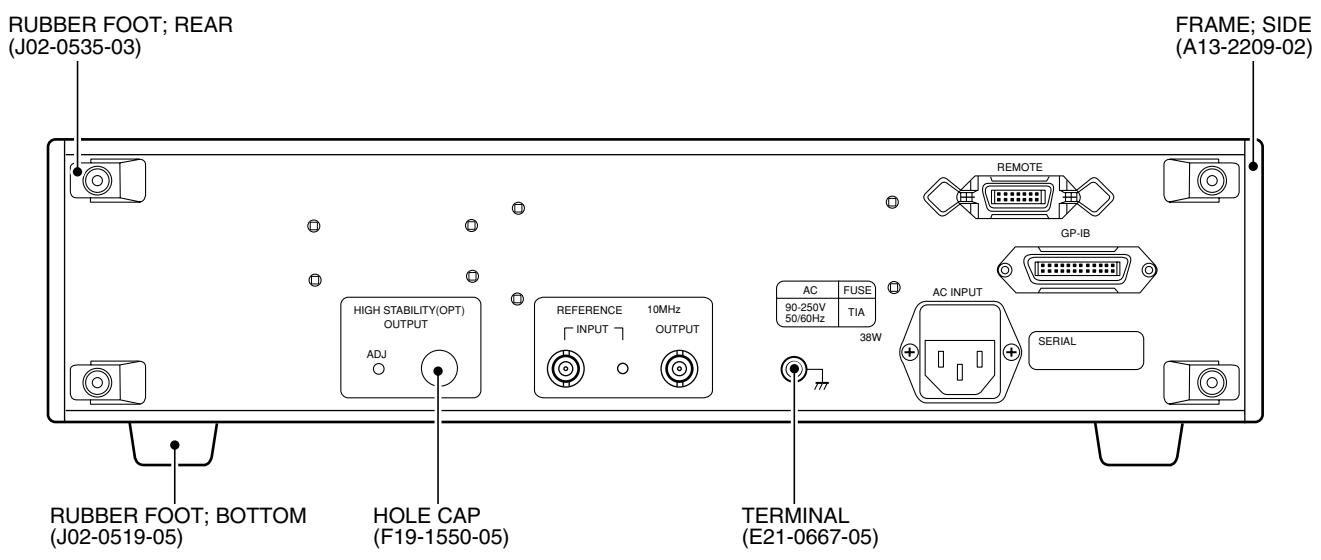
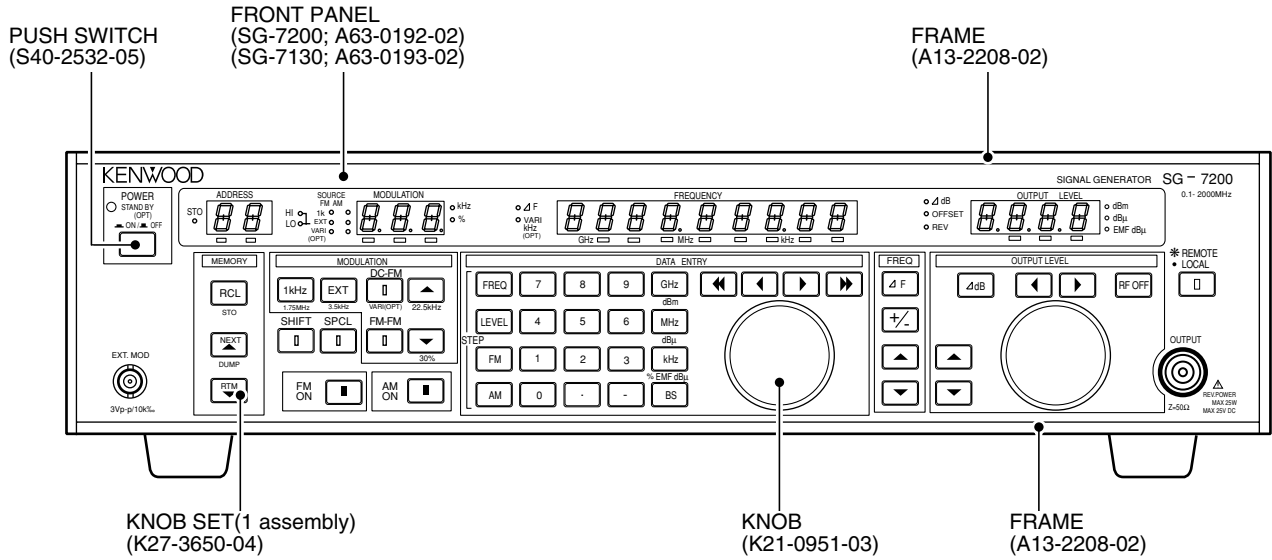


SG-7200/SG-7130

SERVICE MANUAL



SG-7200/SG-7130

WARNING

The following instructions are for use by qualified personnel only. To avoid electric shock, do not perform any servicing other than contained in the operating instructions unless you are qualified to do so.

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SG-7200/SG-7130

SPECIFICATIONS

The following sections mainly describe the operations and functions and functions of the SG-7200.

The operations, functions, etc. of the SG-7130 are enclosed in braces, [].

ITEMS	SG-7200	SG-7130						
FREQUENCY								
Frequency								
Range	100 kHz to 2 GHz	100 kHz to 1.3 GHz						
Resolution	10 Hz at $f_c \leq 1.02$ GHz 20 Hz at $f_c > 1.02$ GHz (fc: Carriage frequency)							
Accuracy	Same as the reference signal oscillator accuracy							
Display	Digital 9-digit display							
Switching speed	50 ms or less (standard), 150 ms maximum							
Reference signal oscillator								
Frequency	50 MHz							
Stability	Thermal stability: $\pm 5 \times 10^{-6}$ (5 to 35°C) Aging rate: $\pm 2 \times 10^{-6}$ /week							
External reference signal input								
Frequency	10 MHz \pm 200 Hz							
Level	0.15 Vrms or more (50 Ω termination)							
Maximum allowable input level	5 V (DC + AC peak)							
External reference signal output								
Frequency	10 MHz							
Level	0.15 Vrms or more (50 Ω termination)							
OUTPUT LEVEL								
Set ranges	- 133 to +13 dBm - 26 to +120 dB μ - 20 to +126EMF dB μ (The maximum output level in AM modulation is 6 dB lower than the above values.)							
Unit	dBm (0 dBm = 1 mW, 50 Ω termination) dB μ (0 dB μ = 1 μ V, 50 Ω termination) EMF dB μ (EMF 0 dB μ = 1 μ V, open ended)							
Resolution	0.1 dB							
Display	Digital 4-digit display							
Frequency response	± 1 dB at $f_c \leq 1.02$ GHz ± 1.5 dB at $f_c > 1.02$ GHz (At the output level of 0 dBm)							
Output level accuracy	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">$100 \text{ kHz} \leq f_c \leq 130 \text{ MHz}$</td> <td style="width: 70%;"> ± 1 dB (≥ -10 dBm) ± 1.5 dB (≥ -120 dBm) ± 2 dB (≥ -127 dBm) </td> </tr> <tr> <td>$130 \text{ MHz} < f_c \leq 1.02 \text{ GHz}$</td> <td> ± 1 dB (≥ -10 dBm) ± 1.5 dB (≥ -120 dBm) ± 2 dB (≥ -123 dBm) </td> </tr> <tr> <td>$f_c > 1.02 \text{ GHz}$</td> <td> ± 1.5 dB (≥ -93 dBm) ± 2 dB (≥ -103 dBm) ± 3 dB (≥ -110 dBm) </td> </tr> </table>		$100 \text{ kHz} \leq f_c \leq 130 \text{ MHz}$	± 1 dB (≥ -10 dBm) ± 1.5 dB (≥ -120 dBm) ± 2 dB (≥ -127 dBm)	$130 \text{ MHz} < f_c \leq 1.02 \text{ GHz}$	± 1 dB (≥ -10 dBm) ± 1.5 dB (≥ -120 dBm) ± 2 dB (≥ -123 dBm)	$f_c > 1.02 \text{ GHz}$	± 1.5 dB (≥ -93 dBm) ± 2 dB (≥ -103 dBm) ± 3 dB (≥ -110 dBm)
$100 \text{ kHz} \leq f_c \leq 130 \text{ MHz}$	± 1 dB (≥ -10 dBm) ± 1.5 dB (≥ -120 dBm) ± 2 dB (≥ -127 dBm)							
$130 \text{ MHz} < f_c \leq 1.02 \text{ GHz}$	± 1 dB (≥ -10 dBm) ± 1.5 dB (≥ -120 dBm) ± 2 dB (≥ -123 dBm)							
$f_c > 1.02 \text{ GHz}$	± 1.5 dB (≥ -93 dBm) ± 2 dB (≥ -103 dBm) ± 3 dB (≥ -110 dBm)							
Output impedance	50 Ω (N connector)							

