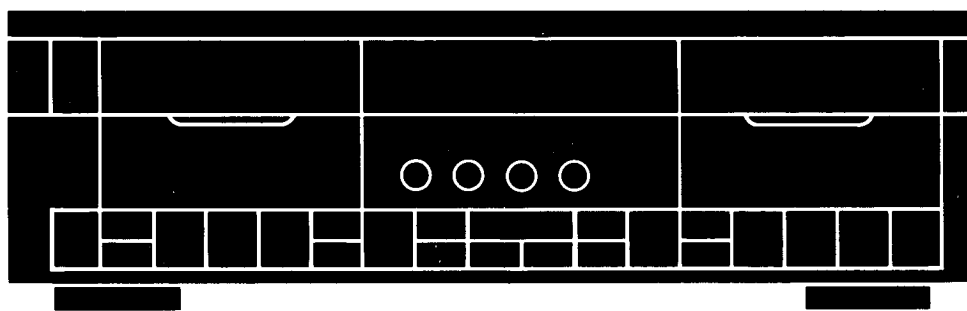


The Harman Kardon Model DC5500 DUAL CASSETTE DECK

Manual 178A

Technical Manual



The following marks found in the parts list of this manual identify the models as follows.

- BK** : North America area model Black version
- IB** : International model Black version
- BB** : Australia model Black version

CONTENTS

SPECIFICATIONS	2	GENERAL UNIT	8
LEAKAGE TEST	2	GENERAL UNIT PARTS LIST	9
CONTROLS AND FUNCTIONS	3	CASSETTE TAPE PLAYER/RECORDER	
DISASSEMBLY PROCEDURES	4	MECHANISM, PARTS LIST	9
POWER CORD REPLACEMENT	4	WIRING DIAGRAM	10
BLOCK DIAGRAM	4	P. C. BOARD	11
CIRCUIT DESCRIPTION	4	ELECTRICAL PARTS LIST	13
TIMING CHART	5	IC BLOCK DIAGRAM	20
ALIGNMENT PROCEDURES	6	SCHEMATIC DIAGRAM	22

harman/kardon

Parts and Service Office
240 Crossways Park West, Woodbury, N.Y. 11797
1112-0020A152 P-129109 2000 Printed in Japan

SPECIFICATIONS

Track Configuration	Nominal	Limit	Dolby C NR	Nominal	Limit
	4-track 2 Channel Stereo		LN	66 dB	
	Cassette Deck		CrO ₂	70 dB	≧ 66 dB
			Metal	70 dB	≧ 66 dB
• MECHANICAL SECTION			Channel Separation	45 dB	≧ 35 dB
Record/Playback Tape Speed			Crosstalk	70 dB	≧ 60 dB
Drift 4.75 cm/sec.	0.2% ≤ 2.0%		Record/Playback Distortion		
Heads (Primary/Secondary)	2/1		(Input 1 kHz)		
Wow and Flutter	NAB	0.05% ≤ 0.1%	LN	0.7%	≧ 2.0%
	CCIR	0.08%	CrO ₂	0.8%	≧ 3.0%
Take Up Torque	50 gr.cm	35 – 70 gr.cm	Metal	0.9%	≧ 2.0%
Back Tension	2 gr.cm	2 – 6 gr.cm	MPX Filter Attenuation		
F.FWD Torque	100 gr.cm	70 – 150 gr.cm	at 15 kHz	0.3 dB	≧ 1 dB
Rew Torque	100 gr.cm	70 – 150 gr.cm	at 19 kHz	35 dB	≧ 30 dB
F.FWD/Rew Time	85 sec.	≤ 100 sec.	Erase Ratio (Input 80 Hz)		
(C-60 Tape)			LN	70 dB	≧ 60 dB
			Metal	60 dB	≧ 56 dB
• AMPLIFIER SECTION			Input Sensitivity		
Record/Playback Frequency			(Input 1 kHz) at Line Input	43 mV	30 – 80 mV
Response (at -3 dB)	LN	20 – 18 kHz	Input Impedance		
	CrO ₂	20 – 18 kHz	(Input 1 kHz) at Line Input	23 kΩ	15 – 25 kΩ
	Metal	20 – 18 kHz	• DIMENSIONS (WxHxD)		17-3/8" x 5" x 12-5/8"
Copy Mode Frequency					(443 x 134 x 342) mm
Response	LN	40 – 16 kHz	• WEIGHT		17.2 lbs (7.8 kg)
	CrO ₂	40 – 16 kHz			
	Metal	40 – 16 kHz	• POWER SUPPLY		
Bias Frequency		105 kHz ± 5 kHz	U.S.A and Canada models	AC120V, 60 Hz	
Playback Output		620 mV ± 1.5 dB	International model	AC230V/240V, 50/60 Hz	
Signal-to-Noise Ratio			• POWER CONSUMPTION		
(at Line Input)			U.S.A. and Canada models	29 W	
(Input 1 kHz, 100 mV)			International model	31 W	
IHF-A WTD (at Dolby level)					
Dolby NR off	LN	51 dB			
	CrO ₂	54 dB			
	Metal	54 dB			
Dolby B NR	LN	61 dB			
	CrO ₂	64 dB			
	Metal	64 dB			

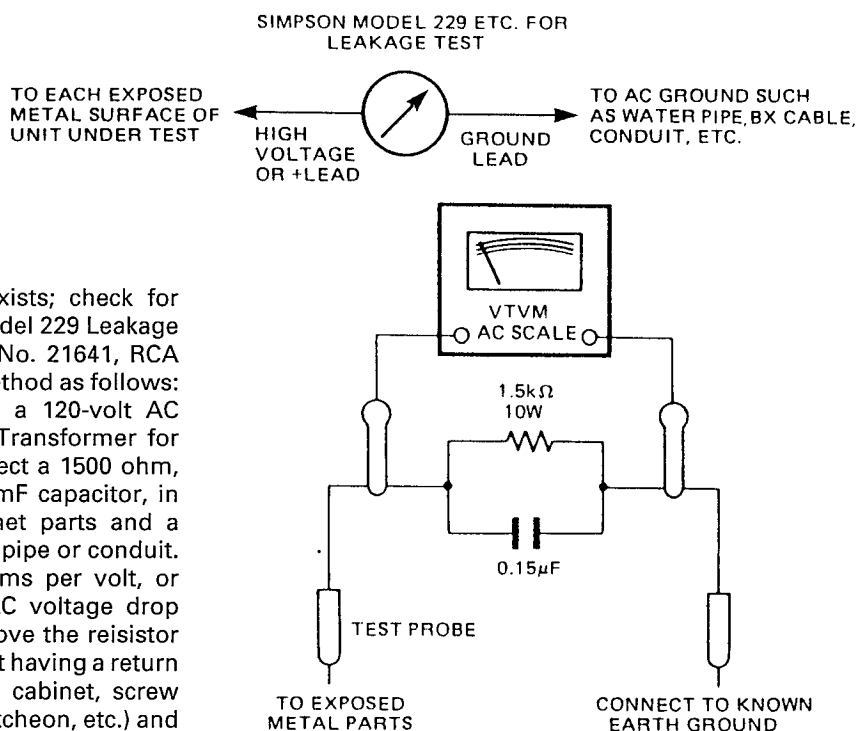
These specifications are service target specs. Specifications and components are subject to change without notice. Overall performance will be maintained or improved.

LEAKAGE TEST (FOR SERVICE ENGINEERS IN THE U.S.A)

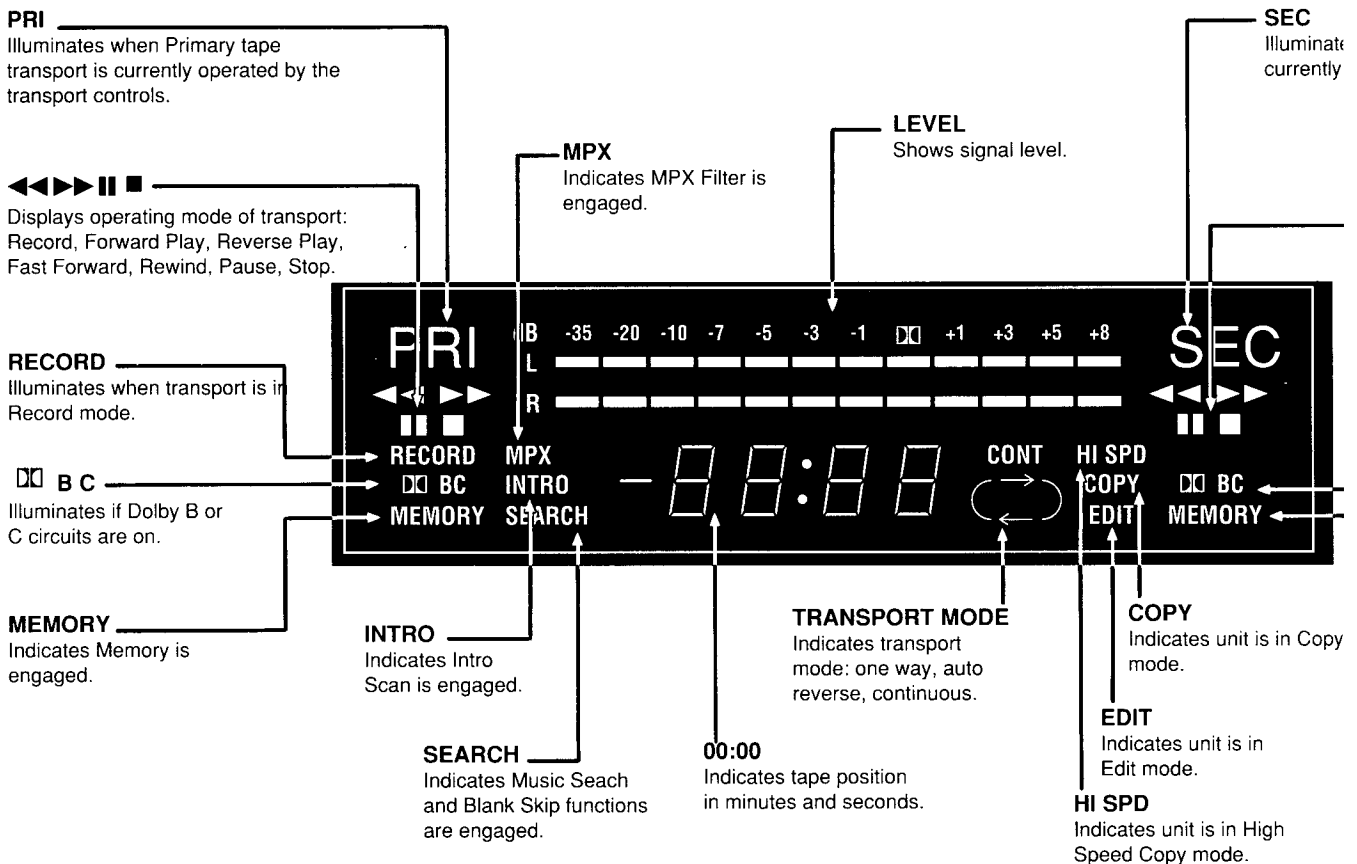
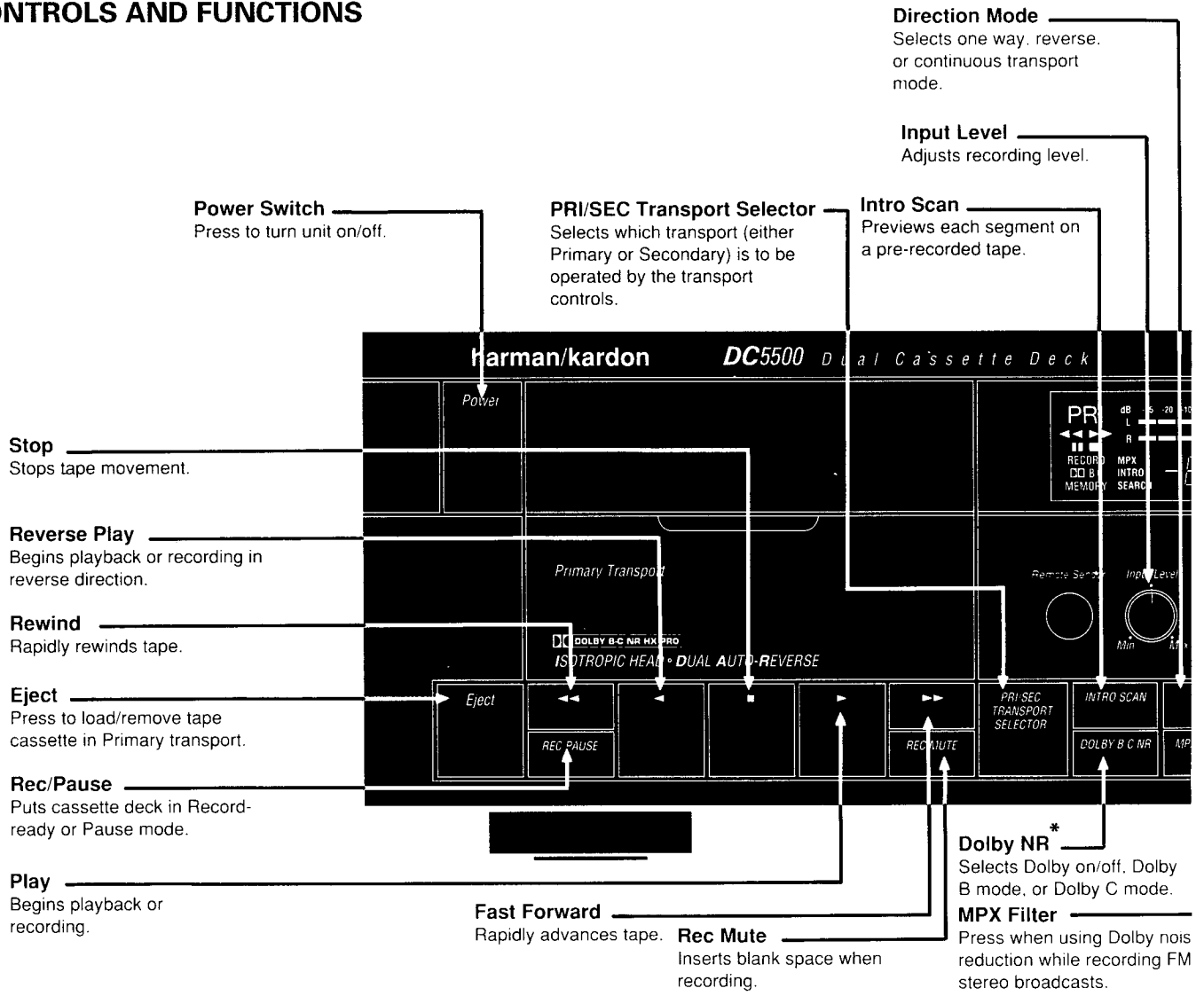
Before returning the unit to the user, perform the following safety checks:

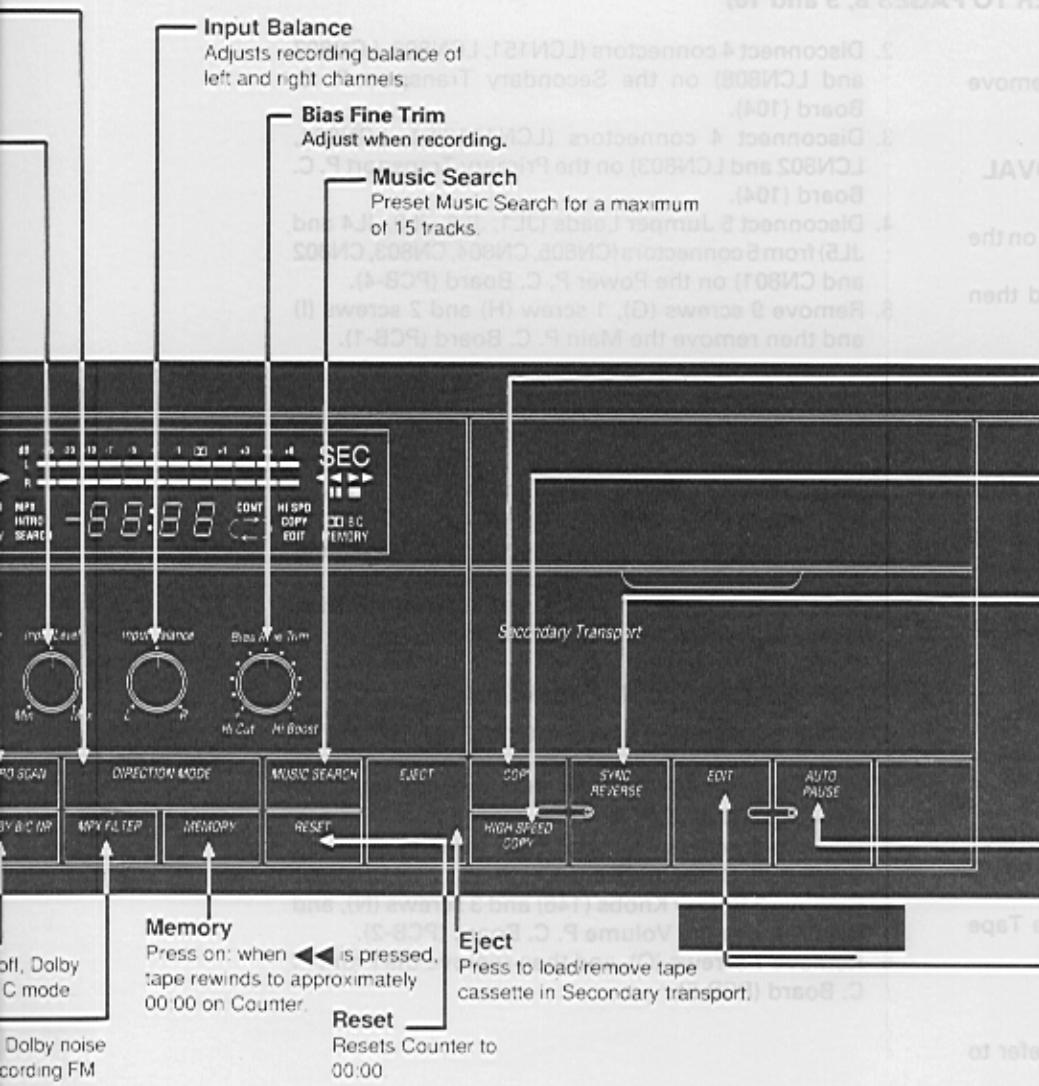
1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the unit.
2. Replace all protective devices such as nonmetallic control knobs, insulating fishpapers, cabinet backs, or shields, isolation resistor/capacitor networks, mechanical insulators, etc.
3. Be sure that no shock hazard exists; check for leakage current using Simpson Model 229 Leakage Tester, standard equipment item No. 21641, RCA Model WT540A or use alternate method as follows: Plug the AC line cord directly into a 120-volt AC receptacle (do not use an Isolation Transformer for this test). Using two clip leads, connect a 1500 ohm, 10-watt resistor paralleled by a 0.15mF capacitor, in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit. Use a VTVM or VOM with 1000 ohms per volt, or higher sensitivity to measure the AC voltage drop across the resistor. (See Diagram.) Move the resistor connection to each exposed metal part having a return path to the chassis (antenna, metal, cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor. (This test should be performed with the power switch in both the On and Off positions.)

A reading of 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



CONTROLS AND FUNCTIONS





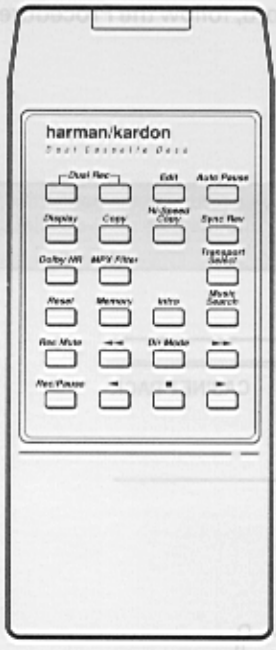
- Copy**
Press to begin automatic copying procedure.
- Hi-Speed Copy**
Press to begin automatic high speed copying procedure.
- Sync Reverse**
Activates automatic synchronized reverse copying in Copy and Hi-Speed Copy modes.
- Auto Pause**
Press to activate Auto Pause when in Edit Mode.
- Edit**
Press to begin Edit mode.

SEC
Illuminates when Secondary tape transport is currently operated by the transport controls.

▶▶▶▶
Displays operating mode of transport: Record, Forward Play, Reverse Play, Fast Forward, Rewind, Pause, Stop.

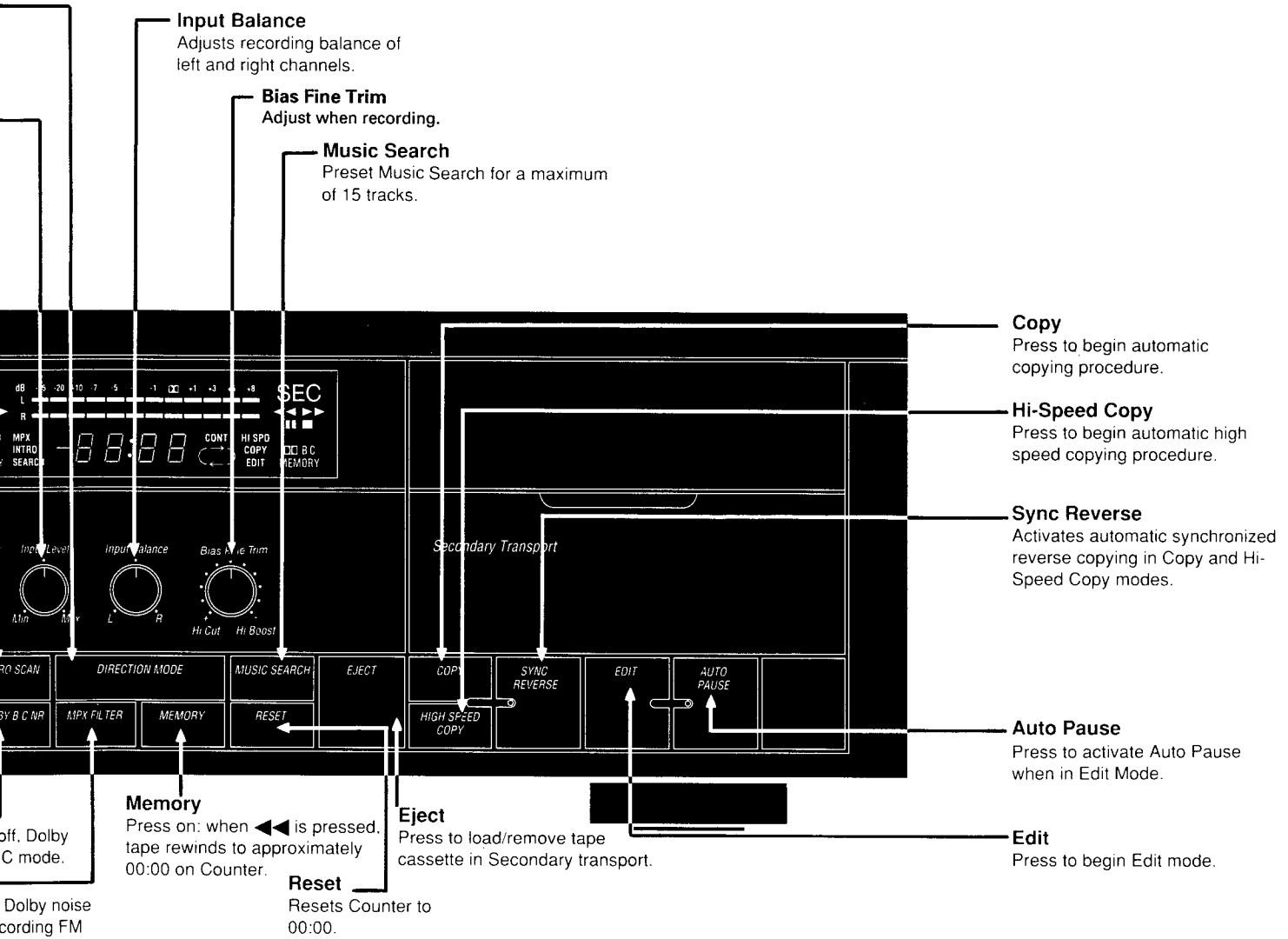
BC
Illuminates if Dolby B or C circuits are on.

MEMORY
Indicates Memory is engaged.



The control unit includes buttons that function the same way as the corresponding keys on the cassette deck.

*** NOTE**
Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen. "DOLBY" and the double-D symbol **BC** and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

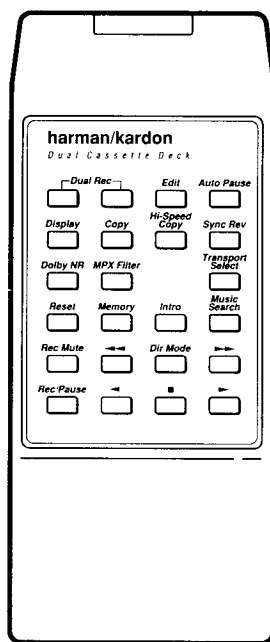


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DISASSEMBLY PROCEDURES (REFER TO PAGES 8, 9 and 10)**1 TOP COVER (133) REMOVAL**

Remove 4 screws (A) and 2 screws (B), and then remove the Top Cover (133).

2 FRONT PANEL ASSEMBLY (AA) REMOVAL

1. Remove the Top Cover (133).
2. Disconnect 1 connector (JL901) from (CN904) on the Main P. C. Board (PCB-1).
3. Remove 6 screws (C) and 3 screws (D), and then remove the Front Panel Assembly (AA).
4. If necessary, unsolder the lead wires.

3 CASSETTE TAPE RECORDER MECHANISM ASSEMBLY (103) REMOVAL

1. Remove the Front Panel Assembly (AA). (Refer to Step 2.)
2. Disconnect 4 connectors (LCN801, LCN802, LCN803 and LCN101/351) on the Primary Transport P. C. Board (103).
3. Remove 4 screws (E), and then the Cassette Tape Recorder Mechanism Assembly (103).

4 CASSETTE TAPE PLAYER MECHANISM ASSEMBLY (104) REMOVAL

1. Remove the Front Panel Assembly (AA). (Refer to Step 2).
2. Disconnect 4 connectors (LCN151, LCN806, LCN807 and LCN808) on the Secondary Transport P. C. Board (104).
3. Remove 4 screws (F), and then the Cassette Tape Player Mechanism Assembly (104).

5 MAIN P. C. BOARD (PCB-1) REMOVAL

1. Remove the Front Panel Assembly (AA). (Refer to step 2).

2. Disconnect 4 connectors (LCN151, LCN806, LCN807 and LCN808) on the Secondary Transport P. C. Board (104).
3. Disconnect 4 connectors (LCN101/351, LCN801, LCN802 and LCN803) on the Primary Transport P. C. Board (104).
4. Disconnect 5 Jumper Leads (JL1, JL2, JL3, JL4 and JL5) from 5 connectors (CN805, CN804, CN803, CN802 and CN801) on the Power P. C. Board (PCB-4).
5. Remove 9 screws (G), 1 screw (H) and 2 screws (I) and then remove the Main P. C. Board (PCB-1).

