

**SERVICE
MANUAL**

SR5100/MR1155

marantz®

model SR5100/MR1155

Stereophonic Receiver

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail price quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

U.S.A.
Marantz Company, Inc.
National Service Dept.
P.O. Box 577
Chatsworth, CA91311
U.S.A.

CANADA
Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA
Marantz Australia
32 Cross Street
Brookvale, NSW 2100
Australia

JAPAN
Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara-shi
Kanagawa, Japan

Marantz Europe S.A.
326 Avenue Louise Bte 32
1050 Brussels
Belgium

EUROPE
Marantz France
4 rue Bernard Palissy
92600 Asnieres
France

Marantz Audio U.K., Ltd.
193 London Road
Staines, Middlesex
United Kingdom

Marantz Germany GMBH
Max-Planck-Strasse 22
6072 Dreieich
West Germany

Marantz Belgium
45 rue Auguste Van Zande
1080 Brussels
Belgium

Marantz Svenska A.B.
Franzengatan 6
10425 Stockholm
Sweden

Marantz Norske A.S.
Refstadalleen 13
Oslo 5
Norway

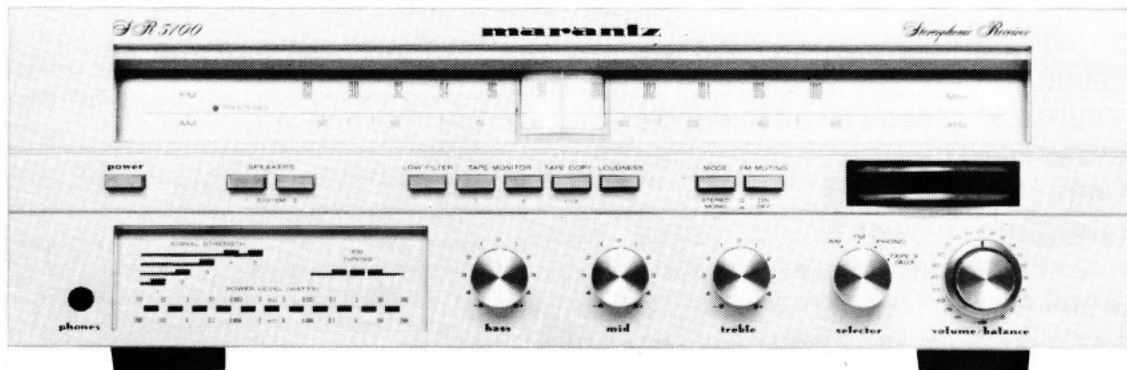
All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

marantz®

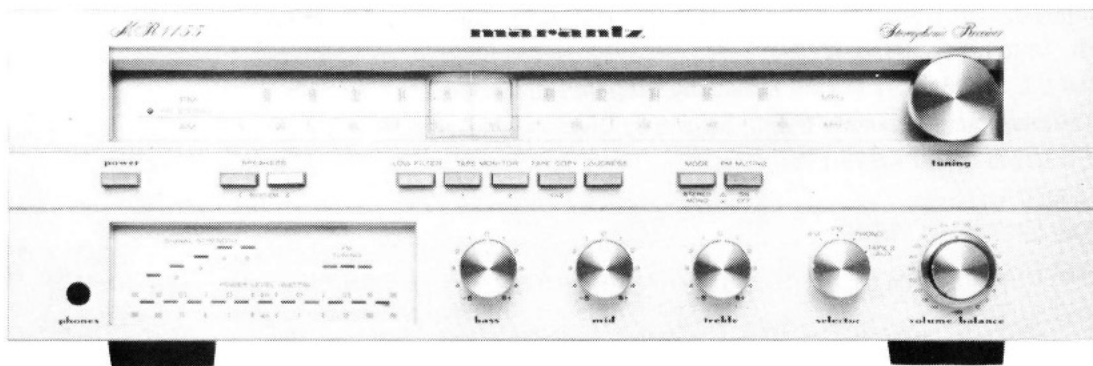
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MODEL SR5100 STEREOPHONIC RECEIVER



MODEL MR1155 STEREOPHONIC RECEIVER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model SR5100/MR1155 Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model SR5100/MR1155 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Tuner mounted on P.W. Board P100
2. Main Amp/Power
Supply mounted on P.W. Board P700
3. Tone Amp mounted on P.W. Board PE00
4. L.E.D. Driver mounted on P.W. Board PL01
5. L.E.D. Drive mounted on P.W. Board PL02
6. Push Switch mounted on P.W. Board PS00
7. S.P.K. Switch mounted on P.W. Board PT00
8. Headphone Jack mounted on P.W. Board PW00
9. S.P.K. Terminal mounted on P.W. Board PW50
10. Stereo L.E.D. mounted on P.W. Board PY00
11. Dial Pointer Lamp mounted on P.W. Board PZ00

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model SR5100/MR1155 Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Analyzer MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting
Distortion Analyzer Audio Oscillator AC VTVM	Sound Technology Model 1700A	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)
Circuit Tester		Trouble shooting
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B-10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600-ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, ±0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, ±0.5%, 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination

3. ALIGNMENT POINTS

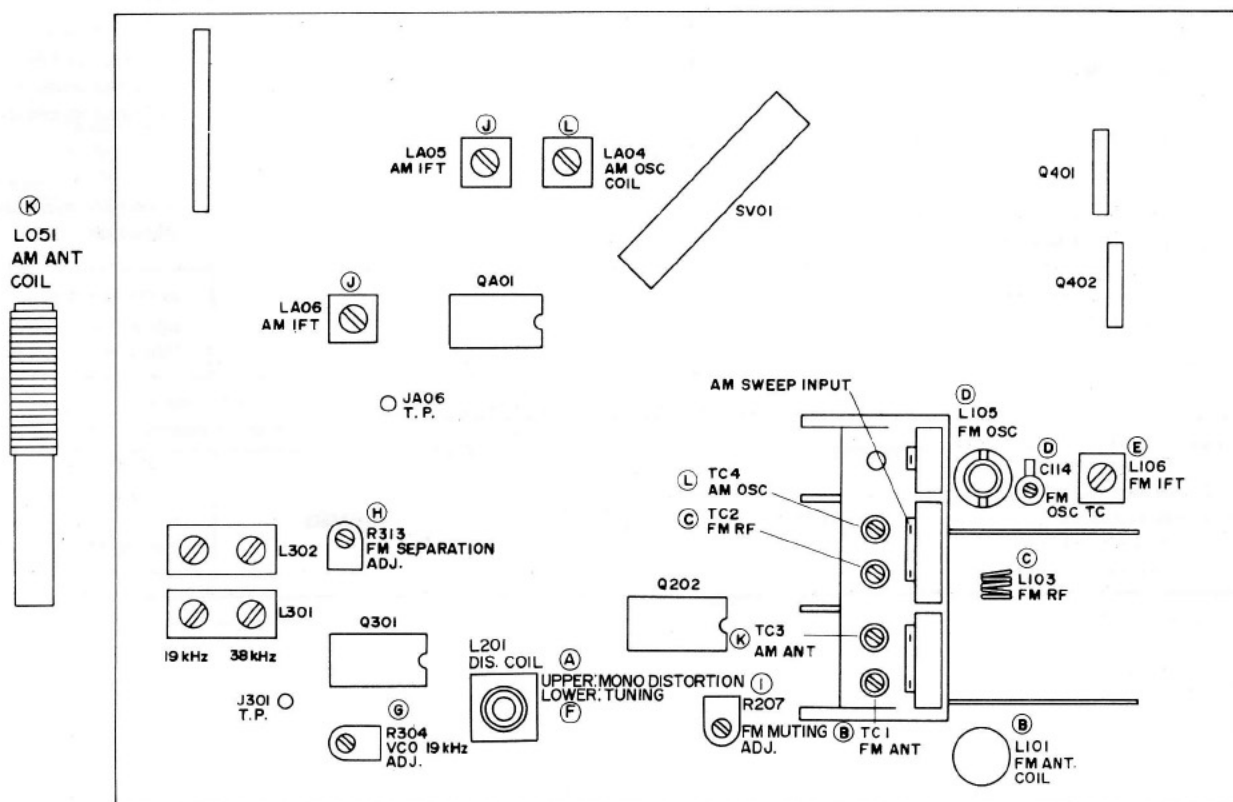


Figure 1. Adjustment Point Locations

* A dummy resistor of 47 kohms must be connected across the tape output terminals before alignment.

4. FM ALIGNMENT PROCEDURES

(Selector switch in the "FM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
4.1 FM IF ALIGNMENT					
1	Sweep generator to point (O) through 5pF capacitor	10.7 MHz market at 10.6, 10.7 and 10.8 MHz	Oscilloscope to point (M)	Quiet point on band.	L 106 (E) for maximum and symmetric response.
2			Oscilloscope to point (N)		L 201 (A) (Secondary core bottom) for straight and symmetric "S" curve response.
3	Repeat steps 1 and 2.				
4.2 FM RF ALIGNMENT					
1	RF generator to FM antenna terminals through matching network (300 ohms, balanced) Maintain RF level below limit.)	87.4 MHz	VTVM to L or R channel output (J014) (Tape out jack)	87.4 MHz with tuning gang closed.	L 105 (D) for maximum output.
2		108.2 MHz		108.2 MHz with tuning gang open.	C114 (D) for maximum output.
3		90 MHz		90 MHz	L101 (B), L103 (C) for maximum output.
4		106 MHz		106 MHz	Ant. RF trimmer for maximum output. (TC1 (B), TC2) (C)
5	Repeat steps 1 to 4.				
6	Check overall response curve and repeat above steps as necessary to obtain maximum sensitivity.				
7	No connection	No signal	—	—	L201 (F) (secondary core bottom) for FM L.E.D. TUNING meter pointer indicated its center.
8	FM generator 1 mV output to FM antenna terminals through matching network (300 ohms, balanced)	98 MHz	Distortion meter to L or R channel output (J014) (Tape out jack)	98 MHz	L201 (A) (primary core upper) for minimum distortion.
9					R223 to R225 so that signal strength meter M002 may read 80%.
4.3 MUTING CIRCUIT ALIGNMENT					
1	RF generator 12.5μV output to FM antenna terminals through matching network (300 ohms, balanced)	98 MHz	VTVM to R or L channel output (J014) (Tape out jack)	98 MHz	R207 (I) for 12.5μV threshold level. (During the adjustment turn the FM MUTING push-switch "ON").

4.3 MULTIPLEX ALIGNMENT PROCEDURES

(Selector switch in the "FM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
1	RF generator to FM antenna terminals through matching network (300 ohms, balanced), with 1mV FM stereo simulator RF level and 100% modulation (pilot 9%)	No modulation	Frequency counter to point (J301)	98 MHz	R304 (G) so that frequency counter may precisely read 19 kHz.
2		Stereo, left (1,000 Hz)	VTVM to right channel output (J014) (Tape out jack)		R313 (H) for minimum output and same separation in both channels.
3		Stereo, right (1,000 Hz)	VTVM to left channel output (J014) (Tape out jack)		
4	Repeat steps 2 and 3.				
4.5 SIGNAL L.E.D. METER ALIGNMENT					
1	RF generator 500 μ V output to FM antenna terminals through matching network (300 ohms, balanced)	98 MHz		98 MHz	Adjust the trimming resistor RL02 so that the signal LED meter leading is 5 point.

5. AM ALIGNMENT PROCEDURES

(Selector switch in the "MW" or "LW" position)

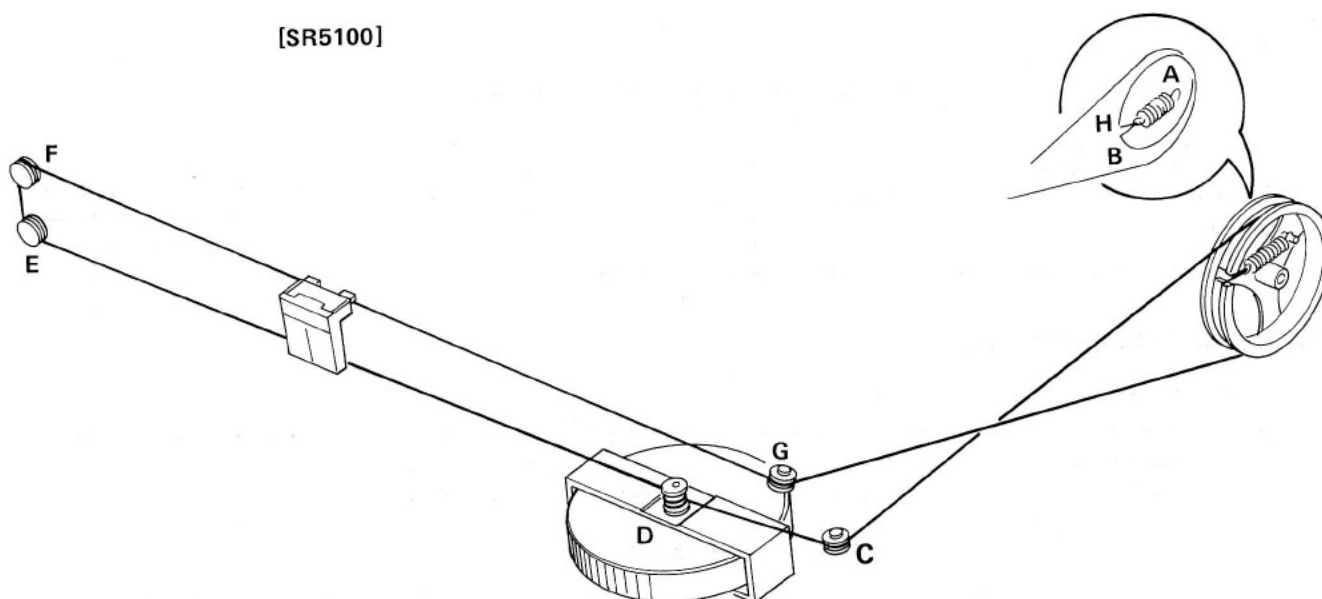
Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
5.1 AM IF ALIGNMENT					
1	Sweep generator to point C120	450 kHz marker	Oscilloscope to point (JA06) T.P.	Quiet point on band.	LA05, LA06 (J) for maximum and sym-response.
5.2 MW RF ALIGNMENT					
1	Apply the signal to the AM bar antenna from the RF generator. Using the test loop.	520 kHz	VTVM to L or R channel output (J014) (Tape out jack)	520 kHz with tuning gang closed.	LA04 (L) for maximum output.
2		1,630 kHz		1,630 kHz with tuning gang open.	TC4 (L) for maximum output.
3		600 kHz		600 kHz	L051 (K) for maximum output.
4		1,400 kHz		1,400 kHz	TC3 (K) for maximum output.
5	Repeat steps 1 to 4 as necessary to obtain maximum sensitivity.				