SG-7200/SG-7130

SPECIFICATIONS

ITEMS	SG-7200	SG-7130
VSWR	1.3 or less at $f_c \leq 1$ GHz 1.8 or less at $f_c > 1$ GHz (At the output level of -13 dBm)	
Protection against reverse power	25 W maximum, 25 VDC	
SIGNAL PURITY		
Spurious output (At the output level of 0 dBm, fundamental wave level = 0 dBc)		
Higher harmonics	-30 dBc or less	
Sub-harmonics	-50 dBc or less (1.02 GHz $\leq f_c \leq 1.7$ GHz [1.3 GHz]) -40 dBc or less ($f_c > 1.7$ GHz)	
Non-harmonics	In the CW mode at the output level of 0 dBm at a point ± 5 kHz apart from the carrier frequency. -60 dBc or less (Bandwidth: ≤ 500 MHz, 100 kHz $\leq f_c \leq 130$ MHz) -40 dBc or less (Bandwidth: > 500 MHz, 100 kHz $\leq f_c \leq 130$ MHz) -60 dBc or less (130 MHz $< f_c \leq 1.02$ GHz) -54 dBc or less ($f_c > 1.02$ GHz)	
SSB phase noise	-120 dBc / Hz or less (100 kHz $\leq f_c \leq 130$ MHz) -130 dBc / Hz or less (130 MHz $< f_c \leq 255$ MHz) -125 dBc / Hz or less (255 MHz $< f_c \leq 510$ MHz) -120 dBc / Hz or less (510 MHz $< f_c \leq 1.02$ GHz) -115 dBc / Hz or less (1.02 GHz $< f_c \leq 2$ GHz [1.3 GHz])	
Residual modulation noises (S/N ratio)		
Residual FM noises	Demodulation bandwidth: 0.3 to 3 kHz, 3.5 kHz deviation 12 Hz (49 dB) or less (100 kHz $\leq f_c \leq 130$ MHz) 3 Hz (61 dB) or less (130 MHz $< f_c \leq 255$ MHz) 6 Hz (55 dB) or less (255 MHz $< f_c \leq 510$ MHz) 12 Hz (55 dB) or less (510 MHz $< f_c \leq 1.02$ GHz) 24 Hz (43 dB) or less (1.02 GHz $< f_c \leq 2$ GHz [1.3 GHz]) (In units of rms, relative dB values with respect to 3.5 kHz deviation) Demodulation bandwidth: 50 Hz to 15 kHz, 75 kHz deviation 16 Hz (73 dB) or less (100 kHz $\leq f_c \leq 130$ MHz) (50 μ s de-emphasis ON, relative dB value with respect to 75 kHz deviation)	
Residual AM noises	0.03 % (60 dB) or less (In the CW mode, demodulation bandwidth: 50 Hz to 15 kHz, at 30 % modulation, relative dB value with respect to 30 % modulation)	
Modulation		
Internal modulation frequency	1 kHz ± 3 % 400Hz ± 3 % (1 kHz and 400 Hz selectable)	
External modulation input		
Input impedance	Approx. 10 k Ω (Unbalanced)	
Input voltage	2 V _{peak to peak} (around 0 V)	
Maximum allowable voltage	15 V (DC + AC peak)	
FM modulation (AC-FM)		
Display	Digital 3-digit display	
Frequency deviation setting range and resolution	As shown below.	

SG-7200/SG-7130

SPECIFICATIONS

ITEMS	SG-7200	SG-7130		
Table 5-1				
fc	Range			
100 kHz \leq fc \leq 127.5 MHz	Frequency deviation	0 to 9.99 kHz	10 to 99.9 kHz	100 to 250 kHz
	Resolution	10 Hz	100 Hz	1 kHz
127.5 MHz \leq fc \leq 260 MHz	Frequency deviation	0 to 9.99 kHz	10 to 60 kHz	
	Resolution	10 Hz	100 Hz	
260 MHz \leq fc \leq 520 MHz	Frequency deviation	0 to 9.99 kHz	10 to 99.9 kHz	100 to 250 kHz
	Resolution	10 Hz	100 Hz	1 kHz
520 MHz \leq fc \leq 1.04 GHz	Frequency deviation	0 to 9.99 kHz	10 to 99.9 kHz	100 to 250 kHz
	Resolution	10 Hz	100 Hz	1 kHz
1.04GHz \leq fc \leq 2GHz[1.3GHz]	Frequency deviation	0 to 4.99 kHz	5 to 49.9 kHz	50 to 500 kHz
	Resolution	10 Hz	100 Hz	1 kHz
FM modulation (AC-FM)				
Accuracy	$\pm 5\%$ of the maximum frequency deviation in each range (Residual FM noise level at the modulation frequency of 1 kHz is excluded. The specification is guaranteed up to the maximum frequency deviation of 400 kHz of the maximum frequency deviation of fc x 10 % at fc \leq 2.5 MHz.)			
External modulation frequency response	± 1 dB			
Modulation distortion	0.5 % or less			
Incidental AM	0.5 % or less			
DC-FM modulation (FM deviation less than 10 kHz)				
Frequency accuracy	\pm (reference oscillator frequency + 500 Hz) (100 kHz \leq fc \leq 130 MHz) \pm (reference oscillator frequency + 125 Hz) (130 MHz < fc \leq 255 MHz) \pm (reference oscillator frequency + 250 Hz) (255 MHz < fc \leq 510 MHz) \pm (reference oscillator frequency + 500 Hz) (510 MHz < fc \leq 1.02 GHz) \pm (reference oscillator frequency + 1 kHz) (1.02 GHz < fc \leq 2 GHz [1.3 GHz])			
Stability	100 Hz/hr. or less (Excluding reference oscillator variance)			
External modulation frequency response	± 1 dB			
External modulation frequency response	External modulation frequency: DC to 70 kHz, on 1 kHz basis, 22.5 kHz deviation			

SG-7200/SG-7130

SPECIFICATIONS

ITEMS	SG-7200	SG-7130
AM modulation		
Setting range	0 to 99.9 %	
Modulation level guarantee range	0 to 80 % At the output level of + 7 dBm or less	
Resolution	0.1 %	
Display	Digital 3-digit display	
Accuracy	Displayed value ± 5 % (modulation level) Modulation level: ≤ 80 %, modulation frequency: 1 kHz	
External modulation frequency response	± 1 dB External modulation frequency: 50 Hz to 10 kHz, on 1 kHz basis 30 % modulation	
Modulation distortion	1.5 % or less ($f_c \leq 1.02$ GHz) 2.5 % or less ($f_c > 1.02$ GHz) Demodulation bandwidth: 50 Hz to 15 kHz, modulation frequency: 1 kHz, 30 % modulation	
Incidental FM	200 Hz peak or less ($f_c \leq 1.02$ GHz) 400 Hz peak or less ($f_c > 1.02$ GHz) Demodulation bandwidth: 0.3 to 3 kHz, modulation frequency: 1 kHz, 30 % modulation, output level: + 7 dBm or less	
Functions		
Simultaneous modulation	Simultaneous FM-AM Simultaneous FM-FM	
± 2 % Hi-Lo monitoring function of external modulation input signal		
Continuous output level variation	Varying the output level by ± 5 dB from any point in 0.1 dB steps without changing the main attenuator. (Not applicable to AM modulation)	
RF ON/OFF	Turning on and off the RF output with the RF OFF key.	
Special functions	Memory protection, internal modulation frequency switching, FM-FM modulation presetting, frequency offset mode, initialization of the special functions, etc.	
Setting	10-key pad, setting with the rotary knob (cursor position), and various settings with the step and preset keys.	
Memory	100 points (frequency, output level, modulation level, modulation type, etc.) 10 points x 10, or continuous 100 points Backup functions is provided	
Memory dumping	Transferring stored 100-point data to another SG-7200 or SG-7130(same type)	
Remote control	Same controls as available on the front panel, except turning on and off the power.	
GP-IB interface	SH1, AH1, T3, L4, SR0, RL1, PP0, DC1, DT0, and C0	
Environmental Conditions		
Maximum operating temperature range	0 to 40 °C, 90 % or less	
Specification guarantee range	5 to 35 °C, 85 % or less	
Leak shield	Signal leakage level is 1 μ V or less when measured on 50 Ω termination voltage with a 25 mm diameter, double-turn loop antenna at a point 25 mm apart from the front panel.	
General Specifications		
Source voltage	90 to 250 VAC, 50/60 Hz	
Power consumption	Approx. 38 W	
Dimensions	426 (W) x 99 (H) x 400 (D) mm (Frame) 431 (W) x 115 (H) x 456 (D) mm (maximum)	
Weight	Approx. 11 kg	

SG-7200/SG-7130

SAFETY

SAFETY

Before connecting the instrument to a power source, carefully read the following information, then verify that the proper power cord is used and the proper line fuse is installed for power source. The specified voltage is shown on the rear panel. If the power cord is not applied for specified voltage, there is always a certain amount of danger from electric shock.

Line voltage

This instrument operates using ac-power input voltages that 100/120/220/230 V at frequencies from 50 Hz to 60Hz.

Power cord

The ground wire of the 3-wire ac power plug places the chassis and housing of the oscilloscope at earth ground. Do not attempt to defeat the ground wire connection or float the oscilloscope ; to do so may pose a great safety hazard. The appropriate power cord is supplied by an option that is specified when the instrument is ordered. The optional power cords are shown as follows in Fig.1

Line fuse

The fuse holder is located on the rear panel and contains the line fuse. Verify that the proper fuse is installed by replacing the line fuse.

Voltage conversion

This oscilloscope may be operated from either a 100V to 230V, 50/60 Hz power source. Use the following procedure to change from 100 to 230 volt operation or vice versa.

1. Remove the fuse holder.
2. Replace fuse F1 with a fuse of appropriate value, 1 amp for 100 VAC to 120 VAC operation. 630 m amp for 220 VAC to 230 VAC operation.
3. Reinsert it for appropriate voltage range.
4. When performing the reinsertion of fuse holder for the voltage conversion, the appropriate power cord should be used. (See Fig. 1.)

