

# SUPERSCOPE®

STEREO 8-TRACK  
RECORDING SYSTEM

Model TDR-830

## SERVICE DATA

— Feb. 1977 —



**SUPERSCOPE INC.**  
20525 NORDHOFF STREET  
CHATSWORTH, CALIFORNIA · 91311 · U.S.A.

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## SPECIFICATIONS

Tape Speed	9.5 cm/sec. (3-3/4 i.p.s.)	Input Sensitivity	80 mV
Tape	IEC 8 Track Cartridge	Two Microphone (one for each channel)	
Recording System	8 Track 2 Channel Stereo	Plug Type	6 $\phi$
Fast Forward	Normal Speed x 2	Impedance	Low
Frequency Response	50 Hz ~ 10 kHz	Input Sensitivity	0.25 mV
Signal to Noise Ratio	44 dB	Outputs	
Bias Frequency	60 kHz	Two Line (one for each channel)	
Type of Level Indication	Two VU Meters	Plug Type	Phono
Head Configuration	1 Record/Playback and Erase Combined	Impedance	2 k $\Omega$
Wow & Flutter	0.2% WRMS	Output Level	0.775 V (at 0 VU)
Type of Motor	1 DC Mechanical Governor Controlled with Fast Forward	One Stereo Headphone	
Number of Semi-Conductors	Transistor: 36	Plug Type	6 $\phi$
	FET: 2	Impedance	8 $\Omega$
	Diodes: 25	Output Level	30 mV
	Thyristor: 1	Power Requirements	120 Volts 60 Hz, 12 Watts
Inputs		Dimensions	
Two Auxiliary (one for each channel)		Width	360 mm (14.2 inches)
Plug Type	Phono	Height	122 mm ( 4.8 inches)
Impedance	180 k $\Omega$	Depth	287 mm (11.3 inches)
		Unit Weight	5.7 kg (12.6 lbs.)

## 1. DESCRIPTION OF TAPE MECHANISM CONTROLS

### 1.1 PAUSE/START Switch

This switch functions as the Pause Switch with muting capability. When placed in the Auto Stop mode during FF or Record, this switch functions as the Start Switch if it is depressed once and returned to its normal position by depressing it once again.

### 1.2 FF Switch

This switch enables Fast Forward during Playback with the audio signal muted and the tape mechanism automatically stops when Fast Forward is completed. This switch does not function in the Record mode.

### 1.3 MODE REC Switch

This switch selects EACH (the tape mechanism automatically stops after recording each track) or ALL (The tape mechanism automatically stops only after recording Track 1 through Track 4) during the Record mode. This switch does not function during the Play Back mode.

### 1.4 MODE PLAY Switch

This switch selects REPEAT (the same one track is repetitively played back) or ALL (Tracks 1 through 4 are repetitively played back) during the Playback mode. This switch does not function during the Record mode.

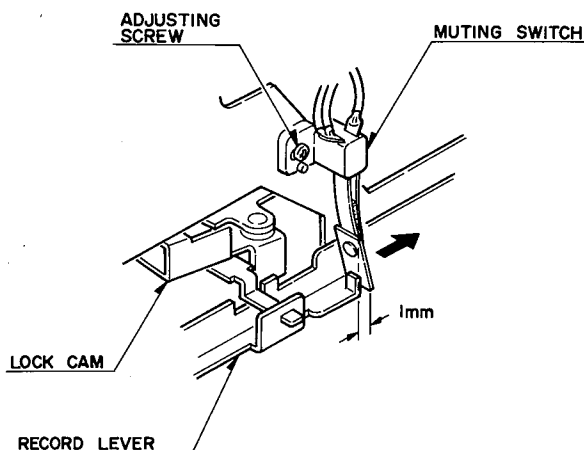
## 2. MEASUREMENT AND ADJUSTMENT PROCEDURES

### NOTE

Before making any adjustments or measurements described below, clean the heads with gauze containing alcohol or carbon tetrachloride, and fully demagnetize the heads, capstan and similar parts. After adjustment, apply a drop of paint to the adjustment screw heads and chassis to maintain the proper adjustment.

### 2.1 Adjusting the Muting Switch

With the record lever locked, the muting switch (S014) should be fixed with the adjusting screw in the position that the muting switch is pushed 1 mm further after making contact.



**2.2 Head Height and Azimuth Adjustment**

Remove the cover for the Azimuth adjusting hole and the Height adjusting hole by removing the screw.

**(1) Azimuth Adjustment**

Set Program 2. Playback a standard alignment tape with 7.5 kHz frequency. Adjust the azimuth adjusting screw for maximum output at the right and left channel LINE OUT jacks. Verify this with an AC VTVM.

If the output levels of the right and left channels differ, adjust the azimuth adjustment screw for a peak reading.

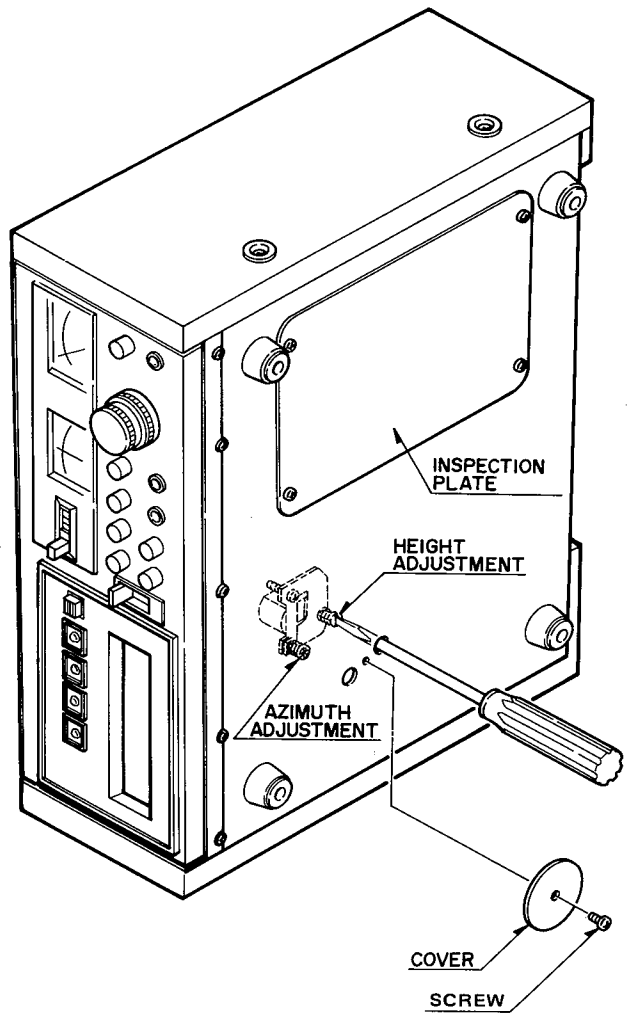
**(2) Height Adjustment**

Play back a head height alignment tape. Adjust the height adjusting screw.

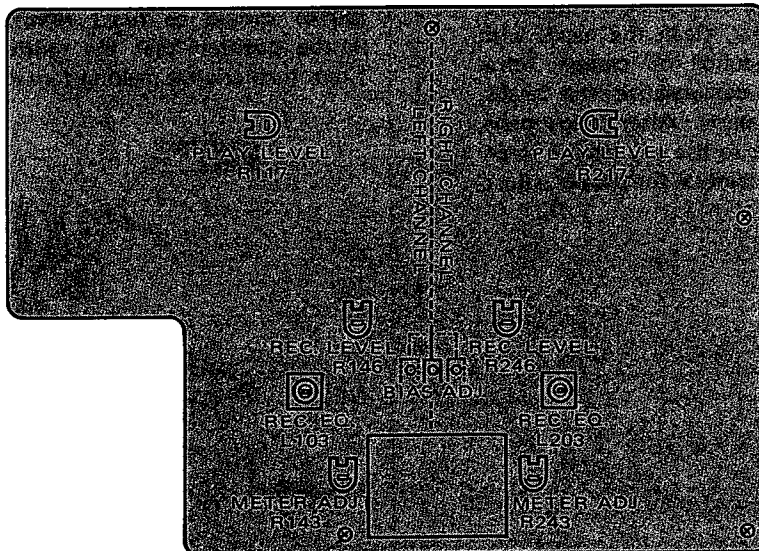
**NOTE**

The adjustment should be made repeating the steps 1 and 2 to obtain the optimum conditions for both.

After adjustment, change the program several times to ensure no head height and azimuth deviation exists.



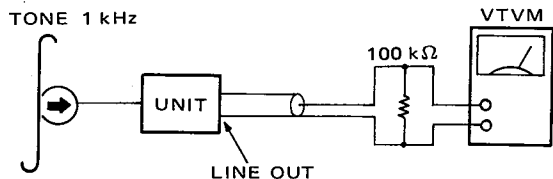
REC/PB AMP ADJUSTMENT POINTS



### 2.3 Playback Level Adjustment

Switch Settings: Limiter ..... OFF  
 Dolby ..... OFF

Set the program 2. Connect an AC VTVM to left channel LINE OUT jack. Play back a standard test tape with 1 kHz tone recorded at 0 dB. Adjust R117 for 0.775 volts output. Connect AC VTVM to right channel LINE OUT jack. Adjust R217 for 0.775 volts output. Level difference between left channel and right channel should be within  $\pm 1$  dB.



### 2.4 VU Meter Adjustment

Switch Settings: Limiter ..... OFF  
 Dolby ..... OFF

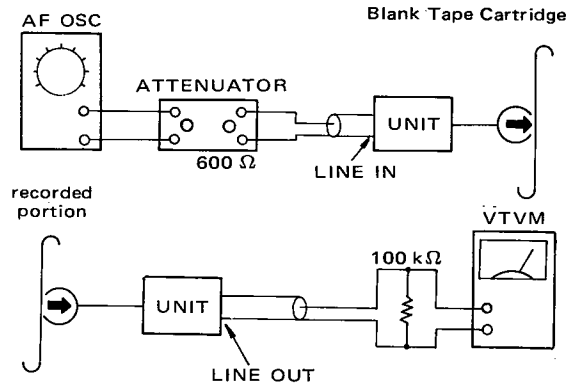
Set the program 2. Play back a standard test tape with 1 kHz tone recorded at 0 dB. Adjust R143 (Left), R243 (Right) for 0 VU.

### 2.6 Record Bias Current Adjustment

Switch Settings: Limiter ..... OFF  
 Dolby ..... OFF

Set the program 2. Connect an audio oscillator to the left channel LINE IN jack. Connect an AC VTVM to the left channel LINE OUT jack. Apply a 1 kHz -10 dB signal to LINE IN jack. Adjust left channel RECORD VOLUME control for 0 dB on the VU meter. Reduce oscillator output by 10 dB and record 10 seconds of 1 kHz. Switch oscillator frequency to 8 kHz and record 10 seconds of 8 kHz. Play back tape. 1 kHz and 8 kHz frequencies should measure -10 dBm  $\pm 3$  dB on AC VTVM. If 8 kHz is more than 3 dB below the 1 kHz reading, relocate J304 to J303 and repeat test. If 8 kHz is more than 3 dB above 1 kHz, relocate J304 to J301 and repeat test. Perform same bias measurement and adjustment procedure on right channel.

1 V = 0 dB



### 2. Record Equalization Adjustment

Switch Settings: Limiter ..... OFF  
 Dolby ..... OFF

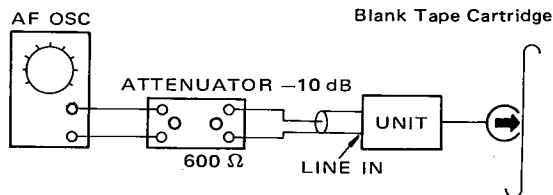
Disconnect J304 then Connect an audio oscillator to the left channel LINE IN jack. Connect an AC VTVM to the J102 and J103 (shield side). Apply a 1 kHz -10 dB signal to LINE IN jack. Adjust left channel RECORD VOLUME control for 0 VU on VU meter. Reduce oscillator output by 10 dB. Switch oscillator frequency to 13 kHz and adjust L103 to Maximum reading. Perform same adjustment procedure on right channel. Connection of an AC VTVM is the J202 and J103 (shield side) and the adjustment coil is L203. Connect J304 to the J302.

### 2.7 Record Level Adjustment

Switch Settings: Limiter ..... OFF  
 Dolby ..... OFF

Set the program 2. Connect an audio oscillator to the left channel LINE IN jack. Connect an AC VTVM to the left channel LINE OUT jack. Apply a 1 kHz, -10 dB signal and adjust the Record Volume Control for a 0 dB reading on the VU meter and record the reading on the AC VTVM. Record this signal; then play it back. The playback level on the AC VTVM should be same as record ( $\pm 1$  dB). If not, adjust R146 and repeat test until record level is correct. Counterclockwise rotation increases record level. Repeat adjustment procedure on right channel. (R246; Clockwise rotation increases record level.)

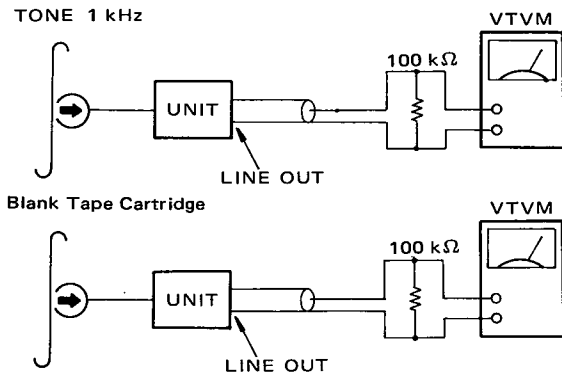
1 V = 0 dB



**2.8 Playback Signal to Noise Ratio Measurement**

Switch Settings: Limiter ..... OFF  
 Dolby ..... OFF

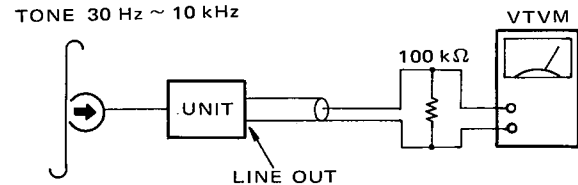
Set the program 2. Connect AC VTVM to left channel LINE OUT and play back a 1 kHz test tape. Read playback output as a 0 dB reference. Then play back an unused tape and note the output level drop in dB. This is the playback signal to noise ratio. Repeat test for right channel.