6 POWER P. C. BOARD (PCB-4) REMOVAL

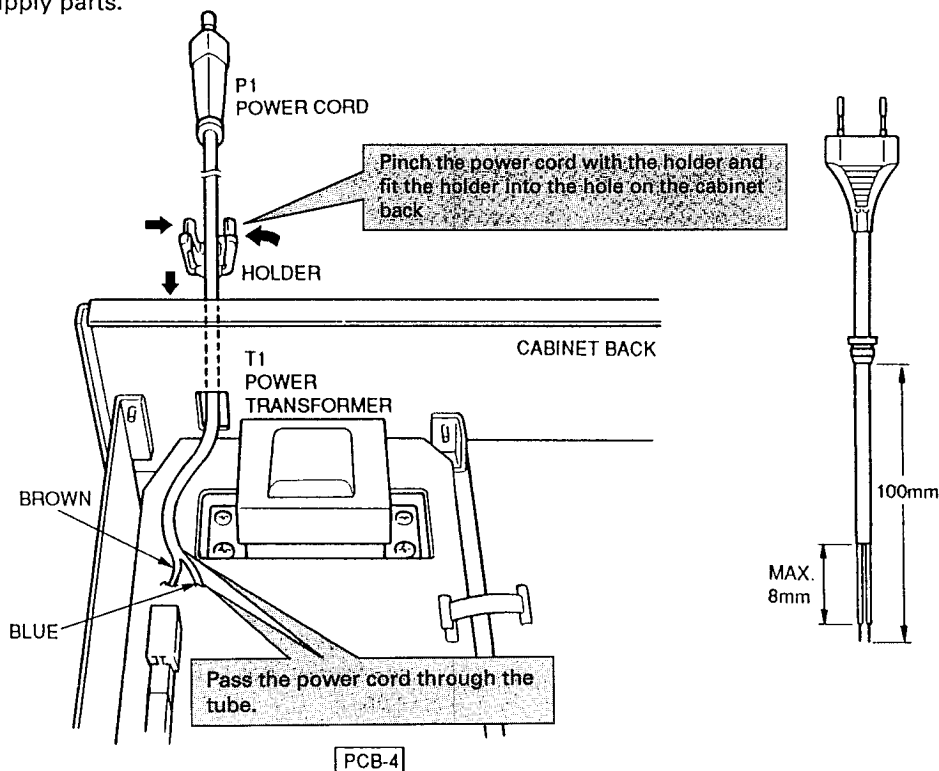
1. Remove the Front Panel Assembly (AA). (Refer to step 2).
2. Disconnect 5 Jumper Leads (JL1, JL2, JL3, JL4 and JL5) on the Power P. C. Board (PCB-4).
3. Disconnect 3 connectors (LCN801, LCN802 and LCN803) on the Primary Transport P. C. Board.
4. Remove 5 screws (J) and 4 screws (K), and then remove the Power P. C. Board (PCB-4).

7 OTHER P.C. BOARDS REMOVAL

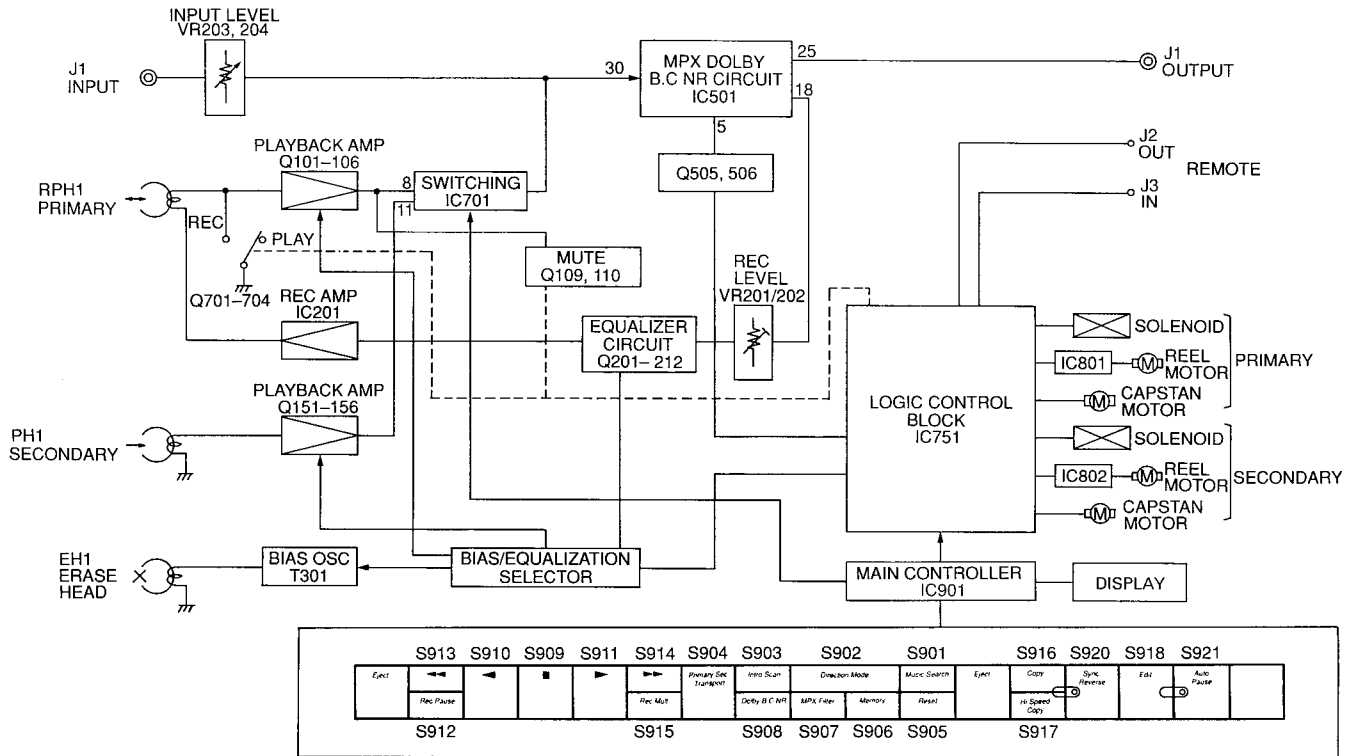
1. Remove the Front Panel Assembly (AA). (Refer to step 2).
2. Remove 4 screws (L), and then remove the Cont SW-L P. C. Board (PCB-7).
3. Remove 3 screws (M), and then remove the Cont SW-R P. C. Board (PCB-6).
4. Remove 3 Rotary Knobs (146) and 3 screws (N), and then remove the Volume P. C. Board (PCB-2).
5. Remove 7 screws (O), and then remove the Front P. C. Board (PCB-5).

POWER CORD REPLACEMENT (FOR SERVICE ENGINEERS OTHER THAN NORTH AMERICA)

In order to prevent fire shock hazard when replacing the power cord, follow the Procedure below to replace the part with the standard supply parts.



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

PLAYBACK SIGNAL

The signal from the playback head (Primary Transport) is amplified by the playback amplifier Q101, Q103 and Q105 (L ch.), and is applied to the pin 29 (L ch.) and 2 (R ch.) of the Dolby NR IC501 (B/C type) through the Switching IC701. Use the same signal for both the secondary transport and the primary transport. Switching of the playback signal from the record mode (external input signal) to the playback mode is performed inside IC501.

IC501 is usually switched to the playback mode. However, the control signal transmitted to the pin 5 of IC501 from IC751 through Q505 and Q506 switches IC501 from the record mode to the playback mode. The input signal to IC501 is output from the pins 25 (L ch.) and 6 (R ch.) and applied to the OUTPUT AMP.

RECORD SIGNAL

The signal from the INPUT jack is controlled by the INPUT LEVEL control. It is applied to the pins 30 (L ch.) and 1 (R ch.) of the Dolby NR IC501 (B/C type). Switching of the record signal from the playback mode to the record mode is performed inside IC501. The control signal transmitted to the pin 5 of IC501 from IC751 through Q505 and Q506 switches IC501 from the playback mode to the record mode.

The input signal to the Dolby NR IC is output from the pins 28 (L ch.) and 3 (R ch.) of IC501 and passed through the MPX filter. Then it is input to the pins 27 (L ch.) and 4 (R ch.) and is output from the pins 24 (L ch.) and 7 (R ch.). The encoded signal is input to the pins 23 (L ch.) and 8 (R ch.) and then it is output from the pins 18 (L ch.) and 13 (R ch.). The signal output from IC501 passes through the record equalizer circuit and is amplified by the record amplifier of IC201. The amplified signal is then applied to the recording head after being synthesized by a bias signal.

MUTING OPERATION

The signal that mutes the sound produced at switching to recording or playback is applied from IC751 of the logic control block.

When the "STOP" button is pressed, the mute signal output from the pin 22 of IC751 turns ON Q709 (L ch.) and Q710 (R ch.) to short-circuit the output signals of the playback amplifiers for muting. For the purpose of preventing generation of noise at power ON/OFF, the mute signal is output from Q51. The muting is done by short circuiting the output signal with Q709 (L ch.) and Q710 (R ch.) turned ON.

LOGIC FOR RECORD MODE

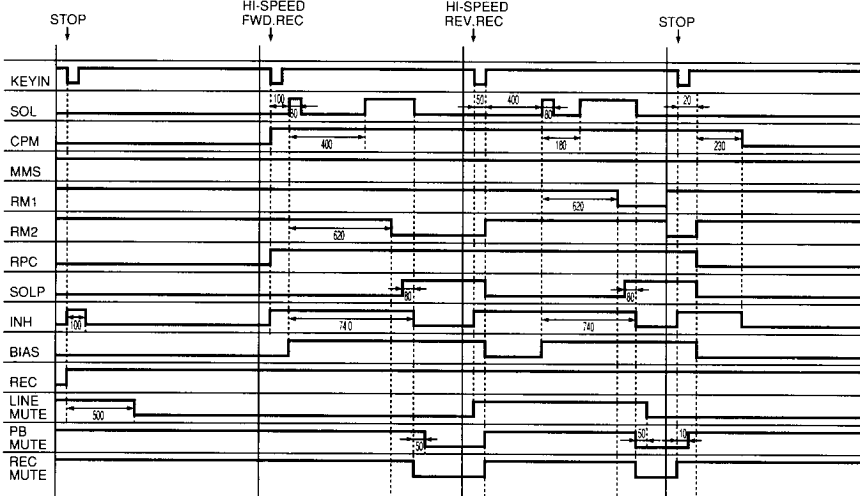
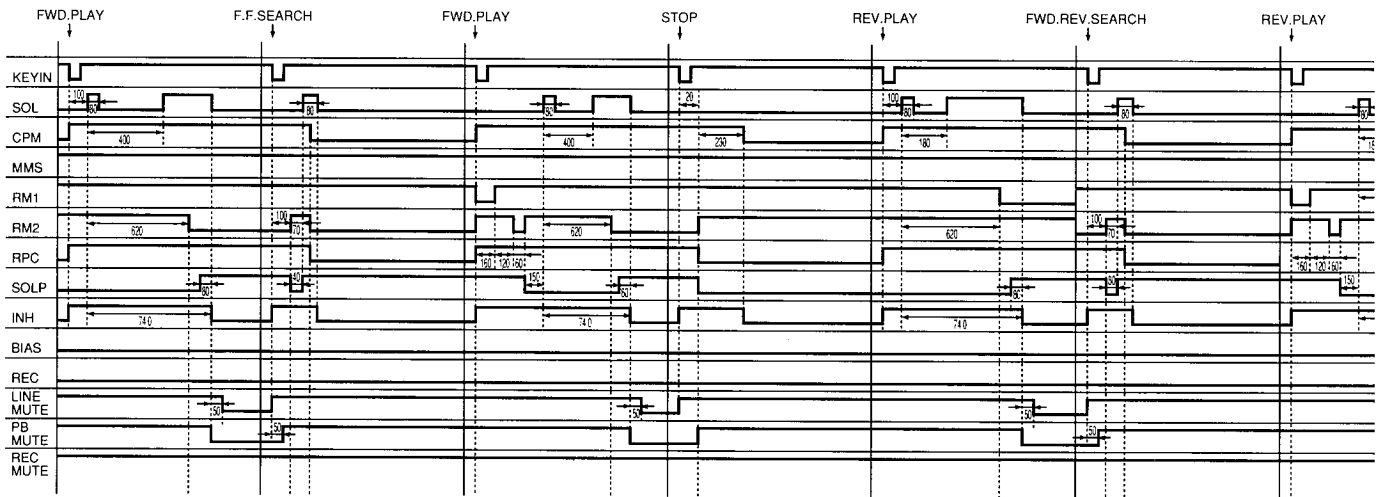
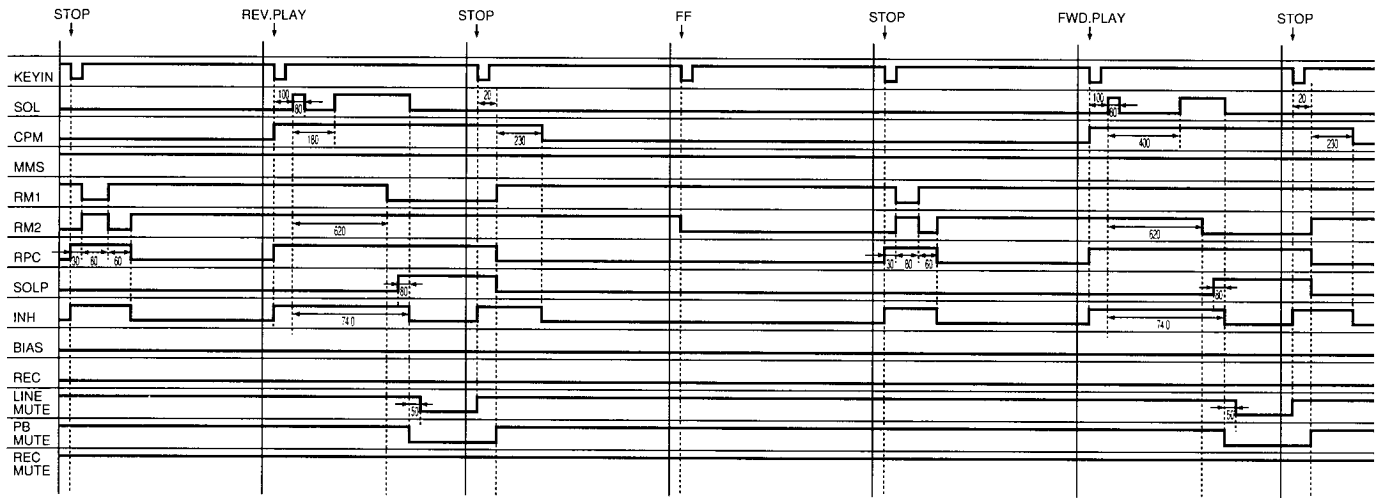
When the "REC" button is pressed, the pin 11 of IC751 becomes high level and Q109 (L ch.) and Q110 (R ch.) turn ON. The input to the Dolby NR IC is muted. Also Q712 and Q713 turn ON and Q711 turns OFF. Therefore Q701, Q703 (L ch.) and Q702, Q704 (R ch.) turn OFF to release the muting of the outputs from the record amplifiers.

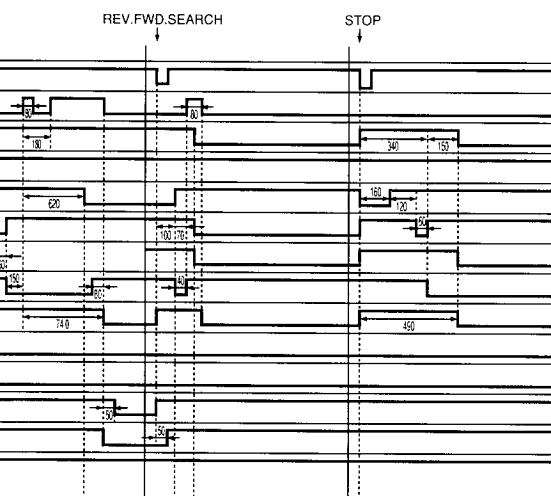
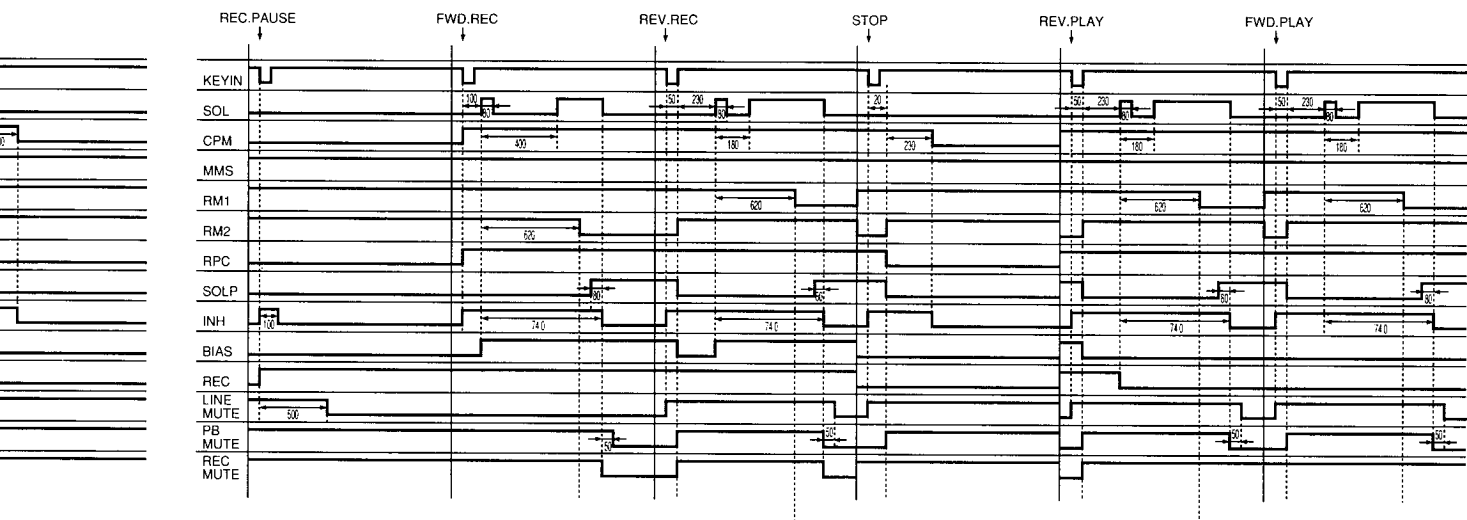
Also, Q505 turns ON and Q506 turns OFF to make the pin 5 of IC501 high level. Therefore the mode is switched to the record mode.

LOGIC FOR RECORD TO PLAYBACK MODE

When the "STOP", "PAUSE" or "PLAY" button is pressed, the pin 12 of IC751 becomes high level. Q219 turns ON and Q213 (L ch.), Q214 (R ch.) turn ON to mute the inputs to the record amplifiers. Also, Q712 and Q713 turn OFF and Q711 turns ON to turn ON Q701, Q703 (L ch.) and Q702, Q704 (R ch.). Therefore the outputs from the record amplifiers are muted. Also, Q505 turns OFF and Q506 turns ON to make the pin 5 of IC501 low level. Therefore the mode is switched to the playback mode.

TIMING CHART





ALIGNMENT PROCEDURES (REFER TO PAGES 11, 12, 23, 24 AND 25)

CASSETTE MECHANISM CONFIRMATION

Make sure to confirm conditons of the cassette mechanism as follows before adjustment.

1. Confirmation of erase prevention function

- The switch should turn ON when a tape with erroneous erase preventive pawl is inserted. (Use a tape which is 0.2 mm smaller than the minimum size of 62.9 mm or a MAZ-0184-C gauge one.)
- When the switch arm is moved back gradually from the ON position, the switch turn OFF.

2. Confirmation of cassette pack detection function

- The switch should turn ON when a tape is inserted. (Use a tape whose minimum size is 63.5 mm or a MAZ-0184-C gauge one.)
- When the switch arm is moved back gradually from the ON position, the switch should turn OFF.

3. Confirmation of eject function

- The cassette compartment opens smoothly and no abnormal noise should be heard while opening and closing.
- The eject lever opens smoothly without contacting the chassis and damper.
- The eject button can not be pressed during playback.

4. Confirmation of playback, fast forward and rewind functions

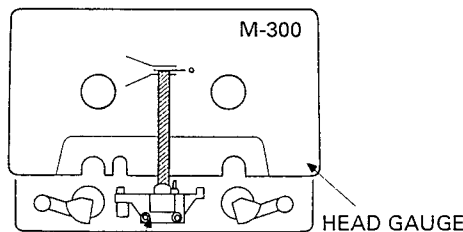
- The torque used in each of the playback, fast forward and rewind modes should be within specification.

Playback	35 gr.cm – 70 gr.cm
Fast Forward	70 gr.cm – 150 gr.cm
Rewind	70 gr.cm – 150 gr.cm
- No abnormal noise should be heard during operation in any mode. The solenoid switching sound should not be considered as a noise.

5. Confirmation of positions of record/playback head and playback head

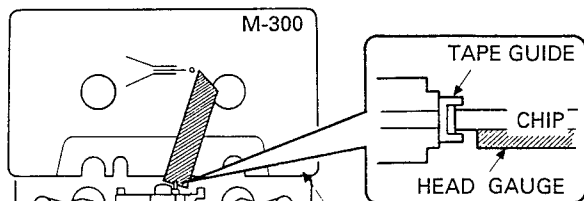
- Head height
 - a) Set the M-300 head gauge.
 - b) Set the unit in the playback mode and place the adjustment chip on the head gauge as shown in the Fig. 1.
 - c) The adjustment chip should not contact the tape guide of both record/playback head and playback head.

- Head position
 - a) Set the M-300 head gauge.
 - b) Set the unit in the playback mode and place the adjustment chip on the head gauge as shown in the Fig. 2.
 - c) With both record/playback head and playback head, the adjustment chip should be between MIN and MAX of the M-300 head gauge.



RECORD/PLAYBACK or PLAYBACK HEAD

Fig. 2



HEAD GAUGE

RECORD/PLAYBACK or PLAYBACK HEAD

HEAD AZIMUTH ADJUSTMENT SCREW

Fig. 1

ELECTRICAL ADJUSTMENT AND CONFIRMATION

1. Before adjustment

- Before electrical adjustment, make sure that confirmations of the cassette mechanism are all completed.
- After the power switch is pushed on, wait for 10 minutes before measuring to be sure of the most stable operation.
- Since head magnetization, dust accumulations, etc. are likely to introduce errors in the various characteristics, it is very important that the heads are properly demagnetized and cleaned before commencing any adjustment, particularly frequency response and head azimuth adjustment.

2. Instruments required

- Low frequency oscillator
- AC VTVM or dual channel AC VTVM
- Oscilloscope
- Wow/flutter meter
- Frequency counter
- Distortion meter

3. Test tapes

- Azimuth adjustment MTT-114 or TCC-153
- Tape speed adjustment MTT-111DN or TCC-112
- Playback output level adjustment MTT-150 or TCC-130
- Music search adjustment SCC-1425
- Playback frequency characteristic confirmation TCC-1216 or TCC-162C and TCC-262C
- Reference tapes
LN SCC-502
CrO₂ SCC-1360
METAL SCC-565

Note:

C-90 differs with C-60 in the thickness and bias is of unequal, so adjust with the tape whose bias is of Specified Value.

4. General conditions (unless otherwise noted)

Controls and Switches	Settings
Dolby NR	Off
Input Level	Maximum
MPX Filter	Off
Bias Fine Trim	Center
Input Balance	Center

Azimuth Adjustment

When the maximum level point of R channel does not equal that L channel, connect the oscilloscope as shown in Fig. 3 and proceed with azimuth adjustment so that L and R channels are in phase.

- Connect L channel tape out to "X (or V)" and R channel to "Y (or H)". Observe the lissajous waveform.
- Set L and R channels to monaural. Adjust vertical and horizontal gain so that the waveform becomes 45 degree.
- Adjust azimuth so that the measurement of "a" becomes maximum and the measurement of "b" becomes minimum against the 45 degree line.

