1) Push 4 clips ( 1) through ( 4) ) in directions shown by arrows to disengage from Rec./Pb circuit board and pull circuit board upward to remove from mechanical assembly. However, first remove connectors (Nos. 1, 4, 6, 7, 9) and screw (5).  
\* All connectors are numbered. (Refer to Fig. 5)

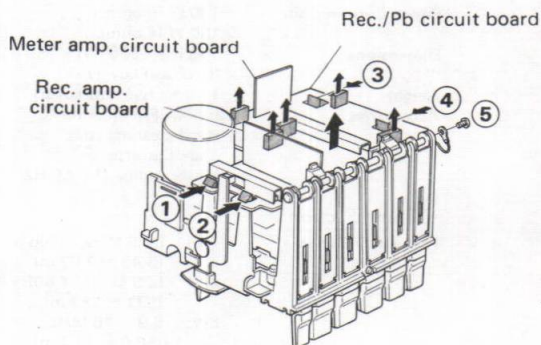


Fig. 5

### 7. To Remove DOLBY NR Circuit Board

- 1) Remove connector and 2 screws ((1) and (2)). (Refer to Fig. 6).

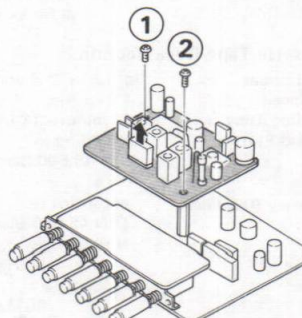
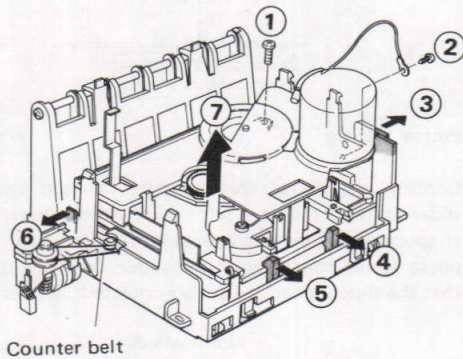


Fig. 6

**8. To Remove Mechanical Unit from Mechanical Holder**

- 1) Take off counter belt.
- 2) Remove 2 screws, (1) and (2). By pulling part of the mechanical holder (3) and 3 clips (4, 5, 6) in directions shown by arrows, the mechanical unit can be removed in arrow (7) direction. (Refer to Fig. 7).



Counter belt

Fig. 7

**9. To Remove Mainframe Chassis**

- 1) Remove 10 screws, (1) through (10). (Refer to Fig. 8).

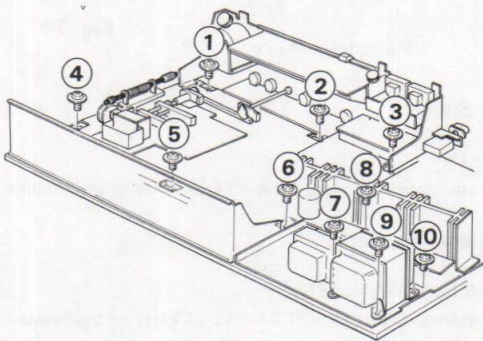


Fig. 8

**10. To Remove Main Amp/Power Circuit Board**

- 1) Remove 6 screws, (1) and (6). (Refer to Fig. 9)

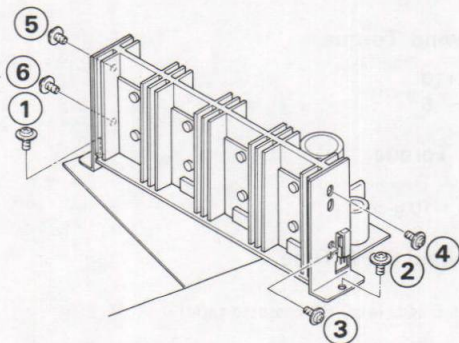


Fig. 9

**11. To Remove Tuner Circuit Board**

- 1) Remove 2 screws, (1) and (2). Pull tuner circuit board in direction shown by arrow to remove. (Refer to Fig. 10) (Refer to Fig. 8)

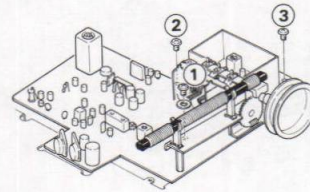


Fig. 10

- 2) In order to prevent the dial cord from slipping off the dial drum when removing the tuner circuit board, loosen setscrew and as shown in the figure, set dial drum on raised tab of chassis. (Refer to Fig.11) (Refer to Fig. 9).

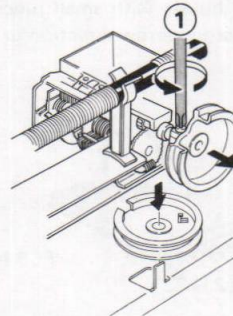
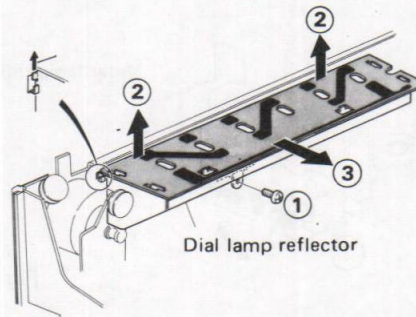


Fig. 11

**12. To Remove Dial Lamp Reflector and Dial Lamp Circuit Board**

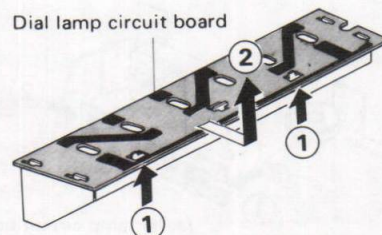
- 1) Remove mounting screw (1) and pull reflector in arrow directions (2, 3) to remove. (Refer to Fig. 12).



Dial lamp reflector

Fig. 12

To remove dial lamp circuit board from reflector, raise the circuit board near the tabs in arrow (1) direction and slide in arrow (2) direction. (Refer to Fig. 13).



Dial lamp circuit board

Fig. 13

**13. To Remove Control Circuit Board**

- 1) Remove connector (1) and 2 screws ((2) and (3)).
  - 2) Remove 5 nuts (4) and E ring (5).
- (Refer to Fig. 14)

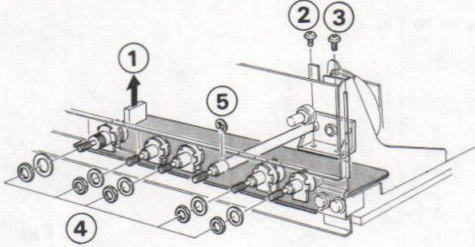


Fig. 14

**14. To Remove Pre-amp./Selector Switch Circuit Board**

- 1) Disconnect 4 connectors (Nos. 14, 17, 18, 19).
  - 2) Remove 2 screw, (1) and (2).
  - 3) Pressing the PCB holder with small pincers or the like, pull the circuit board in arrow direction to remove.
- (Refer to Fig. 15)

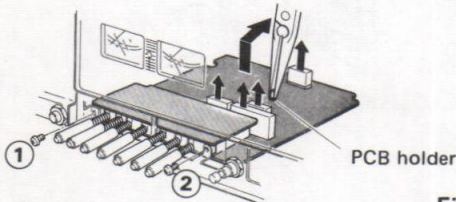


Fig. 15

**15. To Remove Dial Lamp Reflector and Dial Lamp Circuit Board**

- 1) Remove mounting screw (1) and pull meter lamp reflector in arrow direction to remove.
- (Refer to Fig. 16)

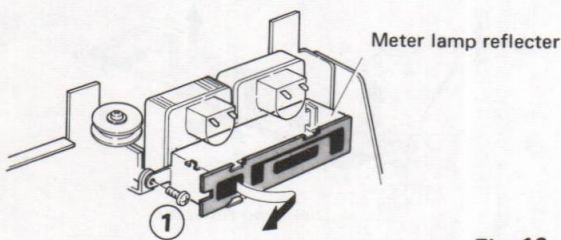


Fig. 16

- 2) To remove the meter lamp circuit board from the reflector, raise the circuit board near the tab in arrow (1) direction and slide in arrow (2) direction.
- (Refer to Fig. 17)

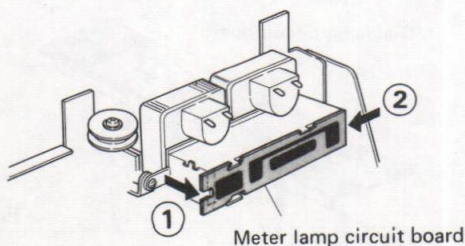


Fig. 17

**ADJUSTMENTS****■ Mechanical Section****1. Thrust**

Turn thrust adjusting screw in direction shown by arrow. Adjust for  $0.2 \pm 0.1$  mm spacing between screw and flywheel. (Refer to Fig. 18)

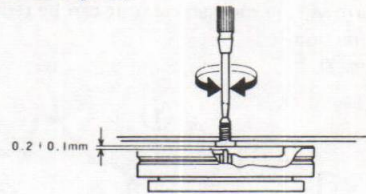


Fig. 18

**2. Pause Spring**

- 1) Confirm that pause spring lightly contacts the slider when slider tip is contacted at left side of worm wheel.
- 2) If space occurs between pause spring and slider due to strong pause spring contact with the slider, bend the pause spring so that the slider becomes lightly contacted. (Refer to Fig. 19)

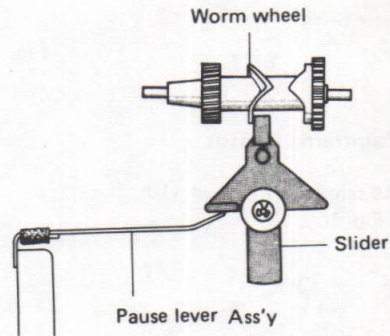


Fig. 19

**3. Tape Speed**

$3\text{kHz} \pm 1\%$

Use a standard test tape, TTA-111 (3 kHz) or equivalent.

**4. Wow and Flutter**

$0.08 \pm 0.02\%$  (WRMS) PB

Use a standard test tape, TTA-111 (3 kHz) or equivalent.

**5. Pinch Roller Pressure**

$275 \pm 25\text{g}$

**6. Take-up Torque**

$50 \pm 10 \text{ g-cm}$

**7. Rewind Torque**

$95 \begin{matrix} +10 \\ -5 \end{matrix} \text{ g-cm}$

**8. FF Torque**

$100 \pm 10 \text{ g-cm}$

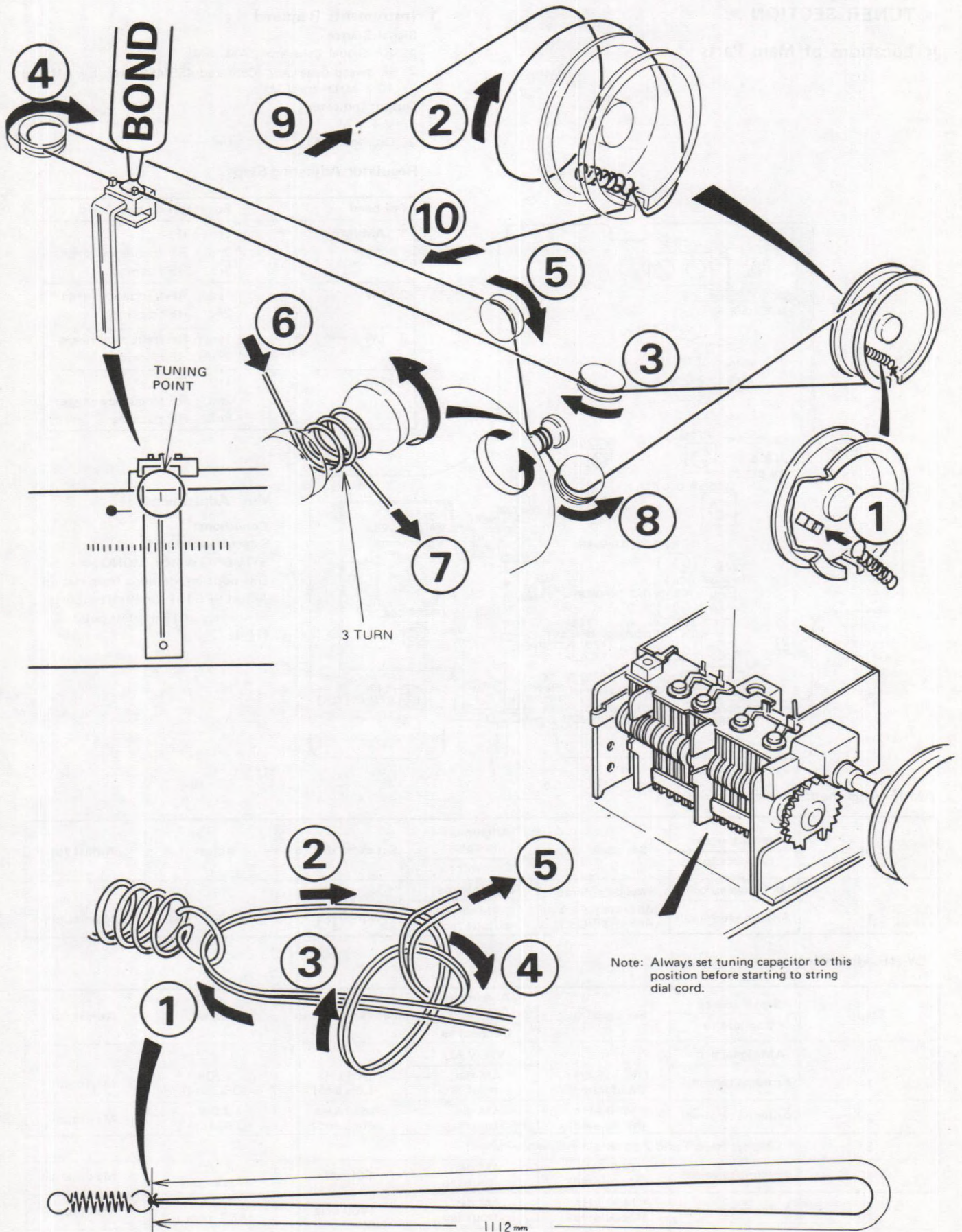
**9. Rewind & FF Time**

$80 \pm 5 \text{ sec.}$  (at C-60 cassette tape).

**10. Automatic Shut-off Time**

$2 \begin{matrix} +0 \\ -1.5 \end{matrix} \text{ sec.}$

DIAL CORD STRINGING



**ADJUSTMENTS**

◀ **TUNER SECTION** ▶

■ **Locations of Main Parts**

**1. Instruments Required**

**Signal Source**

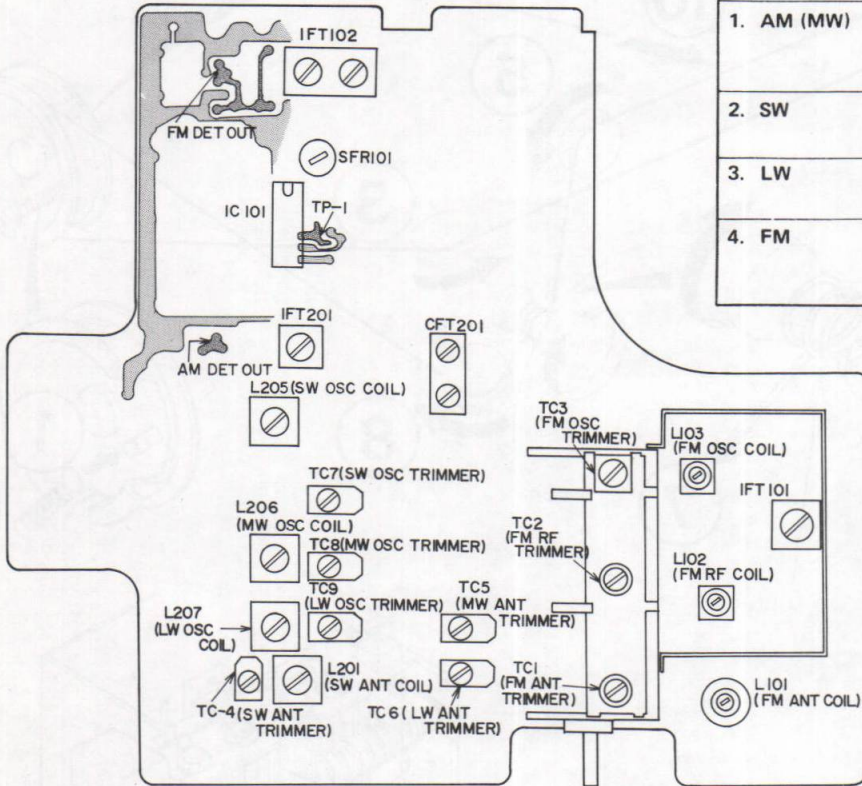
1. RF Signal generator (AM, FM).
2. IF sweep generator (Centered 455/468 kHz. for AM and 10.7 MHz for FM).

**Output Indicator**

1. V.T.V.M.
2. Oscilloscope

**Regulator Adjusting Steps**

For band	For stages on each band
<b>1. AM (MW)</b>	1st: IF 2nd: RF frequency range 3rd: RF tracking
<b>2. SW</b>	1st: RF frequency range 2nd: RF tracking
<b>3. LW</b>	1st: RF frequency range 2nd: RF tracking
<b>4. FM</b>	1st: IF 2nd: RF frequency range 3rd: RF tracking



**Mpx Adjustment**

**Conditions:**

- Selector switch: FM
- ST/MONO switch: MONO
- Dial position: detuned from station
- Adjust SFR101 for 19kHz ± 50Hz
- Frequency at 19kHz test point (TP-1).

**AM-IF Alignment**

Step	Signal source	Set signal to	Alignment indicator	Set radio dial to	Adjust	Adjust for
	Connect to		Connect to			
1	AM IF sweep gen.	Sweep centered 455kHz ( EE ) 468kHz ( UK )	Oscilloscope	Min. Freq.	CFT201 (AM)	Maximum
	Antenna terminal		AM det. output tab			

**MW-RF Alignment**

Step	Signal source	Set signal to	Alignment indicator	Set radio dial to	Adjust	Adjust for
	Connect to		Connect to			
1	AM signal gen.	MW 515 kHz (Modulated)	V.T.V.M.	515 kHz (Low end)	L206 (OSC coil)	Maximum
	Antenna terminal		AM det. output tab			
2	Antenna terminal	1650 kHz (Modulated)	AM det. output tab	1650 kHz (High end)	TC-8 (OSC trim.)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Antenna terminal	600 kHz (Modulated)	AM det. output tab	600 kHz	L202 (ANT coil)	Maximum
5	Antenna terminal	1400 kHz (Modulated)	AM det. output tab	1400 kHz	TC-5 (ANT trim.)	Maximum
6	(Repeat steps 4 and 5 to minimize tracking error, and also step 3 if necessary.)					

## SW-RF Alignment

Step	Signal source	Set signal to	Alignment indicator	Set radio dial to	Adjust	Adjust for
	Connect to		Connect to			
1	AM signal gen.	SW 5.7 MHz (Modulated)	V.T.V.M.	5.7 MHz (Low end)	L205 (OSC coil)	Maximum
	Antenna terminal		AM det. output tab			
2	Antenna terminal	16.7 MHz (Modulated)	AM det. output tab	16.7 MHz (High end)	TC-7 (OSC trim.)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Antenna terminal	5.7MHz (Modulated)	AM det. output tab	5.7MHz	L201 (ANT coil)	Maximum
5	Antenna terminal	16.7MHz (Modulated)	AM det. output tab	16.7MHz	TC-4 (ANT trim.)	Maximum
6	(Repeat steps 4 and 5 to minimize tracking error, and also step 3 if necessary.)					

## LW-RF Alignment

Step	Signal source	Set signal to	Alignment indicator	Set radio dial to	Adjust	Adjust for
	Connect to		Connect to			
1	AM signal gen.	LW 145 kHz (Modulated)	V.T.V.M.	145 kHz (Low end)	L207 (OSC coil)	Maximum
	Antenna terminal		AM det. output tab			
2	Antenna terminal	350 kHz (Modulated)	AM det. output tab	350 kHz (High end)	TC-9 (OSC trim.)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Antenna terminal	145 kHz (Modulated)	AM det. output tab	145 kHz	L204 (ANT coil)	Maximum
5	Antenna terminal	350 kHz (Modulated)	AM det. output tab	350 kHz	TC-6 (ANT trim.)	Maximum
6	(Repeat steps 4 and 5 to minimize tracking error, and also step 3 if necessary.)					

## FM-IF Alignment

Step	Signal source	Set signal to	Alignment indicator	Set radio dial to	Adjust	Adjust for
	Connect to		Connect to			
1	FM IF sweep gen.	Sweep centered 10.7 MHz	Oscilloscope	Max. Freq.	IFT101 IFT102	Max. Symmetrical response, equal heights
	Antenna terminal		FM det. output tab			
2	Antenna terminal	Sweep centered 10.7 MHz	FM det. output tab	Max. Freq.	IFT102	Symmetrical response, centered 10.7 MHz
3	(Repeat 1 and 2 to obtain a balanced "S" curve linearity.)					

## FM-RF Alignment

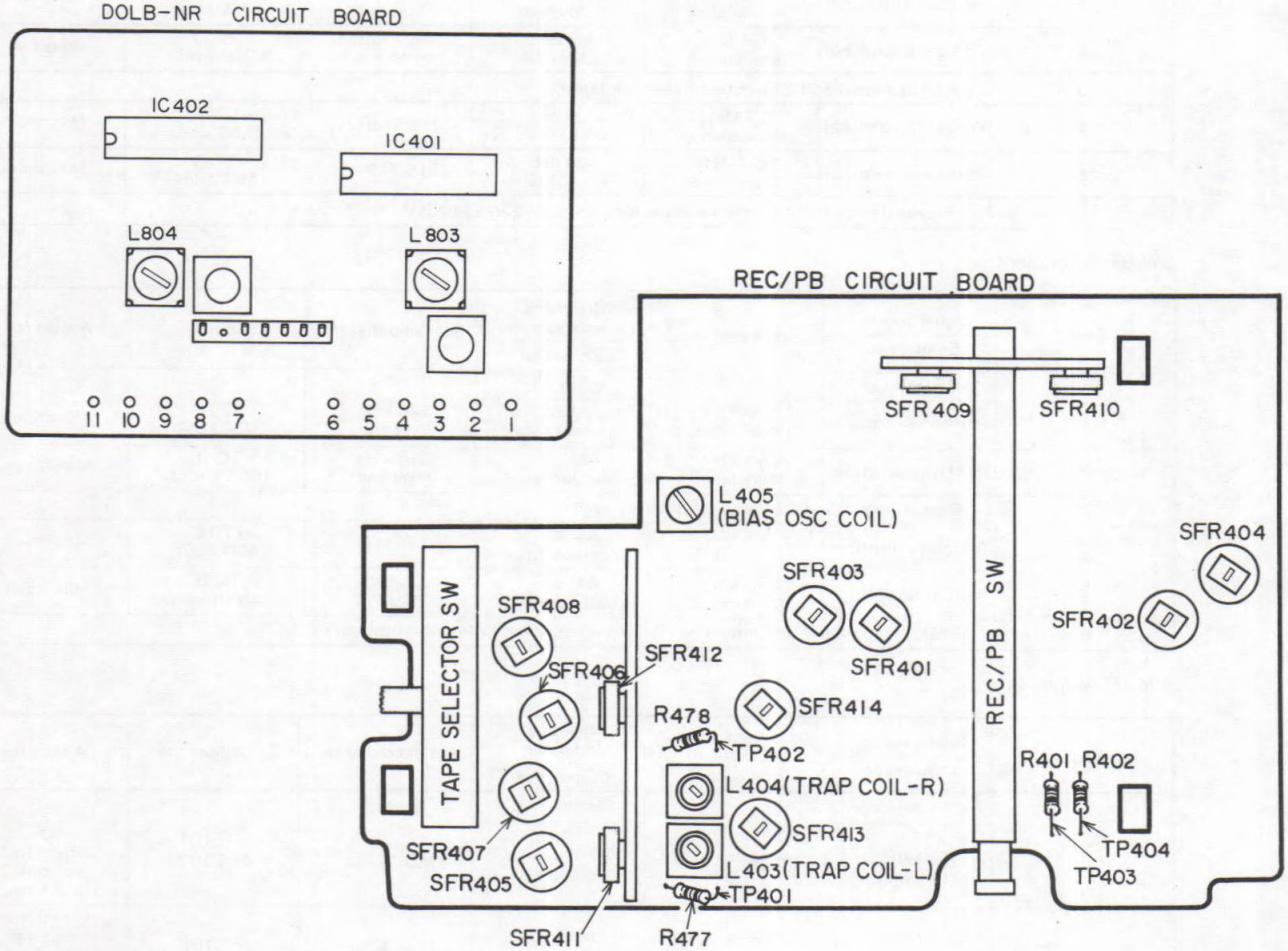
Step	Signal source	Set signal to	Alignment indicator	Set radio dial to	Adjust	Adjust for
	Connect to		Connect to			
1	FM signal gen.	88 MHz (Modulated)	V.T.V.M.	88 MHz	L103 (OSC coil)	Maximum
	Antenna terminal		FM det. output tab			
2	Antenna terminal	107 MHz (Modulated)	FM det. output tab	107 MHz	TC-3 (OSC trim.)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Antenna terminal	88 MHz (Modulated)	FM det. output tab	88 MHz	L101 (ANT coil) L102 (RF coil)	Maximum
5	Antenna terminal	107 MHz (Modulated)	FM det. output tab	107 MHz	TC-1 (ANT trim) TC-2 (RF trim)	Maximum
6	(Repeat steps 4 and 5 to minimize tracking error, and step 3 if necessary.)					