**2.9 Playback Frequency Response Measurement**

Switch Settings: Limiter ..... OFF  
 Dolby ..... OFF

Set the program 2. Connect an AC VTVM to the left channel LINE OUT jack. Play back a 30 Hz ~ 10 kHz frequency response test tape and note output level on AC VTVM. It shouldn't deviate more than ±3 dB from level specified on test tape. Repeat test on right channel. If unit doesn't meet specification, adjust head azimuth as required.

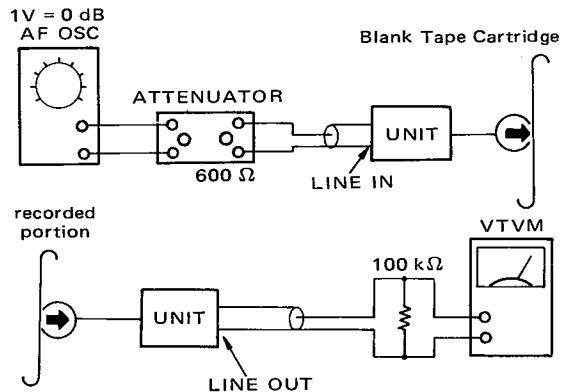


**2.10 Record/Playback Output Level, Signal-to-Noise Ratio Measurements:**

Switch Settings: Limiter ..... OFF  
 Dolby ..... OFF

Set the program 2. Connect an audio oscillator to the left channel LINE IN jack. Connect an AC VTVM to the left channel LINE OUT jack. Apply a 1 kHz -10 dB signal and record an unused tape. Adjust left channel Record Volume Control to obtain a 0 dB reading on the VU meter. While still recording, detach the oscillator lead to develop the no-signal recording. Play back the recorded 1 kHz signal, measuring output level. Record/playback output level should be 0 dB (±1 dB). Note the drop in output level on AC VTVM between 1 kHz and no-signal segments of tape. This is the unit's Record/Playback Signal-to-Noise

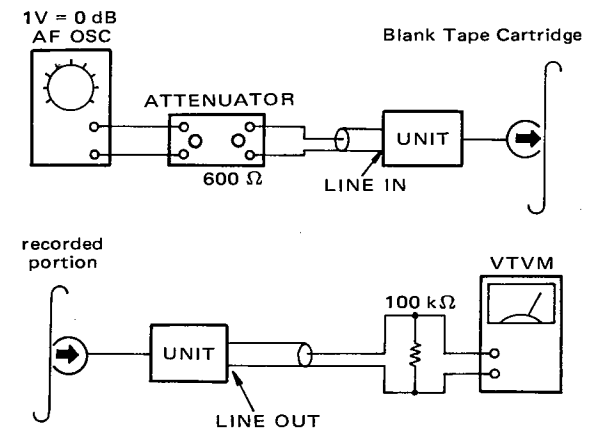
Ratio. Turn Dolby switch on. Repeat measurement, using a 300 Hz high pass filter between the VTVM and the unit. S/N ratio should improve 8 dB indicating Dolby decode section is functioning properly.



**2.11 Record/Playback Frequency Response Measurement**

Switch Settings: Limiter ..... OFF  
 Dolby ..... OFF

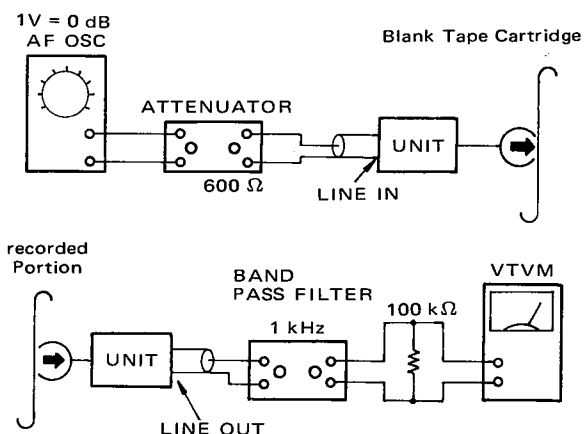
Set program 2. Connect an audio oscillator to the left channel LINE IN jack. Connect an AC VTVM to left channel LINE OUT jack. Apply a 1 kHz, -10 dB signal and record it on an unused standard tape. Adjust left channel record level control for 0 dB reading on the VU meter. Then reduce oscillator input by 20 dB. While recording, switch oscillator frequency to 50 Hz and 8 kHz; Note output levels. Then switch in the Dolby circuit and repeat the frequency sweep. Play back tape, noting output levels on AC VTVM. Repeat test on right channel.



## 2.12 Erase Ratio Measurement

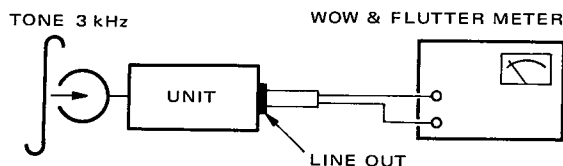
Switch Settings: Limiter ..... OFF  
Dolby ..... OFF

Set the program 2. Connect an audio oscillator to the left channel LINE IN jack, an AC VTVM to the left channel LINE OUT jack. Place unit in record mode and apply a 1 kHz, -10 dB signal from the oscillator. Adjust the Record Volume for 0 dB on the VU meter. Then increase output from the oscillator by 10 dB and continue recording for 30 seconds. Next, forward half of the recorded segment and select the same program. Detach the audio oscillator from the LINE input and erase half the recorded segment. Play back the recorded and erased tape through a 1 kHz bandpass filter. Measure the level difference between the recorded and residual signal. Erase ratio should be at least -55 dB.



## 2.13 Measurement of Wow and Flutter — in Playback Mode —

Set program 2. Play back a 3 kHz Test Tape, connect a wow and flutter meter to the LINE OUT jack to confirm that the meter reading satisfies the specified value. The measurement should be performed at least 30 seconds after placing the unit in Playback mode.



## 3. DOLBY SECTION

### 3.1 Encoder Adjustment

Switch Settings: Dolby ..... OFF  
Limiter ..... OFF

1. Place unit in record mode.
2. Set the LAW control (R815/R915) for maximum source voltage at the FET (Q803/Q903).
3. Set DOLBY switch to OFF position and ground test point (TP) of the channel under test.
4. Apply a 5 kHz signal to the LINE input. Adjust audio oscillator output to obtain 17.5 mV at terminal A (A') on the Dolby board.
5. Measure output level obtained at terminal B (B') with an AC VTVM. Use this output as a 0 dB reference.
6. Set DOLBY to ON position. Adjust GAIN control (R819/R919) to obtain an output at terminal B (B') which is 10 dB  $\pm$ 0.25 dB higher than the output obtained in step 5.
7. Remove ground from test point (TP). Adjust LAW control (R815/R915) to obtain a 2 dB  $\pm$ 0.25 dB drop in output at terminal B (B').
8. Re-connect ground to test point (TP) and verify output increases 2 dB  $\pm$ 0.25 dB.

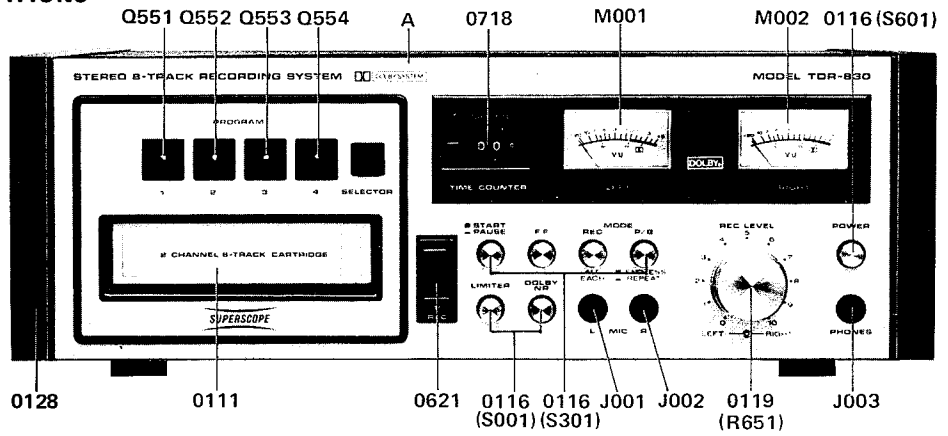
### 3.2 Decoder Adjustment

Switch Settings: Dolby Switch ..... OFF  
Limiter ..... OFF

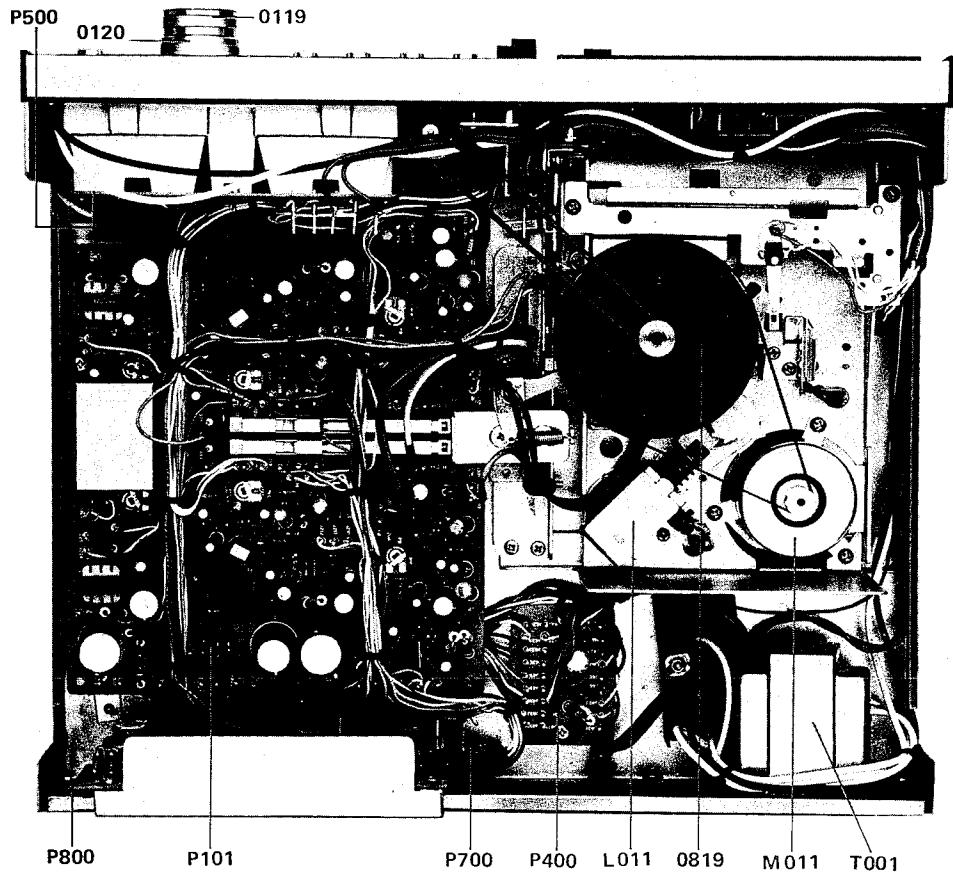
1. Set unit in play mode.
2. Ground test point (TP) on Dolby board.
3. Apply 5 kHz to LINE IN jack. Adjust audio oscillator for 44 mV at terminal A (A').
4. Switch Dolby Switch on. Output at terminal A (A') should now drop 10 dB  $\pm$ 0.5 dB.
5. Disconnect ground from test point (TP). Check for 17.5 mV ( $\pm$ 0.5 dB) at terminal A (A').

