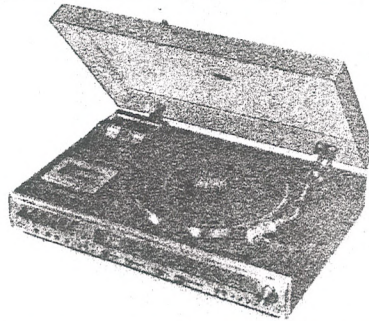


STEREO CASSETTE MUSIC SYSTEM

MODEL **AF-5050**EE,EE1,UK,UK1

AIWA® [SERVICE MANUAL]



Set using ISO screws

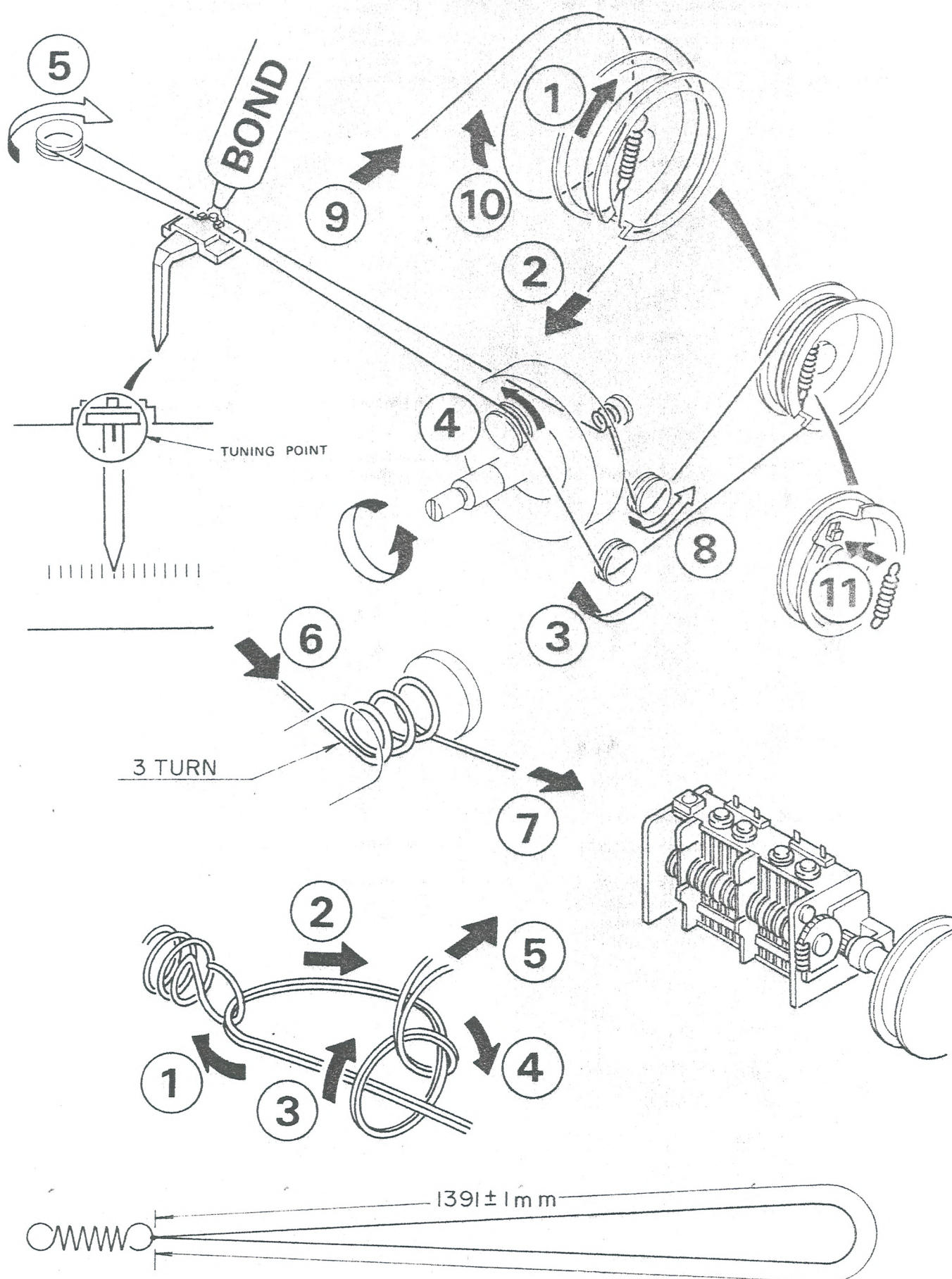
DATE OF ISSUE 25/10/1976

SPECIFICATIONS

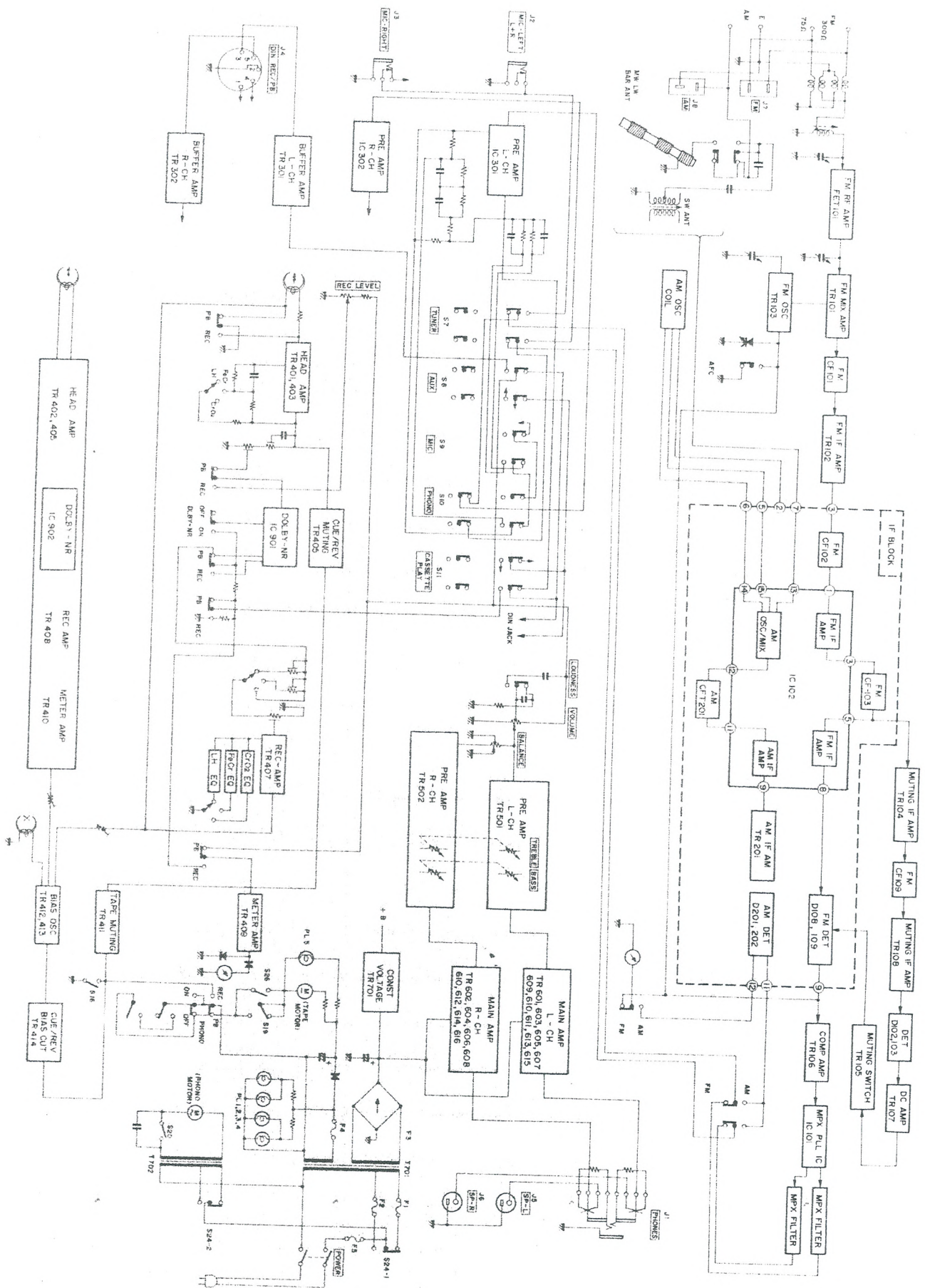
Model Type	Stereo cassette music system	Frequency Response	according to DIN 45 500 Blatt 8
Semiconductors	6 IC, 47 transistors, 22 diodes, 1 FET, 3 LED	Normal tape	30 Hz - 11,000 Hz
Power Supply	AF-5050EE,EE1..... AC 120 V/220 - 230 V, switchable 50/60 Hz AF-5050UK,UK1..... AC 120 V/240 V, switchable 50/60 Hz	Fe-Cr tape:	30 Hz - 15,000 Hz
Power Consumption	115 W (8 ohms) 140 W (4 ohms)	CrO₂ tape:	30 Hz - 15,000 Hz
Dimensions	160 (H) x 590 (W) x 430 (D) mm (w/ dust cover)	Normal tape:	30 Hz - 12,000 Hz
Weight	13.5 kg (w/ dust cover)	Fe-Cr tape:	30 Hz - 16,000 Hz
Accessories	Speaker (EE1, UK1 only) 2 Indoor FM antenna 1 Head cleaning stick 1 Tape Cassette 1 Motor pulley (for 60 Hz) 1	CrO₂ tape:	30 Hz - 16,000 Hz
« Tuner Section »		SN Ratio	according to DIN 45 500 Blatt 8 56 dB 58 dB (DOLBY NR ON CrO ₂ tape)
Frequency Range	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)	Bias Frequency	61 kHz
Effective Sensitivity	FM 2.5 µV (IHF) MW 300 µV/m (IHF) SW 40 µV (IHF) LW 550 µV (IHF)	Erase Method	AC erase
FM Frequency Response	20 Hz - 15,000 Hz	Motor	DC servo motor
FM SN Ratio	62 dB	« Audio Section »	
FM Distortion	0.6%	Circuitry	Pure complementary SEPP OTL
