



224

SERVICE
MANUAL **2130**



marantz

model 2130

Am/Fm Stereophonic Tuner



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.

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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:

CANADA

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

AUSTRALIA

Superscope (Australasia) Pty., Ltd.
32 Cross Street (P.O. Box 604)
Brookvale 2100 N.S.W.
Australia

JAPAN

Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara Shi
Kanagawa, Japan

EUROPE

Superscope Europe, S.A.
Avenue Leopold III, 2
7120 Perennes-Lez-Binche
Belgium

Marantz France
Rue Louis Armand 9
92600 Asnieres
Hauts-de-Seine
France

Marantz Audio U.K. Ltd.
London Road, 203
Staines
Middlesex
England

Superscope GmbH
Max-Planck-Strasse 22
D-6072 Dreieich 1
West Germany

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.

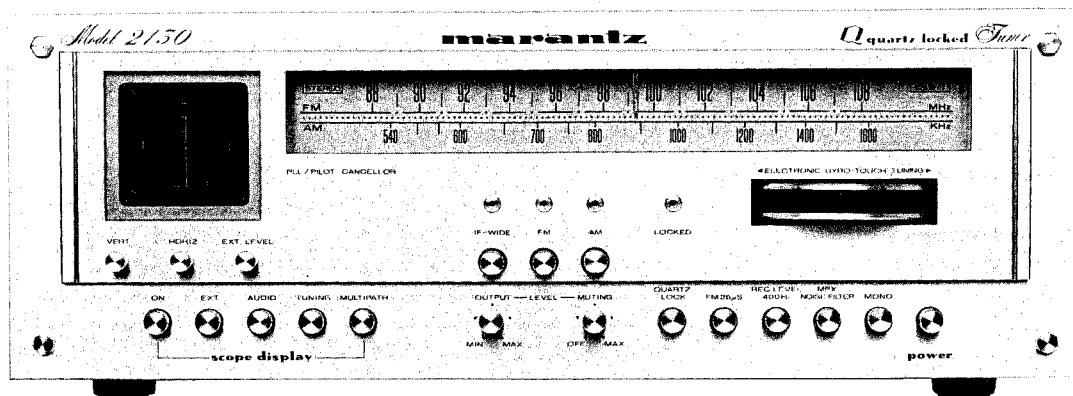
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MODEL 2130 AM/FM STEREOPHONIC TUNER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 2130 AM/FM Stereophonic Tuner.

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 operations in the tuner.

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 2130 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. Front End mounted on P.W. Board P100
2. AM Tuner & FM IF mounted on P.W. Board P200
3. MPX Stereo Decoder mounted on P.W. Board P300
4. Power Supply mounted on P.W. Board P800
5. Scope Amp mounted on P.W. Board P900
6. Quartz Lock mounted on P.W. Board PC50
7. Scope Display
Switches mounted on P.W. Board PR01
8. AM/FM/IF Wide
Switches mounted on P.W. Board PS01
9. Buffer Amp & Mode
Switches mounted on P.W. Board PT01
10. Function Indicator mounted on P.W. Board PY01
11. Dial Lamp mounted on P.W. Board PZ01
12. Dolby Socket mounted on P.W. Board PK01

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model 2130 Tuner.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Generator 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
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 tuner
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to tuner
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B-10A	Adjusts level of primary power to tuner

3. AM ALIGNMENT PROCEDURES

3.1 AM IF ALIGNMENT

1. Connect a sweep generator to the R155 (T.P.) and an alignment scope to the J207.
2. Rotate each core of IF transformers L153 and L154 for the maximum height and flat top symmetrical response.

3.2 AM FREQUENCY RANGE AND TRACKING ALIGNMENT

1. Set an AM signal generator to 515 kHz. Turn the tuning capacitor fully closed (place the tuning pointer at the low end) and adjust the oscillator coil L152 for maximum audio output.
2. Set the signal generator to 1650 kHz. Place the tuning pointer in the high frequency end and adjust the oscillator trimmer on the oscillator tuning capacitor for maximum audio output.
3. Repeat steps 1 and 2 until no further adjustment is necessary.
4. Set the generator to 600 kHz and tune the tuner to the same frequency and adjust a slug core of AM ferrite-rod antenna L001 and RF coil L151 for maximum output.
5. Set the generator to 1400 kHz and tune the tuner to the same frequency and adjust both trimming capacitors of antenna and RF tuned circuit for maximum output.
6. Repeat steps 4 and 5 until no further adjustment is necessary.

NOTE: During tracking alignment reduce the signal generator output as necessary to avoid AGC action.

3.3 AM SIGNAL STRENGTH DISPLAY ALIGNMENT

Set an AM signal generator to 1000 kHz at 100 dB/m, and adjust R152 so that the spot may meet upper mark.

4. FM ALIGNMENT PROCEDURES

4.1 FM FREQUENCY RANGE AND TRACKING ALIGNMENT

1. Connect an FM signal generator to the FM ANTENNA terminals and an oscilloscope and an audio distortion analyzer to the OUTPUT jacks on the rear panel.
2. Set the signal generator to 87.4 MHz and provide about 3 to 5 μ V. Place the tuning pointer at the low frequency end by rotating the tuning knob and adjust the core of oscillator coil L106 to obtain maximum audio output.
3. Set the signal generator to 109 MHz and provide about 3 to 5 μ V output. Rotate the tuning knob and place the tuning pointer at the high frequency end and adjust the trimming capacitor C218 for maximum output.
4. Repeat steps 2 and 3 until no further adjustment is necessary.
5. Set the signal generator to 90 MHz and tune the tuner to the same frequency. Decrease the signal generator output until the audio output level decreases with the decreasing generator output. Adjust the antenna coil L101, RF coils L102, L103 and L104 and IF transformer L105 for minimum audio distortion.
6. Set the signal generator to 106 MHz and tune the tuner to the same frequency. Adjust the trimming capacitors of antenna and RF tuning circuits for minimum distortion.

7. Repeat steps 5 and 6 until no further adjustment is necessary.
8. Connect a VTVM (at DC 1 V range) across R206 (T.P.) and ground terminal. Adjust the discriminator transformer L206 so that the VTVM indicates null reading (zero reading) at no signal. Set the FM signal generator to 98 MHz and increase its output level 1 μ V and tune the tuner to the same frequency so that the VTVM gives null reading. Turn on the MONO and IF WIDE pushswitches and adjust the L205 for minimum distortion. (Scope display can, of course, be used as tuning indicator instead of the VTVM, if the scope unit has been correctly adjusted as instructed in the "Scope Display Adjustment".)
9. Set the signal generator to 98 MHz and provide about 3 to 5 μ V output, and tune the tuner to the same frequency.
10. Set the IF WIDE pushswitch to the NARROW (OUT) position. Depress the SCOPE DISPLAY TUNING switch and adjust the L202 and L203 until the tuning bar becomes maximum.
11. Set the signal generator to 98 MHz at 100 μ V, and adjust RB11 so that the signal strength indicator spot just reaches upper mark.

4.2 PILOT CANCEL ALIGNMENT

1. Set the FM signal generator to provide 1 μ V at 98 MHz. Tune the tuner to the same frequency so that the center tuning indicator spot indicates its center.
2. Turn the signal generator modulation off (with the pilot carrier on), and adjust the R302 so that the S/N become maximum.

4.3 STEREO SEPARATION ALIGNMENT

1. Set the FM signal generator to provide 1 μ V at 98 MHz. Tune the tuner to the same frequency so that the center tuning indicator spot indicates its center.
2. Turn the signal generator modulation off (with the pilot signal turned on), connect a frequency counter to the R314 (T.P.), and adjust the R313 so that the frequency counter may precisely read 76 kHz.
3. Modulate the signal generator with stereo composite signal consisting only of subchannel signal (of course a pilot signal must be included).
4. Set the modulation frequency of the FM signal generator to 1 kHz. Turn on IF WIDE pushswitch and adjust the semifixed resistors R366 and R369 for maximum stereo separation. Similarly, turn off IF WIDE pushswitch and adjust the semifixed resistors R367 and R368 for maximum stereo separation.

4.4 MUTING CIRCUIT ALIGNMENT

1. Set the FM signal generator to provide 7 μ V at 98 MHz and tune the tuner to the same frequency correctly.
2. Depress the FM MUTING pushswitch. Set the R003 to MIN position (CCW) and the RB47 to MAX (CCW). Adjust the RB10 until the muting circuit is activated to produce output for exactly 7 μ V input.
3. In turn increase the FM signal generator output up to 50 μ V.

4. Set the R003 to MAX position (CW). Adjust the RB47 until the muting circuit is activated to produce output for exactly 50 μ V input.
5. Turn the R003 from MIN to MAX to assure the muting threshold level can change in the range of 7 to 50 μ V.
6. Increase the FM signal generator output up to 1 μ V and shift its frequency to +80 kHz and -80 kHz. Adjust the R349 so that the muting circuit becomes off. Note both up- and down-shifted frequencies at which undesirable audio side responses are muted out. Turn on QUARTZ Lock pushswitch and observe the QUARTZ LED which synchronize with the muting circuit.

4.5 FM 25 μ S OUTPUT LEVEL ADJUSTMENT

1. Set the modulation of FM signal generator to 400 Hz, 50% (± 37.5 kHz Dev.).
2. Set the signal generator to provide 1 μ V at 98 MHz. Tune the tuner to the same frequency so that the center tuning indicator spot indicates its center.
3. Depress the FM 25 μ S switch. Set the trimming resistors RT09 and RT10 so that the output of the OUTPUT jacks R and L become 580 mV at VTVM.

4.6 400 Hz TONE ALIGNMENT

1. Turn the OUTPUT LEVEL control to the MAX position (FCW), and depress the 400 Hz tone switch.
2. Adjust the semifixed resistor RT37 so that the output level become 580 mV at VTVM.

5. SCOPE DISPLAY ADJUSTMENT

1. Set the EXT LEVEL control to its fully counterclockwise position.
2. Depress the SCOPE DISPLAY ON and EXT pushswitches in.
3. Adjust the HORIZ and VERT controls to center the dot in the small circle in the center of the scope display.
4. Adjust the BRIGHT control (R007) on the rear panel until the brightness becomes dark a little.
5. Adjust the FOCUS control (R008) so that the spot may become smaller and circular.
6. Turn the EXT LEVEL control to its fully clockwise position.
7. Connect a 150 mV, 1 kHz signal to the SCOPE INPUTS R jack and adjust R928 (H. GAIN) until the horizontal deflection is around 3 cm.
8. In turn, connect the same signal to the L jack and similarly, adjust R927 (V. GAIN) until the vertical deflection is around 8 cm.
9. Set the HORIZ and VERT controls to the 12-o'clock position and adjust R925 (H. CENTER) until the spot comes in the horizontal deflection center.
10. Similarly, adjust R926 (V. CENTER) until the spot comes in the vertical deflection center.

5.1 AM TUNING DISPLAY ADJUSTMENT

1. Depress the SCOPE DISPLAY ON, TUNING and AM pushswitches.
2. Adjust R931 until the spot comes in the center below the base line without tuning into a station.

5.2 FM TUNING DISPLAY ADJUSTMENT

1. Depress the SCOPE DISPLAY ON, TUNING and FM pushswitches.
2. Adjust the L213 so that the tuning bar becomes center at no signal.
3. Connect FM signal input of 100 μ V (98 MHz, 1 kHz, 100% mod.) to the FM ANTENNA terminals and adjust the RB11 so that the spot does not frame out.

5.3 FM MULTIPATH DISPLAY ADJUSTMENT

1. Adjust the L212 to obtain full deflection of the trace within both side marks, applying FM signal (1 μ V, 400 Hz, 100% mod.) to the FM ANTENNA terminals.

6. VOLTAGE CONVERSION FOR EUROPEAN MODEL

The European version of the Model 2130 is equipped with a universal power transformer that may be adjusted to operate at 110 V, 120 V, 220 V, or 240 V AC at 50 to 60 Hz. To convert the unit to a different power source voltage, reposition conversion plug as shown in Figure 1.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

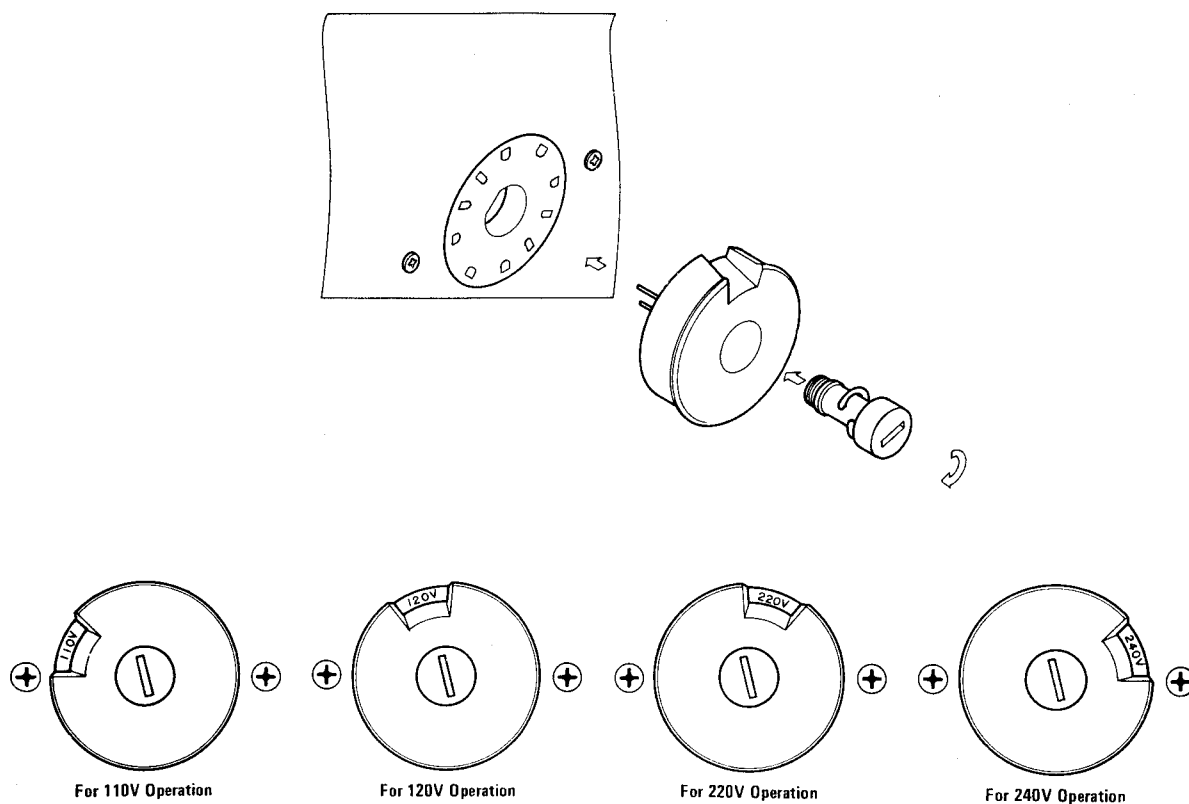


Figure 1. Voltage Conversion Chart

FTZ REGULATION

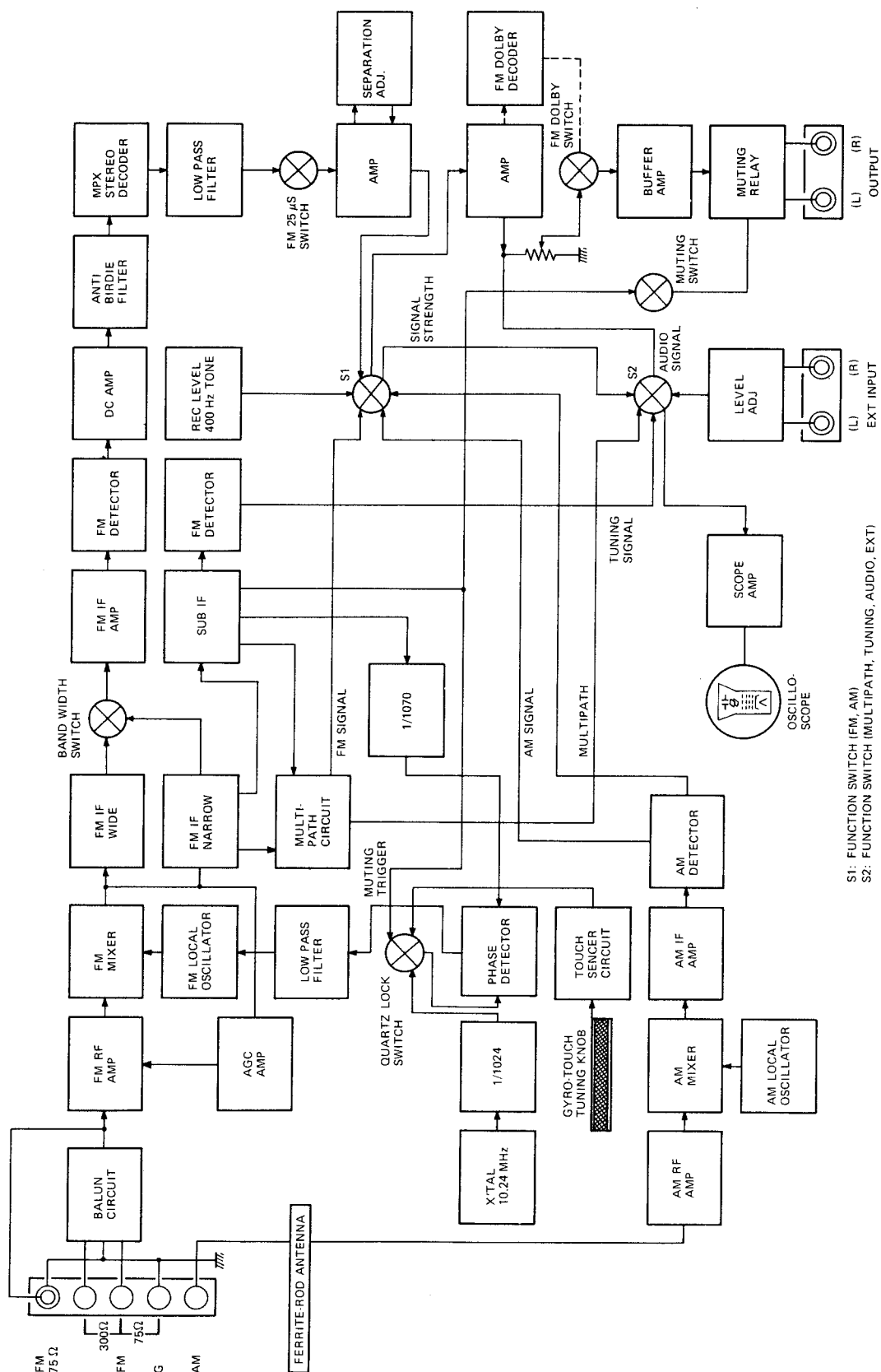
Instruction for the use in the range other than specified in FTZ codes.

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

Sollte das Gerät auch für Frequenzen ausserhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangsbereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorschleife (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.