4. MAJOR PARTS LOCATIONS

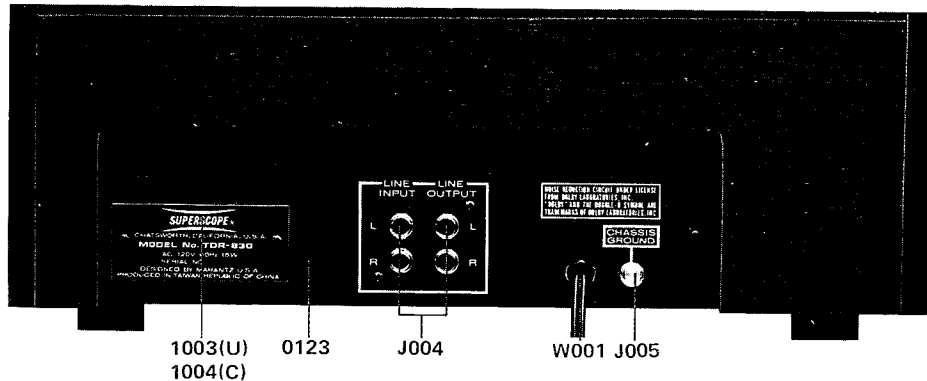
4.1 Front Panel View



4.2 Chassis Top View

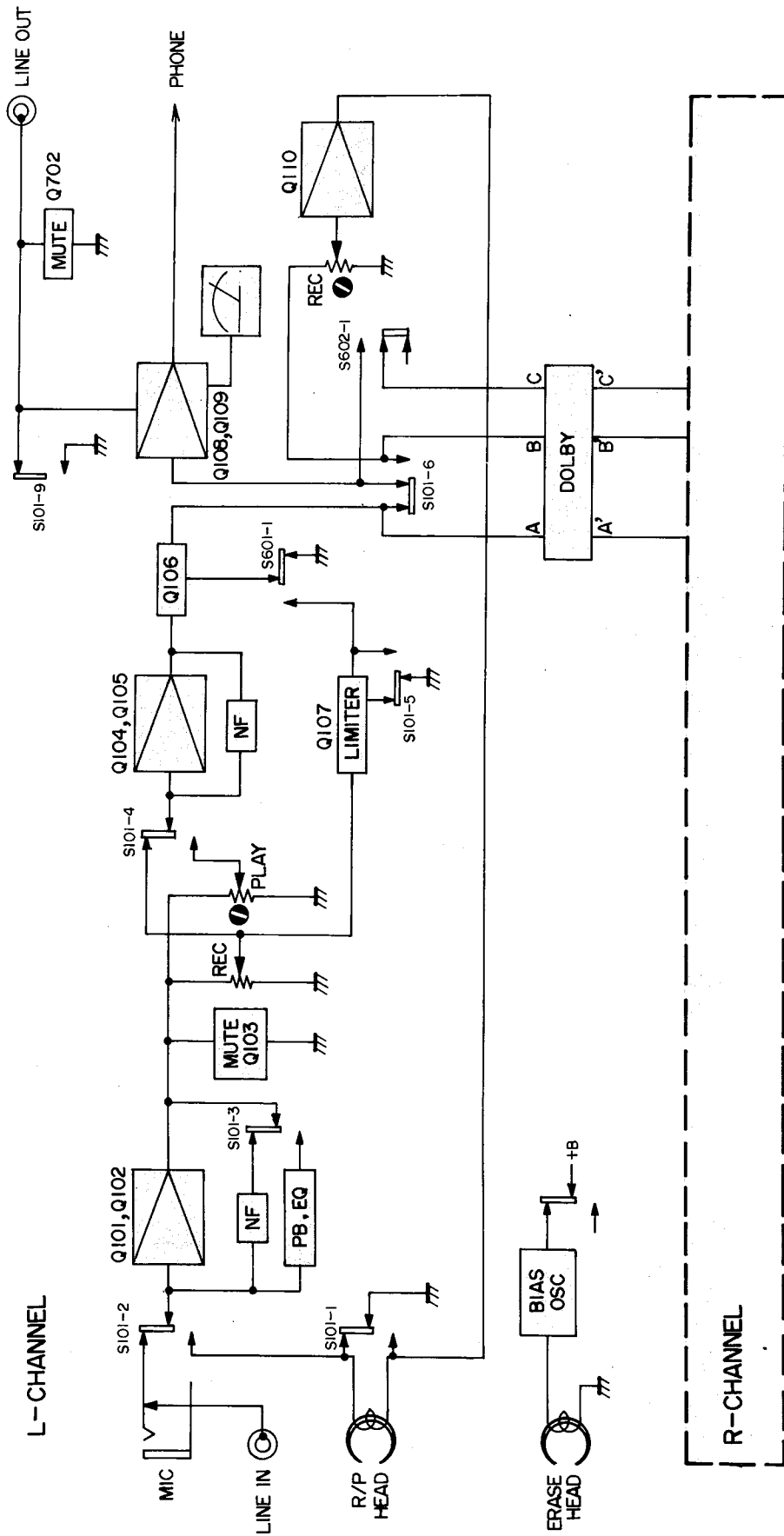


4.3 Rear Panel View



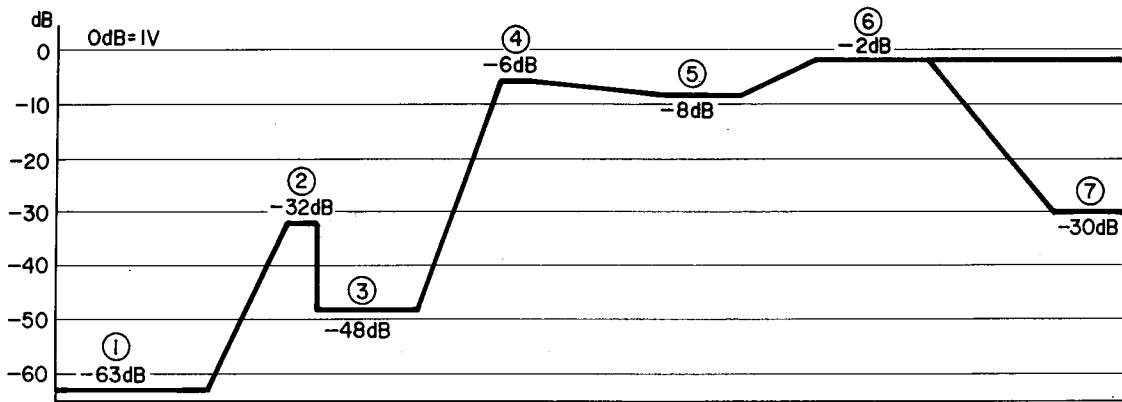
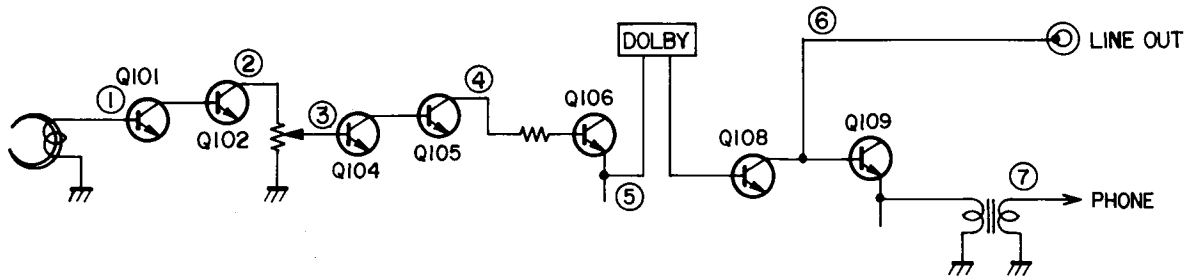


5. BLOCK DIAGRAM

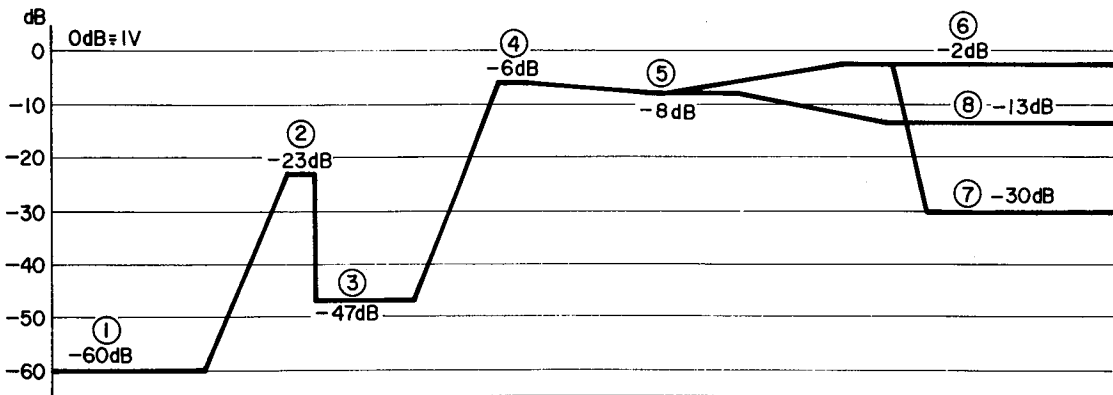
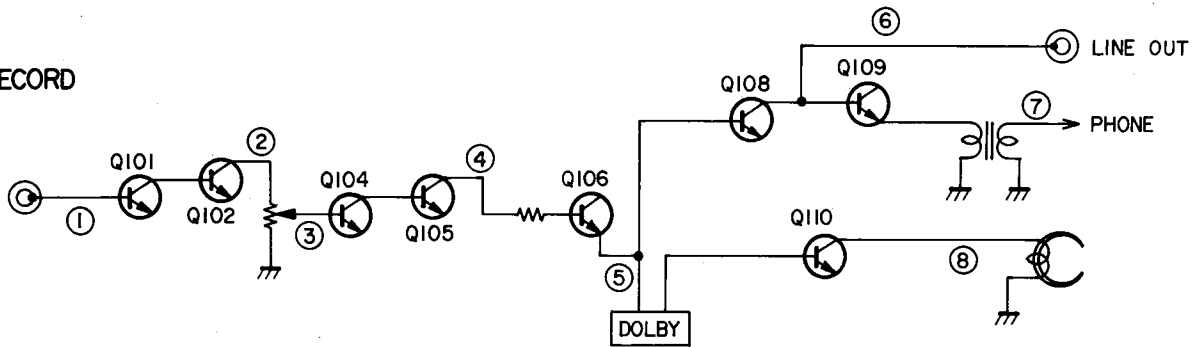