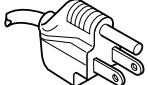
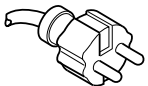

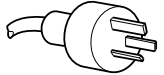
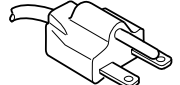

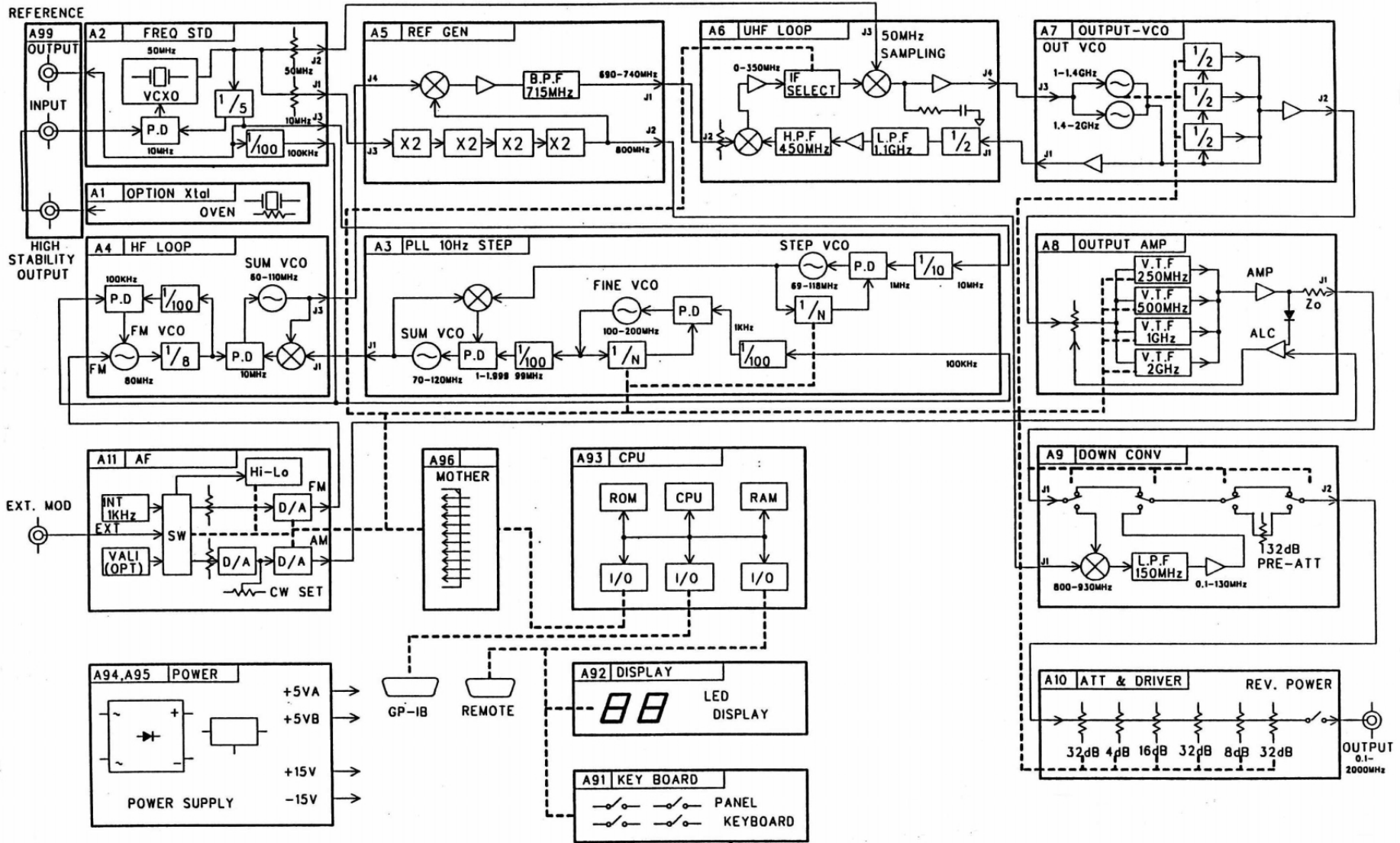
Plug configuration	power cord and plug type	Factory installed instrument fuse	Line cord plug fuse	Parts No. for power cord
	North American 120 volt/60 Hz Rated 15 amp (12 amp max ; NEC)	0.7A, 250V slow blow 5x20mm	None	E30-1951-05
	Universal Europe 220 volt/50 Hz Rated 16 amp	0.3A, 250V slow blow 5x20 mm	None	E30-1952-05
	U.K. 240 volt/50 Hz Rated 5 amp	0.3A, 250V slow blow 5x20 mm	5A Type C	E30-1929-05
	Australian 240 volt/50 Hz Rated 10 amp	0.3A, 250V slow blow 5x20 mm	None	E30-1953-05
	North American 240 volt/60 Hz Rated 15 amp (12 amp max ; NEC)	0.3A, 250V slow blow 5x20mm	None	-
	Switzerland 230 volt/50Hz Rated 10 amp	0.3A, 250V slow blow 5x20 mm	None	-

Fig.1 Power Input Voltage Configuration



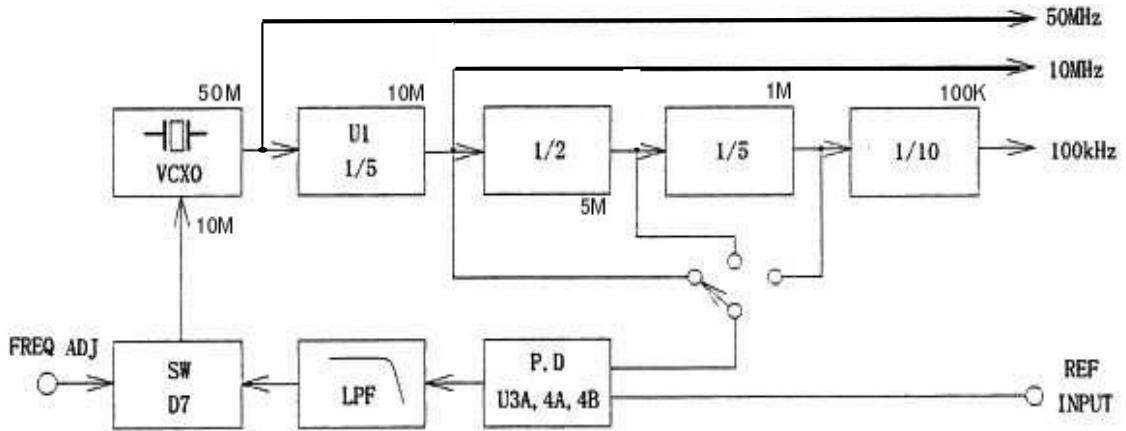
BLOCK DIAGRAM

SG-7200/SG-7130

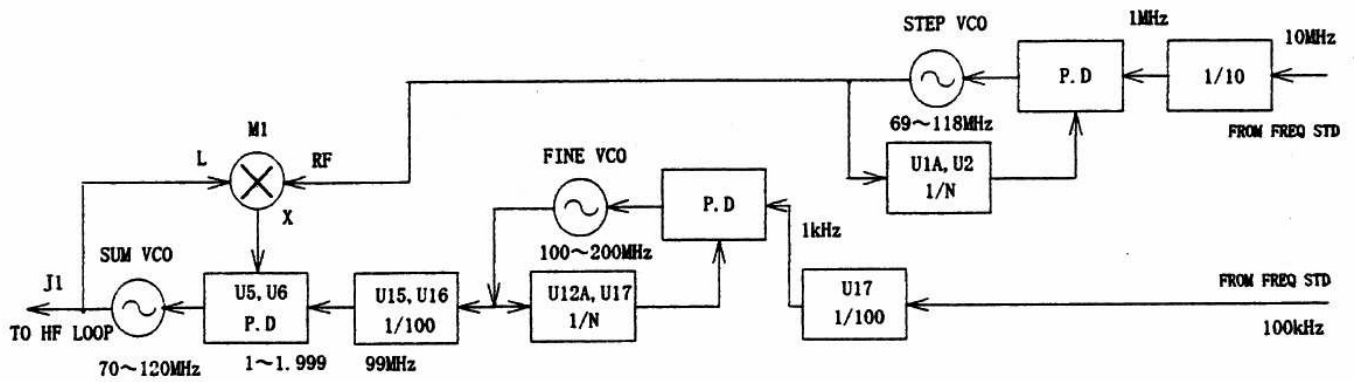
SG-7200/SG-7130

BLOCK DIAGRAM

GENERATOR UNIT (X71-1250-00)



SIGNAL PROCESSOR UNIT (X79-1260-00)