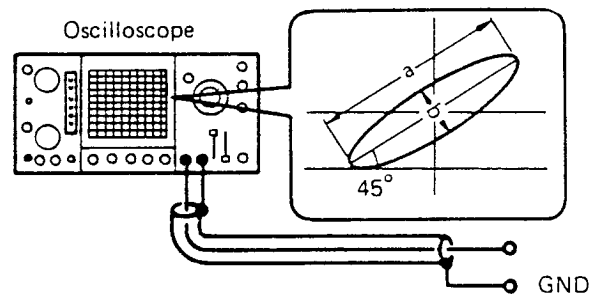
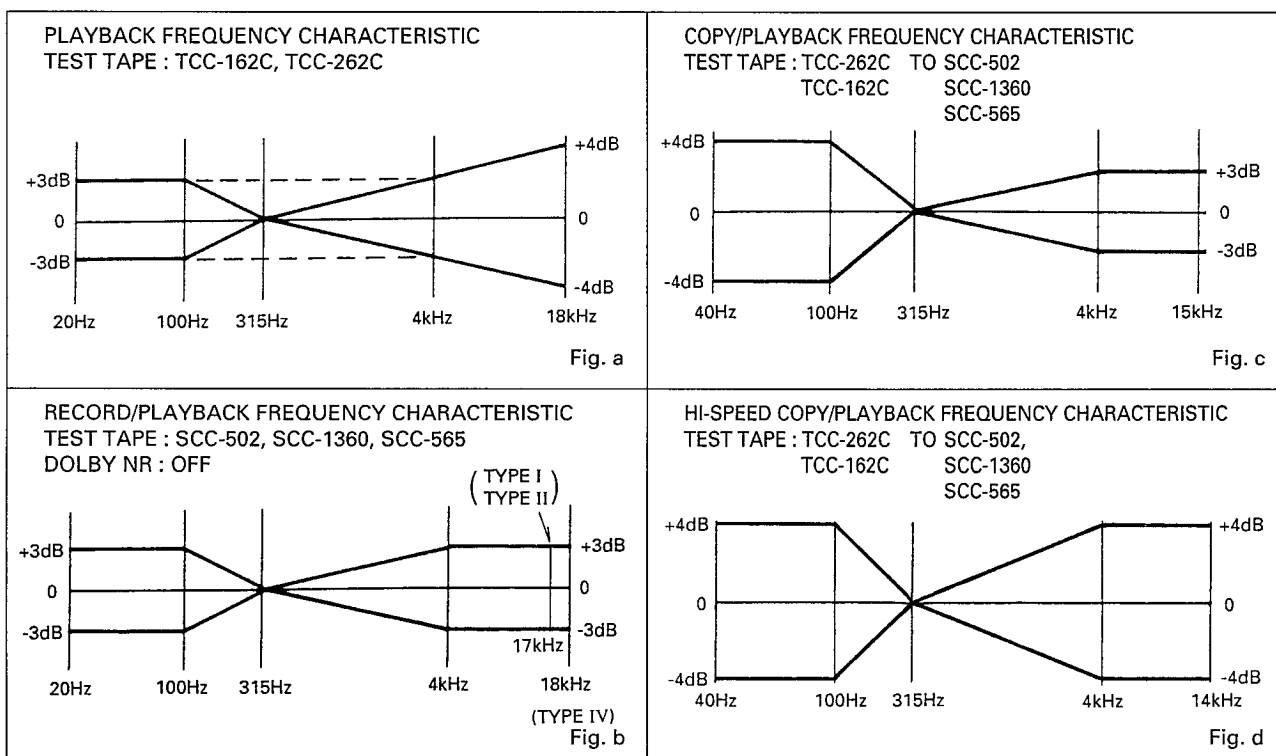

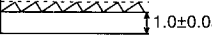


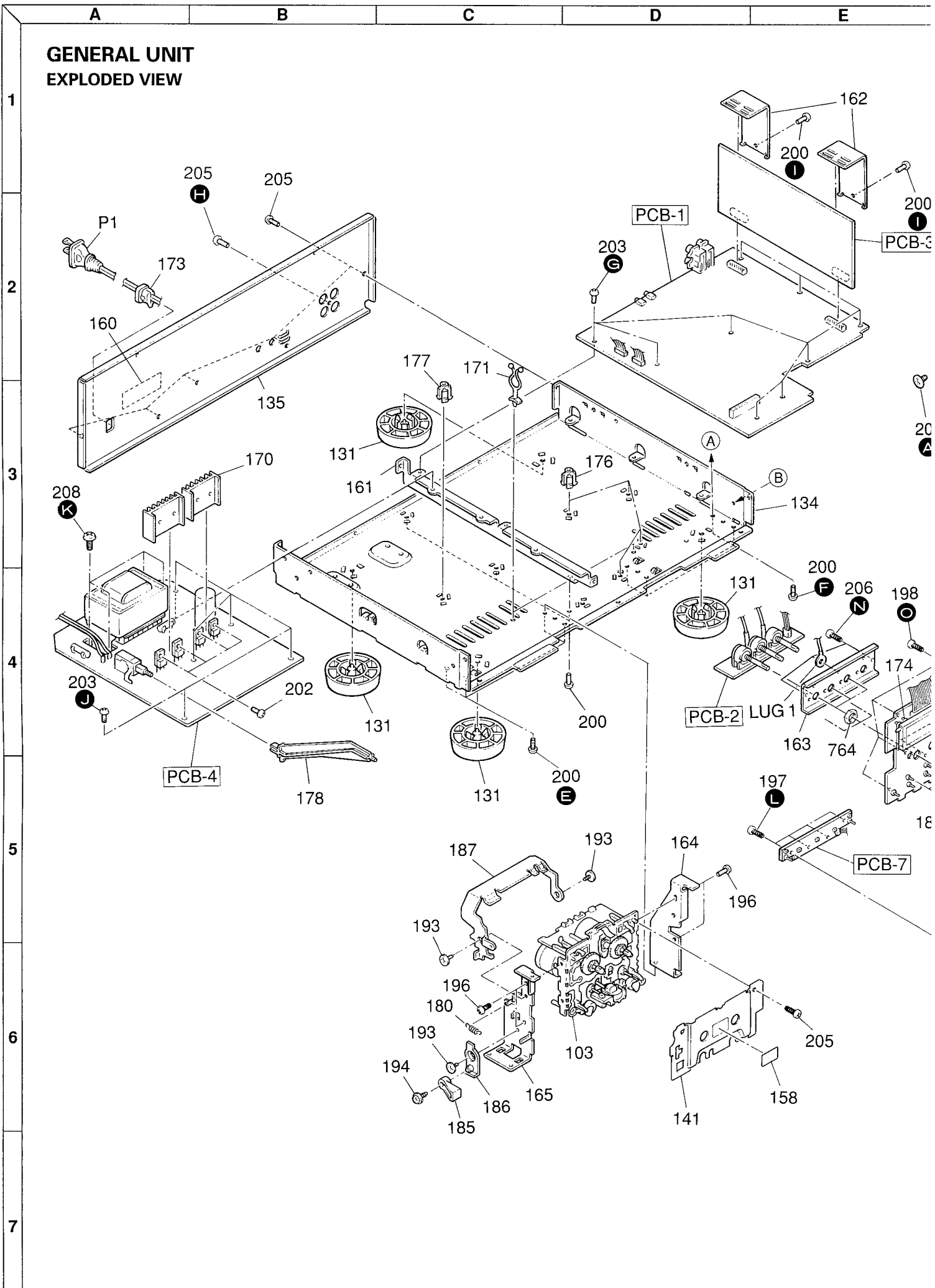
Fig. 3

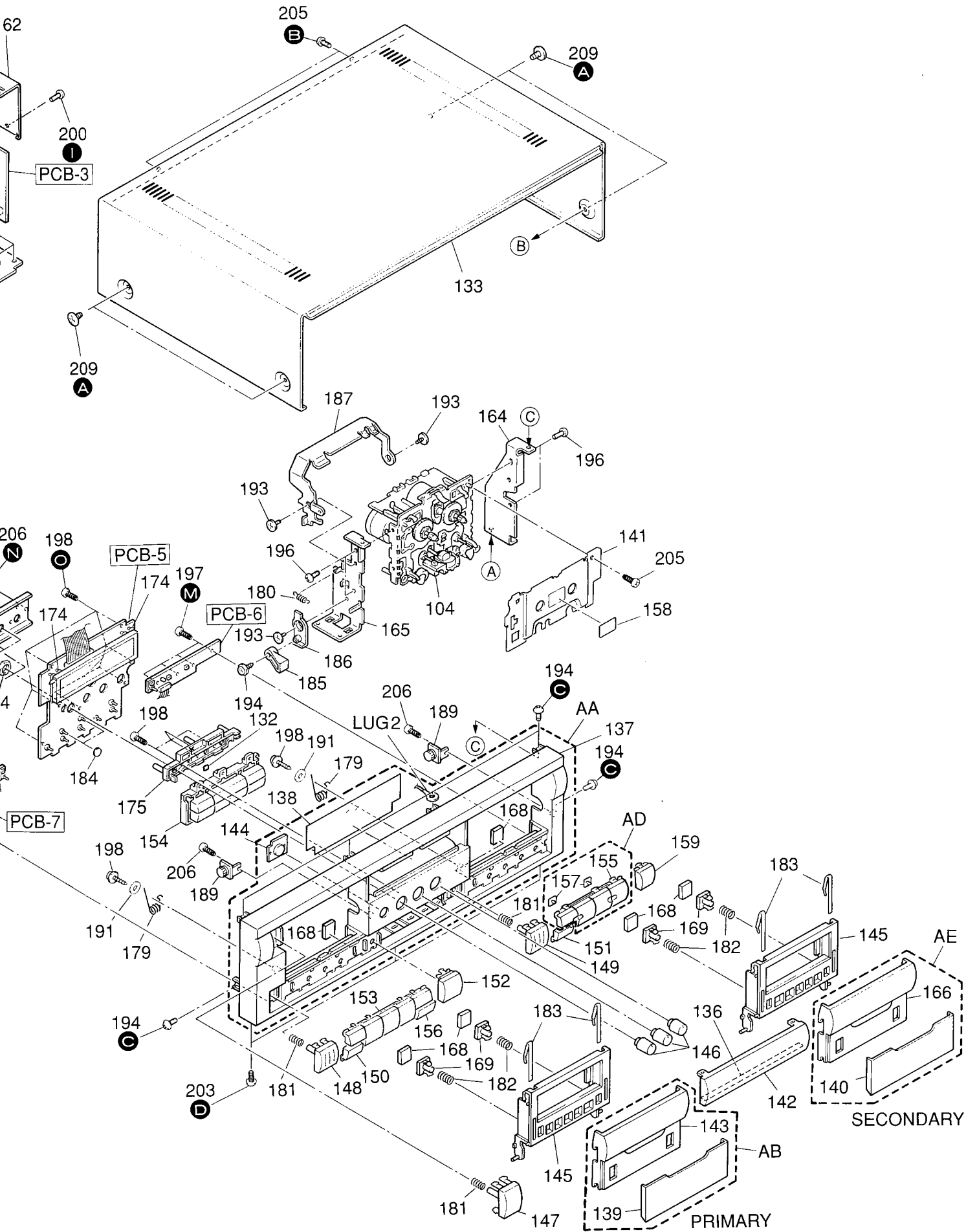


Step	Alignment	Instrument Required	Input Signal
1	Primary Deck Quick sensor	VTVM Black tape with leader tape	
2	Secondary Deck Quick sensor	VTVM Black tape with leader tape	
3	Azimuth	VTVM Oscilloscope Test tape (MTT-114 or TCC-153)	
4	Primary Deck Tape speed (Hi-speed)	Frequency counter Test tape (MTT-111DN)	
5	Primary Deck Tape speed (Normal speed)	Frequency counter Test tape (MTT-111DN)	
6	Secondary Deck Tape speed (Hi-speed)	Frequency counter Test tape (MTT-111DN)	
7	Secondary Deck Tape speed (Normal speed)	Frequency counter Test tape (MTT-111DN)	
8	Primary Deck Playback output level	VTVM Test tape (MTT-150 or TCC-130)	
9	Secondary Deck Playback output level	VTVM Test tape (MTT-150 or TCC-130)	
10	Primary Deck Playback frequency characteristic confirmation	VTVM Test tape (TCC-1216 or TCC-162C and TCC-262C)	
11	Secondary Deck Playback frequency characteristic confirmation	VTVM Test tape (TCC-1216 or TCC-162C and TCC-262C)	
12	Music Search	Oscilloscope Test tape (SCC-1425)	
13	Blank Search	Oscilloscope Test tape (SCC-1425)	
14	Bias frequency confirmation	Frequency counter	
15	Dolby HX PRO	Oscilloscope	
16	Bias trap	VTVM	
17	1	Bias level (pre-adjustment)	VTVM
	2		
	3		
18	Record level (pre-adjustment)	VTVM Blank tapes METAL SCC-565 CrO ₂ SCC-1360 Normal SCC-502	Apply 1 kHz signal to INPUT jack. Set INPUT LEVEL knob so that TP501 and TP502 to GND voltage is 560 mV in REC-PAUSE mode.
19	1	Record/playback frequency characteristic	VTVM Blank tapes CrO ₂ SCC-1360 METAL SCC-565 Normal SCC-502
	2		
	3		
20	Record level	VTVM Blank tapes CrO ₂ SCC-1360 METAL SCC-565 Normal SCC-502	Set INPUT LEVEL knob so that TP501 and TP502 to GND voltage is 560 mV (1 kHz) in REC-PAUSE mode.
21	High speed copy frequency characteristic	VTVM Blank tapes (Primary Deck) CrO ₂ SCC-1360 METAL SCC-565 Normal SCC-502 Test tape (Secondary Deck) TCC-185C	Apply 1 kHz signal to INPUT jack. The output at TP501 and TP502 are Dolby level -25dB. Then adjust with a 20 Hz to 30 kHz sweep signal.
22	High speed copy frequency characteristic	VTVM Blank tapes CrO ₂ SCC-1360 METAL SCC-565 Normal SCC-502 Test tape TCC-285C	Apply 1 kHz signal to INPUT jack. The output at TP501 and TP502 are Dolby level -25dB. Then adjust with a 20 Hz to 30 kHz sweep signal.
23	Meter level	VTVM	Apply 1 kHz signal to INPUT jack. Set INPUT LEVEL knob so that TP501 and TP502 to GND voltage is 1.5 dB below 775 mV.
24	MPX filter characteristic confirmation	VTVM	Apply 19 kHz, 15 kHz and 1 kHz signal to INPUT jack. Set INPUT LEVEL knob so that TP501 and TP502 to GND voltage is 775mV.

	Mode	Test Point	Adjustment	For
	PB (Primary)	TP809	VR803	Adjust VR803 so the voltage at the test point is 0.62V when the leader tape is running and 200 mV or less in the middle of tape.
	PB (Secondary)	TP859	VR853	Adjust VR853 so the voltage at the test point is 0.62V when the leader tape is running and 200 mV or less in the middle of tape.
	PB	TP501 (L ch), GND TP502 (R ch), GND	Azimuth screw	Maximum output Refer to "Azimuth Adjustment" on page 6.
	PB	TP501 (L ch), GND TP502 (R ch), GND	VR801	6020 Hz \pm 20 Hz (TP806 : GND connection) Adjust at the center of test tape.
	PB	TP501 (L ch), GND TP502 (R ch), GND	VR802	3010 Hz \pm 10 Hz Adjust at the center of test tape.
	PB	TP501 (L ch), GND TP502 (R ch), GND	VR851	6020 Hz \pm 20 Hz (TP856 : GND connection) Adjust at the center of test tape.
	PB	TP501 (L ch), GND TP502 (R ch), GND	VR852	3010 Hz \pm 10 Hz Adjust at the center of test tape.
	PB (Primary)	TP501 (L ch), GND TP502 (R ch), GND	VR101 (L ch) VR102 (R ch)	775 mV Tape selector is Normal position. Adjust at Dolby NR off.
	PB (Secondary)	TP501 (L ch), GND TP502 (R ch), GND	VR151 (L ch) VR152 (R ch)	775 mV Tape selector is Normal position. Adjust at Dolby NR off.
	PB (Primary)	TP501 (L ch), GND TP502 (R ch), GND	VR103 VR104	Adjust VR103 and VR104 so the playback frequency response (1 kHz/18 kHz) is +0.6 ~ 0.7 dB. Refer to Fig. a.
	PB (Secondary)	TP501 (L ch), GND TP502 (R ch), GND	VR153 VR154	Adjust VR153 and VR154 so the playback frequency response (1 kHz/18 kHz) is +0.6 ~ 0.7 dB. Refer to Fig. a.
	FORWARD SEARCH	TP601, GND	VR602	3.0 \pm 0.05V 
	SEARCH PLAYBACK	TP601, GND	VR601	1.0 \pm 0.05V 
	REC/PB (Primary)	TP101 (L ch), GND TP102 (R ch), GND	T301	105 kHz \pm 3 kHz Use METAL tape. Short-circuit R708 and JP699, R707 and JP700
	REC/PB	Pin 13 of IC301, GND Pin 6 of IC301, GND	L301 L302	Minimum voltage Use METAL tape
	REC/PB (Primary)	TP201 (L ch), GND TP202 (R ch), GND	LC201, LC202	Minimum voltage Use METAL tape. INPUT VR. minimum
	REC/PB (Primary)	TP101 (L ch), GND TP102 (R ch), GND	VR301 VR302	35 mV Test tape is METAL blank tape. Short-circuit R708 and JP699, R707 and JP700
			VR305 VR306	20 mV Test tape is CrO ₂ blank tape. Short-circuit R708 and JP699, R707 and JP700
			VR303 VR304	15 mV Test tape is Normal blank tape. Short-circuit R708 and JP699, R707 and JP700
VEL knob mV in	REC/PB (Primary)	TP501 (L ch), GND TP502 (R ch), GND	VR201, VR202 VR351, VR352	560 mV Test tape is METAL tape. Adjust VR301 and VR302 so that the distortion becomes 0.9% ~ 1.2%
			VR305, VR306	560 mV Adjust VR305 and VR306 so that the distortion becomes 0.9% (CrO ₂).
			VR303, VR304	Adjust VR303 and VR304 so that the distortion becomes 0.8% (Normal).
TP501	REC/PB	OUTPUT jack	VR305, VR306 L201, L202 (VR301, VR302)	So that the record/playback frequency response is flat (at least within the range in Fig. b.) Test tape is CrO ₂ tape.
			VR301 VR302	So that the record/playback frequency response is flat (at least within the range in Fig. b.) Test tape is METAL tape.
			VR303, VR304 L201, L202 (VR301, VR302)	So that the record/playback frequency response is flat (at least within the range in Fig. b.) Test tape is Normal tape.
to GND	REC/PB	TP501 (L ch), GND TP502 (R ch), GND	VR201 VR202	560 mV Perform adjustment using CrO ₂ . Perform checking only for Normal and METAL tapes.
TP501	Hi-Speed Copy Play	OUTPUT jack	L203, L204	Load TCC-185C in SEC DECK and SCC-565 in PRI DECK and execute high-speed copying, then play the tape in the PRI DECK. Check that the frequency response of the 14 kHz signal is within \pm 3 dB of that of the 1 kHz signal. If this specification cannot be satisfied, adjust L203 and L204. After adjustment is confirmed, also use the SCC-502 and SCC-1360 tapes to check.
TP501	Hi-Speed Copy Play	OUTPUT jack	L203, L204	Load TCC-285C in SEC DECK and SCC-565 in PRI DECK and execute high-speed copying, then play the tape in the PRI DECK. Check that the frequency response of the 14 kHz signal is within \pm 3 dB of that of the 1 kHz signal. If this specification cannot be satisfied, adjust L203 and L204. After adjustment is confirmed, also use the SCC-502 and SCC-1360 tapes to check.
VEL knob B below	REC/PAUSE	PEAK LEVEL METER	VR401 VR402	Adjust so the -1 dB segments light.
jack. to GND	REC/PAUSE MPX filter ON	TP501 (L ch), GND TP502 (R ch), GND	LC501 LC502	Adjust for -0.3 dB at 15 kHz and > 35 dB at 19 kHz

**GENERAL UNIT
EXPLODED VIEW**





GENERAL UNIT PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
AA	A442-DC5500B	FRONT PANEL ASSEMBLY	166	1532-21001	WINDOW, CASS.LID
AB	A532-DC5500B	WINDOW ASSEMBLY, PRI	167	2216-7197	SHIELD PLATE
AD	A662-DC5500B	PUSH BUTTON ASSEMBLY	168	2114-87143	BUSHING (x6)
AE	A532-DC5500F	WINDOW ASSEMBLY, SEC	169	2240-7371	HOLDER (x4)
103	3112-15905	MECHA ASSEMBLY, PRI(REC/PLAY)	170	2222-7281	HEAT SINK (x2)
104	3112-15906	MECHA ASSEMBLY, SEC(PLAY ONLY)	171	2240-7050	HOLDER (x2)
131	1319-03301	LEG (x4)	172	2240-R0101	HOLDER (x5)
132	1751-19702	LABEL	173	2240-364	HOLDER
133	1414-16701	TOP COVER	174	2240-7387	HOLDER (x2)
134	1424-34201	CABINET BOTTOM	175	2240-7391	HOLDER
135	1424-34302	CABI BACK BK	176	2360-7022	BOSS, SPE (x4)
135	1424-34305	CABI BACK IB BB	177	2360-7063	BOSS, SPE
136	1751-22201	LABEL, WINDOW	178	2601-7199	SHAFT
137	1442-26802	PANEL, FRONT	179	2651-059	SPRING (x2)
138	1511-22101	PLATE, DISPLAY	180	2651-11212	SPRING (x2)
139	1512-07505	PLATE, CASS. LID (PRI)	181	2651-2101732	SPRING (x3)
140	1512-07502	PLATE, CASS. LID (SEC)	182	2651-2101735	SPRING (x4)
141	1514-23501	PLATE, MECHA (x2)	183	2652-105	LEAF SPRING (x4)
142	1532-20901	WINDOW, DISPLAY	184	2132-413	SPACER
143	1532-21001	WINDOW, CASS. LID	185	2672-7051	LEVER (x2)
144	1532-21101	WINDOW	186	2672-7052	LEVER (x2)
145	1612-07801	CASS. LID (x2)	187	2672-7053	LEVER (x2)
146	1632-20401	ROTARY KNOB (x3)	189	2692-015	DAMPER (x2)
147	1662-58401	PUSH BUTTON, POWER	191	2401-0216	WASHER, METAL (x2)
148	1662-65001	PUSH BUTTON, EJECT L	193	2320-044	SCREW, SPE+ (x6)
149	1662-65101	PUSH BUTTON, EJECT R	194	2340-7009	SCREW, SPE T+ (x8)
150	1662-65201	PUSH BUTTON, REC/PAUSE	196	2347-260527	SCREW, BND T+ (2.6x5mm)(x8)
151	1662-65301	PUSH BUTTON, HIGH SPEED COPY	197	2347-260626	SCREW, BND T+ (2.6x6mm)(x8)
152	1662-65401	PUSH BUTTON, TRANSPORT	198	2347-R0126122	SCREW, BND T+ (2.6x12mm)(x13)
153	1662-65501	PUSH BUTTON, CASS. L	200	2347-R0130062	SCREW, BND T+ (3x6mm)(x13)
154	1662-65801	PUSH BUTTON, CENTER	202	2347-R0130082	SCREW, BND T+ (3x8mm)(x4)
155	1662-65901	PUSH BUTTON, CASS. R	203	2347-R0130082	SCREW, BND T+ (3x8mm)(x17)
156	1662-66301	PUSH BUTTON, REC MUTE	205	2347-R0130084	SCREW, BND T+ (3x8mm)(x10)
157	1732-08201	INDICATOR	206	2347-R0130122	SCREW, BND T+ (3x12mm)(x5)
158	1741-01601	ORNAMENT (x2)	208	2347-R0140062	SCREW, BND T+ (4x6mm)(x4)
159	1742-08201	ORNAMENT, CASS. R	209	2347-R0140064	SCREW, BND T+ (4x6mm)(x4)
160	1756-CSA	LABEL BK	▲ P1	4161-71151	CORD W/PLUG BK
161	2219-8293	METAL FITTG, CENTER PCB	▲ P1	4161-7256	CORD W/PLUG IB
162	2219-8323	METAL FITTG, DOLBY PCB (x2)	▲ P1	4161-04100	CORD W/PLUG BB
163	2219-8324	METAL FITTG, VR HOLD			
164	2219-8325	METAL FITTG, MECHA R (x2)			
165	2219-8326	METAL FITTG, MECHA L (x2)			

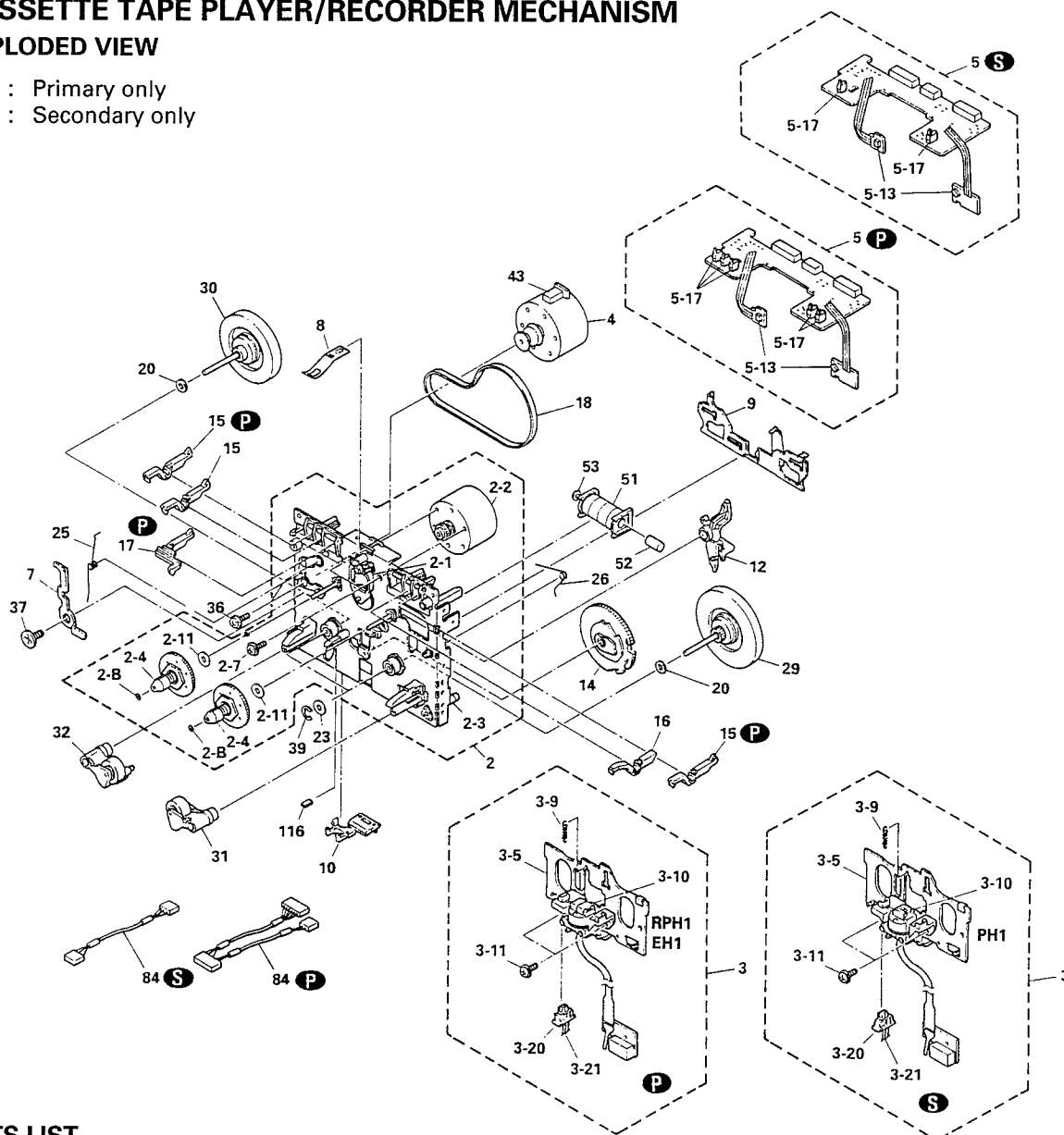
NOTE:

▲ SAFETY RELATED COMPONENT. USE ONLY EXACT REPLACEMENT PART AS SPECIFIED.