6. AUDIO ALIGNMENT PROCEDURES

(Selector switch in the "AUX" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Adjustment
1	AF oscillator to AUX jack	1 kHz	AC voltmeter in 30V range to speaker terminals.	Connect 8Ω load to speaker terminals. Adjust input signal so that output voltage at speaker terminal is 20V. Adjust RL23 (L-ch) or RL24 (R-ch) so that the Power L.E.D. Meter leading is 50W. (L.E.D. 5 point)

[SR5100]



[MR1155]

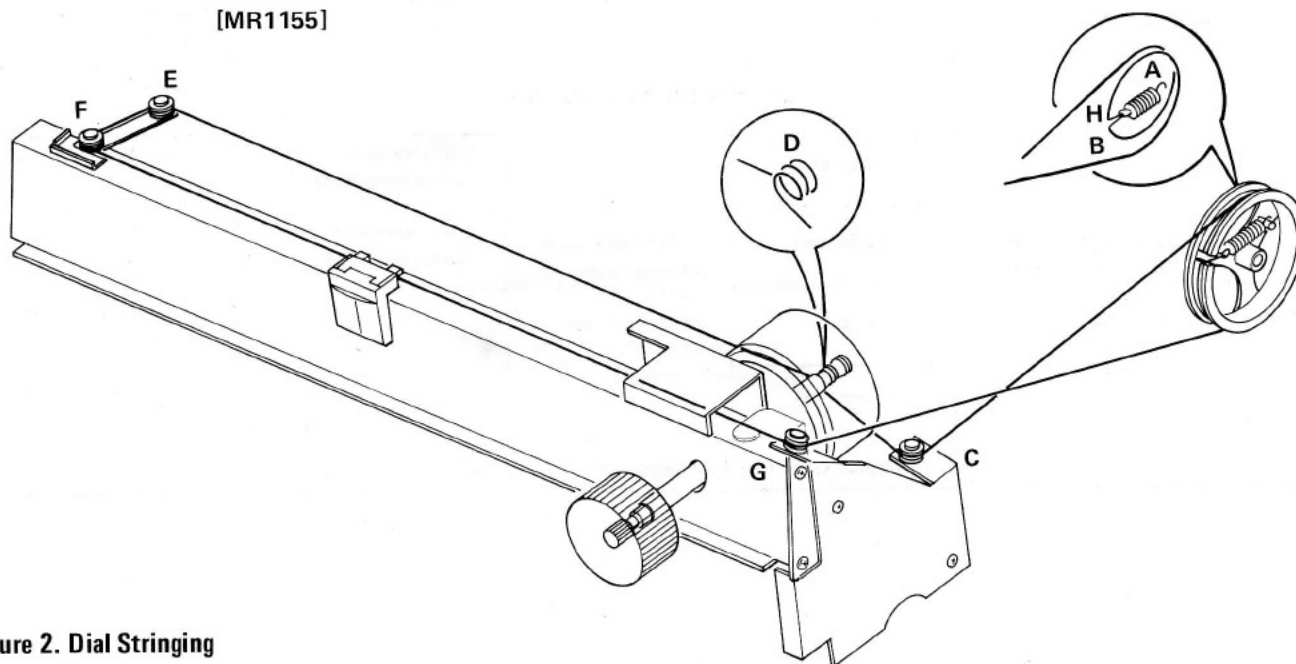
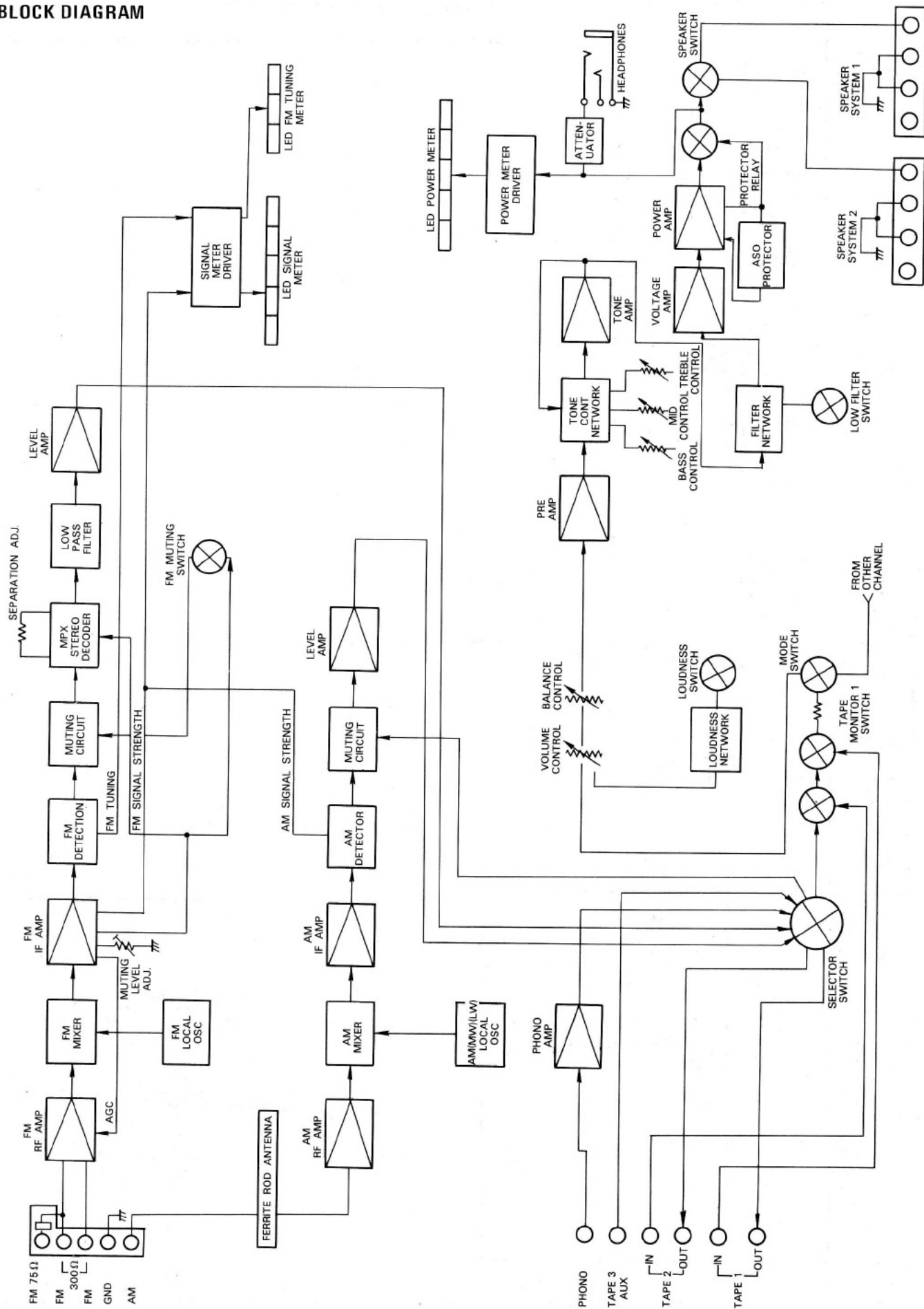
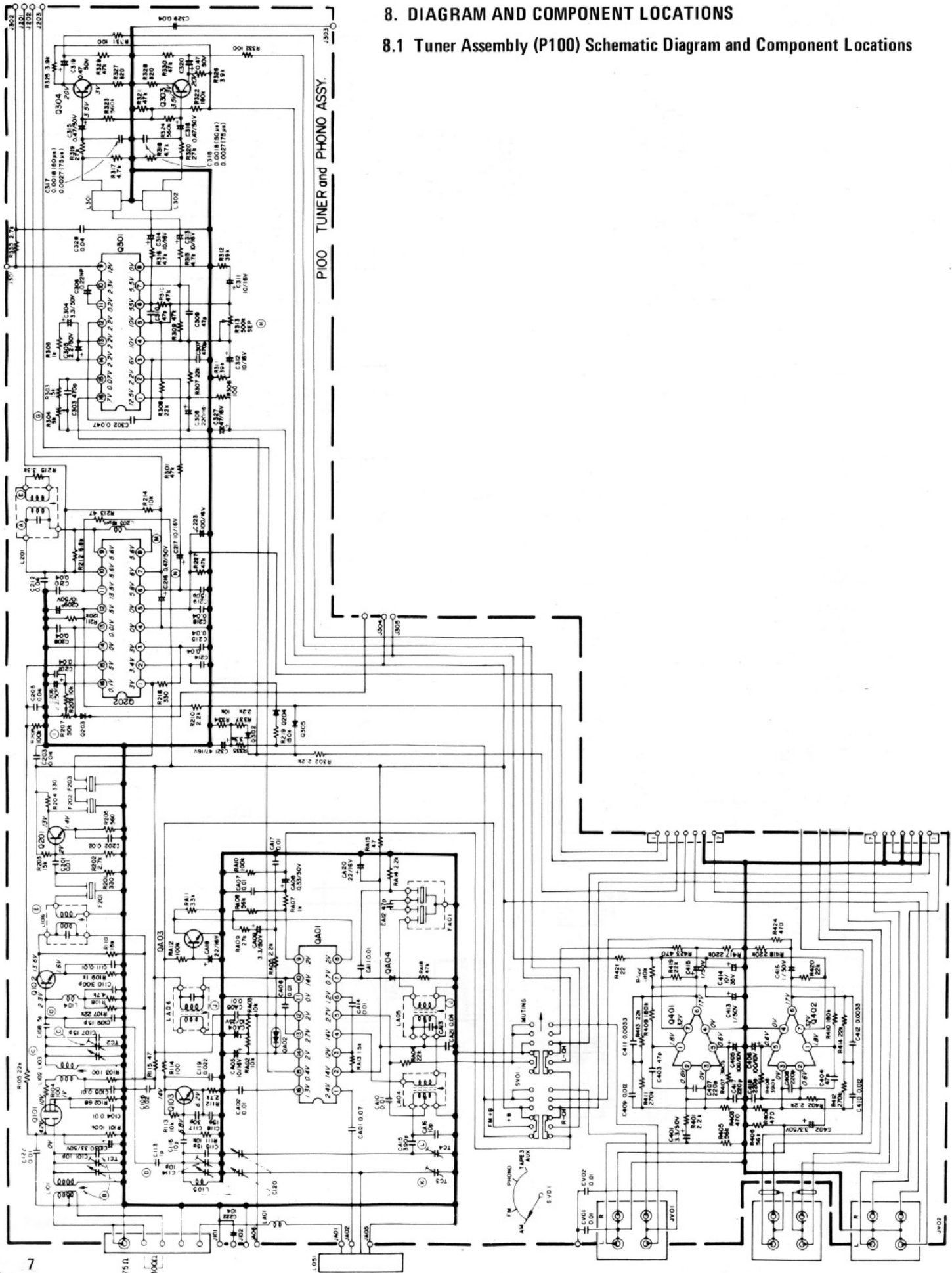


Figure 2. Dial Stringing

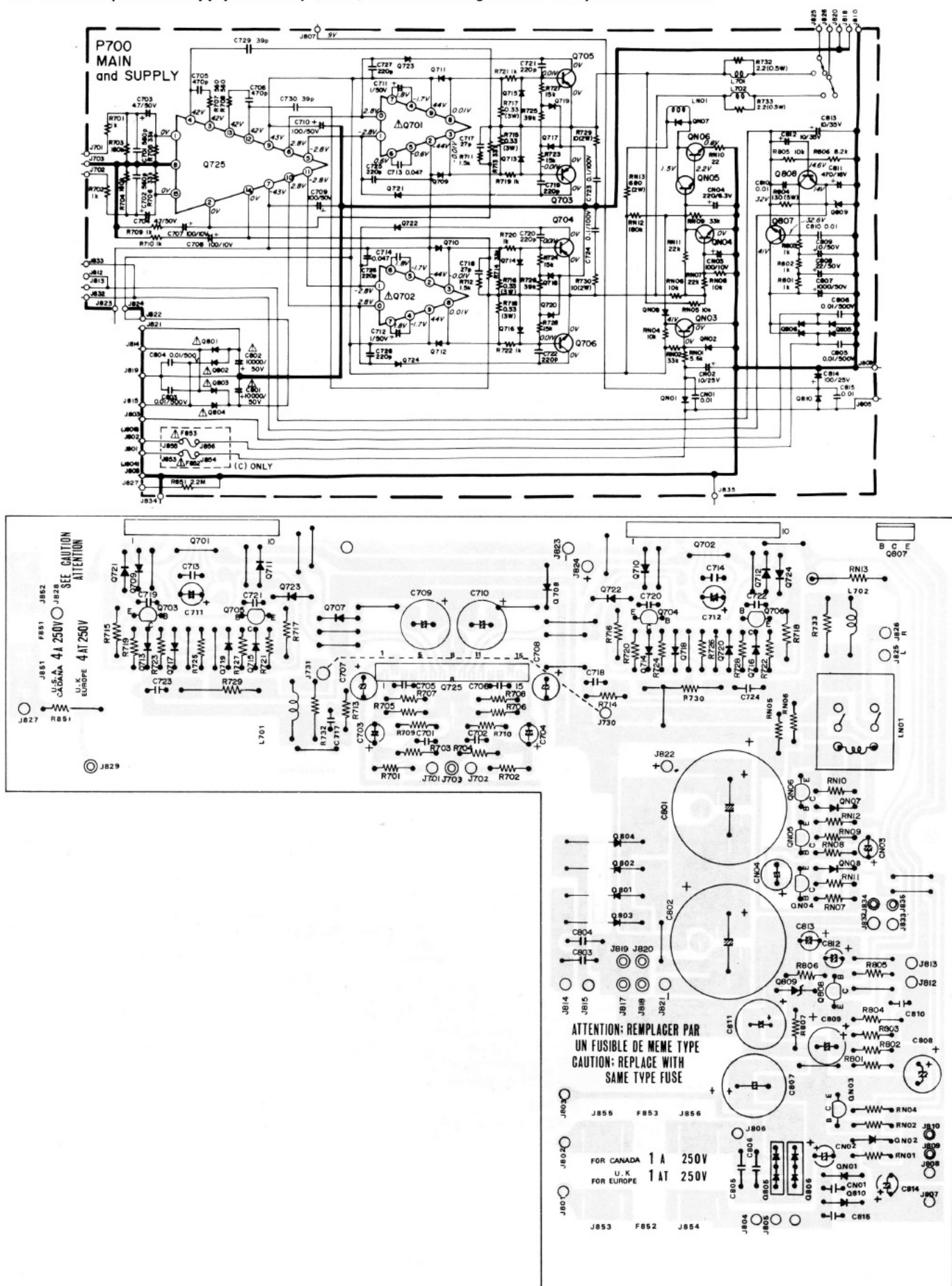
7. BLOCK DIAGRAM



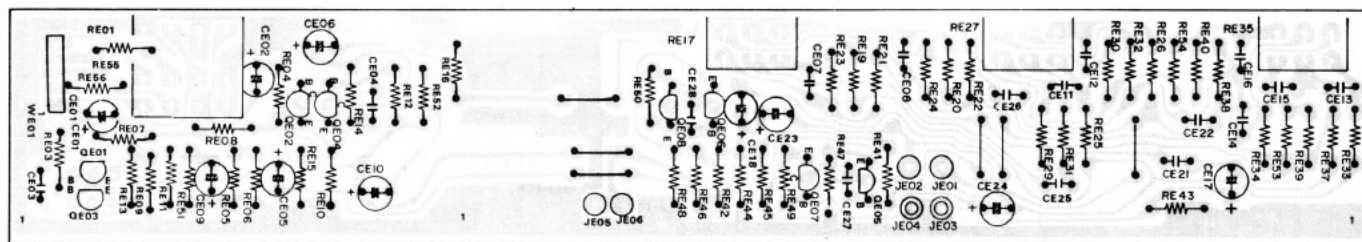
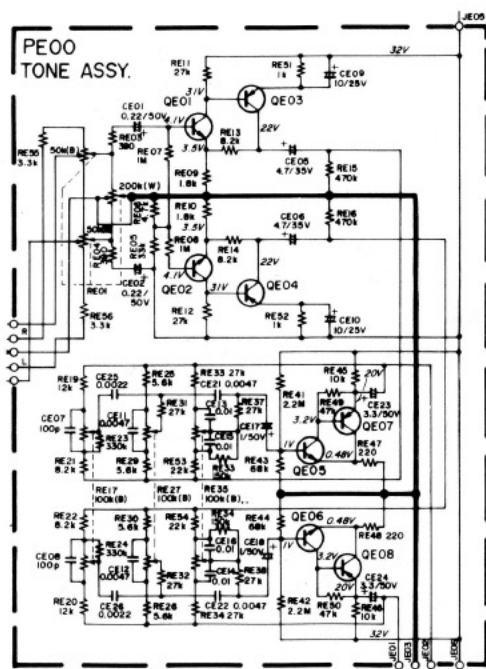
8.1 Tuner Assembly (P100) Schematic Diagram and Component Locations