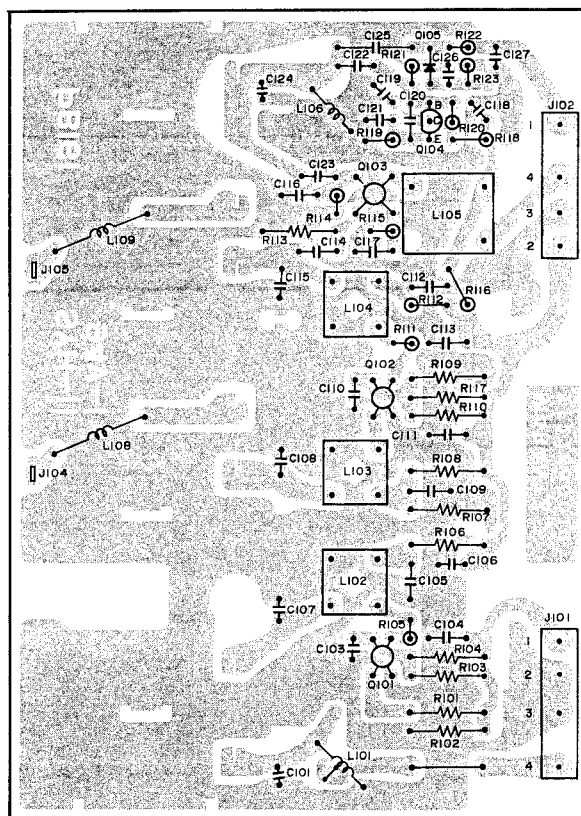
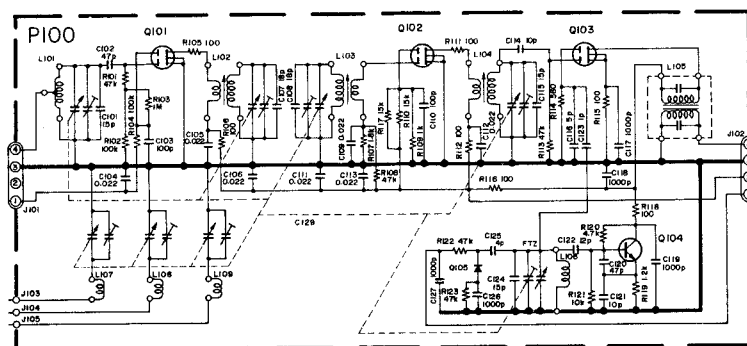
7. DIAGRAMS

7.1 BLOCK DIAGRAM

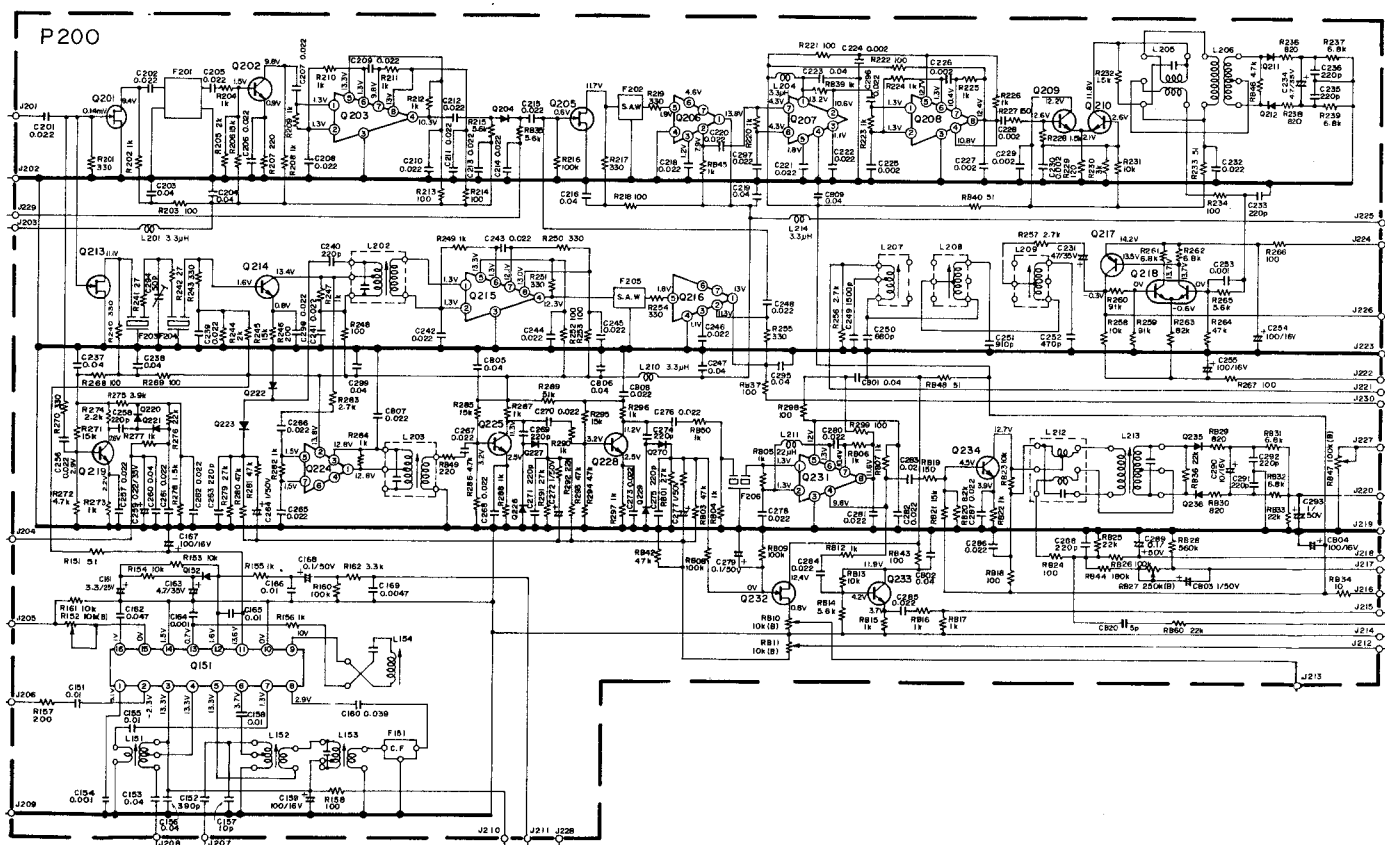


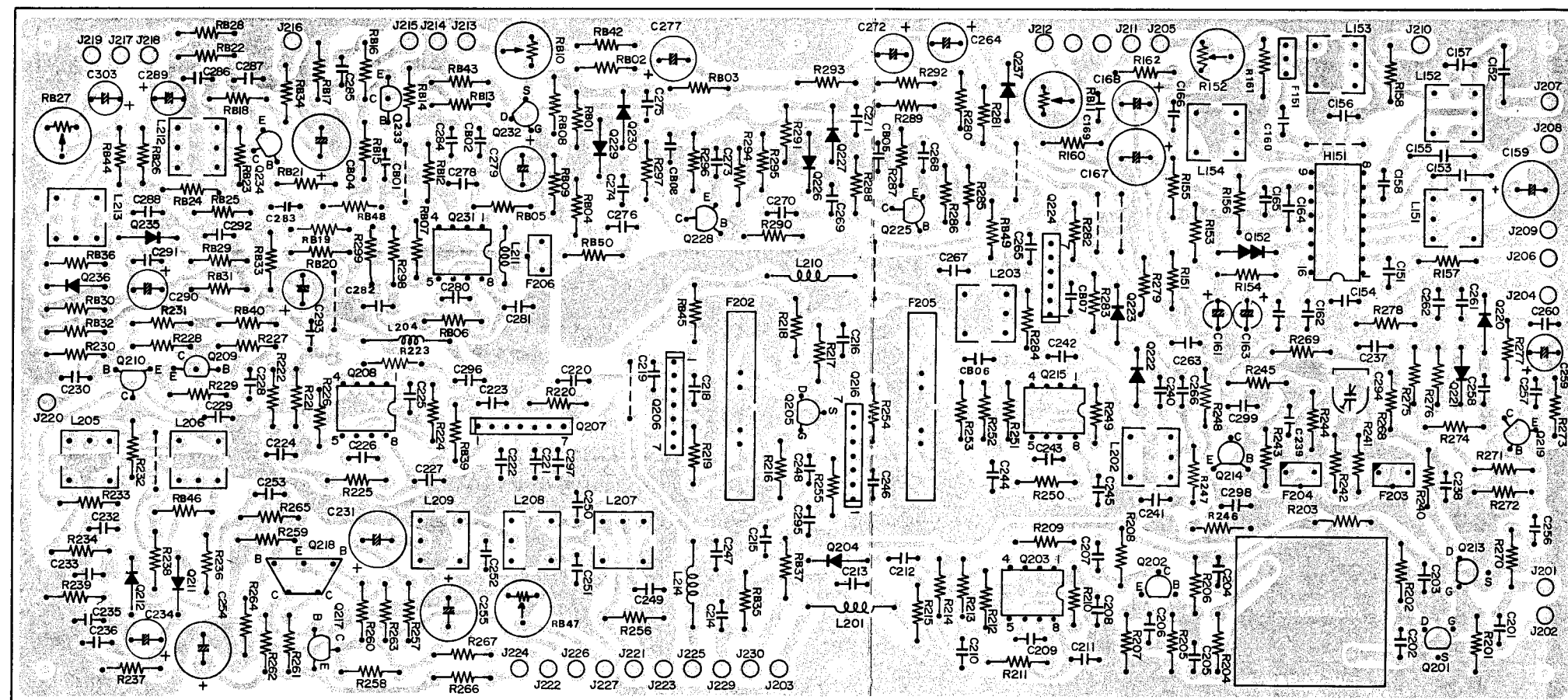
S1: FUNCTION SWITCH (FM, AM)
S2: FUNCTION SWITCH (MULTIPATH, TUNING, AUDIO, EXT)

7.2 FRONT END BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P100

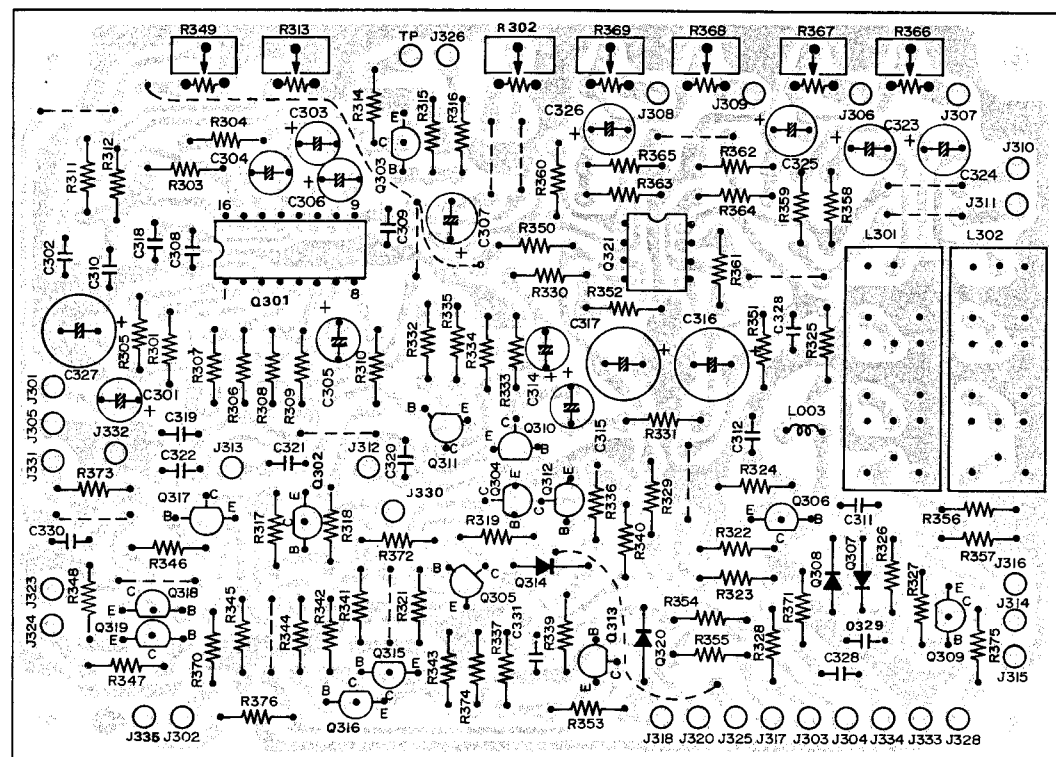
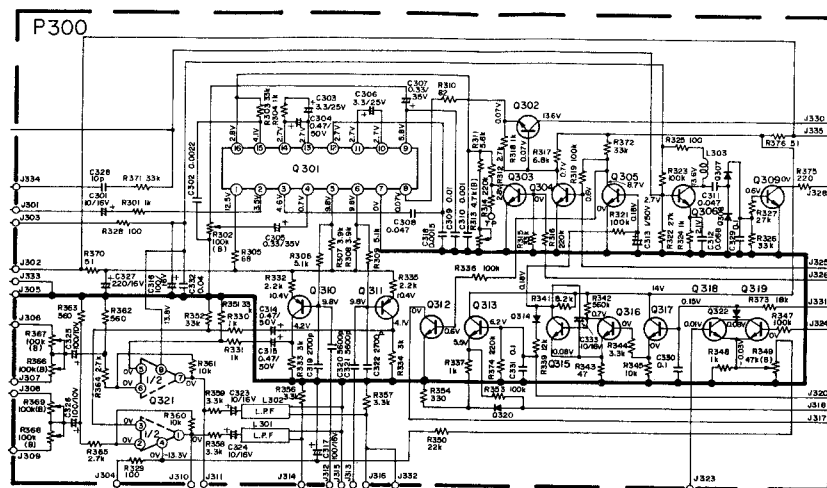


7.3 AM TUNER & FM IF BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P200

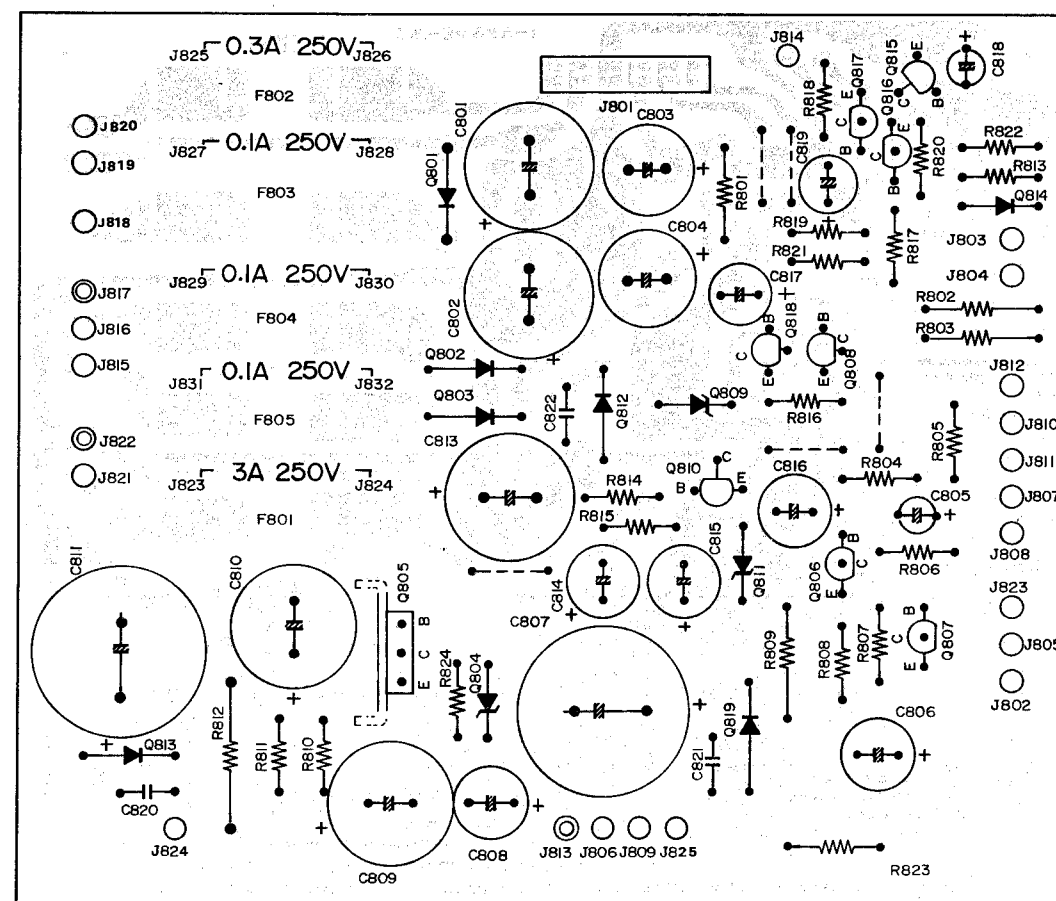
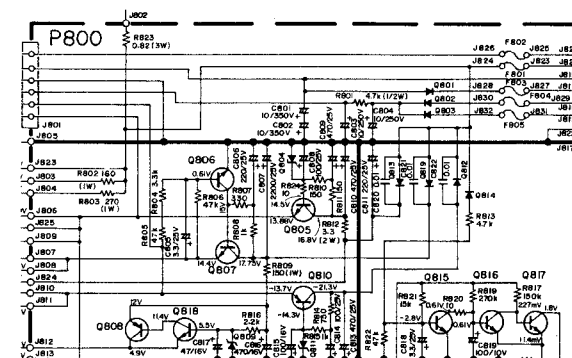




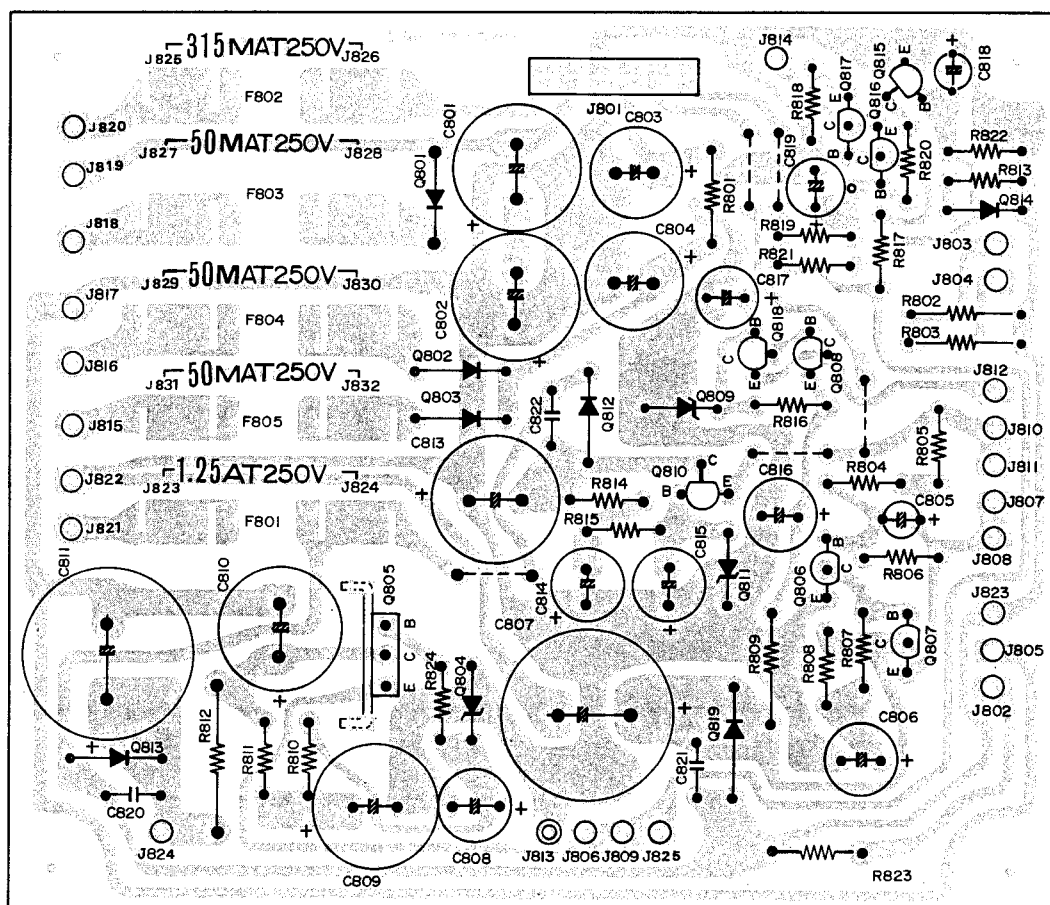
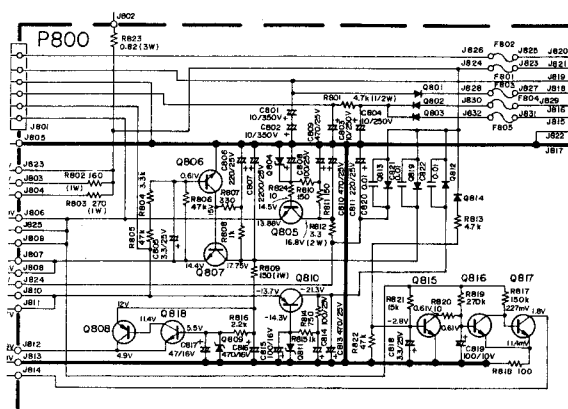
7.4 MPX STEREO DECODER BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P300