6. LEVEL DIAGRAM

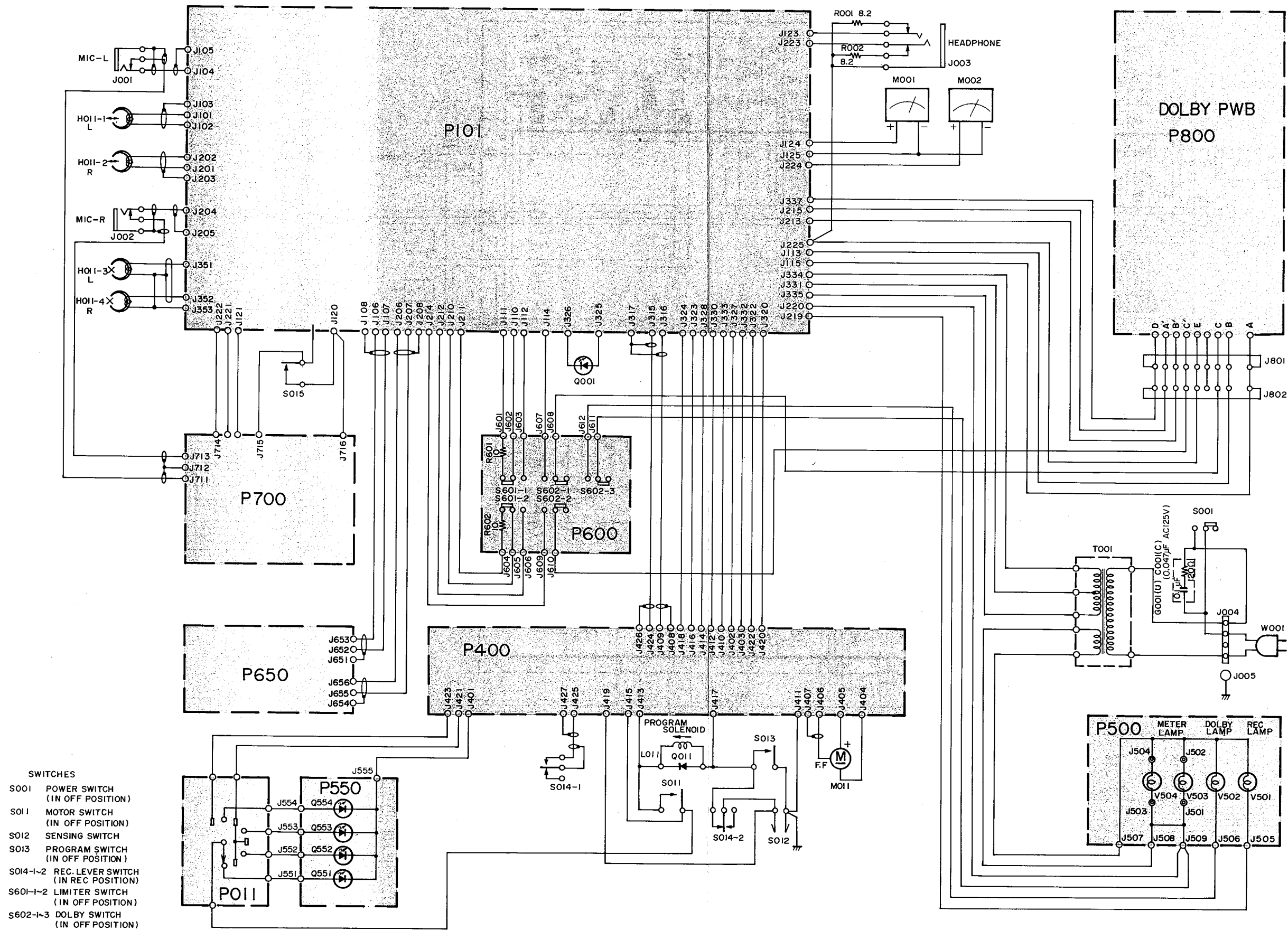
PLAY BACK



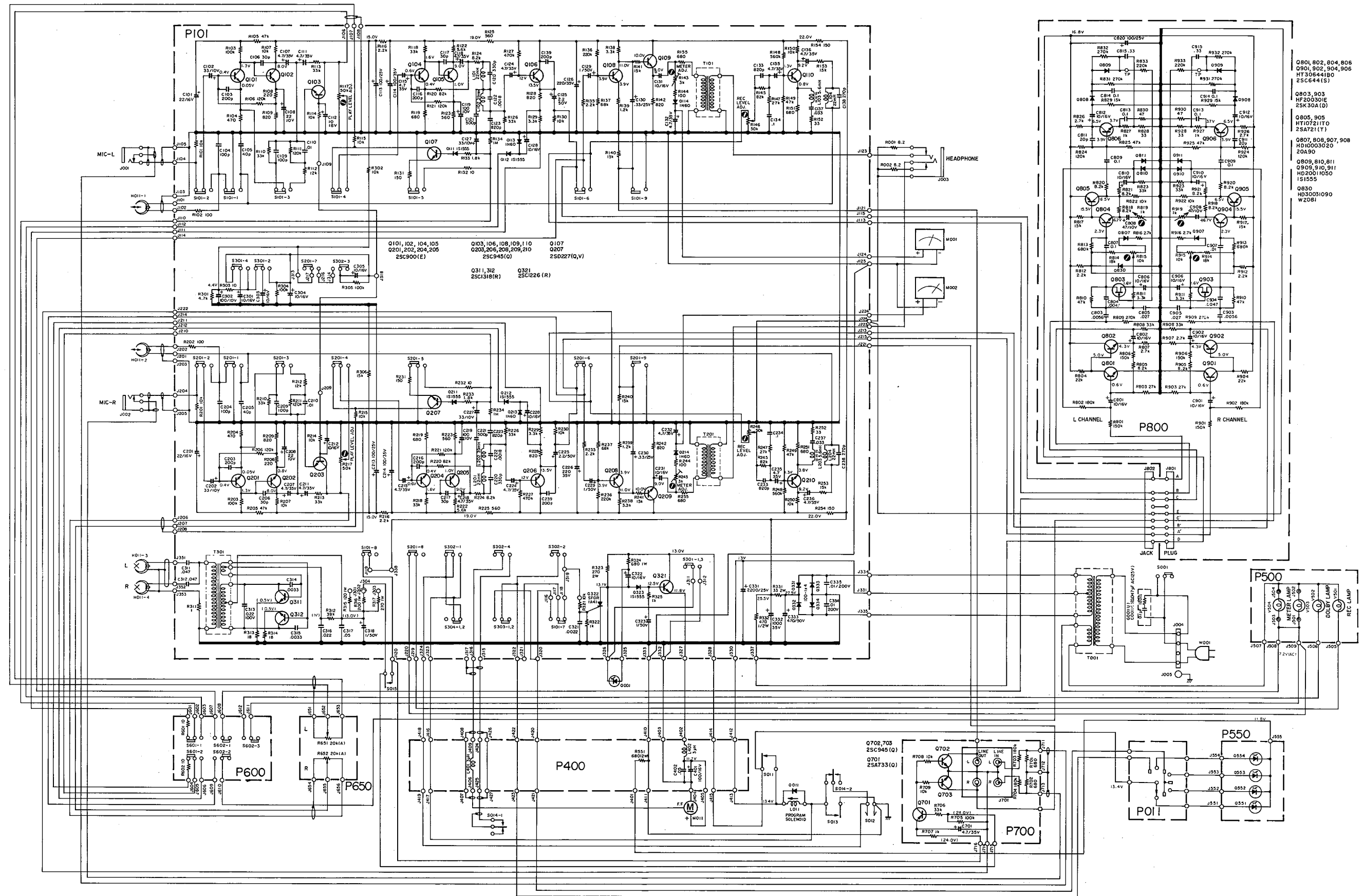
RECORD



7. CONNECTION DIAGRAM



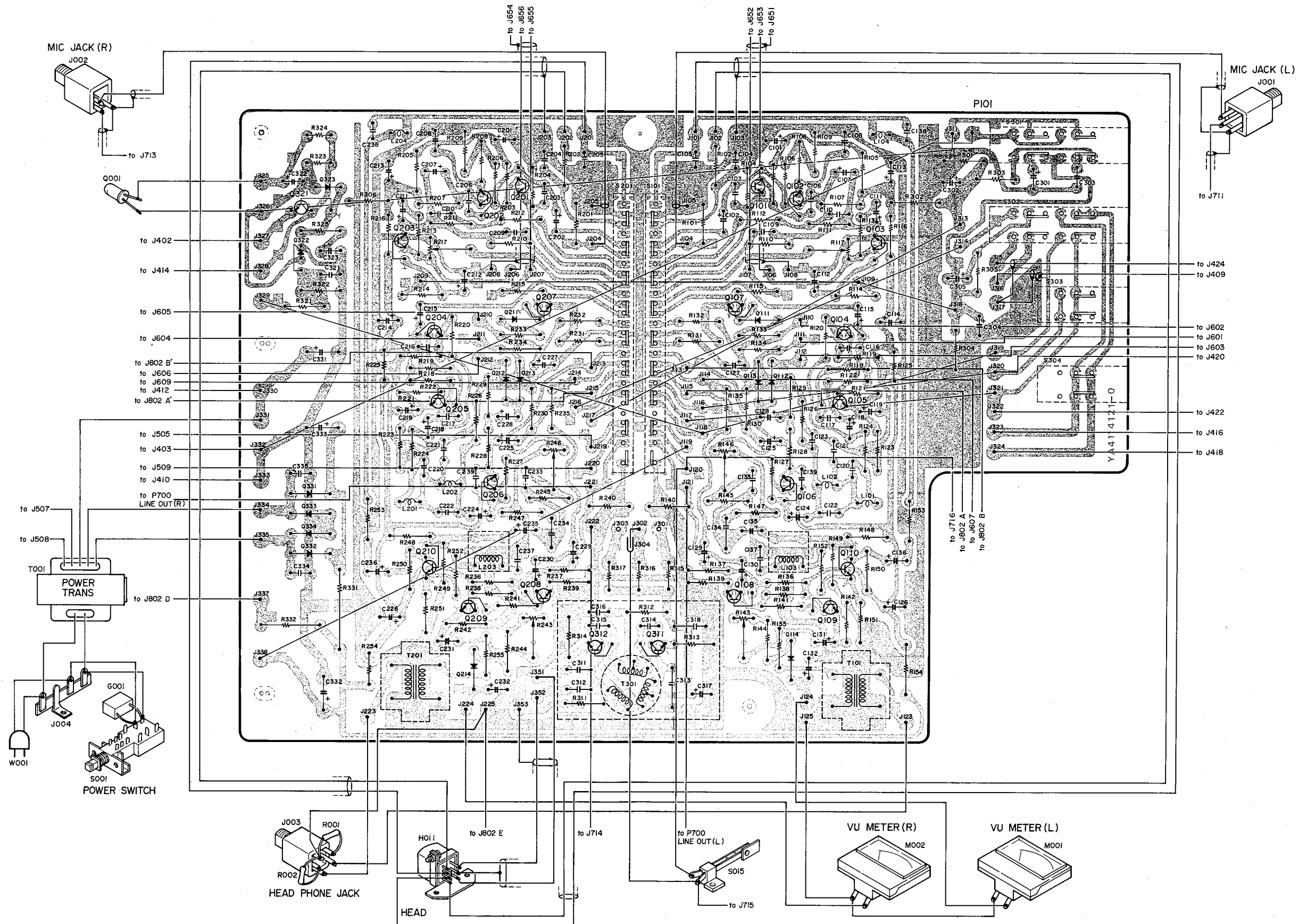
8. SCHEMATIC DIAGRAM



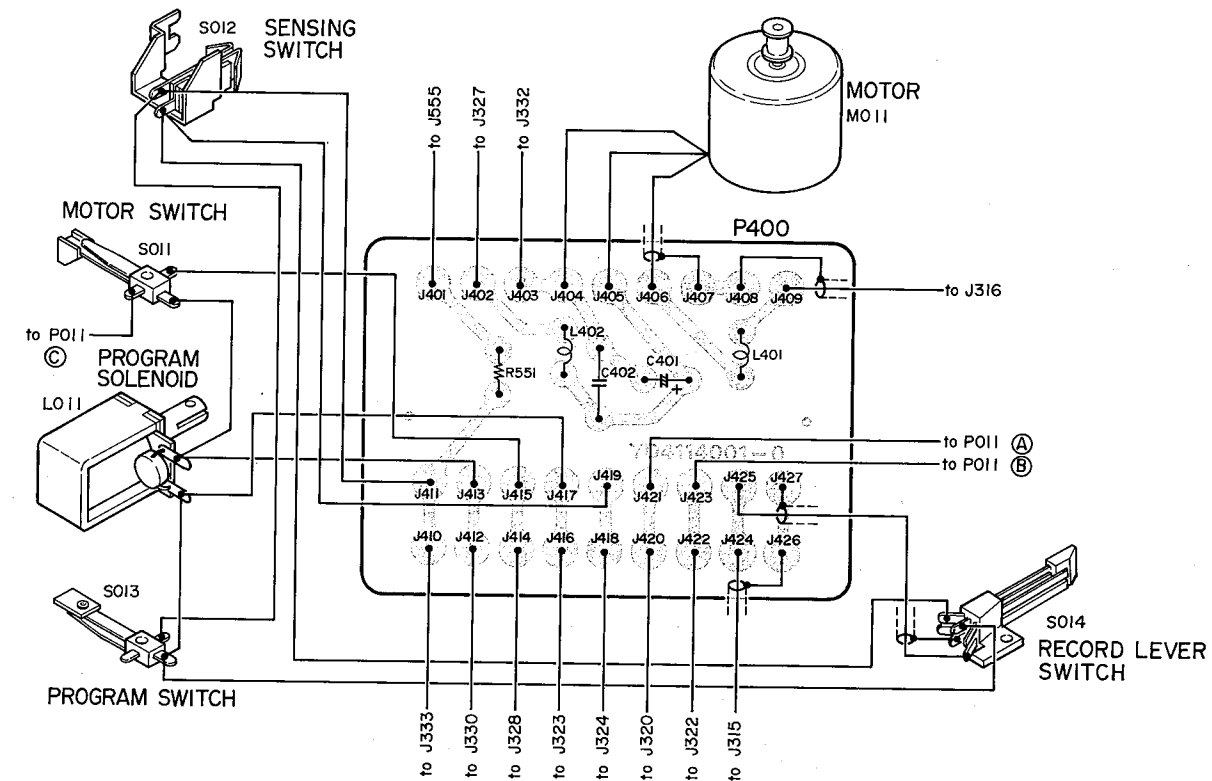
- Q801, 802, 804, 806
- Q901, 902, 904, 906
- HT308441B0
- 25C6441S1
- Q803, 803
- HF20301E
- 25K30A(0)
- Q805, 805
- HT107211T0
- 25SA71(T)
- Q807, 806, 807, 908
- HD10003020
- 20A90
- Q809, 810, 811
- Q909, 910, 911
- HD2001H050
- 151555
- Q830
- HD30031090
- W2081

### 9. CIRCUIT BOARD DIAGRAM

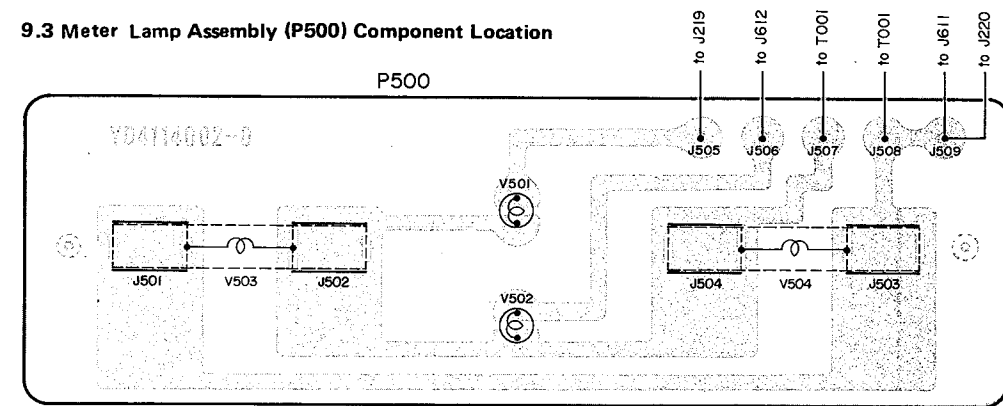
#### 9.1 Pri-Amp. Assembly (P101) Component Location



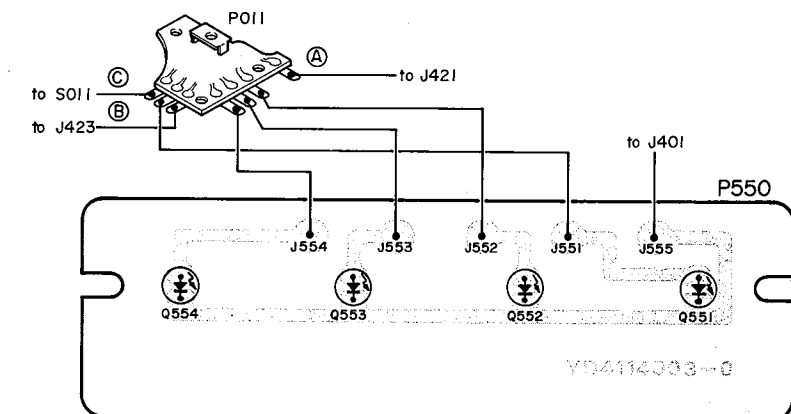
9.2 Motor Filter Assembly (P400) Component Location



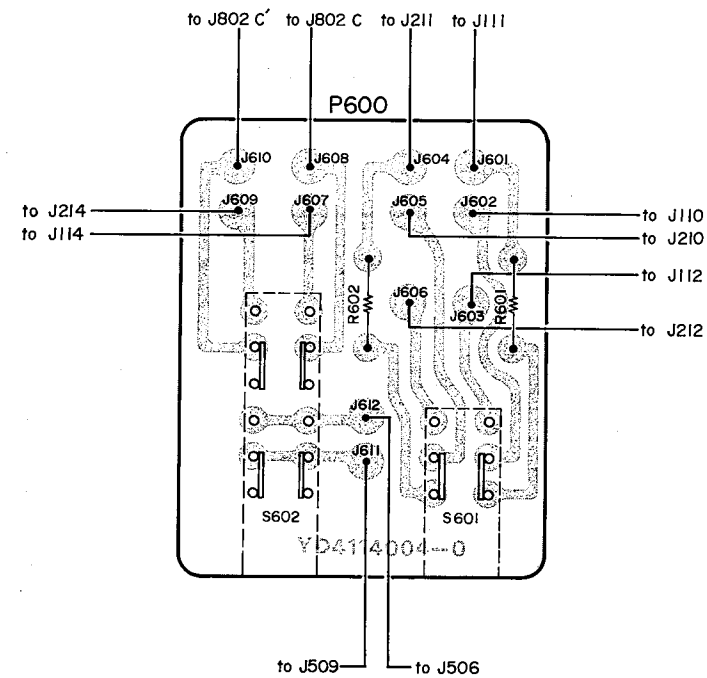
9.3 Meter Lamp Assembly (P500) Component Location