CASSETTE TAPE PLAYER/RECORDER MECHANISM

EXPLODED VIEW

P : Primary only
S : Secondary only



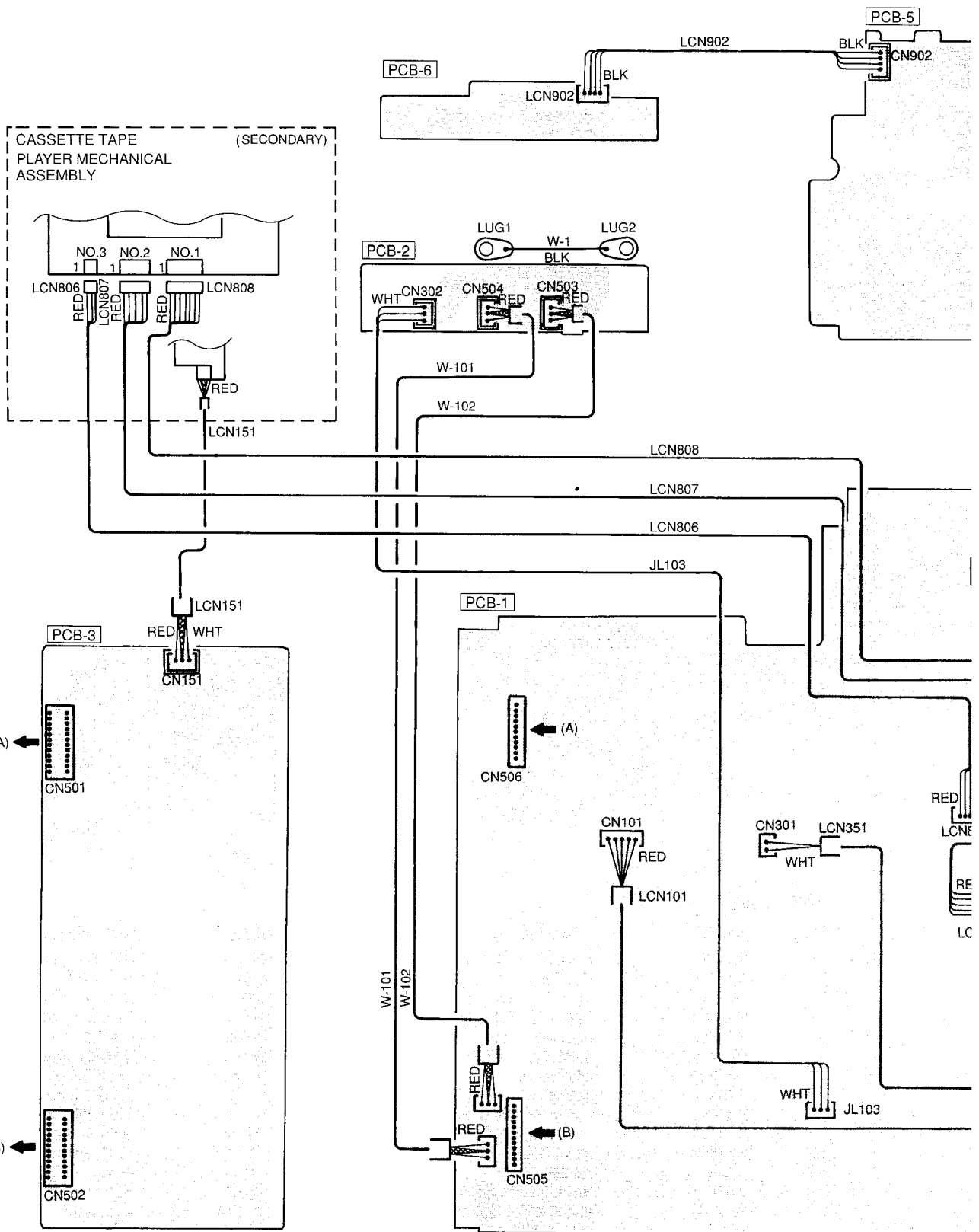
PARTS LIST

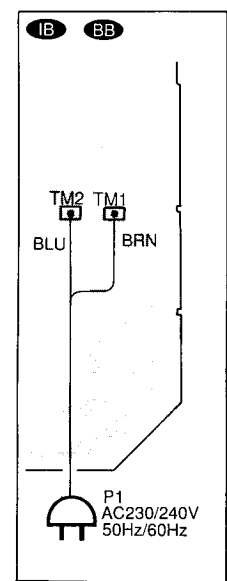
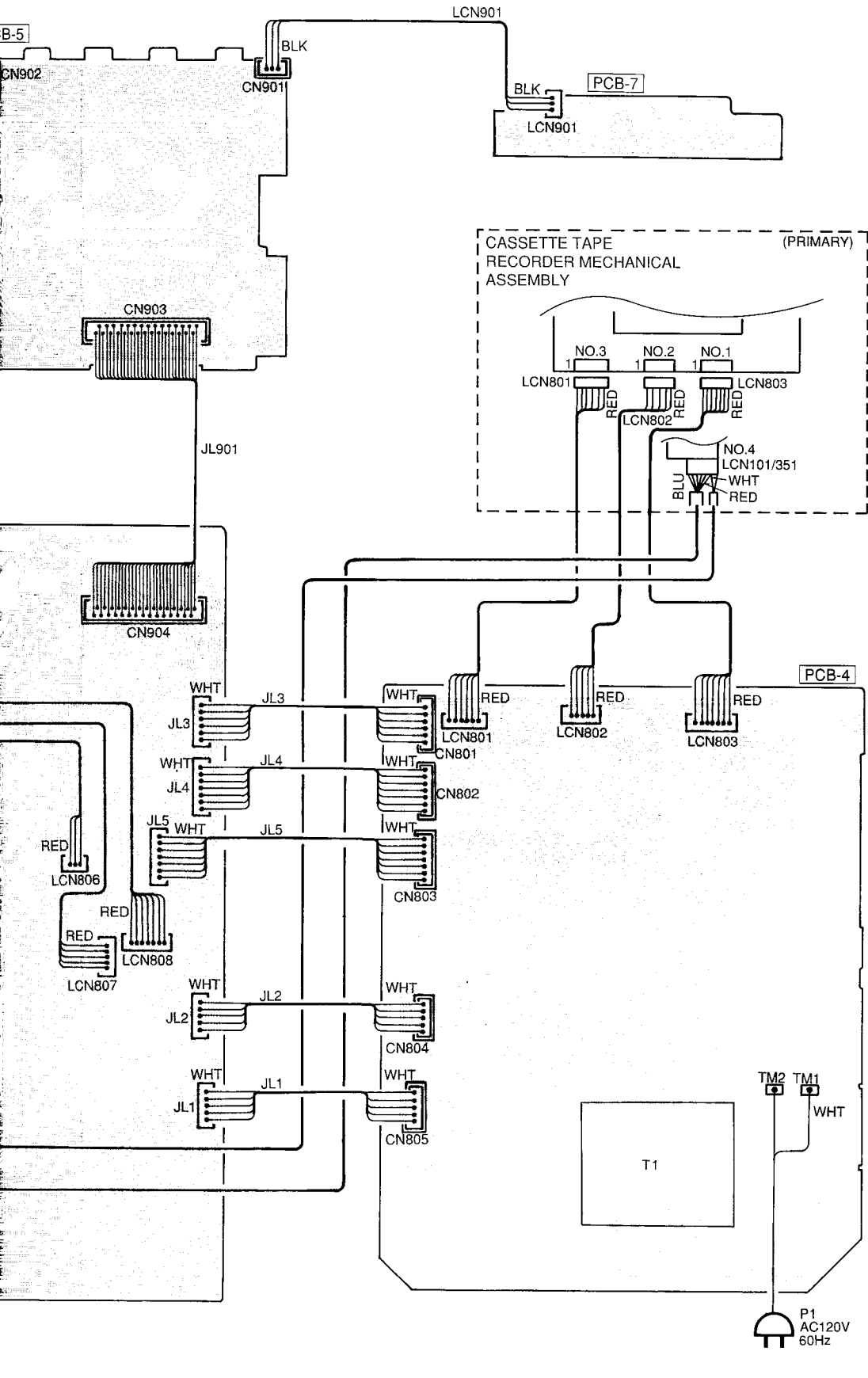
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
2	F511-496	XPORT CHASSIS (EXCL. HEAD)	10	FD45H-15	LEAD HOLDER
2-1	F517-049	IDLER BLK	12	FD45G-12	PLAY ARM
2-2	F564-280	MTR REEL BLK	14	FD45B-15	CAM GEAR (3R)
2-3	F612-168	CHASSIS BASE BLK	15	FD44T-14	SWITCH ARM, REC
2-4	F623-037	REEL BASE BLK	16	FD44Y-12	SWITCH ARM(R), PACK
2-7	FG156-11A	SCREW 2.6x6.4 ZN	17	FD44V-12	SWITCH ARM(L), METAL P
2-8	FJ111-17	WASHER 1.7x0.25	18	FF17G-21, 31	MAIN BELT
2-11	UJ12V-11	WASHER 2.1x0.25T	20	FJ111-30	WASHER 2.6x0.25
3	F513-538	PLATE HD BLK P	23	FJ111-14	WASHER 2.6x0.5
3	F513-583	PLATE HD BLK S	25	FK28M-15	EJECT PREVENTION SPRING (L)
3-5	FC52E-36	HEAD BASE	26	FK28R-11	SLIDE SPRING
3-9	FK26N-14	HB SP	29	FR23B-11	FLYWHEEL ASS'Y (ZDC)
3-10	FU18D-61	HADKH5725B P R/P HEAD	30	FR22K-13	FLYWHEEL ASS'Y (RVS)
3-10	FU18L-61	HADKH2707B S P HEAD	31	FR20L-21A	PINCH ROLLER ASS'Y(R)
3-11	UG19D-11	SCREW TT 2.0x5 ZN	32	FR20M-22	PINCH ROLLER ASS'Y(L)
3-20	AZ13P-00	SPI-320BC	36	FG114-14	SCREW 2.6x5 ZN
3-21	WG50M-03A	QS LEAD WIRE	37	UG15S-11A	SCREW
4	F525-256	MTR MAIN BLK	39	UG13U-15	E RING
5	F567-404	PCB CONTROL BLK P	43	FF17C-12	HOLDER CUSHION(L)
5	F567-405	PCB CONTROL BLK S	51	F765-263	SOLENOID BLK
5-1	F743-065	PCB BASE BLK	52	FL39H-12A	FIXED BAR
5-13	AZ15S-00	GP2S04B	53	FL39K-12	PLANGER
5-17	UE16E-11	PUSH SWITCH	84	WH52P-66	WIRE CONNECTOR (R/P) P
7	FC39L-70	EJECT PREVENTION ARM(L)	84	WH52N-04A	WIRE CONNECTOR (PB) S
8	FC52H-12	SPRING CASSETTE	116	UT11R-11	REFLECTION PLATE
9	FC52F-15	SLIDE PLATE			

WIRING DIAGRAM

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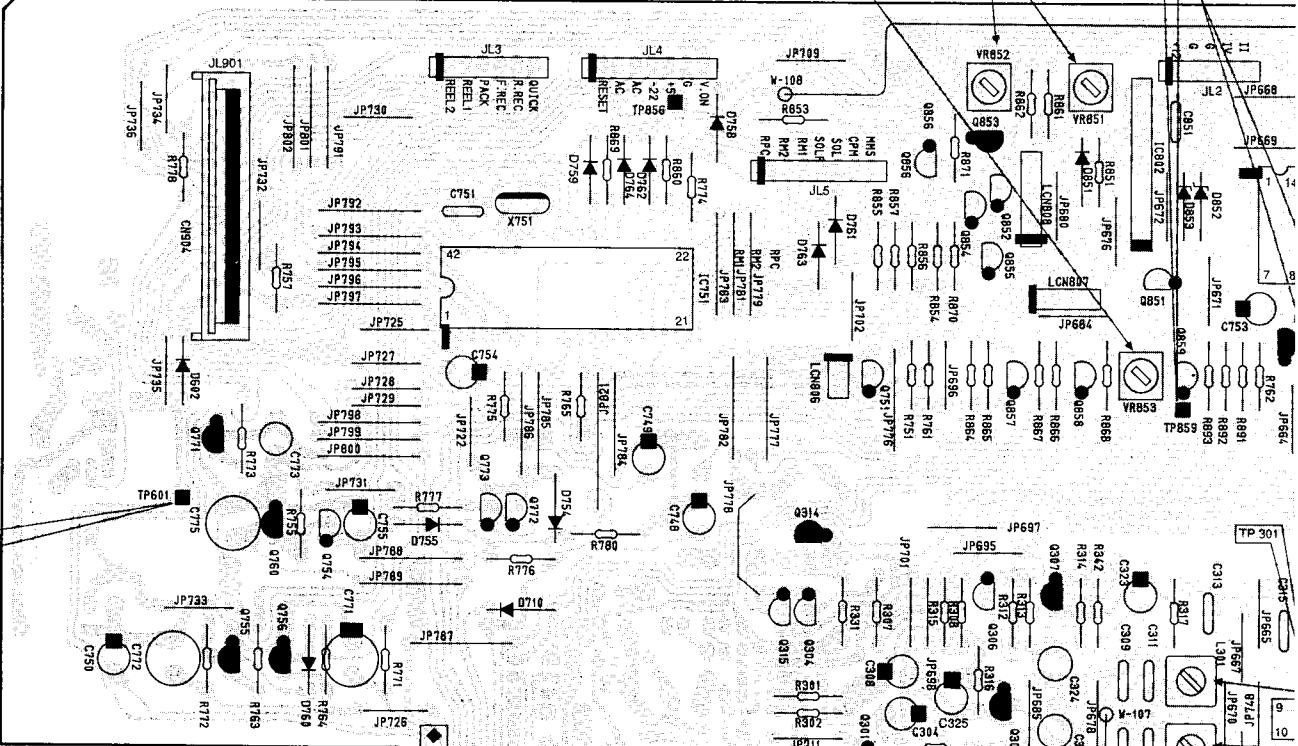


WIRE COLOR ABBREVIATIONS

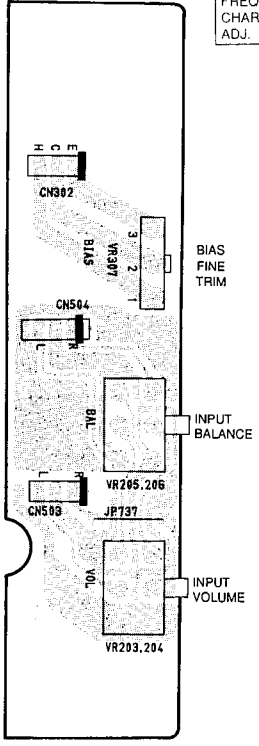
REC : Red	YEL : Yellow
ORG : Orange	PUP : Purple
BLU : Blue	PIK : Pink
WHT : White	BRN : Brown
BLK : Black	

P. C. BOARD (1)

PCB-1 Main P. C. Board



PCB-2 VR P. C. Board



BIAS FREQUENCY
PRIMARY PLAYBACK FREQUENCY CHARACTERISTIC ADJ.

PRIMARY PLAYBACK OUTPUT LEVEL (Rch) ADJ.

PRIMARY PLAYBACK OUTPUT LEVEL (Lch) ADJ.

PRIMARY PLAYBACK FREQUENCY CHARACTERISTIC ADJ.

BLANK SEARCH

MUSIC SEARCH

BIAS TRAP ADJ.

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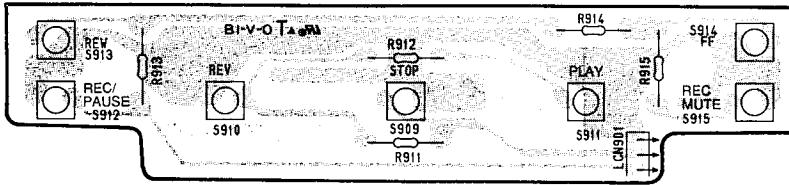
A B C D E

A B C D E

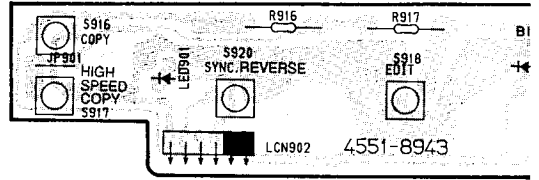
P. C. BOARD (2)

1

PCB-7 Cont SW-L P. C. Board

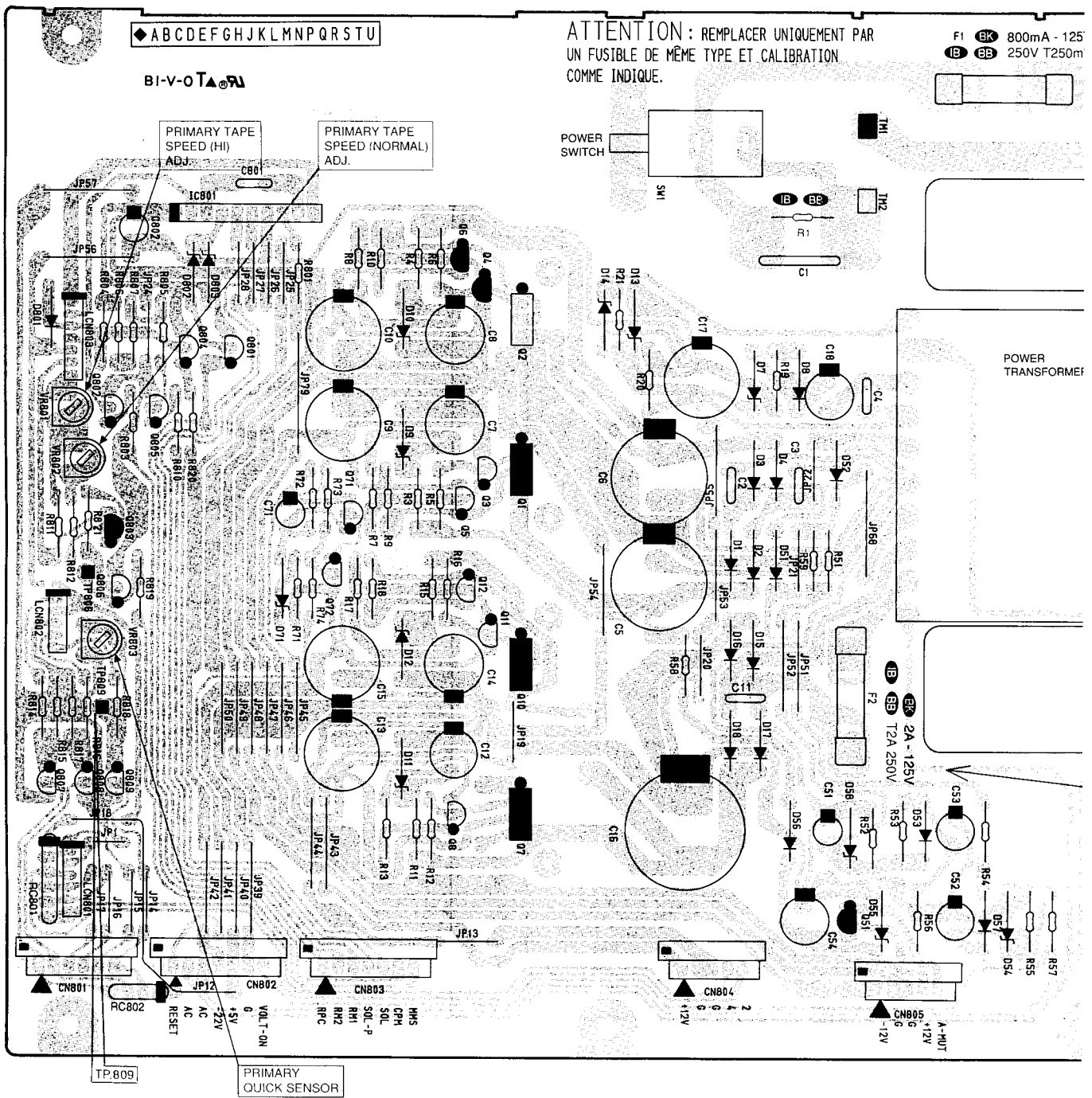


PCB-6 Cont SW-R P. C. Board



2

PCB-4 Power P. C. Board



ATTENTION : REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MÊME TYPE ET CALIBRATION COMME INDIQUÉ.

F1 **8K** 800mA - 125
1B **8B** 250V T250m

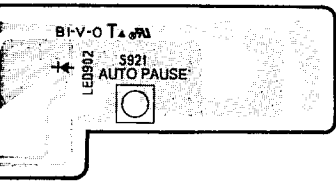
3

4

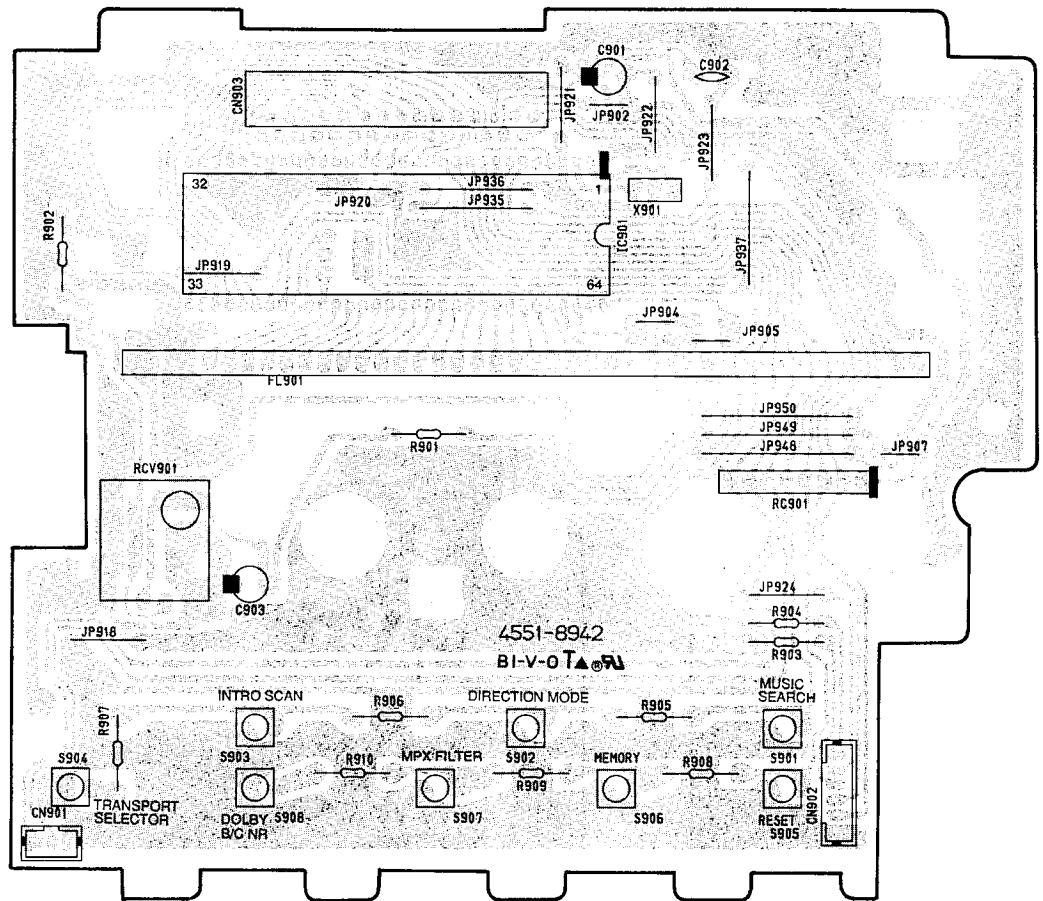
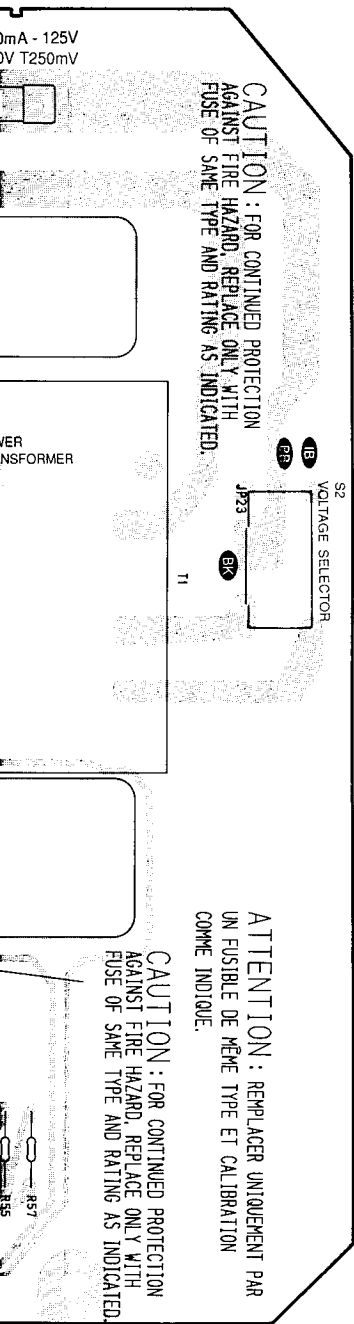
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PCB-5 Front P. C. Board