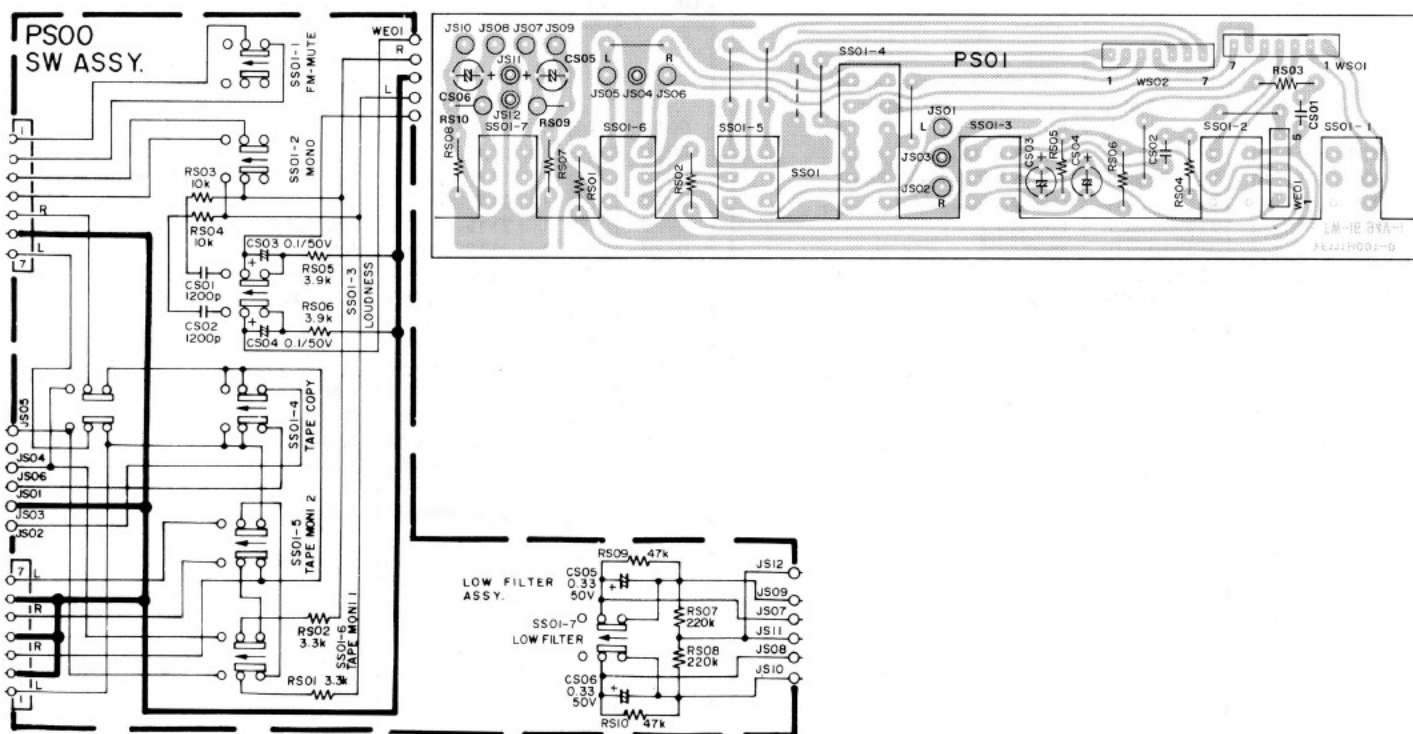
8.2 Main Amp/Power Supply Assembly (P700) Schematic Diagram and Component Locations



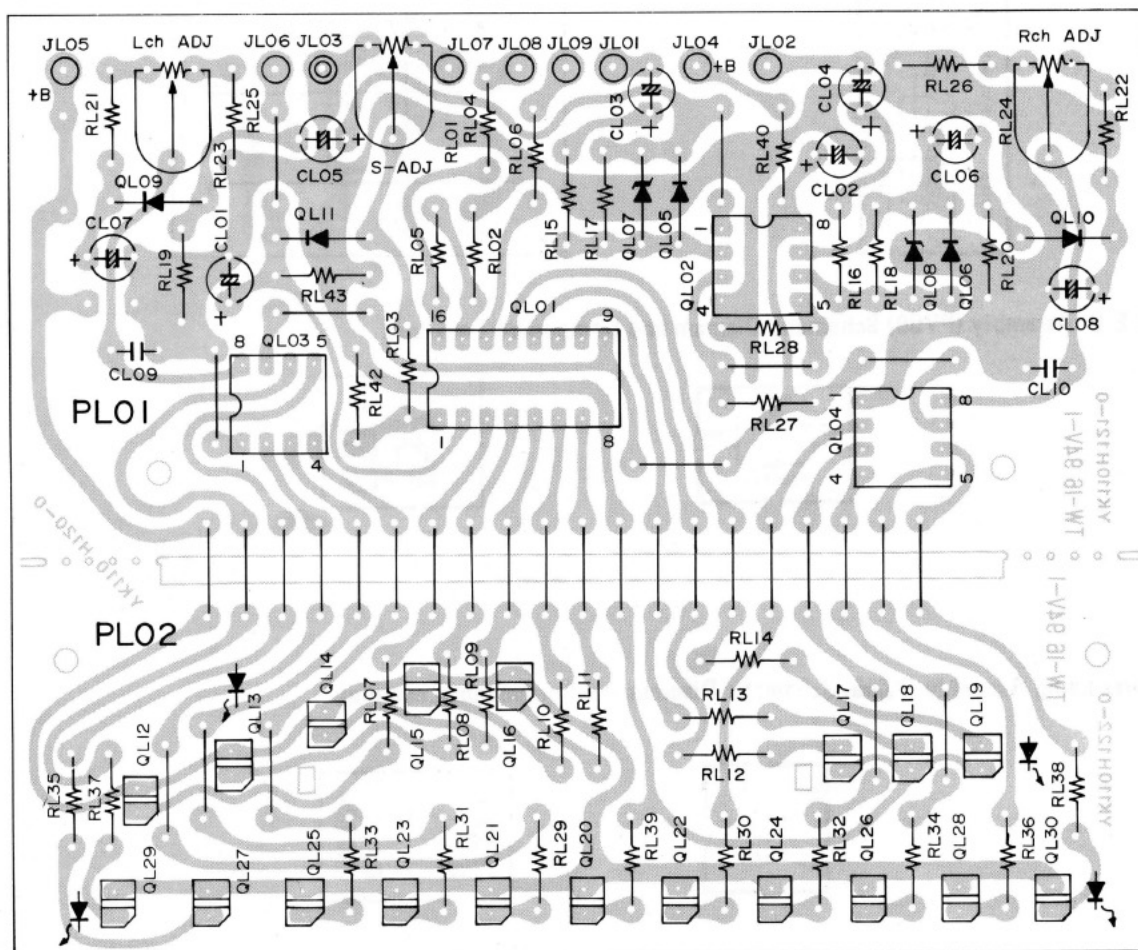
8.3 Tone Amp Assembly (PE00) Schematic Diagram and Component Locations



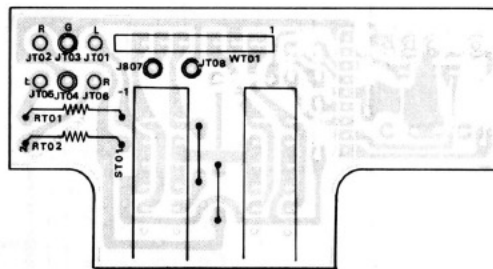
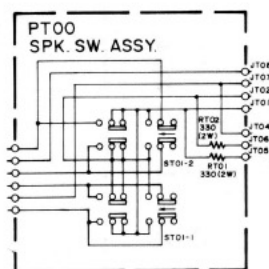
8.4 Push Switch Assembly (PS00) Schematic Diagram and Component Locations



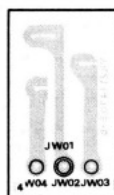
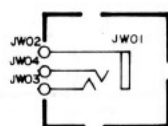
8.5 L.E.D. Drive and L.E.D. Assembly (PL01, PL02) Schematic Diagram and Component Locations



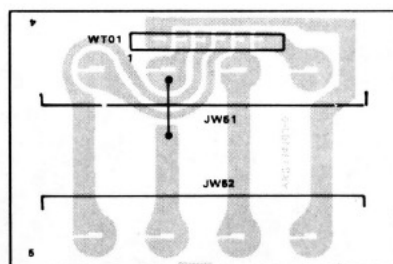
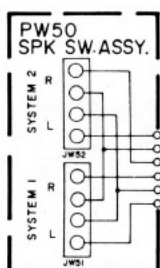
8.6 S.P.K. Switch Assembly (PT00) Schematic Diagram and Component Locations



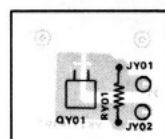
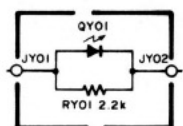
8.7 Headphone Jack Assembly (PW00) Schematic Diagram and Component Locations



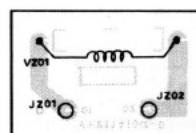
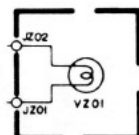
8.8 S.P.K. Terminal Assembly (PW50) Schematic Diagram and Component Locations



8.9 Stereo L.E.D. Assembly (PY00) Schematic Diagram and Component Locations

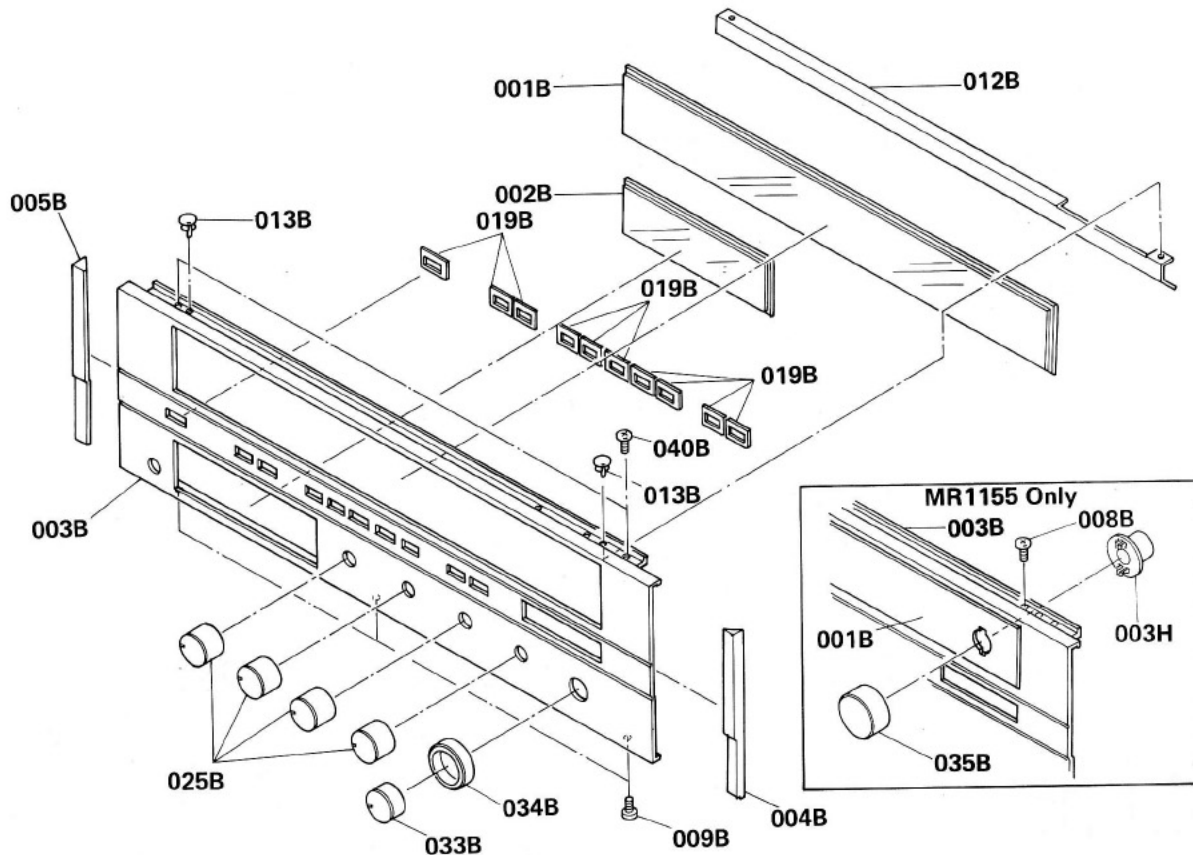


8.10 Dial Pointer Lamp Assembly (PZ00) Schematic Diagram and Component Locations



9. EXPLODED VIEW

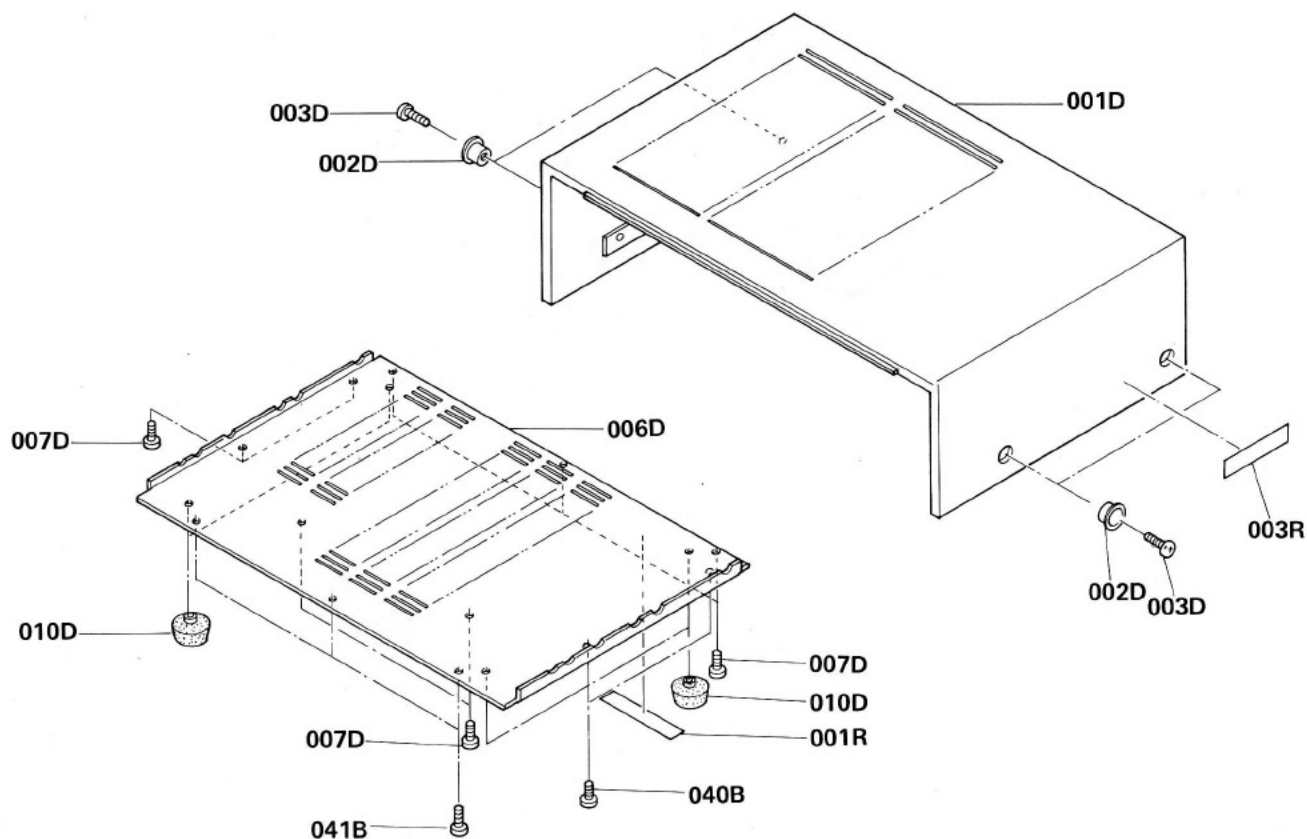
[C01-99] Front Panel



● (U): for U.S.A.
● (C): for Canada

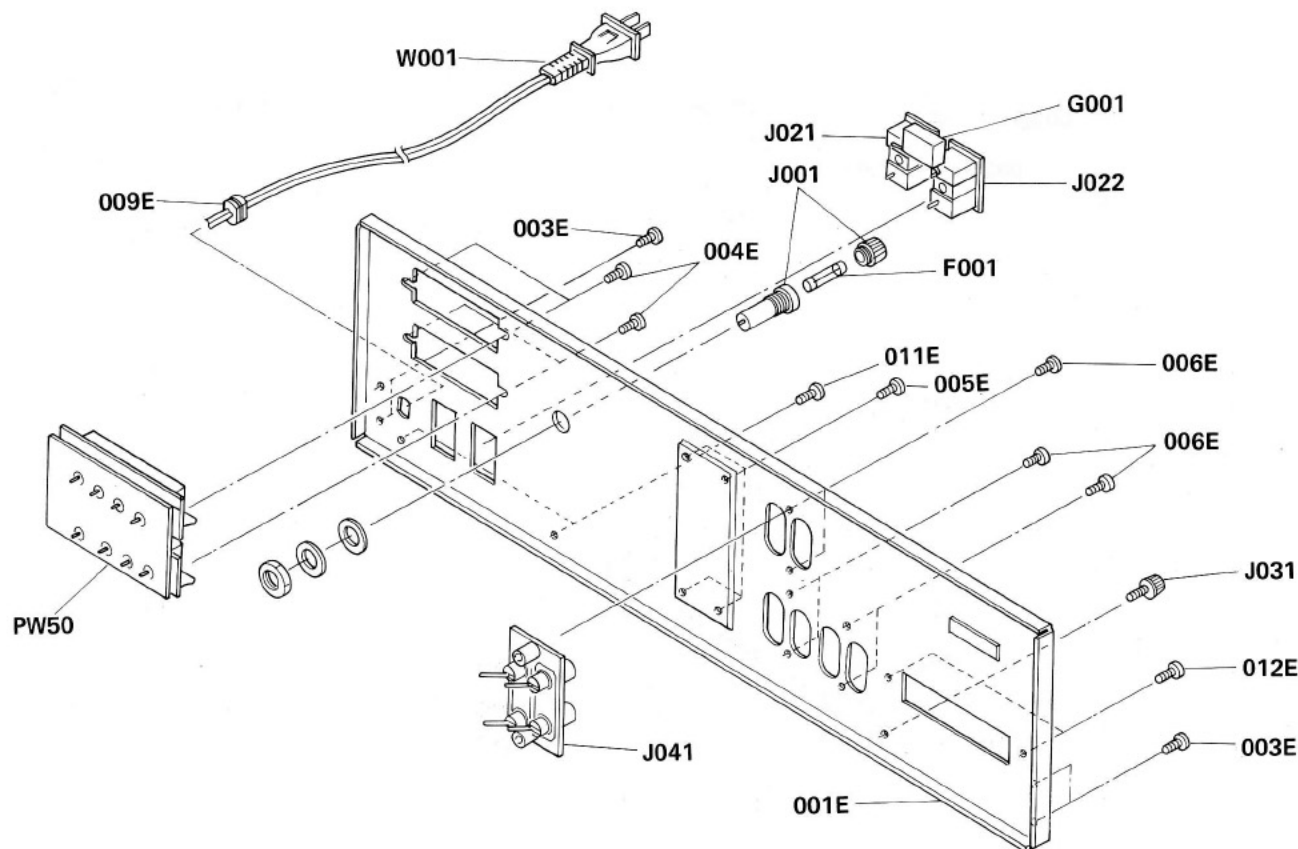
REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
A	1	1	111H063400	SR5100 Only Front Panel Assembly
001B	1	1	2112158110	Window, Dial
002B	1	1	2112158120	Window, Meter
003B	1	1	111H063010	Escutcheon, Front Panel
004B	1	1	2112067010	Cap (R)
005B	1	1	2112067020	Cap (L)
012B	1	1	2112303210	Mask
013B	2	2	2276005050	Clamper
019B	7	7	216H259010	Bushing