Muting Level	18 dB	Continuous Power	Music power: 10 W + 10 W (8 ohms) 15 W + 15 W (4 ohms)
Antennas	FM 300 ohms (balanced), 75 ohms (unbalanced) AM built-in antenna, terminal for external antenna	(1 kHz/distortion 1%)	12 W + 12 W (8 ohms) 17 W + 17 W (4 ohms)
« FM Multiplex Section »		Music Power	20 W + 20 W (8 ohms) 25 W + 25 W (4 ohms)
Separation	More than 38 dB (1 kHz)	Power Bandwidth	20 Hz - 20 kHz (0.3% distortion)
Distortion	1.0%	Loudness Response	(with volume at -40 dB) + 6 dB (100 Hz) + 4 dB (10 kHz)
« Turntable Section »		Gain and Input Impedance	MIC 1 mV (200 ohms - 10 k ohms)
Model Type	Belt driven automatic turntable	Output Level and Impedance	DIN IN (TAPE PLAY): ≤ 500 mV (≤ 470 k-ohms)
Motor	4-pole synchronous motor	DIN OUT (TAPE REC):	1 mV/k-ohm
Speeds	33-1/3 and 45 rpm	SPEAKERS:	4 - 8 ohms
S N Ratio	45 dB	PHONES:	4 - 8 ohms
Wow and Flutter	0.1% (WRMS)	BASS:	100 Hz ± 10 dB
Cartridge Type	Moving magnet (MM)	TREBLE:	10 kHz ± 10 dB
Separation	18 dB (33-1/3 rpm 1 kHz)		
Tracking Force	2 - 2.5 grams		
« Cassette Tape Deck Section »			
Track Format	4 tracks, 2 channels		
Tape Speed	4.8 cm/sec		
Recording Time	60 minutes (C 60)		
Wow and Flutter	according to DIN 45 500 Blatt 8 0.2% 0.1% (WRMS)		

- Specifications and design are subject to change with out notice due to product improvements.
- Dolby Noise Reduction Circuit under license from Dolby Laboratories Incorporated.
- The word "Dolby" and "Double-D" symbol are trademarks of Dolby Laboratories Incorporated.