ELECTRICAL PARTS LIST

Ser. No.	Ref.No.	Part No.	Description	Ser. No.	Ref.No.	Part No.	Description
PCB-1 MAIN P.C.BOARD							
CAPACITORS							
323	C101	5353-101534	CAP, MCA 100P	538	C315	5354-104593	CAP, MYL .1μ
323	C102	5353-101534	CAP, MCA 100P	538	C316	5354-104593	CAP, MYL .1μ
315	C103	5345-106C0951	CAP, MINI ELE 10μ/16V	543	C317	5359-S010J103	CAP, PPP .01μ
315	C104	5345-106C0951	CAP, MINI ELE 10μ/16V	543	C318	5359-S010J103	CAP, PPP .01μ
316	C105	5345-227B0952	CAP, MINI ELE 220μ/10V	544	C319	5359-S010J223	CAP, PPP .022μ
316	C106	5345-227B0952	CAP, MINI ELE 220μ/10V	544	C320	5359-S010J223	CAP, PPP .022μ
324	C107	5359-6825851	CAP, PPP 6800P	533	C321	5345-106E041	CAP, MINI ELE 10μ/35V
324	C108	5359-6825851	CAP, PPP 6800P	533	C322	5345-106E041	CAP, MINI ELE 10μ/35V
324	C109	5359-6825851	CAP, PPP 6800P	533	C323	5345-106E041	CAP, MINI ELE 10μ/35V
324	C110	5359-6825851	CAP, PPP 6800P	531	C324	5342-106D041	CAP, ELE BP 10μ/25V
315	C111	5345-106C0951	CAP, MINI ELE 10μ/16V	535	C325	5345-107C041	CAP, MINI ELE 100μ/16V
315	C112	5345-106C0951	CAP, MINI ELE 10μ/16V	534	C330	5345-475F0951	CAP, MINI ELE 4.7μ/50V
325	C113	5359-S010J123	CAP, PPP .012μ	736	C403	5345-476D041	CAP, MINI ELE 47μ/25V
325	C114	5359-S010J123	CAP, PPP .012μ	736	C404	5345-476D041	CAP, MINI ELE 47μ/25V
326	C115	5359-S010J272	CAP, PPP 2700P	735	C405	5345-475F041	CAP, MINI ELE 4.7μ/50V
326	C116	5359-S010J272	CAP, PPP 2700P	735	C406	5345-475F041	CAP, MINI ELE 4.7μ/50V
318	C117	5345-477C041	CAP, MINI ELE 470μ/16V	735	C407	5345-475F041	CAP, MINI ELE 4.7μ/50V
317	C118	5345-336C041	CAP, MINI ELE 33μ/16V	735	C408	5345-475F041	CAP, MINI ELE 4.7μ/50V
440	C201	5359-S010J152	CAP, PPP 1500P	736	C409	5345-476D041	CAP, MINI ELE 47μ/25V
440	C202	5359-S010J152	CAP, PPP 1500P	959	C601	5359-S010J103	CAP, PPP .01μ
441	C203	5359-S010J821	CAP, PPP 820P	956	C602	5359-S010K101	CAP, PPP 100P
441	C204	5359-S010J821	CAP, PPP 820P	958	C603	5359-S010J223	CAP, PPP .022μ
442	C205	5359-S010J682	CAP, PPP 6800P	952	C604	5345-225F041	CAP, MINI ELE 2.2μ/50V
442	C206	5359-S010J682	CAP, PPP 6800P	956	C605	5359-S010K101	CAP, PPP 100P
439	C207	5359-S010J472	CAP, PPP 4700P	951	C607	5345-476D041	CAP, MINI ELE 47μ/25V
439	C208	5359-S010J472	CAP, PPP 4700P	951	C608	5345-476D041	CAP, MINI ELE 47μ/25V
443	C209	5359-S010J472	CAP, PPP 4700P	955	C609	5345-224F0951	CAP, MINI ELE .22μ/50V
443	C210	5359-S010J472	CAP, PPP 4700P	681	C701	5345-106E041	CAP, MINI ELE 10μ/35V
444	C211	5359-S010J152	CAP, PPP 1500P	684	C747	5345-107C041	CAP, MINI ELE 100μ/16V
444	C212	5359-S010J152	CAP, PPP 1500P	687	C748	5345-226D041	CAP, MINI ELE 22μ/25V
445	C213	5359-S010J222	CAP, PPP 2200P	681	C749	5345-106E041	CAP, MINI ELE 10μ/35V
445	C214	5359-S010J222	CAP, PPP 2200P	680	C750	5345-106C041	CAP, MINI ELE 10μ/35V
446	C215	5359-S010J222	CAP, PPP 2200P	688	C751	5359-S010J103	CAP, PPP .01μ
446	C216	5359-S010J222	CAP, PPP 2200P	681	C753	5345-106E041	CAP, MINI ELE 10μ/35V
447	C217	5359-S010J471	CAP, PPP 470P	685	C754	5345-106C0951	CAP, MINI ELE 10μ/16V
447	C218	5359-S010J471	CAP, PPP 470P	689	C755	5345-227B041	CAP, MINI ELE 220μ/10V
433	C219	5345-105F0951	CAP, MINI ELE 1μ/50V	686	C761	5345-476D041	CAP, MINI ELE 47μ/25V
433	C220	5345-105F0951	CAP, MINI ELE 1μ/50V	684	C762	5345-107C041	CAP, MINI ELE 100μ/16V
451	C223	5354-124593	CAP, MYL .12μ	684	C763	5345-107C041	CAP, MINI ELE 100μ/16V
451	C224	5354-124593	CAP, MYL .12μ	684	C764	5345-107C041	CAP, MINI ELE 100μ/16V
448	C225	5359-S010J103	CAP, PPP .01μ	681	C771	5345-106E041	CAP, MINI ELE 10μ/35V
448	C226	5359-S010J103	CAP, PPP .01μ	683	C772	5342-476C041	CAP, ELE BP 47μ/16V
449	C227	5359-S010J222	CAP, PPP 2200P	682	C773	5342-106D041	CAP, ELE BP 10μ/25V
449	C228	5359-S010J222	CAP, PPP 2200P	682	C775	5342-106D041	CAP, ELE BP 10μ/25V
434	C229	5345-225F0951	CAP, MINI ELE 2.2μ/50V	916	C851	5359-S010J103	CAP, PPP .01μ
434	C230	5345-225F0951	CAP, MINI ELE 2.2μ/50V	RESISTORS			
438	C231	5361-4710423	CAP, CER 470P	331	R101	5135-470522	RES, CBN 1/2P 47
438	C232	5361-4710423	CAP, CER 470P	331	R102	5135-470522	RES, CBN 1/2P 47
436	C237	5345-227C041	CAP, MINI ELE 220μ/16V	333	R105	5174-S010F223	RES, MTL 1/4P 22K
436	C238	5345-227C041	CAP, MINI ELE 220μ/16V	333	R106	5174-S010F223	RES, MTL 1/4P 22K
450	C241	5359-S010J681	CAP, PPP 680P	334	R107	5174-S010F331	RES, MTL 1/4P 330
450	C242	5359-S010J681	CAP, PPP 680P	334	R108	5174-S010F331	RES, MTL 1/4P 330
445	C243	5359-S010J222	CAP, PPP 2200P	335	R109	5135-224522	RES, CBN 1/2P 220K
445	C244	5359-S010J222	CAP, PPP 2200P	335	R110	5135-224522	RES, CBN 1/2P 220K
444	C245	5359-S010J152	CAP, PPP 1500P	336	R111	5135-332522	RES, CBN 1/2P 3.3K
444	C246	5359-S010J152	CAP, PPP 1500P	336	R112	5135-332522	RES, CBN 1/2P 3.3K
445	C247	5359-S010J222	CAP, PPP 2200P	338	R113	5135-562522	RES, CBN 1/2P 5.6K
445	C248	5359-S010J222	CAP, PPP 2200P	338	R114	5135-562522	RES, CBN 1/2P 5.6K
537	C301	5354-S070K103	CAP, MYL .01μ	331	R115	5135-470522	RES, CBN 1/2P 47
547	C302	5353-070534	CAP, MCA 7P	331	R116	5135-470522	RES, CBN 1/2P 47
532	C303	5342-107D041	CAP, ELE BP 100μ/25V	340	R117	5135-681522	RES, CBN 1/2P 680
531	C304	5342-106D041	CAP, ELE BP 10μ/25V	340	R118	5135-681522	RES, CBN 1/2P 680
541	C305	5359-S010J332	CAP, PPP 3300P	341	R119	5135-684522	RES, CBN 1/2P 680K
541	C306	5359-S010J332	CAP, PPP 3300P	341	R120	5135-684522	RES, CBN 1/2P 680K
542	C307	5359-S010J183	CAP, PPP .018μ	342	R121	5135-101522	RES, CBN 1/2P 100
533	C308	5345-106E041	CAP, MINI ELE 10μ/35V	342	R122	5135-101522	RES, CBN 1/2P 100
549	C309	5361-1010423	CAP, CER 100P	343	R123	5135-102522	RES, CBN 1/2P 1K
549	C310	5361-1010423	CAP, CER 100P	343	R124	5135-102522	RES, CBN 1/2P 1K
550	C311	5361-4710423	CAP, CER 470P	344	R125	5135-822522	RES, CBN 1/2P 8.2K
550	C312	5361-4710423	CAP, CER 470P	344	R126	5135-822522	RES, CBN 1/2P 8.2K
545	C313	5359-S010J561	CAP, PPP 560P	346	R129	5135-101522	RES, CBN 1/2P 100
545	C314	5359-S010J561	CAP, PPP 560P	346	R130	5135-101522	RES, CBN 1/2P 100
				348	R133	5135-103522	RES, CBN 1/2P 10K
				348	R134	5135-103522	RES, CBN 1/2P 10K

<u>Ser. No.</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ser. No.</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
349	R135	5135-392522	RES, CBN 1/2P 3.9K	558	R312	5135-472522	RES, CBN 1/2P 4.7K
349	R136	5135-392522	RES, CBN 1/2P 3.9K	559	R313	5135-822522	RES, CBN 1/2P 8.2K
351	R139	5135-183522	RES, CBN 1/2P 18K	558	R314	5135-472522	RES, CBN 1/2P 4.7K
351	R140	5135-183522	RES, CBN 1/2P 18K	556	R315	5135-820522	RES, CBN 1/2P 82
352	R141	5135-104522	RES, CBN 1/2P 100K	555	R316	5135-103522	RES, CBN 1/2P 10K
352	R142	5135-104522	RES, CBN 1/2P 100K	557	R317	5135-154522	RES, CBN 1/2P 150K
345	R148	5135-4R7522	RES, CBN 1/2P 4.7	557	R318	5135-154522	RES, CBN 1/2P 150K
343	R149	5135-102522	RES, CBN 1/2P 1K	560	R319	5135-333522	RES, CBN 1/2P 33K
453	R201	5135-152522	RES, CBN 1/2P 1.5K	560	R320	5135-333522	RES, CBN 1/2P 33K
453	R202	5135-152522	RES, CBN 1/2P 1.5K	563	R321	5135-102522	RES, CBN 1/2P 1K
456	R203	5135-222522	RES, CBN 1/2P 2.2K	563	R322	5135-102522	RES, CBN 1/2P 1K
456	R204	5135-222522	RES, CBN 1/2P 2.2K	561	R323	5135-121522	RES, CBN 1/2P 120
457	R205	5135-104522	RES, CBN 1/2P 100K	561	R324	5135-121522	RES, CBN 1/2P 120
457	R206	5135-104522	RES, CBN 1/2P 100K	562	R325	5135-561522	RES, CBN 1/2P 560
463	R207	5135-223522	RES, CBN 1/2P 22K	562	R326	5135-561522	RES, CBN 1/2P 560
463	R208	5135-223522	RES, CBN 1/2P 22K	564	R328	5135-471522	RES, CBN 1/2P 470
464	R209	5135-103522	RES, CBN 1/2P 10K	565	R329	5135-123522	RES, CBN 1/2P 12K
464	R210	5135-103522	RES, CBN 1/2P 10K	565	R330	5135-123522	RES, CBN 1/2P 12K
465	R211	5135-183522	RES, CBN 1/2P 18K	566	R331	5135-473522	RES, CBN 1/2P 47K
465	R212	5135-183522	RES, CBN 1/2P 18K	564	R332	5135-471522	RES, CBN 1/2P 470
466	R213	5135-123522	RES, CBN 1/2P 12K	565	R335	5135-123522	RES, CBN 1/2P 12K
466	R214	5135-123522	RES, CBN 1/2P 12K	559	R342	5135-822522	RES, CBN 1/2P 8.2K
472	R215	5135-103522	RES, CBN 1/2P 10K	567	R343	5135-104522	RES, CBN 1/2P 100K
472	R216	5135-103522	RES, CBN 1/2P 10K	740	R401	5135-102522	RES, CBN 1/2P 1K
467	R217	5135-682522	RES, CBN 1/2P 6.8K	740	R402	5135-102522	RES, CBN 1/2P 1K
467	R218	5135-682522	RES, CBN 1/2P 6.8K	741	R403	5135-222522	RES, CBN 1/2P 2.2K
469	R219	5135-223522	RES, CBN 1/2P 22K	741	R404	5135-222522	RES, CBN 1/2P 2.2K
469	R220	5135-223522	RES, CBN 1/2P 22K	742	R405	5135-102522	RES, CBN 1/2P 1K
470	R221	5135-104522	RES, CBN 1/2P 100K	742	R406	5135-102522	RES, CBN 1/2P 1K
470	R222	5135-104522	RES, CBN 1/2P 100K	743	R407	5135-331522	RES, CBN 1/2P 330
471	R223	5135-333522	RES, CBN 1/2P 33K	743	R408	5135-331522	RES, CBN 1/2P 330
471	R224	5135-333522	RES, CBN 1/2P 33K	744	R409	5135-334522	RES, CBN 1/2P 330K
469	R225	5135-223522	RES, CBN 1/2P 22K	744	R410	5135-334522	RES, CBN 1/2P 330K
469	R226	5135-223522	RES, CBN 1/2P 22K	743	R411	5135-331522	RES, CBN 1/2P 330
473	R227	5135-154522	RES, CBN 1/2P 150K	745	R415	5135-103522	RES, CBN 1/2P 10K
473	R228	5135-154522	RES, CBN 1/2P 150K	745	R416	5135-103522	RES, CBN 1/2P 10K
474	R229	5135-153522	RES, CBN 1/2P 15K	746	R417	5135-104522	RES, CBN 1/2P 100K
474	R230	5135-153522	RES, CBN 1/2P 15K	746	R418	5135-104522	RES, CBN 1/2P 100K
457	R231	5135-104522	RES, CBN 1/2P 100K	693	R523	5135-222522	RES, CBN 1/2P 2.2K
457	R232	5135-104522	RES, CBN 1/2P 100K	693	R524	5135-222522	RES, CBN 1/2P 2.2K
475	R233	5135-273522	RES, CBN 1/2P 27K	966	R601	5135-223522	RES, CBN 1/2P 22K
475	R234	5135-273522	RES, CBN 1/2P 27K	963	R602	5135-104522	RES, CBN 1/2P 100K
468	R235	5135-563522	RES, CBN 1/2P 56K	965	R603	5135-331522	RES, CBN 1/2P 330
468	R236	5135-563522	RES, CBN 1/2P 56K	963	R604	5135-104522	RES, CBN 1/2P 100K
456	R237	5135-222522	RES, CBN 1/2P 2.2K	962	R605	5135-822522	RES, CBN 1/2P 8.2K
456	R238	5135-222522	RES, CBN 1/2P 2.2K	964	R606	5135-102522	RES, CBN 1/2P 1K
476	R239	5135-121522	RES, CBN 1/2P 120	967	R607	5135-102522	RES, CBN 1/2P 1K
476	R240	5135-121522	RES, CBN 1/2P 120	966	R608	5135-223522	RES, CBN 1/2P 22K
462	R241	5135-561522	RES, CBN 1/2P 560	968	R609	5135-103522	RES, CBN 1/2P 10K
462	R242	5135-561522	RES, CBN 1/2P 560	963	R610	5135-104522	RES, CBN 1/2P 100K
464	R243	5135-103522	RES, CBN 1/2P 10K	965	R613	5135-331522	RES, CBN 1/2P 330
464	R244	5135-103522	RES, CBN 1/2P 10K	965	R614	5135-331522	RES, CBN 1/2P 330
464	R245	5135-103522	RES, CBN 1/2P 10K	691	R701	5135-103522	RES, CBN 1/2P 10K
464	R246	5135-103522	RES, CBN 1/2P 10K	691	R702	5135-103522	RES, CBN 1/2P 10K
464	R247	5135-103522	RES, CBN 1/2P 10K	692	R703	5135-392522	RES, CBN 1/2P 3.9K
464	R248	5135-103522	RES, CBN 1/2P 10K	692	R704	5135-392522	RES, CBN 1/2P 3.9K
456	R249	5135-222522	RES, CBN 1/2P 2.2K	691	R705	5135-103522	RES, CBN 1/2P 10K
456	R250	5135-222522	RES, CBN 1/2P 2.2K	691	R706	5135-103522	RES, CBN 1/2P 10K
477	R251	5135-331522	RES, CBN 1/2P 330	691	R707	5135-103522	RES, CBN 1/2P 10K
477	R252	5135-331522	RES, CBN 1/2P 330	691	R708	5135-103522	RES, CBN 1/2P 10K
478	R253	5135-472522	RES, CBN 1/2P 4.7K	694	R711	5135-222522	RES, CBN 1/2P 2.2K
478	R254	5135-472522	RES, CBN 1/2P 4.7K	694	R712	5135-222522	RES, CBN 1/2P 2.2K
480	R255	5135-183522	RES, CBN 1/2P 18K	694	R713	5135-222522	RES, CBN 1/2P 2.2K
480	R256	5135-183522	RES, CBN 1/2P 18K	695	R714	5135-103522	RES, CBN 1/2P 10K
479	R259	5135-154522	RES, CBN 1/2P 150K	695	R715	5135-103522	RES, CBN 1/2P 10K
479	R260	5135-154522	RES, CBN 1/2P 150K	694	R727	5135-222522	RES, CBN 1/2P 2.2K
466	R261	5135-123522	RES, CBN 1/2P 12K	694	R728	5135-222522	RES, CBN 1/2P 2.2K
466	R262	5135-123522	RES, CBN 1/2P 12K	701	R740	5135-473522	RES, CBN 1/2P 47K
553	R301	5135-4R7522	RES, CBN 1/2P 4.7	697	R747	5135-102522	RES, CBN 1/2P 1K
553	R302	5135-4R7522	RES, CBN 1/2P 4.7	698	R751	5135-223522	RES, CBN 1/2P 22K
554	R303	5135-224522	RES, CBN 1/2P 220K	699	R755	5135-472522	RES, CBN 1/2P 4.7K
554	R304	5135-224522	RES, CBN 1/2P 220K	698	R757	5135-223522	RES, CBN 1/2P 22K
556	R305	5135-820522	RES, CBN 1/2P 82	701	R761	5135-473522	RES, CBN 1/2P 47K
555	R307	5135-103522	RES, CBN 1/2P 10K	701	R762	5135-473522	RES, CBN 1/2P 47K
556	R308	5135-820522	RES, CBN 1/2P 82	697	R763	5135-102522	RES, CBN 1/2P 1K

Ser. No.	Ref.No.	Part No.	Description	Ser. No.	Ref.No.	Part No.	Description				
675	D760	5631-1S2473	DIODE, DET	933	X751	5693-CST4MGW	OSC, CER				
675	D761	5631-1S2473	DIODE, DET	PCB-2 VR P.C. BOARD							
675	D762	5631-1S2473	DIODE, DET								
675	D763	5631-1S2473	DIODE, DET								
675	D764	5631-1S2473	DIODE, DET								
913	D851	5632-S5566B	DIODE, RECT								
912	D852	5635-HZ5C2	DIODE, ZENER								
911	D853	5635-HZ7C3L	DIODE, ZENER								
COILS								CONTROLS			
309	L101	5995-S160J472	COIL W/CORE					758	VR203/ 204	5113-S1102503	RES, V CBN 16 50K
309	L102	5995-S160J472	COIL W/CORE					760	VR205/ 206	5113-S1103104	RES, V CBN 16 100K
428	L201	5932-11504	COIL CASE, 7	762	VR307	5113-S1104502	RES, V CBN 16 5K				
428	L202	5932-11504	COIL CASE, 7	MISCELLANEOUS							
427	L203	5932-11501	COIL CASE, 7	799	CN302	4443-030185	CONNECTOR				
427	L204	5932-11501	COIL CASE, 7	799	CN503	4443-030185	CONNECTOR				
522	L301	5932-11401	COIL CASE, 7	799	CN504	4443-030185	CONNECTOR				
522	L302	5932-11401	COIL CASE, 7	815	JL103	4242-R0503301	JUMPER LEAD				
523	T301	5923-10701	OSC COIL, 10	PCB-3 DOLBY P.C. BOARD							
CONTROLS				CAPACITORS							
311	VR101	5101-S0801203	RES, SEMI FIX 20K	383	C147	5353-101534	CAP, MCA 100P				
311	VR102	5101-S0801203	RES, SEMI FIX 20K	383	C148	5353-101534	CAP, MCA 100P				
312	VR103	5101-S0801501	RES, SEMI FIX 500	375	C153	5345-106C0951	CAP, MINI ELE 10μ/16V				
312	VR104	5101-S0801501	RES, SEMI FIX 500	375	C154	5345-106C0951	CAP, MINI ELE 10μ/16V				
430	VR201	5101-S0801202	RES, SEMI FIX 2K	376	C155	5345-227B0952	CAP, MINI ELE 220μ/10V				
430	VR202	5101-S0801202	RES, SEMI FIX 2K	376	C156	5345-227B0952	CAP, MINI ELE 220μ/10V				
525	VR301	5101-S0801203	RES, SEMI FIX 20K	384	C157	5359-8225851	CAP, PPP 8200P				
525	VR302	5101-S0801203	RES, SEMI FIX 20K	384	C158	5359-8225851	CAP, PPP 8200P				
526	VR303	5101-S0801202	RES, SEMI FIX 2K	386	C159	5359-8225851	CAP, PPP 8200P				
526	VR304	5101-S0801202	RES, SEMI FIX 2K	386	C160	5359-8225851	CAP, PPP 8200P				
527	VR305	5101-S0801502	RES, SEMI FIX 5K	375	C161	5345-106C0951	CAP, MINI ELE 10μ/16V				
527	VR306	5101-S0801502	RES, SEMI FIX 5K	375	C162	5345-106C0951	CAP, MINI ELE 10μ/16V				
730	VR401	5101-S0801203	RES, SEMI FIX 20K	387	C163	5359-S010J562	CAP, PPP 5600P				
730	VR402	5101-S0801203	RES, SEMI FIX 20K	387	C164	5359-S010J562	CAP, PPP 5600P				
947	VR601	5101-S0801104	RES, SEMI FIX 100K	385	C165	5359-S010J682	CAP, PPP 6800P				
947	VR602	5101-S0801104	RES, SEMI FIX 100K	385	C166	5359-S010J682	CAP, PPP 6800P				
918	VR851	5101-S0801103	RES, SEMI FIX 10K	388	C167	5359-S010J682	CAP, PPP 6800P				
918	VR852	5101-S0801103	RES, SEMI FIX 10K	388	C168	5359-S010J682	CAP, PPP 6800P				
919	VR853	5101-S0801502	RES, SEMI FIX 5K	389	C169	5359-S010J272	CAP, PPP 2700P				
MISCELLANEOUS				389	C170	5359-S010J272	CAP, PPP 2700P				
790	CN101	4443-03201005	CONNECTOR	378	C173	5345-477C041	CAP, MINI ELE 470μ/16V				
431	CN201	4443-030185	CONNECTOR	377	C174	5345-336C041	CAP, MINI ELE 33μ/16V				
431	CN202	4443-030185	CONNECTOR	639	C501	5345-106C0951	CAP, MINI ELE 10μ/16V				
791	CN301	4443-03201002	CONNECTOR	639	C502	5345-106C0951	CAP, MINI ELE 10μ/16V				
825	CN505	4443-01801012	CONNECTOR	639	C503	5345-106C0951	CAP, MINI ELE 10μ/16V				
826	CN506	4443-01801012	CONNECTOR	639	C504	5345-106C0951	CAP, MINI ELE 10μ/16V				
794	CN904	4443-05501030	CONNECTOR	640	C505	5345-106C0951	CAP, MINI ELE 10μ/16V				
779	△ J1	4484-46	PIN JACK, 4P	640	C506	5345-106C0951	CAP, MINI ELE 10μ/16V				
780	J2	4451-00184	JACK, 1P	645	C507	5359-S010J222	CAP, PPP 2200P				
780	J3	4451-00184	JACK, 1P	645	C508	5359-S010J222	CAP, PPP 2200P				
811	JL1	4242-R0505101	JUMPER LEAD	645	C509	5359-S010J222	CAP, PPP 2200P				
811	JL2	4242-R0505101	JUMPER LEAD	645	C510	5359-S010J222	CAP, PPP 2200P				
812	JL3	4242-R0506101	JUMPER LEAD	643	C511	5354-564593	CAP, MYL .56μ				
813	JL4	4242-R0507101	JUMPER LEAD	643	C512	5354-564593	CAP, MYL .56μ				
813	JL5	4242-R0507101	JUMPER LEAD	644	C513	5354-334593	CAP, MYL .33μ				
814	JL901	4242-S0330151	JUMPER LEAD	644	C514	5354-334593	CAP, MYL .33μ				
429	LC201	5214-13801	LC COMPOSITE	640	C515	5345-106C0951	CAP, MINI ELE 10μ/16V				
429	LC202	5214-13801	LC COMPOSITE	640	C516	5345-106C0951	CAP, MINI ELE 10μ/16V				
806	LCN806	4163-S0203251	CONNECTOR W/W	646	C519	5359-S010J182	CAP, PPP 1800P				
807	LCN807	4163-S0205251	CONNECTOR W/W	646	C520	5359-S010J182	CAP, PPP 1800P				
808	LCN808	4163-S0207251	CONNECTOR W/W	645	C521	5359-S010J222	CAP, PPP 2200P				
931	PH801	5624-PC817	PHOTO COUPLR	645	C522	5359-S010J222	CAP, PPP 2200P				
781	TP101	4214-132	TERMINAL	641	C531	5345-227B041	CAP, MINI ELE 220μ/10V				
781	TP102	4214-132	TERMINAL	641	C532	5345-227B041	CAP, MINI ELE 220μ/10V				
781	TP201	4214-132	TERMINAL	640	C533	5345-106C0951	CAP, MINI ELE 10μ/16V				
781	TP202	4214-132	TERMINAL	640	C534	5345-106C0951	CAP, MINI ELE 10μ/16V				
781	TP501	4214-132	TERMINAL	RESISTORS							
781	TP502	4214-132	TERMINAL	390	R151	5135-470522	RES, CBN 1/2P 47				
781	TP601	4214-132	TERMINAL	390	R152	5135-470522	RES, CBN 1/2P 47				
781	TP856	4214-132	TERMINAL	393	R155	5174-S010F223	RES, MTL 1/4P 22K				
781	TP859	4214-132	TERMINAL	393	R156	5174-S010F223	RES, MTL 1/4P 22K				
				394	R157	5174-S010F331	RES, MTL 1/4P 330				
				394	R158	5174-S010F331	RES, MTL 1/4P 330				