## How to change the upper limit of FM frequency range from 107MHz to 103MHz.

Symbol No.	Description	107 MHz		103 MHz	
L102	FM Coil	2-1/4t	87-006-017-01	1-3/4t	87-006-016-01
L103	FM Coil	1-1/2t	87-006-015-01	1-1/4t	87-006-036-01
C101	Ceramic capacitor	20pF	88-212-200-01	24pF	88-212-220-01
C104	Ceramic capacitor	15pF	88-212-150-01	22pF	88-212-210-01
C115	Ceramic capacitor	15pF	88-212-150-01	24pF	88-212-220-01

◀TAPE DECK SECTION▶

■ Locations of Main Parts



■ PLAYBACK ADJUSTMENTS

- Conditions: VOL. REC LEVEL, MIX VOL ..... MIN. BASS, TREBLE, BALANCE..... MID.

Adjustment Item	Dolby NR	Tape Selector	Test Tape	Adjustment Location	Specification
Azimuth	OFF	CrO <sub>2</sub>	TTA-117E	Rec./Pb head azimuth screw	10 kHz portion output maximum for both L & R channels
Tape Speed	OFF	LH	TTA-111	Speed semi-fixed resistor in motor	3000 Hz±30Hz
Playback Frequency Level	OFF	CrO <sub>2</sub>	TTA-117E	L-ch: SFR401 R-ch: SFR402	1 kHz/10 kHz Flat
Level Meter	ON	LH	TTA-161	L-ch: SFR409 R-ch: SFR410	VU meters shall indicate the DOLBY mark.

- Conditions: VOL. REC LEVEL, MIX VOL ..... MIN. BASS, TREBLE, BALANCE ..... MID. DOLBY NR..... ON

Adjustment Item	Test Tape	Connect to	Adjustment Location	Specification
Playback Level	TTA-161	Dolby NR circuit board L-ch: Terminal for No. 4 R-ch: Terminal for No. 9	L-ch: SFR-403 R-ch: SFR-404	580mV



## RECORDING ADJUSTMENTS

- Conditions:  
OSC switch ..... "..." position.

Adjustment Item	Connect Test Instrument	Adjustment Location	Specification
Bias Osc Frequency	Both erase head terminals	L405	OSC switch... "..." : 61 kHz, "..." : 60±0.5 kHz. "..." : 62±0.5 kHz.
Bias Trap Coil	L-ch: TP-401 R-ch: TP-402	L-ch: L403 R-ch: L404	Set test point voltage to minimum (less than 3V)
Bias Current	L-ch: TP-403 R-ch: TP-404	L-ch SFR413 R-ch: SFR414	5.6mV (560µA) for hole provided CrO <sub>2</sub> tape. 3.9mV (390µA) for other tape.

## REC/PB FREQUENCY RESPONSE ADJUSTMENTS

- Conditions:  
Input signal: 1 kHz/10 kHz -20dB

Tape Selector	Test Tape	Specification	10 kHz Level High	10 kHz Level Low	Adjustment Location
Fe-Cr	TTA-119E	1 kHz - 10 kHz Flat	Increase bias current beyond 3.9mV	Decrease bias current below 3.9mV	L-ch SFR407 R-ch SFR408

## REC/PB LEVEL ADJUSTMENT

- Conditions:  
Input signal: 1 kHz - OVU

Tape Selector	Test Tape	Adjustment Location	Specification
CrO <sub>2</sub>	TTA-119D	L-ch SFR411	0 ± 0.5dB
		R-ch SFR412	
Fe-Cr	TTA-119E	L-ch SFR407	0 ± 0.5dB
		R-ch SFR408	
LH	TTA-119E	L-ch SFR405	0 ± 0.5dB
		R-ch SFR406	

## ELECTRICAL MEASUREMENTS

### 1. Playback Output

Test Tape	Specification	Remarks
TTA-161	-11±0.5dB	Measure from external output jack (TAPE/REC.)

### 2. Rec./Pb. Distortion & Output

- Input signal: 400Hz OVU  
Input: TAPE/PLAY Jack  
Output: TAPE/REC Jack

Test Tape	Tape Selector	Rec./Pb. Distortion	Rec./Pb. Output
TTA-119D	CrO <sub>2</sub>	Less than 2.5%	-14 ± 1dB
TTA-119E	Fe-Cr	Less than 1.5%	-14 ± 1dB
TTA-119A	LH	Less than 2%	-14 ± 1dB

### 3. Rec./Pb. Frequency Response

- Input signal: 100Hz - 1kHz - 10kHz OVU -20dB  
(1 kHz standard)

Frequency	Test Tape TTA-119D	Test Tape TTA-119E	Test Tape TTA-119A
	Tape Selector CrO <sub>2</sub>	Tape Selector Fe-Cr	Tape Selector LH
100 Hz	-1 ± 2dB	0 ± 2dB	+1 ± 2dB
10 kHz	0 ± 2dB	0 ± 2dB	-2 ± 2dB

### 4. Rec./Pb. S/N

- Input signal: 400 Hz OVU/no signal (input shorted)

Test Tape	Tape Selector	Input Signal	Specification	
			DOLBY ON	DOLBY OFF
TTA-119D	CrO <sub>2</sub>	400 Hz	47±4dB	58dB
		No signal		
TTA-119E	Fe-Cr	400 Hz	47±4dB	58dB
		No signal		
TTA-119A	LH	400 Hz	47±4dB	58dB
		No signal		

### 5. Erase Efficiency

- Input signal: 1 kHz OVU +10dB  
Input: TAPE/PLAY Jack  
Output: Speaker Terminals (Use bandpass filter)

Tape Selector	Test Tape	Specification
CrO <sub>2</sub>	TTA-119D	More than 65dB
Fe-Cr	TTA-119E	More than 65dB
LH	TTA-119A	More than 65dB

### 6. Cross Talk & Separation

- Input signal: 1 kHz OVU  
Input: TAPE/PLAY Jack  
Output: Speaker Terminals (use bandpass filter)

Measurement Item	Tape Selector	Test Tape	Specification
Cross Talk	CrO <sub>2</sub>	TTA-119D	More than 65 dB
Separation	CrO <sub>2</sub>	TTA-119D	More than 30 dB

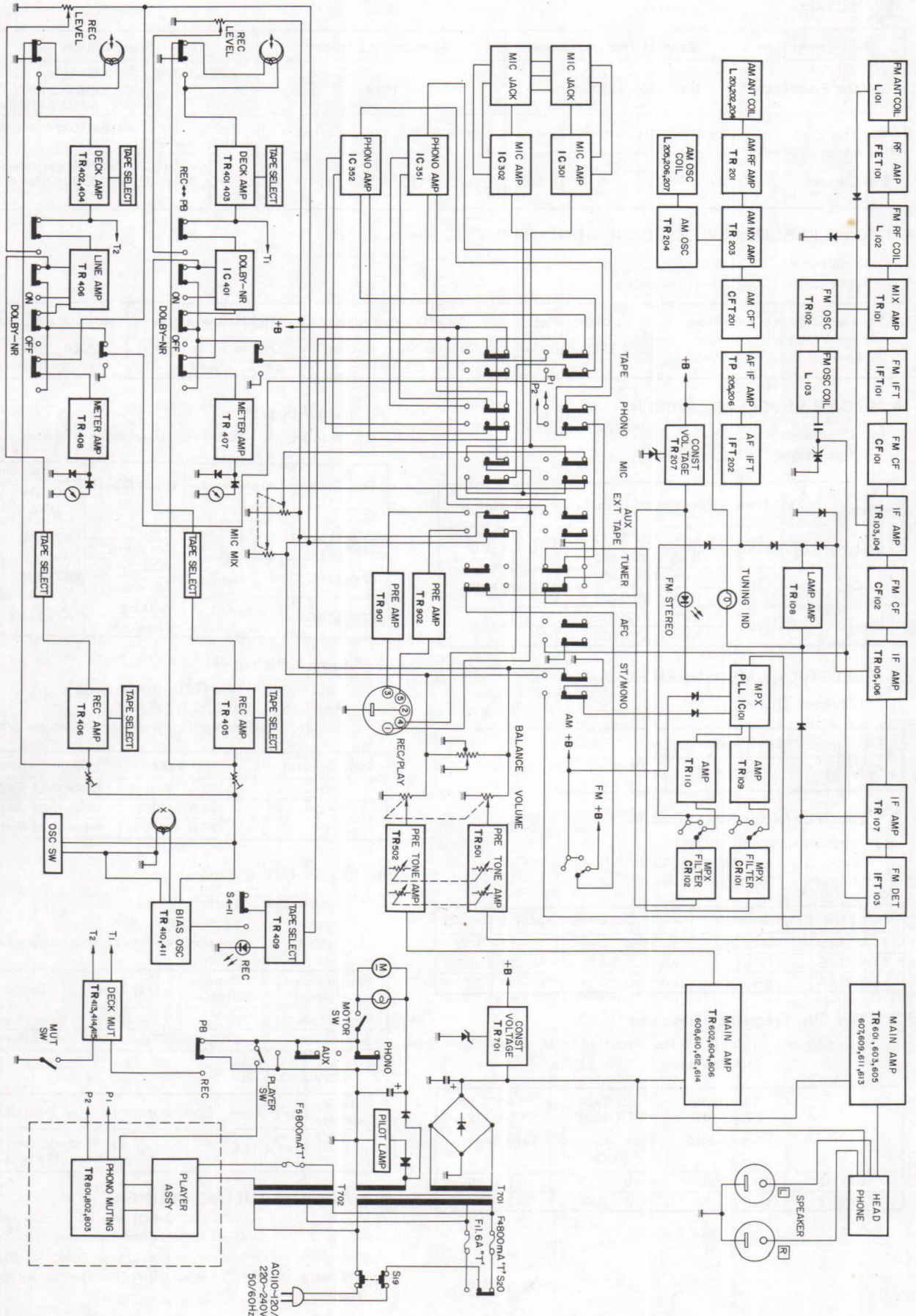
### 7. Playback S/N

Tape Selector	Test Tape	Specification	Remarks
LH	TTA-161	51 ± 4dB	Measure from external output jack (TAPE REC.)

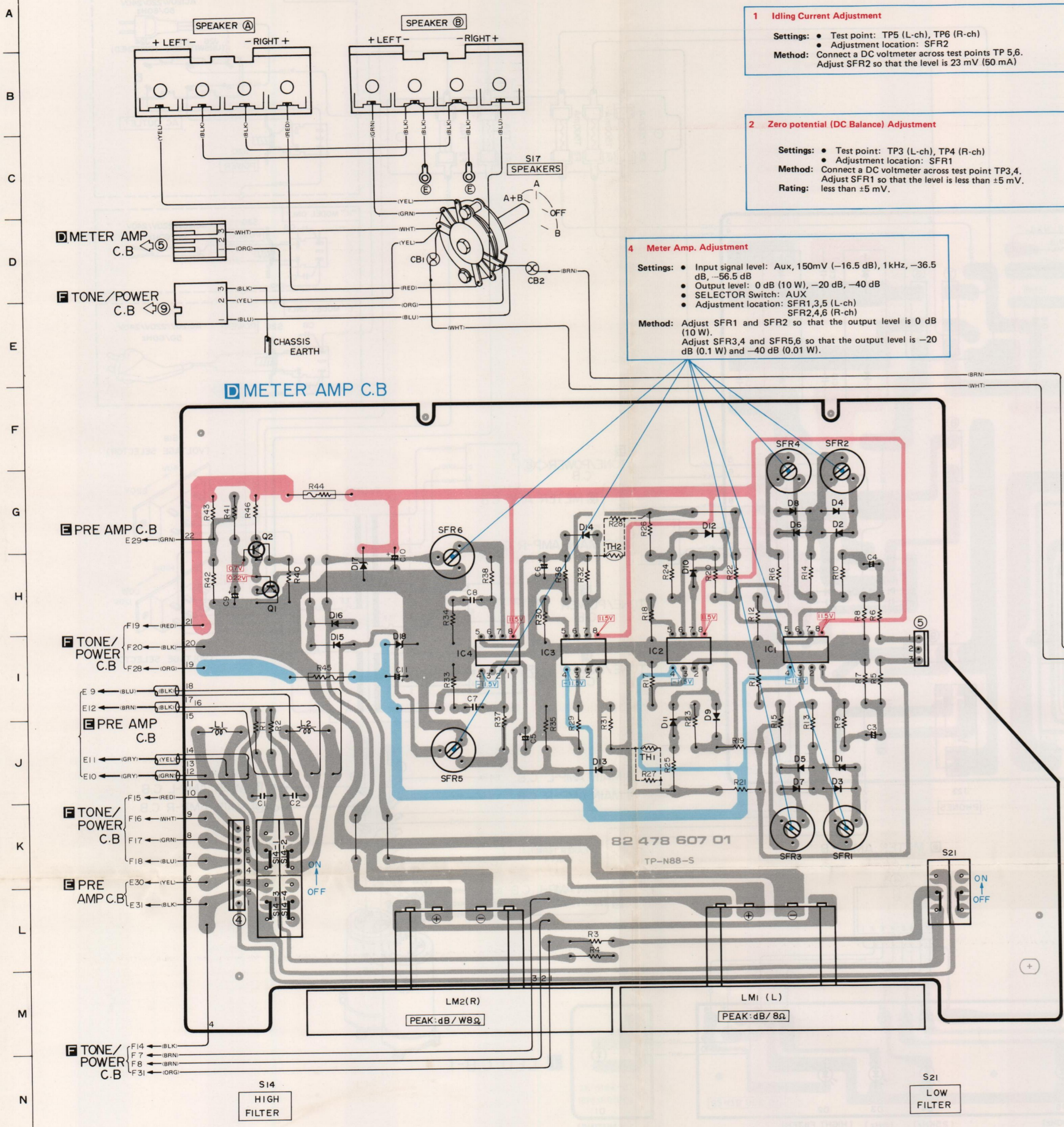
## MAIN AMP IDLING CURRENT

Disconnect one lead of R627 0.47Ω and connect current meter in series. With VOLUME at MIN, connect dummy resistance to load. Adjust idling current semi-fixed resistor SFR601 for 30mA current. In the same manner, connect current meter to R628 and adjust SFR602.

BLOCK DIAGRAM



WIRING-2



**1 Idling Current Adjustment**

**Settings:**

- Test point: TP5 (L-ch), TP6 (R-ch)
- Adjustment location: SFR2

**Method:** Connect a DC voltmeter across test points TP 5,6. Adjust SFR2 so that the level is 23 mV (50 mA)

**2 Zero potential (DC Balance) Adjustment**

**Settings:**

- Test point: TP3 (L-ch), TP4 (R-ch)
- Adjustment location: SFR1

**Method:** Connect a DC voltmeter across test point TP3,4. Adjust SFR1 so that the level is less than ±5 mV.

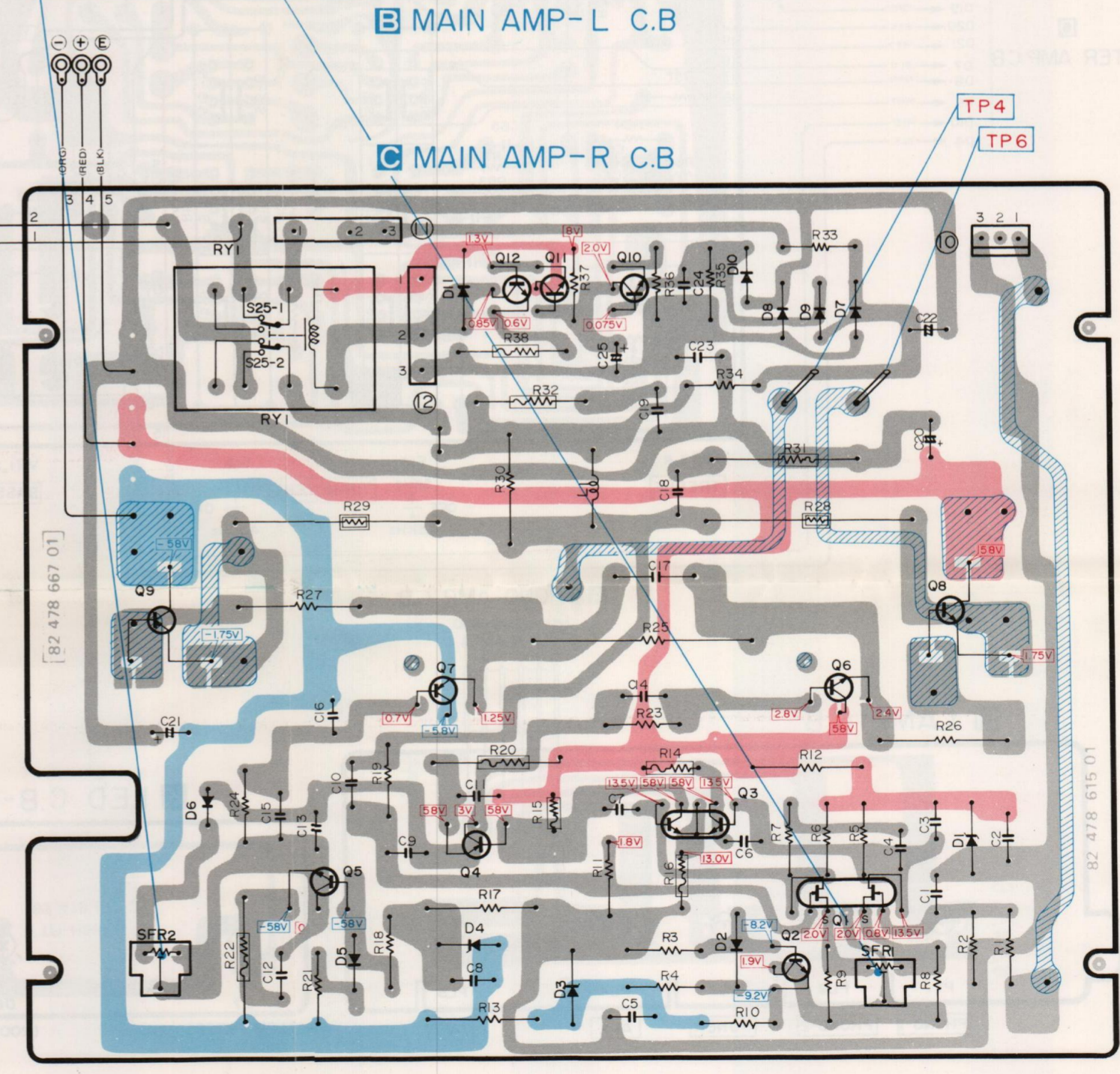
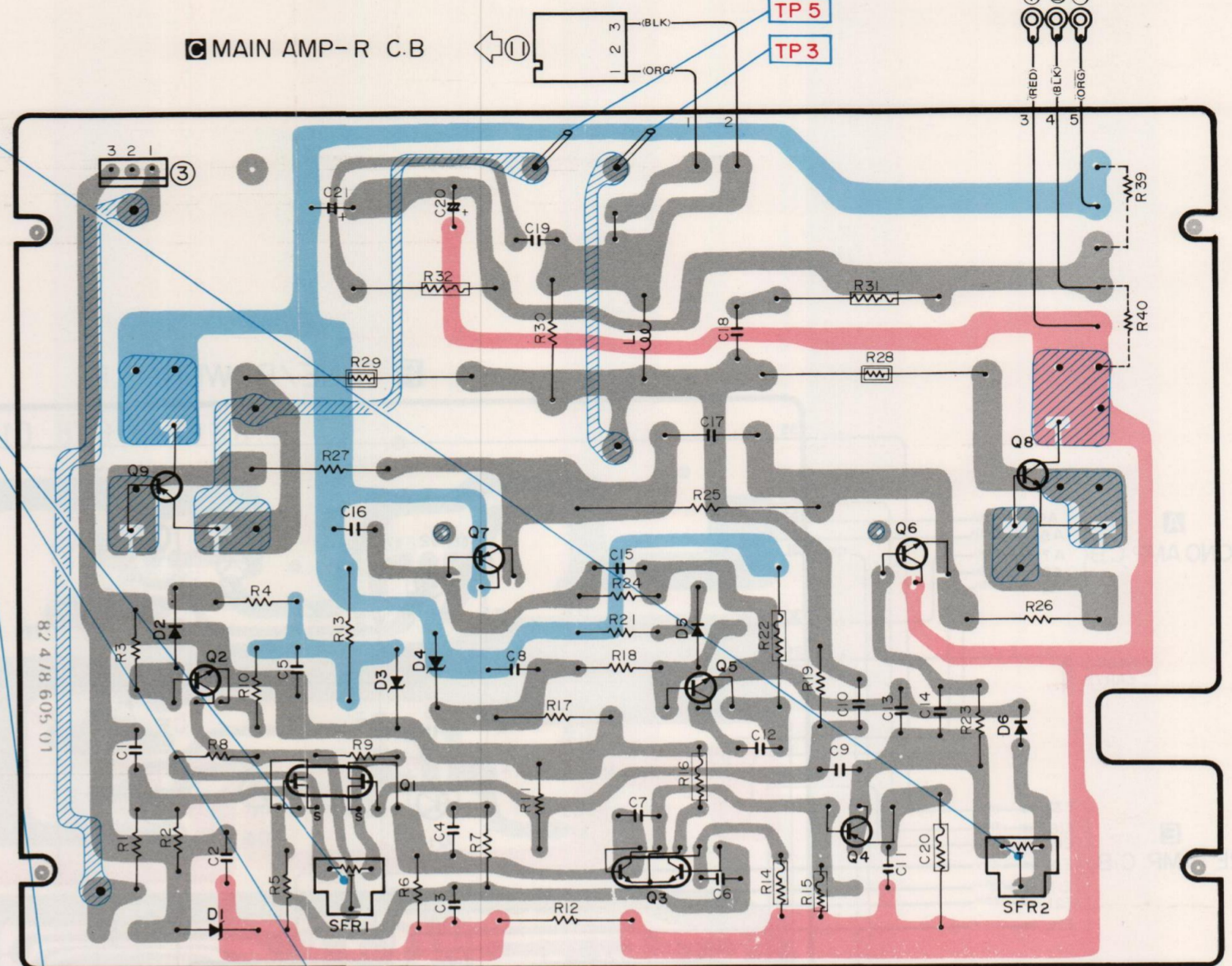
**Rating:** less than ±5 mV.