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
A	1	1	111H063410	MR1155 Only Front Panel Assembly
001B	1	1	2116158010	Window, Dial
002B	1	1	2112158020	Window, Meter
003B	1	1	111H063020	Escutcheon, Front Panel
004B	1	1	2112067010	Cap (R)
005B	1	1	2112067020	Cap (L)
012B	1	1	2112303210	Mask
013B	2	2	2276005050	Clamper
019B	7	7	216H259010	Bushing
008B	2	2	51280308B0	B.H. Tapped Screw B3 x 8
009B	2	2	51280308B0	B.H. Tapped Screw B3 x 8
025B	4	4	110H154010	Knob
033B	1	1	110H154020	Knob
034B	1	1	110H154030	Knob
035B	1	1	110H154040	Knob (MR1155 Only)
003H	1	1	2116259110	Bushing (MR1155 Only)



● (U): for U.S.A.
● (C): for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION	
	U	C			
040B	2	2	51100308A9	B.H.M. Screw	B3 x 8
041B	3	3	51280308B0	B.H. Tapped Screw	B3 x 8
001D	1	1	2114064710	Case	
002D	4	4	3906259010	Bushing	
003D	4	4	51280414U0	B.H. Tapped Screw	B4 x 14
006D	1	1	2116257010	Lid, Bottom Cover	
007D	12	12	51280410B0	B.H. Tapped Screw	B4 x 10
010D	4	4	2259057010	Leg	
001R	1	1	2578861010	Label	(SR5100 Only)
001R	1	1	2911861110	Label	(MR1155 Only)
003R	1	1	2932861110	Label	(SR5100 Only)
003R	1	1	2911861140	Label	(MR1155 Only)

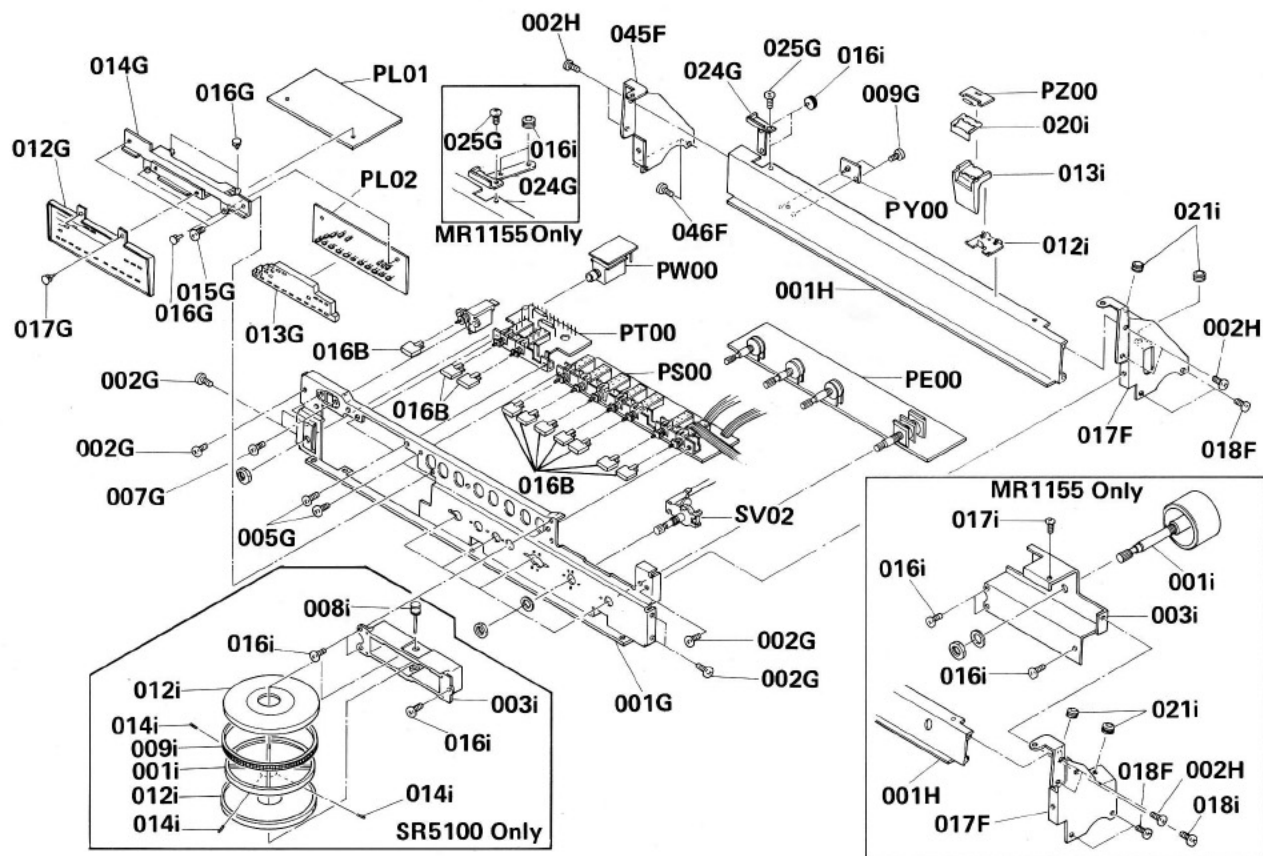


● (U): for U.S.A.
● (C): for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
001E	1		111H160210	Bracket, Rear Panel(SR5100 Only)
001E	1		111H160220	Bracket, Rear Panel(MR1155 Only)
001E		1	111H160230	Bracket, Rear Panel(SR5100 Only)
001E		1	111H160240	Bracket, Rear Panel(MR1155 Only)
003E	4	4	51280308U0	B.H. Tapped Screw B3 x 8
004E	4	4	51280308U0	B.H. Tapped Screw B3 x 8
005E	4	4	51280308U0	B.H. Tapped Screw B3 x 8
006E	6	6	51280308U0	B.H. Tapped Screw B3 x 8
009E	1	1	1455259030	Bushing
011E	2	2	51280308U0	B.H. Tapped Screw B3 x 8
012E	2	2	51280308U0	B.H. Tapped Screw B3 x 8
F001	1	1	FS10400500	Fuse 4A 250V

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
G001	1		DK18103530	Cap. 0.01μFM 125V
G001		1	DK18103530	Cap. 0.01μFM 125V
J001	1		YJ08000310	Jack, Fuse Holder
J001		1	YJ08000300	Jack, Fuse Holder
J021	1	1	YJ04000560	Jack, AC Outlet
J022	1	1	YJ04000560	Jack, AC Outlet
J031	1	1	YL0300140	Terminal, Ground
J041	1	1	YT02040420	Terminal
W001	1	1	YC01900070	A.C. Power Cord

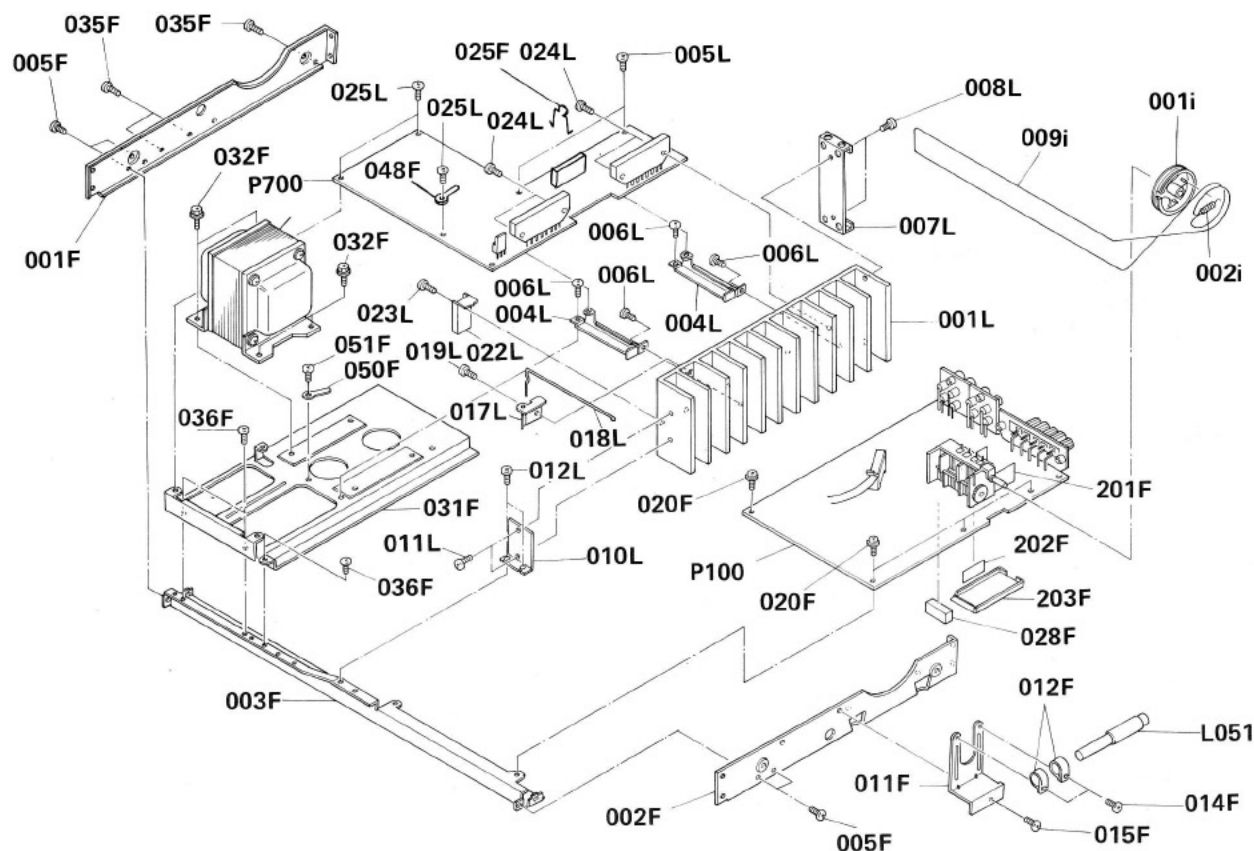
[P01-99] Front Chassis and General Parts



● (U): for U.S.A.
● (C): for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
016B	10	10	216H54010	Knob, Push SW.
017F	1	1	2116160050	Bracket (SR5100 Only)
017F	1	1	2116160090	Bracket (MR1155 Only)
018F	1	1	51280308B0	B.H. Tapped Screw B3 x 8
045F	1	1	2116160060	Bracket (L)
046F	1	1	51280308B0	B.H. Tapped Screw B3 x 8
001G	1	1	101H160010	Bracket, Front Chassis
002G	6	6	51280308B0	B.H. Tapped Screw B3 x 8
005G	4	4	51100306A9	B.H.M. Screw B3 x 6
007G	2	2	51100306A9	B.H.M. Screw B3 x 6
009G	2	2	51282605B0	B.H.M. Screw B2.6 x 5
012G	1	1	111H265010	Indicator
013G	1	1	101H259010	Bushing
014G	1	1	110H160010	Bracket
015G	2	2	51280308B0	B.H. Tapped Screw B3 x 8
016G	4	4	2276005050	Clamper
017G	2	2	2276005050	Clamper
024G	1	1	2112160070	Bracket (SR5100 Only)
024G	1	1	2116160110	Bracket (MR1155 Only)
025G	1	1	51280308B0	B.H. Tapped Screw B3 x 8
001H	1	1	2116302150	Dial (SR5100 Only)
001H	1	1	21133302210	Dial (MR1155 Only)
002H	4	4	51280308B0	B.H. Tapped Screw B3 x 8

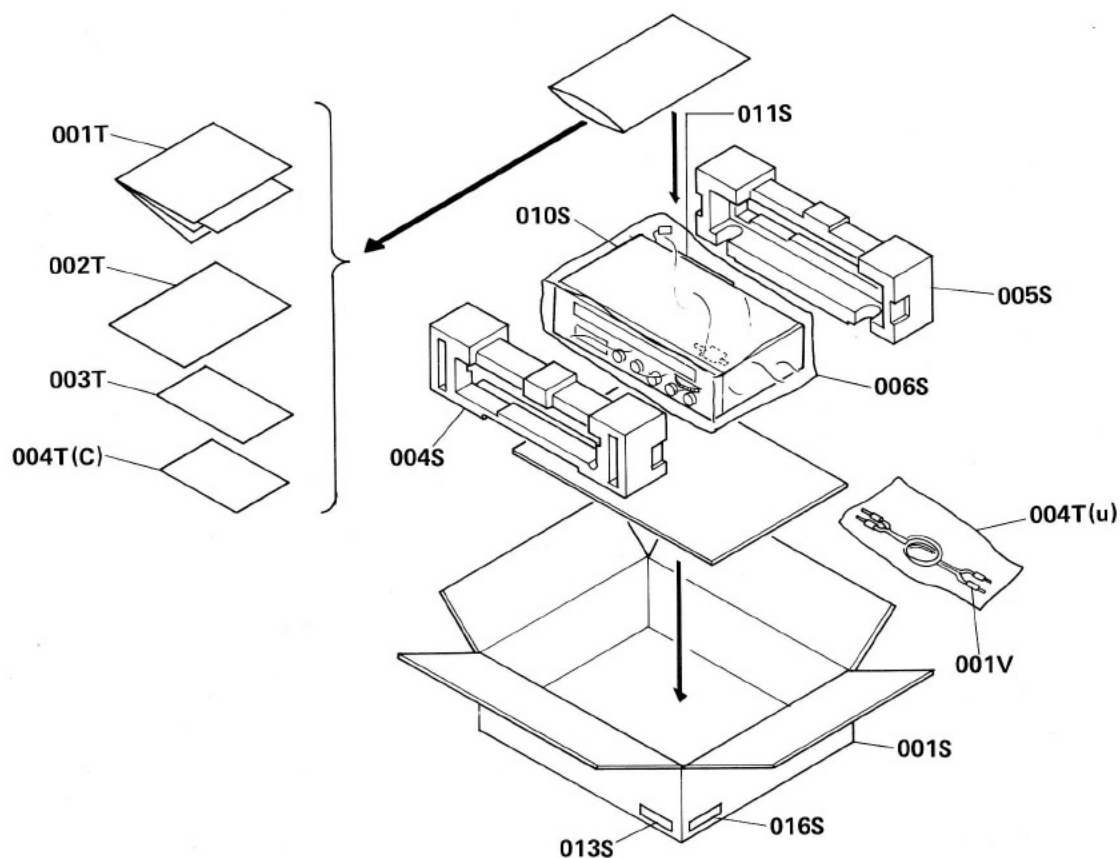
REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
001i	1	1	2219273010	Flywheel Assembly (SR5100 Only)
003i	1	1	2112104500	Retainer (SR5100 Only)
008i	1	1	2119112010	Shaft (SR5100 Only)
009i	1	1	2215353010	Ring (SR5100 Only)
012i	2	2	2219063230	Escutcheon (SR5100 Only)
014i	3	3	5169030609	Socket Screw. HP (SR5100 Only)
016i	3	3	51280308B0	B.H. Tapped Screw (SR5100 Only)
001i	1	1	2116273500	Flywheel (MR1155 Only)
003i	1	1	2115150100	Bracket (MR1155 Only)
016i	3	3	51280308B0	B.H. Tapped Screw B3 x 8 (MR1155 Only)
017i	1	1	51280308B0	B.H. Tapped Screw B3 x 8 (MR1155 Only)
018i	1	1	51280308B0	B.H. Tapped Screw B3 x 8 (MR1155 Only)
012i	1	1	2112103010	Pointer
013i	1	1	2112103020	Pointer
016i	2	2	2276262500	Pulley (K)
020i	1	1	2112303030	Mask
021i	2	2	2276262500	Pulley (K)
S001	1	1	SP01010240	Push Switch, Power
SV02	1	1	SR00040030	Rotary Switch