Ser. No.	Ref.No.	Part No.	Description	Ser. No.	Ref.No.	Part No.	Description
395	R159	5135-224522	RES, CBN 1/2P 220K	361	Q154	5613-1775(F)	XISTOR, NPN R
395	R160	5135-224522	RES, CBN 1/2P 220K	362	Q155	5613-2320L(F)	XISTOR, NPN R
396	R161	5135-332522	RES, CBN 1/2P 3.3K	362	Q156	5613-2320L(F)	XISTOR, NPN R
396	R162	5135-332522	RES, CBN 1/2P 3.3K	363	Q157	5613-C114TS	XISTOR, NPN R
397	R163	5135-562522	RES, CBN 1/2P 5.6K	363	Q158	5613-C114TS	XISTOR, NPN R
397	R164	5135-562522	RES, CBN 1/2P 5.6K	367	Q159	5613-2878(B)	XISTOR, NPN R
390	R165	5135-470522	RES, CBN 1/2P 47	367	Q160	5613-2878(B)	XISTOR, NPN R
390	R166	5135-470522	RES, CBN 1/2P 47	363	Q161	5613-C114TS	XISTOR, NPN R
399	R167	5135-681522	RES, CBN 1/2P 680	363	Q162	5613-C114TS	XISTOR, NPN R
399	R168	5135-681522	RES, CBN 1/2P 680	368	Q163	5613-C114YS	XISTOR, NPN R
400	R169	5135-684522	RES, CBN 1/2P 680K	368	Q164	5613-C114YS	XISTOR, NPN R
400	R170	5135-684522	RES, CBN 1/2P 680K	362	Q165	5613-2320L(F)	XISTOR, NPN R
401	R171	5135-101522	RES, CBN 1/2P 100	634	Q501	5613-C114YS	XISTOR, NPN R
401	R172	5135-101522	RES, CBN 1/2P 100	634	Q502	5613-C114YS	XISTOR, NPN R
402	R173	5135-102522	RES, CBN 1/2P 1K	634	Q503	5613-C114YS	XISTOR, NPN R
402	R174	5135-102522	RES, CBN 1/2P 1K	634	Q504	5613-C114YS	XISTOR, NPN R
403	R175	5135-682522	RES, CBN 1/2P 6.8K	634	Q505	5613-C114YS	XISTOR, NPN R
403	R176	5135-682522	RES, CBN 1/2P 6.8K	633	Q506	5611-A114YS	XISTOR, PNP R
405	R179	5135-101522	RES, CBN 1/2P 100	634	Q507	5613-C114YS	XISTOR, NPN R
405	R180	5135-101522	RES, CBN 1/2P 100	635	Q509	5613-2120(Y)	XISTOR, NPN R
407	R183	5135-103522	RES, CBN 1/2P 10K	632	Q510	5611-950(Y)	XISTOR, PNP R
407	R184	5135-103522	RES, CBN 1/2P 10K	636	Q531	5613-2320L(F)	XISTOR, NPN R
408	R185	5135-332522	RES, CBN 1/2P 3.3K	636	Q532	5613-2320L(F)	XISTOR, NPN R
408	R186	5135-332522	RES, CBN 1/2P 3.3K	670	Q722	5611-A114YS	XISTOR, PNP R
410	R189	5135-183522	RES, CBN 1/2P 18K	666	Q724	5613-C114YS	XISTOR, NPN R
410	R190	5135-183522	RES, CBN 1/2P 18K				
411	R191	5135-104522	RES, CBN 1/2P 100K			DIODES	
411	R192	5135-104522	RES, CBN 1/2P 100K	370	D151	5635-HZ11B2L	DIODE, ZENER
409	R193	5135-102522	RES, CBN 1/2P 1K	637	D501	5631-1S2473	DIODE, DET
409	R194	5135-102522	RES, CBN 1/2P 1K				
404	R198	5135-4R7522	RES, CBN 1/2P 4.7			COILS	
402	R199	5135-102522	RES, CBN 1/2P 1K	371	L151	5995-S160J472	COIL W/CORE
654	R503	5135-332522	RES, CBN 1/2P 3.3K	371	L152	5995-S160J472	COIL W/CORE
654	R504	5135-332522	RES, CBN 1/2P 3.3K				
647	R505	5135-822522	RES, CBN 1/2P 8.2K			CONTROLS	
647	R506	5135-822522	RES, CBN 1/2P 8.2K	372	VR151	5101-S0801203	RES, SEMI FIX 20K
650	R507	5135-243522	RES, CBN 1/2P 24K	372	VR152	5101-S0801203	RES, SEMI FIX 20K
650	R508	5135-243522	RES, CBN 1/2P 24K	373	VR153	5101-S0801501	RES, SEMI FIX 500
651	R509	5135-561522	RES, CBN 1/2P 560	373	VR154	5101-S0801501	RES, SEMI FIX 500
651	R510	5135-561522	RES, CBN 1/2P 560				
652	R511	5135-102522	RES, CBN 1/2P 1K			MISCELLANEOUS	
653	R512	5135-273522	RES, CBN 1/2P 27K	792	CN151	4443-03201003	CONNECTOR
658	R513	5135-105522	RES, CBN 1/2P 1M	827	CN501	4443-01701012	CONNECTOR
658	R514	5135-105522	RES, CBN 1/2P 1M	828	CN502	4443-01701012	CONNECTOR
658	R515	5135-105522	RES, CBN 1/2P 1M	638	LC501	5214-13701	LC COMPOSITE
658	R516	5135-105522	RES, CBN 1/2P 1M	638	LC502	5214-13701	LC COMPOSITE
657	R517	5135-223522	RES, CBN 1/2P 22K				
649	R519	5135-392522	RES, CBN 1/2P 3.9K			PCB-4 POWER P.C. BOARD	
649	R520	5135-392522	RES, CBN 1/2P 3.9K			CAPACITORS	
648	R521	5135-682522	RES, CBN 1/2P 6.8K	605	▲ C1	5352-S010M103	CAP, MTL .01μ
648	R522	5135-682522	RES, CBN 1/2P 6.8K	606	C2	5352-S060K104	CAP, MTL .1μ
656	R525	5135-101522	RES, CBN 1/2P 100	606	C3	5352-S060K104	CAP, MTL .1μ
656	R526	5135-101522	RES, CBN 1/2P 100	606	C4	5352-S060K104	CAP, MTL .1μ
657	R529	5135-223522	RES, CBN 1/2P 22K	593	C5	5345-228D041	CAP, MINI ELE 2200μ/25V
652	R531	5135-102522	RES, CBN 1/2P 1K	593	C6	5345-228D041	CAP, MINI ELE 2200μ/25V
652	R532	5135-102522	RES, CBN 1/2P 1K	594	C7	5345-227C041	CAP, MINI ELE 220μ/16V
659	R533	5135-104522	RES, CBN 1/2P 100K	594	C8	5345-227C041	CAP, MINI ELE 220μ/16V
659	R534	5135-104522	RES, CBN 1/2P 100K	595	C9	5345-108C041	CAP, MINI ELE 1000μ/16V
652	R535	5135-102522	RES, CBN 1/2P 1K	595	C10	5345-108C041	CAP, MINI ELE 1000μ/16V
652	R536	5135-102522	RES, CBN 1/2P 1K	606	C11	5352-S060K104	CAP, MTL .1μ
652	R537	5135-102522	RES, CBN 1/2P 1K	597	C12	5345-477C041	CAP, MINI ELE 470μ/16V
652	R538	5135-102522	RES, CBN 1/2P 1K	595	C13	5345-108C041	CAP, MINI ELE 1000μ/16V
655	R539	5135-103522	RES, CBN 1/2P 10K	594	C14	5345-227C041	CAP, MINI ELE 220μ/16V
660	R541	5135-221522	RES, CBN 1/2P 220	598	C15	5345-108B041	CAP, MINI ELE 1000μ/10V
660	R542	5135-221522	RES, CBN 1/2P 220	596	C16	5341-109D0958	CAP, ELE 10000μ/25V
702	R723	5135-473522	RES, CBN 1/2P 47K	599	C17	5345-477E041	CAP, MINI ELE 470μ/35V
				600	C18	5345-226F041	CAP, MINI ELE 22μ/50V
				600	C51	5345-226F041	CAP, MINI ELE 22μ/50V
631	IC501	5653-CXA1330S	IC, LINEAR	601	C52	5345-106F041	CAP, MINI ELE 10μ/50V
661	IC701	5654-TC4066BP	IC, DIGITAL	601	C53	5345-106F041	CAP, MINI ELE 10μ/50V
				602	C54	5345-107D041	CAP, MINI ELE 100μ/25V
				603	C71	5345-107B041	CAP, MINI ELE 100μ/10V
				886	C801	5359-S010J103	CAP, PPP .01μ
				887	C802	5345-106C041	CAP, MINI ELE 10μ/16V
361	Q151	5613-1775(F)	XISTOR, NPN R				
361	Q152	5613-1775(F)	XISTOR, NPN R				
361	Q153	5613-1775(F)	XISTOR, NPN R				

Ser. No.	Ref.No.	Part No.	Description	Ser. No.	Ref.No.	Part No.	Description
RESISTORS							
042B	△ R1	5135-335522	RES, CBN 1/2P 3.3M IB BB	877	Q807	5613-1740S(S)	XISTOR, NPN R
608	R3	5135-152522	RES, CBN 1/2P 1.5K	877	Q808	5613-1740S(S)	XISTOR, NPN R
608	R4	5135-152522	RES, CBN 1/2P 1.5K	879	Q809	5613-2320(F)	XISTOR, NPN R
609	R5	5135-471522	RES, CBN 1/2P 470	DIODES			
609	R6	5135-471522	RES, CBN 1/2P 470	579	△ D1	5632-S5566B	DIODE, RECT
610	R7	5135-101522	RES, CBN 1/2P 100	579	△ D2	5632-S5566B	DIODE, RECT
610	R8	5135-101522	RES, CBN 1/2P 100	579	△ D3	5632-S5566B	DIODE, RECT
611	R9	5135-2R7522	RES, CBN 1/2P 2.7	579	△ D4	5632-S5566B	DIODE, RECT
611	R10	5135-2R7522	RES, CBN 1/2P 2.7	579	△ D7	5632-S5566B	DIODE, RECT
608	R11	5135-152522	RES, CBN 1/2P 1.5K	579	△ D8	5632-S5566B	DIODE, RECT
609	R12	5135-471522	RES, CBN 1/2P 470	581	D9	5635-HZ12B2L	DIODE, ZENER
610	R13	5135-101522	RES, CBN 1/2P 100	581	D10	5635-HZ12B2L	DIODE, ZENER
608	R15	5135-152522	RES, CBN 1/2P 1.5K	581	D11	5635-HZ12B2L	DIODE, ZENER
609	R16	5135-471522	RES, CBN 1/2P 470	582	D12	5635-HZ6B2L	DIODE, ZENER
610	R17	5135-101522	RES, CBN 1/2P 100	583	D13	5635-HZ22-2L	DIODE, ZENER
611	R18	5135-2R7522	RES, CBN 1/2P 2.7	584	D14	5635-RD5R1EB3	DIODE, ZENER
612	R19	5135-221522	RES, CBN 1/2P 220	579	△ D15	5632-S5566B	DIODE, RECT
613	R20	5135-223522	RES, CBN 1/2P 22K	579	△ D16	5632-S5566B	DIODE, RECT
613	R21	5135-223522	RES, CBN 1/2P 22K	579	△ D17	5632-S5566B	DIODE, RECT
620	R51	5135-331522	RES, CBN 1/2P 330	579	△ D18	5632-S5566B	DIODE, RECT
621	R52	5135-562522	RES, CBN 1/2P 5.6K	579	△ D51	5632-S5566B	DIODE, RECT
622	R53	5135-154522	RES, CBN 1/2P 150K	579	△ D52	5632-S5566B	DIODE, RECT
623	R54	5135-102522	RES, CBN 1/2P 1K	585	D53	5631-1S2473	DIODE, DET
623	R55	5135-102522	RES, CBN 1/2P 1K	586	D54	5635-RD5R1EB2	DIODE, ZENER
624	R56	5135-104522	RES, CBN 1/2P 100K	588	D55	5635-HZ11A2L	DIODE, ZENER
625	R57	5135-103522	RES, CBN 1/2P 10K	579	D56	5632-S5566B	DIODE, RECT
626	R58	5135-182522	RES, CBN 1/2P 1.8K	579	D57	5632-S5566B	DIODE, RECT
620	R59	5135-331522	RES, CBN 1/2P 330	587	D58	5635-HZ16-2L	DIODE, ZENER
623	R71	5135-102522	RES, CBN 1/2P 1K	590	D71	5635-HZ3B2	DIODE, ZENER
627	R72	5135-471522	RES, CBN 1/2P 470	884	D801	5632-S5566B	DIODE, RECT
625	R73	5135-103522	RES, CBN 1/2P 10K	883	D802	5635-HZ5C2	DIODE, ZENER
623	R74	5135-102522	RES, CBN 1/2P 1K	882	D803	5635-HZ7C3L	DIODE, ZENER
893	△ R801	5102-1005116	RES, FUSE 10	TRANSFORMERS			
895	R803	5135-103522	RES, CBN 1/2P 10K	591	△ T1	5584-S9401	XFORMER, POWER BK
896	R804	5135-150522	RES, CBN 1/2P 15	591B	△ T1	5584-S9402	XFORMER, POWER IB BB
896	R805	5135-150522	RES, CBN 1/2P 15	CONTROLS			
896	R806	5135-150522	RES, CBN 1/2P 15	889	VR801	5101-S0801103	RES, SEMI FIX 10K
896	R807	5135-150522	RES, CBN 1/2P 15	889	VR802	5101-S0801103	RES, SEMI FIX 10K
895	R810	5135-103522	RES, CBN 1/2P 10K	890	VR803	5101-S0801502	RES, SEMI FIX 5K
898	R811	5174-S010F243	RES, MTL 1/4P 24K	MISCELLANEOUS			
894	R812	5174-S010F113	RES, MTL 1/4P 11K	797	CN801	4443-060185	CONNECTOR
897	R814	5135-222522	RES, CBN 1/2P 2.2K	798	CN802	4443-070185	CONNECTOR
899	R815	5135-223522	RES, CBN 1/2P 2.2K	798	CN803	4443-070185	CONNECTOR
897	R816	5135-222522	RES, CBN 1/2P 2.2K	796	CN804	4443-050185	CONNECTOR
899	R817	5135-223522	RES, CBN 1/2P 2.2K	796	CN805	4443-050185	CONNECTOR
900	R818	5135-471522	RES, CBN 1/2P 470	617	△ F1	5732-801031	FUSE BK
895	R819	5135-103522	RES, CBN 1/2P 10K	617B	△ F1	5732-251030	FUSE IB BB
895	R820	5135-103522	RES, CBN 1/2P 10K	618	△ F2	5732-202031	FUSE BK
888	R821	5135-224522	RES, CBN 1/2P 220K	618B	△ F2	5732-202030	FUSE IB BB
INTEGRATED CIRCUIT							
872	IC801	5653-BA6229	IC, LINEAR	616	△ HL1	4472-04501	HOLDER, FUSE
TRANSISTORS							
571	Q1	5612-1375	XISTOR, PNP A	616	△ HL2	4472-04501	HOLDER, FUSE
572	Q2	5614-2012	XISTOR, NPN A	616	△ HL3	4472-04501	HOLDER, FUSE
574	Q3	5613-2320(F)	XISTOR, NPN R	616	△ HL4	4472-04501	HOLDER, FUSE
573	Q4	5611-999(F)	XISTOR, PNP R	804	LCN801	4163-S0206151	CONNECTOR W/W
574	Q5	5613-2320(F)	XISTOR, NPN R	803	LCN802	4163-S0205151	CONNECTOR W/W
573	Q6	5611-999(F)	XISTOR, PNP R	805	LCN803	4163-S0207151	CONNECTOR W/W
571	Q7	5612-1375	XISTOR, PNP A	891	RC801	5212-S0305473	R COMPOSITE
574	Q8	5613-2320(F)	XISTOR, NPN R	892	RC802	5212-S0303473	R COMPOSITE
571	Q10	5612-1375	XISTOR, PNP A	751	△ SW1	4433-01301	SWITCH, PU-PW
574	Q11	5613-2320(F)	XISTOR, NPN R	041B	△ SW2	4411-00501102	SWITCH, ROTARY IB
574	Q12	5613-2320(F)	XISTOR, NPN R	041C	△ SW2	4411-1047111	SWITCH, ROTARY EB
575	Q51	5611-999(F)	XISTOR, PNP R	782	TM1	4214-122	TERMINAL
576	Q71	5613-2320(F)	XISTOR, NPN R	782	TM2	4214-122	TERMINAL
577	Q72	5611-A124ES	XISTOR, PNP R	783	TP806	4214-132	TERMINAL
878	Q801	5613-C114YS	XISTOR, NPN R	783	TP809	4214-132	TERMINAL
876	Q802	5613-2925(T)	XISTOR, NPN R	PCB-5 FRONT P.C BOARD			
875	Q803	5611-933S(S)	XISTOR, PNP R	CAPACITORS			
876	Q804	5613-2925(T)	XISTOR, NPN R	849	C901	5345-106D0356	CAP,MINI ELE 10µ/25V
876	Q805	5613-2925(T)	XISTOR, NPN R	852	C902	5359-S010J103	CAP,PPP .01µ
877	Q806	5613-1740S(S)	XISTOR, NPN R				

Ser. No.	Ref.No.	Part No.	Description
850	C903	5345-476C0356	CAP, MINI ELE 47 μ /16V
RESISTORS			
862	R901	5135-101522	RES, CBN 1/2P 100
866	R902	5135-102522	RES, CBN 1/2P 1K
858	R903	5135-221522	RES, CBN 1/2P 220
858	R904	5135-221522	RES, CBN 1/2P 220
859	R905	5135-472522	RES, CBN 1/2P 4.7K
860	R906	5135-682522	RES, CBN 1/2P 6.8K
861	R907	5135-183522	RES, CBN 1/2P 18K
859	R908	5135-472522	RES, CBN 1/2P 4.7K
860	R909	5135-682522	RES, CBN 1/2P 6.8K
861	R910	5135-183522	RES, CBN 1/2P 18K

Ser. No.	Ref.No.	Part No.	Description
841	IC901	5654-MN187167	IC, DIGITAL

Ser. No.	Ref.No.	Part No.	Description
MISCELLANEOUS			
784	CN901	4443-0301140	CONNECTOR
785	CN902	4443-0601140	CONNECTOR
793	CN903	4443-05401030	CONNECTOR
765	FL901	5722-058	TUBE DISPLAY
845	RCV901	6143-00802	RECEIVE BLOCK
855	RC901	5212-S0307123	R COMPOSITE
752	S901	4437-01202	SWITCH, PU-TC
752	S902	4437-01202	SWITCH, PU-TC
752	S903	4437-01202	SWITCH, PU-TC
752	S904	4437-01202	SWITCH, PU-TC
752	S905	4437-01202	SWITCH, PU-TC
752	S906	4437-01202	SWITCH, PU-TC
752	S907	4437-01202	SWITCH, PU-TC
752	S908	4437-01202	SWITCH, PU-TC
847	X901	5693-CST4MGW	OSC, CER

PCB-6 CONT SW-R P.C. BOARD

Ser. No.	Ref.No.	Part No.	Description
RESISTORS			
867	R916	5135-472522	RES, CBN 1/2P 4.7K
868	R917	5135-682522	RES, CBN 1/2P 6.8K
MISCELLANEOUS			
810	LCN902	4163-S0106800	CONNECTOR W/W
843	LED901	5637-SEL2410E	LED
843	LED902	5637-SEL2410E	LED
755	S916	4437-01201	SWITCH, PU-TC
756	S917	4437-01202	SWITCH, PU-TC
755	S918	4437-01201	SWITCH, PU-TC
755	S920	4437-01201	SWITCH, PU-TC
755	S921	4437-01201	SWITCH, PU-TC

PCB-7 CONT SW-L P.C. BOARD

Ser. No.	Ref.No.	Part No.	Description
RESISTORS			
863	R911	5135-472522	RES, CBN 1/2P 4.7K
864	R912	5135-682522	RES, CBN 1/2P 6.8K
863	R913	5135-472522	RES, CBN 1/2P 4.7K
864	R914	5135-682522	RES, CBN 1/2P 6.8K
865	R915	5135-183522	RES, CBN 1/2P 18K
MISCELLANEOUS			
809	LCN901	4163-S0103800	CONNECTOR W/W
753	S909	4437-01201	SWITCH, PU-TC
753	S910	4437-01201	SWITCH, PU-TC
753	S911	4437-01201	SWITCH, PU-TC
754	S912	4437-01202	SWITCH, PU-TC
753	S913	4437-01201	SWITCH, PU-TC
753	S914	4437-01201	SWITCH, PU-TC
754	S915	4437-01202	SWITCH, PU-TC

Ser. No.	Ref.No.	Part No.	Description
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ABBREVIATIONS IN PARTS LIST**CAPACITORS**

CAP, MINI ELE	: Electrolytic
CAP, CER	: Ceramic
CAP, PPP	: Polypropylene
CAP, MYL	: Mylar
CAP, MCA	: Mica
470 μ	: 470 μ F
6800P	: 6800PF
.047 μ	: 0.047 μ F

RESISTORS

RES, CBN	1/6P : Carbon 1/6W
	2.2K : 2.2k Ω
	220 : 220 Ω
RES, FUSE	: Fuse
RES, CEM	5P : Cement 5W
RES, MTL	1P : Metal 1W

TRANSISTORS

XISTOR	: Transistor
FET	: Field Effect Transistor

CONTROLS

RES, V CBN	: Variable Carbon Resistor
RES, SEMI FIX	: Semi - fixed Resistors

CHASSIS MISCELLANEOUS

766	Δ P1	4161-71151	CORD W/PLUG BK
766	Δ P1	4161-7256	CORD W/PLUG IB
766	Δ P1	4161-04100	CORD W/PLUG BB
767		4161-71184	CORD W/PLUG, RCA TYPE (ACCESSORY) (x2)
786	LUG1	4211-4	LUG, CABINET FRONT
786	LUG2	4211-4	LUG, CABINET FRONT

PACKAGE PARTS LIST

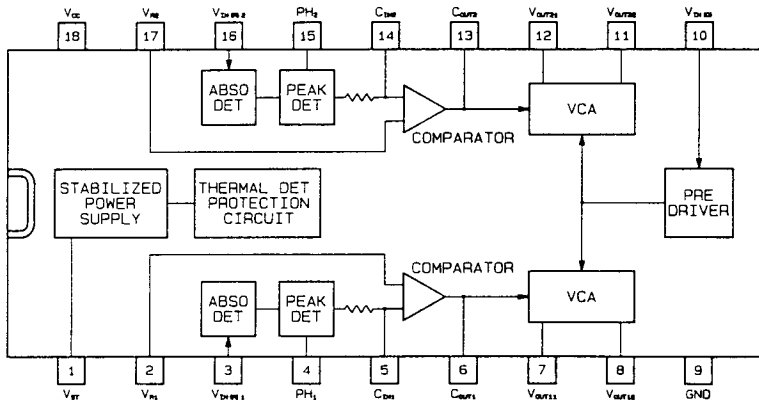
021B	1756-03108	LABEL (x2) IB
021C	1756-03111	LABEL (x2) BB
022B	1756-06303	LABEL IB BB
023C	1756-08501	LABEL 240V BB
024C	1111-J30319	OWNER GUIDE 240V CAUTION BB
109	1111-J30355	OWNER GUIDE BK BB
109B	1111-J30356	OWNER GUIDE IB
110	1113-02501	OWNER CARD BK
112	1116-03801	WARRANTY CARD BK
113	1119-04501	ATTACH SHEET, SERVICE STATION BK
114	1119-01201	ATTACH SHEET, SAFETY BK
117A	1221-30203	CARTON BOX BK IB BB
118	1222-7384	CUSHION, R
119	1222-7385	CUSHION, L
121	1223-R0220055	SOFT SHEET, SET FRONT
122	1223-00403012	SOFT SHEET, CASS. LID
123	1241-R0160600	POLYETHY BAG, SET
124	1241-R0123350	POLYETHY BAG, OG
768	6142-02707	CONTROL BLOCK

NOTE:

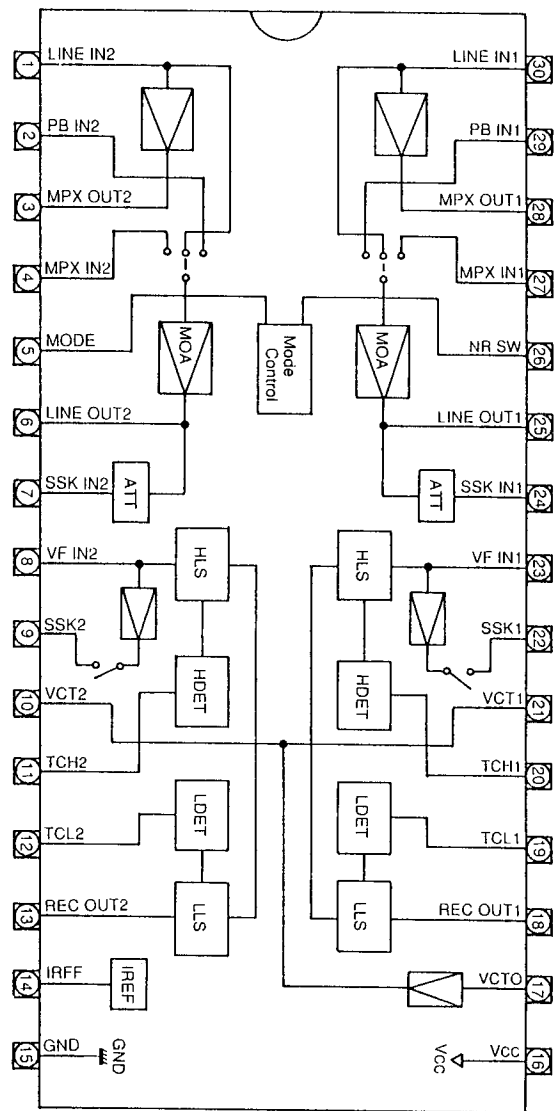
Δ SAFETY RELATED COMPONENT. USE ONLY EXACT REPLACEMENT PART AS SPECIFIED.