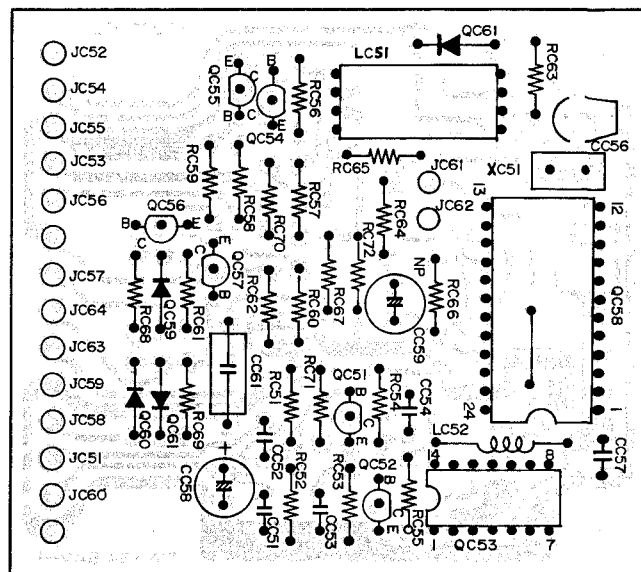
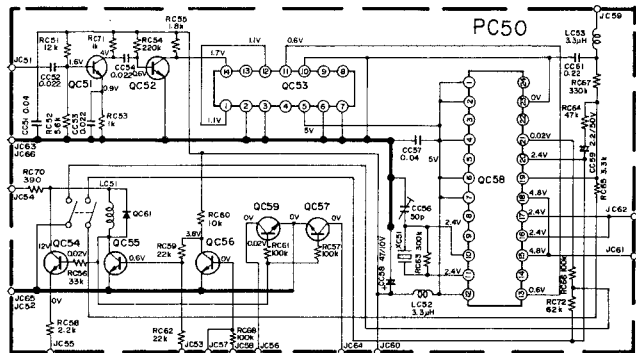
7.5 POWER SUPPLY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P800 - U.S.A. & CANADA



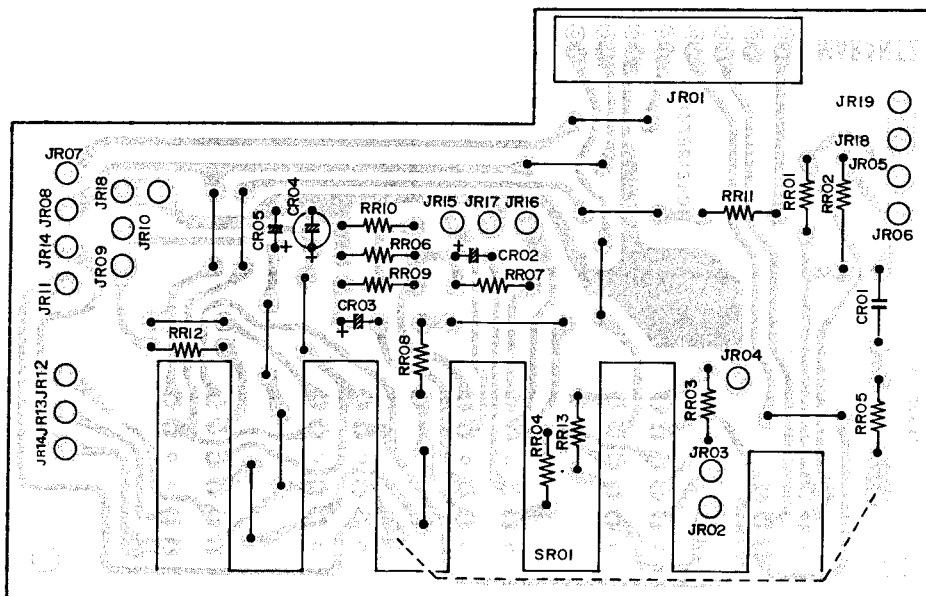
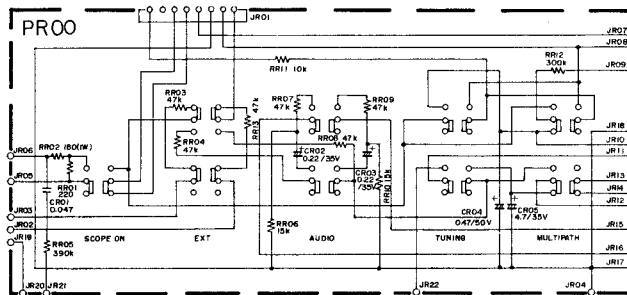
7.6 POWER SUPPLY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P800 - EUROPE



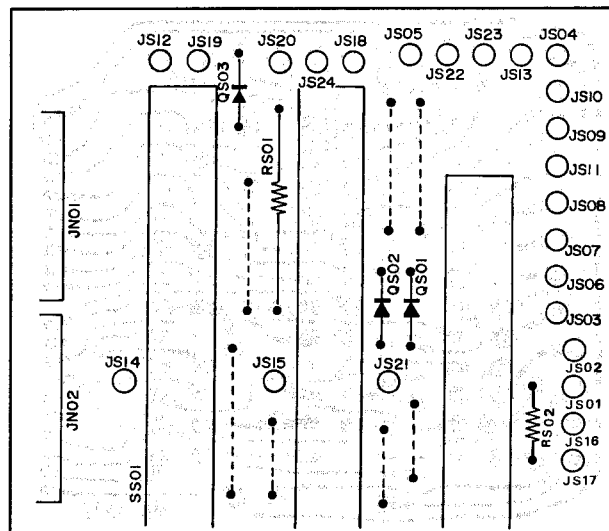
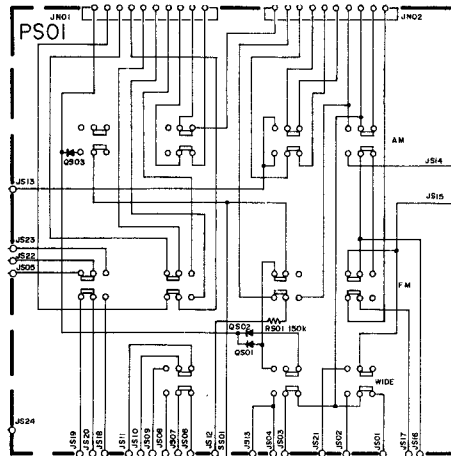
7.8 QUARTZ LOCK BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PC50



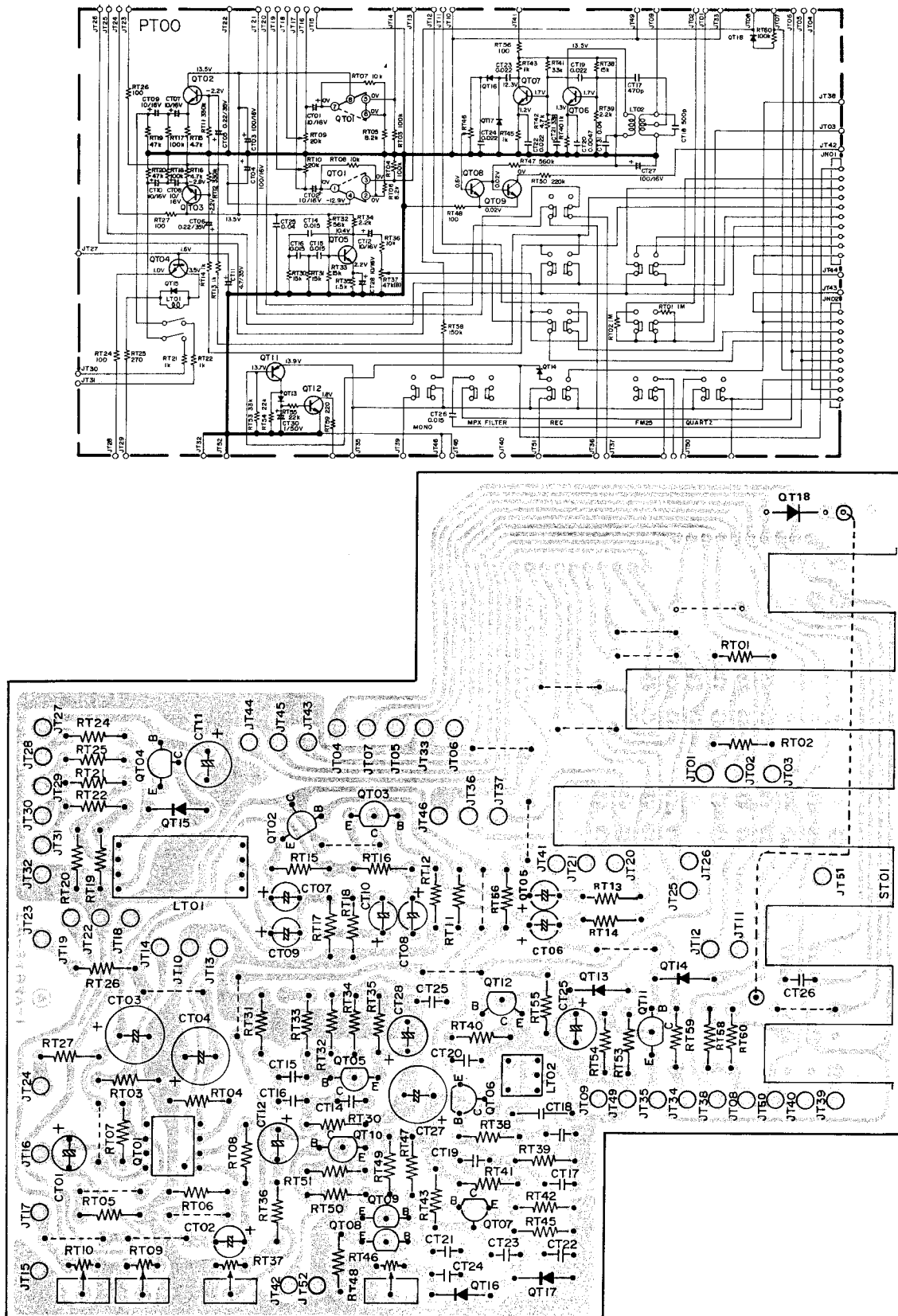
7.9 SCOPE DISPLAY SWITCHES BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PR00



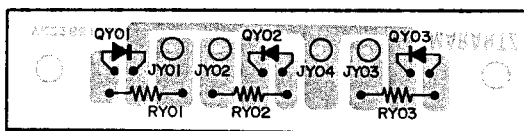
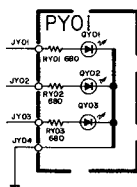
7.10 AM/FM/IF WIDE SWITCHES BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PS01



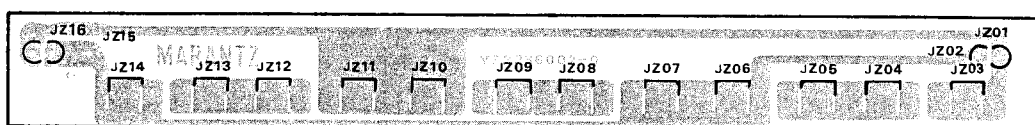
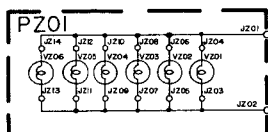
7.11 BUFFER AMP & MODE SWITCHES BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PT00



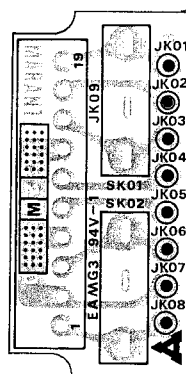
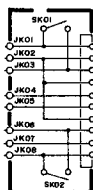
7.12 FUNCTION INDICATOR BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PY01



7.13 DIAL LAMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PZ01



7.14 DOLBY SOCKET BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PK01 - U.S.A. & CANADA



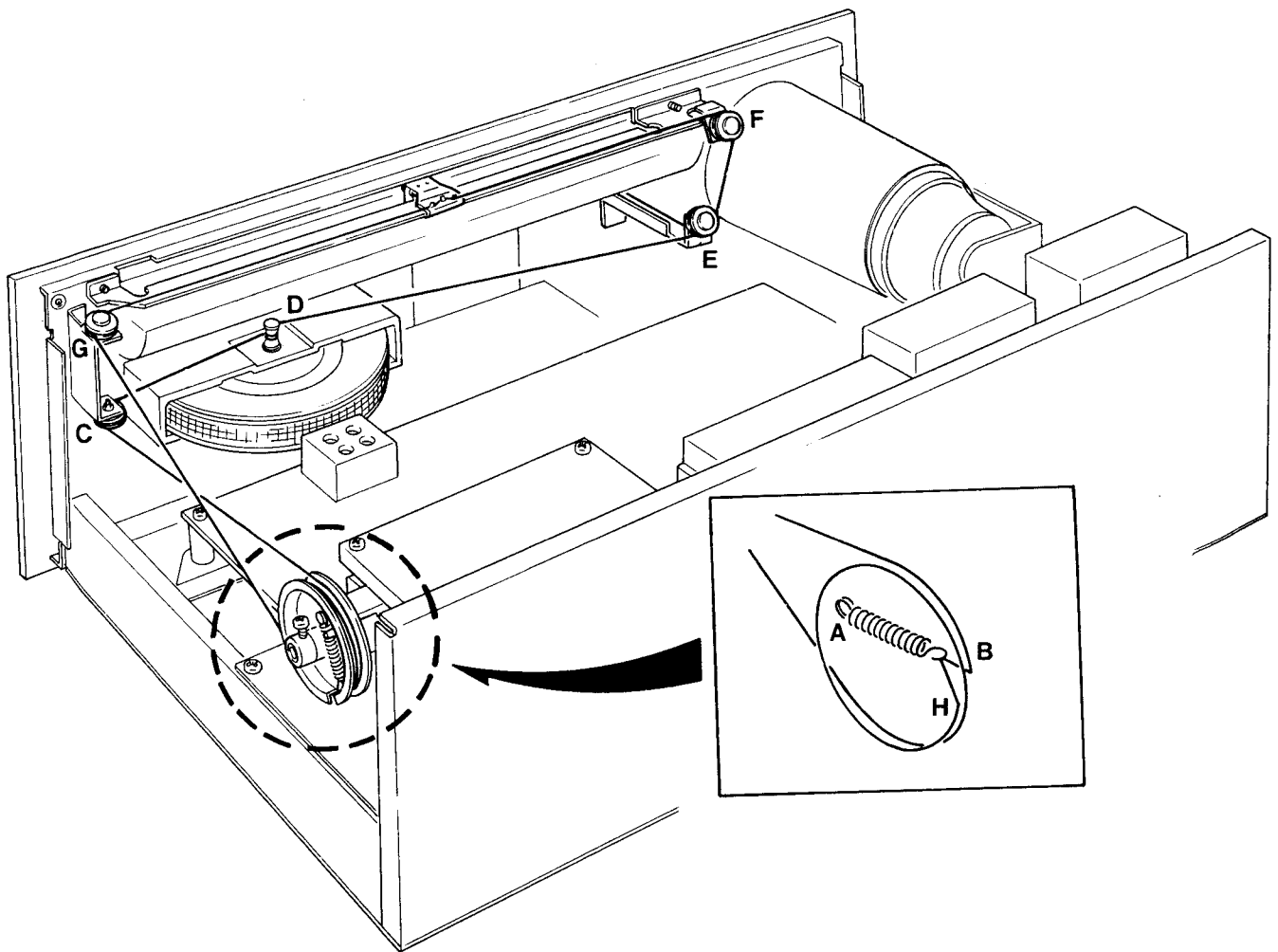
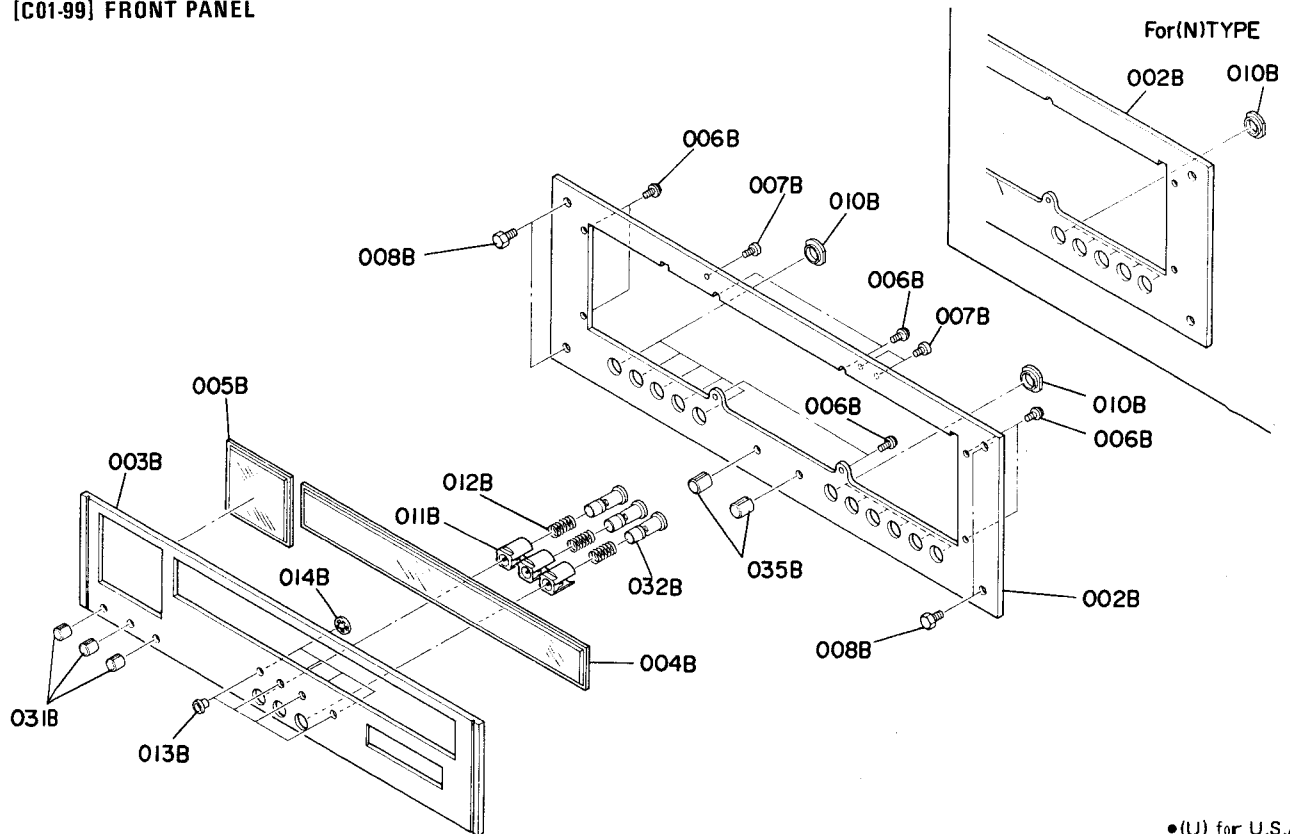