**4 Meter Amp. Adjustment**

**Settings:**

- Input signal level: Aux, 150mV (-16.5 dB), 1kHz, -36.5 dB, -56.5 dB
- Output level: 0 dB (10 W), -20 dB, -40 dB
- SELECTOR Switch: AUX
- Adjustment location: SFR1,3,5 (L-ch) SFR2,4,6 (R-ch)

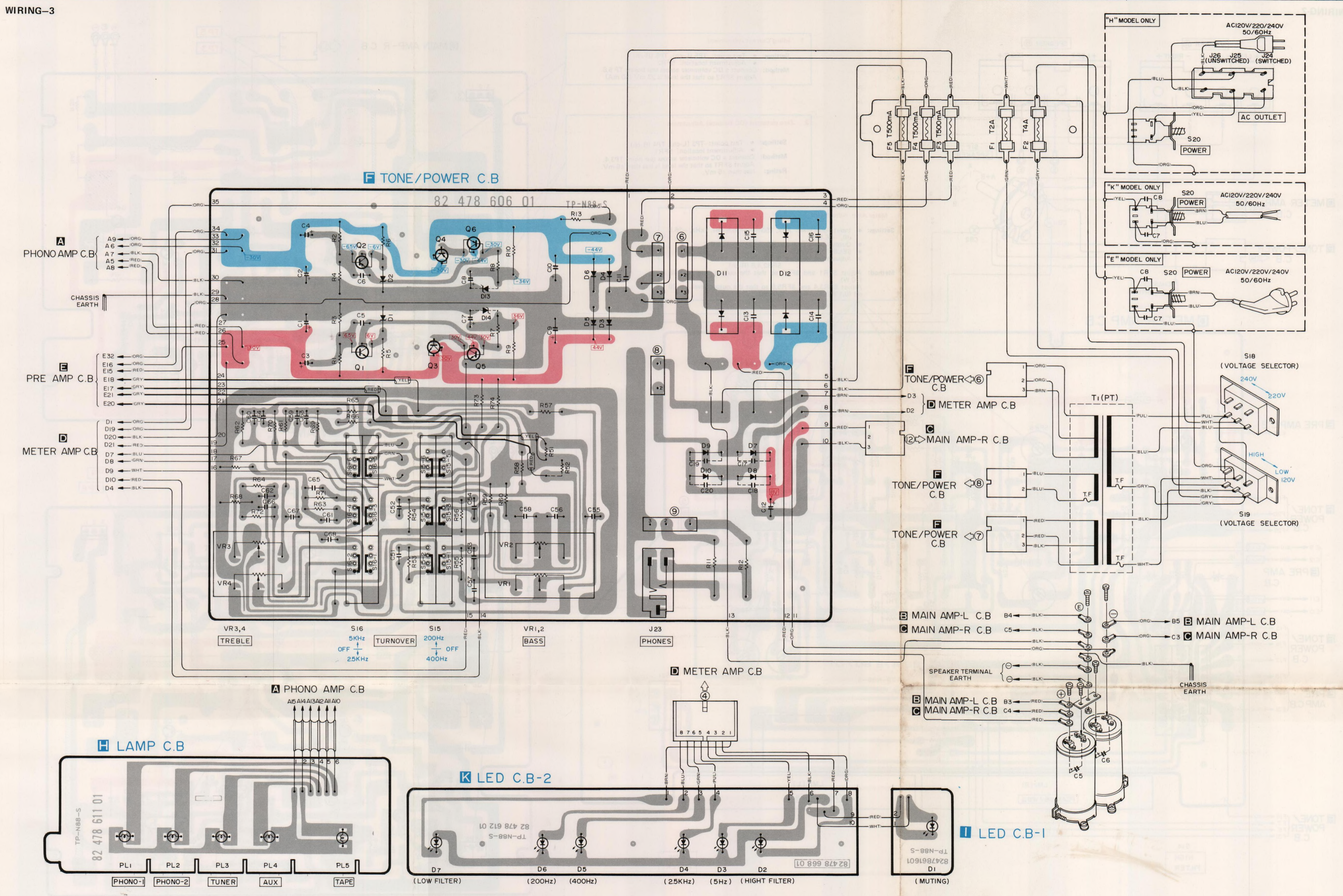
**Method:** Adjust SFR1 and SFR2 so that the output level is 0 dB (10 W). Adjust SFR3,4 and SFR5,6 so that the output level is -20 dB (0.1 W) and -40 dB (0.01 W).



**NOTES (1)** B (+) Pattern B (-) Pattern Component side pattern Others pattern (2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.

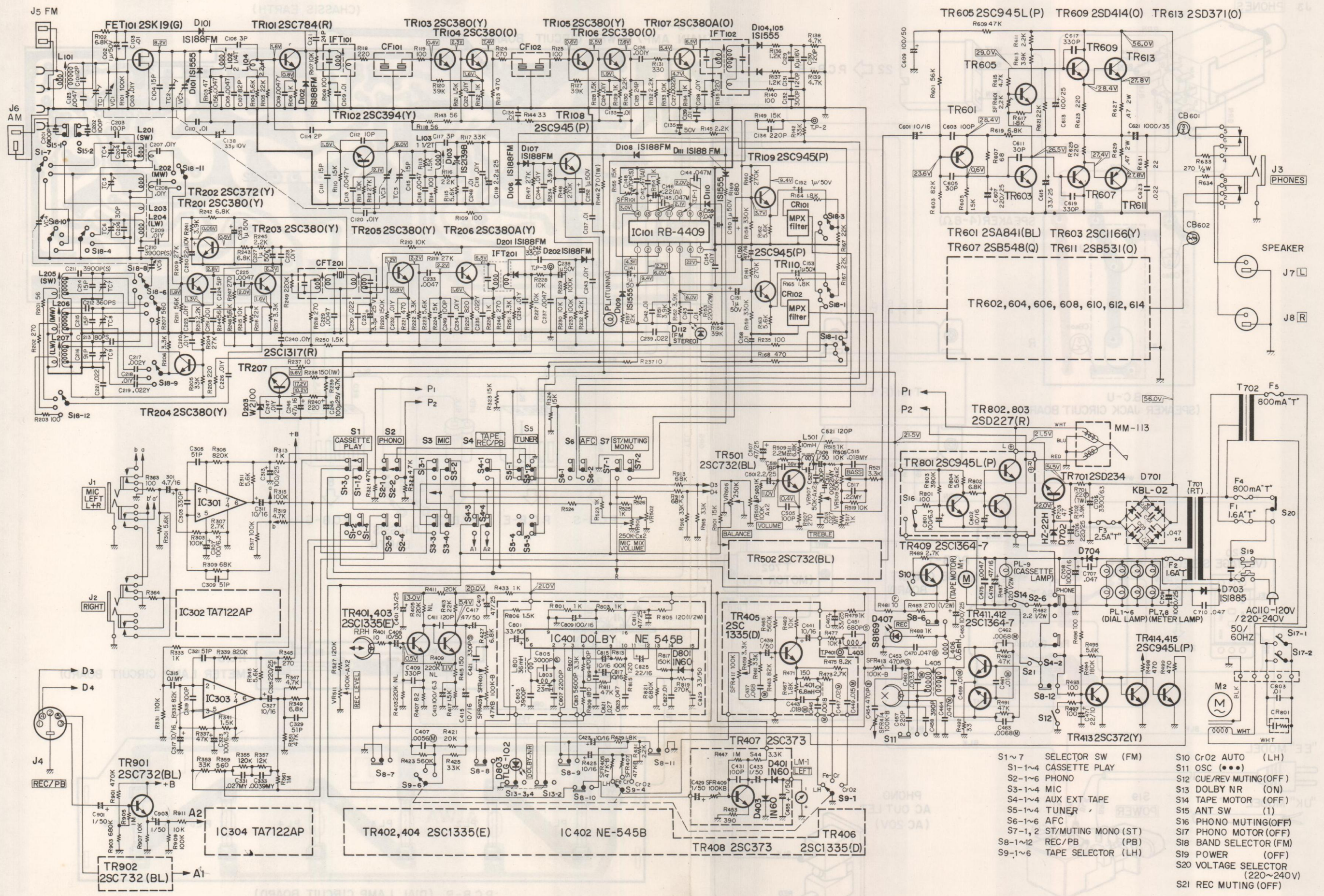
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O



**NOTES** (1) ■ B (+) Pattern ■ B (-) Pattern ■ Others pattern (2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals

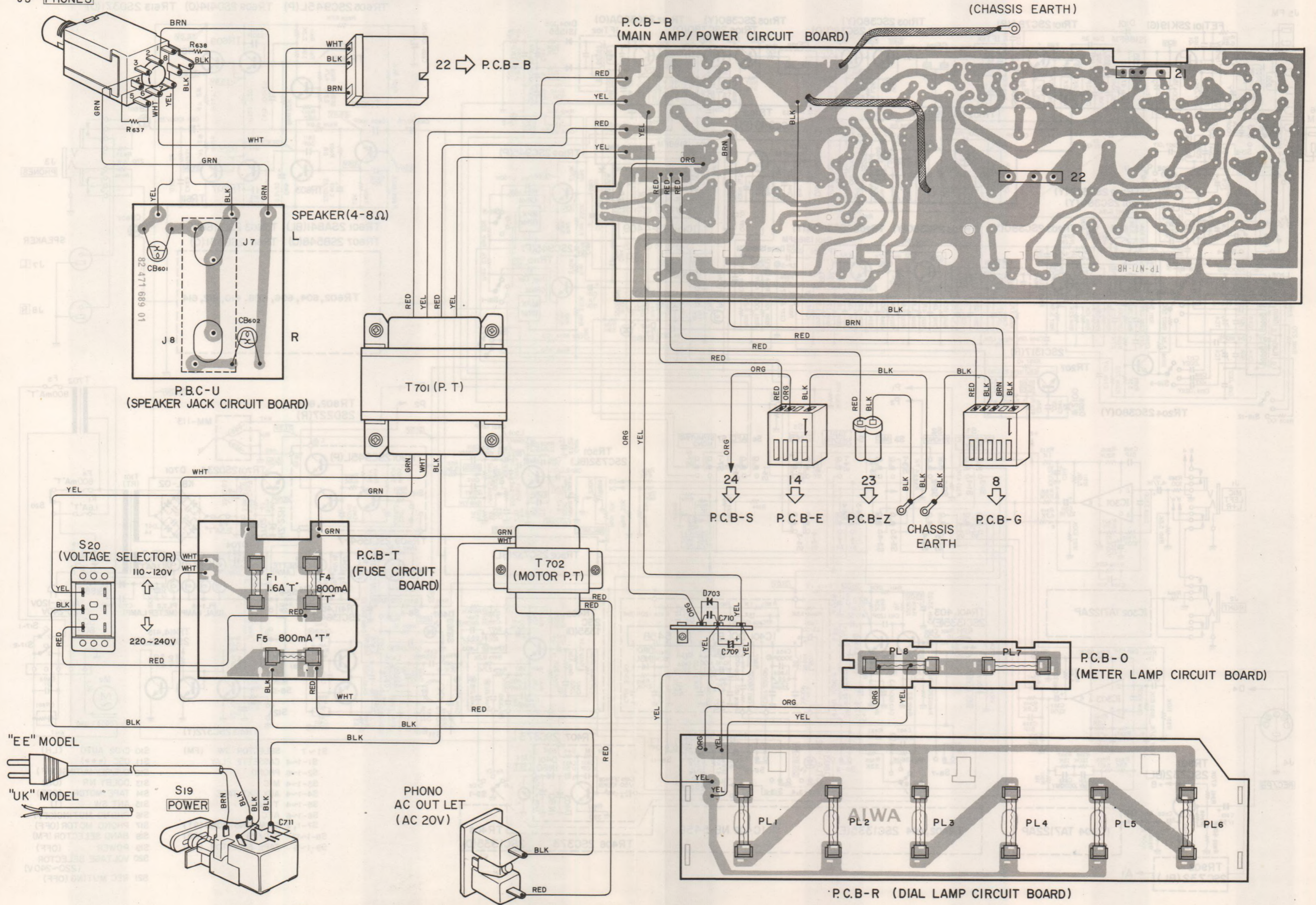
SCHEMATIC DIAGRAM



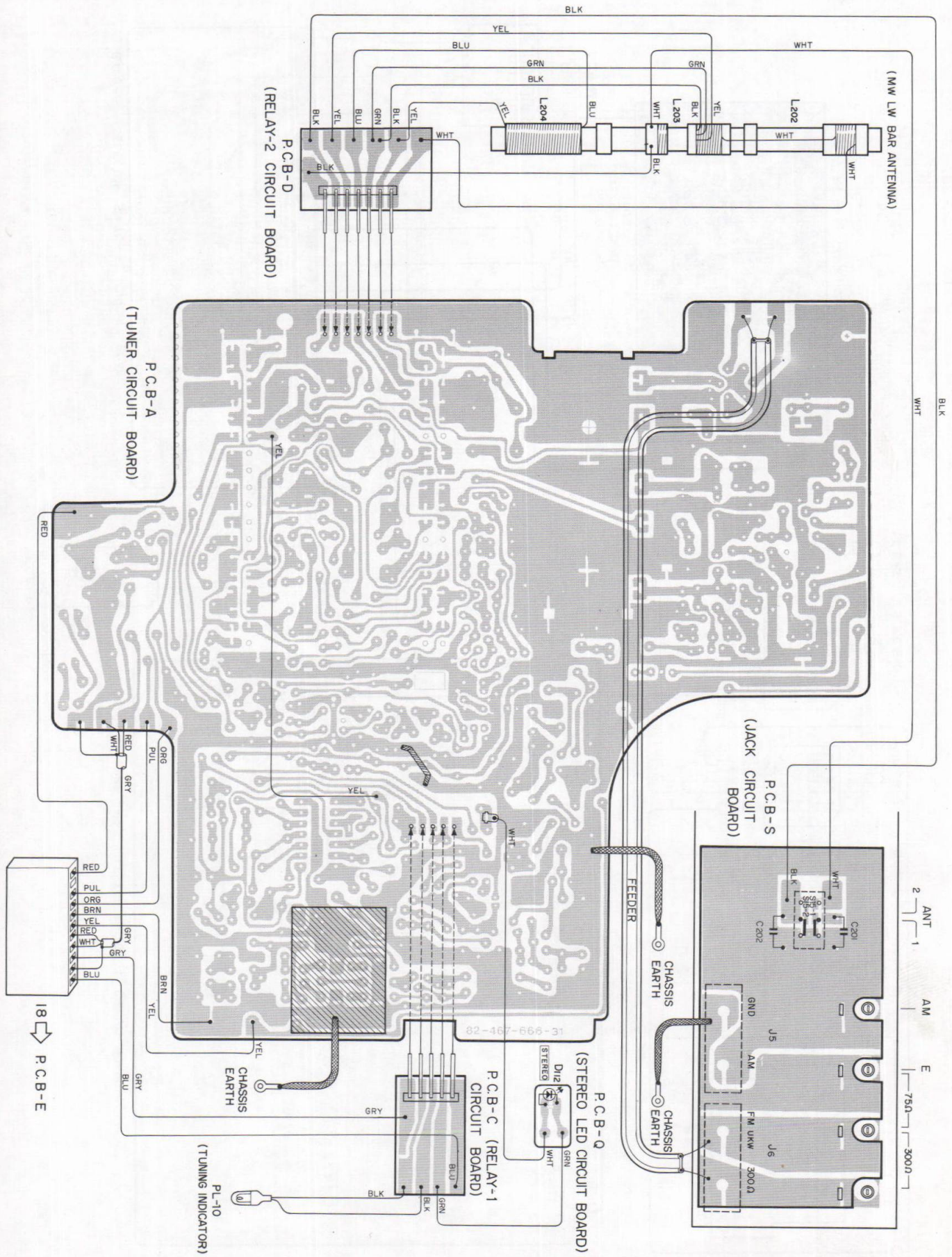
- S1~7 SELECTOR SW (FM)
- S1-1~4 CASSETTE PLAY
- S2-1~6 PHONO
- S3-1~4 MIC
- S4-1~4 AUX EXT TAPE
- S5-1~4 TUNER
- S6-1~6 AFC
- S7-1, 2 ST/MUTING MONO (ST)
- S8-1~12 REC/PB (PB)
- S9-1~6 TAPE SELECTOR (LH)
- S10 Cr02 AUTO (LH)
- S11 OSC (●●●)
- S12 CUE/REV MUTING(OFF)
- S13 DOLBY NR (ON)
- S14 TAPE MOTOR (OFF)
- S15 ANT SW (1)
- S16 PHONO MUTING(OFF)
- S17 PHONO MOTOR (OFF)
- S18 BAND SELECTOR (FM)
- S19 POWER (OFF)
- S20 VOLTAGE SELECTOR (220~240V)
- S21 REC MUTING (OFF)