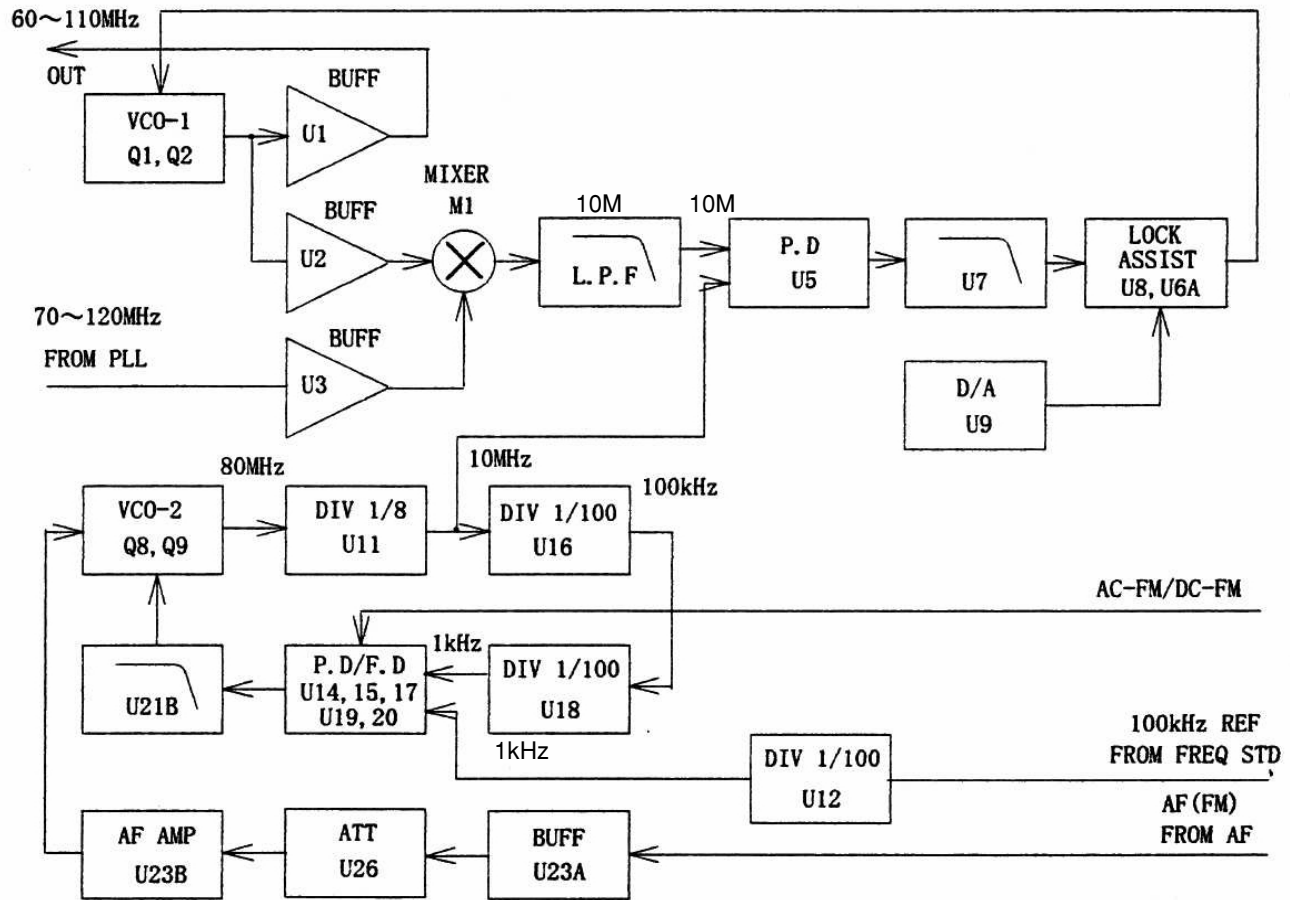


SG-7200/SG-7130

BLOCK DIAGRAM

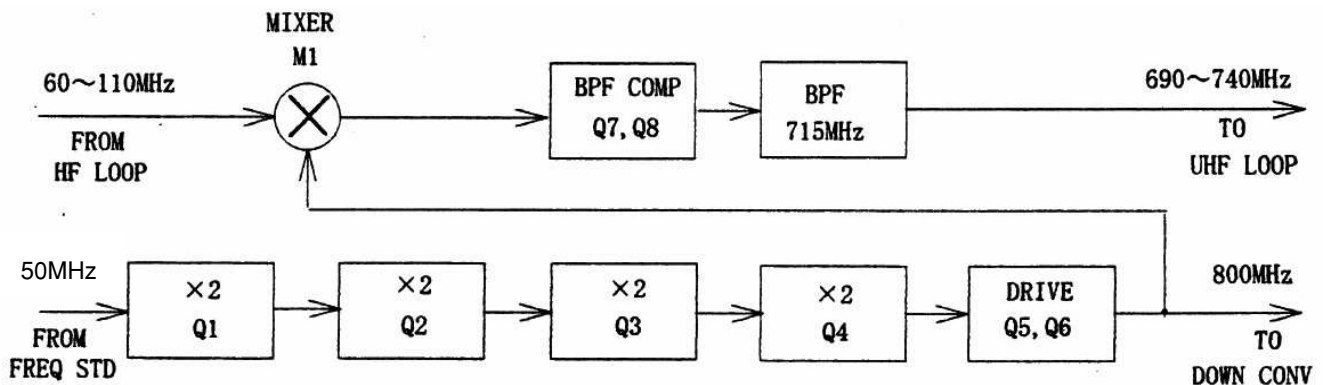
SIGNAL PROCESSOR UNIT

(X79-1270-00)

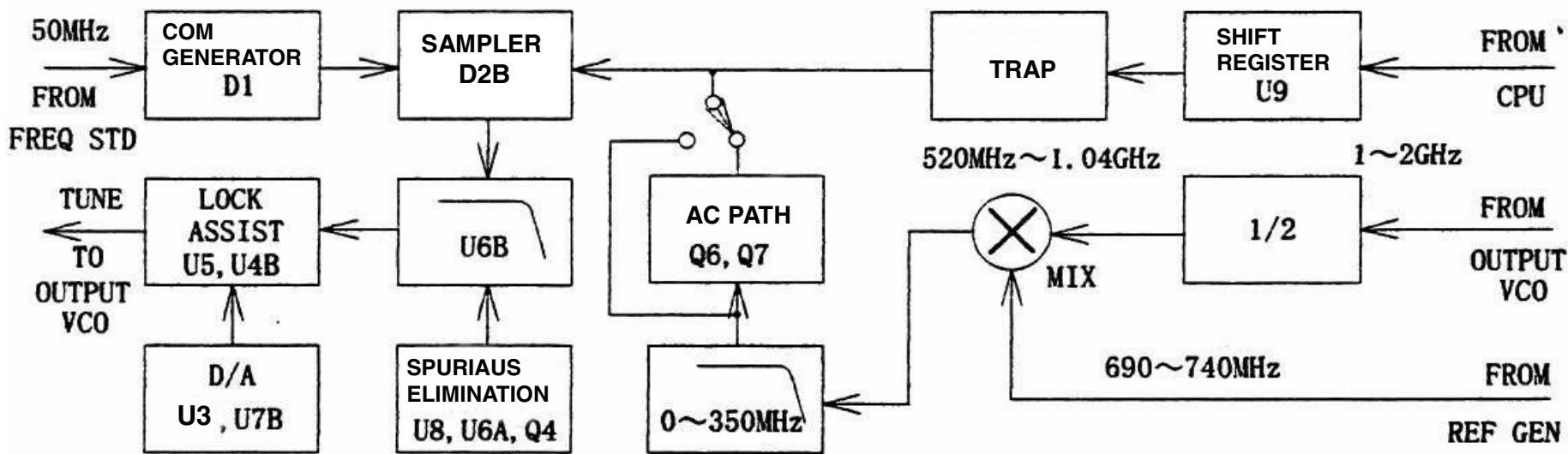


CONVERTER UNIT

(X78-1190-00)