IC BLOCK DIAGRAM

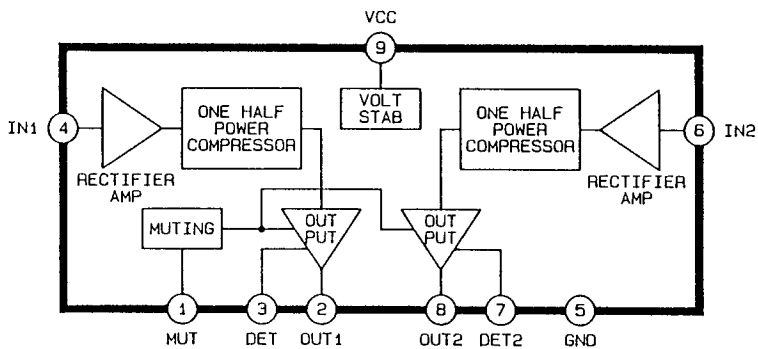
IC301 : μ PC1297CA
Dolby HX Pro



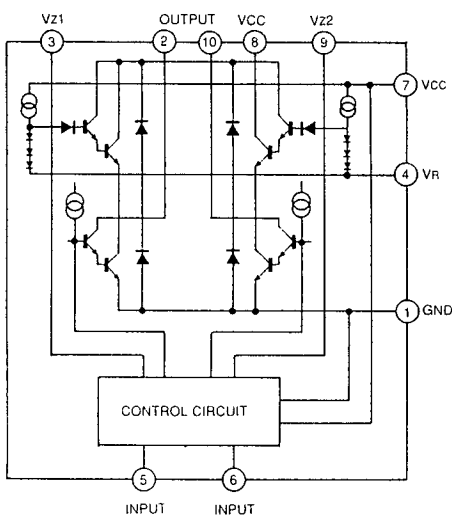
IC501 : CXA1330S
Dolby B/C NR



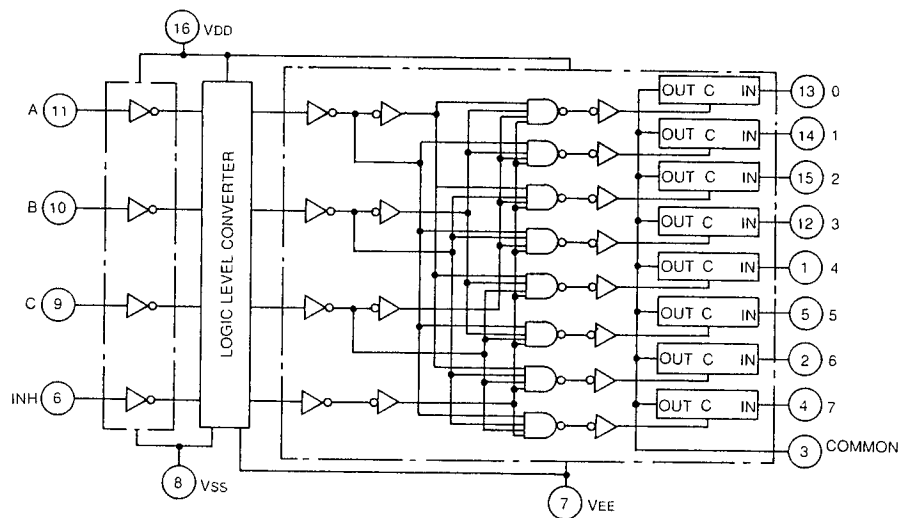
IC402 : BA6138
Signal Level Meter



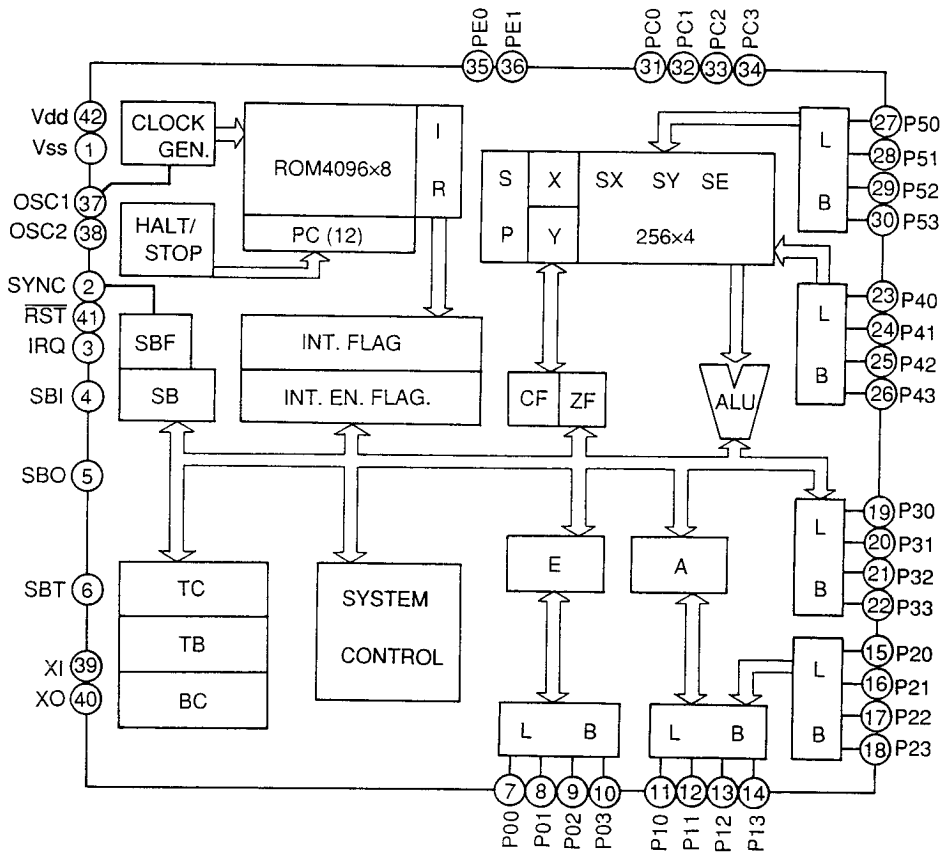
IC801, 802 : BA6229
Motor Driver



IC753 : TC4051BP



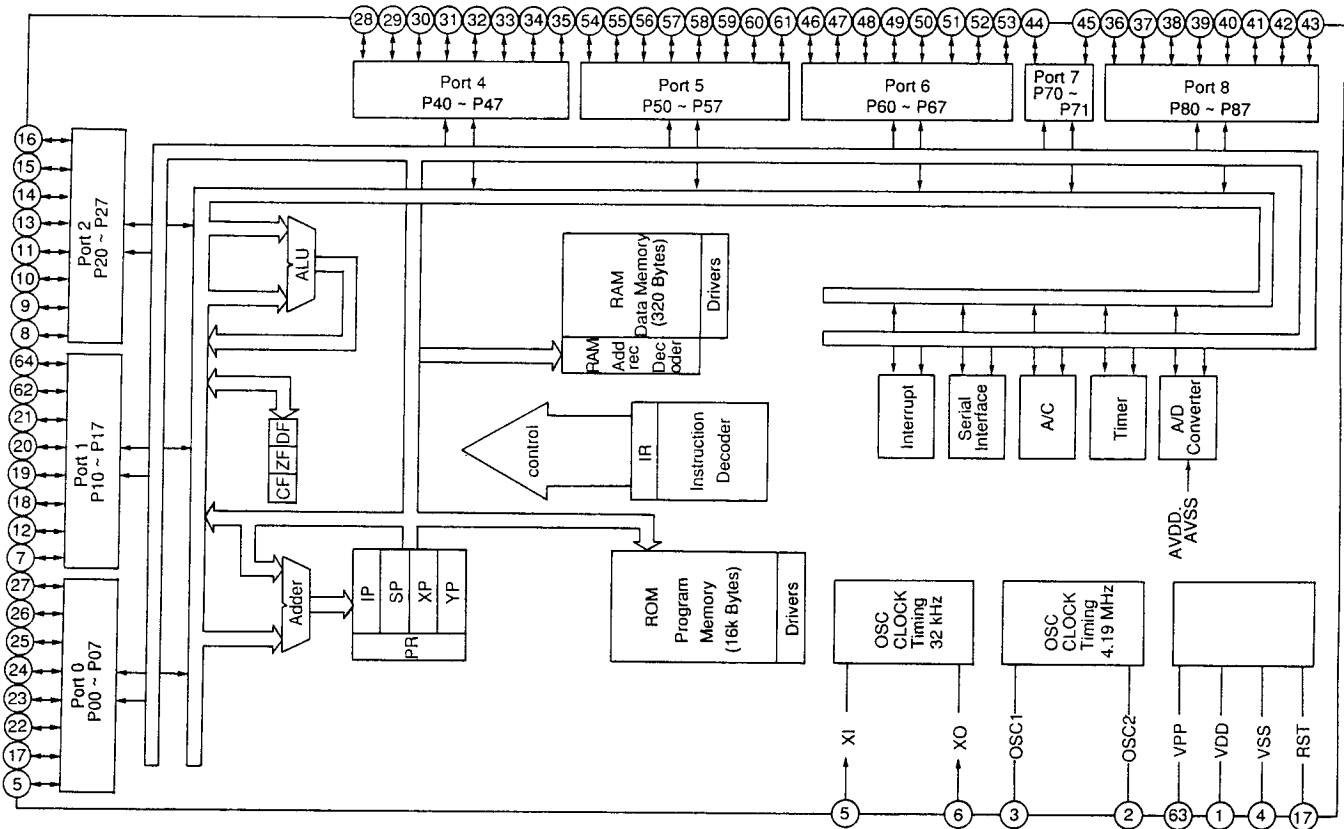
IC751 : MN15542
Logic Control Block



TERMINAL FUNCTIONS

NO.	Name	Functional Name	I/O	Description	NO.	Name	Functional Name	I/O	Description
1	Vss	Vss		GND	22	P33	LINE MUTE	0	Line mute output
2	SYNC			Not used	23	P40	SEC-RPC	0	SEC reel motor drive voltage change-over
3	IRQ	STB IN	I	STB input from MAIN	24	P41	SEC-RM2	0	SEC reel motor reverse drive output
4	SBI	DATA IN	I	Data input from MAIN	25	P42	SEC-RM1	0	SEC reel motor forward drive output
5					26	P43	SEC-SOLP	0	SEC solenoid retaining output
6	SBT	CLK IN/OUT	I/O	Clock input/output for data communication with SUB	27	P50	SEC-SOL	0	SEC solenoid trigger output
7	P00	SEC-RE MUTE	0	SEC playback mute output	28	P51	SEC-CPM	0	SEC capstan motor drive output
8	P01	SEC-REC MUTE	0	SEC REC mute output	29	P52	SEC-MMS	0	SEC capstan motor rpm change-over
9	P02	SEC-REC	0	SEC REC change-over output	30	P53	HI SPD	0	EQ change-over at high-speed copy
10	P03	SEC-BIAS	0	SEC bias drive output	31	PC0	PRI-DOLBY C	0	PRI Dolby C drive output
11	P10	PRO-PB MUTE	0	PRI playback mute output	32	PC1	PRI-DOLBY B	0	PRI Doby B drive output
12	P11	PRI-REC MUTE	0	PRI recording mute output	33	PC2	PRI-MPX	0	PRI MPX filter drive output
13	P12	PRI-REC	0	PRI recording mute change-over	34	PC3	SEC-DOLBY C	0	SEC Dolby C drive output
14	P13	PRI-BIAS	0	PRI bias drive output	35	PE0	SEC-DOLBY B	0	SEC Dolby B drive output
15	P20	PRI-RPC	0	PRI reel motor drive voltage change-over	36	PE1	BUSY OUT	0	
16	P21	PRI-RM2	0	PRI reel motor reverse drive output	37	OSC1	OSC1		Ceramic resonator connection
17	P22	PRI-RM2	0	PRI reel motor forward DRIVE output	38	OSC2	OSC2		Transmitting frequency : 4.0 MHz
18	P30	PRI-SOLP	0	PRI solenoid retaining power	39	XI			Not used
19	P23	PRI-SOL	0	PRI solenoid trigger output	40	XO			
20	P31	PRI-CPM	0	PRI capstan motor drive output	41	RST	RESET	I	Reset
21	P32	PRI-MMS	0	PRI capstan motor rpm change-over	42	Vdd	Vdd		5V DC power connection

IC901 : MN187167
Main Controller



TERMINAL FUNCTIONS

NO.	Name	Functional Name	I/O	Description	NO.	Name	Functional Name	I/O	Description	NO.	Name	Functional Name	I/O	Description
1	Vdd	Vdd		5V DC power supply	22	P05	R-SI	I	Remote control input	39	P84	S. R. LED	O	H when SYNC. REVERSE LED is on
2	OSC	OSC OUT		Ceramic resonator connection Transmitting frequency : 4.0 MHz	23	P04	VOLT-DN	I	Power OFF detection ; L when OFF	40	P83	A. P. LED	O	H when AUTO PAUSE LED is on
3	OSC	OSC IN			24	P03	MS GAIN	I	MS amplifier gain control ; H when the gain is small	41	P82	G0	O	FL display grid drive output
4	Vss	Vss		25	P02	CLK IN/OUT	I/O	Clock input/output terminal for data communication with SUB	42	P81	G1	O		
5	P06	BUSY IN	I	26	P01	DATA IN	I	Serial data input from SUB	43	P80	G2	O		
6	X0			27	P00	DATA OUT	O	Serial data output to SUB	44	P71	G3	O		
7	P17	SYNC. REV. KEY	I	28	P47	SEC-F. REC	I	SEC tape front hook detection ; L when REC enabled	45	P70	G4	O		
12	P16	A-PAUSE KEY	I	29	P46	SEC-R. REC	I	SEC tape rear hook detection	46	P67	G5	O		
8	AD7	KEY IN 5	I	30	P45	PRI-REEL 2	I	PRI right reel pulse input	47	P66	G6	O		
9	AD6	KEY IN 4	I	31	P44	PRI-REEL 1	I	PRI left reel pulse input	48	P65	G7	O		
10	AD5	KEY IN 3	I	32	P43	PRI-PACK DET	I	PRI pack detection	49	P64	G8	O		
11	AD4	KEY IN 2	I	33	P42	PRI-QUICK DET	I	PRI quick photo detection.	50	P63	a	O	FL display anode drive output	
13	AD3	KEY IN 1	I	34	P41	PRI-R. REC	I	PRI tape rear hook detection	51	P62	b	O		
14	AD2	MS IN	I	35	P40	PRI-F. REC	I	PRI tape front hook detection	52	P61	c	O		
15	AD1	METER R	I	36	P87	STB OUT	O	STB output to SUB	53	P60	d	O		
16	AD0	METER L	I	37	P86	COPY	O	H when copying from SEC to PRI	54	P57	e	O		
17	RST	RESET	I	38	P85	SEC	O	Voice output to LINE OUT and MS amplifier: H when SEC output and L when PRI output	55	P56	f	O		
18	P15	SEC-REEL 2	I						56	P55	g	O		
19	P14	SEC-REEL 1	I						57	P54	h	O		
20	P13	SEC-PACK DET	I						58	P53	i	O		
21	P12	SEC-QUICK DET	I						59	P52	j	O		
									60	P51	k	O		
									61	P50	l	O		
									62	P11	INI SET B	I	Initial setting SW B connection	
									63	Vpp	Vpp		Negative voltage load terminal for FL	
									64	P10	INI SET A		Initial setting SW A connection	

SCHEMATIC DIAGRAM (1)

NOTES:

1. ALL RESISTANCES VALUES ARE IN Ω
k Ω = 1000 Ω , M Ω = 1000k Ω
2. THE WATTAGE OF RESISTORS IS 1/2W UNLESS OTHERWISE NOTED.

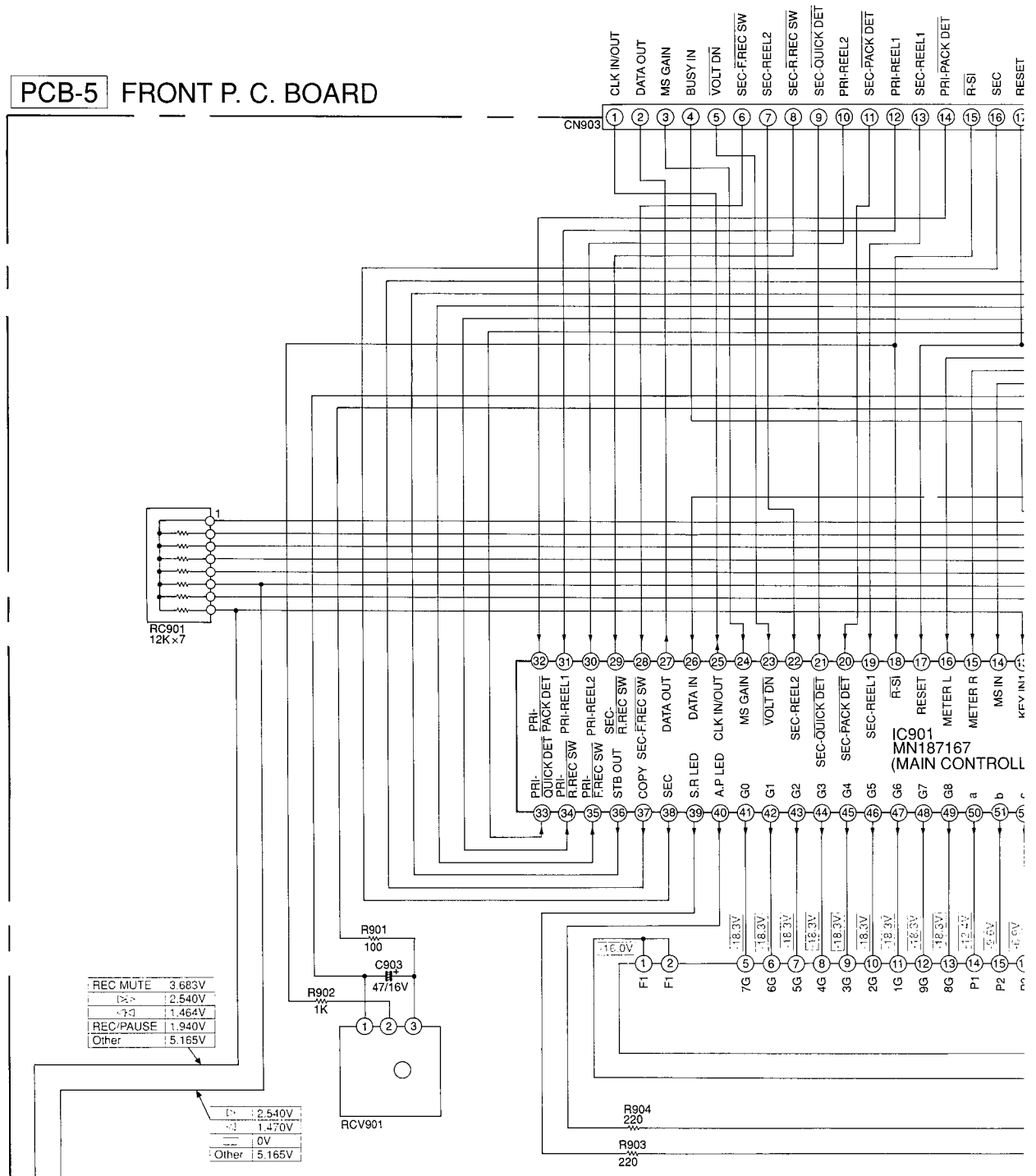
OTHERWISE NOTED.

3. ALL CAPACITANCES VALUES ARE IN μ F UNLESS OTHERWISE NOTED. P = μ F.
4. V : DC VOLTAGE AT NO SIGNAL

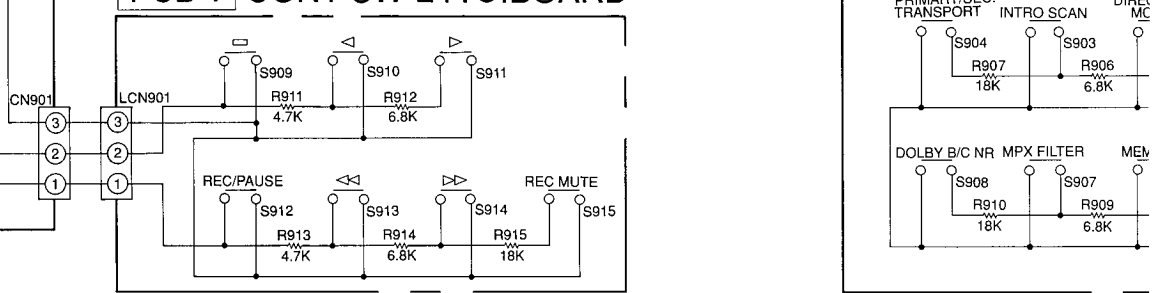
Page 25

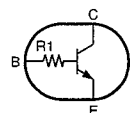
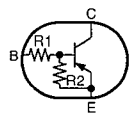
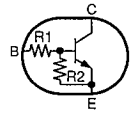
7 N A

PCB-5 FRONT P. C. BOARD



PCB-7 CONT SW-L P. C. BOARD



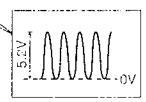
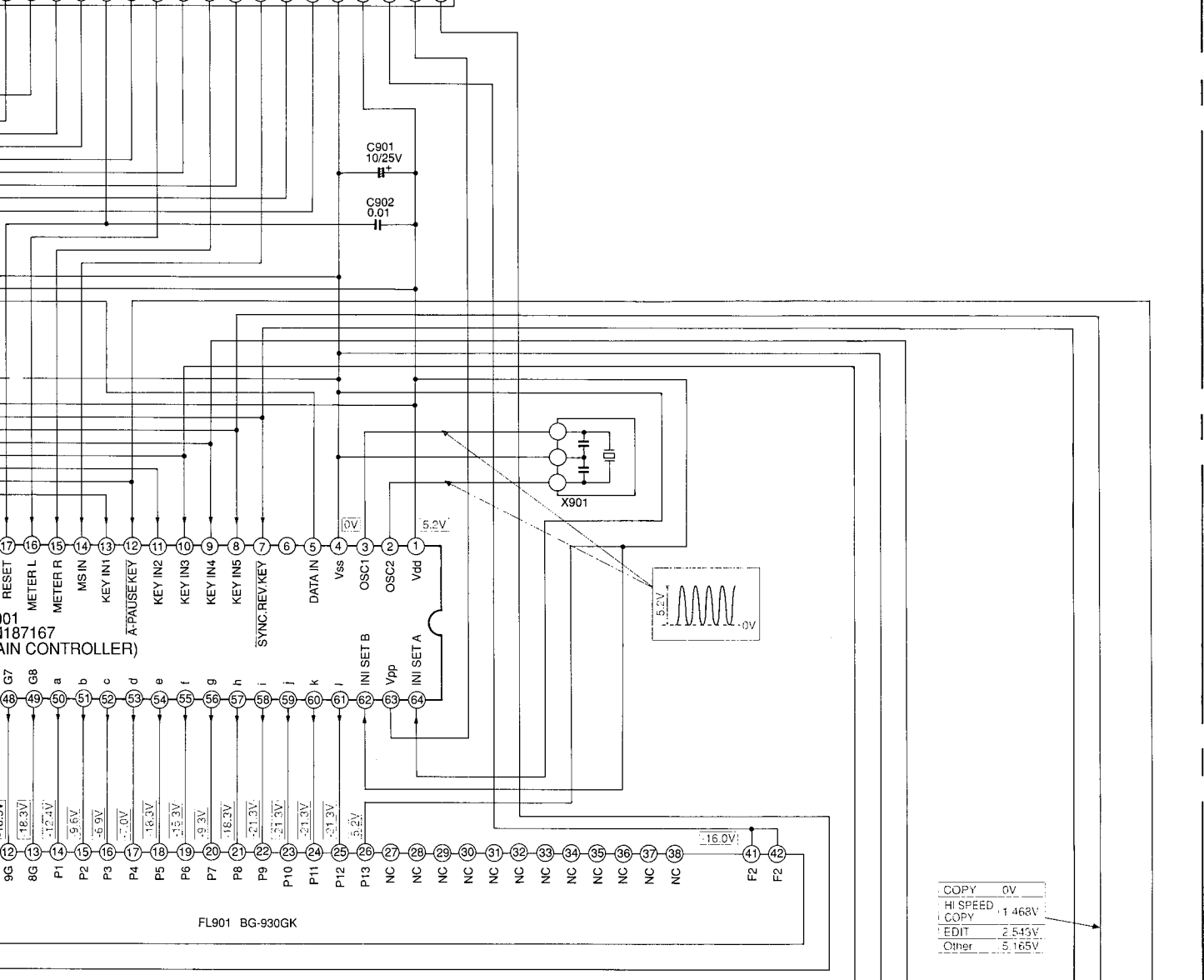


Type	R1	R2
DTC114YS	10K	47K
DTC124ES	22K	22K

Type	R1	R2
DTA114YS	10K	47K
DTA124ES	22K	22K
DTA143ES	4.7K	4.7K

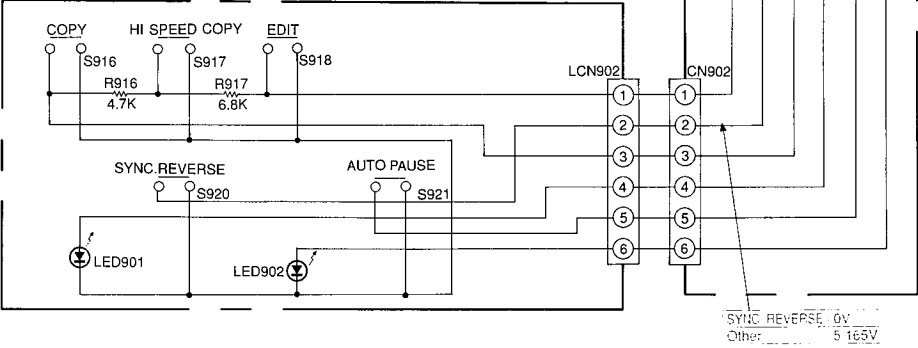
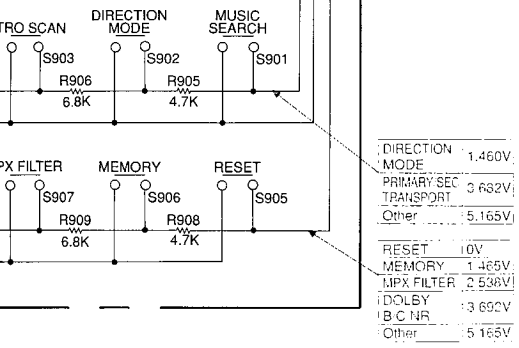
Type	R1
DTC114TS	10K

- SEC-REEL1
- PRI-PACK DET
- R-SI
- SEC
- RESET
- COPY
- METER L
- STB OUT
- METER R
- PRI-FREC SW
- MS IN
- PRI-R-REC SW
- PRI-QUICK DET
- GND
- +5V
- AC 4V
- 22V
- AC 4V



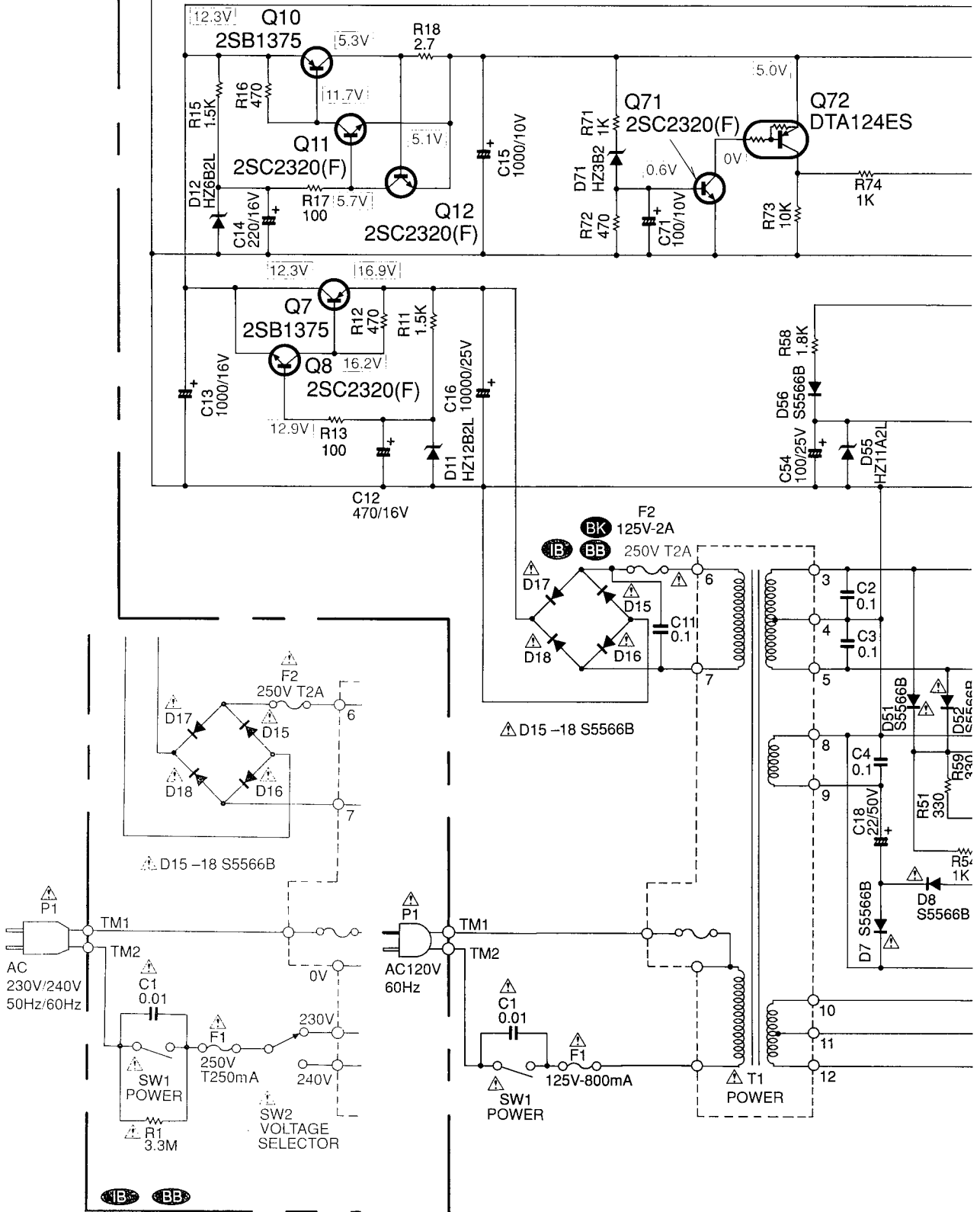
COPY	0V
HI SPEED	1.468V
COPY	2.543V
EDIT	2.543V
Other	5.165V