Figure 2. Dial Stringing

8. EXPLODED VIEWS AND PARTS LIST

8.1 [C01-99] FRONT PANEL

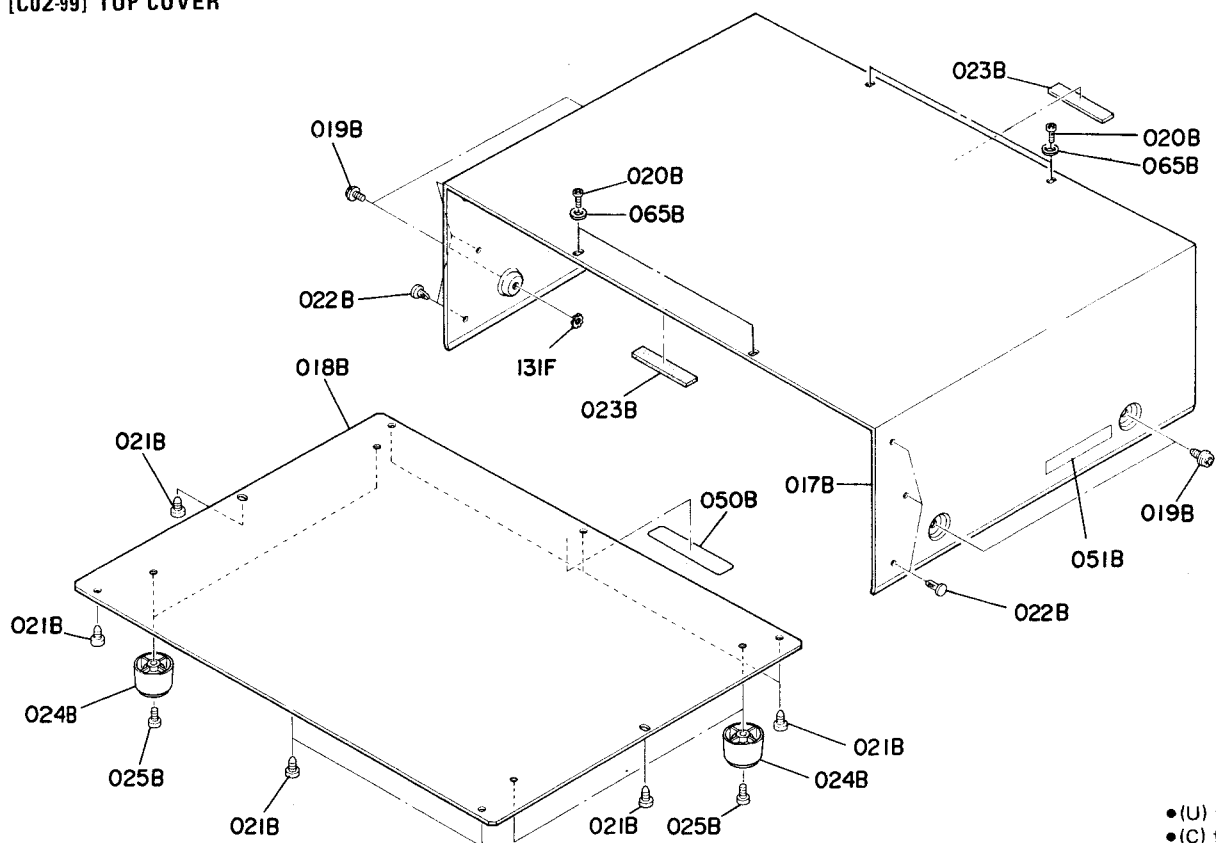


•(U) for U.S.A.
 •(C) for Canada
 •(N) for Europe

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
A	1	1		2286063400	Front Panel Assembly
A1			1	2286063410	Front Panel Assembly
002B	1	1		2286063012	Escutcheon, Main
003B	1	1	1	2286063030	Escutcheon, Sub
004B	1	1	1	2286158020	Window, Dial
005B	1	1	1	2286158010	Window, Scope
006B	8	8	8	51480306A9	F. Washer Screw F3x 6
007B	3	3	3	51570305B0	P. TAPT. Screw P3 x 5
010B	11	11	10	2978259012	Bushing
011B	3	3	3	2279259013	Bushing
012B	3	3	3	2979115012	Spring
013B	4	4	4	2979259022	Bushing
014B	4	4	4	64020600Q0	RG Ring, CS Type

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
008B	4	4	4	52017069J2	H. Head Bolt
031B	3	3	3	2286154012	Knob, Scope VR.
032B	3	3	3	2979154022	Knob, AM/FM
035B	2	2	2	2978154013	Knob, Quartz VR.

8.2 [C02-99] TOP COVER

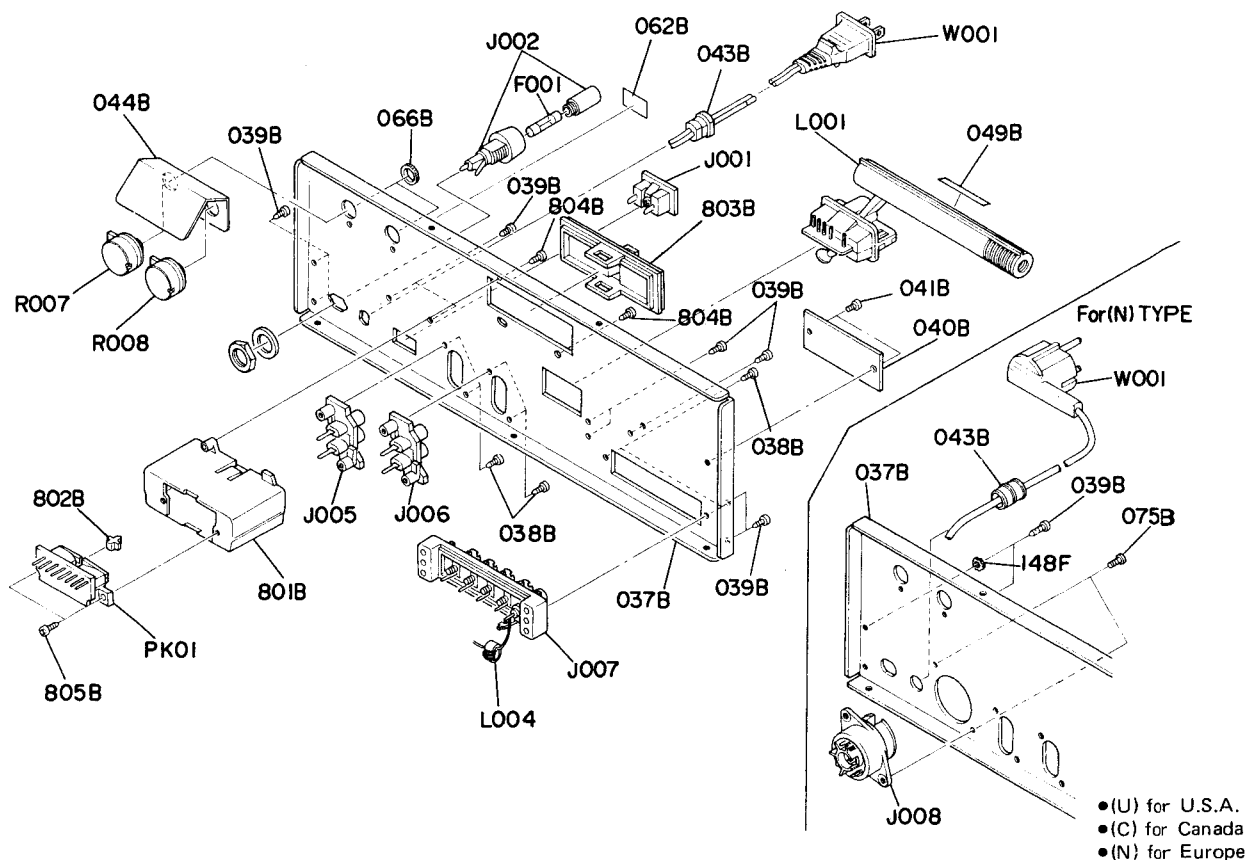


•(U) for U.S.A.
•(C) for Canada
•(N) for Europe

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
017B	1	1	1	2216257112	Lid, Top Cover
018B	1	1	1	2216257022	Lid, Bottom Cover
019B	4	4	4	51480406S9	F. Washer Screw F4 x 6
020B	4	4	4	51280306U0	B.H. Tapped Screw B3 x 6
021B	8	8	8	51280408U0	B.H. Tapped Screw B4 x 8
022B	6	6	6	2991259010	Bushing
023B	2	2	2	2965118010	Spacer
024B	4	4	4	2932057010	Leg
025B	4	4	4	51570410S0	P. TAPT. Screw P4 x 10

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
050B	1		1	2578861010	Label
050B		1		2911861112	Label
051B	1		1	2932861012	Label
051B		1		2911861143	Label
065B	4	4	4	59030805P1	Washer
131F			1	54050400R0	T.L. Washer OR

8.3 [C03-99] REAR PANEL

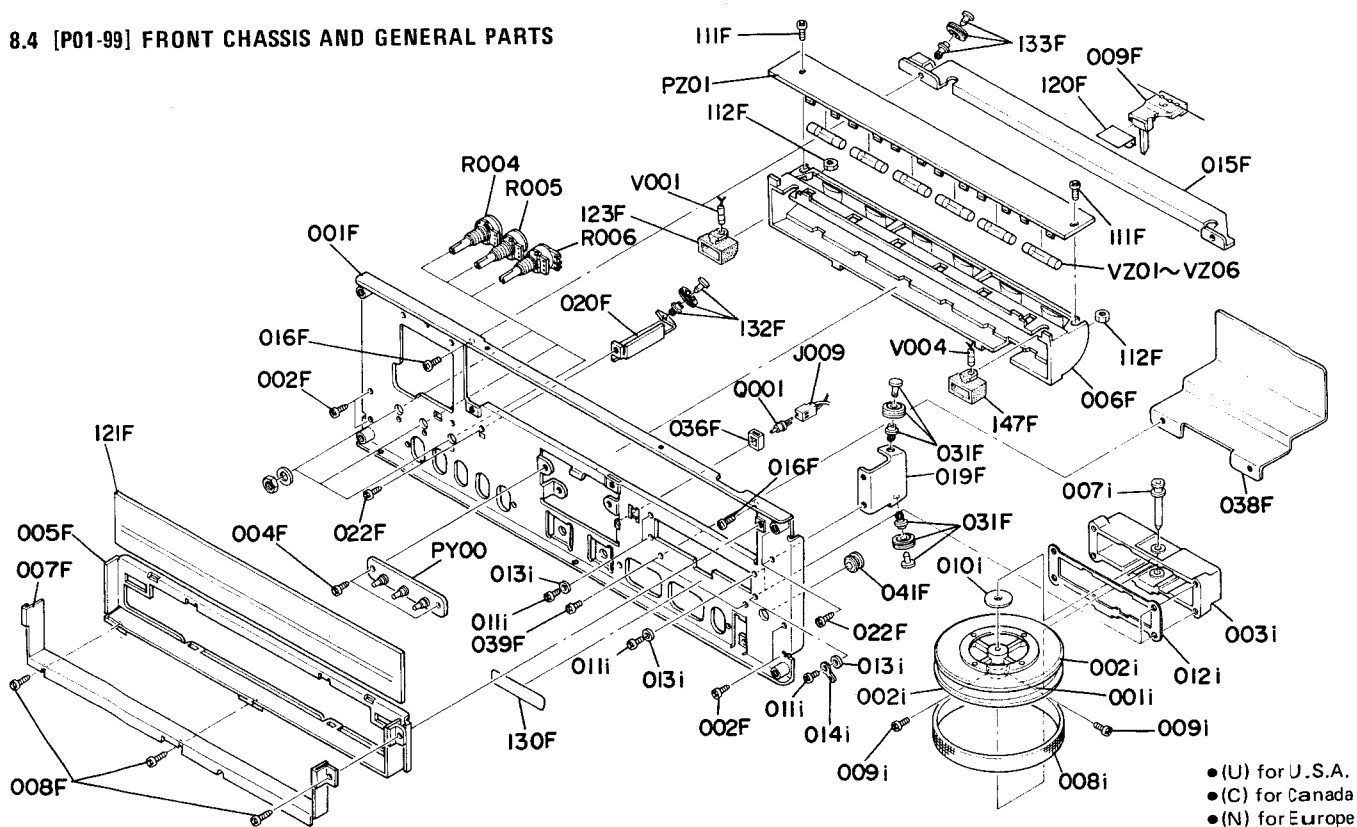


•(U) for U.S.A.
•(C) for Canada
•(N) for Europe

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
037B	1	1		2286160210	Bracket, Rear Panel
037B			1	2286160223	Bracket, Rear Panel
038B	6	6	6	51280308U0	B.H. Tapped Screw B3 x 8
039B	9	9	9	51280308U0	B.H. Tapped Screw B3 x 8
040B	1			2286265010	Indicator
040B		1		2286265020	Indicator
040B			1	2286265050	Indicator
041B	2	2	2	51760306B0	OS Tapped Screw 3 x 6
043B	1	1		1455259030	Bushing
043B			1	2286259110	Bushing
044B	1	1	1	2286120020	Insulator
049B	1	1	1	2506265062	Indicator
062B			1	2911861280	Label
066B	2	2	2	53228059E0	S.C. Nut
075B			2	51100308S9	B.H.M. Screw B3 x 8
801B	1	1		2218271052	Holder
802B	1	1		2218258010	Hook
803B	1	1		2218257030	Lid
804B	2	2		51280308U0	B.H. Tapped Screw B3 x 8
805B	2	2		51282608A0	B.H. Tapped Screw B2.6 x 8
148F			1	54050300R0	T.L. Washer OR

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
J001	1	1		YJ04000560	Jack, AC Outlet
J002	1	1		YJ08000230	Jack, Fuse Holder
J002			1	YJ08000220	Jack, Fuse Holder
J005	1	1	1	YT02020140	Terminal
J006	1	1	1	YT02020140	Terminal
J007	1	1		BY04050010	Terminal
J007			1	BY04050020	Terminal
J008			1	BY03110010	Plug, Voltage Selector
F001	1	1		FS10150050	Fuse 250V 1.5A
F001			1	FS10063800	Fuse 250V 630mA
L001	1	1	1	LF11200620	Ant. Coil, AM Bar Ant.
L004	1	1	1	LB30075260	Balun Coil
R007	1	1	1	RA05030180	Trimming Resistor 50K
R008	1	1	1	RK02040060	Variable Resistor 200K
W001	1	1		YC02000140	AC Power Cord
W001			1	YC01900030	AC Power Cord
PK01	1	1		YA22180310	P.W. Board, Dolby Socket
PK01			1	ZZ22180310	P.W. Board Assembly

8.4 [P01-99] FRONT CHASSIS AND GENERAL PARTS

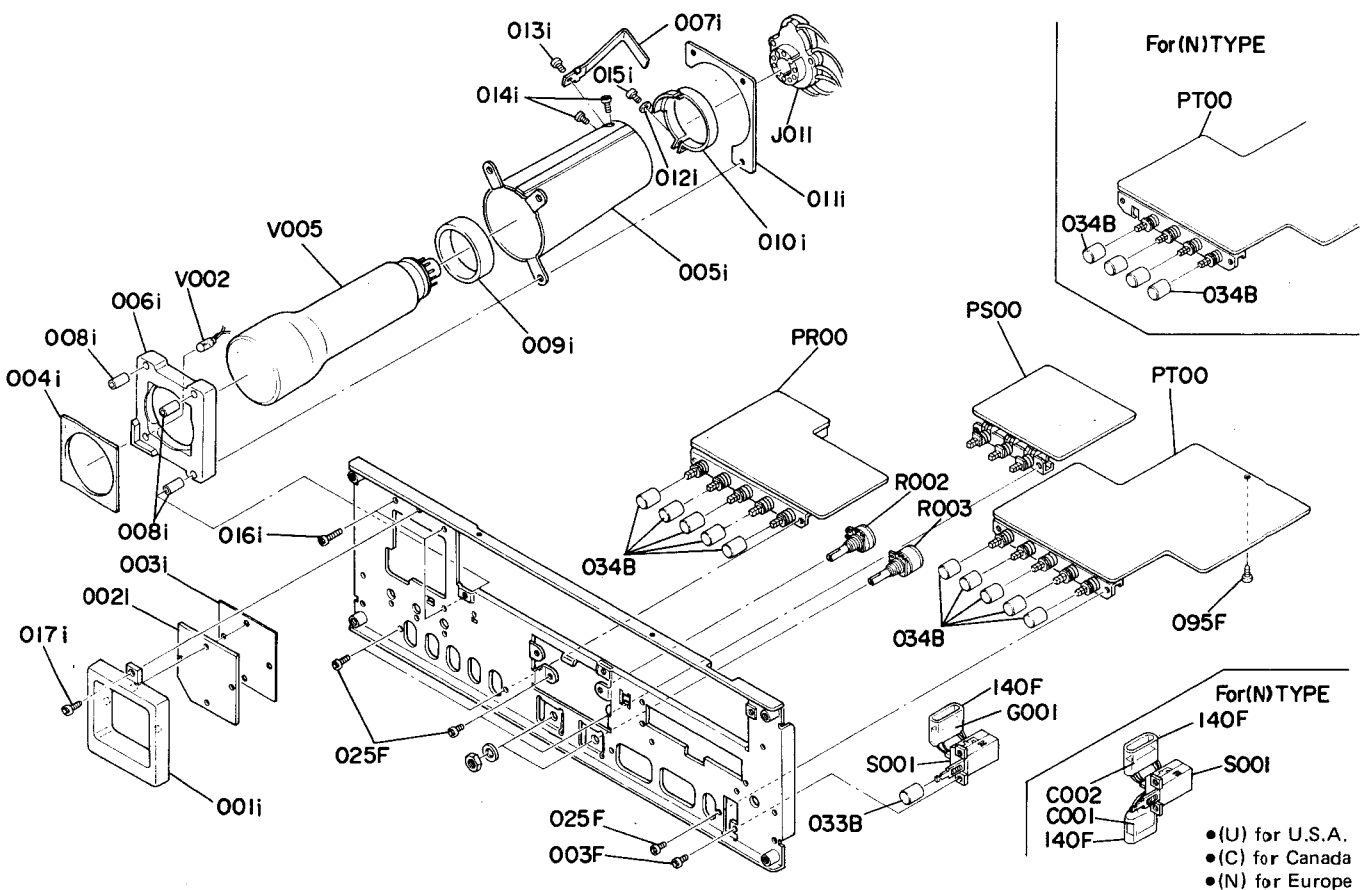


• (U) for U.S.A.
• (C) for Canada
• (N) for Europe

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
B	1	1	1	2286273400	Flywheel Assembly
001i	1	1	1	2219273012	Flywheel
002i	2	2	2	2219063030	Escutcheon
008i	1	1	1	2286353010	Ring
009i	2	2	2	51690306Q9	Socket Screw, HP 3 x 6
003i	1	1	1	2219104502	Retainer
007i	1	1	1	2219112012	Shaft
010i	1	1	1	59031405G9	Washer
011i	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
012i	1	1	1	2286120012	Insulator
013i	4	4	4	2286259010	Bushing
014i	1	1	1	62030049W0	Lug
001F	1	1	1	2286160012	Bracket
002F	4	4	4	51280306B0	B.H. Tapped Screw B3 x 6
004F	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
005F	1	1	1	2218271013	Holder
006F	1	1	1	2218274013	Reflector
007F	1	1	1	2219053022	Cover
008F	3	3	3	51280306B0	B.H. Tapped Screw B3 x 6
009F	1	1	1	2286103500	Pointer, K
015F	1	1	1	2286051010	Guide
016F	2	2	2	51100306A9	B.H.M. Screw B3 x 6
019F	1	1	1	2286271010	Holder
020F	1	1	1	2286271020	Holder
022F	3	3	3	51100306A9	B.H.M. Screw B3 x 6
031F	2	2	2	2286262500	Pulley
036F	1	1	1	2978259060	Bushing