**SIGNAL PROCESSOR UNIT
(X79- 1280- 00)**



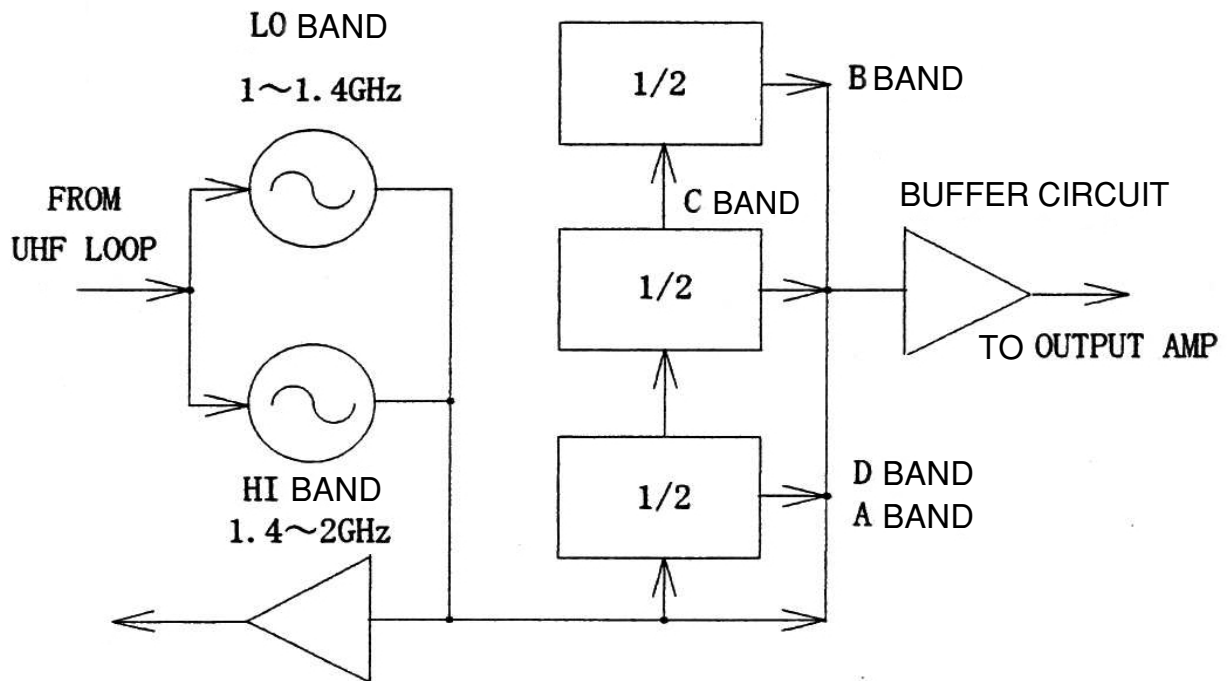
BLOCK DIAGRAM

SG-7200/SG-7130

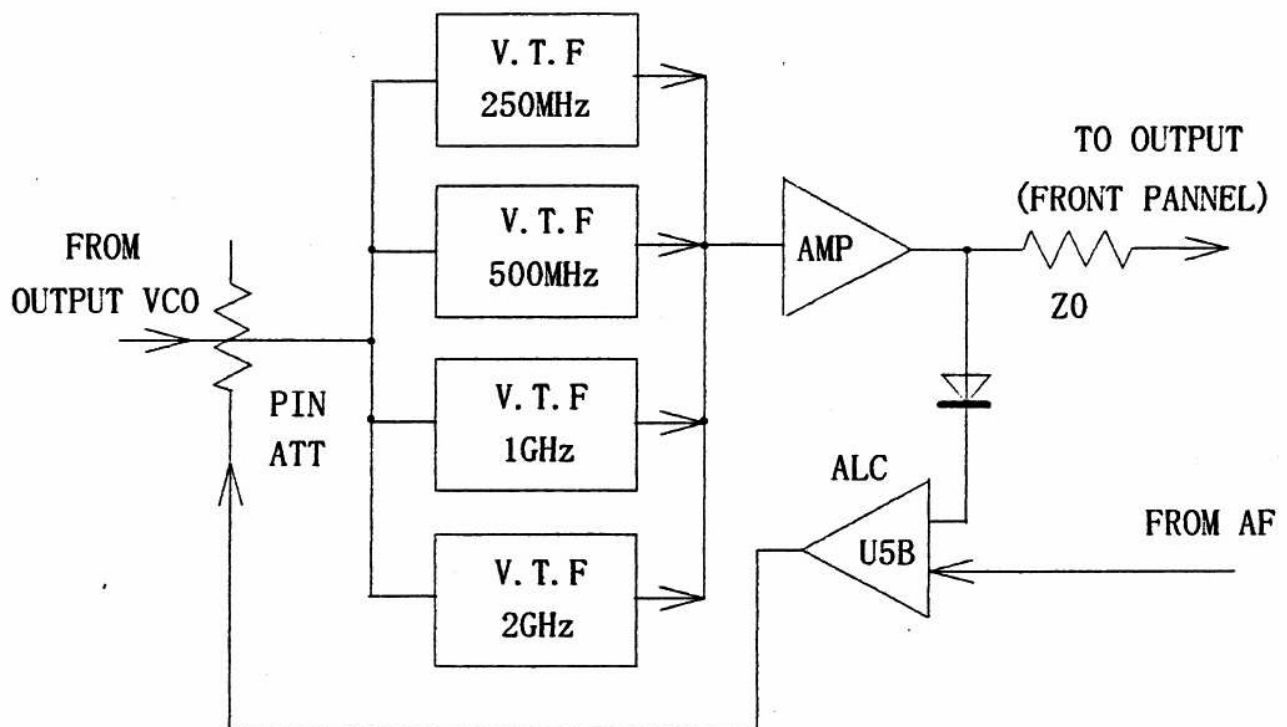
SG-7200/SG-7130

BLOCK DIAGRAM

OSCILLATOR UNIT (X71-1260-00)



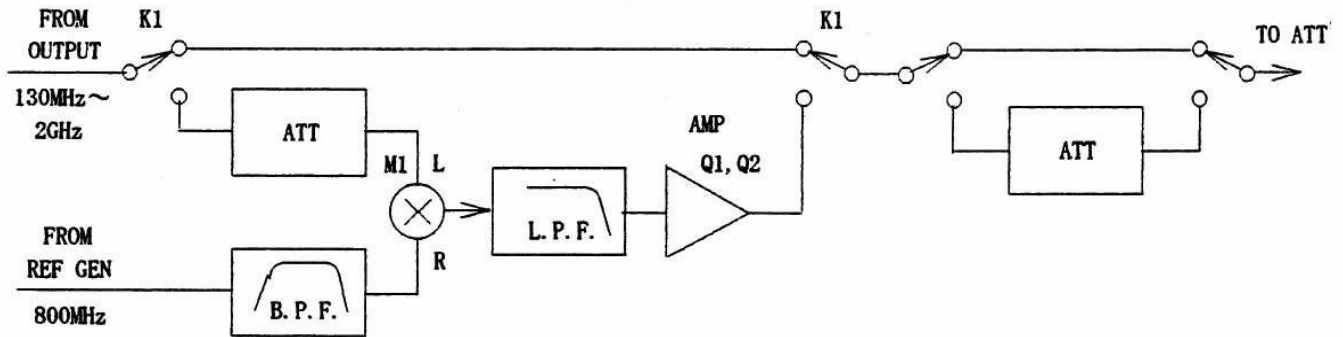
AMP UNIT (X73-2100-00)



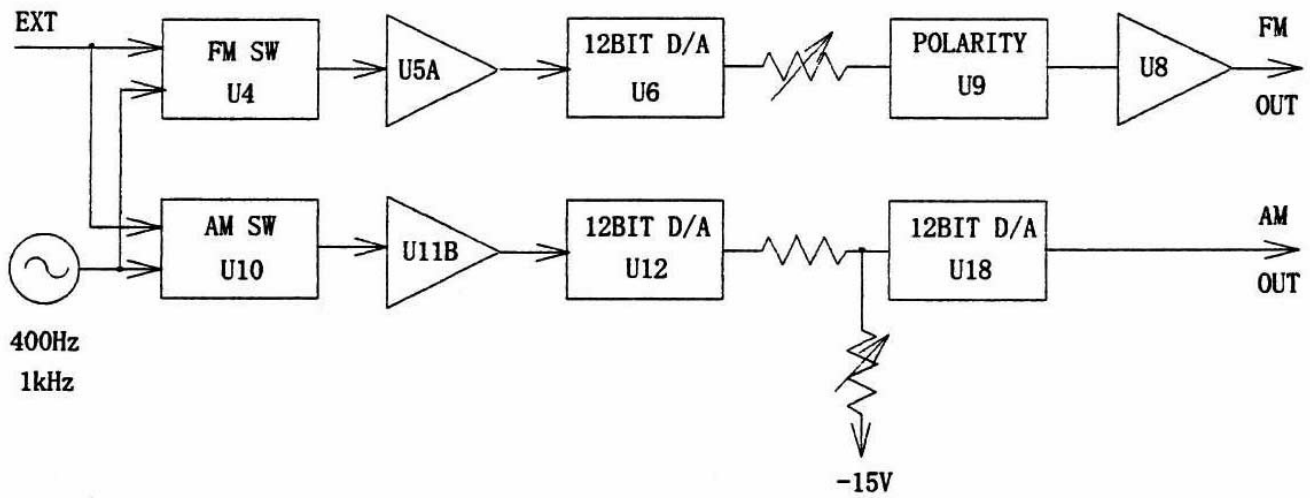
SG-7200/SG-7130

BLOCK DIAGRAM

CONVERTER UNIT (X78-1180-00)



MODULATOR UNIT (X76-1540-00)



SG-7200/SG-7130

ADJUSTMENT

To obtain the best performance, periodically calibrate the unit. Sometimes, only one mode need be calibrated, while at other times, all modes should be calibrated. When one mode is calibrated, it must be noted that the other modes may be affected. When calibrating all modes, perform the calibration in the specified sequence. The following calibration required an accurate measuring instrument and an insulated adjusting flat blade screwdriver. If they are not available, contact your dealer. For optimum adjustment, turn the power on and warm up the scope sufficiently (more than 30 minutes) before starting. Before calibrating the unit, check the power supply voltage.

TEST EQUIPMENT REQUIRED

The following instrument or their equivalent should be used for making adjustment.

Test Equipment	Model	Maker
Multimeter	DL-94	KENWOOD
Power meter	437B	AGILENT TECHNOLOGY
Oscilloscope	CS-5370	KENWOOD
Tracking generator	8595E	AGILENT TECHNOLOGY
Tracking generator	8595E	AGILENT TECHNOLOGY

1. PREPARATION

- 1) Be sure to use a 3P cable with a grounding terminal to supply AC power to the SG-7200.
- 2) Set the GP-IB address to 7. (Press the SHIFT and LOCAL keys, and the address is displayed on the OUTPUT LEVEL LED indicator.)
- 3) Check the ROM No. (Press the SHIFT, -, and RCL keys, and the ROM No. is displayed on the panel frequency LED indicator.)
- 4) Make sure that the VR of each unit is adjusted to the center.
- 5) Usage of the electronic VRs

The SG-7200 employs six non-volatile electronic VRs.

Address 1	Down converter flatness
Address 2	Down converter RF level
Address 3	RF level
Address 4	AM modulation level
Address 5	FM modulation level
Address 6	RF frequency fine control

The above-shown six parameters may be controlled on the panel without the need of opening the RF case.

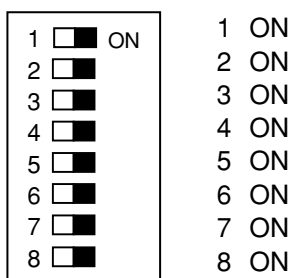
Operation procedures

- ① SP 8 9 SP Enter the electronic VR mode.
- ② SP Address shown above kHz 8 2 SP Electronic VR address assignment
- ③ Increase or decrease the number of the electronic VR with the ^ or v key of the memory.
- ④ SP 8 8 SP Quit the electronic VR mode.

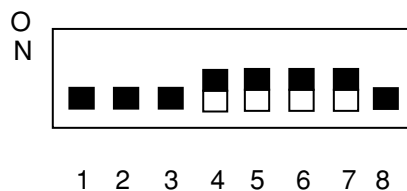
In principle, adjust the electronic VR and then return to the previous mode as shown in step 4.