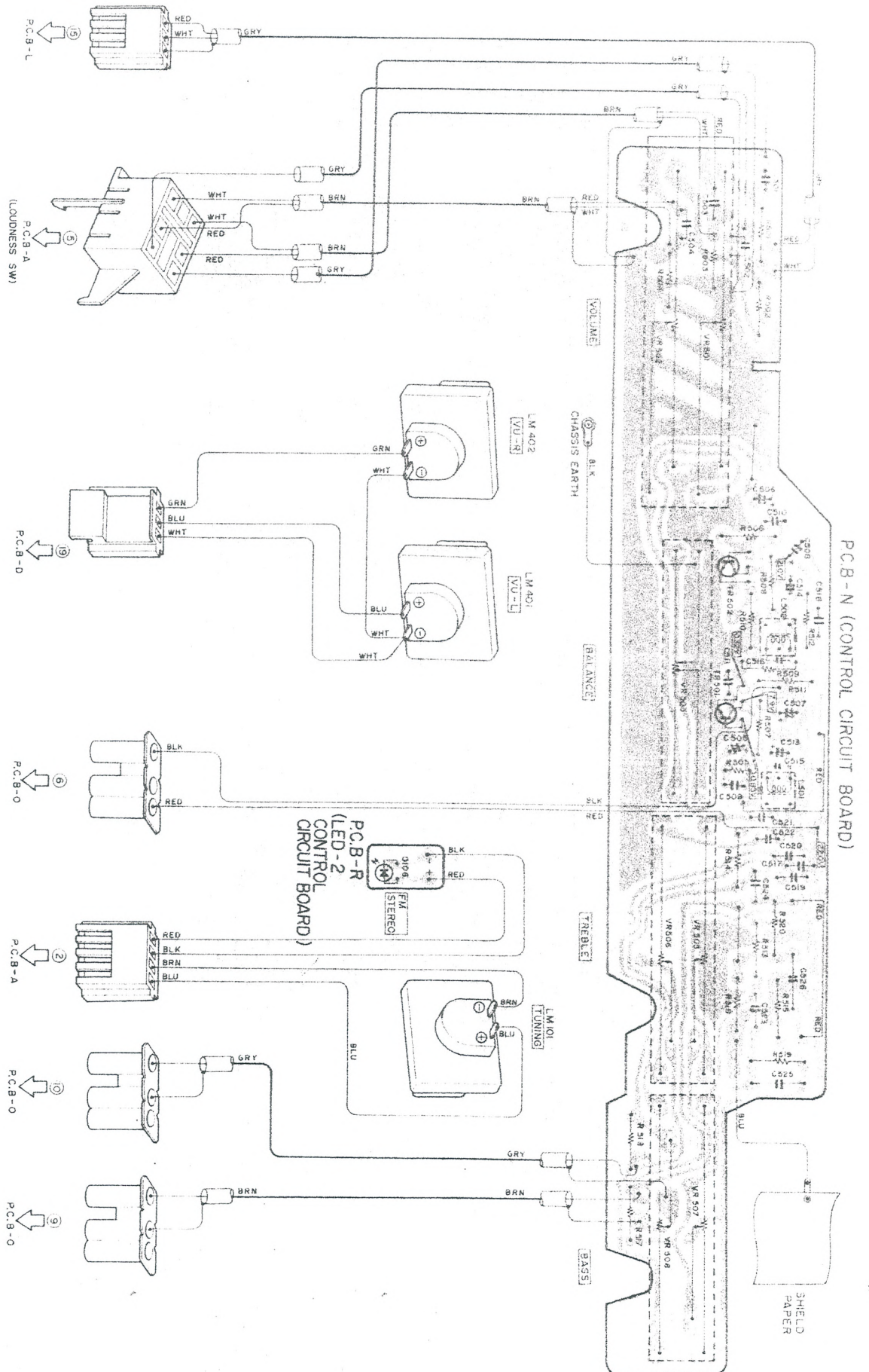
DIAL CORD STRINGING



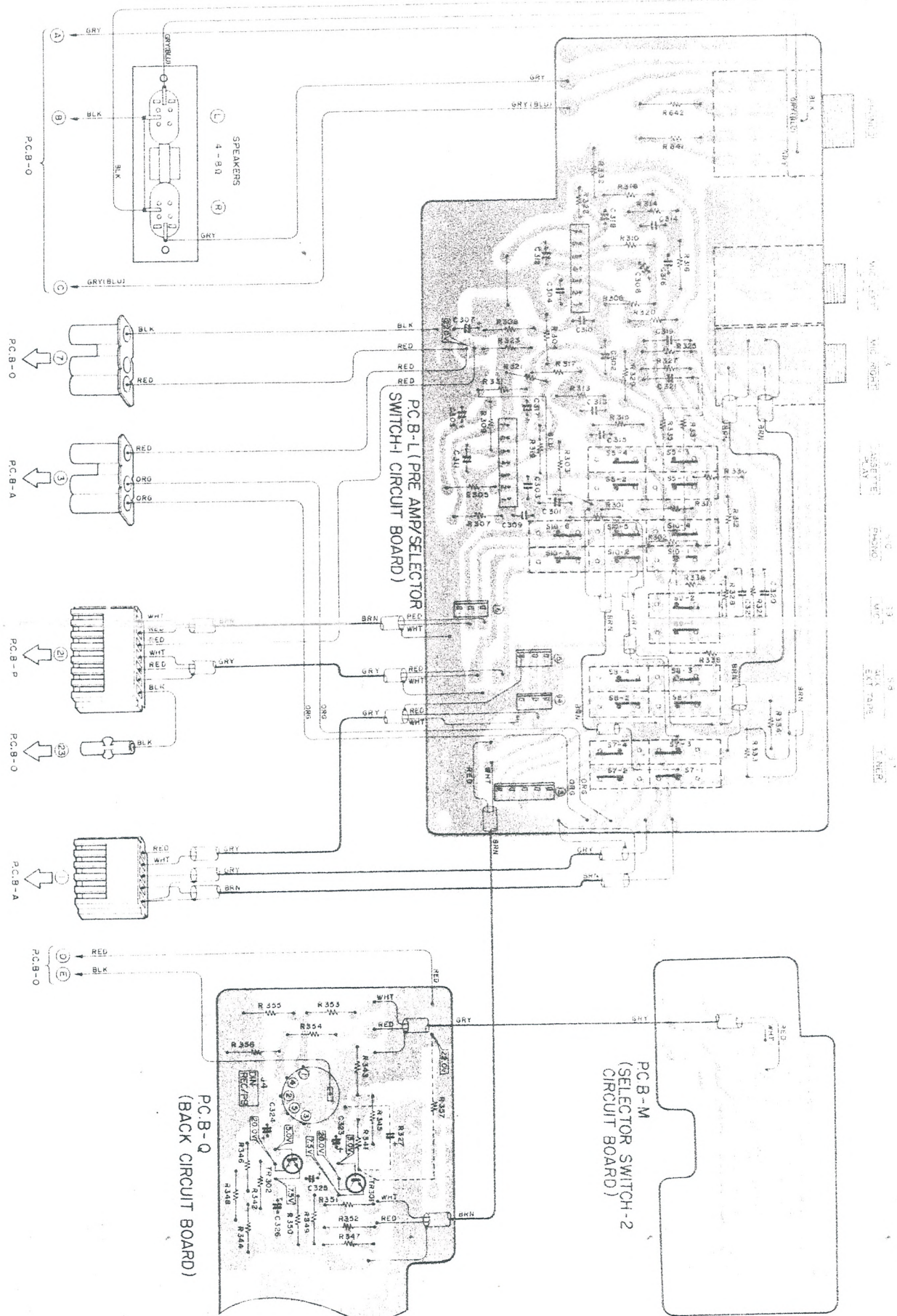
BLOCK DIAGRAM