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

REF. DISIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
001F	1	1	2116126010	Stay (L)
002F	1	1	2116126020	Stay (R)
003F	1	1	2116126030	Stay
005F	4	4	51280308B0	B.H. Tapped Screw
011F	1	1	2112271010	Holder
012F	2	2	1502271010	Holder
014F	2	2	51260310B0	B.T. Screw B3 x 8
015F	1	1	51260308B0	B.H. Tapped Screw B3 x 10
020F	4	4	51260308B0	B.T. Screw (w/w) B3 x 8
025F	1	1	2114271010	Holder, IC
028F	1	1	2116056010	Buffer
031F	1	1	2114105010	Chassis
032F	4	4	52040510A0	H. Head Bolt
035F	3	3	51280308B0	B.H. Tapped Screw B3 x 8
036F	3	3	51280308B0	B.H. Tapped Screw B3 x 8
048F	1	1	62030049W0	Lug
050F	1	1	62030049W0	Lug
051F	1	1	51280308B0	B.H. Tapped Screw B3 x 8
201F	2	2	2259109040	Shield
202F	1	1	2259109060	Shield
203F	1	1	2112109010	Shield

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
001i	1	1	2112159010	Drum
002i	1	1	2112115020	Spring
009i	1	1	72040805A0	String (180mm)
001L	1	1	2114267010	Heatsink
004L	2	2	2114160020	Bracket
005L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
006L	4	4	51280308B0	B.H. Tapped Screw B3 x 8
007L	1	1	2116060070	Bracket
008L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
010L	1	1	2276160040	Bracket
011L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
017L	1	1	2112271020	Holder
018L	1	1	2114272010	Pole
019L	1	1	51280308B0	B.H. Tapped Screw B3 x 8
022L	1	1	2207267020	Heatsink, TR
023L	1	1	51280310B0	B.H. Tapped Screw B3 x 8
024L	4	4	51780316B0	Fin Nock B.t
025L	3	3	51280308B0	B.H. Tapped Screw B3 x 8
L001	1		TS18610040	Power Transformer
L001		1	TS18610050	Power Transformer
L051	1		LF11000250	Antenna Coil
L051		1	LF11000240	Antenna Coil



● (U): for U.S.A.
● (C): for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
001S	1	1	111H801010	Packing Case (SR5100 Only)
001S	1	1	111H801020	Packing Case (MR1155 Only)
004S	1	1	2112809010	Cushion
005S	1	1	2112809020	Cushion
006S	1	1	9090909040	Polyethylene
010S	1	1	2918107260	Sheet
011S	1	1	2918107380	Sheet
013S	2		9526019010	Serial No. Card
013S		4	9526019020	Serial No. Card
016S	2		9510901020	Label

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
001T	1	1	110H851210	Instruction
002T	1	1	111H851220	Instruction (SR5100 Only)
002T	1	1	111H851250	Instruction (MR1155 Only)
003T	1		28188540201	Guarantee Card
003T		1	2818854040	Guarantee Card
004T	1		2225813010	Envelope
004T		1	9650000050	S. Station Card
001V	1	1	ZA02000070	Extension Antenna

10. ELECTRICAL PARTS

● (U): for U.S.A.
● (C): for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
P100	1	1	YG21120010	P100-TUNER CIRCUIT BOARD
	1	1	ZZ111H0010	P.W. Board, Tuner/Phone
				P.W. Board Assembly
CA01	1	1	DK18103320	P100-CAPACITORS
CA02	1	1	DK18103320	Ceramic 0.01μF +80%—20%
CA03	1	1	EA10601690	Ceramic 0.01μF +80%—20%
CA04	1	1	EA10602530	Elect 10μF 16V
CA05	1	1	DK18103320	Elect 10μF 25V
CA06	1	1	DK18103320	Ceramic 0.01μF +80%—20%
CA07	1	1	DF17103300	Ceramic 0.01μF +80%—20%
CA08	1	1	EA33405030	Film 0.01μF ±20%
CA09	1	1	EA33505090	Elect 0.33μF 50V
CA10	1	1	DK18103320	Elect 3.3μF 50V
				Ceramic 0.01μF +80%—20%
CA11	1	1	DK18103320	Ceramic 0.01μF +80%—20%
CA12	1	1	DK15470370	Ceramic 47pF ±5%
CA14	1	1	DK18103320	Ceramic 0.01μF +80%—20%
CA15	1	1	DF55361090	Film 360pF ±5%
CA16	1	1	DD11100400	Ceramic 10pF ±0.5pF
CA17	1	1	DK18103320	Ceramic 0.01μF +80%—20%
CA18	1	1	EA22601690	Elect 22μF 16V
CA20	1	1	EA22601690	Elect 22μF 16V
CA21	1	1	DK18223320	Ceramic 0.022μF +80%—20%
CA22	1	1	DD11070300	Ceramic 7pF
CV01	1	1	DK18103320	Ceramic 0.01μF +80%—20%
CV02	1	1	DK18103320	Ceramic 0.01μF +80%—20%
C101	1	1	DD11100300	Ceramic 10pF ±0.5pF
C103	1	1	EA33405030	Elect 0.33μF 50V
C104	1	1	DK18103320	Ceramic 0.01μF +80%—20%
C105	1	1	DK18103320	Ceramic 0.01μF +80%—20%
C106	1	1	DK18223320	Ceramic 0.022μF +80%—20%
C107	1	1	DD15150300	Ceramic 15pF ±5%
C108	1	1	DD10050370	Ceramic 5pF ±0.25pF
C109	1	1	DD15150370	Ceramic 15pF ±5%
C110	1	1	DD15301360	Ceramic 300pF ±5%
C111	1	1	DK18103320	Ceramic 0.01μF +80%—20%
C113	1	1	DD10010300	Ceramic 1pF ±0.25pF
C114	1	1	CT11000080	Trimming 10pF ±0.5pF
C115	1	1	DD15150340	Ceramic 15pF ±5%
C116	1	1	DD11100300	Ceramic 10pF ±0.5pF
C117	1	1	DD15300300	Ceramic 30pF ±5%
C118	1	1	DD15150300	Ceramic 15pF ±5%
C119	1	1	DK18223320	Ceramic 0.022μF +80%—20%
C120	1	1	CA32400100	Variable, FM-3, AM-2
C122	1	1	DK18103320	Ceramic 0.01μF +80%—20%
C201	1	1	DK18103320	Ceramic 0.01μF +80%—20%
C202	1	1	DK18223320	Ceramic 0.022μF +80%—20%
C203	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C205	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C206	1	1	EA22505030	Elect 2.2μF 50V
C207	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C208	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C209	1	1	EA10505030	Elect 1μF 50V
C210	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C212	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C214	1	1	DK18403320	Ceramic 0.04μF +80%—20%

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
C215	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C216	1	1	EA47405030	Elect 0.47μF 50V
C217	1	1	EA10602530	Elect 10μF 25V
C218	1	1	EA10601690	Elect 10μF 16V
C219	1	1	DD15151370	Ceramic 150pF ±5%
C222	1	1	DK18403320	Ceramic 0.047μF
C302	1	1	DF17473300	Film 0.047μF ±20%
C303	1	1	DF55471090	Film 470pF ±5%
C304	1	1	EA33505090	Elect 3.3μF 50V
C305	1	1	EA22505030	Elect 2.2μF 50V
C306	1	1	EQ22405030	Elect 0.22μF ±20%
C307	1	1	DD15471360	Ceramic 470pF ±5%
C308	1	1	EA22701690	Elect 220μF 16V
C309	1	1	DD15470370	Ceramic 47pF ±5%
C310	1	1	DD15470370	Ceramic 47pF ±5%
C311	1	1	EA10602530	Elect 10μF 25V
C312	1	1	EA10601690	Elect 10μF 16V
C313	1	1	EA10602530	Elect 10μF 25V
C314	1	1	EA10602530	Elect 10μF 25V
C315	1	1	EA47405030	Elect 0.47μF 50V
C316	1	1	EA47405030	Elect 0.47μF 50V
C317	1	1	DF16272300	Film 2700pF ±10%
C318	1	1	DF16272300	Film 2700pF ±10%
C319	1	1	EA47405030	Elect 0.47μF 50V
C320	1	1	EA47405030	Elect 0.47μF 50V
C321	1	1	EA47502590	Elect 4.7μF 25V
C327	1	1	EA47601690	Elect 47μF 16V
C328	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C329	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C330	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C401	1	1	EA33505030	Elect 3.3μF 50V
C402	1	1	EA33505030	Elect 3.3μF 50V
C403	1	1	DD15470370	Ceramic 47pF ±5%
C404	1	1	DD15470370	Ceramic 47pF ±5%
C405	1	1	EA10701090	Elect 100μF 10V
C406	1	1	EA10701090	Elect 100μF 10V
C407	1	1	DK16221300	Ceramic 220pF ±5%
C408	1	1	DF16221300	Ceramic 220pF ±5%
C409	1	1	DF16123350	Film 0.012μF ±10%
C410	1	1	DF16123350	Film 0.012μF ±10%
C411	1	1	DF16332300	Film 0.0033μF ±10%
C412	1	1	DF16332300	Film 0.0033μF ±10%
C413	1	1	EA10505030	Elect 1μF 50V
C414	1	1	EA10603590	Elect 10μF 35V
C415	1	1	EA10505030	Elect 1μF 50V
C416	1	1	EA10505030	Elect 1μF 50V
C417	1	1	DK16221300	Ceramic 220pF ±10%
C418	1	1	DK16221300	Ceramic 220pF ±10%
RA02	1	1	GD05103140	P100-RESISTORS
RA03	1	1	GD05103140	(All Resistors are ±5% and ¼W)
RA04	1	1	GD05223140	10kΩ
RA05	1	1	GD05222140	10kΩ
RA06	1	1	GD05121140	22kΩ
RA07	1	1	GD05102140	2.2kΩ
RA08	1	1	GD05563140	120Ω
RA09	1	1	GD05273140	1kΩ
RA10	1	1	GD05104140	56kΩ
RA11	1	1	GD05333140	27kΩ
				100kΩ
				33kΩ

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
RA12	1	1	GD05104140	100k Ω
RA13	1	1	GD05152140	1.5k Ω
RA14	1	1	GD05222140	2.2k Ω
RA15	1	1	GD05470140	47 Ω
RA18	1	1	GD05473140	47k Ω
RA19	1	1	GD05222140	2.2k Ω
R101	1	1	GD05104140	100k Ω
R102	1	1	GD05680140	68 Ω
R103	1	1	GD05101140	100 Ω
R104	1	1	GD05101140	100 Ω
R105	1	1	GD05223140	22k Ω
R107	1	1	GD05223140	22k Ω
R108	1	1	GD05472140	4.7k Ω
R109	1	1	GD05102140	1k Ω
R110	1	1	GD05183140	18k Ω
R111	1	1	GD05103140	10k Ω
R112	1	1	GD05272140	2.7k Ω
R113	1	1	GD05103140	10k Ω
R114	1	1	GD05101140	100 Ω
R115	1	1	GD05470140	47 Ω
R201	1	1	GD05331140	330 Ω
R202	1	1	GD05272140	2.7k Ω
R203	1	1	GD05153140	15k Ω
R204	1	1	GD05331140	330 Ω
R205	1	1	GD05561140	560 Ω
R207	1	1	RA05030090	50k Ω (B) Trimming
R208	1	1	GD05104140	100k Ω
R209	1	1	GD05103140	10k Ω
R210	1	1	GD05222140	2.2k Ω
R211	1	1	GD05124140	120k Ω
R212	1	1	GD05682140	6.8k Ω
R213	1	1	GD05470140	47 Ω
R214	1	1	GD05103140	10k Ω
R215	1	1	GD05332140	3.3k Ω
R216	1	1	GD05331140	330 Ω
R219	1	1	GD05154140	150k Ω
R220	1	1	GD05274140	270k Ω
R221	1	1	GD05682140	6.8k Ω
R227	1	1	GD05473140	47k Ω
R301	1	1	GD05473140	47k Ω
R302	1	1	GD05222140	2.2k Ω
R303	1	1	GD05153140	15k Ω
R304	1	1	RA05020160	5k Ω (B) Trimming
R305	1	1	GD05102140	1k Ω
R306	1	1	GD05101140	100 Ω
R307	1	1	GD05223140	22k Ω
R308	1	1	GD05223140	22k Ω
R309	1	1	GD05473140	47k Ω
R310	1	1	GD05473140	47k Ω
R311	1	1	GD05393140	39k Ω
R312	1	1	GD05393140	39k Ω
R313	1	1	RA05040090	500k Ω (B) Trimming
R315	1	1	GD05472140	4.7k Ω
R316	1	1	GD05472140	4.7k Ω
R317	1	1	GD05472140	4.7k Ω
R318	1	1	GD05472140	4.7k Ω

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
R319	1	1	GD05273140	27k Ω
R320	1	1	GD05273140	27k Ω
R321	1	1	GD05473140	47k Ω
R322	1	1	GD05184140	180k Ω
R323	1	1	GD05564140	560k Ω
R324	1	1	GD05564140	560k Ω
R325	1	1	GD05392140	3.9k Ω
R326	1	1	GD05392140	3.9k Ω
R327	1	1	GD05821140	820 Ω
R328	1	1	GD05821140	820 Ω
R329	1	1	GD05473140	47k Ω
R330	1	1	GD05473140	47k Ω
R331	1	1	GD05101140	100 Ω
R332	1	1	GD05101140	100 Ω
R333	1	1	GD05272140	2.7k Ω
R334	1	1	GD05103140	10k Ω
R335	1	1	GD05222140	2.2k Ω
R337	1	1	GD05222140	2.2k Ω
R401	1	1	GD05222140	2.2k Ω
R402	1	1	GD05222140	2.2k Ω
R403	1	1	GD05471140	470 Ω
R404	1	1	GD05471140	470 Ω
R405	1	1	GD05563140	56k Ω
R406	1	1	GD05563140	56k Ω
R407	1	1	GD05394140	390k Ω
R408	1	1	GD05394140	390k Ω
R409	1	1	GD05184140	180k Ω
R410	1	1	GD05184140	180k Ω
R411	1	1	GD05274140	270k Ω
R412	1	1	GD05274140	270k Ω
R413	1	1	GD05223140	22k Ω
R414	1	1	GD05223140	22k Ω
R417	1	1	GD05224140	220k Ω
R418	1	1	GD05224140	220k Ω
R419	1	1	GD05223140	22k Ω
R420	1	1	GD05223140	22k Ω
R421	1	1	GG05220140	22 Ω
R422	1	1	GD05184140	180k Ω
R423	1	1	GD05471140	470 Ω
R424	1	1	GD05471140	470 Ω
P100-SEMICONDUCTORS				
QA01	1	1	HC10025060	IC μ PC1178C
QA02	1	1	HV00006120	Varistor MV-203
QA03	1	1	HT326342B0	Transistor 2SC2634(S or T)
QA04	1	1	HD20001210	Diode IS2473
Q101	1	1	HF400451B0	F.E.T. 3SK45(B)
Q102	1	1	HT310471C0	Transistor 2SC1047(C)
Q103	1	1	HT308291C0	Transistor 2SC829(C)
Q201	1	1	HT308291C0	Transistor 2SC829(C)
Q202	1	1	HC10028030	IC LA1231
Q203	1	1	HD20001210	Diode IS2473
Q204	1	1	HD20001210	Diode IS1555
Q205	1	1	HD20001210	Diode IS2473
Q301	1	1	HC10024060	IC μ PC1161C
Q302	1	1	HD20001210	Diode IS1555