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
038F	1	1	1	2286109050	Shield
039F	2	2	2	51100306A9	B.H.M. Screw B3 x 6
041F	1	1	1	4551259010	Bushing
111F	2	2	2	51100308A9	B.H.M. Screw B3 x 8
112F	2	2	2	53110303E9	Hexagon Nut
120F	1	1	1	3918104010	Retainer
121F	1	1	1	2286302010	Dial
121F	1	1	1	2286302020	Dial
123F	1	1	1	2218274033	Reflector, Stereo
130F	1	1	1	2991861010	Label
132F	1	1	1	2286262500	Pulley
133F	1	1	1	2286262500	Pulley
147F	1	1	1	2218274033	Reflector, Dolby
J009	1	1	1	YJ05000250	Jack, LED Socket
Q001	1	1	1	H110004030	L.E.D.
R004	1	1	1	RB01030240	Variable Resistor 10K Ω
R005	1	1	1	RB01030240	Variable Resistor 10K Ω
R006	1	1	1	RM02540440	Variable Resistor 250K Ω
V001	1	1	1	IN10080340	Lamp, Stereo
V004	1	1	1	IN10080340	Lamp, Dolby
PY00	1	1	1	YK22861220	P.W. Board, L.E.D.
	1	1	1	Z22861220	P.W. Board Assembly
PZ01	1	1	1	YF22860020	P.W. Board, Dial Illuminator
	1	1	1	Z22861020	P.W. Board Assembly
VZ01	6	6	6	IN10080070	Lamp 8V 0.2A
VZ06					

8.5 [P02-99] SCOPE DIAL ASSEMBLY AND P.W. BOARDS



REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
033B	1	1	1	2963154022	Knob
034B	10	10	9	2970154032	Knob
003F	2	2	2	51100306A9	B.H.M. Screw B3 x 6
025F	6	6	6	51100306A9	B.H.M. Screw B3 x 6
095F	1	1	1	51280306B0	B.H. Tapped Screw B3 x 6
140F	1			2219120010	Insulator
140F		1		2285120010	Insulator
140F			2	3926120010	Insulator
C001			1	DF17223800	Film Cap. 0.022 μ F $\pm$ 20% 1000V
C002			1	DF17223800	Film Cap. 0.022 μ F $\pm$ 20% 1000V
G001	1			BF10400030	Cap. Comp. Spark Killer
G001		1		DK18103520	Ceramic Cap. Spark Killer
R002	1	1	1	RM02030060	Variable Resistor, Output
R003	1	1	1	RK12030100	Variable Resistor, Muting
S001	1	1		SP01010210	Push Switch, Power
S001			1	SP02010300	Push Switch, Power
PR00	1	1	1	YK22861210	P.W. Board, Scope Switch
	1	1	1	ZZ22861210	P.W. Board Assembly
PS00	1	1	1	YK22860410	P.W. Board, AM/FM/Wide Switch
	1	1	1	ZZ22860410	P.W. Board, Assembly
PT00	1	1	1	YG22860040	P.W. Board, Mode Switch
	1	1		ZZ22860040	P.W. Board Assembly
			1	ZZ22868040	P.W. Board Assembly

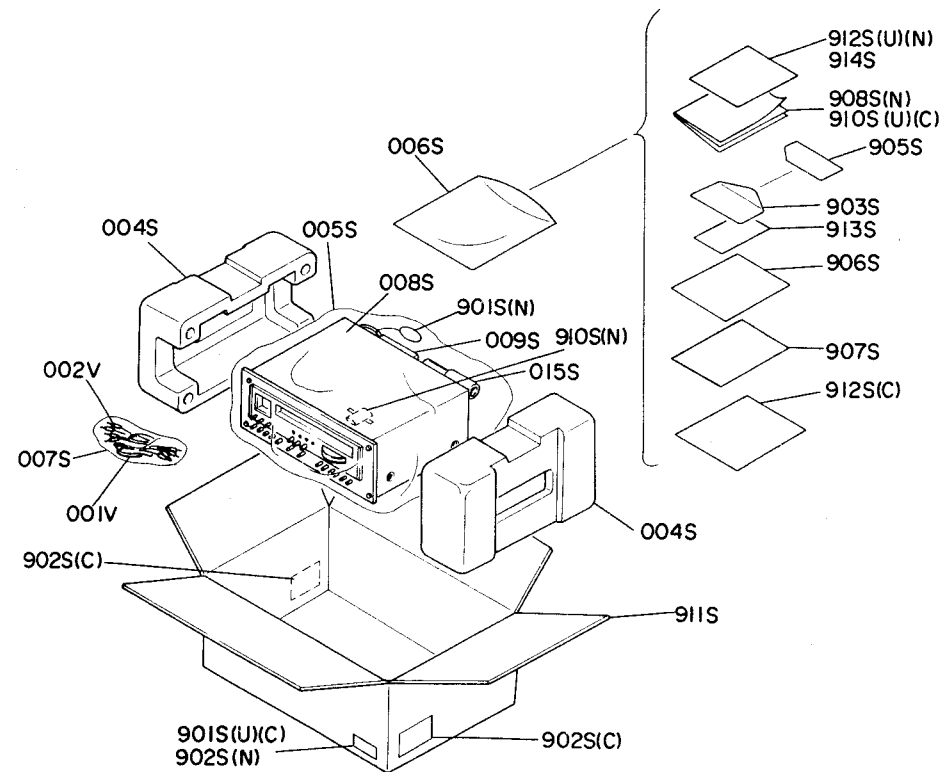
REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
D	1	1	1	2286302400	Scope Dial Assembly
002i	1	1	1	2286302030	Dial
003i	1	1	1	2286303010	Mask
004i	1	1	1	2286053030	Cover
001i	1	1	1	2286401010	Frame
005i	1	1	1	2219109012	Shield
006i	1	1	1	2219357012	Rod., Scope Pade
007i	1	1	1	2286005012	Clamper
008i	3	3	3	2219055020	Collar
009i	1	1	1	2904056022	Buffer
010i	1	1	1	2904005030	Clamper
011i	1	1	1	2207005010	Clamper
012i	1	1	1	54020301S0	Flat Washer, P.
013i	1	1	1	51100308S9	B.H.M. Screw B3 x 8
014i	2	2	2	51100304S9	B.H.M. Screw B3 x 4
015i	1	1	1	51100305S9	B.H.M. Screw B3 x 5
016i	3	3	3	51100316S9	B.H.M. Screw B3 x 16
017i	1	1	1	51280306B0	B.H. Tapped Screw B3 x 6
J011	1	1	1	YJ05000182	Jack, CRT Socket
V002	1	1	1	IN10080340	Lamp, Scale
V005	1	1	1	VB00235012	Picture Tube

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

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REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
126F			2	51280314B0	B.H. Tapped Screw B3 x 14
127F			1	2882861020	Label
128F	1	1	1	2286109080	Shield
141F	1	1	1	2963267020	Heatsink
143F	1	1	1	51280306U0	B.H. Tapped Screw B3 x 6
145F	2	2	2	2219267040	Heatsink
146F	4	4	4	50020305B9	B.H.M. Screw B3 x 5
147F	4	4	4	54040302A0	Spring Washer
148F	1	1	1	2887005012	Clamper
C003	1	1	1	DK18403020	Ceramic Cap. 0.04 μ F +100% -0
J003	1	1	1	YL01030210	Terminal
J010			1	YL09030010	Terminal
J914	1	1	1	YJ06001310	Jack (6P)
L002	1	1		TS15713010	Power Transformer
L002			1	TS15713020	Power Transformer
L003	1	1		TS15713040	Power Transformer
L003			1	TS15713050	Power Transformer
L005	1	1	1	LC13320020	Choke Coil 3.3 μ H
R001	1	1		RC10225120	Resistor 2.2M Ω $\pm$ 10% $\frac{1}{2}$ W
P100	1	1	1	YF22860010	P.W. Board, FM Front End
	1	1	1	ZZ22860010	P.W. Board Assembly
A001	1	1	1	AV11202010	V.H.F. Tuner, FM Front End
P200	1	1	1	YG22860010	P.W. Board, AM Tuner/FM IF
	1	1	1	ZZ22860010	P.W. Board Assembly
P300	1	1	1	YG22860020	P.W. Board, MPX
	1	1		ZZ22860020	P.W. Board Assembly
			1	ZZ22868020	P.W. Board Assembly
P800	1	1		YG22860030	P.W. Board, Power Supply
	1	1		ZZ22860030	P.W. Board Assembly
P800			1	YG22860050	P.W. Board, Power Supply
			1	ZZ22868050	P.W. Board Assembly
P900	1	1	1	YK22190310	P.W. Board, Scope Amp
	1	1	1	ZZ22860310	P.W. Board Assembly
PC50	1	1	1	YK22860220	P.W. Board, PLL, OSC
	1	1	1	ZZ22860220	P.W. Board Assembly

8.7 [H01-99] PACKING MATERIALS



•(U) for U.S.A.
•(C) for Canada
•(N) for Europe

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
004S	2	2	2	2965809012	Cushion
005S	1	1	1	9014335330	Polyethy Bag
006S	1	1	1	9013025010	Polyethy Bag
007S	1	1	1	9011325010	Polyethy Bag
008S	1	1	1	2918107170	Sheet
009S	1	1	1	2864804010	Sleeve
015S	1	1	1	2819056010	Buffer
901S	2			9526019010	Serial No Card
901S		2		9526019020	Serial No Card
901S		1		9560000043	Hang Tag
902S	1			9510901020	Label
902S		2		9526019060	Serial No Card
903S	1			2918813012	Envelope
903S		1		2818813010	Envelope
905S	1	1		9630000180	Guarantee Card
906S	1			9650000053	S. Station Card
907S	1			2818854024	Guarantee Card
907S		1		2818854042	Guarantee Card
908S		1		2286851310	Instructions
910S	1			2286851010	Instructions

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
910S		1		2286851310	Instructions
910S			1	2731821010	Silicagel
911S		1		2286801010	Packing Case
911S		1		2286801150	Packing Case
911S			1	2286801020	Packing Case
912S		1		2286851020	Instructions
912S			1	2886851100	Instructions
912S			1	2886851030	Instructions
913S		1		2225813010	Envelope
914S		1		2286851050	Instructions
001V	1	1	1	ZA02000070	EXT. Antenna, FM
002V	1	1	1	ZD01500160	Connective Cord

8.8 ELECTRICAL PARTS LIST

•(U) for U.S.A.
•(C) for Canada
•(N) for Europe

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
P100	1	1	1	YF22860010	P100-FM FRONT END
	1	1	1	ZZ22860010	CIRCUIT BOARD
					P.W. Board, FM Front End
					P.W. Board Assembly
C101	1	1	1	DD15150370	P100-CAPACITORS
C102	1	1	1	DD15470030	Ceramic 15pF ±5%
C103	1	1	1	DD15101370	Ceramic 47pF ±5%
C104	1	1	1	DK18223320	Ceramic 100pF ±5%
C105	1	1	1	DK18223320	Ceramic 0.022μF
C106	1	1	1	DK18223320	Ceramic 0.022μF
C107	1	1	1	DD15180300	Ceramic 18pF ±5%
C108	1	1	1	DD15180300	Ceramic 18pF ±5%
C109	1	1	1	DK18223320	Ceramic 0.022μF
C110	1	1	1	DD15101370	Ceramic 100pF ±5%
C111	1	1	1	DK18223320	Ceramic 0.022μF +100% -0
C112	1	1	1	DK18223320	Ceramic 0.022μF
C113	1	1	1	DK18223320	Ceramic 0.022μF
C114	1	1	1	DD11100370	Ceramic 10pF ±0.5pF
C115	1	1	1	DD15150300	Ceramic 15pF ±5%
C116	1	1	1	DD10050370	Ceramic 5pF ±0.25pF
C117	1	1	1	DK16102300	Ceramic 1000pF ±10%
C118	1	1	1	DK16102300	Ceramic 1000pF ±10%
C119	1	1	1	DK18102300	Ceramic 1000pF +100% -0
C120	1	1	1	DD15470030	Ceramic 47pF ±5%
C121	1	1	1	DD11100300	Ceramic 10pF ±0.5pF
C122	1	1	1	DD15120310	Ceramic 12pF ±5%
C123	1	1	1	DD10010370	Ceramic 1pF ±0.25pF
C124	1	1	1	DD15150310	Ceramic 15pF ±5%
C125	1	1	1	DD10030300	Ceramic 3pF ±0.25pF
C126	1	1	1	DK17102370	Ceramic 1000pF ±20%
C127	1	1	1	DK17102370	Ceramic 1000pF ±20%
A001	1	1	1	AV11202010	Front End
R101	1	1	1	GD05473140	P100-RESISTORS
R102	1	1	1	GD05104140	(All Resistors are ±5% and ¼W)
R103	1	1	1	GD05105140	47KΩ
R104	1	1	1	GD05104140	100KΩ
R105	1	1	1	GD05101140	1MΩ
R106	1	1	1	GD05101140	100KΩ
R107	1	1	1	GD05182140	100Ω
R108	1	1	1	GD05473140	1.8KΩ
R109	1	1	1	GD05102140	47KΩ
R110	1	1	1	GD05153140	1KΩ
R111	1	1	1	GD05101140	15KΩ
R112	1	1	1	GD05101140	100Ω
R113	1	1	1	GD05473140	100Ω
R114	1	1	1	GD05561140	47KΩ
R115	1	1	1	GD05101140	560Ω
R116	1	1	1	GD05101140	100Ω
R117	1	1	1	GD05153140	100Ω
R118	1	1	1	GD05101140	15KΩ
R119	1	1	1	GD05122140	100Ω
R120	1	1	1	GD05472140	1.2KΩ
R121	1	1	1	GD05103140	4.7KΩ
R122	1	1	1	GD05473140	10KΩ
R123	1	1	1	GD05473140	47KΩ

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
Q101	1	1	1	HF400591A0	P100-SEMICONDUCTORS
Q102	1	1	1	HF400591A0	F.E.T. 3SK59
Q103	1	1	1	HF400591A0	F.E.T. 3SK59
Q104	1	1	1	HT307101C0	F.E.T. 3SK59
Q105	1	1	1	HD40012090	Transistor 2SC710C
					Varicap 1S2687
J101	5	5	5	YJ06001150	P100-JACK
J105					Jack
P200	1	1	1	YG22860010	P200-AM TUNER/FM IF/DET
	1	1	1	ZZ22860010	CIRCUIT BOARD
					P.W. Board, AM Tuner/FM
					IF/Det
					P.W. Board Assembly
CB01	1	1	1	DK18403320	P200-CAPACITORS
CB02	1	1	1	DK18403320	Ceramic 0.04μF +100% -0
CB03	1	1	1	EA10505090	Ceramic 0.04μF
CB04	1	1	1	EA10701690	Elect 1μF 50V
CB05	1	1	1	DK18403320	Elect 100μF 16V
CB06	1	1	1	DK18403320	Ceramic 0.04μF +100% -0
CB07	1	1	1	DK18223310	Ceramic 0.04μF +100% -0
CB08	1	1	1	DK18223310	Ceramic 0.022μF +100% -0
CB09	1	1	1	DK18403320	Ceramic 0.022μF +100% -0
C151	1	1	1	DF17103300	Film 0.01μF ±20%
C152	1	1	1	DF15391010	Film 390pF ±5%
C153	1	1	1	DF17403010	Film 0.04μF ±20%
C154	1	1	1	DF17102310	Film 0.001μF ±20%
C155	1	1	1	DF17103010	Film 0.01μF ±20%
C156	1	1	1	DK18403320	Ceramic 0.04μF +100% -0
C157	1	1	1	DD11100370	Ceramic 10pF ±0.5pF
C158	1	1	1	DF17103300	Film 0.01μF ±20%
C159	1	1	1	EA10701690	Elect 100μF 16V
C160	1	1	1	DF17393300	Film 0.039μF ±20%
C161	1	1	1	EA33502590	Elect 3.3μF 25V
C162	1	1	1	DF17473300	Film 0.047μF ±20%
C163	1	1	1	EA47503590	Elect 4.7μF 35V
C164	1	1	1	DK17102010	Ceramic 0.001μF ±20%
C165	1	1	1	DF17103300	Film 0.01μF ±20%
C166	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C167	1	1	1	EA10701690	Elect 100μF 16V
C168	1	1	1	EE10405040	Elect 0.1μF 50V
C169	1	1	1	DK16472300	Ceramic 0.0047μF ±10%
C201	1	1	1	DK18223310	Ceramic 0.022μF
C202	1	1	1	DK18223310	Ceramic 0.022μF
C203	1	1	1	DK18403320	Ceramic 0.04μF
C204	1	1	1	DK18403320	Ceramic 0.04μF
C205	1	1	1	DK18223310	Ceramic 0.022μF
C206	1	1	1	DK18223310	Ceramic 0.022μF
C207	1	1	1	DK18223310	Ceramic 0.022μF
C208	1	1	1	DK18223310	Ceramic 0.022μF
C209	1	1	1	DK18223310	Ceramic 0.022μF
C210	1	1	1	DK18223310	Ceramic 0.022μF

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

REF. DESIG.	QTY			PART NO.	DESCRIPTION	
	U	C	N			
C211	1	1	1	DK18223310	Ceramic 0.022 μ F	
C212	1	1	1	DK18223310	Ceramic 0.022 μ F	
C213	1	1	1	DK18223310	Ceramic 0.022 μ F	
C214	1	1	1	DK18223310	Ceramic 0.022 μ F	
C215	1	1	1	DK18223310	Ceramic 0.022 μ F	
C216	1	1	1	DK18403320	Ceramic 0.04 μ F	
C218	1	1	1	DK18223310	Ceramic 0.022 μ F	
C219	1	1	1	DK18403320	Ceramic 0.04 μ F	
C220	1	1	1	DK18223310	Ceramic 0.022 μ F	
C221	1	1	1	DK18223310	Ceramic 0.022 μ F	
C222	1	1	1	DK18223310	Ceramic 0.022 μ F	
C223	1	1	1	DK18403320	Ceramic 0.04 μ F	
C224	1	1	1	DK18223310	Ceramic 0.002 μ F	
C225	1	1	1	DK18223310	Ceramic 0.002 μ F	
C226	1	1	1	DK18223310	Ceramic 0.002 μ F	
C227	1	1	1	DK18223310	Ceramic 0.002 μ F	
C228	1	1	1	DK18223310	Ceramic 0.002 μ F	
C229	1	1	1	DK18223310	Ceramic 0.002 μ F	
C230	1	1	1	DK18223310	Ceramic 0.002 μ F	
C231	1	1	1	EA47602590	Elect 47 μ F	25V
C232	1	1	1	DK18223310	Ceramic 0.022 μ F	
C233	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C234	1	1	1	EA47503590	Elect 4.7 μ F	35V
C235	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C236	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C237	1	1	1	DK18403320	Ceramic 0.04 μ F +100%—0	
C238	1	1	1	DK18403320	Ceramic 0.04 μ F +100%—0	
C239	1	1	1	DK18223310	Ceramic 0.022 μ F	
C240	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C241	1	1	1	DK18223310	Ceramic 0.022 μ F	
C242	1	1	1	DK18223310	Ceramic 0.022 μ F	
C243	1	1	1	DK18223310	Ceramic 0.022 μ F	
C244	1	1	1	DK18223310	Ceramic 0.022 μ F	
C245	1	1	1	DK18223310	Ceramic 0.022 μ F	
C246	1	1	1	DK18223310	Ceramic 0.022 μ F	
C247	1	1	1	DK18403320	Ceramic 0.04 μ F	
C248	1	1	1	DK18223310	Ceramic 0.022 μ F	
C249	1	1	1	DF55152030	Film 1500pF $\pm 5\%$	
C250	1	1	1	DF55681010	Film 680pF $\pm 5\%$	
C251	1	1	1	DF55911010	Film 910pF $\pm 5\%$	
C252	1	1	1	DF55471010	Film 470pF $\pm 5\%$	
C253	1	1	1	DF15102300	Film 0.001 μ F $\pm 5\%$	
C254	1	1	1	EA10701690	Elect 100 μ F	16V
C255	1	1	1	EA10701690	Elect 100 μ F	16V
C256	1	1	1	DK18223310	Ceramic 0.022 μ F	
C257	1	1	1	DK18223310	Ceramic 0.022 μ F	
C258	1	1	1	DK16221300	Ceramic 220pF	
C259	1	1	1	EV22403560	Elect 0.22 μ F	35V
C260	1	1	1	DK18403320	Ceramic 0.04 μ F	
C261	1	1	1	DK18223310	Ceramic 0.022 μ F +100%—0	
C262	1	1	1	DK18223310	Ceramic 0.022 μ F +100%—0	
C263	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C264	1	1	1	EA10505090	Elect 1 μ F	50V
C265	1	1	1	DK18223310	Ceramic 0.022 μ F	
C266	1	1	1	DK18223310	Ceramic 0.022 μ F	