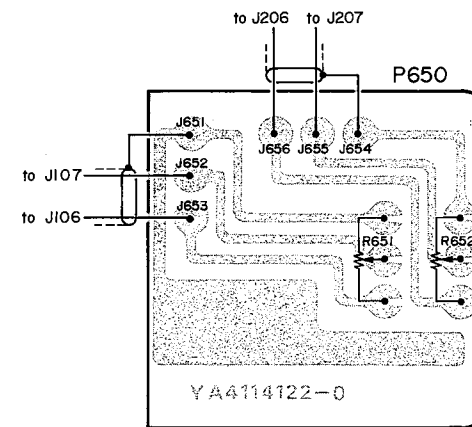
9.4 Program LED Assembly (P550) Component Location



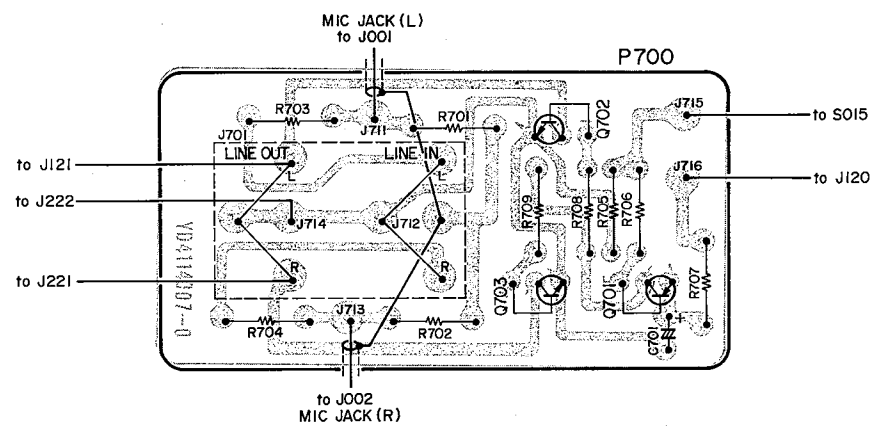
9.5 Limiter Assembly (P600) Component Location



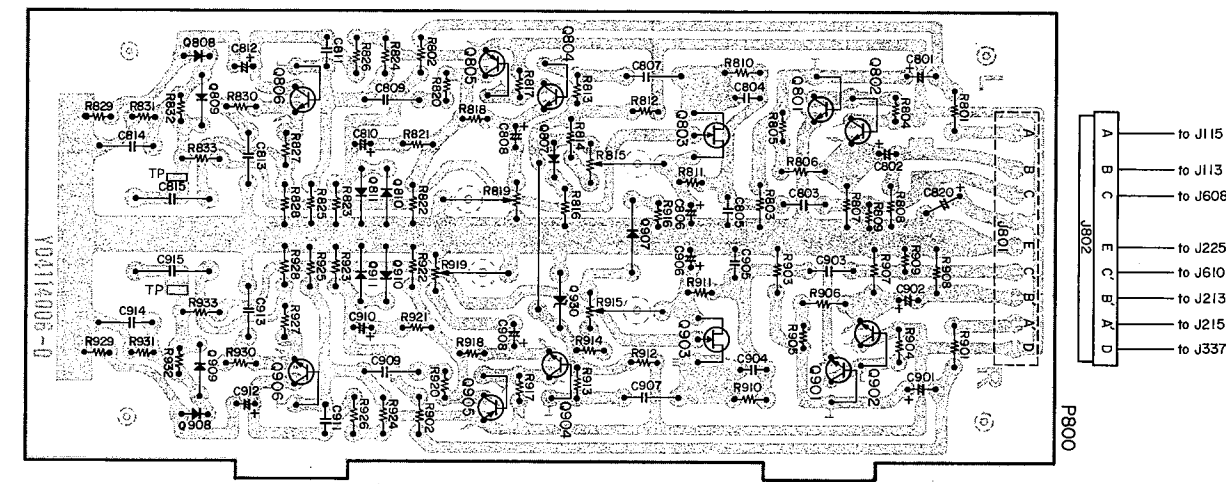
9.6 Rec. Volume Assembly (P650) Component Location



9.7 Line Out, Line In Jack Assembly (P700) Component Location

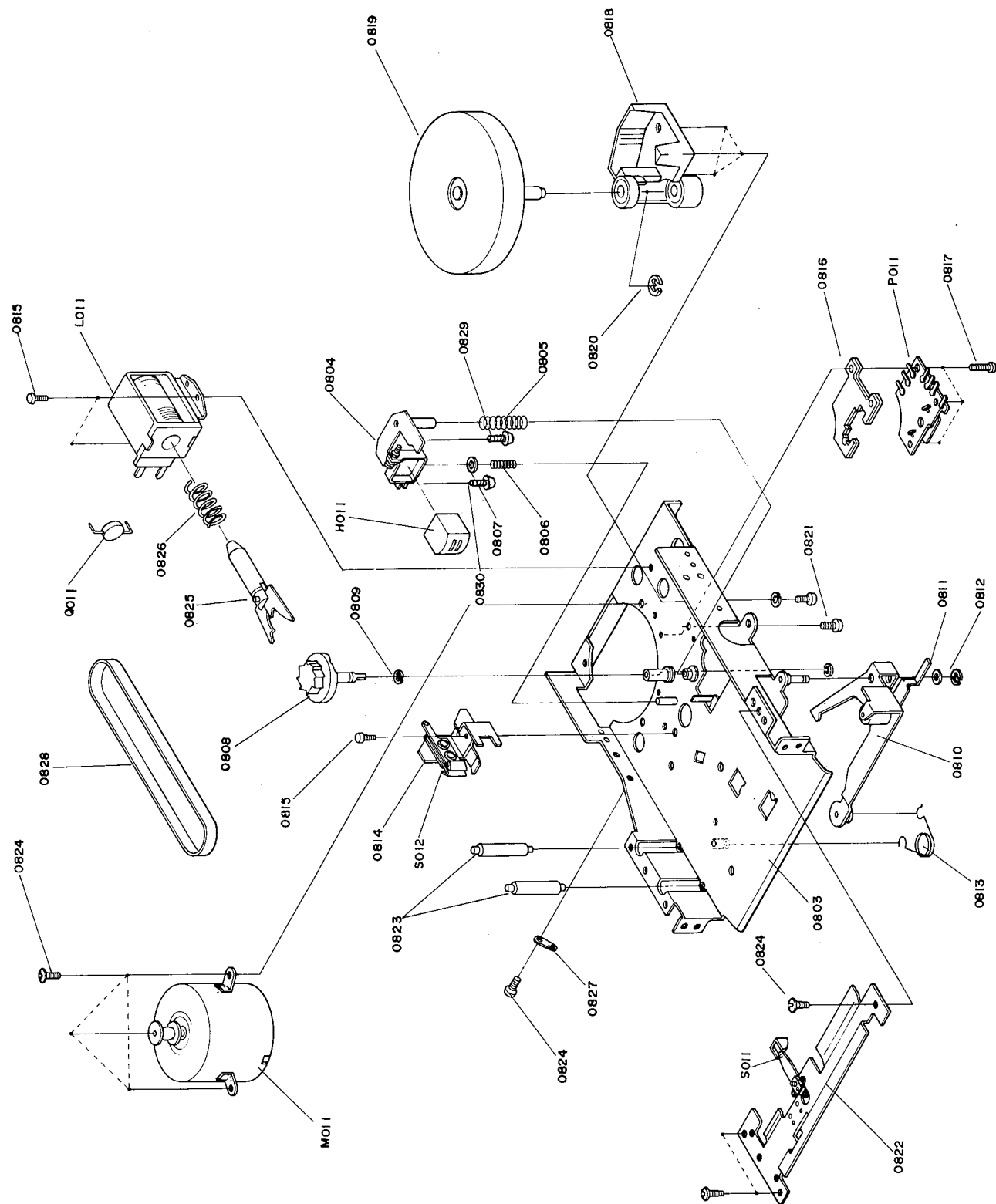


9.8 Dolby Assembly (P800) Component Location

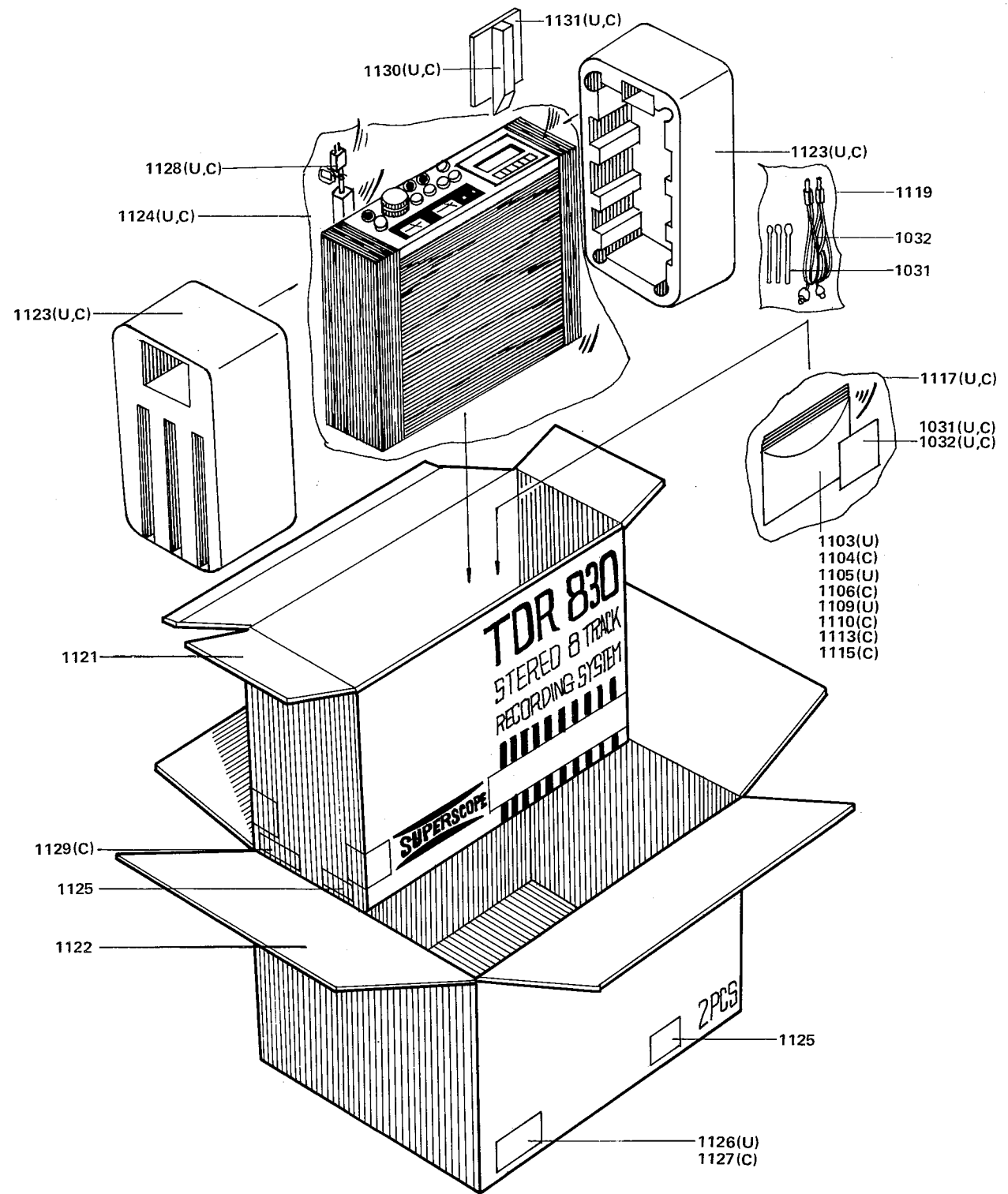




11.2 Tape Mechanism



12. PACKING MATERIAL EXPLODED VIEW



• (U) for U.S.A.  
• (C) for Canada



13. PARTS LIST

• (U) for U.S.A.  
• (C) for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
A	1	1	4114063400	Front Panel Assembly, Black
A1	1	1	4114063410	Front Panel Assembly, Gold
0104	1	1	4114063015	Escutcheon, Black
0105	1	1	4114063025	Escutcheon, Gold
0106	1	1	4114401012	Frame
0107	1	1	4114158012	Window
0108	7	7	4114259012	Bushing
0111	1	1	3910257012	Lid
0112	1	1	3910112010	Shaft
0113	1	1	3910115012	Spring
0132	1	1	4114063030	Escutcheon, Black
0133	1	1	4114063040	Escutcheon, Gold
0114	6	6	51100306A9	B.H.M. Screw, B3 x 6
0116	7	7	4114154010	Knob
0119	1	1	4114154052	Knob
0120	1	1	4114154062	Knob
0123	1	1	4114265010	Indicator
0124	1	1	51100306S9	B.H.M. Screw, B3 x 6
0128	1	1	4114064013	Case
0129	4	4	3906259010	Bushing
0130	4	4	51100416S9	B.H.M. Screw, B4 x 16
0203	1	1	4114160500	Bracket, K
0208	1	1	4114160040	Bracket
0209	2	2	51100306A9	B.H.M. Screw, B3 x 6
0210	1	1	62031340W0	Lug
0212	1	1	4114160050	Bracket
0213	1	1	51100306A9	B.H.M. Screw, B3 x 6
0216	1	1	4114104020	Retainer
0217	1	1	51100306A9	B.H.M. Screw, B3 x 6
0218	1	1	4114154040	Knob
0219	1	1	4114115020	Spring
0222	2	2	51100306A9	B.H.M. Screw, B3 x 6
0225	2	2	51100306A9	B.H.M. Screw, B3 x 6
0228	2	2	51100306A9	B.H.M. Screw, B3 x 6
0231	2	2	51100306A9	B.H.M. Screw, B3 x 6
0234	1	1	4114274012	Reflector
0235	2	2	51280306B0	B.H. Tapped Screw, B3 x 6
0301	1	1	4114265022	Indicator
0302	1	1	4114107010	Sheet
0303	2	2	2871053020	Cover
0304	2	2	2886107010	Sheet
0307	2	2	1382005030	Clamper
0308	2	2	51570306B0	P. Tapped Screw, P3 x 6
0311	1	1	4114271010	Holder
0314	2	2	51100306A9	B.H.M. Screw, B3 x 6
0315	4	4	51100406A9	B.H.M. Screw, B4 x 6
0403	1	1	4114105503	Chassis, K
0408	3	3	4114160080	Bracket