- 6) Setting of the DIP switches on the CPU board

Set the DIP switches on the CPU board as shown below.



S1



S2

SG-7200/SG-7130

ADJUSTMENT

2. MODULATION UNIT (X76-1540-00)

Screw the AF board to the RF case.

1) Internal OSC level adjustment and frequency check

Frequency	Test point	Level	Adjustment position	Frequency check
1 kHz	TP1(OSC OUT)	3.2 Vrms	R20	±2 %
400Hz	TP1(OSC OUT)	3.2 Vrms	-	±2 %

2) Offset adjustment

- Panel frequency: 200 MHz FM EXT FM ON
- Short-circuit MOD INPUT with the BNC shorting bar.

	FM modulation	Test point	Level	Adjustment position
Normal	0.01 kHz	TP5 (FM OUT)	DC 1 mV or less	R39 (OFFSET 3)
SP31	0.01 kHz	TP5 (FM OUT)	DC 1 mV or less	R41 (OFFSET 2)
Normal	9.99 kHz	TP5 (FM OUT)	DC 1 mV or less	R26 (OFFSET 1)

(SP30: normal modulation, SP31: negative modulation)

- Repeat adjustment until the above three are satisfied

3) EXT HI-LO comparator bias

Test point	Level	Adjustment position
TP12 (H/L LVL)	DC 0.85 V	R81 (H/L LVL) Coarse adjustment

4) FM level adjustment

Panel FM: ON INT: 1 kHz fc: 1000MHz

FM modulation	Test point	Level	Adjustment position
99.9 kHz	TP5 (FM OUT)	1 Vrms	Electronic VR "5" (U7)

5) RF level adjustment

Panel level: +7 dBm

Test point	Level	Adjustment position
TP9 (AM OUT)	DC 1.42 V	Electronic VR "3" (U15)

6) AM level adjustment

Panel AM: ON INT: 1 kHz LEVEL: +7 dBm

AM modulation	Test point	Level	Adjustment position
30 %	TP9 (AM OUT)	0.3 Vrms	Electronic VR "4" (U13)

3. GENERATOR UNIT (X71-1250-00)

1) Set the electronic VRs to the center. (These have been set to the center in the operation test.)

It is necessary to enter the SP 8 9 SP and SP 6 kHz 8 2 SP modes.

SP -100 kHz 8 3 SP

SP 50 kHz 8 3 SP

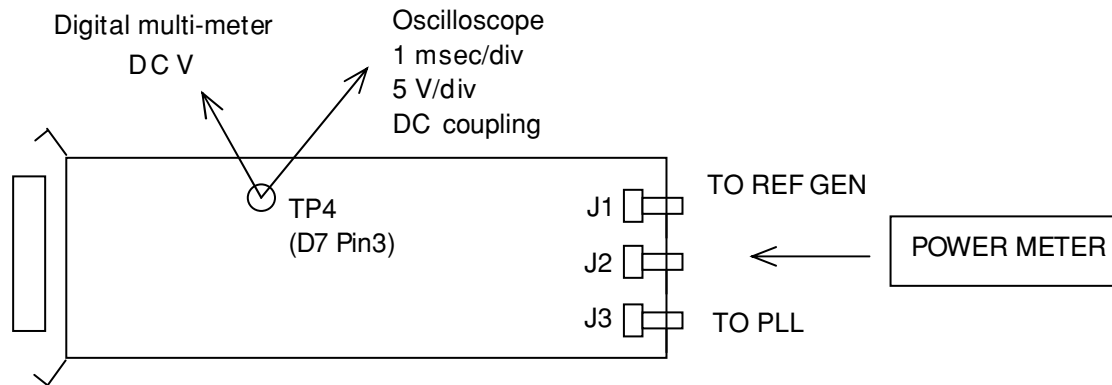
SP 8 8 SP

The (upper and lower) VCO cases have been attached in the operation test.

SG-7200/SG-7130

ADJUSTMENT

2) Connection



- Connect a 10 MHz, 0 dBm signal source (signal generator) with the REF INPUT connector on the rear panel.
 - Connect a counter with the RF OUTPUT connector.
- NOTE: Be sure to connect a 50 Ω load, since the oscillation frequency changes if the load of J2 varies.

3) Adjustment

- Rotate R27 until 0 VDC is detected at TP4.
- Turn off RF of the external SG output. (It is possible to disconnect the SG.)
- Connect the power meter with J2.
- Rotate C2 until the frequency lowers below 10 MHz \pm 1 kHz.
- Rotate R27 (FREQ STD FINE ADJ) until the frequency lowers below 10 MHz \pm 100 Hz.

4. SIGNAL PROCESSOR UNIT (X79-1260-00)

The (upper and lower) VCO cases have been attached in the operation test.

1) FINE SYNTHESIS adjustment

- Measure the DC voltage at TP5.
- Adjust L14 to obtain -8 V at the panel frequency of 89.95001 MHz.
- Make sure that 9.7 V to 10.2 V is obtained at the panel frequency of 89.95000 MHz.

2) Scan adjustment

- Supply 10 MHz signal of FREQ STD to J2.
- Connect the oscilloscope with TP4. 5 V/div., 20 msec./div., DC coupling
- Draw out the L10 (SUM) core gradually.
- When the voltage at TP4 lowers below -12 V, a saw-tooth wave is observed.
- Adjust the amplitude of the saw-tooth wave to 20 V peak to peak with R39 (SCAN). (The period is about 100 msec.)
- Insert the L10 (SUM) core to the very end.

3) Tracking adjustment

- Solder the VCO covers to the VCO case at two points each. (Total: 3)
- Connect the oscilloscope with TP4. 2 V/div., 20 msec./div., DC coupling
- Adjust the voltage at TP4 to 0 V with R106 (TRACKING) at the panel frequency of 715 MHz.
- Make sure that the voltage is below about \pm 1 V or less at the panel frequency of 740 MHz.
If the voltage exceeds -1 V, adjust it to +0.5 V at 715 MHz and make sure that it is below about \pm 1 V or less at 740 MHz.
If the voltage exceeds +1 V, adjust it to -0.5 V at 715 MHz and make sure that it is below about \pm 1 V or less at 740 MHz.

SG-7200/SG-7130

ADJUSTMENT

5. SIGNAL PROCESSOR UNIT (X79-1270-00)

The (upper and lower) VCO cases have been attached in the operation test.

1) Adjusting the HF summing loop frequency

- Connect a spectrum analyzer with J2. (Disconnect the signal cable from the PLL in advance.)
- Adjust the sweep signal center frequency to 109 MHz with L19 at the panel frequency of 691 MHz.
- Vary the panel frequency from 700 MHz to 740 MHz by 10 MHz steps.
- Make sure that the sweep is between 1:3 to 3:1 on the right and left of the center frequency.
- If not, carry out distribution adjustment with L19.

Panel frequency (MHz)	HF output frequency (MHz)	
691	109	Distribution point
700	100	
710	90	Distribution point
720	80	
730	70	
740	60	

2) Scan adjustment

- Observe the signal output from TP3 (SUM OUT) on the oscilloscope. A saw-tooth wave should be output.

Change R38 (SCAN ADJ) and make sure that the period varies from about 220 μ sec to 800 μ sec.

Set R38 to the 3/8 position.

3) FM distortion adjustment

- Set the trimmer C57 to the center.
- Adjust R68 (FM DIST BIAS) so that the voltage at TP7 becomes +6.1 VDC.
- Rotate L20 so that the voltage at TP6 becomes -7.7 VDC.
- Make sure that the DS2 (FM VCO UNLOCK INDICATOR) LED goes out.
- Solder the VCO covers and springs to FM VCO.
- Solder the VCO covers to SUM VCO at four points.

4) Adjustment of Closed Loop DC FM Circuit

- Adjust the panel frequency to 100 MHz and FM modulation to 30 kHz. Select FM EXT and DC FM mode.

• Setting of the function generator

Input the output signal to the MOD INPUT connector of the SG-7200.

Adjust the output level to the point where the HI-LO lamp on the SG-7200 goes out at the sinusoidal wave frequency of 500 Hz.

Hereinafter, carry out adjustment using triangle waves and rectangular waves at the frequency of 0.5 Hz.

• Connecting the oscilloscope and setting

Select the X-Y mode and DC coupling on the oscilloscope.

Connect a 1 μ F film capacitor to TP6 in series, and connect the probe with the Y-axis or CH1 in the 1:10 mode.

Branch the signal output from the function generator and input it to the X-axis of the oscilloscope.