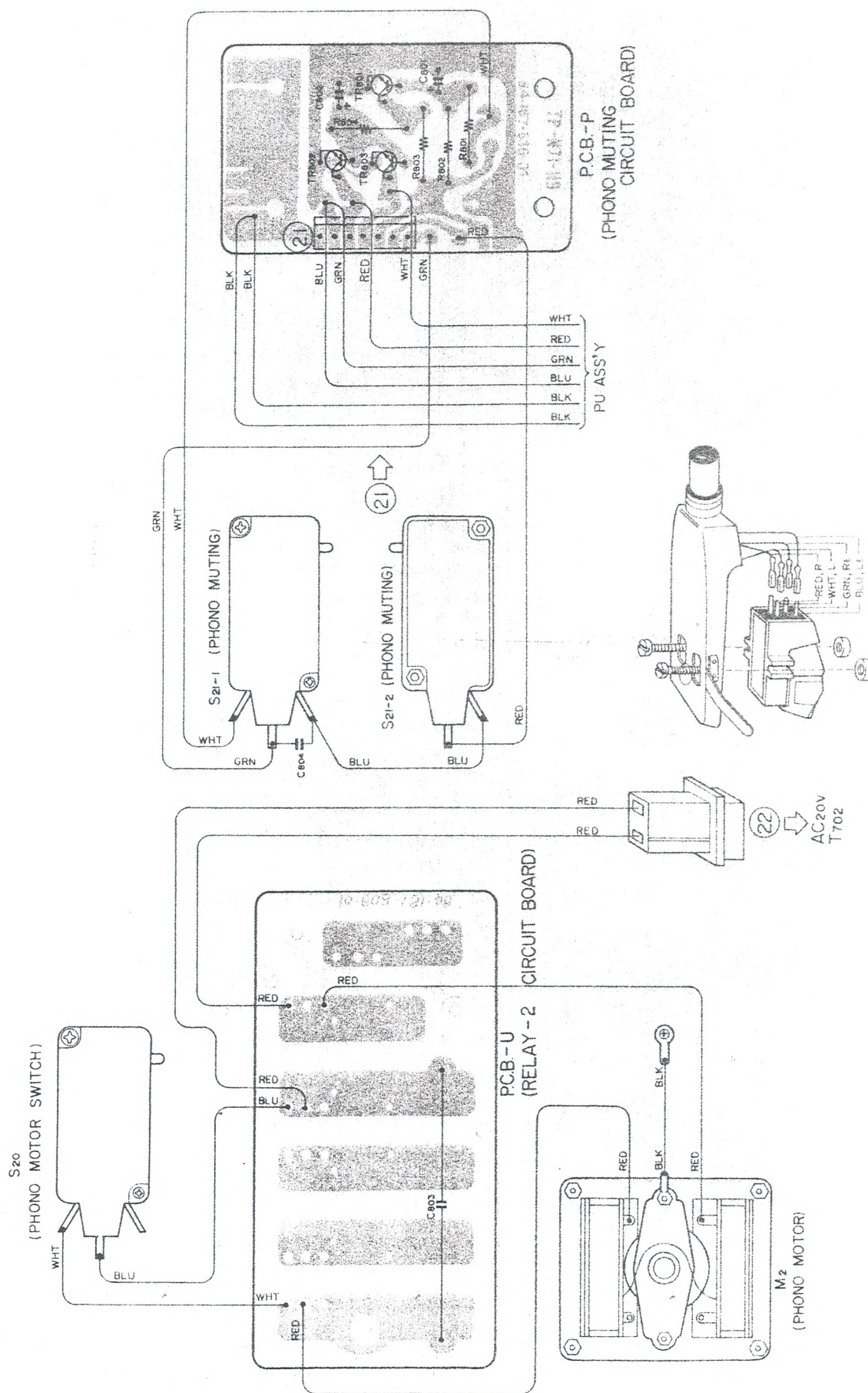
WIRING-4



WIRING-3

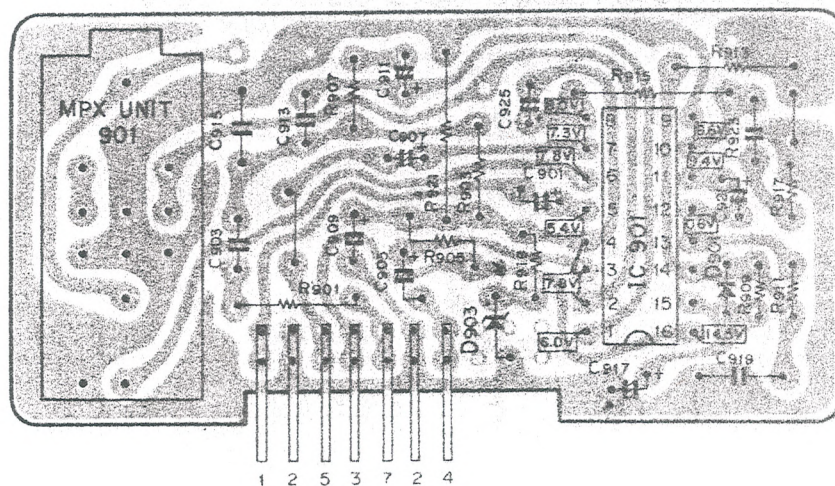