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
0409	4	4	51100306A9	B.H.M. Screw, B3 x 6
0410	1	1	3322109060	Shield
0411	3	3	51060306A9	P.H.M. Screw, P3 x 6
0412	1	1	4114257030	Lid
0413	4	4	51100306A9	B.H.M. Screw, B3 x 6
0416	1	1	3890257010	Lid
0417	1	1	51100306A9	B.H.M. Screw, B3 x 6
0420	1	1	3889160110	Bracket
0421	2	2	51100306A9	B.H.M. Screw, B3 x 6
0422	2	2	51100306A9	B.H.M. Screw, B3 x 6
0424	2	2	2886005030	Clamper
0427	4	4	3889057012	Leg
0428	4	4	51060412A9	P.H.M. Screw, P4 x 12
0431	2	2	51100408A9	B.H.M. Screw, B4 x 8
0434	2	2	2922005010	Clamper
0501	1	1	4114160060	Bracket
0502	2	2	51100306A9	B.H.M. Screw, B3 x 6
0503	2	2	51100306A9	B.H.M. Screw, B3 x 6
0506	1	1	1455259010	Bushing
0509	2	2	51280308U0	B.H. Tapped Screw, B3 x 8
0511	1	1	54020401E0	Flat Washer, P
0512	1	1	53110403A9	Hexagon Nut
0513	1	1	54050400R0	T.L. Washer, OR
0516	1	1	4114120010	Insulator
0517	1	1	51100306A9	B.H.M. Screw, B3 x 6
0518	1	1	53110303A9	Hexagon Nut
0519	1	1	54050300R0	T.L. Washer, OR
0602	1	1	4114160072	Bracket
0603	4	4	51300406B0	P.H. Tapped Screw, P4 x 6
0604	1	1	51470306A9	L. Washer Screw
0605	1	1	51100306A9	B.H.M. Screw, B3 x 6
0607	1	1	4114160022	Bracket
0608	2	2	51300406B0	P.H. Tapped Screw, P4 x 6
0609	1	1	51470306A9	L. Washer Screw
0610	1	1	1382005030	Clamper
0611	1	1	51100306A9	B.H.M. Screw, B3 x 6
0621	1	1	4114270012	Button
0622	1	1	4114354020	Lever
0623	1	1	4114112010	Shaft
0624	1	1	64000300R0	RG Ring, E Type
0625	1	1	4114115012	Spring
0628	1	1	4114354500	Lever, K
0632	2	2	64000300R0	RG Ring, E Type
0702	1	1	65000300R0	RG Ring, E Type
0703	1	1	4114002010	Arm
0706	1	1	4114160030	Bracket
0707	1	1	51100306A9	B.H.M. Screw, B3 x 6
0708	1	1	4114127010	Movement
0709	2	2	4114051012	Guide
0710	2	2	51040306A9	F.H.M. Screw, F3 x 6
0711	1	1	4114115030	Spring
0714	1	1	4114262012	Pulley
0715	1	1	4114264010	Belt
0718	1	1	4114052010	Counter
0719	2	2	51100306A9	B.H.M. Screw, B3 x 6
0721	1	1	4114104502	Retainer, K

• (U) for U.S.A.  
• (C) for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C				U	C		
0724	2	2	51470306A9	L. Washer Screw	1022		1	2911861140	Label, See Marking
0725	1	1	51100306A9	B.H.M. Screw, B3 x 6	1023		1	4113861020	Label, Caution
0726	2	2	1382005030	Clamper	1026	1	1	4114861010	Label, P.W.B. Adjust Point
0727	2	2	51570306B0	P. Tapped Screw, P3 x 6	1031	1	1	4113071010	Cleaner
0728	2	2	51060306A9	P.H.M. Screw, P3 x 6	1032	2	2	ZD01500170	Connective Cord
0729	1	1	51100306A9	B.H.M. Screw, B3 x 6	1103	1	1	4114851010	Instructions, Set
0730	1	1	51062606A0	P.H.M. Screw, P2.6 x 6	1104		1	4114851210	Instructions, Set
0801	1	1	PD20000040	Tape Mechanism Assembly	1105	1	1	2876851030	Instructions, Important
0803	1	1	3903105700	Chassis, S	1106		1	3917851020	Instructions, Important
0804	1	1	3910104700	Retainer, S	1107	1	1	9630000170	Guarantee Card
0805	1	1	3910115020	Spring	1108		1	9630000152	Guarantee Card
0806	1	1	3910115030	Spring	1109	1	1	3906854023	Guarantee Card
0807	1	1	54010300E0	Washer	1110		1	3917854012	Guarantee Card
0808	1	1	3910054700	Cam, S	1113		1	9650000050	Guarantee Card
0809	1	1	64000300R0	RG Ring, E Type	1115		1	2918813012	Paper Bag
0810	1	1	3903354700	Lever, S	1117	1	1	9011525010	Polyethylene Bag
0811	1	1	3903118010	Spacer	1118	1	1	9011325010	Polyethylene Bag
0812	1	1	64000400R0	RG Ring, E Type	1121	1	1	4114801010	Packing Case
0813	1	1	3903115030	Spring	1122	1	1	4114805010	Master Carton
0814	1	1	3903123700	Contact, S	1123	2	2	4114803010	Cushion, Set
0815	4	4	51380308B0	P.H. Tapped Screw, P3 x 8	1124	1	1	9013835300	Polyethylene Bag
0816	2	2	3910120010	Insulator	1125	2	2	9522815010	Serial No. Card
0817	3	3	51380310B0	P.H. Tapped Screw, P3 x 10	1126	1	1	9510911040	Label
0818	1	1	3910106700	Bearing, S	1127		1	9510911050	Label
0819	1	1	3903273700	Flywheel, S	1128	1	1	1029804010	Sleeve
0820	1	1	3910005010	Clamper	1129	2	2	9510901020	Label
0821	3	3	51440408A9	P.H.M. Screw, P4 x 8	1130	1	1	3890803010	Cushion, Head Holder
0822	1	1	3903160700	Bracket, S	1131	1	1	3903803030	Cushion, Head Holder
0823	2	2	3910358010	Roller					<b>P101 MAIN BOARD</b>
0824	7	7	51320308B0	R.H. Tapped Screw, R3 x 8	P101	1	1	YA41141210	P.W. Board
0825	1	1	3910161700	Ferric Core, S		1	1	ZZ41141210	P.W. Board Assembly
0826	1	1	3910115050	Spring	P107	14	14	3444118050	Spacer
0827	1	1	62031650W0	Lug	P108	2	2	2933118020	Spacer
0828	1	1	3903264010	Belt	P109	7	7	2933118010	Spacer
0829	1	1	3910112020	Shaft	S101	1	1	SS09020070	Slide Switch
0830	1	1	3910112030	Shaft	S201	1	1	SS09020070	Slide Switch
1003	1		4114265030	Indicator	S301	1	1	SP04040150	Push Switch, with S302 ~ S304
1004	1	1	4114265040	Indicator	L101	1	1	LC22260040	Choke Coil, 22 mH MPX Filter
1010	2	2	51100306S9	B.H.M. Screw, B3 x 6	L201	1	1	LC22260040	Choke Coil, 22 mH MPX Filter
1014	1		9511201080	Label, UL	L102	1	1	LC23960020	Choke Coil, 39 mH MPX Filter
1015	1		9510911020	Label, UL Factory	L202	1	1	LC23960020	Choke Coil, 39 mH MPX Filter
1016	1	1	2457861040	Label, CSA	L103	1	1	LC25650030	Choke Coil, 5.6 mH
1017	1	1	9510911010	Label, LL No.	L203	1	1	LC25650030	Choke Coil, 5.6 mH
1018	1		2818861010	Label, Imitation	L104	1	1	LC22260010	Choke Coil, 22 mH
1019	1	1	9510911050	Label, Produced in Taiwan	L204	1	1	LC22260010	Choke Coil, 22 mH
1020	1		2932861010	Label, See Marking	T101	1	1	TO11905040	Output Transformer
1021	1		3889861010	Label, Caution	T201	1	1	TO11905040	Output Transformer
					T301	1	1	TC10180080	Osc. Transformer
					J101	139	139	YP10001130	Plug
					J301	1	1	YP10001090	Plug
					J302	1	1	YP10001090	Plug
					J303	1	1	YP10001090	Plug
					J304	1	1	YB00200270	Connective Cord
					Q101	1	1	HT309001E0	Transistor, 2SC900 (E)
					Q201	1	1	HT309001E0	Transistor, 2SC900 (E)

• (U) for U.S.A.  
• (C) for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
Q102	1	1	HT309001E0	Transistor, 2SC900 (E)
Q202	1	1	HT309001E0	Transistor, 2SC900 (E)
Q103	1	1	HT309451Q0	Transistor, 2SC945 (Q)
Q203	1	1	HT309451Q0	Transistor, 2SC945 (Q)
Q104	1	1	HT309001E0	Transistor, 2SC900 (E)
Q204	1	1	HT309001E0	Transistor, 2SC900 (E)
Q105	1	1	HT309001E0	Transistor, 2SC900 (E)
Q205	1	1	HT309001E0	Transistor, 2SC900 (E)
Q106	1	1	HT309451Q0	Transistor, 2SC945 (Q)
Q206	1	1	HT309451Q0	Transistor, 2SC945 (Q)
Q107	1	1	HT402272A0	Transistor, 2SD227 (Q, V)
Q207	1	1	HT402272A0	Transistor, 2SD227 (Q, V)
Q108	1	1	HT309451Q0	Transistor, 2SC945 (Q)
Q208	1	1	HT309451Q0	Transistor, 2SC945 (Q)
Q109	1	1	HT309451Q0	Transistor, 2SC945 (Q)
Q209	1	1	HT309451Q0	Transistor, 2SC945 (Q)
Q110	1	1	HT309451Q0	Transistor, 2SC945 (Q)
Q210	1	1	HT309451Q0	Transistor, 2SC945 (Q)
Q111	1	1	HD20011050	Diode, 1S1555
Q211	1	1	HD20011050	Diode, 1S1555
Q112	1	1	HD20011050	Diode, 1S1555
Q212	1	1	HD20011050	Diode, 1S1555
Q113	1	1	HD10001050	Diode, 1N60
Q213	1	1	HD10001050	Diode, 1N60
Q114	1	1	HD10001050	Diode, 1N60
Q214	1	1	HD10001050	Diode, 1N60
Q311	1	1	HT313181R0	Transistor, 2SC1318 (R)
Q312	1	1	HT313181R0	Transistor, 2SC1318 (R)
Q321	1	1	HT312261R0	Transistor, 2SC1226 (R)
Q322	1	1	HB00001050	Thyristor, S.C.R. SFOR. 1A41
Q323	1	1	HD20011050	Diode, 1S1555
Q331	1	1	HD20013100	Diode, 10D-1
Q332	1	1	HD20013100	Diode, 10D-1
Q333	1	1	HD20013100	Diode, 10D-1
Q334	1	1	HD20013100	Diode, 10D-1
R101	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R201	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R102	1	1	GD05101140	Resistor, 100Ω ±5% ¼W
R202	1	1	GD05101140	Resistor, 100Ω ±5% ¼W
R103	1	1	GD05104140	Resistor, 100kΩ ±5% ¼W
R203	1	1	GD05104140	Resistor, 100kΩ ±5% ¼W
R104	1	1	GD05471140	Resistor, 470Ω ±5% ¼W
R204	1	1	GD05471140	Resistor, 470Ω ±5% ¼W
R105	1	1	GD05473140	Resistor, 47kΩ ±5% ¼W
R205	1	1	GD05473140	Resistor, 47kΩ ±5% ¼W
R106	1	1	GD05124140	Resistor, 120kΩ ±5% ¼W
R206	1	1	GD05124140	Resistor, 120kΩ ±5% ¼W
R107	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R207	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R108	1	1	GD05221140	Resistor, 220Ω ±5% ¼W
R208	1	1	GD05221140	Resistor, 220Ω ±5% ¼W
R109	1	1	GD05821140	Resistor, 820Ω ±5% ¼W
R209	1	1	GD05821140	Resistor, 820Ω ±5% ¼W
R110	1	1	GD05333140	Resistor, 33kΩ ±5% ¼W
R210	1	1	GD05333140	Resistor, 33kΩ ±5% ¼W
R111	1	1	GD05124140	Resistor, 120kΩ ±5% ¼W
R211	1	1	GD05124140	Resistor, 120kΩ ±5% ¼W