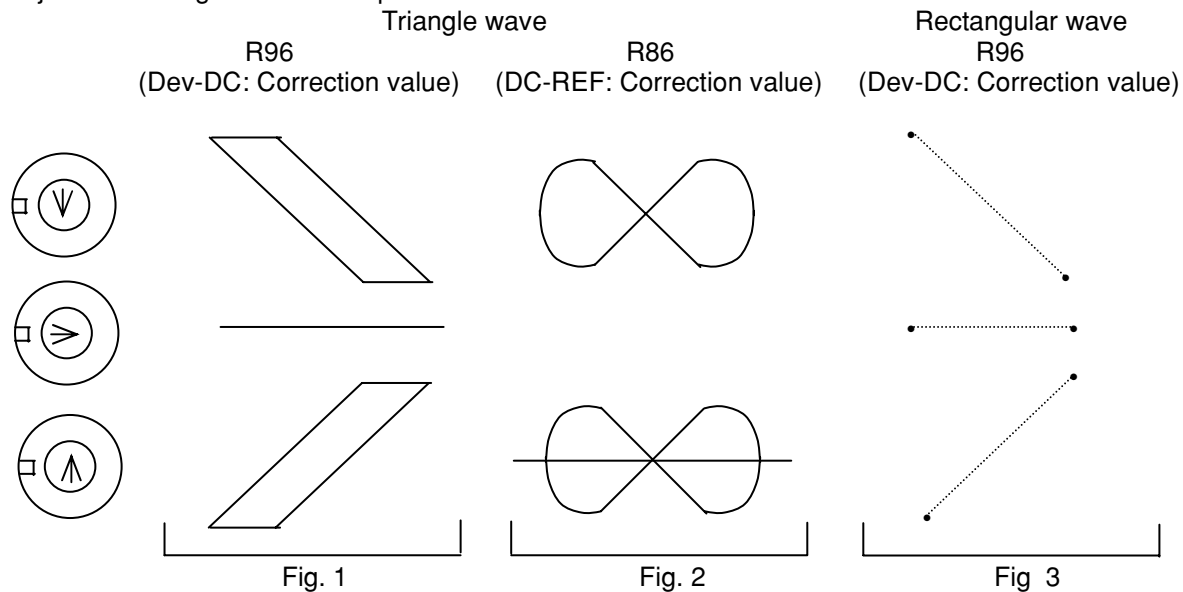
The recommended amplitude of the oscilloscope is 2 to 3 divisions.

(Note that some oscilloscope will not function properly unless the trigger coupling is DC coupling.)

SG-7200/SG-7130

ADJUSTMENT

- Adjustment using the oscilloscope



- Input a triangle wave. Adjust R96 so that the waveform shown in Fig. 1 changes into that shown in Fig. 2.
- Adjust R86 so that the waveform becomes linear as shown in Fig. 3.
- Input a rectangular wave and fine-adjust R96 so that it becomes horizontal.
- Set the panel frequency to 1 MHz and FM deviation to 4.5 kHz. Short-circuit MOD INPUT.
- Connect a frequency counter with J2 (HF loop output).
- Set R94 to the center, and make the DC FM ON frequency equal to the DC FM OFF frequency with R93 (DC FM FREQ). (R94 is re-adjusted in the synthetic adjustment.)
- Put the board into the case, and tighten two screws of the SMB connector.

6. CONVERTER UNIT (X78-1190-00)

1) Set TP10 to the test position.

The (lower) VCO case has been attached in the operation test.

- Put the board into the case and screw it.
- Input the signals from the HF loop and FREQ. STD using cables.
- Connect a power meter (or spectrum analyzer) with J2.
- Adjust the peak with C17 and C27 so that the 800 MHz output level becomes +2 to +4 dBm.
- Set TP10 to the normal position.

2) Spurious check

- Set the panel frequency to 701.000 MHz. Connect the spectrum analyzer with J1.
- Make sure that the spurious at 701 ± 1 MHz is 65 dB or less. (Be sure to measure the spurious with the board put in the case.) If the spurious is worse, the semi-rigid cable may be assembled improperly or TP10 may be set to the test position. Check them.
- Put the board into the case. Tighten two screws of the SMB connector and two screws of the SMA connector.
- Tighten two screws for fixing the board to the case.

7. OSCILLATOR UNIT (X71-1260-00)

Panel frequency: 1 GHz

- Supply DC voltage to J3. Connect the spectrum analyzer with J2.
- Make sure that oscillation develops at $2.1 \text{ GHz} \pm 10 \text{ MHz}$ when DC 9.5 V is input.
- Set the DC voltage to -1.5 V and make sure that oscillation develops at frequencies below 1.45 GHz. If oscillation stops at a frequency over 1.45 GHz, increase the amount of solder on the print coil L11.
- Put the board into the case. Tighten one screw of the SMB connector and two screws of the SMA connector.

SG-7200/SG-7130

ADJUSTMENT

8. SIGNAL PROCESSOR UNIT (X79-1280-00)

The (upper) VCO case has been attached in the operation test.

1) Adjustment of the notch filters (The notch filters have been set in the operation test.)

- Connect the spectrum analyzer with TP2 and tracking generator with TP3.
- Set the span to 10 MHz/division.
- Set CF of the spectrum analyzer to 300 MHz.
Set the panel frequency to 980 MHz.
Minimize the CF level of the spectrum analyzer with C41 (300 MHz IF ADJ).
- Set CF of the spectrum analyzer to 250 MHz.
Set the panel frequency to 930 MHz.
Minimize the CF level of the spectrum analyzer with C37 (250 MHz IF ADJ).
- Set CF of the spectrum analyzer to 200 MHz.
Set the panel frequency to 880 MHz.
Minimize the CF level of the spectrum analyzer with L15 (200 MHz IF ADJ).
- Set CF of the spectrum analyzer to 150 MHz.
Set the panel frequency to 830 MHz.
Minimize the CF level of the spectrum analyzer with L14 (150 MHz IF ADJ).
- Set CF of the spectrum analyzer to 100 MHz.
Set the panel frequency to 780 MHz.
Minimize the CF level of the spectrum analyzer with L13 (100 MHz IF ADJ).
- Set CF of the spectrum analyzer to 50 MHz.
Set the panel frequency to 830 MHz.
Minimize the CF level of the spectrum analyzer with L12 (50 MHz IF ADJ).
- Set C49 to the center while the core of L38 is put in to the limit.
- Set the start frequency of the spectrum analyzer to 0 MHz and stop frequency to 500 MHz.
- Make sure that the difference between the peak and bottom of the notch is -25 dB or more at every frequency.

2) Adjustment of UHF loop

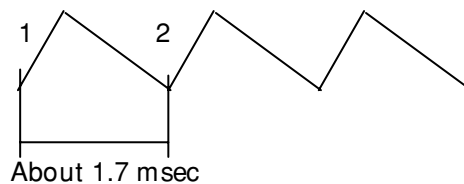
Connecting the jig

- Connect the jig with the SMB cable between UHF and VCO.
- Set the oscilloscope to 5 V/division DC coupling. (Any direction is OK.)

Scan adjustment

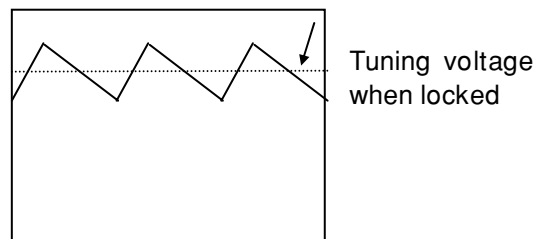
- Compare the sweep periods at the panel frequencies 690 MHz and 691 MHz.
- Set the panel frequency at which the sweep period is shorter.
- Adjust R58 (SCAN) so that the ratio of the upslope to the downslope becomes 1:2.

Replace the mixer if the longer sweep period at 690 MHz or 691 MHz is three times as large as the shorter sweep period.



3) Adjustment of pre-tuning

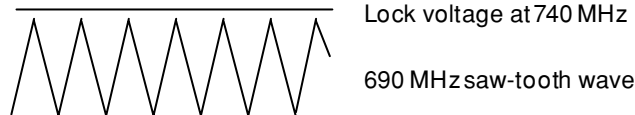
- Set the panel frequency to 521 MHz.
- Set the oscilloscope to DC coupling. While turning on and off the PUSH LOCK button of the jig, adjust R80 (POS) so that UHF is locked at the center voltage of the saw-tooth wave. (Pressing the button locks UHF.)



SG-7200/SG-7130

ADJUSTMENT

- Set the panel frequency to 740 MHz.
While turning on and off the PUSH LOCK button of the jig, adjust R79 (GAIN) so that UHF is locked at the center voltage of the saw-tooth wave. (Pressing the button locks UHF.)
- Set the panel frequency to 1040 MHz. (Raise it from 940 MHz.)
Make sure that UHF is locked in the 1:3 to 3:1 amplitude range of the saw-tooth wave.
If locking point is out of this range, shift the center of the 740 MHz voltage so that the voltages at 740 MHz and 1040 MHz enter the 1:3 to 3:1 range.
- Re-adjust the panel frequency of 521 MHz with R80 (POS).
- Set the panel frequency to 690 MHz.
Make sure that the positive peak of the saw-tooth wave does not exceed the lock voltage at 740 MHz.



9. AMP UNIT (X73-2100-00)

1) Bias adjustment

- Set R43, R46 and R58 to the center.
- Set the output level to -1 dBm.
- Set the panel frequency to 840 MHz.
- Lower the level of higher harmonics below -32 dBc with R58 and R46.
- Vary the panel frequency from 130 MHz to 1 GHz.
- Make sure that the level of higher harmonics at frequencies from 740 to 1000 MHz is below -32 dBc.
- Measure the drain voltage and gate voltage of Q3.
- Make sure that the differential voltage VDG does not exceed 7 V.
- Put the board into the case and tighten two screws of the SMA connector.
- Tighten one screw for fixing the board to the case.

2) Linearity adjustment

- Put the unit into the case. Tighten the screws for fixing the board.
- Assemble the down converter unit in the RF case.
- Connect the down converter unit with the semi-rigid cable.
- Connect the power meter with the output connector.
- Set the panel frequency to 1000 MHz, +13 dBm.
Make sure that the power meter reads +13 dBm. If not, adjust the level with electronic VR 3.
- Bring the power meter into the relative value mode. Set the reading to 0 dB.
Set the panel to +3.1 dBm.
Adjust the power meter reading to -9.9 dB with R13.
- Repeat adjustment until the reading at +13 dBm and -9.9 dB becomes identical.

10. CONVERTER UNIT (X78-1180-00)

Put the unit into the case. Connect it with the ATT using the semi-rigid cable.