WIRING-5

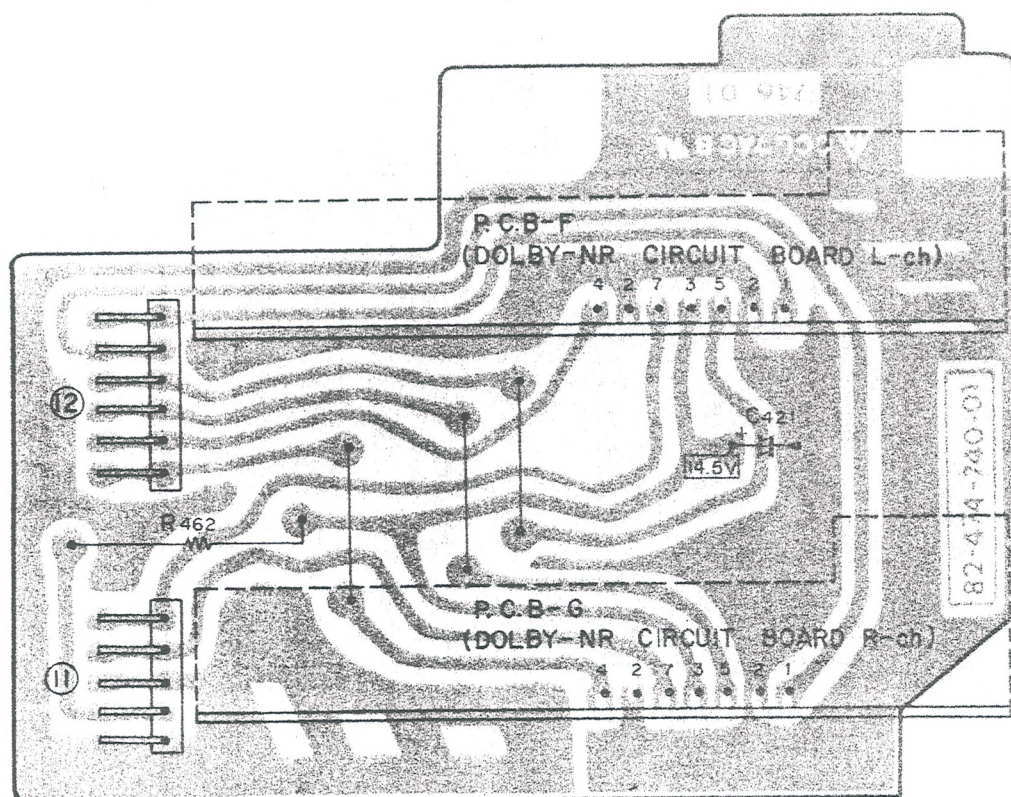


DOLBY-NR CIRCUIT BOARD

P.C.B-F (DOLBY-NR CIRCUIT BOARD L-ch)