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
R112	1	1	GD05123140	Resistor, 12kΩ ±5% ¼W
R212	1	1	GD05123140	Resistor, 12kΩ ±5% ¼W
R113	1	1	GD05333140	Resistor, 33kΩ ±5% ¼W
R213	1	1	GD05333140	Resistor, 33kΩ ±5% ¼W
R114	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R214	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R115	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R215	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R116	1	1	GD05222140	Resistor, 2.2kΩ ±5% ¼W
R216	1	1	GD05222140	Resistor, 2.2kΩ ±5% ¼W
R117	1	1	RA05030090	Trimming Resistor, 50kΩ
R217	1	1	RA05030090	Trimming Resistor, 50kΩ
R118	1	1	GD05333140	Resistor, 33kΩ ±5% ¼W
R218	1	1	GD05333140	Resistor, 33kΩ ±5% ¼W
R119	1	1	GD05681140	Resistor, 680Ω ±5% ¼W
R219	1	1	GD05681140	Resistor, 680Ω ±5% ¼W
R120	1	1	GD05823140	Resistor, 82kΩ ±5% ¼W
R220	1	1	GD05823140	Resistor, 82kΩ ±5% ¼W
R121	1	1	GD05124140	Resistor, 120kΩ ±5% ¼W
R221	1	1	GD05124140	Resistor, 120kΩ ±5% ¼W
R122	1	1	GD05562140	Resistor, 5.6kΩ ±5% ¼W
R222	1	1	GD05562140	Resistor, 5.6kΩ ±5% ¼W
R123	1	1	GD05561140	Resistor, 560Ω ±5% ¼W
R223	1	1	GD05561140	Resistor, 560Ω ±5% ¼W
R124	1	1	GD05822140	Resistor, 8.2kΩ ±5% ¼W
R224	1	1	GD05822140	Resistor, 8.2kΩ ±5% ¼W
R125	1	1	GF05561140	Resistor, 560Ω ±5% ¼W
R225	1	1	GF05561140	Resistor, 560Ω ±5% ¼W
R126	1	1	GD05333140	Resistor, 33kΩ ±5% ¼W
R226	1	1	GD05333140	Resistor, 33kΩ ±5% ¼W
R127	1	1	GD05474140	Resistor, 470kΩ ±5% ¼W
R227	1	1	GD05474140	Resistor, 470kΩ ±5% ¼W
R128	1	1	GD05821140	Resistor, 820Ω ±5% ¼W
R228	1	1	GD05821140	Resistor, 820Ω ±5% ¼W
R129	1	1	GD05332140	Resistor, 3.3kΩ ±5% ¼W
R229	1	1	GD05332140	Resistor, 3.3kΩ ±5% ¼W
R130	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R230	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R131	1	1	GD05151140	Resistor, 150Ω ±5% ¼W
R231	1	1	GD05151140	Resistor, 150Ω ±5% ¼W
R132	1	1	GD05100140	Resistor, 10Ω ±5% ¼W
R232	1	1	GD05100140	Resistor, 10Ω ±5% ¼W
R133	1	1	GD05182140	Resistor, 1.8kΩ ±5% ¼W
R233	1	1	GD05182140	Resistor, 1.8kΩ ±5% ¼W
R134	1	1	GD05105140	Resistor, 1MΩ ±5% ¼W
R234	1	1	GD05105140	Resistor, 1MΩ ±5% ¼W
R135	1	1	GD05222140	Resistor, 2.2kΩ ±5% ¼W
R235	1	1	GD05222140	Resistor, 2.2kΩ ±5% ¼W
R136	1	1	GD05224140	Resistor, 220kΩ ±5% ¼W
R236	1	1	GD05224140	Resistor, 220kΩ ±5% ¼W
R137	1	1	GD05683140	Resistor, 68kΩ ±5% ¼W
R237	1	1	GD05683140	Resistor, 68kΩ ±5% ¼W
R138	1	1	GD05332140	Resistor, 3.3kΩ ±5% ¼W
R238	1	1	GD05332140	Resistor, 3.3kΩ ±5% ¼W
R139	1	1	GD05122140	Resistor, 1.2kΩ ±5% ¼W
R239	1	1	GD05122140	Resistor, 1.2kΩ ±5% ¼W
R140	1	1	GD05153140	Resistor, 15kΩ ±5% ¼W

• (U) for U.S.A.  
• (C) for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
R240	1	1	GD05153140	Resistor, 15kΩ ±5% ¼W
R141	1	1	GD05153140	Resistor, 15kΩ ±5% ¼W
R241	1	1	GD05153140	Resistor, 15kΩ ±5% ¼W
R142	1	1	GD05821140	Resistor, 820Ω ±5% ¼W
R242	1	1	GD05821140	Resistor, 820Ω ±5% ¼W
R143	1	1	RA03020030	Trimming Resistor, 3kΩ
R243	1	1	RA03020030	Trimming Resistor, 3kΩ
R144	1	1	GD05101140	Resistor, 100Ω ±5% ¼W
R244	1	1	GD05101140	Resistor, 100Ω ±5% ¼W
R145	1	1	GD05823140	Resistor, 82kΩ ±5% ¼W
R245	1	1	GD05823140	Resistor, 82kΩ ±5% ¼W
R146	1	1	RA05030090	Trimming Resistor, 50kΩ
R246	1	1	RA05030090	Trimming Resistor, 50kΩ
R147	1	1	GD05273140	Resistor, 27kΩ ±5% ¼W
R247	1	1	GD05273140	Resistor, 27kΩ ±5% ¼W
R148	1	1	GD05564140	Resistor, 560kΩ ±5% ¼W
R248	1	1	GD05564140	Resistor, 560kΩ ±5% ¼W
R149	1	1	GD05473140	Resistor, 47kΩ ±5% ¼W
R249	1	1	GD05473140	Resistor, 47kΩ ±5% ¼W
R150	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R250	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R151	1	1	GD05681140	Resistor, 680Ω ±5% ¼W
R251	1	1	GD05681140	Resistor, 680Ω ±5% ¼W
R152	1	1	GD05330140	Resistor, 33Ω ±5% ¼W
R252	1	1	GD05330140	Resistor, 33Ω ±5% ¼W
R153	1	1	GD05153140	Resistor, 15kΩ ±5% ¼W
R253	1	1	GD05153140	Resistor, 15kΩ ±5% ¼W
R154	1	1	GF05151140	Resistor, 150Ω ±5% ¼W
R254	1	1	GF05151140	Resistor, 150Ω ±5% ¼W
R155	1	1	GD05681140	Resistor, 680Ω ±5% ¼W
R255	1	1	GD05681140	Resistor, 680Ω ±5% ¼W
R301	1	1	GD05472140	Resistor, 4.7kΩ ±5% ¼W
R302	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R303	1	1	GD05100140	Resistor, 10Ω ±5% ¼W
R304	1	1	GD05104140	Resistor, 100kΩ ±5% ¼W
R305	1	1	GD05104140	Resistor, 100kΩ ±5% ¼W
R306	1	1	GD05153140	Resistor, 15kΩ ±5% ¼W
R311	1	1	GD05010140	Resistor, 1Ω ±5% ¼W
R312	1	1	GD05393140	Resistor, 39kΩ ±5% ¼W
R313	1	1	GD05180140	Resistor, 18Ω ±5% ¼W
R314	1	1	GD05180140	Resistor, 18Ω ±5% ¼W
R315	1	1	GJ05121010	Resistor, 120Ω ±5% 1W
R316	1	1	GJ05201010	Resistor, 200Ω ±5% 1W
R317	1	1	GJ05271010	Resistor, 270Ω ±5% 1W
R321	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R322	1	1	GD05102140	Resistor, 1kΩ ±5% ¼W
R323	1	1	GJ05271020	Resistor, 270Ω ±5% 2W
R324	1	1	GJ05681010	Resistor, 680Ω ±5% 1W
R325	1	1	GD05102140	Resistor, 1kΩ ±5% ¼W
R331	1	1	GJ05330020	Resistor, 33Ω ±5% 2W
R332	1	1	GF05471120	Resistor, 470Ω ±5% ½W
C101	1	1	EA22601690	Electrolytic Cap., 22μF 16V
C201	1	1	EA22601690	Electrolytic Cap., 22μF 16V
C102	1	1	EE33601050	Electrolytic Cap., 33μF 10V
C202	1	1	EE33601050	Electrolytic Cap., 33μF 10V
C103	1	1	DD16201010	Ceramic Cap., 200pF ±10% 50V
C203	1	1	DD16201010	Ceramic Cap., 200pF ±10% 50V

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
C104	1	1	DF55101510	Film Cap., 100pF ±5%
C204	1	1	DF55101510	Film Cap., 100pF ±5%
C105	1	1	DD15400010	Film Cap., 40pF ±5%
C205	1	1	DD15400010	Film Cap., 40pF ±5%
C106	1	1	DD16300010	Ceramic Cap., 30pF ±10% 50V
C206	1	1	DD16300010	Ceramic Cap., 30pF ±10% 50V
C107	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C207	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C108	1	1	EA22601090	Electrolytic Cap., 22μF 10V
C208	1	1	EA22601090	Electrolytic Cap., 22μF 10V
C109	1	1	DD16101010	Ceramic Cap., 100pF ±10% 50V
C209	1	1	DD16101010	Ceramic Cap., 100pF ±10% 50V
C110	1	1	DF16103010	Film Cap., 0.01μF ±10% 50V
C210	1	1	DF16103010	Film Cap., 0.01μF ±10% 50V
C111	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C211	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C112	1	1	EA10601690	Electrolytic Cap., 10μF 16V
C212	1	1	EA10601690	Electrolytic Cap., 10μF 16V
C113	1	1	EA10702590	Electrolytic Cap., 100μF 25V
C213	1	1	EA10702590	Electrolytic Cap., 100μF 25V
C114	1	1	EA10703590	Electrolytic Cap., 100μF 35V
C214	1	1	EA10703590	Electrolytic Cap., 100μF 35V
C115	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C215	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C116	1	1	DD16201010	Ceramic Cap., 200pF ±10% 50V
C216	1	1	DD16201010	Ceramic Cap., 200pF ±10% 50V
C117	1	1	DD16300010	Ceramic Cap., 30pF ±10% 50V
C217	1	1	DD16300010	Ceramic Cap., 30pF ±10% 50V
C118	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C218	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C119	1	1	EA10701090	Electrolytic Cap., 100μF 10V
C219	1	1	EA10701090	Electrolytic Cap., 100μF 10V
C120	1	1	DF55331510	Film Cap., 330pF ±5%
C220	1	1	DF55331510	Film Cap., 330pF ±5%
C121	1	1	DF55511510	Film Cap., 510pF ±5%
C221	1	1	DF55511510	Film Cap., 510pF ±5%
C122	1	1	DF15182010	Film Cap., 0.0018μF ±5% 50V
C222	1	1	DF15182010	Film Cap., 0.0018μF ±5% 50V
C123	1	1	DF55821510	Film Cap., 820pF ±5%
C223	1	1	DF55821510	Film Cap., 820pF ±5%
C124	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C224	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C125	1	1	EA22505090	Electrolytic Cap., 2.2μF 50V
C225	1	1	EA22505090	Electrolytic Cap., 2.2μF 50V
C126	1	1	EA22703590	Electrolytic Cap., 220μF 35V
C226	1	1	EA22703590	Electrolytic Cap., 220μF 35V
C127	1	1	EA33601090	Electrolytic Cap., 33μF 10V
C227	1	1	EA33601090	Electrolytic Cap., 33μF 10V
C128	1	1	EA10601690	Electrolytic Cap., 10μF 16V
C228	1	1	EA10601690	Electrolytic Cap., 10μF 16V
C129	1	1	EA10505090	Electrolytic Cap., 1μF 50V
C229	1	1	EA10505090	Electrolytic Cap., 1μF 50V
C130	1	1	EV33403560	Electrolytic Cap., 0.33μF 35V
C230	1	1	EV33403560	Electrolytic Cap., 0.33μF 35V
C131	1	1	EA10601690	Electrolytic Cap., 10μF 16V
C231	1	1	EA10601690	Electrolytic Cap., 10μF 16V
C132	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V

• (U) for U.S.A.  
• (C) for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
C232	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C133	1	1	DF55821510	Film Cap., 820pF ±5%
C233	1	1	DF55821510	Film Cap., 820pF ±5%
C234	1	1	DF16104010	Film Cap., 0.1μF ±10% 50V
C234	1	1	DF16104010	Film Cap., 0.1μF ±10% 50V
C135	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C235	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C136	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C236	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
C137	1	1	DF16333010	Film Cap., 0.033μF ±10% 50V
C237	1	1	DF16333010	Film Cap., 0.033μF ±10% 50V
C138	1	1	DF55271510	Film Cap., 270pF ±5%
C238	1	1	DF55271510	Film Cap., 270pF ±5%
C139	1	1	DD16201010	Ceramic Cap., 200pF ±10%
C239	1	1	DD16201010	Ceramic Cap., 200pF ±10%
C301	1	1	EE10601650	Electrolytic Cap., 10μF 16V
C302	1	1	EA10701090	Electrolytic Cap., 100μF 10V
C303	1	1	EE10601650	Electrolytic Cap., 10μF 16V
C304	1	1	EE10601650	Electrolytic Cap., 10μF 16V
C305	1	1	EA10601690	Electrolytic Cap., 10μF 16V
C311	1	1	DF16473010	Film Cap., 0.047μF ±10% 50V
C312	1	1	DF16473010	Film Cap., 0.047μF ±10% 50V
C313	1	1	DF16223510	Film Cap., 0.022μF ±10% 100V
C314	1	1	DF16332010	Film Cap., 0.0033μF ±10% 50V
C315	1	1	DF16332010	Film Cap., 0.0033μF ±10% 50V
C316	1	1	DF16223010	Film Cap., 0.022μF ±10% 50V
C317	1	1	DK18503010	Ceramic Cap., 0.05μF 50V
C318	1	1	EE10505050	Electrolytic Cap., 1μF 50V
C321	1	1	DF16222010	Film Cap., 0.0022μF ±10% 50V
C322	1	1	EA10601690	Electrolytic Cap., 10μF 16V
C323	1	1	EA10505090	Electrolytic Cap., 1μF 50V
C331	1	1	EA22802590	Electrolytic Cap., 2200μF 25V
C332	1	1	EA10803590	Electrolytic Cap., 1000μF 35V
C333	1	1	EA47705090	Electrolytic Cap., 470μF 50V
C334	1	1	DF16103500	Film Cap., 0.01μF 200V
C335	1	1	DF16103500	Film Cap., 0.01μF 200V
<b>P400 MOTOR FILTER BOARD</b>				
P400	1	1	YD41140010	P.W. Board
	1	1	ZZ41140010	P.W. Board Assembly
P407	1	1	3444118050	Spacer
P408	2	2	2933118020	Spacer
L401	1	1	LC13020010	Choke Coil
L402	1	1	LC13020010	Choke Coil
C401	1	1	EA10701690	Electrolytic Cap., 100μF 16V
C402	1	1	DK18503010	Ceramic Cap., 0.05μF 50V
R401	1	1	GJ05681020	Resistor, 680Ω ±5% 2W
<b>P500 METER LAMP BOARD</b>				
P500	1	1	YD41140020	P.W. Board
	1	1	ZZ41140020	P.W. Board Assembly
V501	1	1	IN10080390	Lamp
V502	1	1	IN10080390	Lamp
V503	1	1	IN10080070	Lamp
V504	1	1	IN10080070	Lamp
J501	4	4	YJ08000170	Jack
J504				