WIRING-1

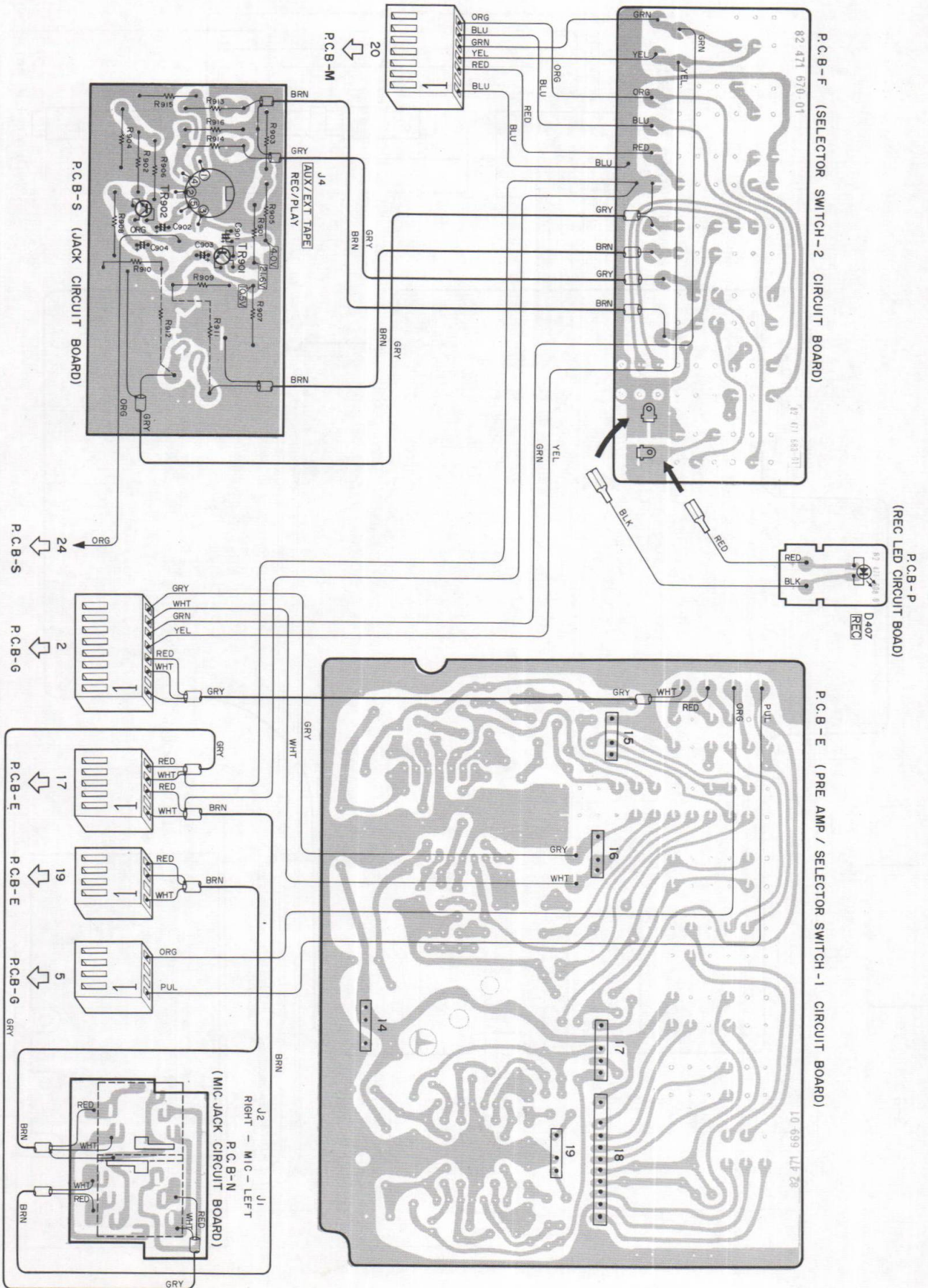
J3 PHONES



WIRING-2

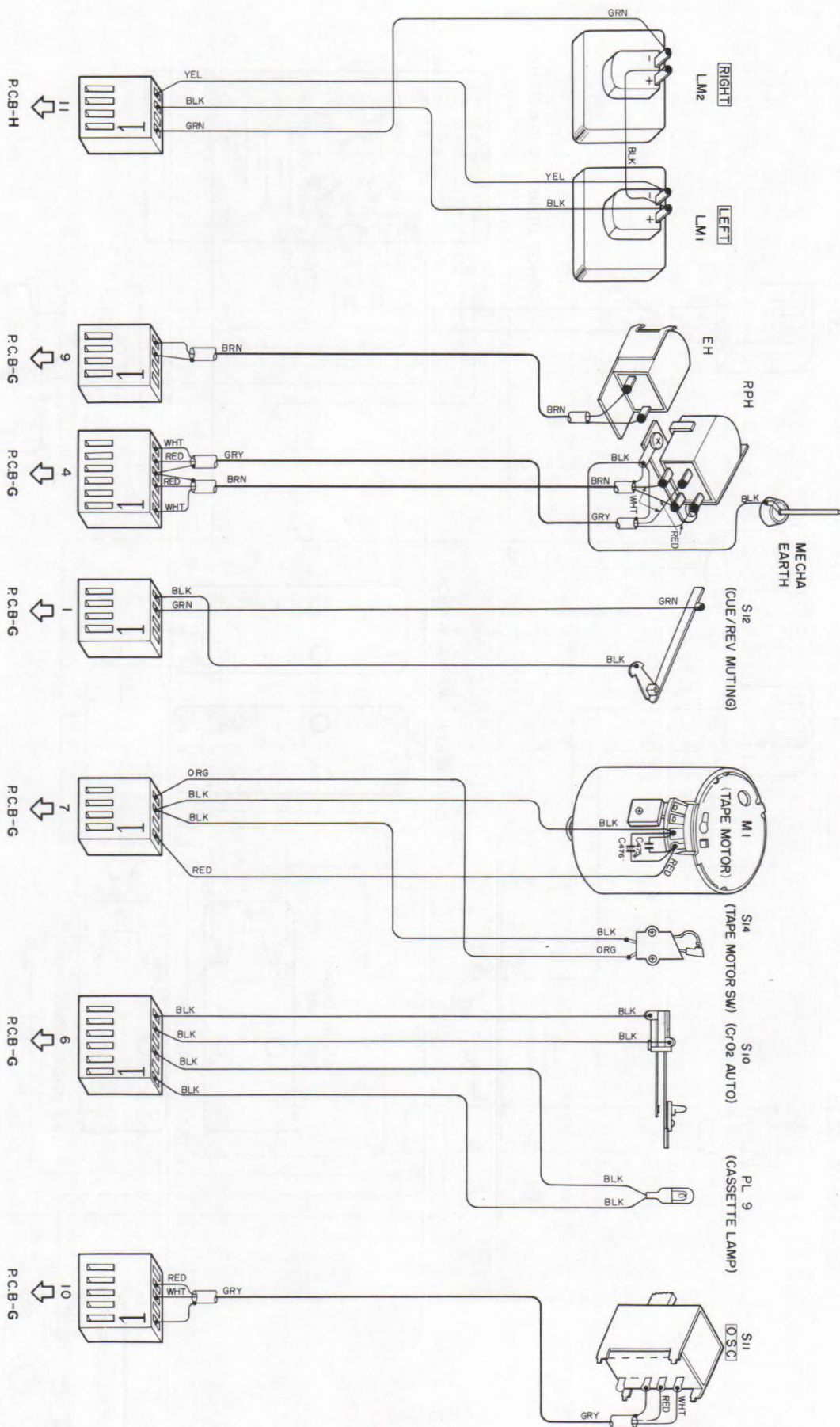


WIRING-3

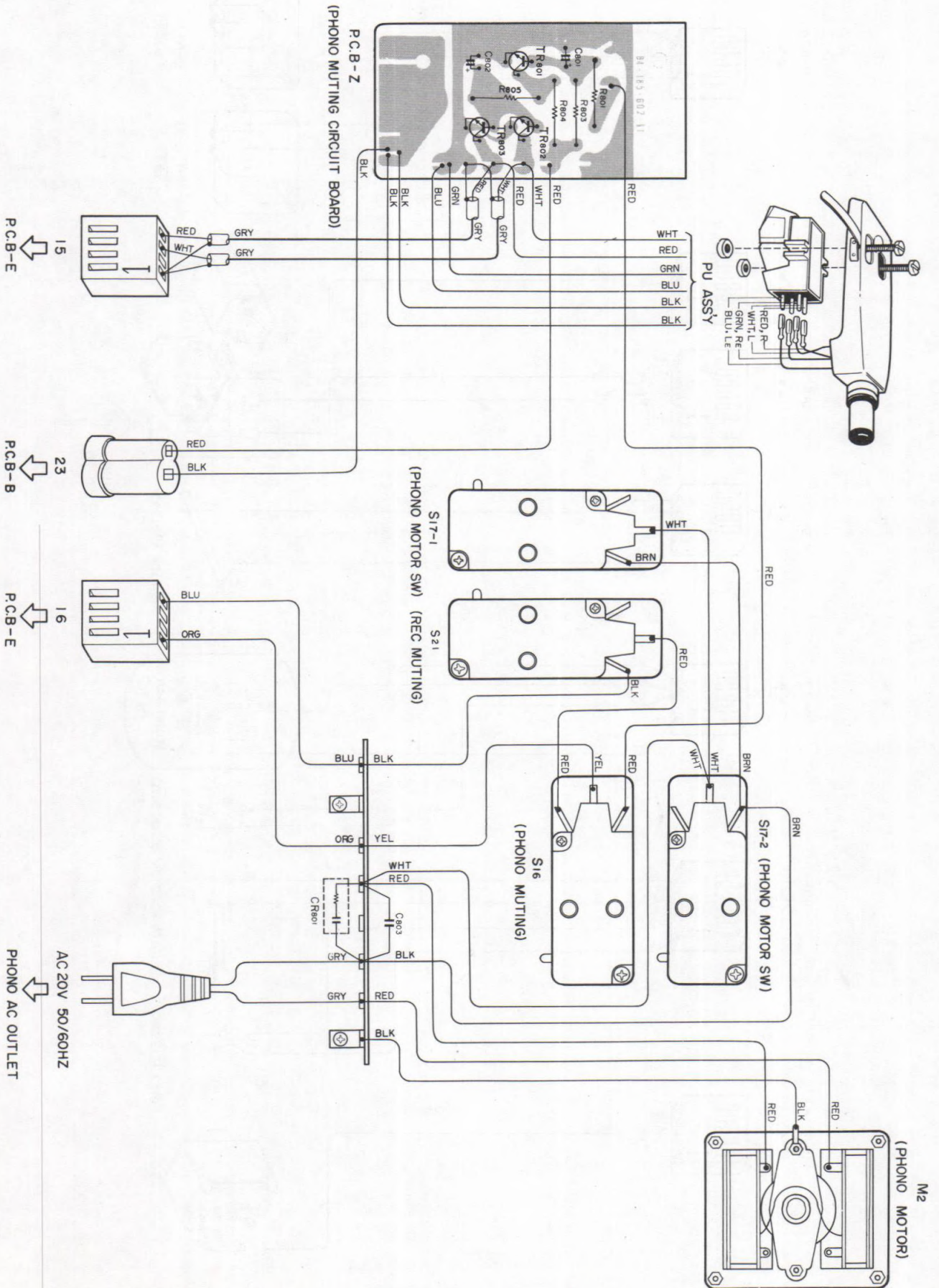




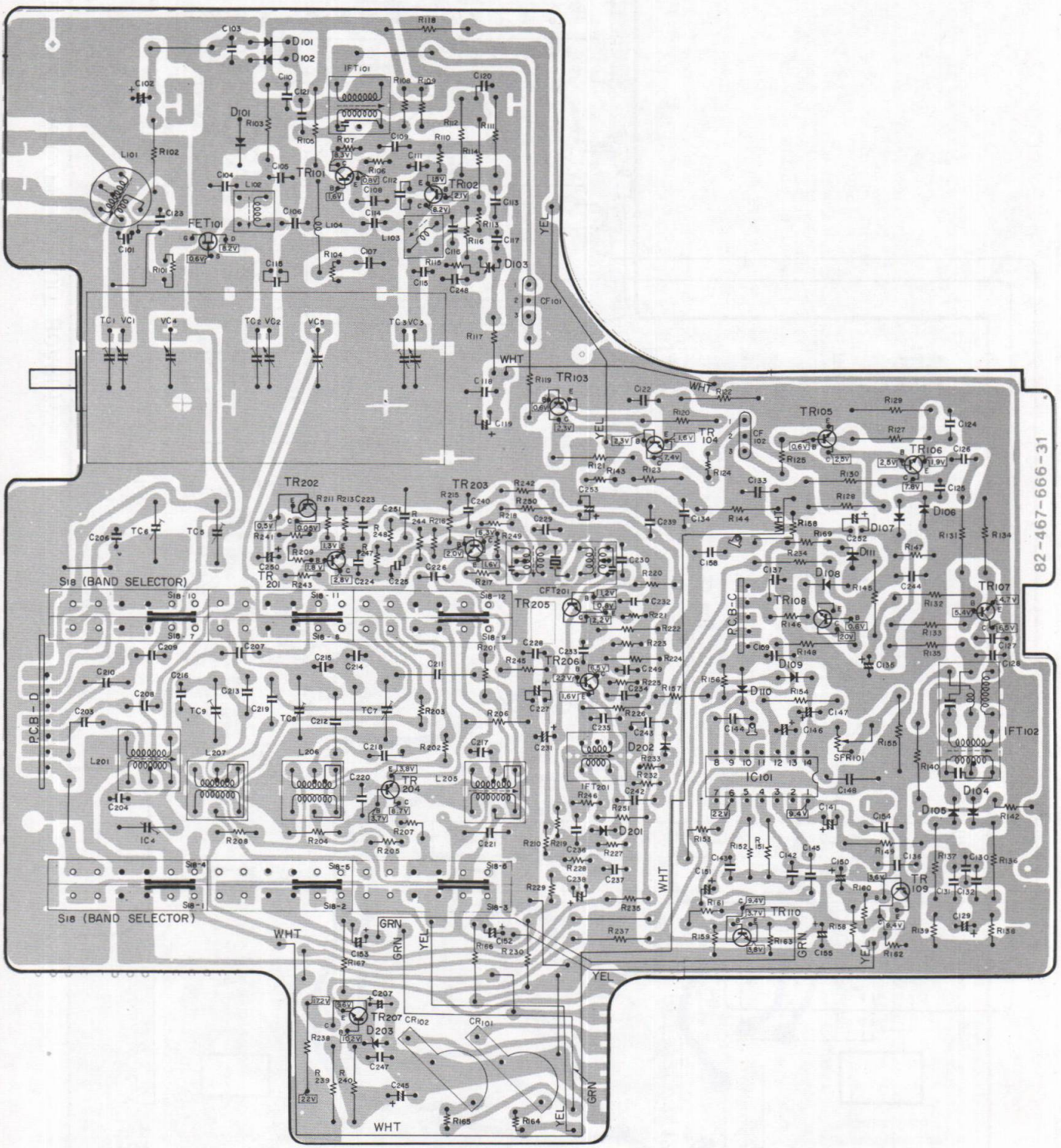
WIRING-4



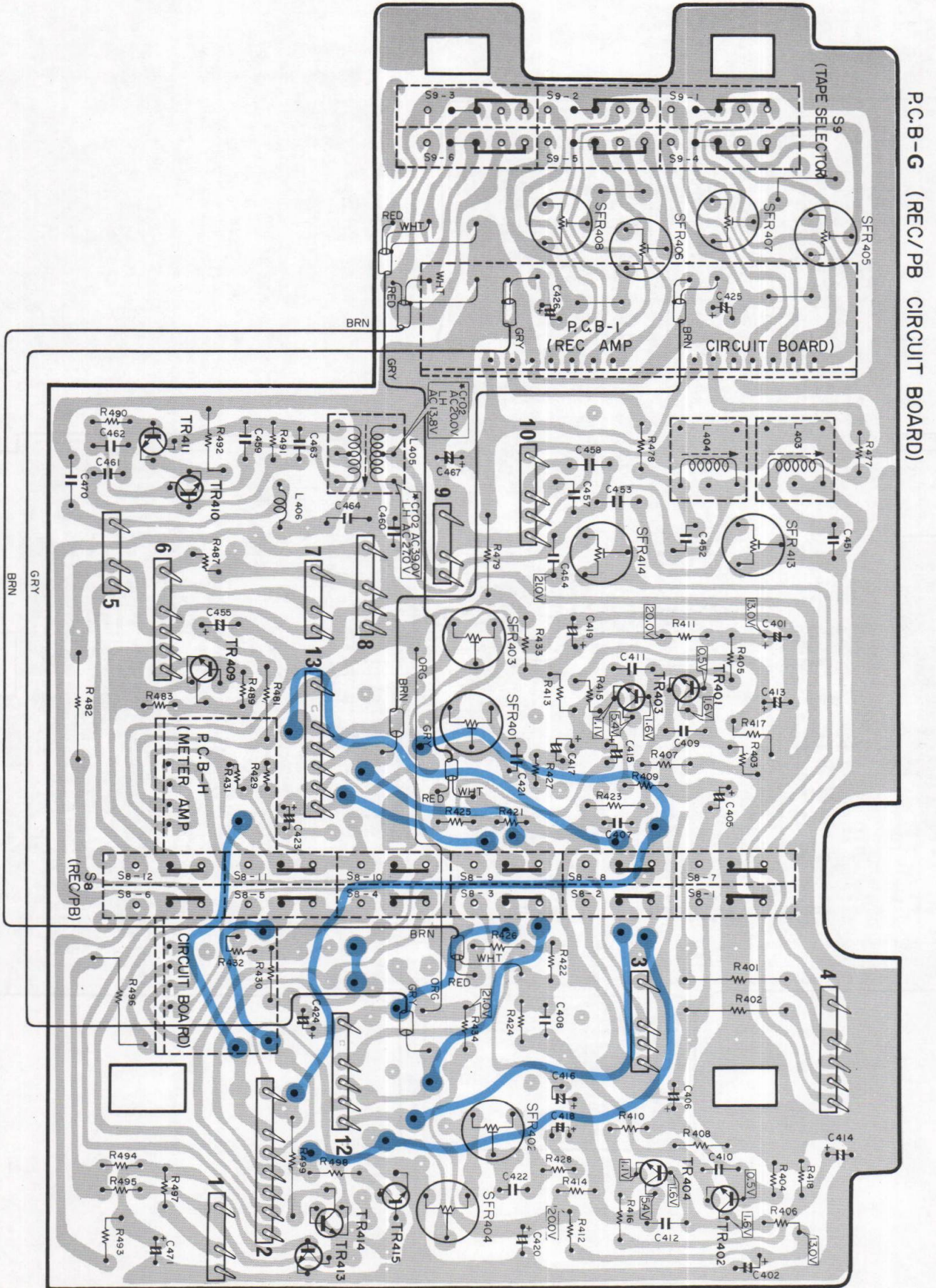
WIRING-5



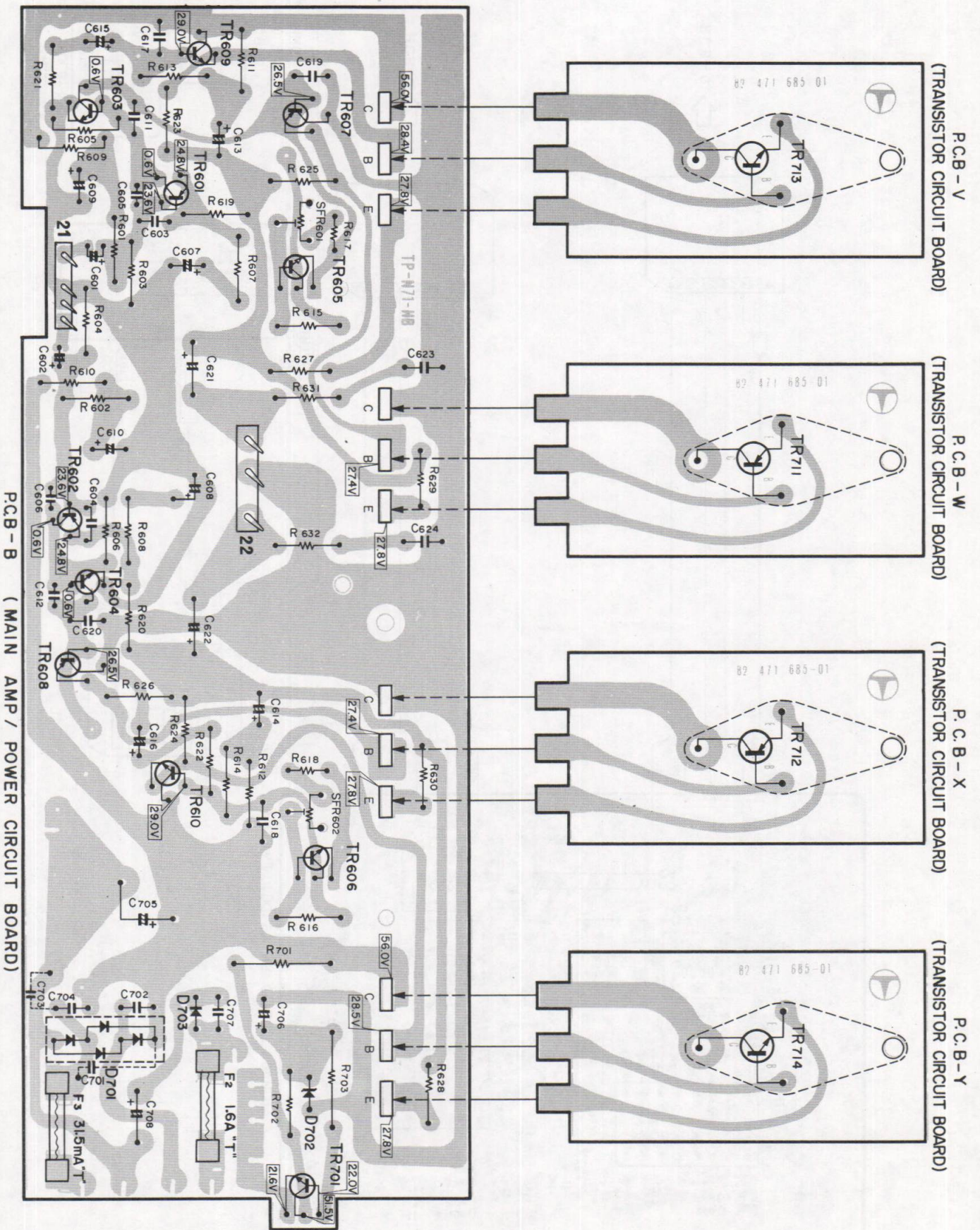
TUNER CIRCUIT BOARD



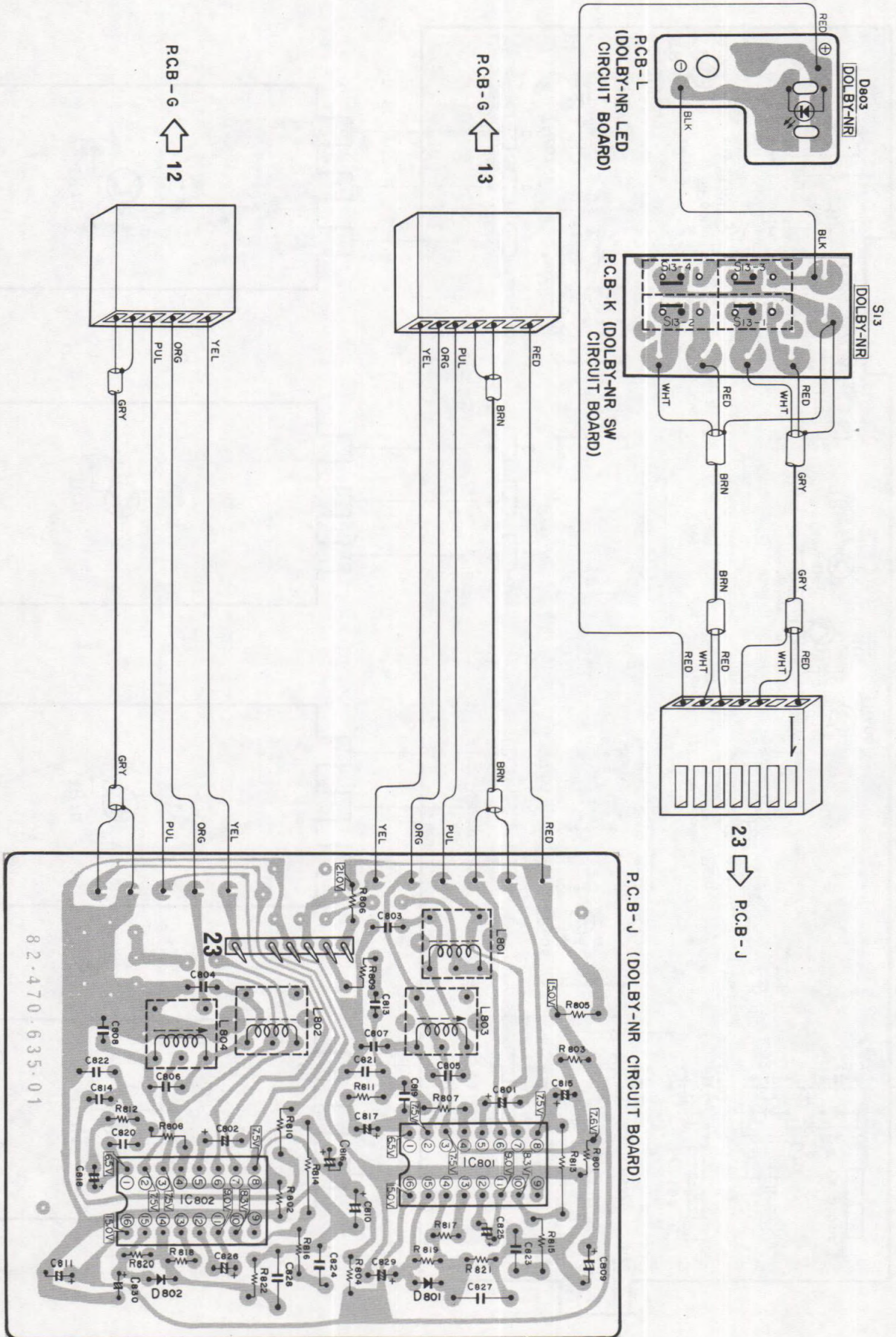
REC/PB CIRCUIT BOARD



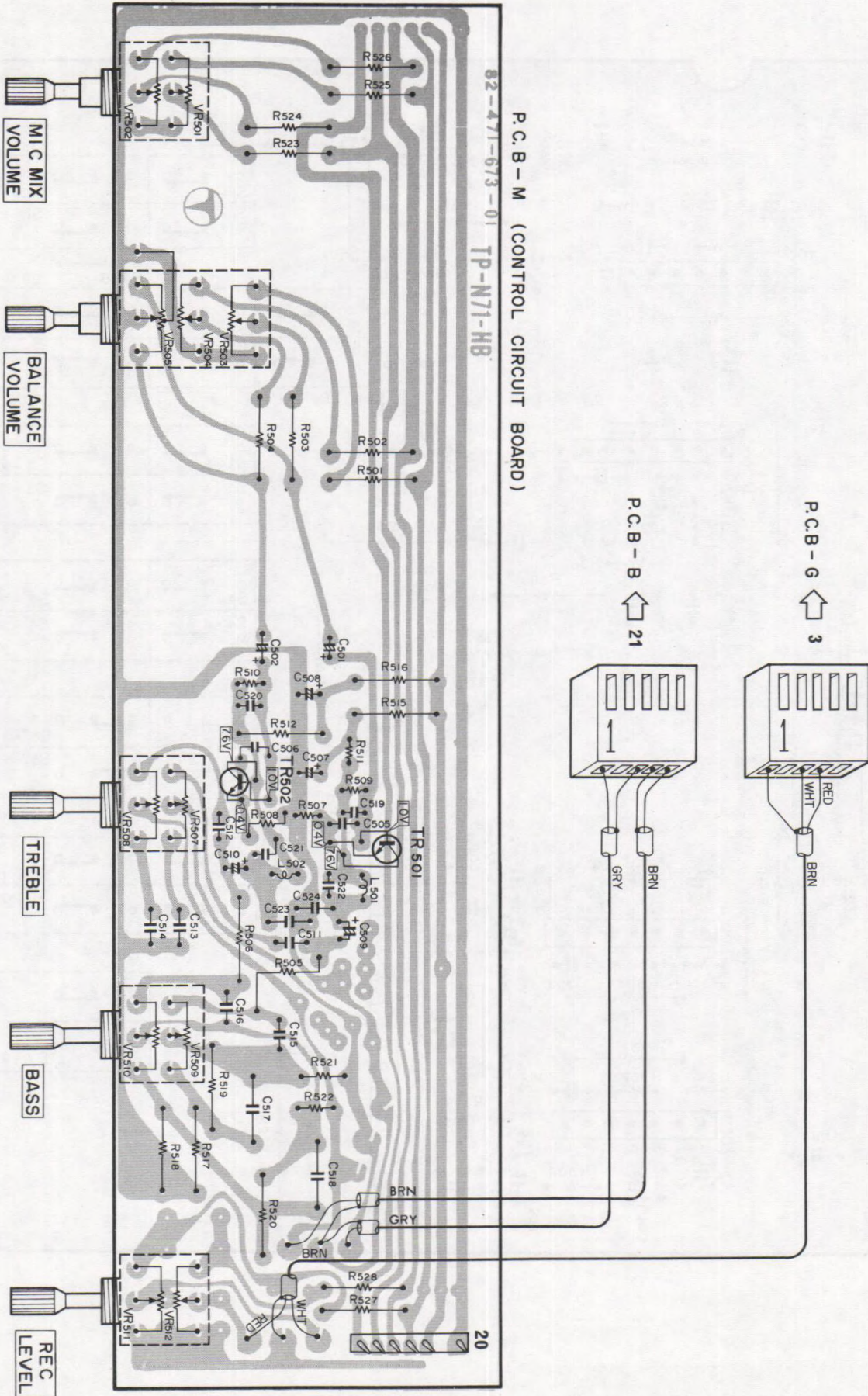
MAIN AMP/POWER CIRCUIT BOARD



DOLBY NR CIRCUIT BOARD

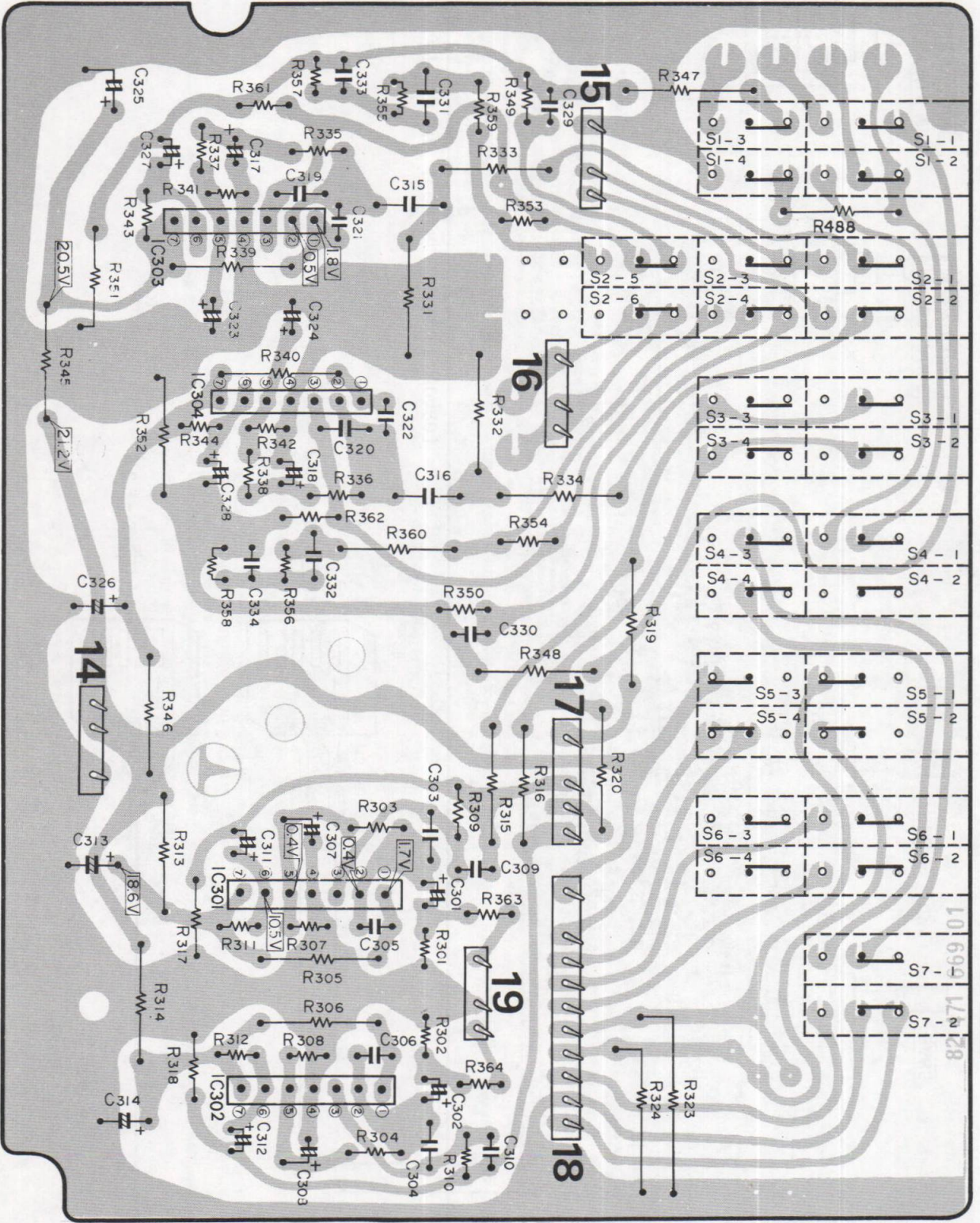


CONTROL CIRCUIT BOARD



PRE AMP/SELECTOR SWITCH-1 CIRCUIT BOARD

PCB-E (PRE AMP/SELECTOR SWITCH-1 CIRCUIT BOARD)