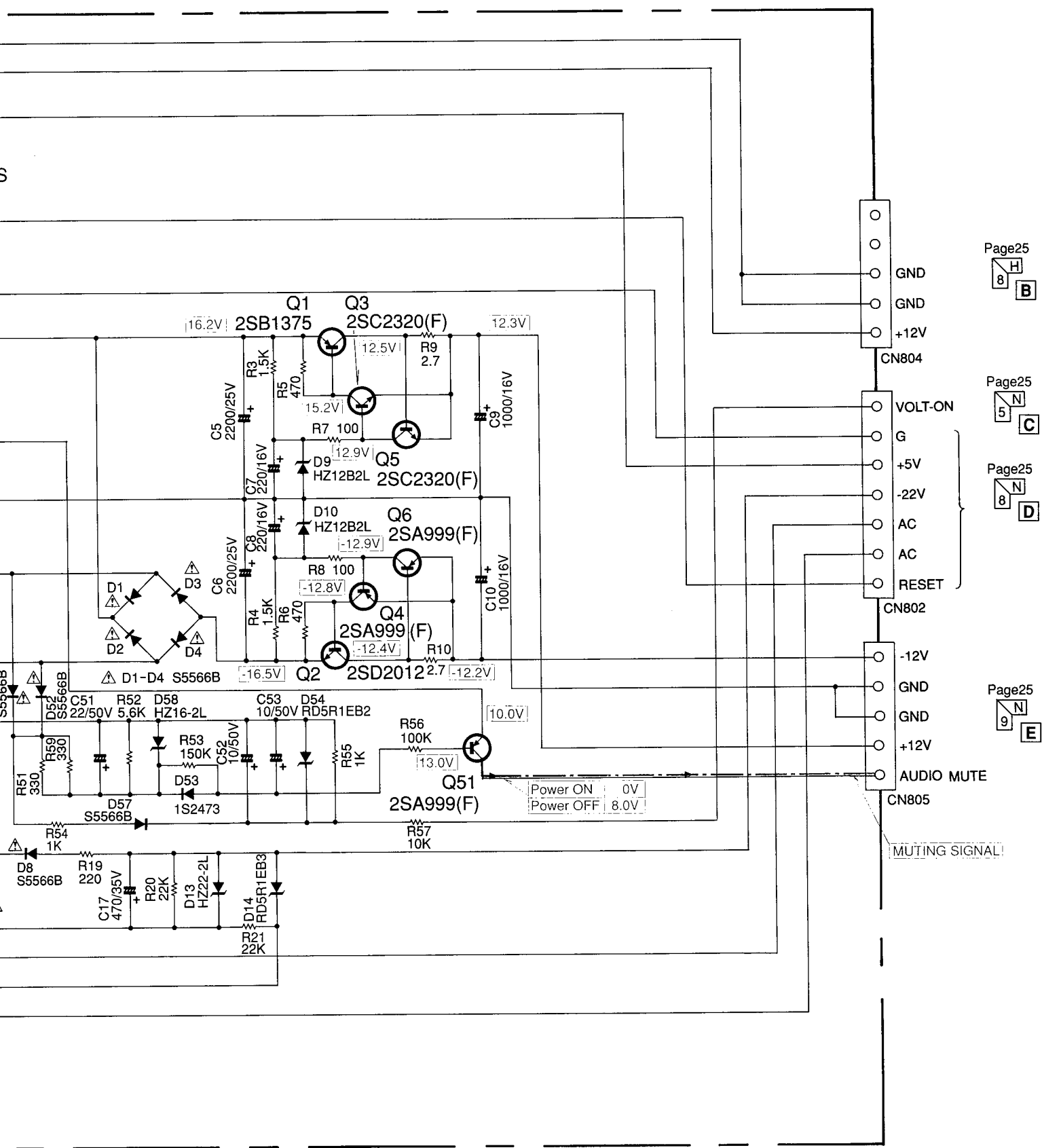
PCB-6 CONT SW-R P.C. BOARD



SCHEMATIC DIAGRAM (2)

PCB-4 POWER P. C. BOARD (1/2)





Page25
H
8 B

Page25
N
5 C

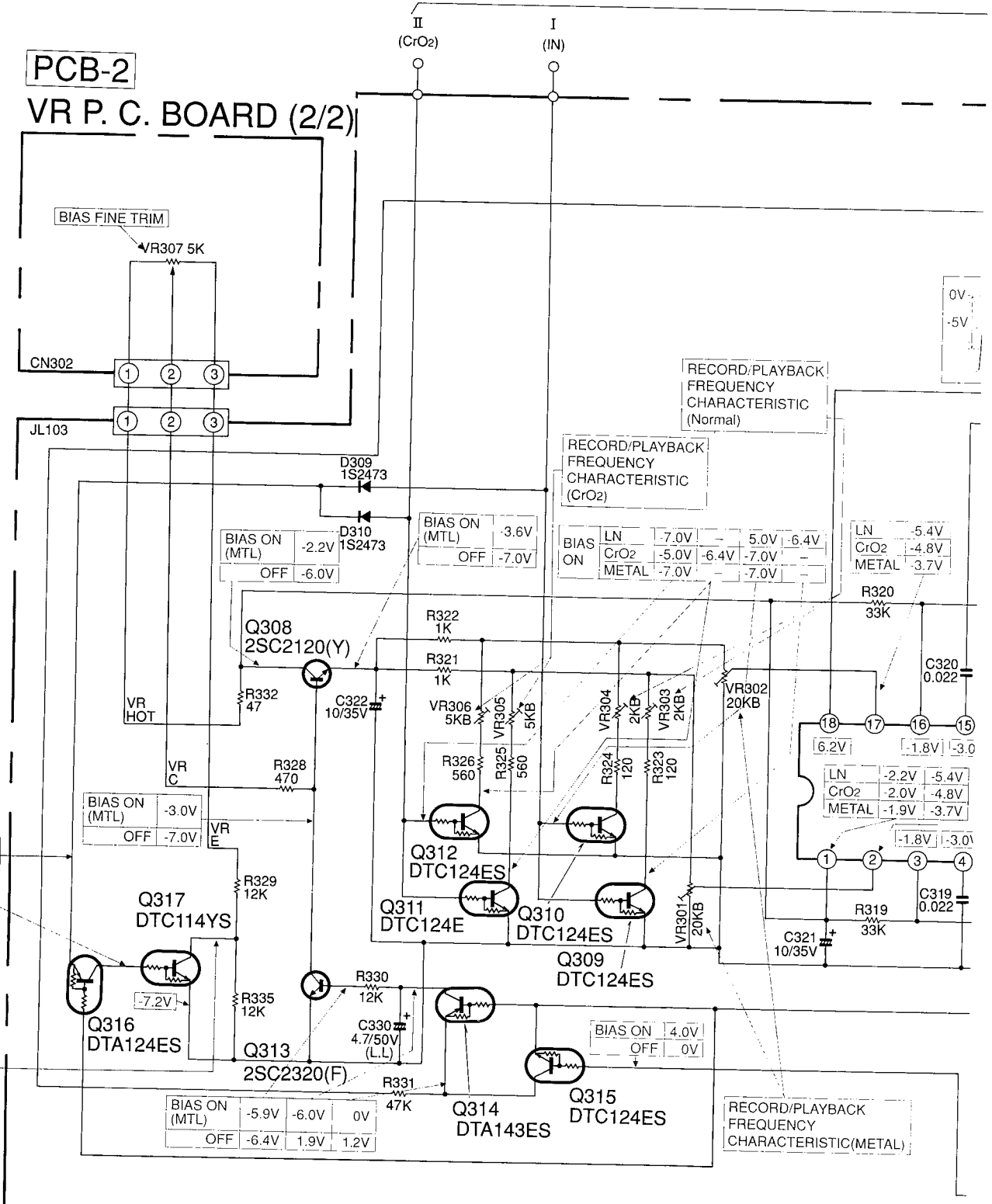
Page25
N
8 D

Page25
N
9 E

SCHEMATIC DIAGRAM (3)



PCB-2
VR P. C. BOARD (2/2)



PCB-1 MAIN P. C. BOARD (2/2)

RECORD/PLAYBACK
FREQUENCY
CHARACTERISTIC
(Normal)

RECORD/PLAYBACK
FREQUENCY
CHARACTERISTIC
(CrO₂)

BIAS ON	LN	-7.0V	-	5.0V	-6.4V
CrO ₂	-5.0V	-6.4V	-7.0V	-	-
METAL	-7.0V	-	-7.0V	-	-

LN	-5.4V
CrO ₂	-4.8V
METAL	-3.7V

BIAS ON (MTL)

ON	-3.0V
OFF	-7.0V

BIAS ON (MTL)

ON	-4.0V
OFF	-7.0V

BIAS ON (MTL)

ON	-5.9V	-6.0V	0V
OFF	-6.4V	1.9V	1.2V

LN	-2.2V	-5.4V
CrO ₂	-2.0V	-4.8V
METAL	-1.9V	-3.7V

LN	-2.2V	-5.4V
CrO ₂	-2.0V	-4.8V
METAL	-1.9V	-3.7V

BIAS ON

ON	4.0V
OFF	0V

RECORD/PLAYBACK
FREQUENCY
CHARACTERISTIC (METAL)

METAL	4.0V
Other	0V

LN	4.4V
CrO ₂	4.4V
METAL	-7.2V

BIAS ON (MTL)

ON	-4.0V
OFF	-7.0V

1

2

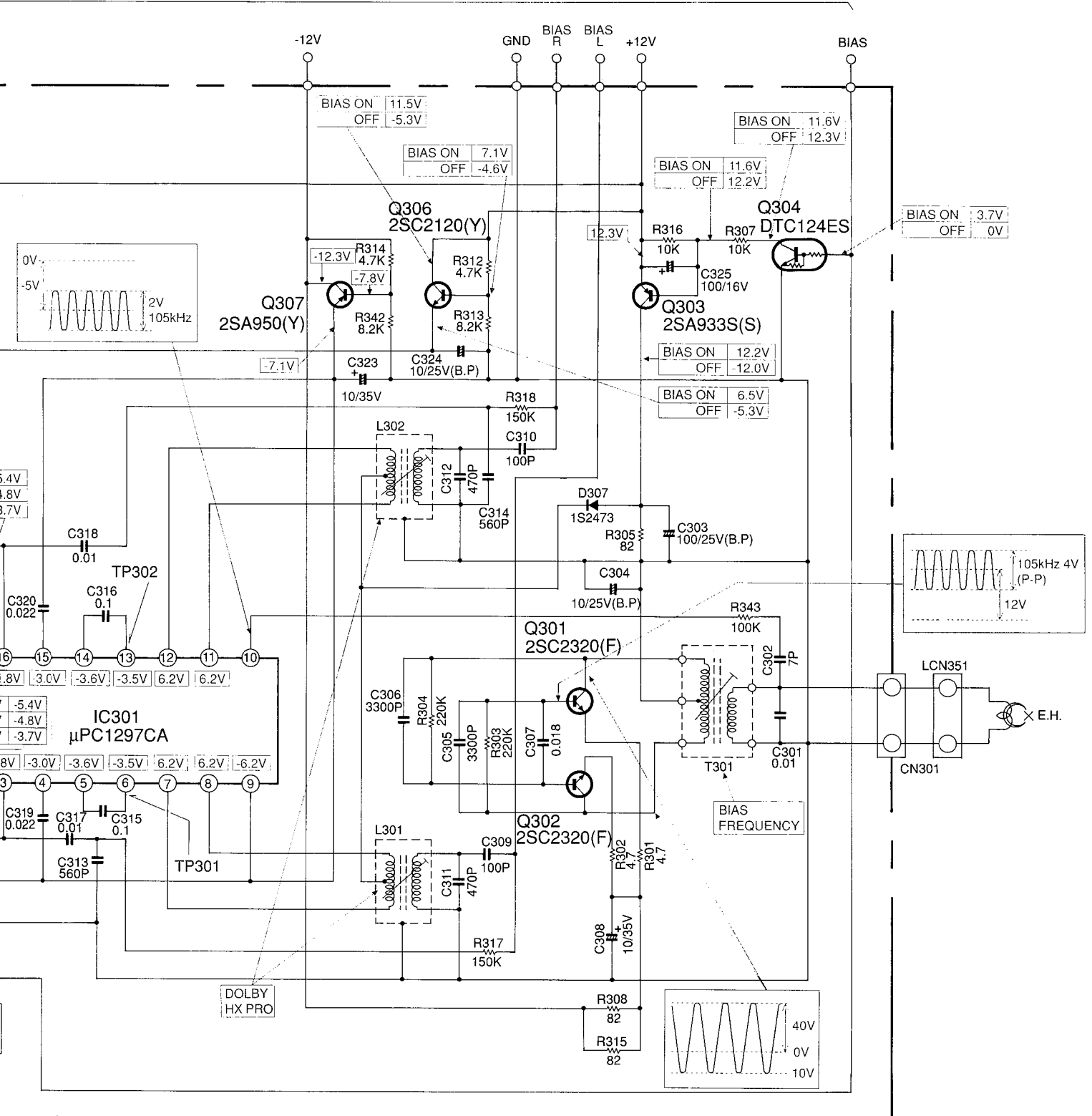
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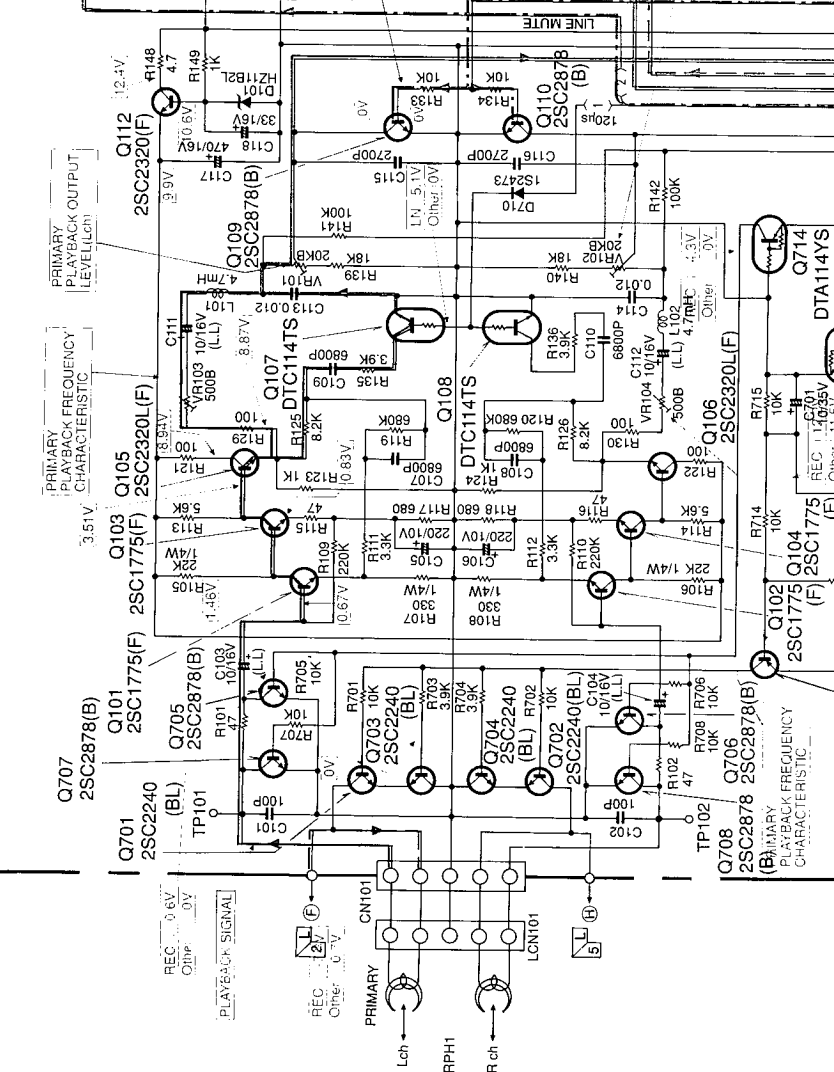
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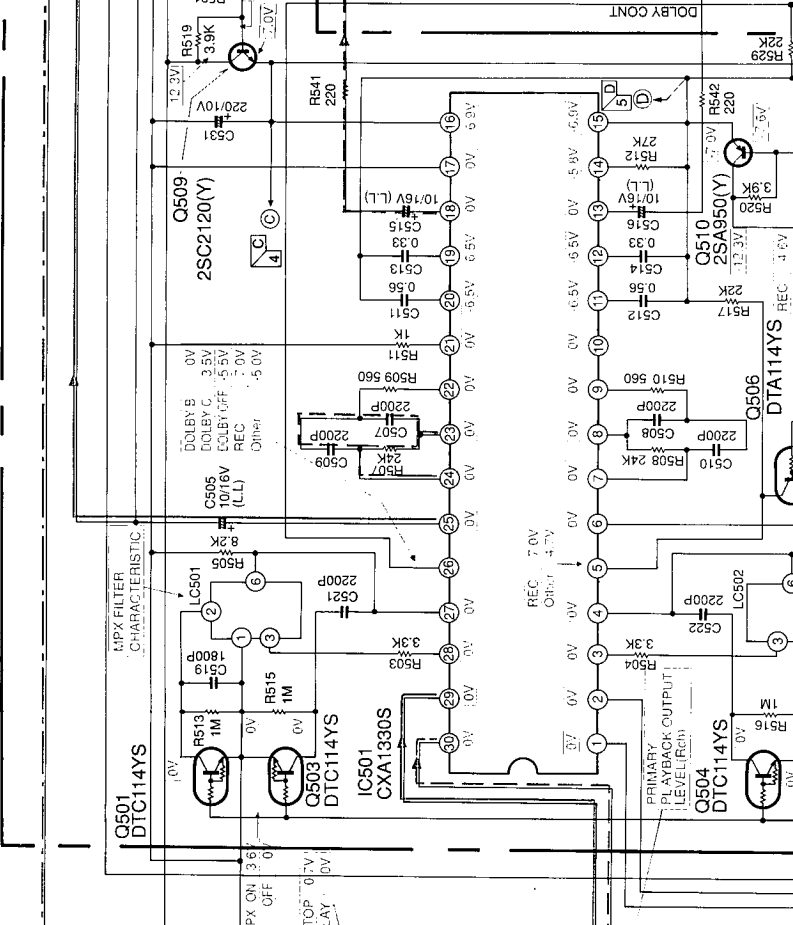


SCHEMATIC DIAGRAM (4)

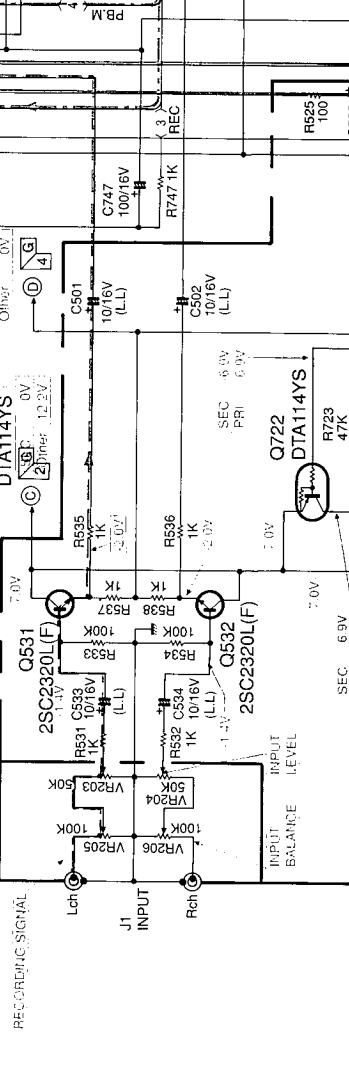
PCB-1 MAIN P. C. BOARD (1/2)



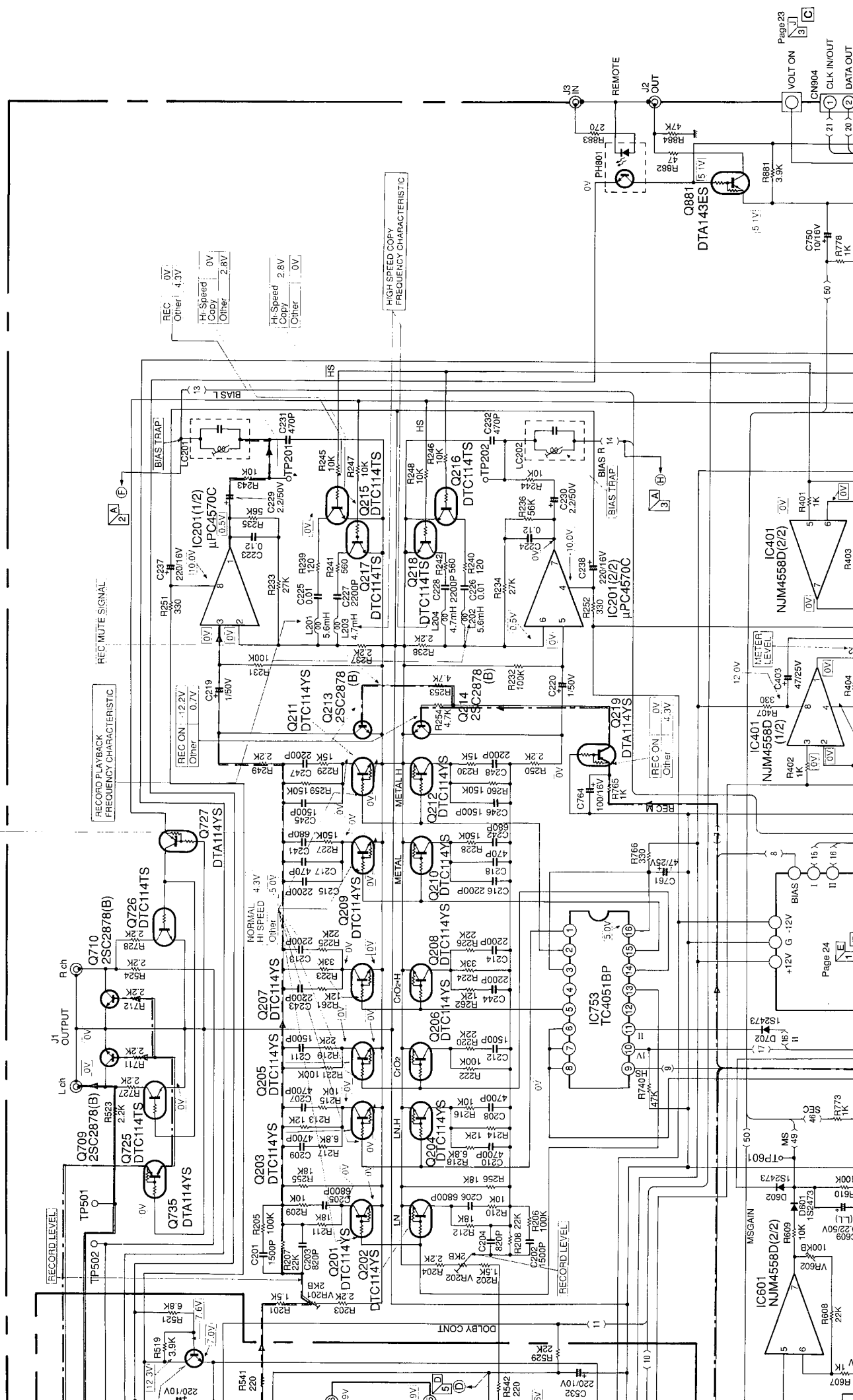
PCB-3 DOLBY P. C. BOARD

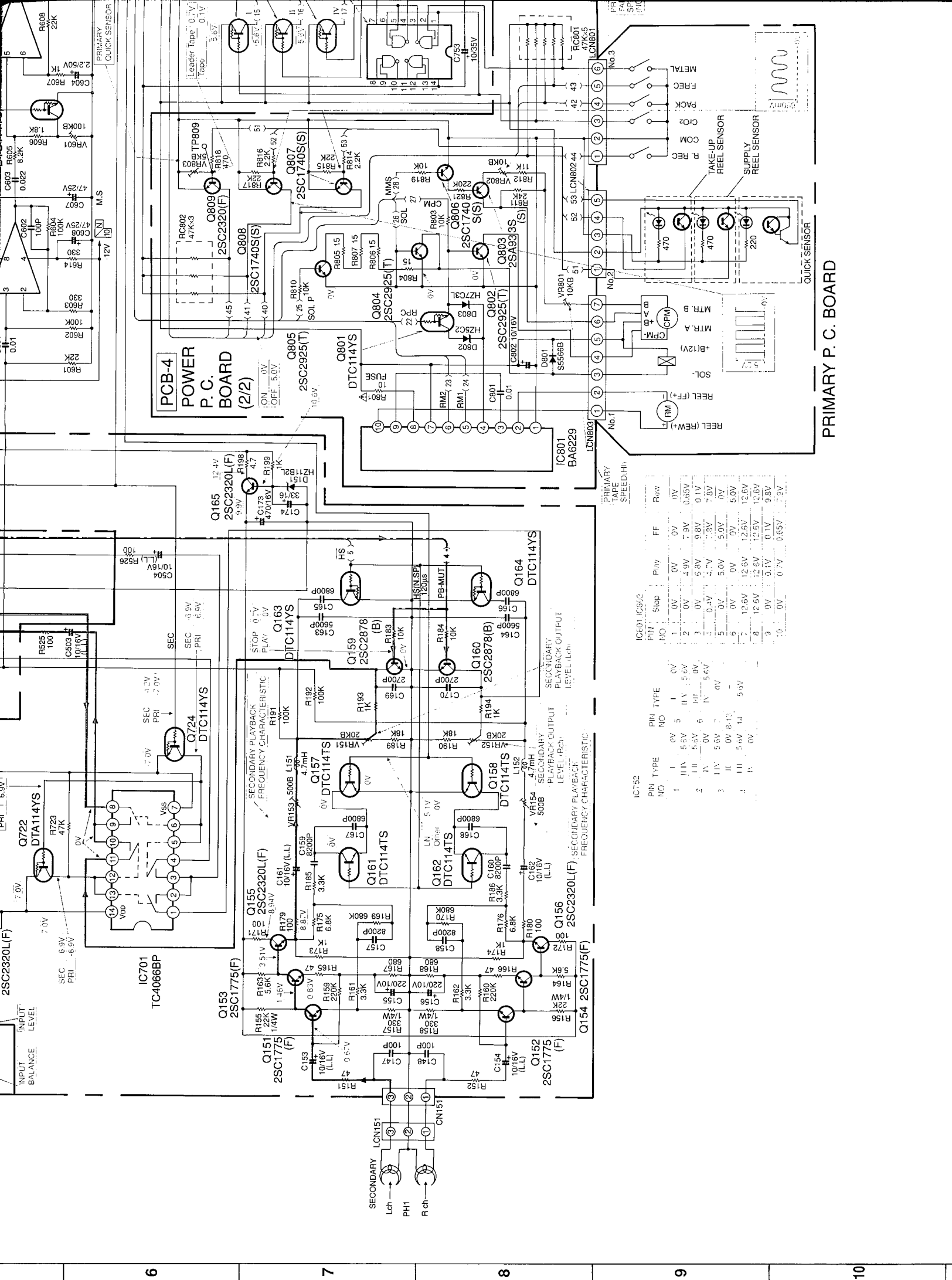


PCB-2 VR P. C. BOARD (1/2)



N M L K J I H





**PCB-4
POWER
P.C.
BOARD
(2/2)**

**IC701
TC4066BP**

**IC801
BA6229**

IC752

IC752	Pin	Type	Value	IC801	Pin	Type	Value
1	1	IV	5.5V	1	1	IV	5.5V
2	2	IV	5.5V	2	2	IV	5.5V
3	3	IV	5.5V	3	3	IV	5.5V
4	4	IV	5.5V	4	4	IV	5.5V
5	5	IV	5.5V	5	5	IV	5.5V
6	6	IV	5.5V	6	6	IV	5.5V
7	7	IV	5.5V	7	7	IV	5.5V
8	8	IV	5.5V	8	8	IV	5.5V
9	9	IV	5.5V	9	9	IV	5.5V
10	10	IV	5.5V	10	10	IV	5.5V

IC801/IC802

IC801/IC802	Pin	Type	Value	IC801	Pin	Type	Value
1	1	IV	5.5V	1	1	IV	5.5V
2	2	IV	5.5V	2	2	IV	5.5V
3	3	IV	5.5V	3	3	IV	5.5V
4	4	IV	5.5V	4	4	IV	5.5V
5	5	IV	5.5V	5	5	IV	5.5V
6	6	IV	5.5V	6	6	IV	5.5V
7	7	IV	5.5V	7	7	IV	5.5V
8	8	IV	5.5V	8	8	IV	5.5V
9	9	IV	5.5V	9	9	IV	5.5V
10	10	IV	5.5V	10	10	IV	5.5V

PRIMARY P.C. BOARD