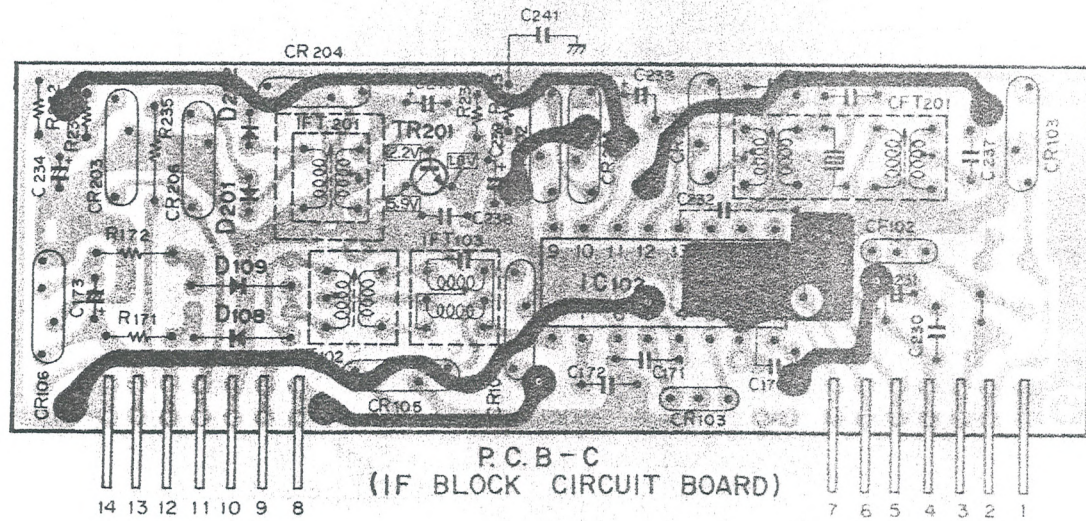


RELAY-1 CIRCUIT BOARD



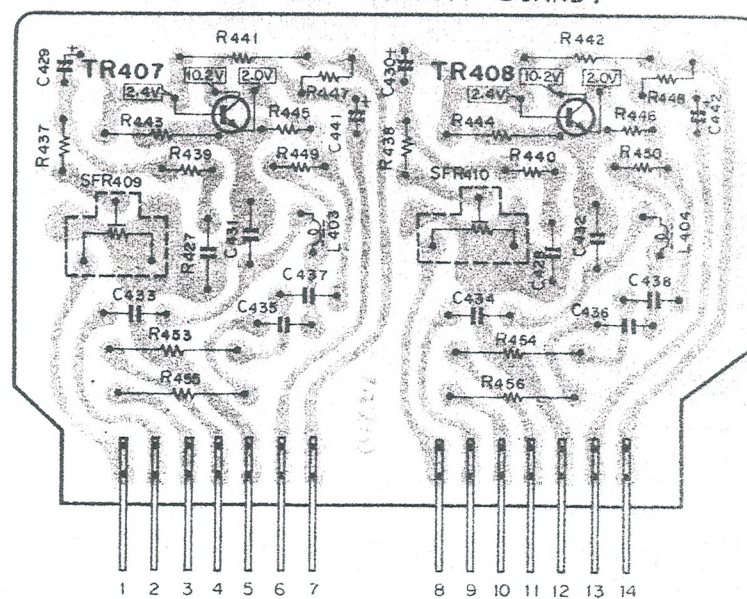
P.C.B-H (RELAY-1 CIRCUIT BOARD)