REF. DESIG.	QTY			PART NO.	DESCRIPTION	
	U	C	N			
C267	1	1	1	DK18223310	Ceramic 0.022 μ F	
C268	1	1	1	DK18223310	Ceramic 0.022 μ F	
C269	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C270	1	1	1	DK18223310	Ceramic 0.022 μ F	
C271	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C272	1	1	1	EA10505090	Elect 1 μ F	50V
C273	1	1	1	DK18223310	Ceramic 0.022 μ F	
C274	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C275	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C276	1	1	1	DK18223310	Ceramic 0.022 μ F	
C278	1	1	1	DK18223310	Ceramic 0.022 μ F	
C279	1	1	1	EE10405040	Elect 0.1 μ F	50V
C280	1	1	1	DK18223310	Ceramic 0.022 μ F	
C281	1	1	1	DK18223310	Ceramic 0.022 μ F	
C282	1	1	1	DK18223310	Ceramic 0.022 μ F	
C283	1	1	1	DK18223310	Ceramic 0.02 μ F	
C284	1	1	1	DK18223310	Ceramic 0.022 μ F	
C285	1	1	1	DK18223310	Ceramic 0.022 μ F	
C286	1	1	1	DK18223310	Ceramic 0.022 μ F	
C287	1	1	1	DK18223310	Ceramic 0.022 μ F	
C288	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C289	1	1	1	EE10405040	Elect 0.1 μ F	50V
C290	1	1	1	EA10601690	Elect 10 μ F	16V
C291	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C292	1	1	1	DK16221300	Ceramic 220pF $\pm 10\%$	
C293	1	1	1	EA10505090	Elect 1 μ F	50V
C294	1	1	1	CT15000010	Trimming 50pF	
C295	1	1	1	DK18403320	Ceramic 0.04 μ F +100%—0	
C296	1	1	1	DK18223310	Ceramic 0.022 μ F +100%—0	
C297	1	1	1	DK18223310	Ceramic 0.022 μ F +100%—0	
C298	1	1	1	DK18223310	Ceramic 0.022 μ F +100%—0	
C299	1	1	1	DK18403320	Ceramic 0.04 μ F +100%—0	
P200-RESISTORS (All Resistors are $\pm 5\%$ and $\frac{1}{4}W$)						
RB01	1	1	1	GD05273140	27K Ω	
RB03	1	1	1	GD05473140	47K Ω	
RB04	1	1	1	GD05102140	1K Ω	
RB05	1	1	1	GD05102140	1K Ω	
RB06	1	1	1	GD05102140	1K Ω	
RB07	1	1	1	GD05102140	1K Ω	
RB08	1	1	1	GD05104140	100K Ω	
RB09	1	1	1	GD05104140	100K Ω	
RB10	1	1	1	RA01030250	Trimming 10K Ω (B)	
RB11	1	1	1	RA01030250	Trimming 10K Ω (B)	
RB12	1	1	1	GD05102140	1K Ω	
RB13	1	1	1	GD05103140	10K Ω	
RB14	1	1	1	GD05562140	5.6K Ω	
RB15	1	1	1	GD05102140	1K Ω	
RB16	1	1	1	GD05102140	1K Ω	
RB17	1	1	1	GD05102140	1K Ω	
RB18	1	1	1	GD05101140	100 Ω	
RB19	1	1	1	GD05151140	150 Ω	
RB20	1	1	1	GD05822140	8.2K Ω	
RB21	1	1	1	GD05153140	15K Ω	

•(U) for U.S.A.
 •(C) for Canada
 •(N) for Europe

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
RB22	1	1	1	GD05102140	1K Ω
RB23	1	1	1	GD05103140	10K Ω
RB24	1	1	1	GD05101140	100 Ω
RB25	1	1	1	GD05223140	22K Ω
RB26	1	1	1	GD05104140	100K Ω
RB27	1	1	1	RA02540010	Trimming 250K Ω (B)
RB28	1	1	1	GD05564140	560K Ω
RB29	1	1	1	GD05821140	820 Ω
RB30	1	1	1	GD05821140	820 Ω
RB31	1	1	1	GD05682140	6.8K Ω
RB32	1	1	1	GD05682140	6.8K Ω
RB33	1	1	1	GD05223140	22K Ω
RB34	1	1	1	GG05100140	10 Ω
RB35	1	1	1	GD05562140	5.6K Ω
RB36	1	1	1	GD05223140	22K Ω
RB37	1	1	1	GD05101140	100 Ω
RB39	1	1	1	GD05102140	1K Ω
RB40	1	1	1	GG05510140	51 Ω
RB42	1	1	1	GD05473140	47K Ω
RB43	1	1	1	GD05101140	100 Ω
RB44	1	1	1	GD05184140	180K Ω
RB45	1	1	1	GD05102140	1K Ω
RB46	1	1	1	GD05472140	4.7K Ω
RB47	1	1	1	RA01040180	Trimming 100K Ω (B)
RB48	1	1	1	GG05510140	51 Ω
RB49	1	1	1	GD05221140	220 Ω
RB50	1	1	1	GD05102140	1K Ω
R151	1	1	1	GD05510140	51 Ω
R152	1	1	1	RA01030250	Trimming 10K Ω (B)
R153	1	1	1	GD05103140	10K Ω
R154	1	1	1	GD05103140	10K Ω
R155	1	1	1	GD05102140	1K Ω
R156	1	1	1	GD05102140	1K Ω
R157	1	1	1	GD05201140	200 Ω
R158	1	1	1	GG05101140	100 Ω
R160	1	1	1	GD05104140	100K Ω
R161	1	1	1	GD05103140	10K Ω
R162	1	1	1	GD05332140	3.3K Ω
R201	1	1	1	GD05331140	330 Ω
R202	1	1	1	GD05102140	1K Ω
R203	1	1	1	GD05101140	100 Ω
R204	1	1	1	GD05102140	1K Ω
R205	1	1	1	GD05202140	2K Ω
R206	1	1	1	GD05153140	15K Ω
R207	1	1	1	GD05201140	220 Ω
R208	1	1	1	GD05102140	1K Ω
R209	1	1	1	GD05102140	1K Ω
R210	1	1	1	GD05102140	1K Ω
R211	1	1	1	GD05102140	1K Ω
R212	1	1	1	GD05102140	1K Ω
R213	1	1	1	GD05101140	100 Ω
R214	1	1	1	GD05101140	100 Ω
R215	1	1	1	GD05562140	5.6K Ω
R216	1	1	1	GD05104140	100K Ω
R217	1	1	1	GD05331140	330 Ω
R218	1	1	1	GD05101140	100 Ω
R219	1	1	1	GD05331140	330 Ω
R220	1	1	1	GD05102140	1K Ω

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
R221	1	1	1	GD05101140	100 Ω
R222	1	1	1	GD05101140	100 Ω
R223	1	1	1	GD05102140	1K Ω
R224	1	1	1	GD05102140	1K Ω
R225	1	1	1	GD05102140	1K Ω
R226	1	1	1	GD05102140	1K Ω
R227	1	1	1	GD05151140	150 Ω
R228	1	1	1	GD05152140	1.5K Ω
R229	1	1	1	GD05121140	120 Ω
R230	1	1	1	GD05302140	3K Ω
R231	1	1	1	GD05103140	10K Ω
R232	1	1	1	GD05152140	1.5K Ω
R233	1	1	1	GD05510140	51 Ω
R234	1	1	1	GD05101140	100 Ω
R236	1	1	1	GD05821140	820 Ω
R237	1	1	1	GD05682140	6.8K Ω
R238	1	1	1	GD05821140	820 Ω
R239	1	1	1	GD05682140	6.8K Ω
R240	1	1	1	GD05331140	330 Ω
R241	1	1	1	GD05270140	27 Ω
R242	1	1	1	GD05270140	27 Ω
R243	1	1	1	GD05331140	330 Ω
R244	1	1	1	GD05202140	2K Ω
R245	1	1	1	GD05153140	15K Ω
R246	1	1	1	GD05201140	200 Ω
R247	1	1	1	GD05102140	1K Ω
R248	1	1	1	GD05101140	100 Ω
R249	1	1	1	GD05102140	1K Ω
R250	1	1	1	GD05331140	330 Ω
R251	1	1	1	GD05331140	330 Ω
R252	1	1	1	GD05101140	100 Ω
R253	1	1	1	GD05101140	100 Ω
R254	1	1	1	GD05331140	330 Ω
R255	1	1	1	GD05331140	330 Ω
R256	1	1	1	GD05272140	2.7K Ω
R257	1	1	1	GD05272140	2.7K Ω
R258	1	1	1	GD05103140	10K Ω
R259	1	1	1	GD05182140	18K Ω
R260	1	1	1	GD05913140	91K Ω
R261	1	1	1	GD05682140	6.8K Ω
R262	1	1	1	GD05682140	6.8K Ω
R263	1	1	1	GD05823140	82K Ω
R264	1	1	1	GD05473140	47K Ω
R265	1	1	1	GD05562140	5.6K Ω
R266	1	1	1	GD05101140	100 Ω
R267	1	1	1	GD05101140	100 Ω
R268	1	1	1	GD05101140	100 Ω
R269	1	1	1	GD05101140	100 Ω
R270	1	1	1	GD05331140	330 Ω
R271	1	1	1	GD05153140	15K Ω
R272	1	1	1	GD05472140	4.7K Ω
R273	1	1	1	GD05102140	1K Ω
R274	1	1	1	GD05222140	2.2K Ω
R275	1	1	1	GD05392140	3.9K Ω
R276	1	1	1	GD05223140	22K Ω

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

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
R277	1	1	1	GD05102140	1K Ω
R278	1	1	1	GD05152140	1.5K Ω
R279	1	1	1	GD05273140	27K Ω
R280	1	1	1	GD05473140	47K Ω
R281	1	1	1	GD05473140	47K Ω
R282	1	1	1	GD05102140	1K Ω
R283	1	1	1	GD05272140	2.7K Ω
R284	1	1	1	GD05102140	1K Ω
R285	1	1	1	GD05153140	15K Ω
R286	1	1	1	GD05472140	4.7K Ω
R287	1	1	1	GD05102140	1K Ω
R288	1	1	1	GD05102140	1K Ω
R289	1	1	1	GD05513140	51K Ω
R290	1	1	1	GD05102140	1K Ω
R291	1	1	1	GD05273140	27K Ω
R292	1	1	1	GD05223140	22K Ω
R293	1	1	1	GD05473140	47K Ω
R294	1	1	1	GD05472140	4.7K Ω
R295	1	1	1	GD05193140	15K Ω
R296	1	1	1	GD05102140	1K Ω
R297	1	1	1	GD05102140	1K Ω
R298	1	1	1	GD05101140	100 Ω
R299	1	1	1	GD05101140	100 Ω
P200-SEMICONDUCTORS					
Q151	1	1	1	HC10019010	IC HA1197
Q152	1	1	1	HV00006120	Varistor
Q201	1	1	1	HF200191A0	F.E.T. 2SK19 (Y)
Q202	1	1	1	HT310471C0	Transistor 2SC1047 (C)
Q203	1	1	1	HC10019030	IC LA1222
Q204	1	1	1	HD20011050	Diode 1S1555
Q205	1	1	1	HF200191A0	F.E.T. 2SK19 (Y)
Q206	1	1	1	HC10017060	IC μ PC1163H
Q207	1	1	1	HC10017060	IC μ PC1163H
Q208	1	1	1	HC10019030	IC LA1222
Q209	1	1	1	HT308291C0	Transistor 2SC829 (C)
Q210	1	1	1	HT308291C0	Transistor 2SC829 (C)
Q211	1	1	1	HD20011050	Diode 1S1555
Q212	1	1	1	HD20011050	Diode 1S1555
Q213	1	1	1	HF200191A0	F.E.T. 2SK19 (Y)
Q214	1	1	1	HT310471C0	Transistor 2SC1047 (C)
Q215	1	1	1	HC10019030	IC LA1222
Q216	1	1	1	HC10017060	IC μ PC1163H
Q217	1	1	1	HT108422A0	Transistor 2SA842 (GR or BL)
Q218	1	1	1	HT315832B0	Transistor 2SC1583 (G or H)
Q219	1	1	1	HT308291C0	Transistor 2SC829C
Q220	1	1	1	HD10003020	Diode 20A90
Q221	1	1	1	HD10003020	Diode 20A90
Q222	1	1	1	HD10003020	Diode 20A90
Q223	1	1	1	HD10003020	Diode 20A90
Q224	1	1	1	HC10011060	IC μ PC555H
Q225	1	1	1	HT308291C0	Transistor 2SC829C
Q226	1	1	1	HD10003020	Diode 20A90
Q227	1	1	1	HD10003020	Diode 20A90
Q228	1	1	1	HT308291C0	Transistor 2SC829C

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
Q229	1	1	1	HD10003020	Diode 20A90
Q230	1	1	1	HD10003020	Diode 20A90
Q231	1	1	1	HC10019030	IC LA1222
Q232	1	1	1	HF200300D0	F.E.T. 2SK30
Q233	1	1	1	HT308291C0	Transistor 2SC829C
Q234	1	1	1	HT308291C0	Transistor 2SC829C
Q235	1	1	1	HD20011050	Diode 1S1555
Q236	1	1	1	HD20011050	Diode 1S1555
Q237	1	1	1	HD10003020	Diode 20A90
P200-MISCELLANEOUS					
F151	1	1	1	FF10045190	Ceramic Filter 455kHz
F201	1	1	1	FF31070010	L.C. Filter
F202	1	1	1	FF11070550	Ceramic Filter 10.7MHz
F203	1	1	1	FF11070540	Ceramic Filter 10.7MHz
F204	1	1	1	FF11070540	Ceramic Filter 10.7MHz
F205	1	1	1	FF11070550	Ceramic Filter 10.7MHz
F206	1	1	1	FF11070530	Ceramic Filter 10.7MHz
L151	1	1	1	LA10010190	Ant. Coil, AM RF
L152	1	1	1	LO10010480	OSC Coil, AM
L153	1	1	1	LI10010720	I.F.T. AM
L154	1	1	1	LI10015060	I.F.T. AM
L201	1	1	1	LC13320020	Choke Coil 3.3 μ H
L202	1	1	1	LI10156060	I.F.T. FM
L203	1	1	1	LI10016160	I.F.T. FM
L204	1	1	1	LC13320020	Choke Coil 3.3 μ H
L205	1	1	1	LI10156170	I.F.T. FM
L206	1	1	1	LI10156180	I.F.T. FM
L207	1	1	1	LS10290180	M.P.X. Coil
L208	1	1	1	LS10290170	M.P.X. Coil
L209	1	1	1	LS10290160	M.P.X. Coil
L210	1	1	1	LC13320020	Choke Coil 3.3 μ H
L211	1	1	1	LC12230020	Choke Coil 22 μ H
L212	1	1	1	LI10156190	I.F.T. FM
L213	1	1	1	LI10156200	I.F.T. FM
L214	1	1	1	LC13320020	Choke Coil 3.3 μ H
P300-MPX CIRCUIT BOARD					
P300	1	1	1	YG22860020	P.W. Board, MPX
	1	1		ZZ22860020	P.W. Board Assembly
			1	ZZ22868020	P.W. Board Assembly
P300-CAPACITORS					
C301	1	1	1	EA10601690	Elect 10 μ F 16V
C302	1	1	1	DF16222300	Film 0.0022 μ F $\pm$ 10%
C303	1	1	1	EA33502590	Elect 3.3 μ F 25V
C304	1	1	1	EQ47405010	Elect 0.47 μ F 50V
C305	1	1	1	EV33403560	Elect 0.33 μ F 35V
C306	1	1	1	EA33502590	Elect 3.3 μ F 25V
C307	1	1	1	EV33403560	Elect 0.33 μ F 35V
C308	1	1	1	DF17473010	Film 0.047 μ F $\pm$ 20%
C309	1	1	1	DF15103050	Film 0.01 μ F $\pm$ 5%
C310	1	1	1	DF55102090	Film 0.001 μ F $\pm$ 5%

- (U) for U.S.A.
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REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
C311	1	1	1	DF17473010	Film 0.047 μ F $\pm$ 20%
C312	1	1	1	DF17683010	Film 0.068 μ F $\pm$ 20%
C313	1	1	1	EA10505090	Elect 1 μ F 50V
C314	1	1	1	EA47405090	Elect 0.47 μ F 50V
C315	1	1	1	EA47405090	Elect 0.47 μ F 50V
C316	1	1	1	EA10701690	Elect 100 μ F 16V
C317	1	1	1	EA10701690	Elect 100 μ F 16V
C318	1	1	1	DF16152050	Film 0.0015 μ F $\pm$ 10%
C319	1	1	1	DF15272050	Film 2700pF $\pm$ 5%
C319	1	1	1	DF15562050	Film 5600pF $\pm$ 5%
C320	1	1	1	DF15562050	Film 5600pF $\pm$ 5%
C321	1	1	1	DF15562050	Film 5600pF $\pm$ 5%
C322	1	1	1	DF15272050	Film 2700pF $\pm$ 5%
C322	1	1	1	DF15562050	Film 5600pF $\pm$ 5%
C323	1	1	1	EA10601690	Elect 10 μ F 16V
C324	1	1	1	EA10601690	Elect 10 μ F 16V
C325	1	1	1	EA10701090	Elect 100 μ F 10V
C326	1	1	1	EA10701090	Elect 100 μ F 10V
C327	1	1	1	EA22701690	Elect 220 μ F 16V
C328	1	1	1	DD11100370	Ceramic 10pF $\pm$ 0.5pF
C329	1	1	1	DK18104010	Ceramic 0.1 μ F
C330	1	1	1	DK18104010	Ceramic 0.1 μ F
C321	1	1	1	DK18104010	Ceramic 0.1 μ F
C332	1	1	1	DK18403320	Ceramic 0.04 μ F +100% -0
P300-RESISTORS (All Resistors are $\pm$ 5% and 1/4W)					
R301	1	1	1	GD05102140	1K Ω
R302	1	1	1	RA01040220	Trimming 100K Ω (B)
R303	1	1	1	GD05333140	33K Ω
R304	1	1	1	GD05102140	1K Ω
R305	1	1	1	GD05680140	68 Ω
R306	1	1	1	GD05512140	5.1K Ω
R307	1	1	1	GD05392140	3.9K Ω
R308	1	1	1	GD05392140	3.9K Ω
R309	1	1	1	GD05512140	5.1K Ω
R310	1	1	1	GD05820140	82 Ω
R311	1	1	1	GD05562140	5.6K Ω
R312	1	1	1	GD05272140	2.7K Ω
R313	1	1	1	RA04720070	Trimming 4.7K Ω (B)
R314	1	1	1	GD05224140	220K Ω
R315	1	1	1	GD05333140	33K Ω
R316	1	1	1	GD05224140	220K Ω
R317	1	1	1	GD05682140	6.8K Ω
R318	1	1	1	GD05102140	1K Ω
R319	1	1	1	GD05104140	100K Ω
R321	1	1	1	GD05104140	100K Ω
R322	1	1	1	GD05273140	27K Ω
R323	1	1	1	GD05104140	100K Ω
R324	1	1	1	GD05102140	1K Ω
R325	1	1	1	GD05101140	100 Ω
R326	1	1	1	GD05333140	33K Ω
R327	1	1	1	GD05273140	27K Ω
R328	1	1	1	GD05101140	100 Ω
R329	1	1	1	GD05101140	100 Ω
R330	1	1	1	GD05102140	1K Ω
R331	1	1	1	GD05102140	1K Ω