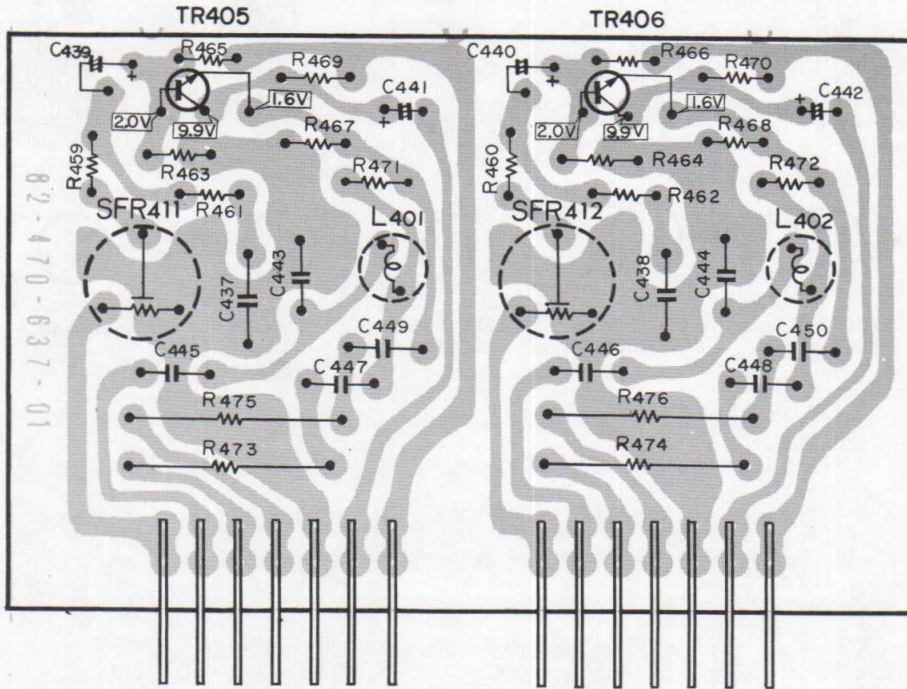


- S1 CASSETTE PLAY
- S2 PHONO
- S3 MIC
- S4 AUX EXT TAPE
- S5 TUNER
- S6 AFC
- S7 ST/MUTING MONO



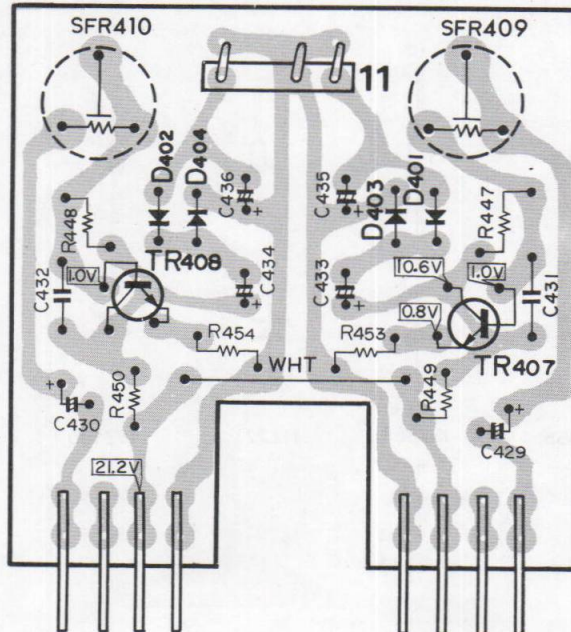
REC AMP CIRCUIT BOARD

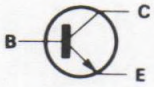
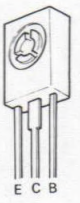
P.C.B-I (REC AMP CIRCUIT BOARD)



METER AMP CIRCUIT BOARD

P.C.B-H (METER AMP CIRCUIT BOARD)





2SC380  
2SC784  
2SC394  
2SC372  
2SC373  
2SC732

2SC1317  
2SD227

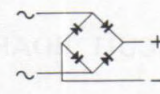
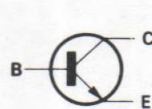
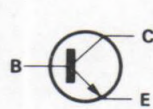
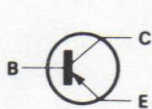
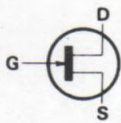
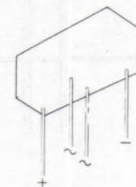
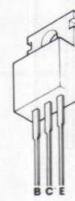
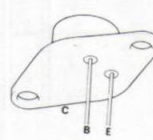
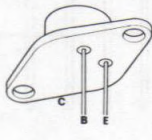
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2SC1364

2SC1335  
2SC1166

2SA495  
2SA561  
2SA841

2SB548

2SD414



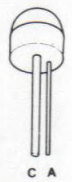
2SK49

2SB531

2SD371

2SD234

KBL-02



IS188  
IN 60

IS1555

IS1885

HZ22

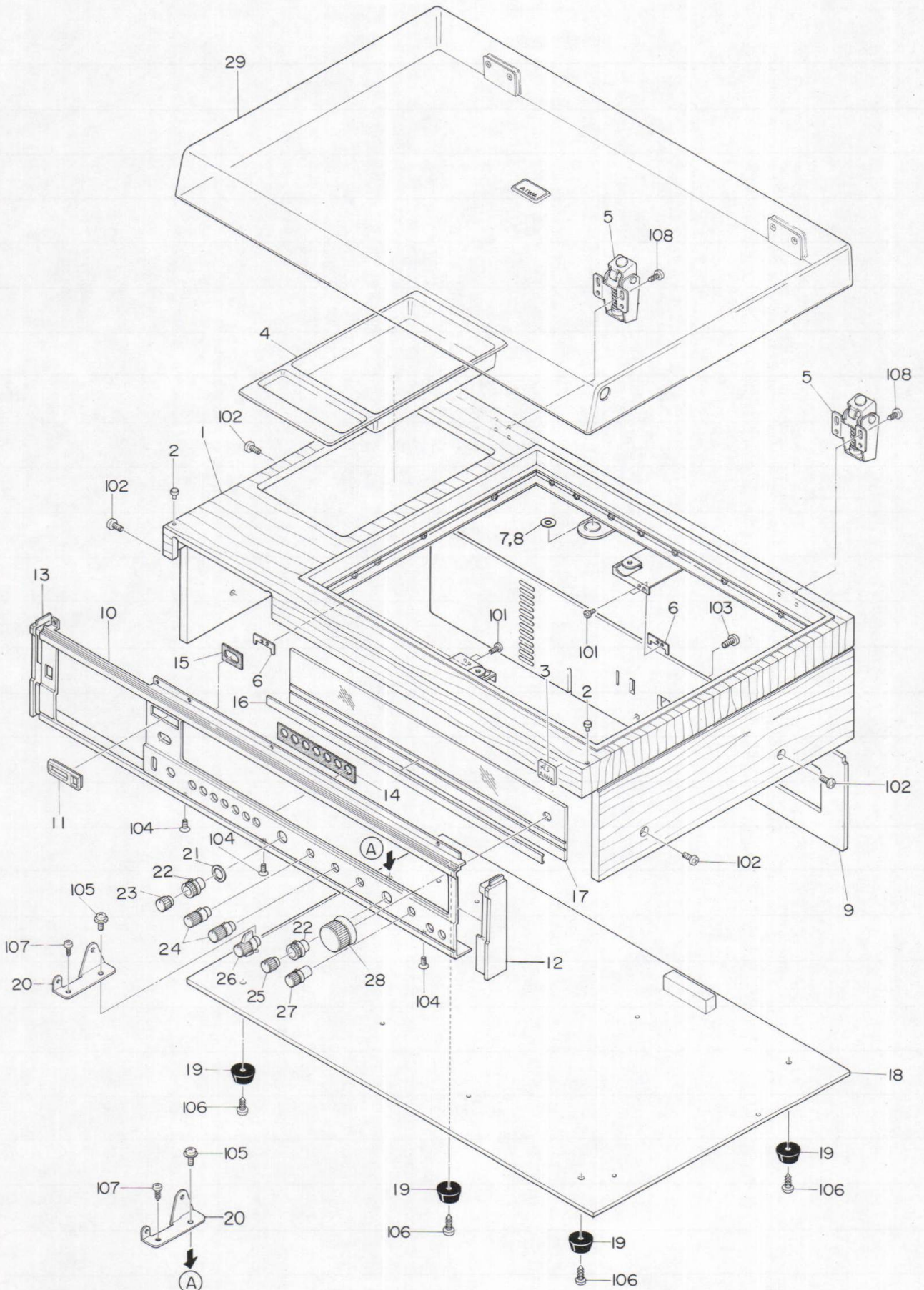
WZ100

IS2139

S8169  
TLG102



EXPLODED VIEW-1



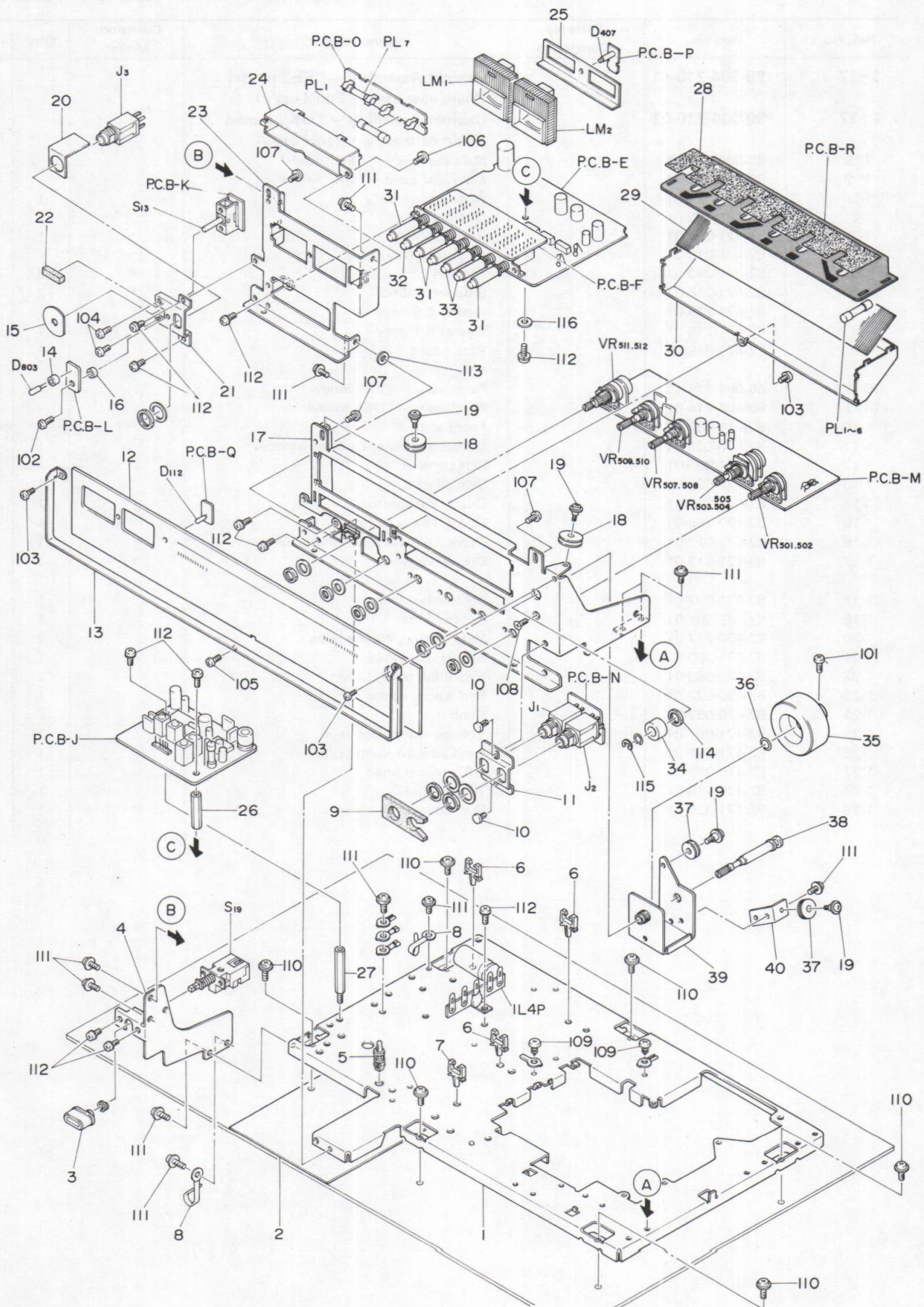
## MECHANICAL PARTS

## PARTS LIST

■ \* mark in this part list shows exclusive part (which is used) for only Model AF-5080.

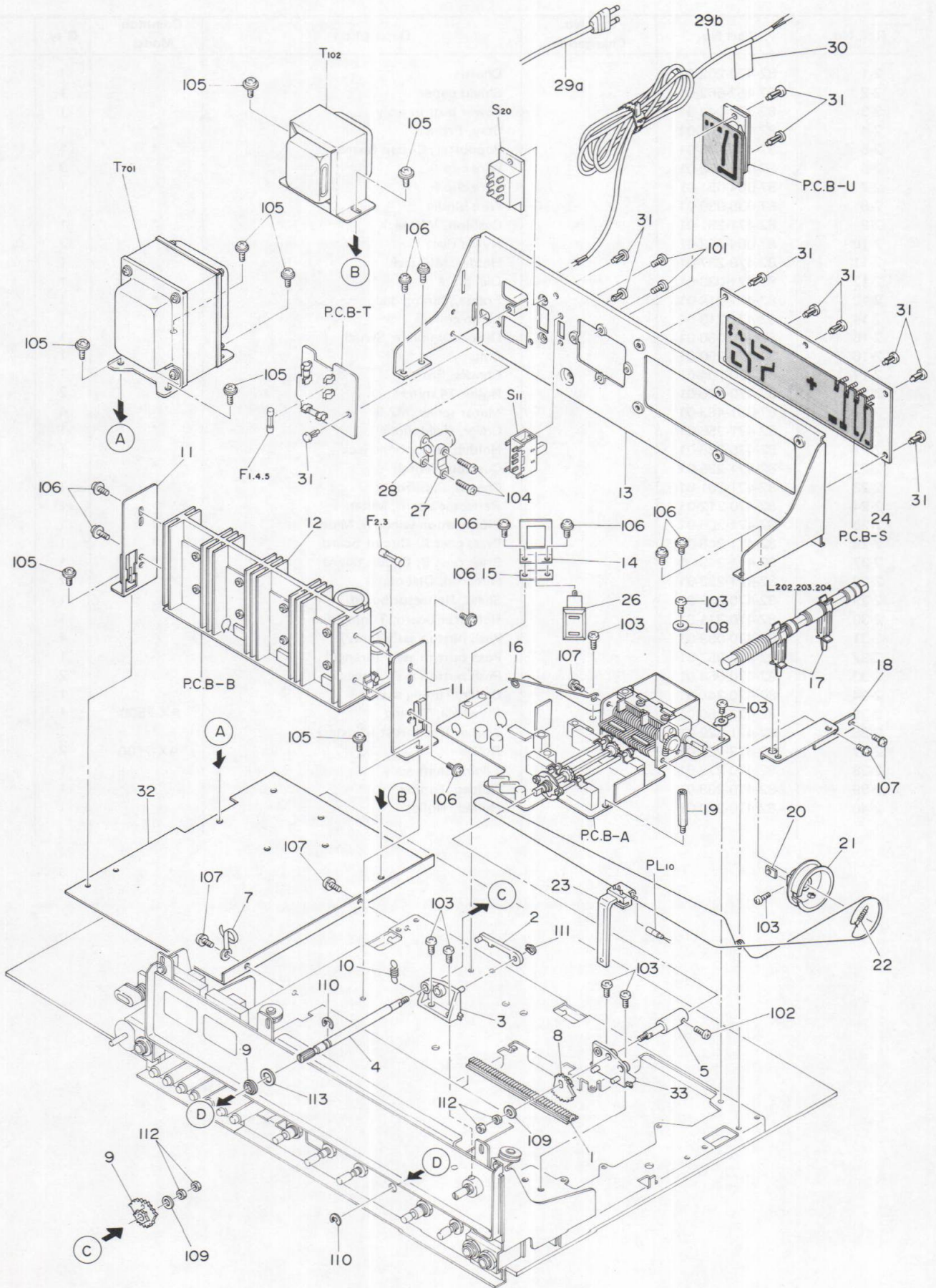
Ref. No.	Part No.	Parts No. Changed to	Description	Common Model	Q'ty
1~17	80-004-710-41		<b>Cabinet Assembly – "EE" model (Main case ass'y + Panel ass'y)</b>		
1~17	80-004-710-01		<b>Cabinet Assembly – "UK" model (Main case ass'y + Panel ass'y)</b>		
1~9	80-004-711-41		<b>Main case ass'y – "EE" model</b>		
1~9	80-004-711-01		<b>Main case ass'y – "UK" model</b>		
1-1	82-471-028-01		Wooden box ass'y	*	1
1-2	84-181-029-01		Dumper		2
1-3	82-471-034-01		Badge, AIWA	*	1
1-4	82-471-010-01		Accessory tray	*	1
1-5	82-471-243-01		Hinge A	*	2
1-6	82-471-216-01		Stopper, Phono	*	2
1-7	82-471-219-01		Washer 0.5 mmφ	*	1
1-8	82-471-215-01		Washer 0.1 mmφ	*	1
1-9	82-471-019-01		Back board	*	1
10~17	80-004-714-41		<b>Panel ass'y – "EE" model</b>		
10~17	80-004-714-01		<b>Panel ass'y – "UK" model</b>		
1-10	82-471-032-01		Front sash	*	1
1-11	82-470-028-01		Decorative plate, Counter window		1
1-12	82-471-005-01		Side panel R	*	1
1-13	82-471-006-01		Side panel L	*	1
1-14	82-470-264-01		Guide, Pushbutton		1
1-15	82-470-265-01		Guide, Power button		1
1-16	82-471-012-01		Decorative window, Tuning dial	*	1
1-17	82-471-013-01		Dial window	*	1
1-18	82-471-037-01		Bottom board ass'y	*	1
1-19	87-085-061-01		Rubber foot		4
1-20	82-470-227-01		Metal fitting, Wooden box		2
1-21	82-471-230-01		Spacer, Rec. knob	*	1
1-22	82-470-082-01		Rec. knob ass'y, Lower		2
1-23	82-470-022-01		Rec. knob, Upper		1
1-24	82-470-052-01		Knob		2
1-25	82-471-051-01		Volume Knob, Upper	*	1
1-26	82-471-041-01		Band selector knob ass'y	*	1
1-27	82-470-049-01		MIC volume knob		1
1-28	82-470-018-01		Tuning knob		1
1-29	82-471-035-01		Dust cover ass'y	*	1

EXPLODED VIEW-2



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
2-1	82-470-202-01		Chassis		1
2-2	87-457-662-01		Shield paper		1
2-3	82-470-044-01		Power button ass'y		1
2-4	82-471-204-01		Stay, Front	*	1
2-5	82-471-206-01		Supporter, Circuit board	*	1
2-6	87-064-038-01		Wire clip A		3
2-7	87-064-051-01		Wire clip F		1
2-8	87-038-039-01		Wire binder		2
2-9	82-471-251-01		Cushion, MIC jack	*	1
2-10	87-084-063-01		Nylon rivet		2
2-11	82-470-237-01		Holder, MIC jack		1
2-12	82-471-033-01		Dial plate	*	1
2-13	82-471-014-01		Frame, Tuning dial	*	1
2-14	82-471-213-01		Lamp collar	*	1
2-15	82-470-080-01		Decorative plate, Switch		1
2-16	82-471-250-01		Collar A	*	1
2-17	82-470-204-01		Chassis, Front		1
2-18	82-470-276-01		Roller 14 mmφ		2
2-19	87-081-483-01		Motor screw, M2.6		4
2-20	82-471-256-01		Cover, Headphone	*	1
2-21	82-470-238-01		Holder, Headphone jack		1
2-22	82-471-225-01		Cushion, Switch	*	1
2-23	82-471-201-01		Chassis, Sub-front	*	1
2-24	82-470-212-01		Reflector board, Meter		1
2-25	82-471-205-01		Illumination window, Meter	*	1
2-26	82-471-248-01		Brass post A, Circuit board	*	1
2-27	82-471-249-01		Brass post B, Circuit board	*	1
2-28	82-471-223-01		Himeron, Dial plate	*	1
2-29	82-470-267-01		Sheet, Reflector board		1
2-30	82-470-211-01		Reflector board, Tuning dial		1
2-31	82-470-059-01		Push button ass'y (gray)		4
2-32	82-470-057-01		Push button ass'y (orange)		1
2-33	82-470-054-01		Push button ass'y (green)		2
2-34	82-470-245-01		Collar, Tuning shaft		1
2-35	82-473-259-01		Flywheel, Tuning	AX-7500	1
2-36	82-471-229-01		Washer (for thrust adjuster)	*	1
2-37	82-473-220-01		Roller	AX-7500	2
2-38	82-470-278-01		Tuning shaft ass'y		1
2-39	82-470-208-01		Holder, Tuning		1
2-40	82-470-250-01		Holder, Roller		1