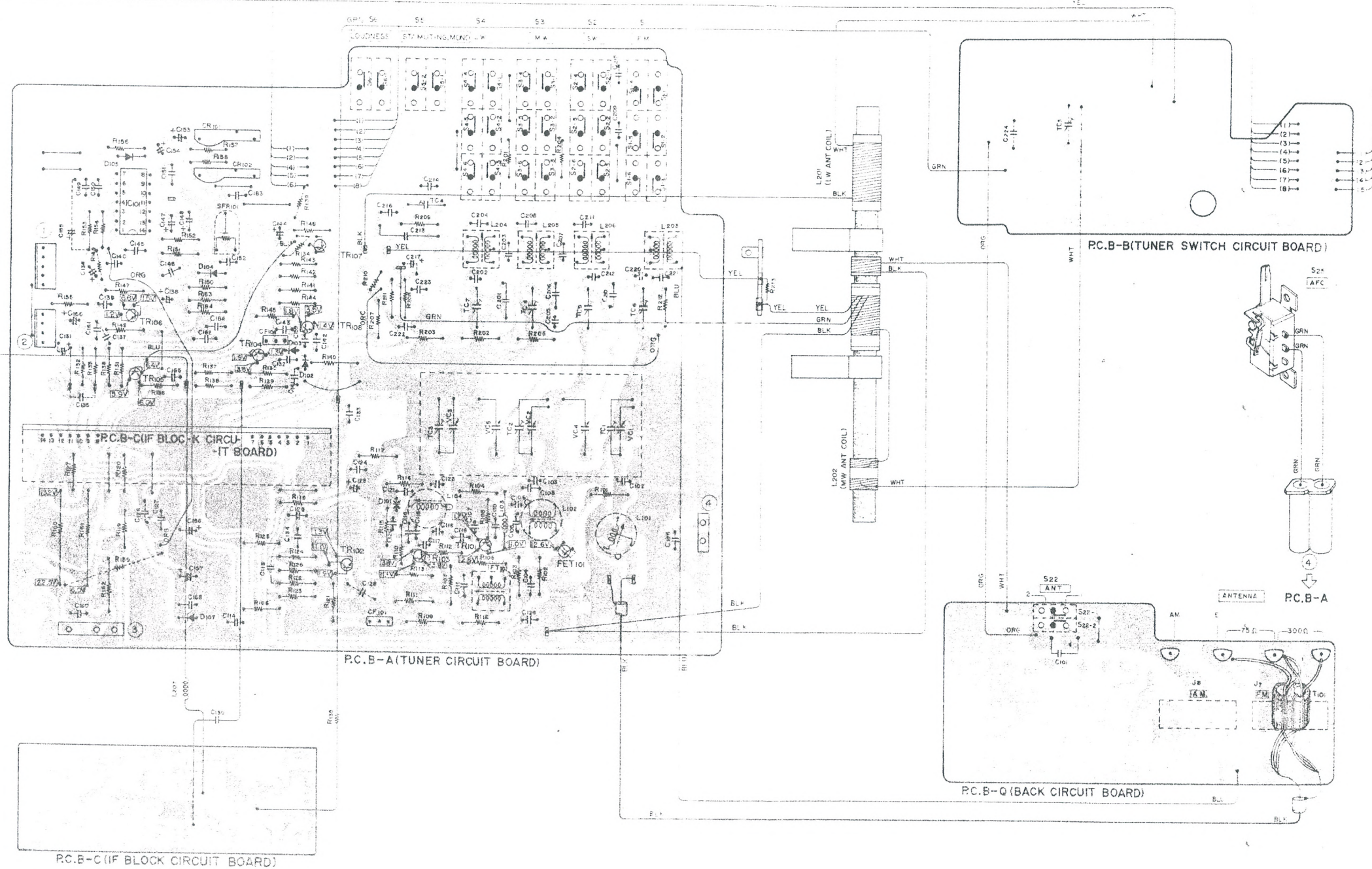
IF BLOCK CIRCUIT BOARD



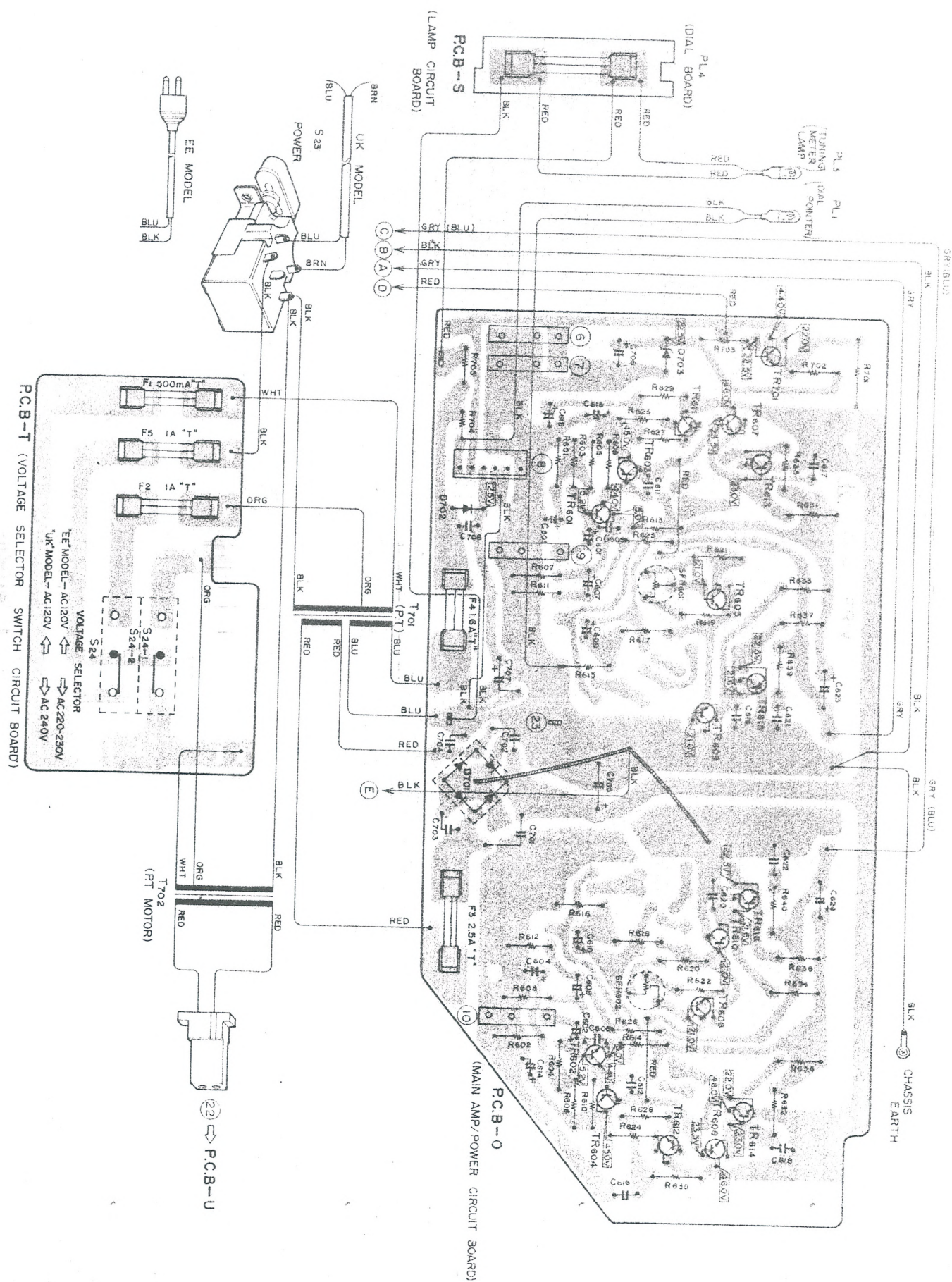
REC AMP CIRCUIT BOARD

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