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
R332	1	1	1	GD05222140	2.2K Ω
R333	1	1	1	GD05302140	3K Ω
R334	1	1	1	GD05302140	3K Ω
R335	1	1	1	GD05222140	2.2K Ω
R336	1	1	1	GD05104140	100K Ω
R337	1	1	1	GD05102140	1K Ω
R339	1	1	1	GD05123140	12K Ω
R341	1	1	1	GD05822140	8.2K Ω
R342	1	1	1	GD05564140	560K Ω
R343	1	1	1	GD05470140	47 Ω
R344	1	1	1	GD05332140	3.3K Ω
R345	1	1	1	GD05103140	10K Ω
R347	1	1	1	GD05104140	100K Ω
R348	1	1	1	GD05102140	1K Ω
R349	1	1	1	RA04730070	Trimming, 47K Ω (B)
R350	1	1	1	GD05223140	22K Ω
R351	1	1	1	GD05333140	33K Ω
R352	1	1	1	GD05333140	33K Ω
R353	1	1	1	GD05274140	270K Ω
R354	1	1	1	GD05331140	330 Ω
R356	1	1	1	GD05332140	3.3K Ω
R357	1	1	1	GD05332140	3.3K Ω
R358	1	1	1	GD05332140	3.3K Ω
R359	1	1	1	GD05332140	3.3K Ω
R360	1	1	1	GD05103140	10K Ω
R361	1	1	1	GD05103140	10K Ω
R362	1	1	1	GD05561140	560 Ω
R363	1	1	1	GD05561140	560 Ω
R364	1	1	1	GD05272140	2.7K Ω
R365	1	1	1	GD05272140	2.7K Ω
R366	1	1	1	RA01040220	Trimming, 100K Ω (B)
R367	1	1	1	RA01040220	Trimming, 100K Ω (B)
R368	1	1	1	RA01040220	Trimming, 100K Ω (B)
R369	1	1	1	RA01040220	Trimming, 100K Ω (B)
R370	1	1	1	GD05510410	51 Ω
R371	1	1	1	GD05333140	33K Ω
R372	1	1	1	GD05333140	33K Ω
R373	1	1	1	GD05183140	18K Ω
R374	1	1	1	GD05224140	220K Ω
R375	1	1	1	GD05221140	220 Ω
R376	1	1	1	GD05510140	51 Ω
P300-SEMICONDUCTORS					
Q301	1	1	1	HC10029010	IC HA11223
Q302	1	1	1	HT309452A0	Transistor 2SC945(P or N)
Q303	1	1	1	HT309452A0	Transistor 2SC945(P or N)
Q304	1	1	1	HT309452A0	Transistor 2SC945(P or N)
Q305	1	1	1	HT309452A0	Transistor 2SC945(P or N)
Q306	1	1	1	HT309452A0	Transistor 2SC945(P or N)
Q307	1	1	1	HD10003020	Diode 20A90
Q308	1	1	1	HD10003020	Diode 20A90
Q309	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q310	1	1	1	HT108422A0	Transistor 2SA842(G or BL)

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

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
Q311	1	1	1	HT108422A0	Transistor 2SA842(GR or BL)
Q312	1	1	1	HT309452A0	Transistor 2SC945(P or Q)
Q313	1	1	1	HT309452A0	Transistor 2SC945(P or Q)
Q314	1	1	1	HD20011050	Diode 1S1555
Q315	1	1	1	HT309452A0	Transistor 2SC945(P or Q)
Q316	1	1	1	HT309452A0	Transistor 2SC945(P or Q)
Q317	1	1	1	HT309452A0	Transistor 2SC945(P or Q)
Q318	1	1	1	HT309452A0	Transistor 2SC945(P or Q)
Q319	1	1	1	HT309452A0	Transistor 2SC945(P or Q)
Q320	1	1	1	HD20011050	Diode 1S1555
Q321	1	1	1	HC10003090	IC NSM4558D
Q322	1	1	1	HD20011050	Diode 1S1555
P300-COILS					
L301	1	1	1	LS35050010	M.P.X. Coil
L302	1	1	1	LS35050010	M.P.X. Coil
L303	1	1	1	LC21058010	Choke Coil 1mH
P800-POWER SUPPLY CIRCUIT BOARD					
P800	1	1		YG22860030	P.W. Board, Power Supply
	1	1		ZZ22860030	P.W. Board Assembly
P800			1	YG22860050	P.W. Board, Power Supply
			1	YG22860050	P.W. Board Assembly
P800-CAPACITORS					
C801	1	1	1	EA10635010	Elect 10 μ F 350V
C802	1	1	1	EA10635010	Elect 10 μ F 350V
C803	1	1	1	EA10625010	Elect 10 μ F 250V
C804	1	1	1	EA10625010	Elect 10 μ F 250V
C805	1	1	1	EA33502590	Elect 3.3 μ F 25V
C806	1	1	1	EA22702590	Elect 220 μ F 25V
C807	1	1	1	EB22802560	Elect 2200 μ F 25V
C808	1	1	1	EA10701690	Elect 100 μ F 25V
C809	1	1	1	EA47702590	Elect 470 μ F 25V
C810	1	1	1	EA47702590	Elect 470 μ F 25V
C811	1	1	1	EB22802560	Elect 220 μ F 25V
C813	1	1	1	EA47702590	Elect 470 μ F 25V
C814	1	1	1	EA10702590	Elect 100 μ F 25V
C815	1	1	1	EA10701690	Elect 100 μ F 16V
C816	1	1	1	EA47701690	Elect 470 μ F 16V
C817	1	1	1	EA47601690	Elect 47 μ F 16V
C818	1	1	1	EA33502590	Elect 3.3 μ F 25V
C819	1	1	1	EA10701090	Elect 100 μ F 10V
C820	1	1	1	DK18103510	Ceramic 0.01 μ F 500V
C821	1	1	1	DK18103510	Ceramic 0.01 μ F 500V
C822	1	1	1	DK18103510	Ceramic 0.01 μ F 500V
P800-RESISTORS (All Resistors are $\pm 5\%$ and $\frac{1}{4}W$)					
R801	1	1		GG05472120	4.7K Ω $\frac{1}{4}W$
R801			1	GG05472120	4.7K Ω
R802	1	1	1	GA05161010	160 Ω 1W
R803	1	1	1	GA05271010	270 Ω 1W
R804	1	1	1	GD05332140	3.3K Ω
R805	1	1	1	GD05473140	47K Ω
R806	1	1	1	GD05473140	47K Ω
R807	1	1	1	GD05331140	330 Ω
R808	1	1	1	GD05102140	1K Ω
R809	1	1	1	GA05151010	150 Ω 1W

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
R810	1	1	1	GG05151140	150 Ω
R811	1	1	1	GG05151140	150 Ω
R812	1	1		GA05033020	3.3 Ω -2W
R812			1	RF05033120	Fusible, 3.3 Ω $\frac{1}{2}W$
R813	1	1	1	GD05472140	4.7K Ω
R814	1	1	1	GD05751140	750 Ω
R815	1	1	1	GD05102140	1K Ω
R816	1	1	1	GD05222140	2.2K Ω
R817	1	1	1	GD05154140	150K Ω
R818	1	1	1	GD05101140	100 Ω
R819	1	1	1	GD05274140	270K Ω
R820	1	1	1	GD05100140	10 Ω
R821	1	1	1	GD05153140	15K Ω
R822	1	1	1	GD05473140	47K Ω
R823	1	1	1	GN10822030	0.82 Ω 3W
R824	1	1	1	GD05100140	10 Ω
P800-SEMICONDUCTORS					
Q801	1	1	1	HD20021100	Diode 2DL15
Q802	1	1	1	HD20014030	Diode DS130YA
Q803	1	1	1	HD20014030	Diode DS130YA
Q804	1	1	1	HD30027090	Zener WZ140
Q805	1	1	1	HT403132A0	Transistor 2SD313(D or E)
Q806	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q807	1	1	1	HT404002D0	Transistor 2SD400(E or F)
Q808	1	1	1	HT205442D0	Transistor 2SB544(E or F)
Q809	1	1	1	HD30052090	Zener WZ056
Q810	1	1	1	HT205442D0	Transistor 2SB544(E or F)
Q811	1	1	1	HD30027090	Zener WZ140
Q812	1	1	1	HD20005010	Diode W06B
Q813	1	1	1	HD20005010	Diode W06B
Q814	1	1	1	HD20011050	Diode 1S1555
Q815	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q816	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q817	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q818	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q819	1	1	1	HD20005010	Diode W06B
P800-MISCELLANEOUS					
F801	1	1		FS10300060	Fuse 3A
F801			1	FS10125800	Fuse 1.25AT 250V
F802	1	1		FS10030020	Fuse 0.3A 250V
F802			1	FS10031800	Fuse 315mA 250V
F803	1	1		FS10010080	Fuse 0.1A 250V
F803			1	FS30500010	Fuse 50mA 250V
F804	1	1		FS10010080	Fuse 0.1A 250V
F804			1	FS30500010	Fuse 50mA 250V
F805	1	1		FS10010080	Fuse 0.1A 250V
F805			1	FS30500010	Fuse 50mA
J801	1	1	1	YP06001310	Plug (6P)
J823			10	YJ08000170	Jack, Fuse Holder
J832					
J823					
J832			10	YJ08000270	Jack, Fuse Holder

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

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
P900	1	1	1	YK22190310	P900-SCOPE AMP.
	1	1	1	ZZ22860310	CIRCUIT BOARD
					P.W. Board, Scope AMP.
					P.W. Board Assembly
C901	1	1	1	DK18103820	P900-CAPACITORS
C902	1	1	1	DK18103820	Ceramic 0.01 μ F 1KV
C903	1	1	1	DF17473520	Ceramic 0.01 μ F 1KV
					Film 0.047 μ F $\pm$ 20% 200V
					P900-RESISTORS
					(All Resistor are $\pm$ 5% and $\frac{1}{4}$ W)
R901	1	1	1	RT05224140	220K Ω
R902	1	1	1	RT05224140	220K Ω
R903	1	1	1	RT05224140	220K Ω
R904	1	1	1	RT05224140	220K Ω
R905	1	1	1	RT05682140	6.8K Ω
R906	1	1	1	RT05682140	6.8K Ω
R907	1	1	1	RT05222140	2.2K Ω
R908	1	1	1	RT05222140	2.2K Ω
R909	1	1	1	RT05103140	10K Ω
R910	1	1	1	RT05103140	10K Ω
R911	1	1	1	RT05103140	10K Ω
R912	1	1	1	RT05103140	10K Ω
R913	1	1	1	RT05683140	68K Ω
R914	1	1	1	RT05683140	68K Ω
R915	1	1	1	RT05623140	62K Ω
R916	1	1	1	RT05623140	62K Ω
R917	1	1	1	RT05823140	82K Ω
R918	1	1	1	RT05204140	200K Ω
R919	1	1	1	RT05105140	1M Ω
R920	1	1	1	RT05105140	1M Ω
R921	1	1	1	RT05224140	220K Ω
R922	1	1	1	RT05155140	1.5M Ω
R923	1	1	1	RT05153140	15K Ω
R924	1	1	1	RT05473140	47K Ω
R925	1	1	1	RA01030250	Trimming, 10K Ω
R926	1	1	1	RA01030250	Trimming, 10K Ω
R927	1	1	1	RA01020150	Trimming, 1K Ω
R928	1	1	1	RA01020150	Trimming, 1K Ω
R929	1	1	1	RT05204140	200K Ω
R930	1	1	1	RT05152140	1.5K Ω
R931	1	1	1	RA01030070	Trimming, 10K Ω
R932	1	1	1	RT05473140	47K Ω
					P900-SEMICONDUCTORS
Q901	1	1	1	HF200304A0	F.E.T. 2SK30A
Q902	1	1	1	HF200304A0	F.E.T. 2SK30A
Q903	1	1	1	HF200304A0	F.E.T. 2SK30A
Q904	1	1	1	HF200304A0	F.E.T. 2SK30A
Q905	1	1	1	HT317562B0	Transistor 2SC1756(D or E)
Q906	1	1	1	HT317562B0	Transistor 2SC1756(D or E)
Q907	1	1	1	HT317562B0	Transistor 2SC1756(D or E)
Q908	1	1	1	HT317562B0	Transistor 2SC1756(D or E)
Q909	1	1	1	HD20003210	Diode 1SC2471
Q910	1	1	1	HD20003210	Diode 1SC2471
Q911	1	1	1	HD20001210	Diode 1SC2473

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
J901	1	1	1	YP06001630	P900-MISCELLANEOUS
J902	1	1	1	YP06001050	Plug (8P)
J903	1	1	1	YP06001050	Plug (5P)
J904	1	1	1	YB00140030	Plug (5P)
J905	1	1	1	YB00180010	Connective Cord.
J906	1	1	1	YB00140030	Connective Cord.
J907	1	1	1	YB00120010	Connective Cord.
J908	1	1	1	YB00140040	Connective Cord.
J909	1	1	1	YB00150010	Connective Cord.
J910	1	1	1	YB00180020	Connective Cord.
J911	1	1	1	YB00200090	Connective Cord.
J912	1	1	1	YB00180030	Connective Cord
J913	1	1	1	YB00210010	Connective Cord
J914	1	1	1	YJ06001310	Jack (6P)
					PC50-PLL. OSC
					CIRCUIT BOARD
PC50	1	1	1	YK22860220	P.W. Board, PLL. OSC
	1	1	1	ZZ22860220	P.W. Board Assembly
					PC50-CAPACITORS
CC51	1	1	1	DK18403320	Ceramic 0.04 μ F +100% -0
CC52	1	1	1	DK18223310	Ceramic 0.022 μ F +100% -0
CC53	1	1	1	DK18223310	Ceramic 0.022 μ F +100% -0
CC54	1	1	1	DK18223310	Ceramic 0.022 μ F +100% -0
CC55	1	1	1	CT15000010	Trimming 50pF
CC56	1	1	1	DK18403320	Ceramic 0.04 μ F +100% -0
CC57	1	1	1	EA47601090	Elect 47 μ F 10V
CC58	1	1	1	EQ22505020	Elect 2.2 μ F 50V
CC59	1	1	1	DF16224050	Film 0.22 μ F $\pm$ 10%
CC61	1	1	1		
					PC50-RESISTORS
					(All Resistors are $\pm$ 5% and $\frac{1}{4}$ W)
RC51	1	1	1	GD05123140	12K Ω
RC52	1	1	1	GD05562140	5.6K Ω
RC53	1	1	1	GD05102140	1K Ω
RC54	1	1	1	GD05224140	220K Ω
RC55	1	1	1	GD05182140	1.8K Ω
RC56	1	1	1	GD05223140	33K Ω
RC57	1	1	1	GD05104140	100K Ω
RC58	1	1	1	GD05222140	2.2K Ω
RC59	1	1	1	GD05223140	22K Ω
RC60	1	1	1	GD05103140	10K Ω
RC61	1	1	1	GD05104140	100K Ω
RC62	1	1	1	GD05223140	22K Ω
RC63	1	1	1	GD05304140	300K Ω
RC64	1	1	1	GD05473140	47K Ω
RC65	1	1	1	GD05332140	3.3K Ω
RC66	1	1	1	GD05104140	100K Ω
RC67	1	1	1	GD05334140	330K Ω
RC68	1	1	1	GD05104140	100K Ω
RC70	1	1	1	GD05391140	390 Ω
RC71	1	1	1	GD05102140	1K Ω
RC72	1	1	1	GD05623140	62K Ω

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

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	C	N		
PC50-SEMICONDUCTORS					
QC51	1	1	1	HT308291C0	Transistor 2SC829(C)
QC52	1	1	1	HT308291C0	Transistor 2SC829(C)
QC53	1	1	1	HC10032010	IC HD7490
QC54	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC55	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC56	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC57	1	1	1	HT402272A0	Transistor 2SD227
QC58	1	1	1	HC10008060	IC μ PD861C
QC59	1	1	1	HT402272A0	Transistor 2SD227
QC61	1	1	1	HD20011050	Diode 1S1555
PC50-MISCELLANEOUS					
LC51	1	1	1	LY20120200	Relay
LC52	1	1	1	LC13320020	Choke Coil 3.3 μ H
LC53	1	1	1	LC13320020	Choke Coil 3.3 μ H
XC51	1	1	1	XA104101L2	Crystal 10.24MHz
PK01-DOLBY SOCKET CIRCUIT BOARD					
PK01	1	1		YA22180310	P.W. Board, Dolby Socket
	1	1		ZZ22180310	P.W. Board Assembly
JK01	8	8		YP10001130	Plug
JK08					
JK09	1	1		YJ07000120	Jack (10P)
SK01	1	1		SC01020240	Micro Switch
SK02	1	1		SC01020240	Micro Switch
PR00-SCOPE SWITCH CIRCUIT BOARD					
PR00	1	1	1	YK22861210	P.W. Board, Scope Switch
	1	1	1	ZZ22861210	P.W. Board Assembly
PR00-CAPACITORS					
CR01	1	1	1	DF17473050	Film 0.047 μ F $\pm$ 20%
CR02	1	1	1	EV22403560	Elect 0.22 μ F 35V
CR03	1	1	1	EV22403560	Elect 0.22 μ F 35V
CR04	1	1	1	EE47405040	Elect 0.47 μ F 50V
CR05	1	1	1	EA47503590	Elect 4.7 μ F 35V
PR00-RESISTORS (All Resistors are $\pm$ 5% and $\frac{1}{4}$ W)					
RR01	1	1	1	GD05221140	220 Ω
RR02	1	1	1	GA05181010	180 Ω 1W
RR03	1	1	1	GD05473140	47K Ω
RR04	1	1	1	GD05473140	47K Ω
RR05	1	1	1	GD05394140	390K Ω
RR06	1	1	1	GD05153140	15K Ω
RR07	1	1	1	GD05473140	47K Ω
RR08	1	1	1	GD05473140	47K Ω
RR09	1	1	1	GD05473140	47K Ω
RR10	1	1	1	GD05153140	15K Ω
RR11	1	1	1	GD05103140	10K Ω
RR12	1	1	1	GD05304140	300K Ω
RR13	1	1	1	GD05473140	47K Ω
PR00-MISCELLANEOUS					
JR01	1	1	1	YJ06001330	Jack (8P)
SR01	1	1	1	SP04050192	Push Switch, Scope

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION		
	U	C	N				
PS00	1	1	1	YK22860410	PS00-AM/FM/WIDE SWITCH CIRCUIT BOARD		
	1	1	1	ZZ22860410	P.W. Board, AM/FM/Wide Switch P.W. Board Assembly		
CS01	1	1	1	EA10601690	PS00-CAPACITOR		
					Elect	10μF	16V
RS01	1	1	1	GD05154140	PS00-RESISTORS		
RS02	1	1	1	GD05682140	150KΩ	±5%	¼W
					6.8KΩ	±5%	¼W
QS01	1	1	1	HD10003020	PS00-SEMICONDUCTORS		
	1	1	1	HD10003020	Diode	20A90	
	1	1	1	HD10003020	Diode	20A90	
SS01	1	1	1	SP08030070	PS00-SWITCH		
					Push Switch, Function		
PT00	1	1	1	YG22860040	PT00-MODE SWITCH CIRCUIT BOARD		
	1	1		ZZ22860040	P.W. Board, Mode Switch		
			1	ZZ22868040	P.W. Board Assembly P.W. Board Assembly		
CT01	1	1	1	EA10601690	PT00-CAPACITORS		
	1	1	1	EA10601690	Elect	10μF	16V
	1	1	1	EA10701690	Elect	10μF	16V
	1	1	1	EA10701690	Elect	100μF	16V
	1	1	1	EA10701690	Elect	100μF	16V
	1	1	1	EV22403560	Elect	0.22μF	35V
	1	1	1	EV22403560	Elect	0.22μF	35V
	1	1	1	EA10601690	Elect	10μF	16V
	1	1	1	EA10601690	Elect	10μF	16V
	1	1	1	EA10601690	Elect	10μF	16V
CT11	1	1	1	EA47503590	Elect	4.7μF	35V
	1	1	1	EA10601690	Elect	10μF	16V
	1	1	1	DF15153300	Film	0.015μF	±5%
	1	1	1	DF15153300	Film	0.015μF	±5%
	1	1	1	DF15153300	Film	0.015μF	±5%
	1	1	1	DK16471300	Ceramic	470pF	±10%
	1	1	1	DF65501010	Film	500pF	±5%
	1	1	1	DK18223310	Ceramic	0.022μF	+100% -O
	1	1	1	DF15472300	Film	0.0047μF	±5%
	1	1	1	DD15330370	Ceramic	33pF	±5%
CT22	1	1	1	DK18223310	Ceramic	0.022μF	+100% -O
	1	1	1	DK18223310	Ceramic	0.022μF	+100% -O
	1	1	1	DK18223310	Ceramic	0.022μF	+100% -O
	1	1	1	DK18403320	Ceramic	0.04μF	+100% -O
	1	1	1	DF16153300	Film	0.015μF	±10%
	1	1	1	EA10701690	Elect	100μF	16V
	1	1	1	EA10601690	Elect	10μF	16V
	1	1	1	EA10505090	Elect	1μF	50V
	1	1	1	DK18403320	Ceramic	0.04μF	+100% -O