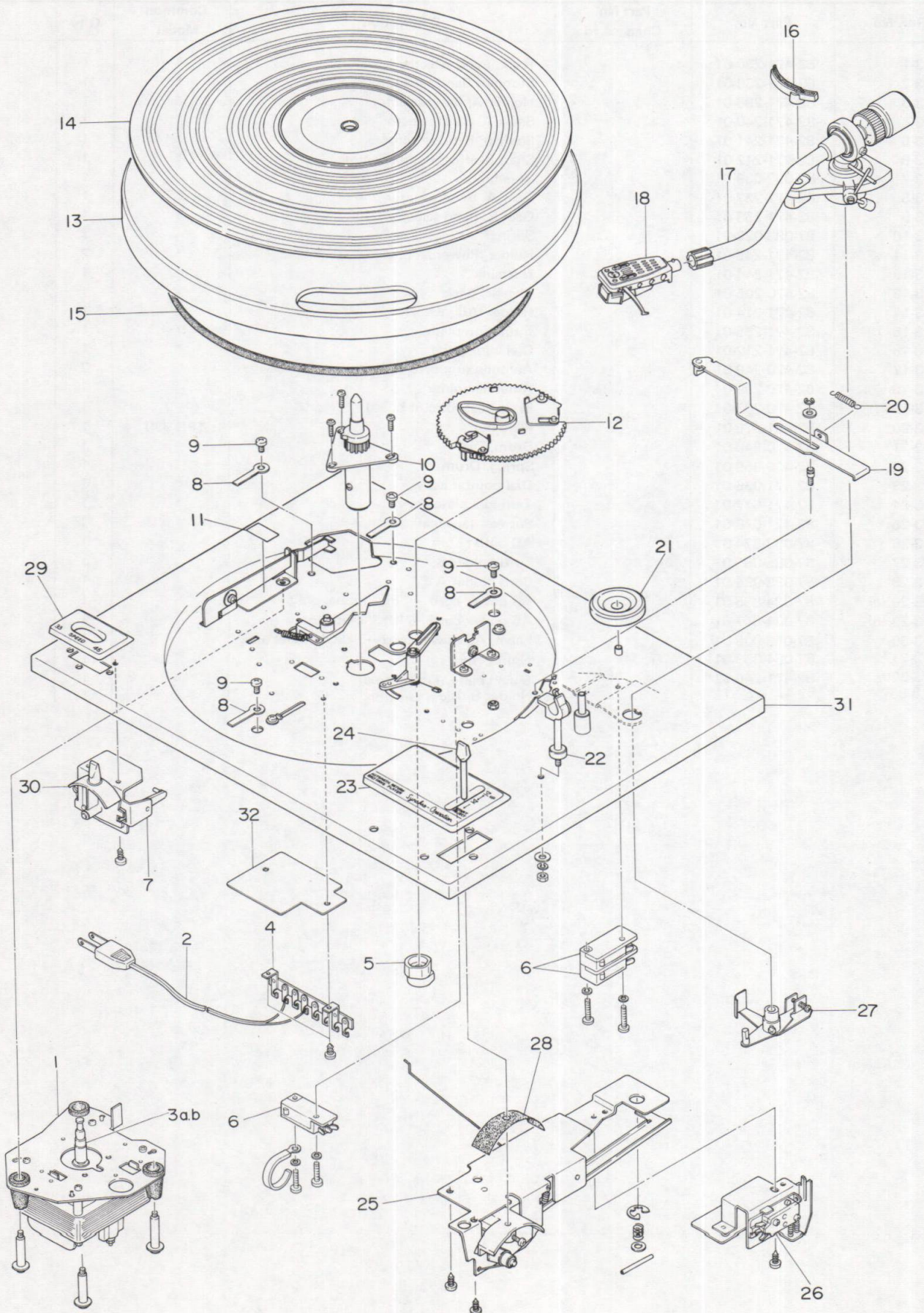
EXPLODED VIEW-3





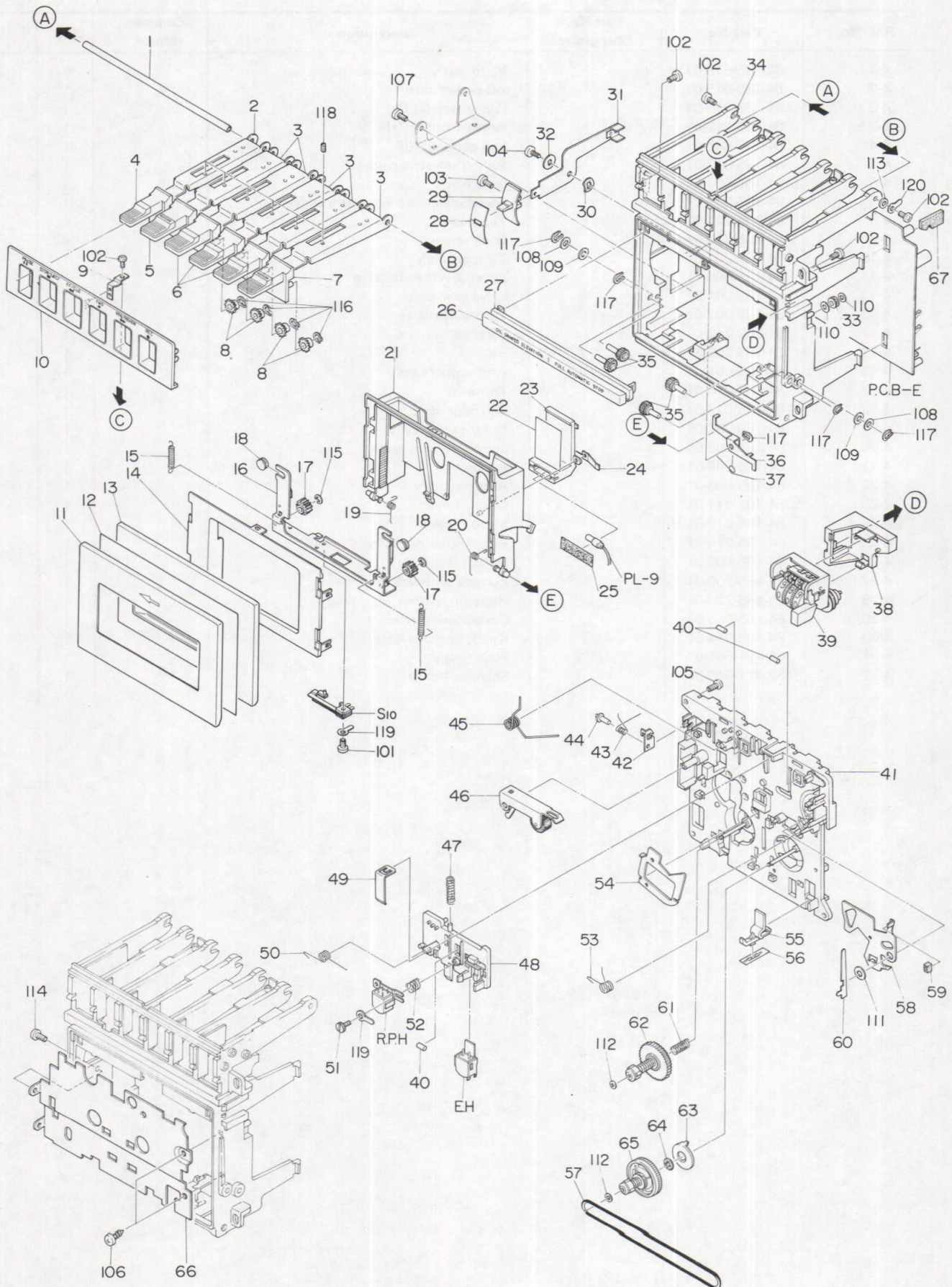
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
3-1	82-471-238-01		Rack, Band selector	*	1
3-2	82-471-239-01		Stopper, Band selector	*	1
3-3	82-471-236-01		Holder A, Band selector	*	1
3-4	82-471-240-01		Shaft A, Band selector	*	1
3-5	82-471-241-01		Shaft B, Band selector	*	1
3-6	82-471-242-01		Shaft bearing, Band selector	*	1
3-7	87-038-039-01		Wire binder		1
3-8	82-471-237-01		Gear A, Band selector	*	1
3-9	82-471-253-01		Gear B, Band selector	*	1
3-10	87-083-022-01		Spring		1
3-11	82-471-245-01		Holder, Power amp.	*	2
3-12	82-471-244-01		Heatsink	*	1
3-13	82-470-205-01		Chassis, Back		1
3-14	82-471-214-01		Holder, AC jack	*	1
3-15	82-471-255-01		Insulation plate	*	1
3-16	82-471-212-01		Dial wire guide	*	1
3-17	82-470-249-01		Antenna supporter		2
3-18	82-470-239-01		Antenna holder		1
3-19	82-470-203-01		Brass post, Circuit board		1
3-20	82-461-378-01		Plate nut	TPR-930	1
3-21	82-470-240-01		Drum, Dial		1
3-22	82-439-359-01		Spring, Drum		1
3-23	82-471-036-01		Dial pointer ass'y	*	1
3-24	82-471-677-01		Terminal plate ass'y	*	1
3-25	82-471-678-01		Speaker terminal	*	1
3-26	87-032-674-01		AC outlet		1
3-27	87-085-095-01		Cord holder B		1
3-28	87-085-094-01		Cord holder A		1
3-29 (a)	87-034-835-01		AC power cord – "EE" model only		1
3-29 (b)	87-034-847-01		AC power cord – "UK" model only		1
3-30	87-056-008-01		Label, AC power cord – "UK" model only		1
3-31	87-084-063-01		Nylon rivet		11
3-32	82-471-246-01		Shield plate, Transformer		1
3-33	82-471-252-11		Holder B, Band selector	*	1

EXPLODED VIEW-4



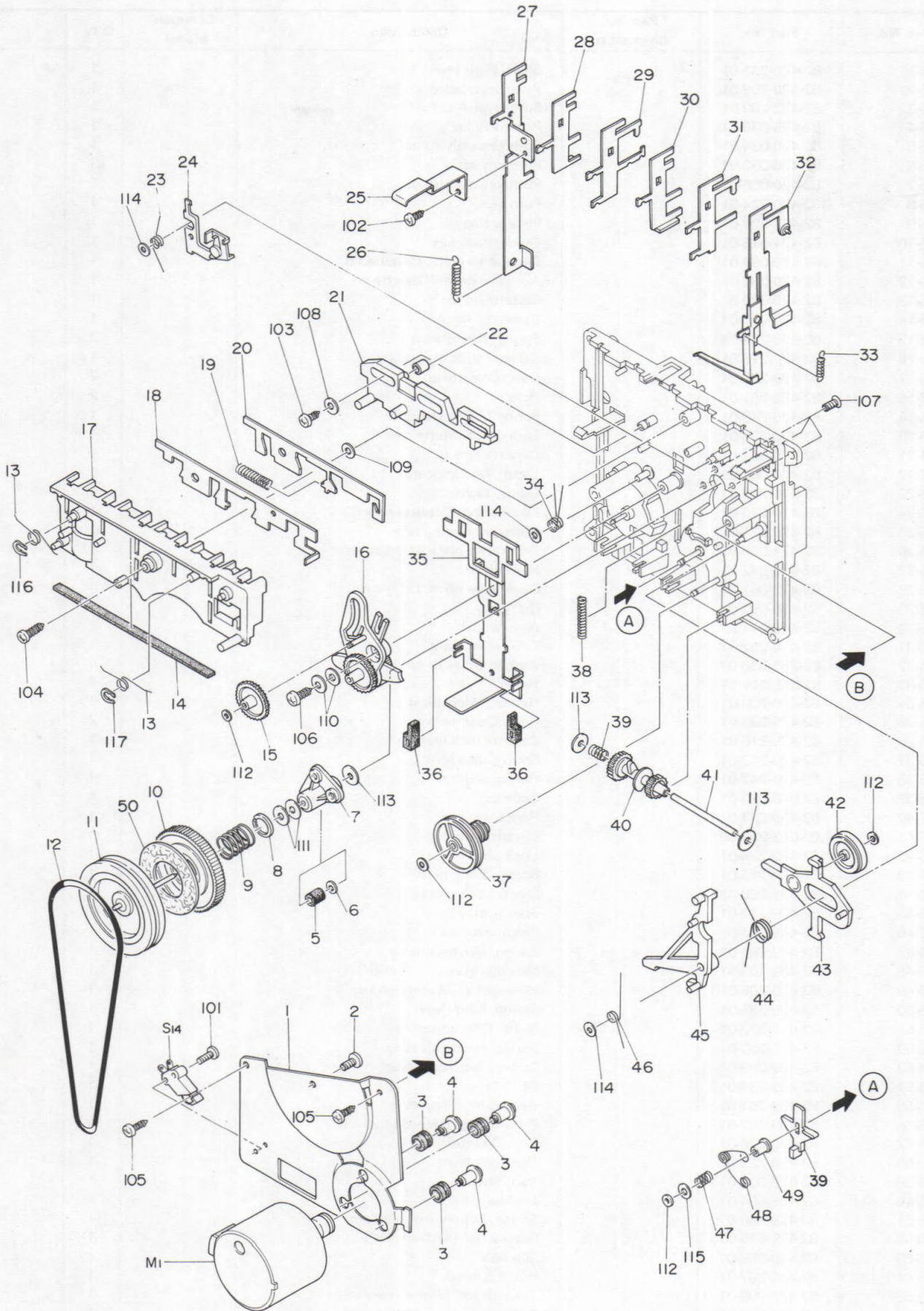
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
4-1	84-185-616-01		Motor ass'y		1
4-2	84-185-615-01		AC power cord		1
4-3 a	84-185-211-01		Pulley (for 50 Hz)		1
4-3 b	84-185-212-01		Pulley (for 60 Hz)		1
4-4	84-185-608-01		Lug plate, 2L-6P		1
4-5	84-185-017-01		Switch selective cam		1
4-6	84-185-603-01		Switch A		4
4-7	84-185-219-01		Speed selective mechanism ass'y		1
4-8	84-185-213-01		Tug washer		4
4-9	84-185-210-01		Lock screw		4
4-10	84-185-201-01		TT shaft ass'y		1
4-11	84-185-009-01		Label, Cycle indication		1
4-12	84-185-204-01		Drive gear ass'y		1
4-13	84-185-007-01		Turntable platter		1
4-14	84-182-242-01		TT sheet		1
4-15	84-185-202-01		Belt		1
4-16	84-185-004-01		Arm support ass'y		1
4-17	84-185-016-01		Tonearm		1
4-18	84-185-613-01		Cartridge ass'y		1
4-19	84-185-207-01		Return plate ass'y		1
4-20	84-185-208-01		Spring, Return plate		1
4-21	84-185-008-01		Adaptor		1
4-22	84-185-005-01		Arm rest ass'y		1
4-23	84-185-011-01		Cover, Reject		1
4-24	84-185-012-01		Knob, Reject		1
4-25	84-185-218-01		Rift mechanism ass'y		1
4-26	84-185-604-01		Switch B		1
4-27	84-185-206-01		PU lock plate ass'y		1
4-28	84-185-220-01		Himeron, Reject		1
4-29	84-185-013-01		Cover, Speed selector		1
4-30	84-185-014-01		Knob, Speed selector		1
4-31	84-471-646-01		Player ass'y		1
4-32	82-471-646-01		Shielded board		1

EXPLODED VIEW-5



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
5-1	82-470-231-01		Shaft, Push lever		1
5-2	82-470-269-01		Pause lever ass'y		1
5-3	82-470-289-01		Push lever A ass'y		5
5-4	82-470-038-01		Pause key ass'y		1
5-5	82-470-034-01		Push key ass'y (blue)		1
5-6	82-470-032-01		Push key ass'y		3
5-7	82-470-036-01		Push key ass'y (red)		1
5-8	82-470-224-01		Push gear		4
5-9	82-471-220-01		Plate spring	*	1
5-10	82-471-018-01		Guide, Push key	*	1
5-11	82-470-064-01		Decorative plate, Cassette lid		1
5-12	82-470-282-01		Adhesive paper, Cassette lid		1
5-13	82-470-029-01		Cassette lid ass'y		1
5-14	82-470-030-01		Cassette case A		1
5-15	82-470-234-01		Spring, Cassette-up		2
5-16	82-470-213-01		Cassette slide plate ass'y		1
5-17	82-470-222-01		Gear, Cassette-up		2
5-18	82-470-251-01		Roller		2
5-19	82-470-248-01		Spring L, Cassette case		1
5-20	82-470-235-01		Spring R, Cassette case		1
5-21	82-470-031-01		Cassette case B		1
5-22	82-470-068-01		Label, Tape indicator		1
5-23	82-470-217-01		Guide, Light		1
5-24	82-470-275-01		Plate spring, Cassette case B		1
5-25	82-470-221-01		Himeron, Light guide		1
5-26	82-471-065-01		Decorative plate, Head cover	*	1
5-27	82-470-042-01		Head cover		1
5-28	82-470-067-01		Decorative plate, CrO <sub>2</sub> key		1
5-29	82-470-053-01		CrO <sub>2</sub> key		1
5-30	82-416-341-01		Wave washer		1
5-31	82-410-252-01		CrO <sub>2</sub> lever ass'y		1
5-32	82-285-236-01		Washer, CrO <sub>2</sub> lever		1
5-33	81-385-014-01		Roller		4
5-34	82-470-230-01		Holder, Mechanical		1
5-35	82-470-223-01		Gear, Cassette box		2
5-36	82-470-216-01		Cassette lock lever		1
5-37	82-470-233-01		Spring, lock lever		1
5-38	82-470-242-01		Holder counter		1
5-39	87-040-083-01		Counter		4
5-40	82-439-297-01		Roller 3 mmφ		1
5-41	09-043-950-00		Chassis ass'y		1
5-42	82-422-225-01		Lock plate		1
5-43	82-439-275-01		Spring, Lock plate		1
5-44	82-439-268-01		Shaft, Lock plate		1
5-45	82-439-277-01		Spring, play lever		1
5-46	82-439-364-01		Pinch lever ass'y		1
5-47	82-439-281-01		Spring, Moving chassis		1
5-48	82-439-205-01		Moving chassis		1
5-49	82-439-206-01		Plate spring, Moving washer		1
5-50	82-439-285-01		Spring, Pinch lever		1
5-51	82-439-373-01		Shaft, RPH adjusting		1
5-52	82-439-283-01		Spring, Head adjusting		1
5-53	82-439-289-01		Spring, Rec. lock lever		1
5-54	82-439-236-01		REV. lever		1
5-55	82-439-261-01		Record-blocking lever		1
5-56	82-439-262-01		Plate spring, Record-blocking		1
5-57	82-470-226-01		Belt, Counter		1
5-58	82-439-235-01		Rec. lock lever		1
5-59	82-439-302-01		Pad, Switch		1
5-60	82-439-604-01		Leaf switch		1
5-61	82-439-380-01		Spring, Supply reel platform		1
5-62	82-439-216-01		Supply reel platform ass'y		1
5-63	82-439-358-01		Slip disk		1
5-64	82-439-367-01		Felt 7.5 mmφ		1
5-65	82-439-208-01		Take-up reel platform ass'y		1
5-66	82-470-086-01		Decorative plate, Mechanism		1
5-67	82-470-292-01		Cushion, Circuit board		2

EXPLODED VIEW-6



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
6-1	82-470-218-01		Holder, Motor		1
6-2	82-331-107-01		Screw for thrust		1
6-3	82-416-299-01		Rubber cushion	TPR-601	3
6-4	87-081-483-01		Motor screw M2.6		3
6-5	82-439-292-01		Drive roller		1
6-6	82-439-385-01		Oil stopper		1
6-7	82-439-250-01		Shaft bearing ass'y		1
6-8	82-439-354-01		Washer 12.4 mmφ		1
6-9	82-439-246-01		Spring, Flywheel		1
6-10	82-439-355-01		Gear, Slip		1
6-11	82-470-255-01		Flywheel ass'y		1
6-12	82-470-225-01		Belt, Main		1
6-13	82-439-351-01		Spring, Pushbutton		2
6-14	82-439-331-01		Rubber cushion		1
6-15	82-439-356-01		FR gear B		1
6-16	82-439-218-01		FR lever ass'y		1
6-17	82-439-207-01		Back board		1
6-18	82-439-234-01		Slide plate B		1
6-19	82-439-284-01		Spring, Slide plate		1
6-20	82-439-233-01		Slide plate A		1
6-21	82-439-225-01		FR slide board		1
6-22	82-439-226-01		Collar, FR slide board		1
6-23	82-439-280-01		Spring, Release lever		1
6-24	82-439-360-01		Release lever ass'y		1
6-25	82-470-221-01		Plate spring, Rec. lever		1
6-26	82-470-277-01		Spring, Rec. lever		1
6-27	82-471-228-01		Rec. lever A	*	1
6-28	82-439-230-01		REW lever		1
6-29	82-439-345-01		Play lever		1
6-30	82-439-232-01		FF lever		1
6-31	82-439-231-01		Stop lever		1
6-32	82-439-263-01		Pause lever ass'y		1
6-33	82-439-267-01		Spring, Pause lever		1
6-34	82-439-290-01		Spring, FR slide board		1
6-35	82-439-269-01		Plate, Brake		1
6-36	82-439-260-01		Brake shoe		2
6-37	82-439-296-01		Worm gear ass'y		1
6-38	82-439-371-01		Spring, Brake		1
6-39	82-439-357-01		Slider		1
6-40	82-439-346-01		Worm wheel ass'y		1
6-41	82-439-300-01		Shaft, Worm wheel		1
6-42	82-285-255-01		Play idler ass'y		1
6-43	82-439-259-01		Lever, Play idler		1
6-44	82-439-286-01		Spring, Play idler lever		1
6-45	82-439-255-01		Kick lever		1
6-46	82-439-287-01		Spring, Kick lever		1
6-47	82-439-369-01		Spring A, Slider		2
6-48	82-439-288-01		Spring B, Slider		1
6-49	82-439-368-01		Bushing		1
6-50	82-439-289-01		Felt 24mmφ		1

Ref. No.	Part No.	Description	Q'ty
1-101	87-261-070-01	V ⊕ 2.6-3	4
1-102	87-251-171-11	U ⊕ 4-10	4
1-103	87-250-095-11	U ⊕ 3-8 (black)	1
1-104	87-231-071-01	Q ⊕ 2.6-4	3

Ref. No.	Part No.	Description	Q'ty
1-105	87-081-490-01	Special screw ⊕4-8	2
1-106	87-341-097-01	UT <sub>1</sub> ⊕ 3-12	4
1-107	87-341-094-01	UT <sub>1</sub> ⊕ 3-6	2
1-108	87-341-402-01	UT <sub>1</sub> ⊕ 3-8 (black)	8

Ref. No.	Part No.	Description	Q'ty
2-101	87-261-073-01	V ⊕ 2.6-6	1
2-102	87-261-072-01	V ⊕ 2.6-5	1
2-103	87-261-032-01	V ⊕ 2-3	2
2-104	87-261-070-01	V ⊕ 2.6-3	3
2-105	87-251-034-01	U ⊕ 2-5	1
2-106	87-251-073-01	U ⊕ 2.6-6	1
2-107	87-251-071-01	U ⊕ 2.6-4	3
2-108	87-231-071-01	Q ⊕ 2.6-4	1

Ref. No.	Part No.	Description	Q'ty
2-109	87-341-074-01	UT <sub>1</sub> ⊕ 2.6-8	2
2-110	87-081-490-01	Special Screw ⊕4-8	6
2-111	87-081-497-01	Special Screw ⊕3-5	12
2-112	87-480-093-11	VS ⊕ 3-5	11
2-113	87-081-252-01	W3-8-0.5	1
2-114	87-081-253-11	N-9	1
2-115	87-441-011-01	STE-4	1

Ref. No.	Part No.	Description	Q'ty
3-101	87-261-070-01	V ⊕ 2.6-3	2
3-102	87-261-072-01	V ⊕ 2.6-5	1
3-103	87-251-094-11	U ⊕ 3-6	8
3-104	87-251-100-11	U ⊕ 3-16	2
3-105	87-081-490-01	Special screw ⊕4-8	8
3-106	87-081-497-01	Special screw ⊕3-5	10

Ref. No.	Part No.	Description	Q'ty
3-107	87-480-093-11	VS ⊕ 3-5	5
3-108	87-410-317-01	W3-10-0.8	1
3-109	87-410-311-01	W2.6-7.5-0.5	2
3-110	87-441-011-01	STE-4	2
3-111	87-081-190-01	STP-2.5	1
3-112	87-391-015-01	N-2.6	4