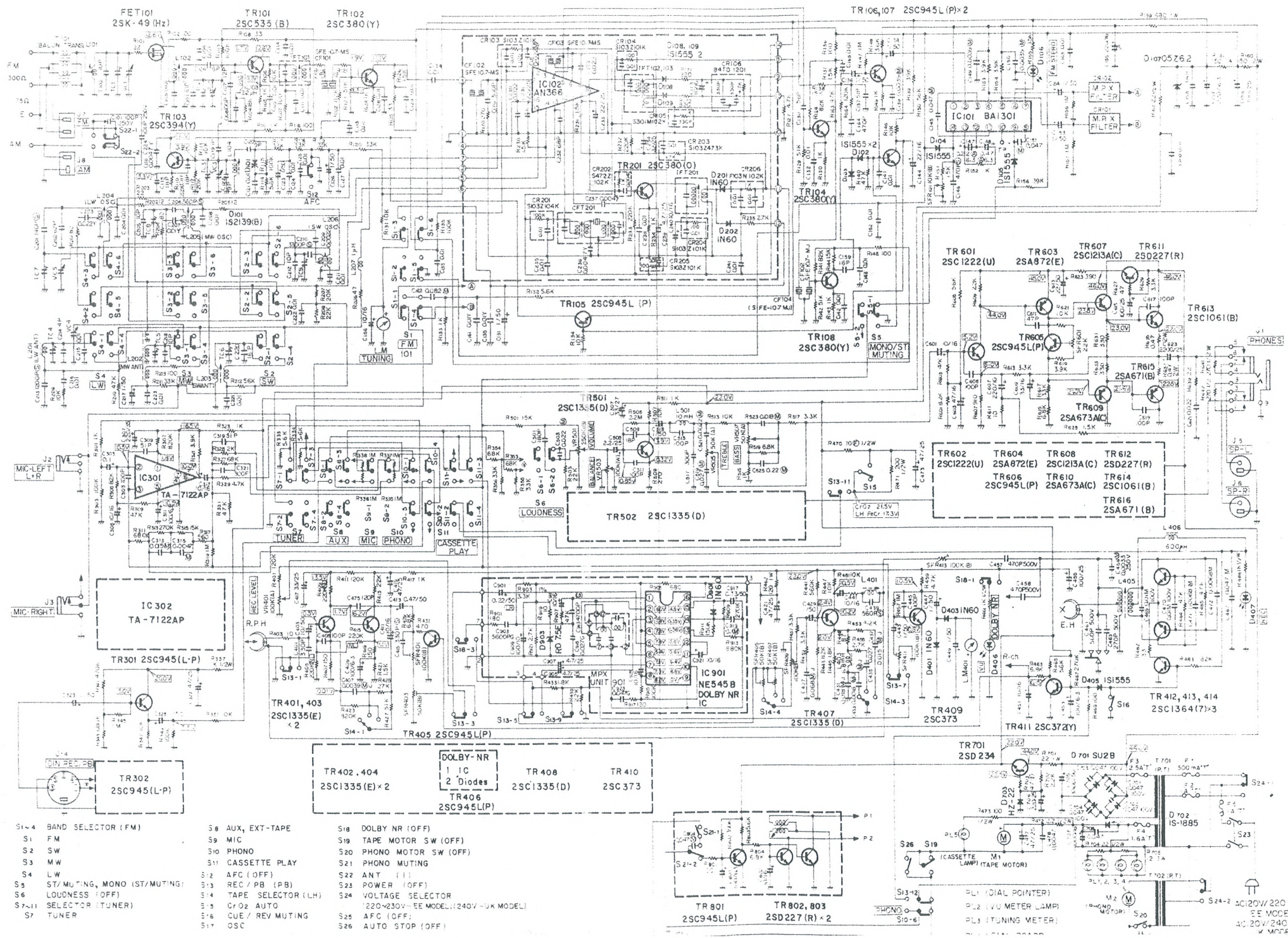


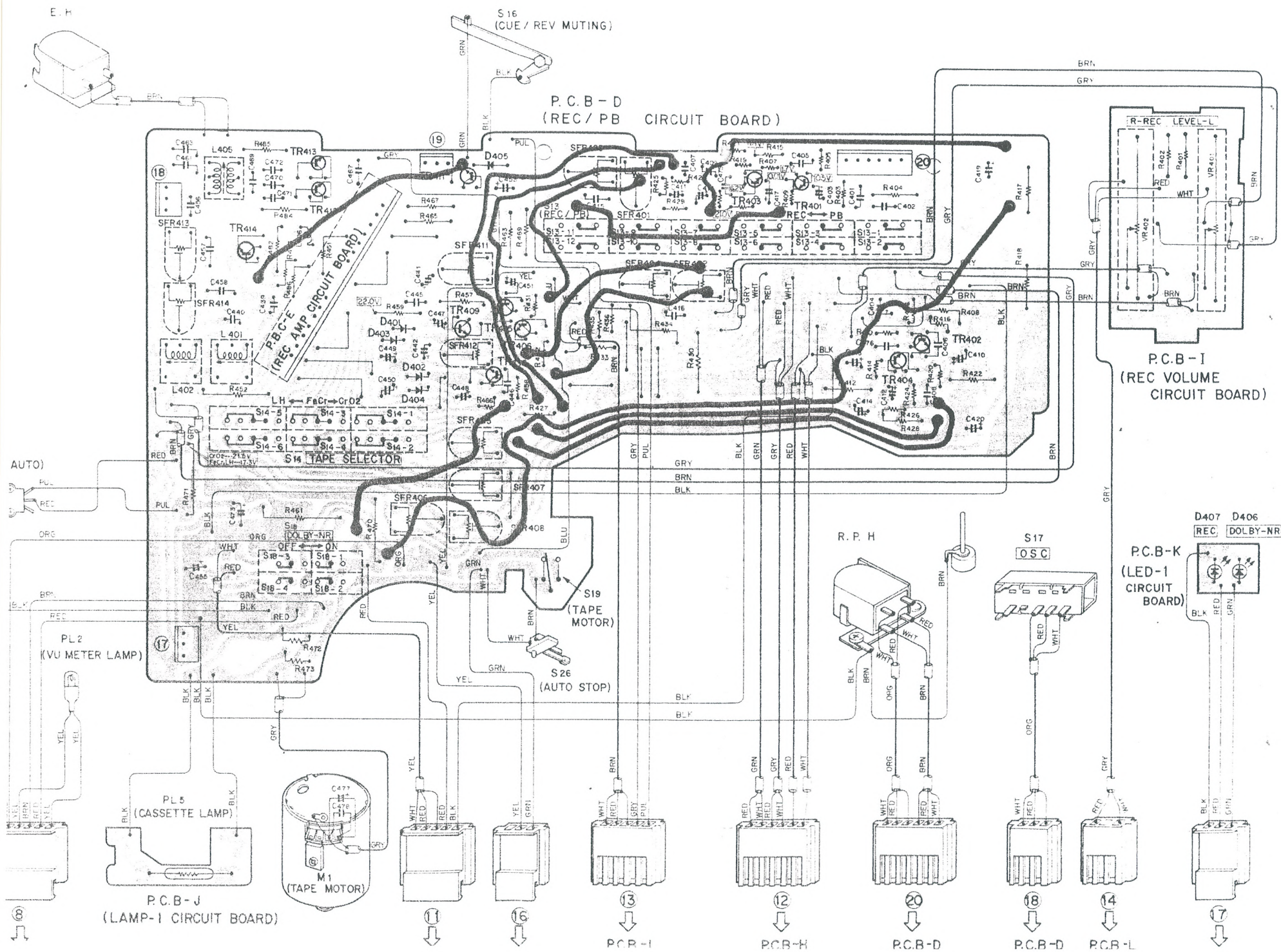


WIRING-6



SCHEMATIC DIAGRAM





SCHEMATIC DIAGRAM