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

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
PT00-RESISTORS (All Resistors are $\pm 5\%$ and $\frac{1}{4}W$)					
RT01	1	1	1	GD05105140	1M Ω
RT02	1	1	1	GD05105140	1M Ω
RT03	1	1	1	GD05104140	100K Ω
RT04	1	1	1	GD05104140	100K Ω
RT05	1	1	1	GD05822140	8.2K Ω
RT06	1	1	1	GD05822140	8.2K Ω
RT07	1	1	1	GD05103140	10K Ω
RT08	1	1	1	GD05103140	10K Ω
RT09	1	1		RA02230070	Trimming, 20K Ω
RT10	1	1		RA02230070	Trimming, 20K Ω
RT11	1	1	1	GD05334140	330K Ω
RT12	1	1	1	GD05334140	330K Ω
RT13	1	1	1	GD05102140	1K Ω
RT14	1	1	1	GD05102140	1K Ω
RT15	1	1	1	GD05472140	4.7K Ω
RT16	1	1	1	GD05472140	4.7K Ω
RT17	1	1	1	GD05104140	100K Ω
RT18	1	1	1	GD05104140	100K Ω
RT19	1	1	1	GD05473140	47K Ω
RT20	1	1	1	GD05473140	47K Ω
RT21	1	1	1	GD05102140	1K Ω
RT22	1	1	1	GD05102140	1K Ω
RT24	1	1	1	GD05101140	100 Ω
RT25	1	1	1	GG05271140	270 Ω
RT26	1	1	1	GG05101140	100 Ω
RT27	1	1	1	GG05101140	100 Ω
RT30	1	1	1	GD05153140	15K Ω
RT31	1	1	1	GD05153140	15K Ω
RT32	1	1	1	GD05563140	56K Ω
RT33	1	1	1	GD05153140	15K Ω
RT34	1	1	1	GD05222140	2.2K Ω
RT35	1	1	1	GD05152140	1.5K Ω
RT36	1	1	1	GD05103140	10K Ω
RT37	1	1	1	RA04730070	Trimming, 47K Ω (B)
RT38	1	1	1	GD05153140	15K Ω
RT39	1	1	1	GD05222140	2.2K Ω
RT40	1	1	1	GD05102140	1K Ω
RT41	1	1	1	GD05333140	33K Ω
RT42	1	1	1	GD05472140	4.7K Ω
RT43	1	1	1	GD05102140	1K Ω
RT45	1	1	1	GD05102140	1K Ω
RT46	1	1	1	RA04730070	Trimming
RT47	1	1	1	GD05564140	560K Ω
RT48	1	1	1	GD05101140	100 Ω
RT50	1	1	1	GD05221140	220 Ω
RT53	1	1	1	GD05333140	33K Ω
RT54	1	1	1	GD05223140	22K Ω
RT55	1	1	1	GD05223140	22K Ω
RT56	1	1	1	GG05101140	100 Ω
RT58	1	1	1	GD05154140	150K Ω
RT59	1	1	1	GD05221140	220 Ω
RT60	1	1	1	GD05104140	100K Ω
RT61	1	1	1	GD05473140	47K Ω
RT62	1	1	1	GD05473140	47K Ω

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION		
	U	C	N				
PT00-SEMICONDUCTORS							
QT01	1	1	1	HC10003090	IC	NJM4558D	
QT02	1	1	1	HT313272A0	Transistor	2SC1327(S or T)	
QT03	1	1	1	HT313272A0	Transistor	2SC1327(S or T)	
QT04	1	1	1	HT312222A0	Transistor	2SC1222(F or E)	
QT05	1	1	1	HT309452A0	Transistor	2SC945(P or Q)	
QT06	1	1	1	HT308291C0	Transistor	2SC829(C)	
QT07	1	1	1	HT308291C0	Transistor	2SC829(C)	
QT08	1	1	1	HT309452A0	Transistor	2SC945(P or Q)	
QT09	1	1	1	HT309452A0	Transistor	2SC945(P or Q)	
QT11	1	1	1	HT107332A0	Transistor	2SA733(P or Q)	
QT12	1	1	1	HT309452A0	Transistor	2SC945(P or Q)	
QT13	1	1	1	HD10003020	Diode	20A90	
QT14	1	1	1	HD10003020	Diode	20A90	
QT15	1	1	1	HD20011050	Diode	1S1555	
QT16	1	1	1	HD10003020	Diode	20A90	
QT17	1	1	1	HD10003020	Diode	20A90	
QT18	1	1	1	HD20011050	Diode	1S1555	
PT00-MISCELLANEOUS							
LT01	1	1	1	YL20120200	Relay		
LT02	1	1	1	LO71010070	OSC Coil		
ST01	1	1		SP08050060	Push Switch, Mode		
ST01			1	SP06040052	Push Switch, Mode		
PY00-LED CIRCUIT BOARD							
PY00	1	1	1	YK22861220	P.W. Board, LED		
	1	1	1	ZZ22861220	P.W. Board Assembly		
PY00-RESISTORS							
RY01	1	1	1	GD05681140	680Ω	±5%	¼W
RY02	1	1	1	GD05681140	680Ω	±5%	¼W
RY03	1	1	1	GD05681140	680Ω	±5%	¼W
PY00-SEMICONDUCTORS							
QY01	1	1	1	HI10004030	L.E.D.		
QY02	1	1	1	HI10004030	L.E.D.		
QY03	1	1	1	HI10004030	L.E.D.		
PZ01-DIAL ILLUMINATOR CIRCUIT BOARD							
PZ01	1	1	1	YF22860020	P.W. Board, Dial Illuminator		
	1	1	1	ZZ22861020	P.W. Board Assembly		
JZ03							
?	12	12	12	YJ08000170	Jack		
JZ14							
VZ01							
?	6	6	6	IN10080070	Dial Lamp	0.2A	8V
VZ06							

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

9. TECHNICAL SPECIFICATIONS

[FOR U.S.A. & CANADIAN MODELS ONLY]

FM TUNER SECTION

Sensitivity	
IHF Usable	8.75 dBf (1.5 μ V)
IHF 50 dB Quieting (Mono)	12.1 dBf (2.2 μ V)
(Stereo)	33.2 dBf (25 μ V)
Quieting Slope (Mono)	
RF Input for 30 dB Quieting	6.8 dBf (1.2 μ V)
Quieting at:	
20 dBf (5.5 μ V)	60 dB
25 dBf (10 μ V)	66 dB
40 dBf (55 μ V)	78 dB
65 dBf (1000 μ V)	83 dB
Quieting Slope (Stereo)	
Quieting at:	
30 dBf (17 μ V)	49 dB
40 dBf (55 μ V)	62 dB
50 dBf (173 μ V)	70 dB
65 dBf (1000 μ V)	76 dB
Distortion (Mono) at 65 dBf (1000 μ V)	
100 Hz	NARROW: 0.07%, WIDE: 0.05%
1000 Hz	NARROW: 0.07%, WIDE: 0.05%
6000 Hz	NARROW: 0.13%, WIDE: 0.10%
Distortion (Stereo) at 65 dBf (1000 μ V)	
100 Hz	NARROW: 0.20%, WIDE: 0.09%
1000 Hz	NARROW: 0.15%, WIDE: 0.07%
6000 Hz	NARROW: 0.30%, WIDE: 0.20%
Distortion (Mono and Stereo)	
at 50 dB Quieting, 1000 Hz	0.4%
Hum and Noise	
at 65 dBf (1000 μ V)	
Mono	80 dB
Frequency Response	
30 Hz to 15 kHz	
Mono	+0.2, -1.0 dB
Stereo	+0.2, -1.0 dB
Capture Ratio	
at 65 dBf (1000 μ V)	NARROW: 1.5 dB, WIDE: 0.8 dB
Alternate Channel Selectivity	NARROW: 85 dB, WIDE: 45 dB
Spurious Response Rejection	120 dB
Image Response Rejection	120 dB
I.F. Rejection (Balanced)	120 dB
A.M. Suppression	65 dB
Stereo Separation	
100 Hz	NARROW: 45 dB, WIDE: 45 dB
1000 Hz	NARROW: 50 dB, WIDE: 55 dB
10 kHz	NARROW: 42 dB, WIDE: 45 dB
Subcarrier Rejection	75 dB

AM TUNER SECTION

IHF Usable Sensitivity	10 μ V
Distortion (THD), 30% Modulation	0.4%
Signal-to-Noise Ratio	55 dB
Alternate Channel Selectivity	50 dB
Image Rejection	80 dB
Spurious Response Rejection	90 dB
I.F. Rejection	80 dB

GENERAL

Power Requirements	120 V AC, 60 Hz
Power Consumption	30 W
Dimensions:	
Panel Width	416 mm (16-3/8 inches)
Panel Height	146 mm (5-3/4 inches)
Depth	301 mm (11-7/8 inches)
Weight:	
Unit alone	9 kg (19.8 lbs)
Packed for shipment	11 kg (24.2 lbs)

[FOR EUROPEAN MODEL ONLY]

FM TUNER SECTION

Frequency Range	87.4–109 MHz
Usable Sensitivity 40 kHz Deviation, 98 MHz	
Mono, S/N 26 dB	1.1 μ V
Stereo, S/N 46 dB	32 μ V
Alternate Channel Selectivity, 98 MHz $\pm$ 300 kHz	80 dB (NARROW)/50 dB (WIDE)
Image Response Rejection, 98 MHz	125 dB
IF Rejection, 98 MHz	125 dB
Spurious Response Rejection, 98 MHz	125 dB
AM Suppression, 98 MHz	66 dB
Signal-to-Noise Ratio, 98 MHz	
Unweighted: Mono	78 dB
Stereo	69 dB
Weighted: Mono	80 dB
Stereo	72 dB
Pilot Signal & Subcarrier Rejection	
19 kHz	70 dB
38 kHz	75 dB
Total Harmonic Distortion, 98 MHz	
Mono	0.07% (NARROW)/0.05% (WIDE)
Stereo	0.15% (NARROW)/0.07% (WIDE)
Frequency Response	
30 Hz–15 kHz	+0.2, –1.0 dB
Separation	
Stereo	50 dB (NARROW)/55 dB (WIDE)
Channel Balance	0.3 dB
Output Voltage, 1 kHz	700 mV
Output Impedance, 1 kHz	1.0 kohms
Antenna Terminals	
Balanced	300 ohms
Unbalanced	75 ohms

AM TUNER SECTION

Frequency Range	515–1650 kHz
Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz)	15 μ V
Selectivity, 1 MHz $\pm$ 9 kHz	26 dB
Image Rejection, 1 MHz	80 dB
IF Rejection, 1 MHz	80 dB
Spurious Response Rejection, 1 MHz	60 dB
Signal-to-Noise Ratio, 1 MHz	50 dB
Frequency Response, 1 MHz $\pm$ 3 dB	40 Hz – 2.2 kHz
Total Harmonic Distortion, 1 MHz	0.4%

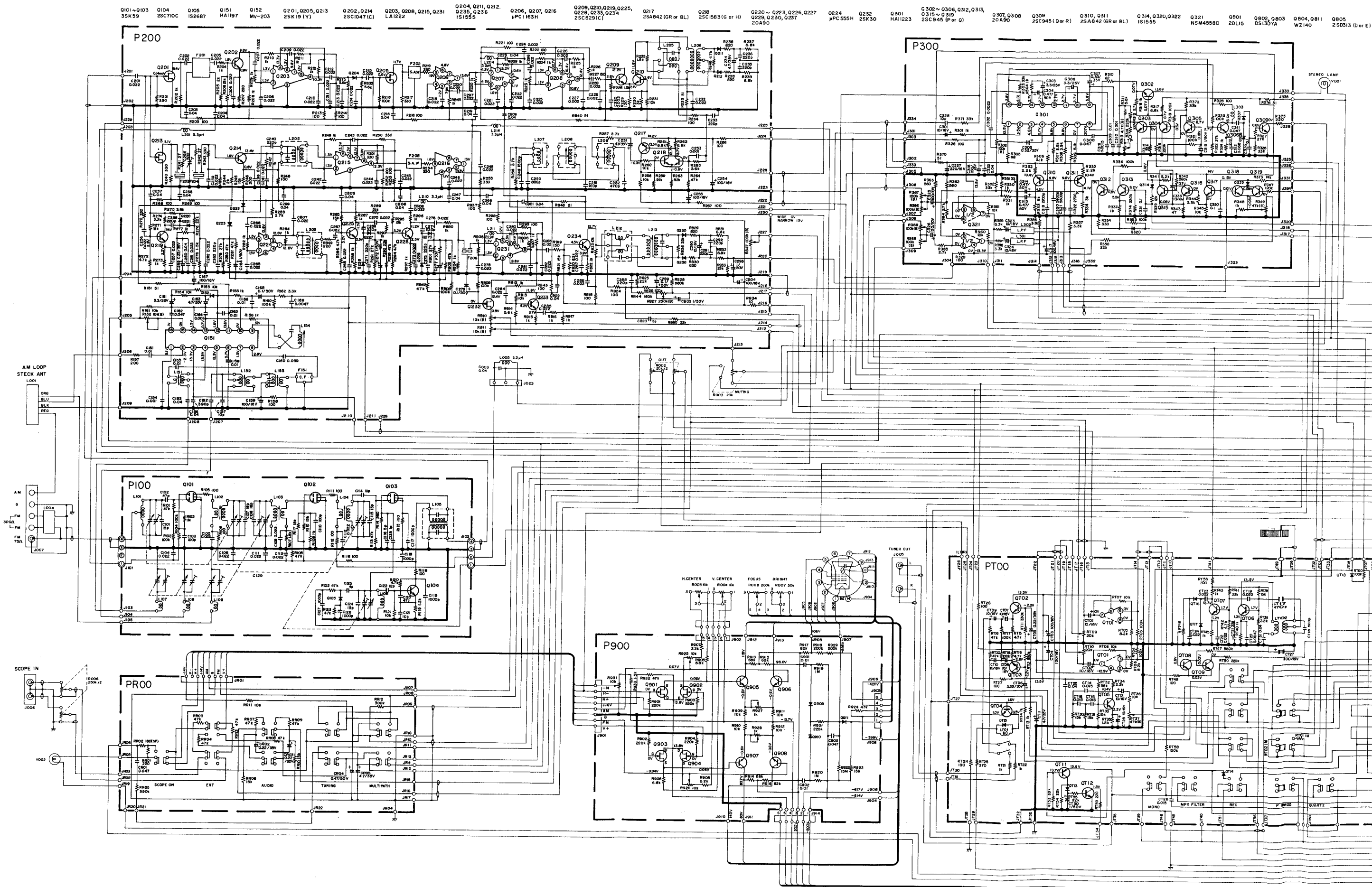
GENERAL

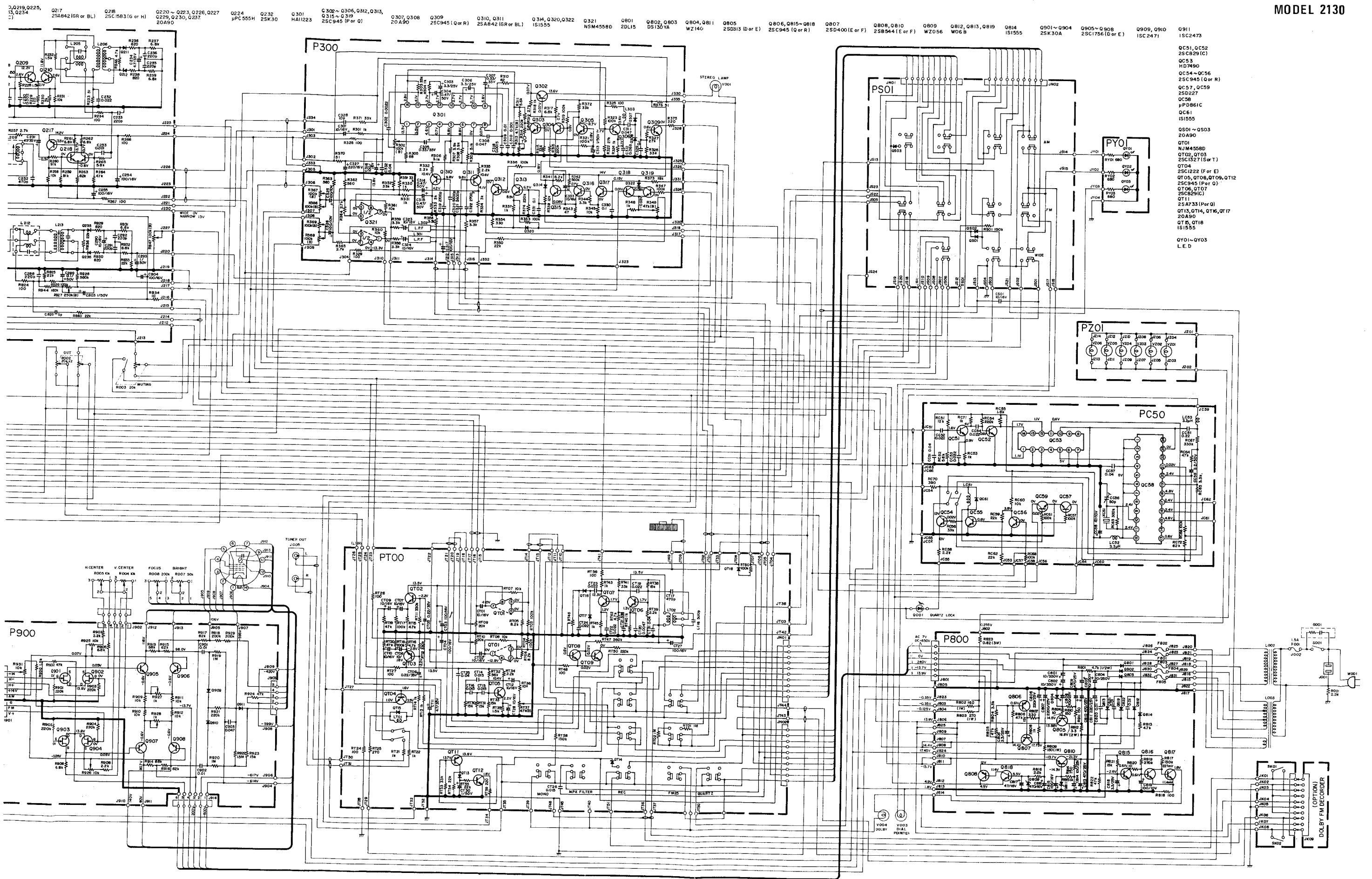
Power Requirements	220 V AC, 50 Hz
(E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other versions can be converted by a qualified technician to operate on 110/120/240 V.)	
Power Consumption	30 W
Semiconductor Complement	
Integrated Circuits	14
Transistors	57
Diodes	44
Field Effect Transistors	11
Dimensions	
Panel Width	16-3/8" (416 mm)
Panel Height	5-3/4" (146 mm)
Depth	11-55/64" (301 mm)
Weight	
Unit alone	19.8 lbs (9.0 kg)
Packed for shipment	24.2 lbs (11.0 kg)

marantz

NOTE

10. SCHEMATIC DIAGRAMS SCHEMATIC DIAGRAM - U.S.A. & CANADA





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