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

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
Q303	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q304	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q305	1	1	HD20001210	Diode IS1555
Q401	1	1	HC10012060	IC μ PC1024H
Q402	1	1	HC10012060	IC μ PC1024H
P100-MISCELLANEOUS				
FA01	1	1	FF10045200	Ceramic Filter 450kHz
F201	1	1	FF11070050	Ceramic Filter 10.7MD1
F202	1	1	FF11070050	Ceramic Filter 10.7MD1
F203	1	1	FF11070050	Ceramic Filter 10.7MD1
JV01	1	1	YT02040360	Terminal, RCA Phono/Aux
JV02	1	1	YT02040360	Terminal, RCA Tape, In/Out
JV03	1	1	YT01050010	Terminal, Antenna
LA01	1	1	LC11540020	Choke Coil 150 μ H
LA04	1	1	LO10010480	OSC Coil
LA05	1	1	LI10010730	I.F.T. 450kHz
LA06	1	1	LI10010740	I.F.T. 450kHz
L101	1	1	LA12026170	Ant. Coil
L102	1	1	LL24800030	Coil
L103	1	1	LK11800030	Coil
L104	1	1	LC17510010	Choke Coil 0.75 μ H
L105	1	1	LO12036010	OSC Coil
L106	1	1	LI10016010	I.F.T.
L201	1	1	LI14016240	I.F.T.
L203	1	1	LC11830010	Choke Coil 18 μ H
L301	1	1	LS20013010	M.P.X. Coil
L302	1	1	LS20013010	M.P.X. Coil
KS00	1	1	SR04040150	Rotary Switch, Selector
P700-MAIN AMP./POWER SUPPLY CIRCUIT BOARD				
P700	1	1	YK211410B0	P.W. Board, Main Amp./Power Supply
	1	1	ZZ111H10B0	P.W. Board Assembly
	1	1	ZZ111H20B0	P.W. Board Assembly
P700-CAPACITORS				
CN01	1	1	DK18103320	Ceramic 0.01 μ F +80%—20%
CN02	1	1	EA10605030	Elect 10 μ F 25V
CN03	1	1	EA10701030	Elect 100 μ F 10V
CN04	1	1	EA33700690	Elect 330 μ F 6.3V
C701	1	1	DK16561300	Ceramic 560pF $\pm$ 10%
C702	1	1	DK16561300	Ceramic 560pF $\pm$ 10%
C703	1	1	EA47505030	Elect 4.7 μ F 50V
C704	1	1	EA47505030	Elect 4.7 μ F 50V
C707	1	1	EA10701030	Elect 100 μ F 10V
C708	1	1	EA10701030	Elect 100 μ F 10V
C709	1	1	EA10705090	Elect 100 μ F 50V
C710	1	1	EA10705090	Elect 100 μ F 50V
C713	1	1	DF17473300	Film 0.047 μ F $\pm$ 20%
C714	1	1	DF17473300	Film 0.047 μ F $\pm$ 20%
C717	1	1	DD10050370	Ceramic 5pF $\pm$ 0.25pF
C718	1	1	DD10050370	Ceramic 5pF $\pm$ 0.25pF
C719	1	1	DK16332300	Ceramic 3300pF $\pm$ 10%
C720	1	1	DK16332300	Ceramic 3300pF $\pm$ 10%
C721	1	1	DK16332300	Ceramic 3300pF $\pm$ 10%
C722	1	1	DK16332300	Ceramic 3300pF $\pm$ 10%
C723	1	1	DF17104540	Film 0.1 μ F $\pm$ 20%
C724	1	1	DF17104540	Film 0.1 μ F $\pm$ 20%
C725	1	1	DD11100550	Ceramic 10pF
C726	1	1	DD11100550	Ceramic 10pF

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
C727	1	1	DD11100550	Ceramic 10pF $\pm$ 0.5pF
C728	1	1	DD11100550	Ceramic 10pF $\pm$ 0.5pF
C729	1	1	DD15390370	Ceramic 39pF $\pm$ 5%
C730	1	1	DD15390370	Ceramic 39pF $\pm$ 5%
C731	1	1	DD11100370	Ceramic 10pF $\pm$ 0.5pF
C732	1	1	DD11100370	Ceramic 10pF $\pm$ 0.5pF
C801	1	1	EB10905020	Elect 1000 μ F 50V
C802	1	1	EB10905020	Elect 1000 μ F 50V
C803	1	1	DK18103510	Ceramic 0.01 μ F +80%—20%
C804	1	1	DK18103510	Ceramic 0.01 μ F +80%—20%
C805	1	1	DK18103510	Ceramic 0.01 μ F +80%—20%
C806	1	1	DK18103510	Ceramic 0.01 μ F +80%—20%
C807	1	1	EA10805030	Elect 10000 μ F 50V
C808	1	1	EA22605090	Elect 10 μ F 50V
C809	1	1	EA10605030	Elect 10 μ F 50V
C810	1	1	DK18103320	Ceramic 0.01 μ F +80%—20%
C811	1	1	EA47701690	Elect 470 μ F 16V
C812	1	1	EA10603590	Elect 10 μ F 35V
C813	1	1	EA10605030	Elect 10 μ F 50V
C814	1	1	EA10605030	Elect 10 μ F 50V
C815	1	1	DK18103320	Ceramic 0.01 μ F +80%—20%
P700-RESISTORS (All Resistors are $\pm$ 5% and $\frac{1}{4}$ W)				
RN01	1	1	GD05472140	4.7k Ω
RN02	1	1	GD05333140	33k Ω
RN04	1	1	GD05103140	10k Ω
RN05	1	1	GD05103140	10k Ω
RN06	1	1	GD05103140	10k Ω
RN07	1	1	GD05223140	22k Ω
RN08	1	1	GD05103140	10k Ω
RN09	1	1	GD05333140	33k Ω
RN10	1	1	GG05220140	22 Ω
RN11	1	1	GD05223140	22k Ω
RN12	1	1	GD05184140	180k Ω
RN13	1	1	GA05681020	680 Ω 2W
R701	1	1	GD05102140	1k Ω
R702	1	1	GD05102140	1k Ω
R703	1	1	GD05184140	180k Ω
R704	1	1	GD05184140	180k Ω
R705	1	1	GD05333140	33k Ω
R706	1	1	GD05333140	33k Ω
R709	1	1	GD05102140	1k Ω
R710	1	1	GD05102140	1k Ω
R713	1	1	GD05333140	33k Ω
R714	1	1	GD05333140	33k Ω
R715	1	1	GN10332030	0.33 Ω $\pm$ 10% 3W
R716	1	1	GN10332030	0.33 Ω $\pm$ 10% 3W
R717	1	1	GN10332030	0.33 Ω $\pm$ 10% 3W
R718	1	1	GN10332030	0.33 Ω $\pm$ 10% 3W
R719	1	1	GG05102140	1k Ω
R720	1	1	GG05102140	1k Ω
R721	1	1	GG05102140	1k Ω
R722	1	1	GG05102140	1k Ω
R723	1	1	GD05123140	12k Ω
R723	1	1	GD05153140	15k Ω

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
R724	1		GD05123140	12k Ω
R724		1	GD05153140	15k Ω
R725	1		GD05563140	56k Ω
R725		1	GD05473140	47k Ω
R726	1		GD05563140	56k Ω
R726		1	GD05473140	47k Ω
R727	1		GD05123140	12k Ω
R727		1	GD05153140	15k Ω
R728	1		GD05123140	12k Ω
R728		1	GD05153140	15k Ω
R729	1	1	GA05100020	10 Ω 2W
R730	1	1	GA05100020	10 Ω 2W
R732	1	1	RC10022120	2.2 Ω $\pm 10\%$ $\frac{1}{2}$ W
R733	1	1	RC10022120	2.2 Ω $\pm 10\%$ $\frac{1}{2}$ W
R801	1	1	GG05102140	1k Ω
R802	1	1	GG05102140	1k Ω
R803	1	1	GG05102140	1k Ω
R804	1	1	GP05131050	130 Ω 5W
R805	1	1	GD05822140	8.2k Ω
R806	1	1	GD05822140	8.2k Ω
R851	1	1	RC10225120	2.2m Ω $\pm 10\%$ $\frac{1}{2}$ W
P700-SEMICONDUCTORS				
QN01	1	1	HD20005010	Diode WO6B
QN02	1	1	HD20001210	Diode IS2473
QN03	1	1	HT326342B0	Transistor 2SC2634(S or T)
QN04	1	1	HT326342B0	Transistor 2SC2634(S or T)
QN05	1	1	HT326342B0	Transistor 2SC2634(S or T)
QN06	1	1	HT309452B0	Transistor 2SC945(Q or R)
QN07	1	1	HD20003210	Diode IS2471
QN08	1	1	HD20001210	Diode IS2473
Q701	1	1	HC10031030	IC STK00502
Q702	1	1	HC10031030	IC STK00502
Q703	1	1	HT107332B0	Transistor 2SA733(Q or R)
Q704	1	1	HT107332B0	Transistor 2SA733(Q or R)
Q705	1	1	HT309452B0	Transistor 2SC945(Q or R)
Q706	1	1	HT309452B0	Transistor 2SC945(Q or R)
Q709	1	1	HD20005010	Diode WO6B
Q710	1	1	HD20005010	Diode WO6B
Q711	1	1	HD20005010	Diode WO6B
Q712	1	1	HD20005010	Diode WO6B
Q713	1	1	HD20001210	Diode IS2473
Q714	1	1	HD20001210	Diode IS2473
Q715	1	1	HD20001210	Diode IS2473
Q716	1	1	HD20001210	Diode IS2473
Q717	1	1	HD20001210	Diode IS2473
Q718	1	1	HD20001210	Diode IS2473
Q719	1	1	HD20001210	Diode IS2473
Q720	1	1	HD20001210	Diode IS2473
Q721	1	1	HD20001210	Diode IS2473
Q722	1	1	HD20001210	Diode IS2473
Q723	1	1	HD20001210	Diode IS2473
Q724	1	1	HD20001210	Diode IS2473
Q725	1	1	HC10030030	IC STK3062
Q801	1	1	HD20011290	Diode S3V20
Q802	1	1	HD20011290	Diode S3V20
Q803	1	1	HD20011290	Diode S3V20
Q804	1	1	HD20011290	Diode S3V20
Q805	1	1	HE10001030	Diode DS133B
Q806	1	1	HE10001030	Diode DS133B
Q807	1	1	HT403131Q0	Transistor 2SD313(E)

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
Q808	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q809	1	1	HD30021090	Zener BZ-140
Q810	1	1	HD20005010	Diode WO6B
P700-MISCELLANEOUS				
LN01	1	1	LY20240140	Relay
L701	1	1	LL23915120	Coil
L702	1	1	LL23915120	Coil
F852		1	FS10100500	Fuse 1A 250V
F853		1	FS10100500	Fuse 1A 250V
J853		1	YJ08000170	Jack, Fuse Holder
J854		1	YJ08000170	Jack, Fuse Holder
J855		1	YJ08000170	Jack, Fuse Holder
J856		1	YJ08000170	Jack, Fuse Holder
PE00-TONE AMP. CIRCUIT BOARD				
PE00	1	1	YK211410A0	P.W. Board, Tone Amp.
	1	1	ZZ111H10A0	P.W. Board Assembly
PE00-CAPACITORS				
CE01	1	1	EA22405040	Elect 0.22 μ F 50V
CE02	1	1	EA22405040	Elect 0.22 μ F 50V
CE05	1	1	EE47505040	Elect 4.7 μ F 50V
CE06	1	1	EE47505040	Elect 4.7 μ F 50V
CE07	1	1	DD15101370	Ceramic 100pF $\pm 5\%$
CE08	1	1	DD15101370	Ceramic 100pF $\pm 5\%$
CE09	1	1	EA10605030	Elect 10 μ F 50V
CE10	1	1	EA10605030	Elect 10 μ F 50V
CE11	1	1	DF17472300	Film 0.0047 μ F $\pm 20\%$
CE12	1	1	DF17472300	Film 0.047 μ F $\pm 20\%$
CE13	1	1	DF17103300	Film 0.01 μ F $\pm 20\%$
CE14	1	1	DF17103300	Film 0.01 μ F $\pm 20\%$
CE15	1	1	DF17103300	Film 0.01 μ F $\pm 20\%$
CE16	1	1	DF17103300	Film 0.01 μ F $\pm 20\%$
CE17	1	1	EA10505030	Elect 1 μ F 50V
CE18	1	1	EA10505030	Elect 1 μ F 50V
CE21	1	1	DF17472300	Film 0.0047 μ F $\pm 20\%$
CE22	1	1	DF17472300	Film 0.0047 μ F $\pm 20\%$
CE23	1	1	EA33505090	Elect 3.3 μ F 50V
CE24	1	1	EA33505090	Elect 3.3 μ F 50V
CE25	1	1	DF17222350	Film 0.0022 μ F $\pm 20\%$
CE26	1	1	DF17222350	Film 0.0022 μ F $\pm 20\%$
CE27	1	1	EA10603530	Elect 10 μ F 35V
PE00-RESISTORS (All Resistors are $\pm 5\%$ and $\frac{1}{2}$ W)				
RE01	1	1	RQ02040020	50k Ω (B) x 2, 200k Ω Variable
RE03	1	1	GD05391140	390 Ω
RE04	1	1	GD05391140	390 Ω
RE05	1	1	GD05333140	33k Ω
RE06	1	1	GD05472140	4.7k Ω
RE07	1	1	GD05105140	1M Ω
RE08	1	1	GD05105140	1M Ω
RE09	1	1	GD05182140	1.8k Ω
RE10	1	1	GD05182140	1.8k Ω
RE11	1	1	GD05273140	27k Ω

● (U):for U.S.A.
● (C):for Canada

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
RE12	1	1	GD05273140	27k Ω
RE13	1	1	GD05822140	8.2k Ω
RE14	1	1	GD05822140	8.2k Ω
RE15	1	1	GD05474140	470k Ω
RE16	1	1	GD05474140	470k Ω
RE17	1	1	RM01040150	100k Ω (B) x 2 Variable
RE19	1	1	GD05123140	12k Ω
RE20	1	1	GD05123140	12k Ω
RE21	1	1	GD05822140	8.2k Ω
RE22	1	1	GD05822140	8.2k Ω
RE23	1	1	GD05154140	150k Ω
RE24	1	1	GD05154140	150k Ω
RE25	1	1	GD05562140	5.6k Ω
RE26	1	1	GD05562140	5.6k Ω
RE27	1	1	RM01040150	100k Ω (B) x 2 Variable
RE29	1	1	GD05562140	5.6k Ω
RE30	1	1	GD05562140	5.6k Ω
RE31	1	1	GD05273140	27k Ω
RE32	1	1	GD05273140	27k Ω
RE33	1	1	GD05273140	27k Ω
RE34	1	1	GD05273140	27k Ω
RE35	1	1	RM01040150	100k Ω (B) x 2 Variable
RE37	1	1	GD05273140	27k Ω
RE38	1	1	GD05273140	27k Ω
RE39	1	1	GD05334140	330k Ω
RE40	1	1	GD05334140	330k Ω
RE41	1	1	GD05225140	2.2M Ω
RE42	1	1	GD05225140	2.2M Ω
RE43	1	1	GD05683140	68k Ω
RE44	1	1	GD05683140	68k Ω
RE45	1	1	GD05103140	10k Ω
RE46	1	1	GD05103140	10k Ω
RE47	1	1	GD05221140	220 Ω
RE48	1	1	GD05221140	220 Ω
RE49	1	1	GD05473140	47k Ω
RE50	1	1	GD05473140	47k Ω
RE51	1	1	GD05102140	1k Ω
RE52	1	1	GD05102140	1k Ω
RE53	1	1	GD05223140	22k Ω
RE54	1	1	GD05223140	22k Ω
RE55	1	1	GD05332140	3.3k Ω
RE56	1	1	GD05332140	3.3k Ω
RE57	1	1	GD05100140	10 Ω
QE01	1	1	HT326342B0	Transistor 2SC2634(S or T)
QE02	1	1	HT326342B0	Transistor 2SC2634(S or T)
QE03	1	1	HT111272B0	Transistor 2SA1127(S or T)
QE04	1	1	HT111272B0	Transistor 2SA1127(S or T)
QE05	1	1	HT326342B0	Transistor 2SC2634(S or T)
QE06	1	1	HT326342B0	Transistor 2SC2634(S or T)
QE07	1	1	HT111272B0	Transistor 2SA1127(S or T)
QE08	1	1	HT111272B0	Transistor 2SA1127(S or T)