Ref. No.	Part No.	Description	Q'ty
5-101	87-251-035-01	U ⊕ 2-6	1
5-102	87-251-073-01	U ⊕ 2.6-6	4
5-103	87-253-071-01	U ⊕ 2.6-4	1
5-104	87-251-094-01	VT <sub>1</sub> ⊕ 3-6	1
5-105	87-341-095-01	UT <sub>1</sub> ⊕ 3-8	1
5-106	87-341-071-01	UT <sub>1</sub> ⊕ 2.6-5 (black)	2
5-107	87-341-094-01	UT <sub>1</sub> ⊕ 3-8	1
5-108	87-410-313-01	W3-6-0.5	2
5-109	87-410-312-01	W3-6-0.3	2
5-110	87-081-300-01	FW2.6-6-0.5	2


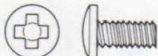
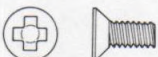
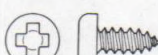
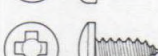
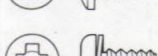

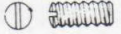

Ref. No.	Part No.	Description	Q'ty
5-111	87-081-014-01	FW3-8-0.3	1
5-112	87-081-489-01	PW1.7-3.5-0.25	2
5-113	87-432-903-01	WT1E2.6	1
5-114	87-251-072-01	U ⊕ 2.6-5	2
5-115	87-441-008-01	STE-2.5	2
5-116	87-442-004-01	STP-4	4
5-117	87-442-003-01	STP-3	5
5-118	87-374-031-01	SS ○ 2-2	6
5-119	87-450-411-01	LB-1	2
5-120	87-450-412-01	LB-2	1






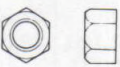
Ref. No.	Part No.	Description	Q'ty
6-101	87-251-036-01	U ⊕ 2-8	1
6-102	87-253-071-01	U ⊕ 2.6-4	1
6-103	87-351-035-01	VT <sub>1</sub> ⊕ 2-6	1
6-104	87-351-102-01	VT <sub>1</sub> ⊕ 3-20	1
6-105	87-341-074-01	UT <sub>1</sub> ⊕ 2.6-8	2
6-106	87-341-075-01	UT <sub>1</sub> ⊕ 2.6-10	1
6-107	87-329-074-01	QT <sub>1</sub> ⊕ 2.6-8 (black)	3
6-108	87-410-305-01	W2-6-0.4	1

Ref. No.	Part No.	Description	Q'ty
6-109	87-410-314-01	W3-8-0.3	1
6-110	87-410-311-01	W2.6-7.5-0.5	2
6-111	87-081-319-01	TW2.3-8-0.2	2
6-112	87-081-489-01	PW1.7-3.5-0.25	4
6-113	87-081-492-01	PW2.1-8-0.13	3
6-114	87-081-484-01	PW3-6-0.25	3
6-115	87-081-030-01	FW2-6-0.5	1
6-116	87-442-003-01	STP-3	1
6-117	87-442-004-01	STP-4	1

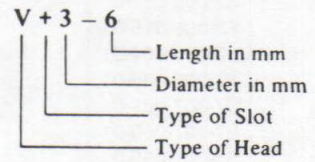
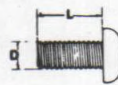


**HARDWARE NOMENCLATURE**

<b>V:</b>	Pan head screw	
<b>U:</b>	Binding head screw	
<b>Q:</b>	Flat countersunk head screw	
<b>VT<sub>1</sub>:</b>	Pan head tapping screw	
<b>UT<sub>1</sub>:</b>	Binding head tapping screw	
<b>VS:</b>	Pan head screw with spring washer	
<b>QT<sub>1</sub>:</b>	Flat countersunk head tapping screw	
<b>SS:</b>	Set screw	
	Special screw	

<b>STE:</b>	E ring (washer)	
<b>STP:</b>	Powerful stop ring	
<b>WTIE:</b>	Crown washer	
<b>W:</b>	Washer	
<b>FW:</b>	Fibre washer	
<b>TW:</b>	Tefron washer	
<b>PW:</b>	Poly-slider washer	
<b>LB:</b>	Lug terminal plate	
<b>N:</b>	Nut	

**Example:**



## ELECTRICAL PARTS

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
<b>◀TUNER CIRCUIT BOARD SECTION▶</b>					
PCB-A	82-467-666-31		Tuner circuit board		1
TR101	89-307-842-01		Transistor 2SC-784(R)		1
TR102	89-303-944-01		Transistor 2SC-394(Y)		1
TR103,105, 201,203, 205	89-303-804-01		Transistor 2SC-380(Y)		5
TR104,106, 204	89-303-803-01		Transistor 2SC-380(O)		3
TR107	87-026-045-01		Transistor 2SC-380A(O)		1
TR109,110 108	89-309-456-01		Transistor 2SC 945(P)		3
TR202	89-303-724-01		Transistor 2SC-372(Y)		1
TR206	87-026-046-01		Transistor 2SC-380A(Y)		1
TR207	89-313-172-01		Transistor 2SC-1317(R)		1
FET101	87-026-100-01		FET 2SK-49(Hz)		1
IC101	87-027-156-01		IC KB4409		1
D104,105,109, 110	87-027-097-01		Diode IS-1555		4
D103	87-026-049-01		Diode IS-2139(B)		1
D101,102,106, 107,108,111, 201,202	88-052-188-11		Diode IS-188(FM)		8
D203	87-027-142-01		Zener diode WZ100		1
L101	82-471-663-01		FM coil	*	1
L102	87-006-017-01		FM coil (2-1/4T)		1
L103	87-006-015-01		FM coil (1-1/2T)		1
L104	82-470-604-01		FM choke coil (2.2μH)		1
L201	87-006-039-01		SW antenna coil		1
L205	87-007-067-01		SWOSC coil		1
L206	87-007-066-01		MWOSC coil		1
L207	87-007-065-01		LWOSC coil		1
IFT101	84-173-614-01		FM IFT		1
IFT102	87-008-161-01		FM IFT (Ratio)		1
IFT201	87-008-160-01		AM IFT		1
CF101,102	87-008-158-01		FM ceramic filter 10.7MHz		2
CFT201	87-008-118-01		AM ceramic filter trans,455kHz (EE model only)		1
CFT201	87-008-152-01		AM ceramic filter trans,468kHz (UK model only)		1
VC1~5, TC1~3	82-471-662-01		VC	*	1
TC4,5,7,8	87-011-046-01		Trimmer (1T-8M)		4
TC6,9	87-011-050-01		Trimmer (1T-16M)		2
CR101,102	87-028-011-01		MPX filter		2
S18	82-471-666-01		Rotary switch (BAND SELECTOR)	*	1
SFR101	87-021-366-01		Semi-fixed resistor, 10KΩ-B		1
	82-467-211-01		Shield case		1
	82-467-706-01		Shield cap		1
	87-033-092-01		PCB tab, A		3
			<Resistors>		
R143,201	88-181-560-01		56Ω 1/4W ±5% ELR		1
R108,109,140 203,235	88-181-101-01		100Ω 1/4W ±5% ELR		4
R208	88-181-221-01		220Ω 1/4W ±5% ELR		1
R246,247,124, 218,202	88-181-271-01		270Ω 1/4W ±5% ELR		5
R168,221	88-181-471-01		470Ω 1/4W ±5% ELR		2
R207	88-181-561-01		560Ω 1/4W ±5% ELR		1
R169	88-181-681-01		680Ω 1/4W ±5% ELR		1
R225	88-181-821-01		820Ω 1/4W ±5% ELR		1
R106,226,153	88-181-102-01		1kΩ 1/4W ±5% ELR		3
R113,250,110	88-181-152-01		1.5kΩ 1/4W ±5% ELR		3

Symbol No.	Part No.	Part No. Changed to	Description				Common Model	Q'ty
R164,165	88-181-182-01		1.8k $\Omega$	1/4W	$\pm 5\%$	ELR	2	
R213,245	88-181-222-01		2.2k $\Omega$	1/4W	$\pm 5\%$	ELR	2	
R217,251,206, 222	88-181-332-01		3.3k $\Omega$	1/4W	$\pm 5\%$	ELR	4	
R241,151,152	88-181-392-01		3.9k $\Omega$	1/4W	$\pm 5\%$	ELR	3	
R115,162,163, 223,104	88-181-562-01		5.6k $\Omega$	1/4W	$\pm 5\%$	ELR	5	
R242,243,230	88-181-682-01		6.8k $\Omega$	1/4W	$\pm 5\%$	ELR	3	
R232	88-181-822-01		8.2k $\Omega$	1/4W	$\pm 5\%$	ELR	1	
R215,227,107, 228,210	88-181-103-01		10k $\Omega$	1/4W	$\pm 5\%$	ELR	5	
R157	88-181-123-01		12k $\Omega$	1/4W	$\pm 5\%$	ELR	1	
R149,224	88-181-153-01		15k $\Omega$	1/4W	$\pm 5\%$	ELR	2	
R116,216,166, 167	88-181-223-01		22k $\Omega$	1/4W	$\pm 5\%$	ELR	4	
R209,291,147, 204	88-181-273-01		27k $\Omega$	1/4W	$\pm 5\%$	ELR	4	
R142,205,229	88-181-333-01		33k $\Omega$	1/4W	$\pm 5\%$	ELR	3	
R156	88-181-393-01		39k $\Omega$	1/4W	$\pm 5\%$	ELR	1	
R211,244	88-181-563-01		56k $\Omega$	1/4W	$\pm 5\%$	ELR	2	
R233,101	88-181-104-01		100k $\Omega$	1/4W	$\pm 5\%$	ELR	2	
R220	88-181-154-01		150k $\Omega$	1/4W	$\pm 5\%$	ELR	1	
R249	88-181-224-01		220k $\Omega$	1/4W	$\pm 5\%$	ELR	1	
R160,161	88-181-274-01		270k $\Omega$	1/4W	$\pm 5\%$	ELR	2	
R158,159	88-181-334-01		330k $\Omega$	1/4W	$\pm 5\%$	ELR	2	
R237	88-131-100-01		10 $\Omega$	1/4W	$\pm 5\%$		1	
R144	88-131-330-01		33 $\Omega$	1/4W	$\pm 5\%$		1	
R103	88-131-470-01		47 $\Omega$	1/4W	$\pm 5\%$		1	
R118	88-131-560-01		56 $\Omega$	1/4W	$\pm 5\%$		1	
R119,114,125,	88-131-101-01		100 $\Omega$	1/4W	$\pm 5\%$		3	
R240,135	88-131-221-01		220 $\Omega$	1/4W	$\pm 5\%$		2	
R131	88-131-331-01		330 $\Omega$	1/4W	$\pm 5\%$		1	
R123	88-131-471-01		470 $\Omega$	1/4W	$\pm 5\%$		1	
R122,129,154, 134	88-131-102-01		1k $\Omega$	1/4W	$\pm 5\%$		4	
R136,137	88-131-122-01		1.2k $\Omega$	1/4W	$\pm 5\%$		2	
R128,121	88-131-152-01		1.5k $\Omega$	1/4W	$\pm 5\%$		2	
R132,145,130	88-131-222-01		2.2k $\Omega$	1/4W	$\pm 5\%$		2	
R234	88-131-392-01		3.9k $\Omega$	1/4W	$\pm 5\%$		1	
R138,139,239	88-131-472-01		4.7k $\Omega$	1/4W	$\pm 5\%$		3	
R102	88-131-682-01		6.8k $\Omega$	1/4W	$\pm 5\%$		1	
R111,133	88-131-103-01		10k $\Omega$	1/4W	$\pm 5\%$		2	
R155	88-131-153-01		15k $\Omega$	1/4W	$\pm 5\%$		1	
R105	88-131-223-01		22k $\Omega$	1/4W	$\pm 5\%$		1	
R112	88-131-273-01		27k $\Omega$	1/4W	$\pm 5\%$		1	
R117	88-131-333-01		33k $\Omega$	1/4W	$\pm 5\%$		1	
R120,127	88-131-393-01		39k $\Omega$	1/4W	$\pm 5\%$		2	
R148	88-131-274-01		270k $\Omega$	1/4W	$\pm 5\%$		1	
R238	88-152-151-01		150 $\Omega$	1W	$\pm 10\%$		1	
R146	88-152-271-01		270 $\Omega$	1W	$\pm 10\%$		1	
			<Capacitors>					
C135	88-337-590-01		0.47 $\mu$ F	50V		Electrolytic	1	
C102,153,238, 150,151,152, 227,252,253, 141	88-337-100-01		1 $\mu$ F	50V		Electrolytic	10	
C119	88-336-200-01		2.2 $\mu$ F	25V		Electrolytic	1	
C231	88-336-300-01		3.3 $\mu$ F	25V		Electrolytic	1	
C245	88-336-120-01		100 $\mu$ F	25V		Electrolytic	1	
C129	88-335-110-01		10 $\mu$ F	16V		Electrolytic	1	
C155,246	88-335-510-01		47 $\mu$ F	16V		Electrolytic	2	
C250	88-333-210-01		22 $\mu$ F	10V		Electrolytic	1	

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
C138	88-333-310-01		33 $\mu$ F 10V Electrolytic		1
C146	87-015-104-01		0.22 $\mu$ F Aluminium solid		1
C147	87-015-106-01		0.47 $\mu$ F Aluminium solid		1
C213	88-617-460-01		180pF Styrol		1
C212	88-617-530-01		360pF Styrol		1
C148	88-617-550-01		470pF Styrol		1
C211,210	88-617-710-01		3900pF Styrol		2
C142,143	88-717-810-01		0.01 $\mu$ F Mylar		2
C144,145,159	88-717-850-01		0.047 $\mu$ F Mylar		3
C114	88-213-020-01		2pF Ceramic		1
C117,106	88-213-030-01		3pF Ceramic		2
C112	88-212-100-01		10pF Ceramic		1
C101	88-212-120-01		12pF Ceramic		1
C111,115,104, C214,215	88-212-150-01		15pF Ceramic		5
C 204	88-212-200-01		20pF Ceramic		1
C125,121	88-212-220-01		24pF Ceramic		2
C206	88-212-240-01		30pF Ceramic		1
C224	88-212-300-01		51pF Ceramic		1
C107	88-212-350-01		82pF Ceramic		1
C216	88-212-360-01		91pF Ceramic		1
C249	88-212-410-01		100pF Ceramic		1
C130,131	88-212-420-01		120pF Ceramic		2
C136	88-212-480-01		220pF Ceramic		1
C132	88-212-510-01		300pF Ceramic		1
C242	88-212-520-01		330pF Ceramic		1
C126	88-214-610-01		0.001 $\mu$ F Ceramic		1
C217,127	88-214-652-01		0.002 $\mu$ F Ceramic		2
C113,229,105, 225,108,116, 156,237	88-214-720-01		0.0047 $\mu$ F Ceramic		8
C219,221	88-214-830-01		0.022 $\mu$ F Ceramic		2
C233,123	88-215-720-01		0.0047 $\mu$ F Ceramic		2
C226,154,232, 234,236,243, 207,208,209, 218,220,248, 124,139,128, 244,240,109, 118,223,228	88-214-810-01		0.01 $\mu$ F Ceramic		21
C110,120,133 134,103,137, 158,247,122, 251	88-215-810-01		0.01 $\mu$ F Ceramic		10
C239,230,235	88-215-830-01		0.022 $\mu$ F Ceramic		2
C203	87-012-096-01		100pF 250V Ceramic		1
<b>&lt;&lt;MAIN AMP/POWER CIRCUIT BOARD SECTION&gt;&gt;</b>					
PCB-B	82-471-674-11		MAIN AMP/POWER circuit board	*	
<b>&lt;MAIN AMP SECTION&gt;</b>					
TR601,602	89-108-416-01		Transistor, 2SA-841 (BL)		2
TR603,604	89-311-664-01		Transistor, 2SC-1166(Y)		2
TR605,606	89-309-456-01		Transistor, 2SC-945L (P)		2
TR607,608	89-205-483-01		Transistor, 2SB-548 (Q)		2
TR609,610	89-404-143-01		Transistor, 2SD-414 (Q)		2
SFR601,602	87-021-437-01		Semi-fixed resistor, 2.2k $\Omega$ (B)		2
	87-032-654-01		4P Pin		1
	87-032-518-01		3P mini plug		1
			<b>&lt;Resistor&gt;</b>		
R631,632	88-130-220-41		22 $\Omega$ 1/4W $\pm$ 5%		2
R607,608	88-130-680-41		68 $\Omega$ 1/4W $\pm$ 5%		2
R623,624,625 626	88-130-221-41		220 $\Omega$ 1/4W $\pm$ 5%		4

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
R605,606	88-130-152-41		1.5k $\Omega$ 1/4W $\pm$ 5%		2
R611,612	88-130-222-41		2.2k $\Omega$ 1/4W $\pm$ 5%		2
R613,614	88-130-392-41		3.9k $\Omega$ 1/4W $\pm$ 5%		2
R615,616	88-130-472-41		4.7k $\Omega$ 1/4W $\pm$ 5%		2
R619,620	88-130-682-41		6.8k $\Omega$ 1/4W $\pm$ 5%		2
R621,622	88-130-223-41		22k $\Omega$ 1/4W $\pm$ 5%		2
R609,610	88-130-473-41		47k $\Omega$ 1/4W $\pm$ 5%		2
R601,602	88-130-563-41		56k $\Omega$ 1/4W $\pm$ 5%		2
R603,604	88-130-823-41		82k $\Omega$ 1/4W $\pm$ 5%		2
R617,618	88-188-182-41		18 k $\Omega$ 1/4W $\pm$ 5% ELR		2
R627,628,629, 630	87-029-012-01		0.47 $\Omega$ 2W Metal film		4
			<Capacitors>		
C601,602	88-335-110-01		10 $\mu$ F 16V Electrolytic		2
C615,616	88-336-310-01		33 $\mu$ F 25V Electrolytic		2
C613,614	88-336-120-01		100 $\mu$ F 25V Electrolytic		2
C607,608	88-336-220-01		220 $\mu$ F 25V Electrolytic		2
C621,622	88-344-130-01		1000 $\mu$ F 35V Electrolytic		2
C609,610	88-337-120-01		100 $\mu$ F 50V Electrolytic		2
C603,604	88-212-410-01		100pF Ceramic		2
C605,606,611, 612	88-212-240-01		30pF Ceramic		4
C617,618,619, 620	88-212-520-01		330pF Ceramic		4
C623,624	87-012-099-01		0.022 $\mu$ F Ceramic		2
			<POWER SECTION>		
TR701	89-402-344-01		Transistor, 2SD-234		1
D701	87-027-155-01		Stug diode, KBL-02 (200V 4A)		1
D702	87-027-147-01		Diode, HZ-22H		1
D703	87-027-083-01		Diode, IS-1885		1
F2	87-035-068-01		Fuse, 1.6 A "T"		1
	87-057-823-01		Fuse label, 1.6 A "T"		1
F3	87-035-119-01		Fuse, 3.15 A "T"		1
	87-057-821-11		Fuse, label, 3.15 A "T"		1
	87-032-527-01		Fuse clamp (F2, 3)		4
			<Resistors>		
R701	87-029-009-01		22 $\Omega$ 1/2W Fuse resistor		1
R703	87-029-018-01		47 $\Omega$ Metal film		1
R702	88-131-392-01		3.9k $\Omega$ 1/4W $\pm$ 5%		1
			<Capacitors>		
C708	88-335-139-01		1000 $\mu$ F 16V Electrolytic		1
C706	88-336-220-01		220 $\mu$ F 25V Electrolytic		1
C705	87-015-293-01		3300 $\mu$ F 63V Electrolytic		1
C707	87-012-097-01		0.047 $\mu$ F 50V Ceramic		1
C701,702,703, 704	87-012-098-01		0.047 $\mu$ F 100V Ceramic		4
			<<RELAY-1 CIRCUIT BOARD>>		
PCB-C	82-467-704-01		Relay-1 circuit board		1
	87-032-555-01		Pin 5P		1
			<<RELAY-2 CIRCUIT BOARD>>		
PCB-D	82-467-703-01		Relay-2 circuit board		1
	87-032-557-01		Pin 7P		1
			<<PRE AMP/SELECTOR SWITCH-1 CIRCUIT BOARD SECTION>>		
PCB-E	82-471-699-01		PRE AMP/SELECTOR SWITCH-1 circuit board	*	1
IC301,302, 303,304	87-027-137-01		IC, TA-7122AP		4
S1,2,3,4,5,6,7	82-471-668-01		Push switch (SELECTOR)	*	1
	87-032-653-01		Pin 3P		4
	87-032-654-01		Pin 4P		1

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
	87-032-660-01		Pin 10P		1
			<Resistors>		
R345,346	88-131-271-01		270Ω 1/4W ±5%		2
R360	88-131-561-01		560Ω 1/4W ±5%		1
R313,314,333, 334,488	88-131-102-01		1kΩ 1/4W ±5%		5
R319,320,347, 348	88-131-472-01		4.7kΩ 1/4W ±5%		4
R323,324	88-131-153-01		15kΩ 1/4W ±5%		2
R351,352	88-131-473-01		47kΩ 1/4W ±5%		2
R315,316	88-131-104-01		100kΩ 1/4W ±5%		4
R305,306,339, 340	88-131-824-01		820kΩ 1/4W ±5%		4
R363,364	88-181-101-01		100Ω 1/4W ±5% ELR		2
R359	88-181-561-01		560Ω 1/4W ±5% ELR		1
R341,342	88-181-152-01		1.5kΩ 1/4W ±5% ELR		2
R307,308	88-181-272-01		2.7kΩ 1/4W ±5% ELR		2
R301,302,311, 312,343,344	88-181-562-01		5.6kΩ 1/4W ±5% ELR		6
R349,350	88-181-682-01		6.8kΩ 1/4W ±5% ELR		2
R357,358	88-181-123-01		12kΩ 1/4W ±5% ELR		2
R353,354	88-181-333-01		33kΩ 1/4W ±5% ELR		2
R337,338	88-181-473-01		47kΩ 1/4W ±5% ELR		2
R309,310	88-181-683-01		68kΩ 1/4W ±5% ELR		2
R335,336	88-181-823-01		82kΩ 1/4W ±5% ELR		2
R303,304,317, 318	88-181-104-01		100kΩ 1/4W ±5% ELR		4
R355,356	88-181-124-01		120kΩ 1/4W ±5% ELR		2
R361,362	88-181-105-01		1MΩ 1/4W ±5% ELR		2
			<Capacitors>		
C313,314	88-336-120-01		100μF 25V Electrolytic		2
C325,326	88-336-220-01		220μF 25V Electrolytic		2
C301,302	88-335-500-01		4.7μF 16V Electrolytic		2
C311,312,317, 318,327,328	88-335-110-01		10μF 16V Electrolytic		6
C307,308,323, 324	88-332-120-01		100μF 6.3V Electrolytic		4
C333,334	88-707-710-01		0.0039μF Mylar		2
C331,332	88-707-890-01		0.027μF Mylar		2
C315,316	88-707-910-01		0.1μF Mylar		2
C305,306,309, 310,321,322, 329,330	88-212-300-01		51pF Ceramic		8
C319,320	88-212-410-01		100pF Ceramic		2
C303,304	88-212-520-01		330pF Ceramic		2
<b>&lt;&lt;SELECTOR SWITCH-2 CIRCUIT BOARD SECTION&gt;&gt;</b>					
PCB-F	82-471-671-01		SELECTOR SWITCH-2 circuit board	*	1
	87-033-092-01		PCB tab (A)		2
			<Resistors>		
R321,322	88-131-473-01		47kΩ 1/4W ±5%		2
<b>&lt;&lt;REC/PB CIRCUIT BOARD SECTION&gt;&gt;</b>					
PCB-G	82-470-631-11		REC/PB circuit board		1
TR401,402, 403,404	89-313-355-01		Transistor, 2SC-1335(E)		4
TR409,411,412	89-313-647-01		Transistor, 2SC-1364 (7)		3
TR413	89-303-724-01		Transistor, 2SC-372 (Y)		1
TR414,415	89-309-456-01		Transistor, 2SC-945L (P)		2
L403,404	87-007-052-01		Trape coil		2