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
<b>P550 PROGRAM LED BOARD</b>				
P550	1	1	YD41140030	P.W. Board
	1	1	ZZ41140030	P.W. Board Assembly
Q551	1	1	HI10003020	Diode, L.E.D.
Q552	1	1	HI10003020	Diode, L.E.D.
Q553	1	1	HI10003020	Diode, L.E.D.
Q554	1	1	HI10003020	Diode, L.E.D.
<b>P600 DOLBY BOARD</b>				
P600	1	1	YD41140040	P.W. Board
	1	1	ZZ41140040	P.W. Board Assembly
S601	1	1	SP04020160	Pushswitch, with S602
R601	1	1	GD05100140	Resistor, 10Ω ±5% ¼W
R602	1	1	GD05100140	Resistor, 10Ω ±5% ¼W
<b>P650 REC. VOLUME BOARD</b>				
P650	1	1	YA41141220	P.W. Board
	1	1	ZZ41141220	P.W. Board Assembly
R651	1	1	RD02030040	Variable Resistor, with R652 20kΩ
<b>P700 JACK BOARD</b>				
P700	1	1	YD41140070	P.W. Board
	1	1	ZZ41140070	P.W. Board Assembly
R701	1	1	GD05681140	Resistor, 680Ω ±5% ¼W
R702	1	1	GD05681140	Resistor, 680Ω ±5% ¼W
R703	1	1	GD05184140	Resistor, 180kΩ ±5% ¼W
R704	1	1	GD05184140	Resistor, 180kΩ ±5% ¼W
J701	1	1	YT02040150	Terminal
R705	1	1	GD05104140	Resistor, 100kΩ ±5% ¼W
R706	1	1	GD05333140	Resistor, 33kΩ ±5% ¼W
R707	1	1	GD05102140	Resistor, 1kΩ ±5% ¼W
R708	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
R709	1	1	GD05103140	Resistor, 10kΩ ±5% ¼W
C701	1	1	EA47503590	Electrolytic Cap., 4.7μF 35V
Q701	1	1	HT107331Q0	Transistor, 2SA733 (Q)
Q702	1	1	HT309451Q0	Transistor, 2SC945 (Q)
Q703	1	1	HT309451Q0	Transistor, 2SC945 (Q)
<b>P800 DOLBY BOARD</b>				
P800	1	1	YD41140060	P.W. Board
	1	1	YD41140060	P.W. Board Assembly
Q801	1	1	HT306441B0	Transistor, 2SC644 (S)
Q901	1	1	HT306441B0	Transistor, 2SC644 (S)
Q802	1	1	HT306441B0	Transistor, 2SC644 (S)
Q902	1	1	HT306441B0	Transistor, 2SC644 (S)
Q803	1	1	HF200301E0	Transistor, 2SK30A (D)
Q903	1	1	HF200301E0	Transistor, 2SK30A (D)
Q804	1	1	HT306441B0	Transistor, 2SC644 (S)
Q904	1	1	HT306441B0	Transistor, 2SC644 (S)
Q805	1	1	HT107211T0	Transistor, 2SA721 (T)
Q905	1	1	HT107211T0	Transistor, 2SA721 (T)
Q806	1	1	HT306441B0	Transistor, 2SC644 (S)
Q906	1	1	HT306441B0	Transistor, 2SC644 (S)
Q807	1	1	HD10003020	Diode, 20A90
Q907	1	1	HD10003020	Diode, 20A90

• (U) for U.S.A.  
• (C) for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION				REF. DESIG.	Q'TY		PART NO.	DESCRIPTION				
	U	C							U	C						
Q808	1	1	HD10003020	Diode,	20A90			R825	1	1	RT05473140	Resistor,	47kΩ	±5%	¼W	
Q908	1	1	HD10003020	Diode,	20A90			R925	1	1	RT05473140	Resistor,	47kΩ	±5%	¼W	
Q809	1	1	HD20011050	Diode,	1S1555			R826	1	1	RT05272140	Resistor,	2.7kΩ	±5%	¼W	
Q909	1	1	HD20011050	Diode,	1S1555			R926	1	1	RT05272140	Resistor,	2.7kΩ	±5%	¼W	
Q810	1	1	HD20011050	Diode,	1S1555			R827	1	1	RT05102140	Resistor,	1kΩ	±5%	¼W	
Q910	1	1	HD20011050	Diode,	1S1555			R927	1	1	RT05102140	Resistor,	1kΩ	±5%	¼W	
Q811	1	1	HD20011050	Diode,	1S1555			R828	1	1	RT05330140	Resistor,	33Ω	±5%	¼W	
Q911	1	1	HD20011050	Diode,	1S1555			R928	1	1	RT05330140	Resistor,	33Ω	±5%	¼W	
Q830	1	1	HD30031090	Diode,	WZ081			R829	1	1	RT05153140	Resistor,	15kΩ	±5%	¼W	
R801	1	1	RT05154140	Resistor,	150kΩ	±5%	¼W	R929	1	1	RT05153140	Resistor,	15kΩ	±5%	¼W	
R901	1	1	RT05154140	Resistor,	150kΩ	±5%	¼W	R830	1	1	RT05470140	Resistor,	47Ω	±5%	¼W	
R802	1	1	RT05184140	Resistor,	180kΩ	±5%	¼W	R930	1	1	RT05470140	Resistor,	47Ω	±5%	¼W	
R902	1	1	RT05184140	Resistor,	180kΩ	±5%	¼W	R831	1	1	RT05274140	Resistor,	270kΩ	±5%	¼W	
R803	1	1	RT05273140	Resistor,	27kΩ	±5%	¼W	R931	1	1	RT05274140	Resistor,	270kΩ	±5%	¼W	
R903	1	1	RT05273140	Resistor,	27kΩ	±5%	¼W	R832	1	1	RT05274140	Resistor,	270kΩ	±5%	¼W	
R804	1	1	RT05223140	Resistor,	22kΩ	±5%	¼W	R932	1	1	RT05274140	Resistor,	270kΩ	±5%	¼W	
R904	1	1	RT05223140	Resistor,	22kΩ	±5%	¼W	R833	1	1	RT05224140	Resistor,	220kΩ	±5%	¼W	
R805	1	1	RT05822140	Resistor,	82kΩ	±5%	¼W	R933	1	1	RT05224140	Resistor,	220kΩ	±5%	¼W	
R905	1	1	RT05822140	Resistor,	82kΩ	±5%	¼W	R800	1	1	RC00000120	Resistor,	0Ω	±0%	¼W	
R806	1	1	RT05154140	Resistor,	150kΩ	±5%	¼W	C801	1	1	EA10601690	Electrolytic Cap.,	10μF		16V	
R906	1	1	RT05154140	Resistor,	150kΩ	±5%	¼W	C901	1	1	EA10601690	Electrolytic Cap.,	10μF		16V	
R807	1	1	RT05272140	Resistor,	2.7kΩ	±5%	¼W	C802	1	1	EA10601690	Electrolytic Cap.,	10μF		16V	
R907	1	1	RT05272140	Resistor,	2.7kΩ	±5%	¼W	C902	1	1	EA10601690	Electrolytic Cap.,	10μF		16V	
R808	1	1	RT05333140	Resistor,	33kΩ	±5%	¼W	C803	1	1	DF15562010	Film Cap.,	0.0056μF			
R908	1	1	RT05333140	Resistor,	33kΩ	±5%	¼W	C903	1	1	DF15562010	Film Cap.,	0.0056μF			
R809	1	1	RT05274140	Resistor,	270kΩ	±5%	¼W	C804	1	1	DF15472010	Film Cap.,	0.0047μF			
R909	1	1	RT05274140	Resistor,	270kΩ	±5%	¼W	C904	1	1	DF15472010	Film Cap.,	0.0047μF			
R810	1	1	RT05473140	Resistor,	47kΩ	±5%	¼W	C805	1	1	DF15273010	Film Cap.,	0.027μF			
R910	1	1	RT05473140	Resistor,	47kΩ	±5%	¼W	C905	1	1	DF15273010	Film Cap.,	0.027μF			
R811	1	1	RT05332140	Resistor,	3.3kΩ	±5%	¼W	C806	1	1	EA10601690	Electrolytic Cap.,	10μF		16V	
R911	1	1	RT05332140	Resistor,	3.3kΩ	±5%	¼W	C906	1	1	EA10601690	Electrolytic Cap.,	10μF		16V	
R812	1	1	RT05222140	Resistor,	2.2kΩ	±5%	¼W	C807	1	1	DF17104010	Film Cap.,	0.1μF			
R912	1	1	RT05222140	Resistor,	2.2kΩ	±5%	¼W	C907	1	1	DF17104010	Film Cap.,	0.1μF			
R813	1	1	RT05684140	Resistor,	680kΩ	±5%	¼W	C808	1	1	EA47601090	Electrolytic Cap.,	47μF		10V	
R913	1	1	RT05684140	Resistor,	680kΩ	±5%	¼W	C908	1	1	EA47601090	Electrolytic Cap.,	47μF		10V	
R814	1	1	RT05183140	Resistor,	18kΩ	±5%	¼W	C809	1	1	DF17104010	Film Cap.,	0.1μF			
R914	1	1	RT05183140	Resistor,	18kΩ	±5%	¼W	C909	1	1	DF17104010	Film Cap.,	0.1μF			
R815	1	1	RA01030260	Trimming Resistor,	10kΩ			C810	1	1	EA10601690	Electrolytic Cap.,	10μF		16V	
R915	1	1	RA01030260	Trimming Resistor,	10kΩ			C910	1	1	EA10601690	Electrolytic Cap.,	10μF		16V	
R816	1	1	RT05272140	Resistor,	2.7kΩ	±5%	¼W	C811	1	1	DD15200010	Ceramic Cap.,	20pF			
R916	1	1	RT05272140	Resistor,	2.7kΩ	±5%	¼W	C911	1	1	DD15200010	Ceramic Cap.,	20pF			
R817	1	1	RT05153140	Resistor,	15kΩ	±5%	¼W	C812	1	1	EA10601690	Electrolytic Cap.,	10μF		16V	
R917	1	1	RT05153140	Resistor,	15kΩ	±5%	¼W	C912	1	1	EA10601690	Electrolytic Cap.,	10μF		16V	
R818	1	1	RT05833140	Resistor,	8.2kΩ	±5%	¼W	C813	1	1	DF17104010	Film Cap.,	0.1μF			
R918	1	1	RT05822140	Resistor,	8.2kΩ	±5%	¼W	C913	1	1	DF17104010	Film Cap.,	0.1μF			
R819	1	1	RA01020110	Trimming Resistor,	1kΩ			C814	1	1	DF17104010	Film Cap.,	0.1μF			
R919	1	1	RA01020110	Trimming Resistor,	1kΩ			C914	1	1	DF17104010	Film Cap.,	0.1μF			
R820	1	1	RT05822140	Resistor,	8.2kΩ	±5%	¼W	C815	1	1	DF17334010	Film Cap.,	0.33μF			
R920	1	1	RT05822140	Resistor,	8.2kΩ	±5%	¼W	C915	1	1	DF17334010	Film Cap.,	0.33μF			
R821	1	1	RT05822140	Resistor,	8.2kΩ	±5%	¼W	C820	1	1	EA10702590	Electrolytic Cap.,	100μF		25V	
R921	1	1	RT05822140	Resistor,	8.2kΩ	±5%	¼W	J801	1	1	YP06000820	Plug				
R822	1	1	RT05103140	Resistor,	10kΩ	±5%	¼W	J802	1	1	YJ06000270	Jack				
R922	1	1	RT05103140	Resistor,	10kΩ	±5%	¼W	S001	1	1	SP04010150	Pushswitch				
R823	1	1	RT05333140	Resistor,	33kΩ	±5%	¼W	T001	1	1	TS15401170	Power Transformer				
R923	1	1	RT05333140	Resistor,	33kΩ	±5%	¼W	G001	1		BF10400030	Printed Comp.,	0.1μF	+120Ω	UL	
R824	1	1	RT05124140	Resistor,	120kΩ	±5%	¼W	C001	1		DF17473590	Film Cap.,	0.047μF		AC 125V	
R924	1	1	RT05124140	Resistor,	120kΩ	±5%	¼W	C002	1	1	DK17102010	Ceramic Cap.,	0.001μF		50V	

- (U) for U.S.A.
- (C) for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
C003	1	1	DK17102010	Ceramic Cap., 0.001 $\mu$ F 50V
J001	1	1	YJ01000820	Jack, Mic. L
J002	1	1	YJ01000820	Jack, Mic. R
J003	1	1	YJ01000810	Jack, Headphone
J004	1	1	YL01040310	Terminal, 4P
J005	1	1	YL03010210	Terminal, Ground
R001	1	1	RT05082140	Resistor, 8.2 $\Omega$ $\pm$ 5% $\frac{1}{4}$ W
R002	1	1	RT05082140	Resistor, 8.2 $\Omega$ $\pm$ 5% $\frac{1}{4}$ W
M001	1	1	IM11042230	Meter
M002	1	1	IM11042230	Meter
Q001	1	1	H110003020	Diode
W001	1	1	YC02400260	Power Cord
M011	1	1	MM11320120	DC Motor
Q011	1	1	HD20009080	Diode
H011	1	1	LH53452010	REC/PLAY-ERASG Head.
L011	1	1	ME10350010	Solenoid
P011	1	1	YD39030070	P.W.B.
S011	1	1	3903160700	Mini Switch
S012	1	1	3903123700	Sensing Switch
S013	1	1	SM01010290	Mini Switch
S014	1	1	SM02020070	Mini Switch
S015	1	1	SM01010302	Mini Switch

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