PE00-SEMICONDUCTORS

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
PL01	1	1	YK110H1210 ZZ110H1210	PL01-L.E.D. DRIVER CIRCUIT BOARD P.W. Board, L.E.D. Driver P.W. Board Assembly
CL01	1	1	EA10505030	PL01-CAPACITORS Elect 1 μ F 50V
CL02	1	1	EA47601630	Elect 47 μ F 16V
CL03	1	1	EA33505030	Elect 3.3 μ F 50V
CL04	1	1	EA33505030	Elect 3.3 μ F 50V
CL05	1	1	EA10505030	Elect 1 μ F 50V
CL06	1	1	EA10505030	Elect 1 μ F 50V
CL07	1	1	EA10505030	Elect 1 μ F 50V
CL08	1	1	EA10505030	Elect 1 μ F 50V
CL09	1	1	DK18103310	Ceramic 0.01 μ F
CL10	1	1	DK18103310	Ceramic 0.01 μ F
RL01	1	1	RA01040110	PL01-RESISTORS (All Resistors are $\pm 5\%$ and $\frac{1}{4}W$) 100k Ω (B) Trimming 0.1W
RL02	1	1	GD05104140	100k Ω
RL03	1	1	GD05103140	10k Ω
RL04	1	1	GD05102140	1k Ω
RL05	1	1	GD05103140	10k Ω
RL06	1	1	GD05102140	1k Ω
RL15	1	1	GD05103140	10k Ω
RL16	1	1	GD05103140	10k Ω
RL17	1	1	GD05104140	100k Ω
RL18	1	1	GD05104140	100k Ω
RL19	1	1	GD05103140	10k Ω
RL20	1	1	GD05103140	10k Ω
RL21	1	1	GD05103140	10k Ω
RL22	1	1	GD05103140	10k Ω
RL23	1	1	RA02030060	20k Ω (B) Trimming 0.1W
RL24	1	1	RA02030060	20k Ω (B) Trimming 0.1W
RL25	1	1	GD05563140	56k Ω
RL26	1	1	GD05563140	56k Ω
RL27	1	1	GD05104140	100k Ω
RL28	1	1	GD05104140	100k Ω
RL40	1	1	GG05470140	470 Ω
RL42	1	1	GD05822140	8.2k Ω
RL43	1	1	GD05333140	33k Ω
QL01	1	1	HC10003320	PL01-SEMICONDUCTORS IC IRZE11
QL02	1	1	HC10003090	IC JRC4558D
QL03	1	1	HC10008370	IC TL4890
QL04	1	1	HC10008370	IC TL4890
QL07	1	1	HD30076090	Zener WZ-038
QL08	1	1	HD30076090	Zener WX-038
QL09	1	1	HD20001210	Diode IS2473
QL10	1	1	HD20001210	Diode IS2473
QL11	1	1	HD20001210	Diode IS2473

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
PL02	1	1	YK110H1220	PL02-L.E.D. CIRCUIT BOARD P.W. Board L.E.D.
	1	1	ZZ110H1220	P.W. Board Assembly
				PL02-RESISTORS (All Resistors are $\pm 5\%$ and $\frac{1}{4}W$)
RL07	1	1	GD05122140	1.2k Ω
RL08	1	1	GD05122140	1.2k Ω
RL09	1	1	GD05122140	1.2k Ω
RL10	1	1	GD05471140	470 Ω
RL11	1	1	GD05471140	470 Ω
RL12	1	1	GD05222140	2.2k Ω
RL13	1	1	GD05102140	1k Ω
RL14	1	1	GD05222140	2.2k Ω
RL29	1	1	GD05471140	470 Ω
RL30	1	1	GD05471140	470 Ω
RL31	1	1	GD05471140	470 Ω
RL32	1	1	GD05471140	470 Ω
RL33	1	1	GD05471140	470 Ω
RL34	1	1	GD05471140	470 Ω
RL35	1	1	GD05471140	470 Ω
RL36	1	1	GD05471140	470 Ω
RL37	1	1	GD05122140	1.2k Ω
RL38	1	1	GD05122140	1.2k Ω
RL39	1	1	GD05471140	470 Ω
				PL02-SEMICONDUCTORS
QL12	1	1	HI10012030	L.E.D. SLP154B
QL13	1	1	HI10012030	L.E.D. SLP154B
QL14	1	1	HI10012030	L.E.D. SLP154B
QL15	1	1	HI10013030	L.E.D. SLP254B
QL16	1	1	HI10013030	L.E.D. SLP254B
QL17	1	1	HI10012030	L.E.D. SLP154B
QL18	1	1	HI10013030	L.E.D. SLP254B
QL19	1	1	HI10012030	L.E.D. SLP154B
QL20	1	1	HI10013030	L.E.D. SLP254B
QL21	1	1	HI10013030	L.E.D. SLP254B
QL22	1	1	HI10013030	L.E.D. SLP254B
QL23	1	1	HI10013030	L.E.D. SLP254B
QL24	1	1	HI10013030	L.E.D. SLP254B
QL25	1	1	HI10013030	L.E.D. SLP254B
QL26	1	1	HI10013030	L.E.D. SLP254B
QL27	1	1	HI10013030	L.E.D. SLP254B
QL28	1	1	HI10013030	L.E.D. SLP254B
QL29	1	1	HI10012030	L.E.D. SLP154B
QL30	1	1	HI10012030	L.E.D. SLP154B
				PS00-SWITCH CIRCUIT BOARD P.W. Board, Push Switch
PS00	1	1	YF111H0010	P.W. Board Assembly
	1	1	ZZ111H1010	
				PS00-CAPACITORS
CS01	1	1	DF17122300	Film 1200pF $\pm 20\%$
CS02	1	1	DF17122300	Film 1200pF $\pm 20\%$
CS03	1	1	EA10405030	Elect 0.1 μ F 50V
CS04	1	1	EA10405030	Elect 0.1 μ F 50V
CS05	1	1	EA33405030	Elect 0.33 μ F 50V
CS06	1	1	EA33405030	Elect 0.33 μ F 50V

REF. DESIG.	Q'TY		PART NO.	DESCRIPTION
	U	C		
RS01	1	1	GD05332140	PS00-RESISTORS (All Resistors are $\pm 5\%$ and $\frac{1}{4}W$) 3.3k Ω
RS02	1	1	GD05332140	3.3k Ω
RS03	1	1	GD05103140	10k Ω
RS04	1	1	GD05103140	10k Ω
RS05	1	1	GD05392140	3.9k Ω
RS06	1	1	GD05392140	3.9k Ω
RS07	1	1	GD05273140	27k Ω
RS08	1	1	GD05273140	27k Ω
RS09	1	1	GD05273140	27k Ω
RS10	1	1	GD05273140	27k Ω
				PS00-SWITCH Push Switch (SS01-1 ~ SS01-7)
SS01	1	1	SP04070060	
				PT00-SPEAKER SWITCH CIRCUIT BOARD P.W. Board, Speaker Switch
PT00	1	1	YK211410i0	
	1	1	ZZ111H10i0	
				PT00-RESISTORS
RT01	1	1	GA05331020	330 Ω $\pm 5\%$ 2W
RT02	1	1	GA05331020	330 Ω $\pm 5\%$ 2W
				PT00-SWITCH Push Switch, Speaker
ST01	1	1	SP04020310	
				PW00-HEADPHONE JACK CIRCUIT BOARD P.W. Board, Headphone Jack
PW00	1	1	YK211410E0	P.W. Board Assembly
	1	1	ZZ211410E0	
JW01	1	1	YJ01001340	Jack, Headphone
				PW50-SPEAKER TERMINAL CIRCUIT BOARD P.W. Board, Speaker Terminal
PW50	1	1	YK211410J0	P.W. Board Assembly
	1	1	ZZ111H10J0	
JW51	1	1	YT03040180	Terminal
JW52	1	1	YT03040180	Terminal
				PY00-STEREO LED CIRCUIT BOARD P.W. Board, Stereo L.E.D.
PY00	1	1	YK211410F0	P.W. Board Assembly
	1	1	ZZ211410F0	
RY01	1	1	GD05222140	Resistor 2.2k Ω $\frac{1}{4}W$
QY01	1	1	HI10009020	L.E.D. LN26RP
				PZ00-DIAL POINTER LAMP CIRCUIT BOARD P.W. Board, Dial Pointer Lamp
PZ00	1	1	YK211410G0	P.W. Board Assembly
	1	1	ZZ111H10G0	
VZ01	1	1	IN10080530	Lamp 55mA 8V

(W01-99) Assembly and Wiring
(T01-99) Adjustment
(X01-00) Correction

11 TECHNICAL SPECIFICATIONS

[FOR U.S.A. & CANADA]

AMPLIFIER SECTION

RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER

PER CHANNEL, BOTH CHANNELS DRIVEN 63 W

POWER BAND 20 Hz to 20 kHz

TOTAL HARMONIC DISTORTION 0.05%

LOAD IMPEDANCE 4 OHMS

RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER

PER CHANNEL, BOTH CHANNELS DRIVEN 50 W

POWER BAND 20 Hz to 20 kHz

TOTAL HARMONIC DISTORTION 0.025%

LOAD IMPEDANCE 8 OHMS

I.M. Distortion

(I.H.F. method, 60 Hz and 7 kHz mixed 4:1 at rated power output)

at 8 ohm load impedance 0.025%

at 4 ohm load impedance 0.05%

Damping Factor (at 20 Hz) 50

PREAMPLIFIER SECTION

Phono

Input Overload at 1 kHz 130 mV

Equivalent Input Noise ("A" Weighted) 0.3 μ V

Dynamic Range

(Dynamic Range is the ratio of input overload to equivalent input noise) 113 dB

Input Sensitivity 2.7 mV

Input Impedance 47 kohms

Input Capacitance 220 pF

Frequency Response, RIAA 20 Hz to 20 kHz ± 0.3 dB

Signal-to-Noise Ratio ("A" Weighted)

(at rated output and 10 mV input) 88 dB

High Level (Aux and Tape)

Input Sensitivity 160 mV

Input Impedance 20 kohms

Frequency Response

(includes power amp) 10 Hz to 60 kHz ± 1.0 dB

Signal-to-Noise Ratio ("A" Weighted)

(ref. to rated output and 775 mV input) 98 dB

Output Levels

Tape Out (ref. 10 mV at Phone inputs) 580 mV

Output Impedance

Tape Out 500 ohms

FM TUNER SECTION

Sensitivity

IHF Usable 10.3 dBf (1.8 μ V)

IHF 50 dB Quieting (Mono) 13.9 dBf (2.5 μ V)

(Stereo) 36.8 dBf (38 μ V)

Quieting Slope (Mono)

RF Input for 30 dB Quieting 8.2 dBf (1.4 μ V)

Quieting at:

20 dBf (5.5 μ V) 55 dB

25 dBf (10 μ V) 60 dB

40 dBf (55 μ V) 74 dB

65 dBf (1000 μ V) 78 dB

Quieting Slope (Stereo)

Quieting at:

30 dBf (17 μ V)	40 dB
40 dBf (55 μ V)	52 dB
50 dBf (173 μ V)	62 dB
65 dBf (1000 μ V)	70 dB

Distortion (Mono) at 65 dBf (1000 μ V)

100 Hz	0.2%
1000 Hz	0.15%
6000 Hz	0.2%

Distortion (Stereo) at 65 dBf (1000 μ V)

100 Hz	0.25%
1000 Hz	0.25%
6000 Hz	0.35%

Frequency Response

30 Hz to 15 kHz

Mono and Stereo	+0.5 dB, -1.0 dB
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Capture Ratio at 65 dBf (1000 μ V)	1.0 dB
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Alternate Channel Selectivity	65 dB
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Spurious Response Rejection	90 dB
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Image Response Rejection	55 dB
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I.F. Rejection (Balanced)	85 dB
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A.M. Suppression	55 dB
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Stereo Separation at 1 kHz	45 dB
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Subcarrier Rejection	65 dB
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AM TUNER SECTION

IHF Usable Sensitivity	20 μ V
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Signal-to-Noise Ratio	50 dB
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Alternate Channel Selectivity	45 dB
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Image Rejection	45 dB
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Spurious Response Rejection	55 dB
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I.F. Rejection	40 dB
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GENERAL

Power Requirements	120 VAC, 60 Hz
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Power Consumption at rated output, both channels operating	215 W
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Idling Power (Volume Control at zero)	30 W
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Dimensions:

Panel Width	466 mm (18-3/8")
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Panel Height	140 mm (5-1/2")
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Depth	353 mm (13-7/8")
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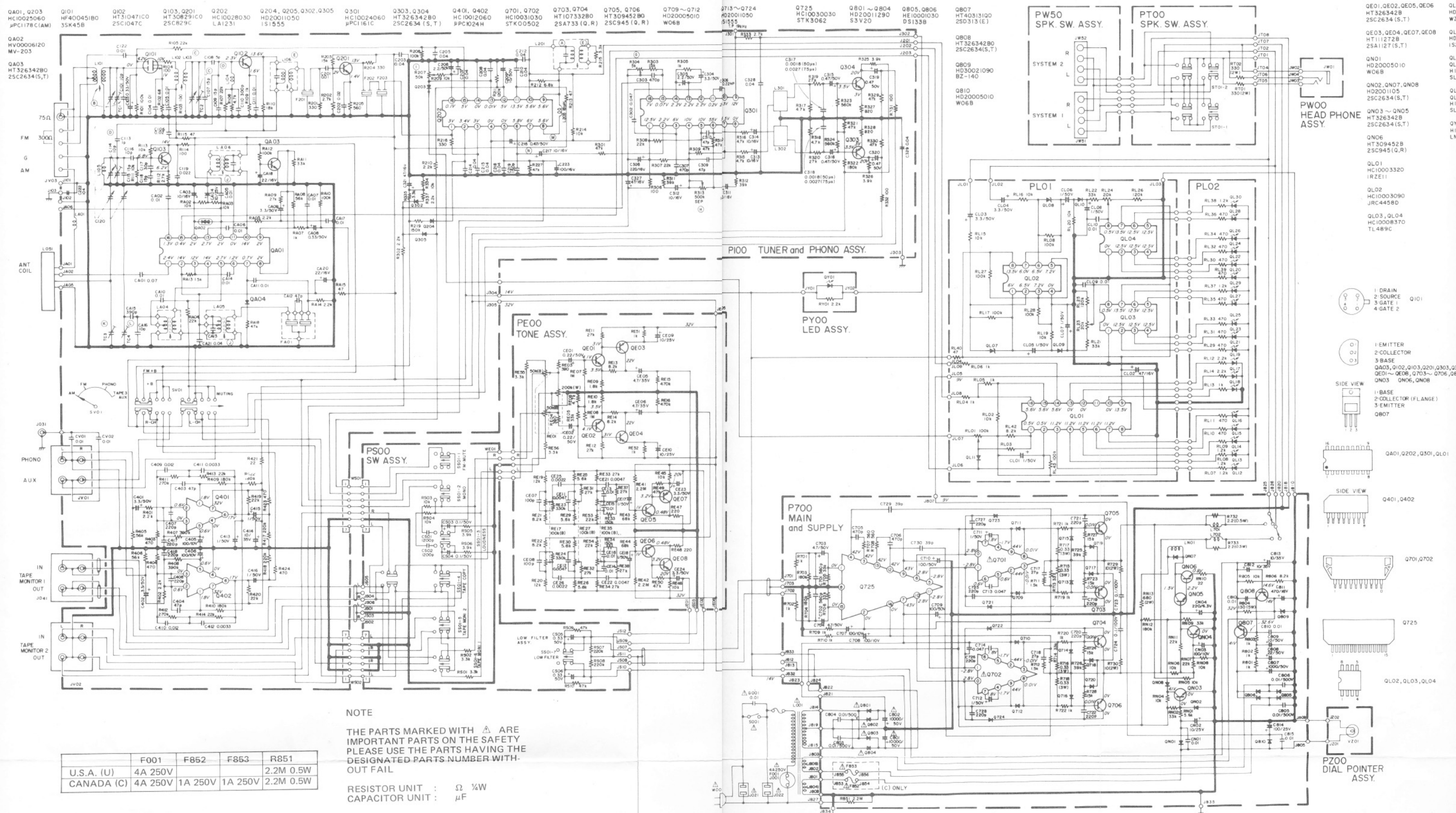
Weight:

Unit alone	10 kg (22 lbs)
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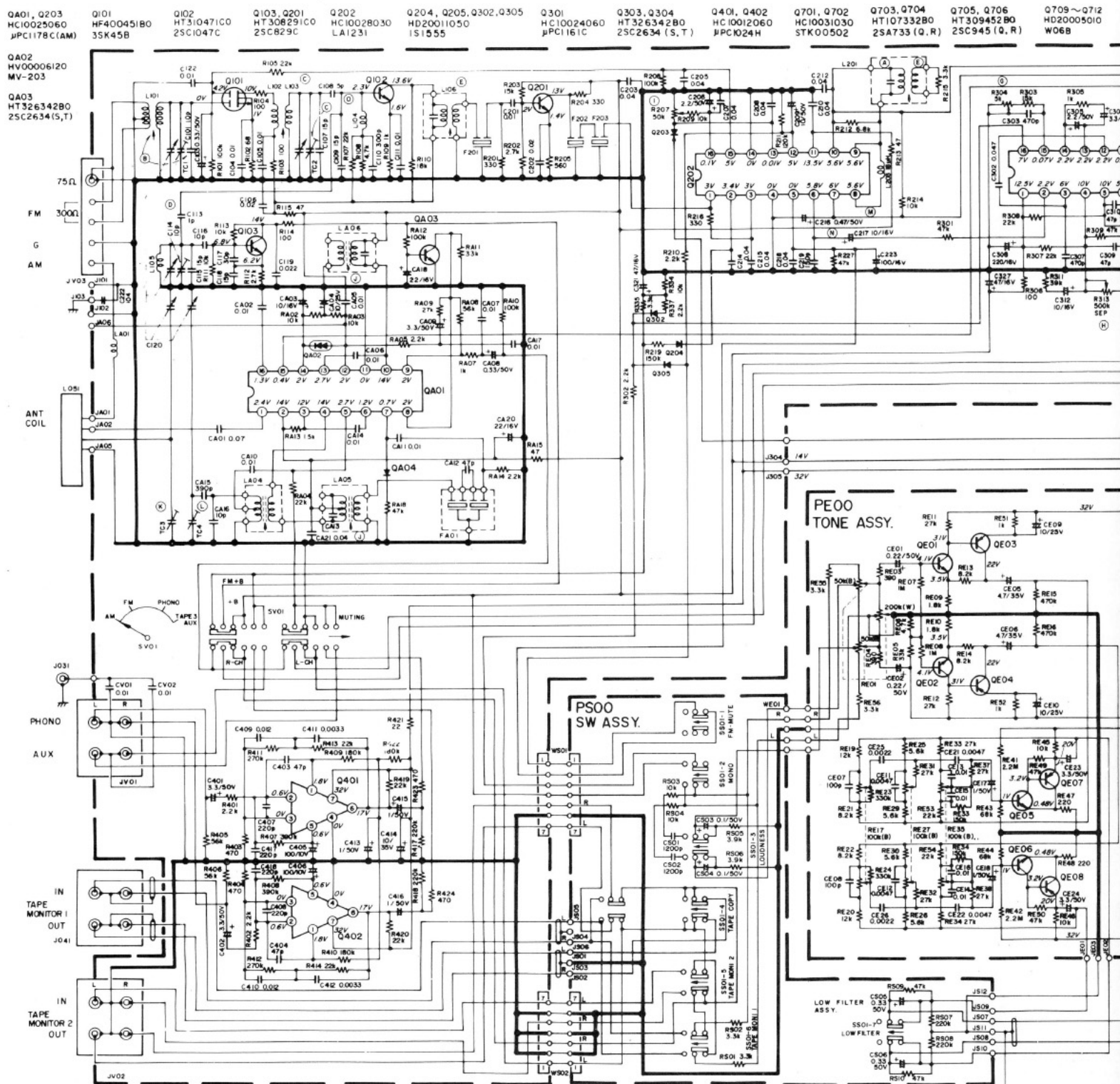
Packed for Shipment	12 kg (26.4 lbs)
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Specifications and appearance are subject to change for modification without notice.

12. SCHEMATIC DIAGRAM



12. SCHEMATIC DIAGRAM



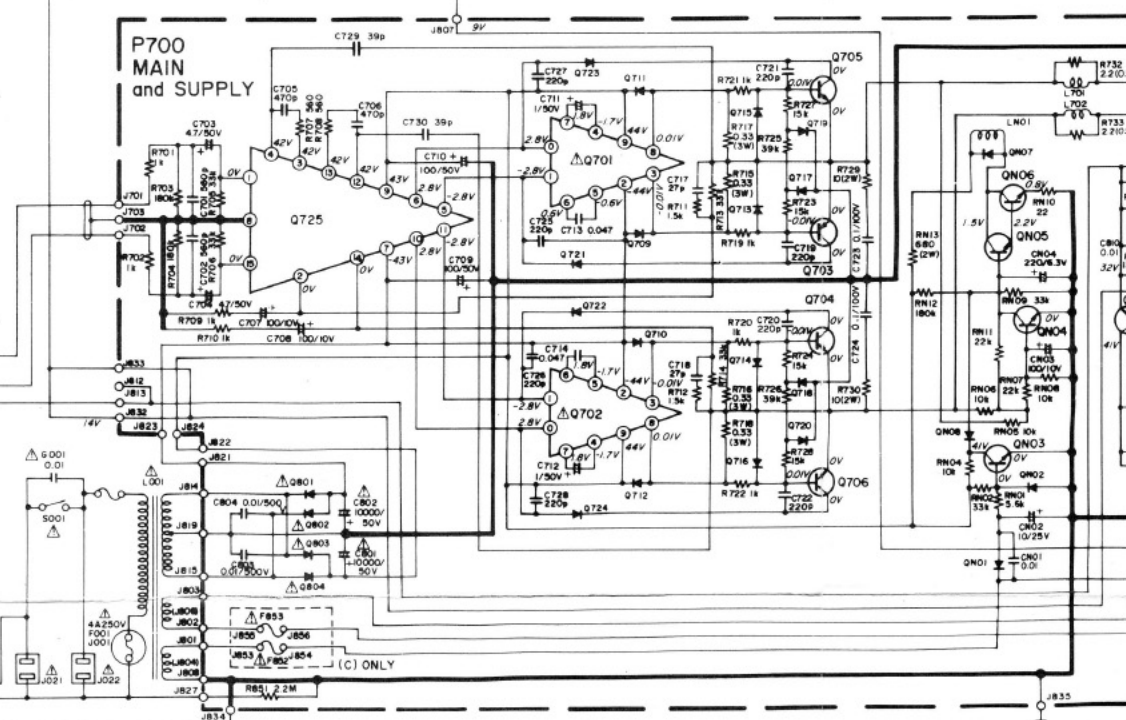
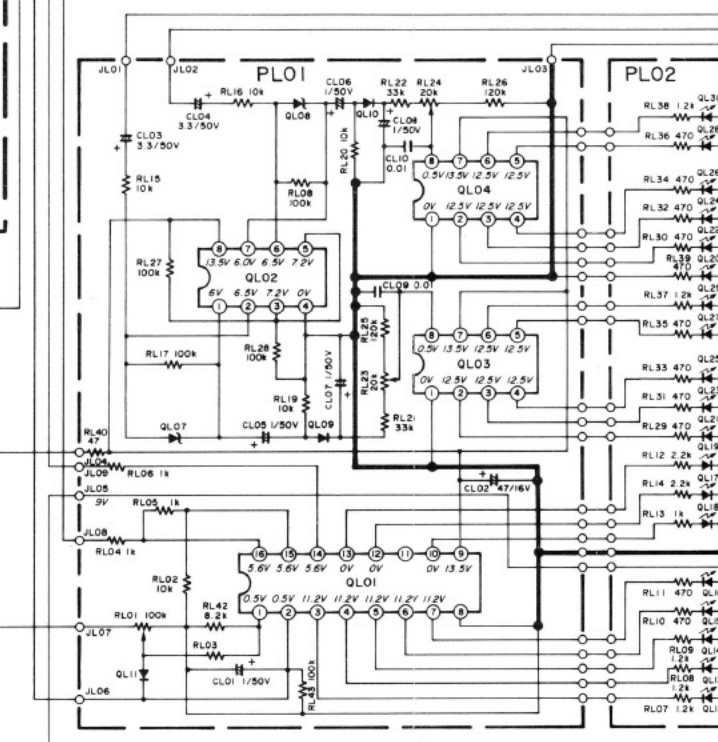
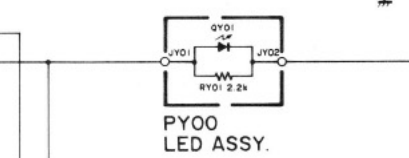
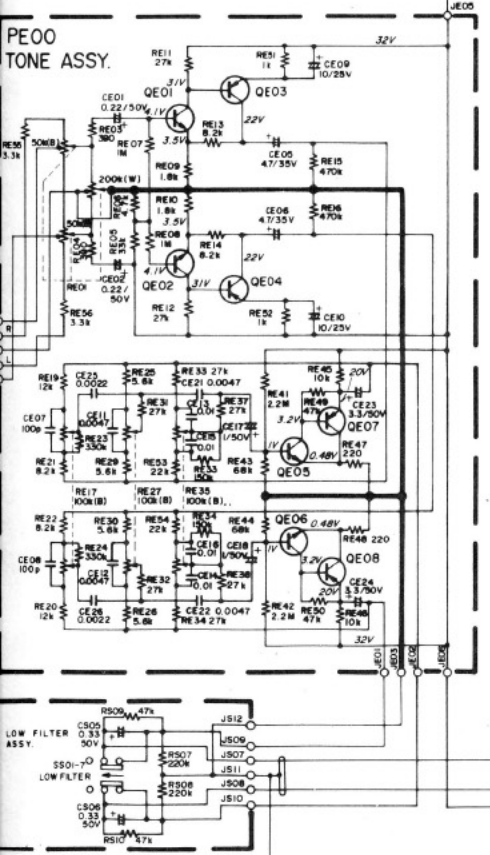
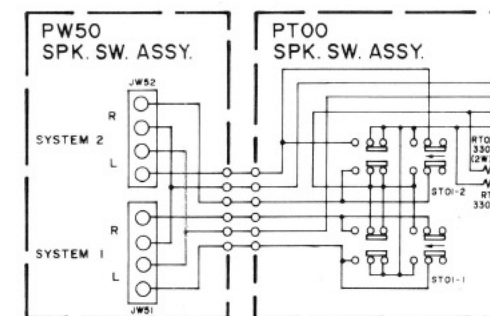
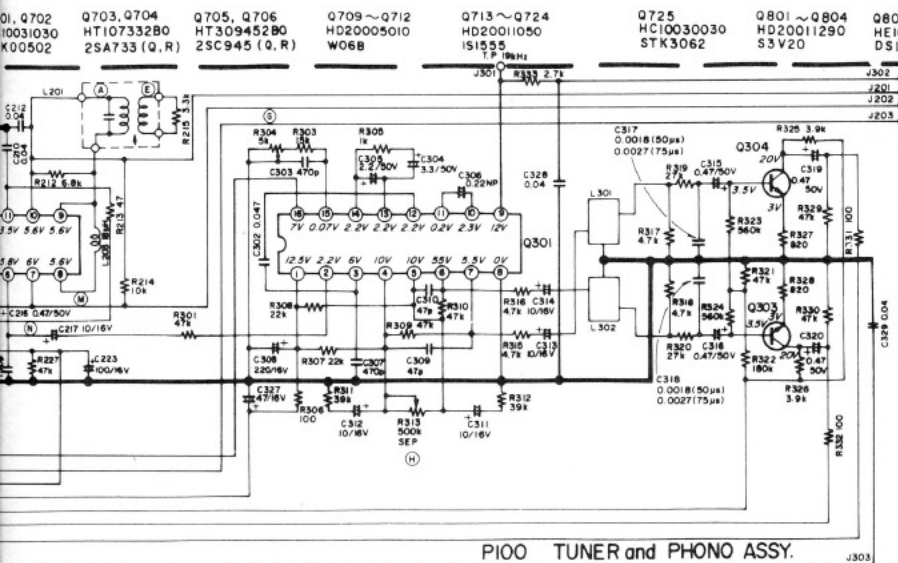
NOTE

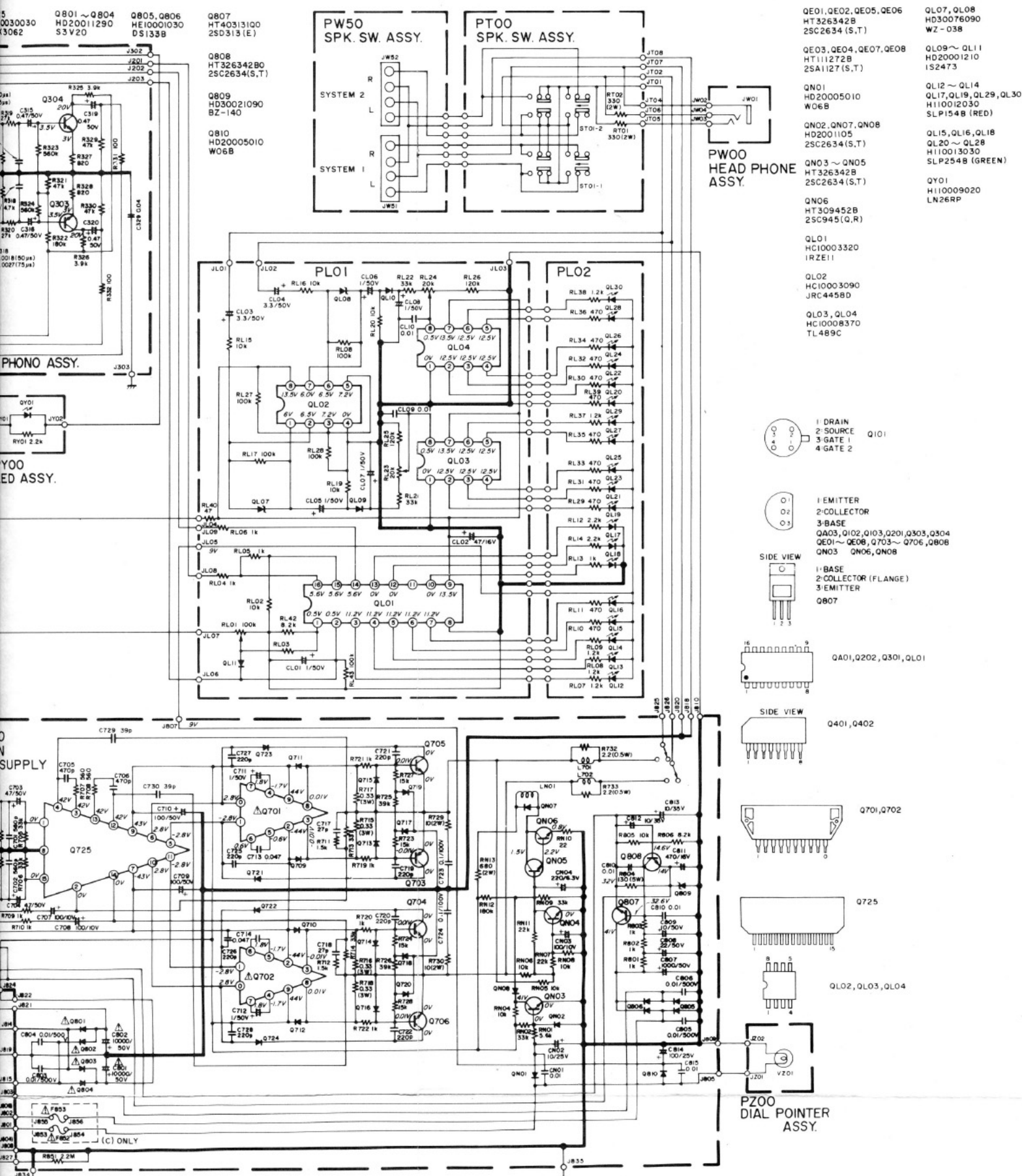
THE PARTS MARKED WITH Δ ARE IMPORTANT PARTS ON THE SAFETY PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBER WITH-OUT FAIL

RESISTOR UNIT : Ω $\frac{1}{4}W$
CAPACITOR UNIT : μF

	F001	F852	F853	R851
U.S.A. (U)	4A 250V			2.2M 0.5W
CANADA (C)	4A 250V	1A 250V	1A 250V	2.2M 0.5W

Components and wiring are subject to change for modification without notice.







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