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
L405	82-471-621-01		Bias OSC coil	*	1
L406	82-401-661-01		Choke coil (600 $\mu$ H)		1
S8	82-470-615-01		Slide switch (REC/PB)		1
S9	87-031-348-01		Slide switch (TAPE SELECTOR)		1
SFR403,404, 405,406,407, 408	87-021-363-01		Semi-fixed resistor, 47k $\Omega$ -B		6
SFR401,402, 413,414	87-021-367-01		Semi-fixed resistor, 100k $\Omega$ -B		4
	87-032-653-01		Pin, 3P		4
	87-032-654-01		Pin, 4P		3
	87-032-655-01		Pin, 5P		3
	87-032-656-01		Pin, 6P		1
	87-032-657-01		Pin, 7P		1
			<Resistors>		
R401,402	88-131-100-01		10 $\Omega$ 1/4W $\pm$ 5%		2
R496	88-131-101-01		100 $\Omega$ 1/4W $\pm$ 5%		1
R499	88-131-471-01		470 $\Omega$ 1/4W $\pm$ 5%		1
R477,478	88-131-103-01		10k $\Omega$ 1/4W $\pm$ 5%		2
R492	88-181-330-01		33 $\Omega$ 1/4W $\pm$ 5% ELR		1
R407,408	88-181-820-01		82 $\Omega$ 1/4W $\pm$ 5% ELR		2
R493,497	88-181-101-01		100 $\Omega$ 1/4W $\pm$ 5% ELR		2
R415,416	88-181-151-01		150 $\Omega$ 1/4W $\pm$ 5% ELR		2
R498	88-181-471-01		470 $\Omega$ 1/4W $\pm$ 5% ELR		1
R433,434,479	88-181-102-01		1k $\Omega$ 1/4W $\pm$ 5% ELR		3
R417,418	88-181-152-01		1.5k $\Omega$ 1/4W $\pm$ 5% ELR		2
R429,430	88-181-182-01		1.8k $\Omega$ 1/4W $\pm$ 5% ELR		2
R431,432	88-181-222-01		2.2k $\Omega$ 1/4W $\pm$ 5% ELR		2
R489	88-181-272-01		2.7k $\Omega$ 1/4W $\pm$ 5% ELR		1
R495	88-181-562-01		5.6k $\Omega$ 1/4W $\pm$ 5% ELR		1
R427,428	88-181-682-01		6.8k $\Omega$ 1/4W $\pm$ 5% ELR		2
R421,422	88-181-203-01		20k $\Omega$ 1/4W $\pm$ 5% ELR		2
R413,414	88-181-223-01		22k $\Omega$ 1/4W $\pm$ 5% ELR		2
R425,426	88-181-333-01		33k $\Omega$ 1/4W $\pm$ 5% ELR		2
R490,491	88-181-473-01		47k $\Omega$ 1/4W $\pm$ 5% ELR		2
R411,412	88-181-124-01		120k $\Omega$ 1/4W $\pm$ 5% ELR		1
R494	88-181-184-01		180k $\Omega$ 1/4W $\pm$ 5% ELR		1
R423,424	88-181-564-01		560k $\Omega$ 1/4W $\pm$ 5% ELR		2
R403,404,405 406,409,410	88-183-224-01		220k $\Omega$ 1/4W $\pm$ 5% LN		6
R487	88-140-121-01		120 $\Omega$ 1/4W $\pm$ 5%		1
R483	88-140-271-01		270 $\Omega$ 1/2W $\pm$ 5%		1
R482	87-029-019-01		2.2 $\Omega$ 1/2W Fuse resistor		1
R481	87-029-015-01		10 $\Omega$ 1/2W Fuse resistor		1
			<Capacitors>		
C417,418	87-015-284-01		0.47 $\mu$ F 50V Electrolytic		2
C405,406	87-015-291-01		10 $\mu$ F 50V Electrolytic		2
C401,402,467	88-336-310-01		33 $\mu$ F 25V Electrolytic		3
C419,420	88-336-510-01		47 $\mu$ F 25V Electrolytic		2
C455	88-336-120-01		100 $\mu$ F 25V Electrolytic		1
C415,416,423 424,425,426	88-335-110-01		10 $\mu$ F 16V Electrolytic		6
C471	88-333-210-01		22 $\mu$ F 10V Electrolytic		1
C413,414	88-332-120-01		100 $\mu$ F 6.3V Electrolytic		2
C460	88-703-700-01		0.0033 $\mu$ F Mylar		1
C407,408	88-707-730-01		0.0056 $\mu$ F Mylar		2
C462,463	88-707-740-01		0.0068 $\mu$ F Mylar		2
C459,461	88-718-810-01		0.01 $\mu$ F 100V Mylar		2
C464,470	88-707-850-01		0.047 $\mu$ F Mylar		2
C421,422	88-507-520-01		330pF Styrol		2
C451,452	88-507-570-01		680pF Styrol		2
C411,412	88-212-420-01		120pF Ceramic		2

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
C457	88-238-480-01		220pF Ceramic		1
C409,410	88-212-520-01		330pF Ceramic		2
C458	88-238-540-01		390pF Ceramic		1
C453,454	88-238-550-01		470pF Ceramic		2
<b>◀METER AMP CIRCUIT BOARD SECTION▶</b>					
PCB-H	82-471-643-11		METER AMP circuit board	*	1
TR407,408	89-303-730-01		Transistor, 2SC-373		2
D401,402,403 404	88-051-060-01		Diode, IN-60		4
SFR409,410	87-021-367-01		Semi-fixed resistor, 100kΩ-B		2
	87-032-653-01		Pin 3P		1
	87-032-634-01		Pin 4P		2
			<Resistors>		
R453,454	88-181-391-01		390Ω 1/4W ±5% ELR		2
R449,450	88-181-332-01		3.3kΩ 1/4W ±5% ELR		2
R447,448	88-181-105-01		1MΩ 1/4W ±5% ELR		2
			<Capacitors>		
C429,430,433 434,435,436	88-337-100-01		1μF 50V Electrolytic		6
C431,432	88-212-410-01		100pF Ceramic		2
<b>◀REC AMP CIRCUIT BOARD SECTION▶</b>					
PCB-I	82-471-645-11		REC AMP circuit board	*	1
TR405,406	89-313-354-01		Transistor, 2SC-1335 (D)		2
L401,402	82-371-648-01		Micro inductor (6.8 mH)		2
SFR411,412	87-021-367-01		Semi-fixed resistor, 100kΩ-B		2
	87-032-637-01		Pin 7P		2
			<Resistors>		
R473,474	88-131-272-01		2.7kΩ 1/4W ±5%		2
R475,476	88-131-822-01		8.2kΩ 1/4W ±5%		2
R471,472	88-131-820-01		82Ω 1/4W ±5% ELR		2
R467,468	88-181-182-01		1.8kΩ 1/4W ±5% ELR		2
R459,460	88-181-332-01		3.3kΩ 1/4W ±5% ELR		2
R469,470	88-181-103-01		10kΩ 1/4W ±5% ELR		2
R461,462	88-181-333-01		33kΩ 1/4W ±5% ELR		2
R463,464	88-181-823-01		82kΩ 1/4W ±5% ELR		2
R465,466	88-181-564-01		560kΩ 1/4W ±5% ELR		2
			<Capacitors>		
C439,440	88-337-100-01		1μF 50V Electrolytic		2
C441,442	88-335-110-01		10μF 16V Electrolytic		2
C445,446	88-707-640-01		0.0018μF Mylar		2
C449,450	88-707-820-01		0.015μF Mylar		2
C443,444	88-707-880-01		0.018μF Mylar		2
C447,448	88-707-890-01		0.027μF Mylar		2
C437,448	88-707-860-01		0.068μF Mylar		2
<b>◀DOLBY-NR CIRCUIT BOARD SECTION▶</b>					
PCB-J	82-470-635-01		DOLBY-NR circuit board		1
IC801,802	87-027-151-01		IC NE-545(B)		2
D801,802	88-051-060-01		Diode, IN-60		2
L801,802	82-372-625-11		Coil, 36mH		2
L803,804	82-371-622-01		Trape coil, 23mH		2
	87-032-656-01		Pin 6P		1
			<Resistors>		
R815,816	88-181-121-01		120Ω 1/4W ±5% ELR		2
R801,802,803 804	88-181-102-01		1kΩ 1/4W ±5% ELR		4
R806	88-181-152-01		1.5kΩ 1/4W ±5% ELR		1
R811,812	88-181-473-01		47kΩ 1/4W ±5% ELR		2
R813,814	88-181-104-01		100kΩ 1/4W ±5% ELR		2
R817,818	88-181-154-01		150kΩ 1/4W ±5% ELR		2

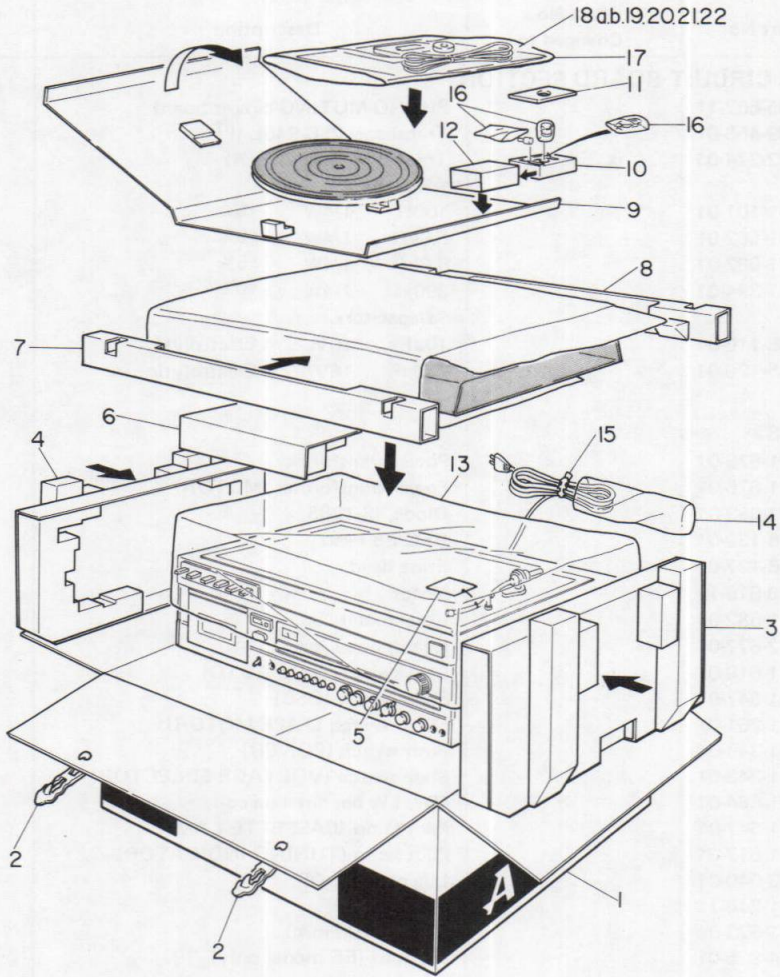


Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
R819,820	88-181-274-01		270k $\Omega$ 1/4W $\pm$ 5% ELR		2
R821,822	88-181-684-01		680k $\Omega$ 1/4W $\pm$ 5% ELR		2
R809,810	88-131-181-01		180 $\Omega$ 1/4W $\pm$ 5%		2
R805	88-152-121-01		120 $\Omega$ 1W $\pm$ 5%		1
R807,808	82-371-645-01		3.3k $\Omega$ 1/4W $\pm$ 1% ELR		2
			<Capacitors>		
C829,830	88-337-394-01		0.33 $\mu$ F 50V Electrolytic		4
C811	88-336-510-01		47 $\mu$ F 25V Electrolytic		1
C815,816,817 818	88-335-110-01		10 $\mu$ F 16V Electrolytic		4
C809,810	88-335-120-01		100 $\mu$ F 16V Electrolytic		2
C825,826	88-333-210-01		22 $\mu$ F 10V Electrolytic		2
C807,808	88-707-660-01		0.0022 $\mu$ F Mylar		2
C803,804	88-707-710-01		0.0039 $\mu$ F Mylar		2
C823,824	88-707-850-01		0.047 $\mu$ F Mylar		2
C827,828	88-707-910-01		0.1 $\mu$ F Mylar		2
C805,806	88-607-690-01		3000pF Styrol		2
C819,820	82-371-643-01		4700pF PP		2
C813,814	82-371-642-01		5600pF PP		2
C821,822	82-371-641-01		0.027 $\mu$ F PP		2
<b>&lt;&lt;DOLBY-NR SWITCH CIRCUIT BOARD SECTION&gt;&gt;</b>					
PCB-K	82-470-632-11		DOLBY-NR SWITCH circuit board		1
S13	87-031-299-01		Lever switch (DOLBY-NR)		1
<b>&lt;&lt;DOLBY-NR LED CIRCUIT BOARD SECTION&gt;&gt;</b>					
PCB-L	82-470-619-01		DOLBY-NR LED circuit board		1
D803	87-026-103-01		Light emitting diode (DOLBY-NR)		1
<b>&lt;&lt;CONTROL CIRCUIT BOARD SECTION&gt;&gt;</b>					
PCB-M	82-471-673-11		CONTROL circuit board		1
TR501,502	89-307-326-01		Transistor, 2SC-732 (BL)		2
VR501,502	82-471-612-01		Volume, 250k $\Omega$ Cx2 (MIC,MIX,VOLUME)		1
VR503,504,505	82-471-672-01		Volume, 100k $\Omega$ Ax2, 250k $\Omega$ W (VOLUME, BALANCE)		1
VR507,508, 509,510	82-471-613-01		Volume, 50k $\Omega$ Ax2 (TREBLE, BASS)		2
VR511,512	82-471-614-11		Volume, 100k $\Omega$ Ax2 (REC LEVEL)		1
L501,502	87-005-094-01		Micro Inductor 10mH		2
	87-032-656-01		Pin 6P		1
			<Resistors>		
R503,504,515, 516,517,518, 523,524,525, 526	88-131-102-01		1k $\Omega$ 1/4W $\pm$ 5%		10
R512	88-131-682-01		6.8k $\Omega$ 1/4W $\pm$ 5%		1
R505,506,519, 520	88-131-103-01		10k $\Omega$ 1/4W $\pm$ 5%		4
R501,502	88-131-153-01		15k $\Omega$ 1/4W $\pm$ 5%		2
R527,528	88-131-124-01		120k $\Omega$ 1/4W $\pm$ 5%		2
R507,508	88-181-271-01		270 $\Omega$ 1/4W $\pm$ 5% ELR		2
R521,522	88-181-332-01		3.3k $\Omega$ 1/4W $\pm$ 5% ELR		2
R511	88-181-682-01		6.8k $\Omega$ 1/4W $\pm$ 5% ELR		1
R509,510	88-176-225-01		2.2M $\Omega$ 1/4W $\pm$ 5%		2
			<Capacitors>		
C509,510	88-337-100-01		1 $\mu$ F 50V Electrolytic		2
C501,502	88-336-200-01		2.2 $\mu$ F 25V Electrolytic		2
C507,508	88-336-310-01		33 $\mu$ F 25V Electrolytic		2
C511,512	88-707-660-01		0.0022 $\mu$ F Mylar		2
C515,516	88-707-880-01		0.018 $\mu$ F Mylar		2
C513,514	88-707-890-01		0.027 $\mu$ F Mylar		2
C517,518	88-707-930-01		0.22 $\mu$ F Mylar		2

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
C519,520	88-212-180-01		18pF Ceramic		2
C505,506	88-212-410-01		100pF Ceramic		2
C521,522	88-212-420-01		120pF Ceramic		2
C523,524	88-212-510-01		300pF Ceramic		2
<b>◀MIC JACK CIRCUIT BOARD SECTION▶</b>					
PCB-N	82-471-686-01		Mic jack circuit board	*	1
J1,2	87-032-677-01		Jack 6.3φ (MIC)		2
<b>◀METER LAMP CIRCUIT BOARD SECTION▶</b>					
PCB-O	82-471-606-01		Meter lamp circuit board	*	1
PL7,8	82-471-660-01		Pilot lamp (GRN)	*	2
	87-032-527-01		Pilot lamp clamp (L7, 8)		4
<b>◀REC LED CIRCUIT BOARD SECTION▶</b>					
PCB-P	82-471-608-01		REC LED circuit board	*	1
D407	87-026-082-01		Light emitting diode (REC)		1
<b>◀STEREO LED CIRCUIT BOARD SECTION▶</b>					
PCB-Q	82-470-608-01		STEREO LED Circuit board		1
D112	87-026-082-01		Light emitting diode (FM STEREO)		1
<b>◀DIAL LAMP CIRCUIT BOARD SECTION▶</b>					
PCB-R	82-471-605-21		DIAL LAMP circuit board	*	1
PL1,2,3,4,5,6	87-035-129-01		Pilot lamp		6
	87-032-527-01		Pilot lamp clamp (PL1~6)		12
<b>◀JACK CIRCUIT BOARD SECTION▶</b>					
PCB-S	82-471-684-11		JACK circuit board	*	1
TR901,902	89-307-326-01		Transistor, 2SC-732 (BL)		2
J4,5,6S15	82-471-677-01		Terminal plate Ass'y	*	1
<b>&lt;Resistor&gt;</b>					
R907,908,911 912	88-131-103-01		10kΩ 1/4W ±5%		4
R915,916	88-131-333-01		33kΩ 1/4W ±5%		2
R913,914	88-131-683-01		68kΩ 1/4W ±5%		2
R909,910	88-131-104-01		100kΩ 1/4W ±5%		2
R901,902	88-131-474-01		470kΩ 1/4W ±5%		2
R903,904	88-131-684-01		680kΩ 1/4W ±5%		2
R905,906	88-131-105-01		1MΩ 1/4W ±5%		2
<b>&lt;Capacitors&gt;</b>					
C901,902,903 904	88-337-100-01		1μF 50V Electrolytic		4
C201,202	87-012-096-01		100pF 250V Ceramic		2
<b>◀FUSE CIRCUIT BOARD SECTION▶</b>					
PCB-T	82-470-605-11		FUSE circuit board		1
FI	87-035-068-01		Fuse 1.6A "T"		1
	87-057-772-01		Fuse label, 1.6A "T"		1
F4,5	87-035-060-01		Fuse, 800mA "T"		2
	87-057-767-11		Fuse label, 800mA "T"		2
	87-032-527-01		Fuse clamp		6
<b>◀SPEAKER JACK CIRCUIT BOARD SECTION▶</b>					
PCB-U	82-471-689-01		SPEAKER JACK circuit board	*	1
J7,8	82-471-678-01		DIN speaker jack	*	1
C,B601,602	82-475-677-01		Circuit breaker		2
<b>◀TRANSISTOR CIRCUIT BOARD SECTION▶</b>					
PCB-V,W,X,Y	82-471-685-01		TRANSISTOR circuit board	*	4
TR613,614	89-403-713-01		Transistor, 2SD-371 (O)		2
TR611,612	89-205-313-01		Transistor, 2SB-531 (O)		2

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
<b>&lt;&lt;PHONO MUTING CIRCUIT BOARD SECTION&gt;&gt;</b>					
PCB-Z	84-185-602-11		PHONO MUTING circuit board		1
TR801	89-309-456-01		Transistor, 2SC-945L (P)		1
TR802,803	89-402-274-01		Transistor, 2SD-227 (R)		2
<b>&lt;Resistor&gt;</b>					
R810	88-131-101-01		100Ω 1/4W ±5%		1
R804	88-131-562-01		5.6kΩ 1/4W ±5%		1
R802	88-131-682-01		6.8kΩ 1/4W ±5%		1
R803	88-131-394-01		390kΩ 1/4W ±5%		1
<b>&lt;Capacitors&gt;</b>					
C802	88-335-110-01		10μF 16V Electrolytic		1
C801	88-335-120-01		100μF 16V Electrolytic		1
<b>&lt;&lt;MISCELLANEOUS&gt;&gt;</b>					
T701	82-471-675-01		Power transformer		1
T702	82-471-676-01		Power transformer (MOTOR)		1
D703	87-027-083-01		Diode, IS-1885		1
RPH	87-046-130-01		REC/PB head		1
EH	87-046-127-01		Erase head		1
MI	82-470-616-11		Motor		1
LM1,2	82-471-682-01		Level meter	*	2
J3	87-032-677-01		Headphone jack		1
S10	82-471-619-01		Leaf switch (CrO <sub>2</sub> AUTO)	*	1
S11	87-031-347-01		Slide switch (OSC)		1
S14	87-031-261-01		Micro switch (TAPE MOTOR)		1
S19	87-031-349-01		Push switch (POWER)		1
S20	87-031-343-01		Slide switch (VOLTAGE SELECTOR)		1
L202,203,204	82-471-664-01		MW, LW bar antenna coil	*	1
PL9	82-471-647-01		Pilot lamp (CASSETTE LAMP)	*	1
PL10	82-471-617-31		Pilot lamp (TUNING INDICATOR)	*	1
	87-033-040-01		Lug plate, IL-3P		1
	82-471-244-11		Heatsink	*	1
	82-471-623-01		Feeder, 200 m/m	*	1
	87-034-835-01		AC cord (EE model only)		1
	87-034-847-01		AC cord (UK model only)		1
	87-032-674-01		UL AC outlet		1
	82-471-688-01		Connector Ass'y 2P, 3P	*	1
	82-471-641-11		3P mini socket w/cord	*	1
	82-471-626-11		Connector Ass'y 3P	*	1
	82-471-627-01		Connector Ass'y 3P	*	1
	82-471-629-01		Connector Ass'y 3P	*	1
	82-471-638-01		Connector Ass'y 3P	*	1
	82-471-679-01		Connector Ass'y 3P	*	1
	82-471-639-01		Connector Ass'y 3P	*	1
	82-471-628-01		Connector Ass'y 3P	*	1
	82-471-653-01		Connector Ass'y 3P	*	1
	82-471-630-11		Connector Ass'y 4P	*	1
	82-471-687-01		Connector Ass'y 4P	*	1
	82-471-640-01		Connector Ass'y 4P	*	1
	82-471-631-01		Connector Ass'y 5P	*	1
	82-470-642-31		Connector Ass'y 6P		1
	82-470-643-21		Connector Ass'y 5P		1
	82-470-644-01		Connector Ass'y 6P		1
	82-471-665-01		Connector Ass'y 10P		1
<b>&lt;Resistors&gt;</b>					
R633,634	88-141-271-01		270Ω 1/2W ±5%		1
<b>&lt;Capacitors&gt;</b>					
C476	88-335-510-01		47μF 16V Electrolytic		1
C709	88-336-130-01		1000μF 25V Electrolytic		1
C475	88-214-720-01		0.0047μF Ceramic		1
C710	88-215-850-01		0.047μF 50V Ceramic		1
C711	82-457-701-01		0.01μF PME		1

ACCESSORIES/PACKAGE



ACCESSORIES/PACKAGE

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1	82-471-871-01		Printed indiv. packing	*	1
2	82-056-500-01		Curl stopper		2
3	82-471-864-01		Cushion R, Printed indiv.	*	1
4	82-471-863-01		Cushion L, Printed indiv.	*	1
5	87-056-014-01		Tag, Voltage selector-"UK" model only		1
6	82-471-874-01		Cushion E, Auxiliary	*	1
7	82-471-875-01		Cushion A, Auxiliary	*	1
8	82-471-873-01		Cushion B, Auxiliary	*	1
9	82-471-867-01		Cushion C, Auxiliary	*	1
10	82-471-868-01		Cushion D, Auxiliary	*	1
11	82-471-877-01		Cushion	*	1
12	82-471-870-01		Sleeve	*	1
13	82-471-861-01		Poly-vinyl sack (for case)	*	1
14	87-051-131-01		Poly-vinyl sack (for AC power cord)		1
15	87-058-009-01		Free-up belt		1
16	87-051-132-01		Poly-vinyl sack		3
17	87-051-171-01		Poly-vinyl sack (for instructions)		1
18 (a)	82-471-909-01		Instruction booklet-"EE" model only	*	1
18 (b)	82-471-910-01		Instruction booklet-"UK" model only	*	1
19	87-058-019-01		Head cleaning stick ass'y		1
20	87-043-025-01		FM antenna		1
21	80-291-652-01		Tape cassette, DMC-141		1
22	87-056-009-01		Distributors list		1