1) Level flatness adjustment

- Set the panel frequency to 5 MHz, +7 dBm.
Adjust the reading of the power meter to +7 dBm ± 0.1 dB with electronic VR 2 (U1).
- Set the panel frequency to 80 MHz.
Adjust the reading of the power meter to +7 dBm ± 0.1 dB with electronic VR 1 (U2).
- Set the panel frequency to 100 MHz. Adjust the reading of the power meter to +7 dBm ± 0.3 dB with R52.
- Set the panel frequency to 120 MHz.
Adjust the reading of the power meter to +7 dBm ± 0.3 dB with the trimmer C13.
- Repeat adjustments at 5 MHz, 80 MHz, 100 MHz and 120 MHz.

2) Adjustment of the pre-attenuator

- Set the panel to RF OFF.
- Press the SENSOR ZERO button of the power meter.

SG-7200/SG-7130

ADJUSTMENT

- Set the panel frequency to 2000 MHz (or 13000 MHz on the SG-7130), +7 dBm.
- Bring the power meter into the relative value mode. Set the reading to 0 dB.
- Set the panel to -25 dBm.

Make sure that the power meter reads 32 dB.

If the reading exceeds $32 \text{ dB} \pm 0.3 \text{ dB}$, move the ATT grounding plate to adjust the power meter reading to 32 dB.

- Put the board into the case. Tighten three screws of the SMA connector.

11. Synthetic Adjustment

Put all units into the case. Tighten the cable connectors. When about one hour has passed, carry out synthetic adjustment.

1) Frequency adjustment and check

- Set AM to OFF, FM to OFF, frequency to 1000 MHz and level to 0 dBm.
Adjust the output frequency to $1000 \text{ MHz} \pm 200 \text{ Hz}$ with R27 of GENERATOR UNIT(X71-1250-00) when the DC FM mode is turned off. Adjust the frequency to 1000 MHz accurately with electronic VR 6 (U6).
- Set the panel frequency to 1.00000 MHz, select the DC FM mode, set EXT to 4.5 k, and short-circuit MOD INPUT. Eliminate the difference between the frequencies when DC FM is turned on and off with R94 of SIGNAL PROCESSOR UNIT(X79-1270-00). Set SP31 and check the frequency in the same manner. If it shifts by $\pm 20 \text{ Hz}$, carry out distribution adjustment of SP30 and SP31.

2) Level adjustment and check

- Connect the power meter with the output connector.
- Adjust the level to 7 dBm at 1000 MHz with electronic VR 3.
- Set the panel frequency to 2000 MHz.
If the power meter reads a value of $\pm 0.5 \text{ dB}$ or more, lower it below $\pm 0.5 \text{ dB}$ or less with VR of R9 of AMP UNIT(X73-2110-00). Make sure that the flatness between 200 MHz and 2 GHz meets the standard.

3) FM modulation adjustment (External modulation)

- Set the panel frequency to 100 MHz, turn on FM, set the FM modulation to 75 kHz, turn off AM, and select external modulation.
- Set the 8902A to FM, PEAK+, 50 Hz HPF, and 15 kHz LPF. Connect it with the output connector.
- Set the output of the 8903A to 1 kHz, 0.747 V. Connect it with EXT MOD of the SG-7200.
- Adjust the reading of the 8902A to 75 kHz with electronic VR 5.

4) FM modulation adjustment (Internal modulation)

- Set the panel frequency to 100 MHz, turn on FM, set the FM modulation to 75 kHz, turn off AM, and select internal modulation.
- Set the reading of the 8902A to 75 kHz with R20 (OSC LVL) of MODULATOR UNIT(X76-1540-00).

5) FM2 signal modulation adjustment

- Press the FM-FM key to select the FM2 signal mode.
- Press EXT to display the EXT modulation level. Set FM to 0 kHz.
- Press the 1 kHz key to display the internal modulation level. Set FM to 99.9 kHz.
- Set the reading of the 8902A to 99.9 kHz with R104 (2 TONE) of MODULATOR UNIT(X76-1540-00).

6) AM modulation adjustment

- Set the panel frequency to 850 MHz, turn off FM, turn on AM, and set the internal modulation frequency to 1 kHz.
- Set the 8902A to AM, PEAK \pm /2, 50 Hz HPF, and 15 kHz LPF. Connect it with the output connector.
- Switch the output level between 3.0 dBm and 3.1 dBm.
- Carry out distribution adjustment of the modulation with electronic VR 4 until the reading becomes identical to the set value.

SG-7200/SG-7130

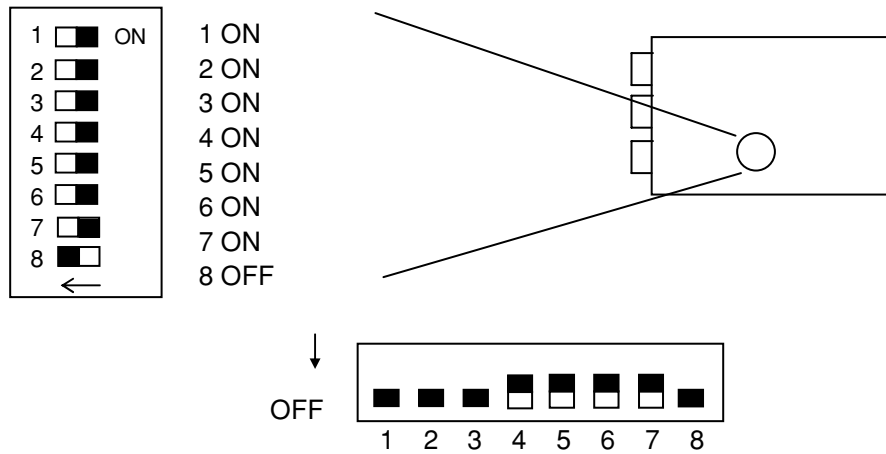
ADJUSTMENT

7) Final setting

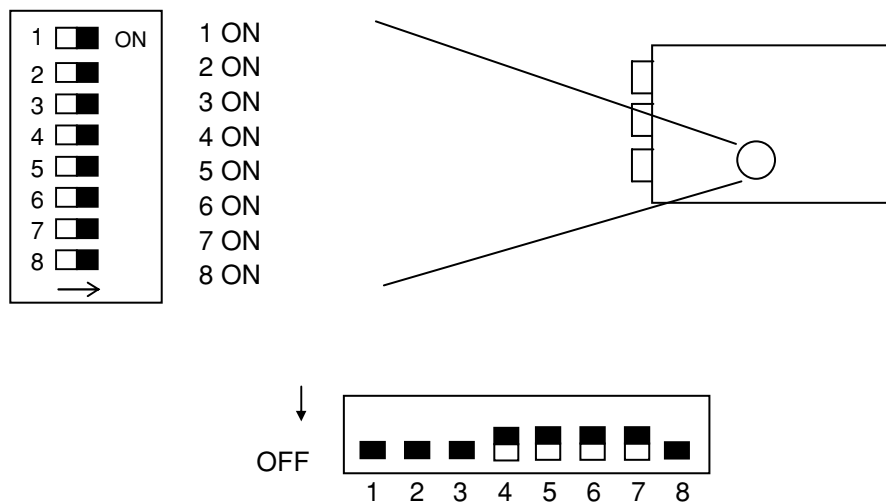
After collecting data for the test report, carry out production reset.

Product reset

1. Set the DIP switches on the CPU board as shown in Fig. 1.



2. Throw the power switch while holding the SHIFT key. Keep holding the SHIFT key for three seconds.
3. Set the DIP switches on the CPU board as shown in Fig. 1.



4. Throw the power switch while holding the SHIFT key. Keep holding the SHIFT key for three seconds.

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①

Ref. No	-00	-01	Parts No.	Name & Description
SG-7200 (Y76-1030-00) SG-7130 (Y76-1030-01)				
			A01-4024-12	CASE; TOP
			A01-4025-12	CASE; BOTTOM
			A01-4041-03	CASE; TOP (UNIT CASE COVER)
			A01-4042-13	CASE; BOTTOM (RF CASE)
			A13-2204-15	FRAME (ESCUTCHEON)
			A13-2208-02	FRAME
			A13-2209-02	FRAME; SIDE
			A22-1313-02	SUB PANEL
			A63-0192-02	FRONT PANEL (SG-7200)
			A63-0193-02	FRONT PANEL (SG-7130)
			A83-0076-22	REAR PANEL
			B09-0409-03	CAP; HANDLE
			B11-0556-03	FILTER
			B30-0903-15	LED
			B41-2083-04	CAUTION LABEL; PL GND
			B42-3819-05	SERIAL No. PLATE
			B42-3820-05	LABEL
			B63-0234-00	INSTRUCTION MANUAL; JAPANESE
			B63-0235-00	INSTRUCTION MANUAL; ENGLISH
			E03-0222-05	AC INLET
			E04-0286-05	BNC RECEPTACLE
			E04-0290-05	RF COAXIAL CONNECTOR
			E21-0667-05	TERMINAL
			E30-1929-05	BS POWER CORD
			E30-1950-05	JIS POWER CORD
			E30-1951-05	UL/CSA POWER CORD
			E30-1952-05	CEE POWER CORD
			E30-1953-05	SAA POWER CORD
			F06-1022-05	FUSE (5x20) T1A/250V
			F10-2503-03	SHIELD PLATE
			F15-0776-04	BLIND PLATE
			F19-1550-05	HOLE CAP
			F20-3043-04	INSULATOR
			G02-0620-04	SPRING
			G02-0621-04	SPRING
			H10-2885-12	FOAMED STYREN PAD
			H20-1721-04	VINYL COVER
			H53-0169-14	CARTON BOX (SG-7200)
			H53-0170-14	CARTON BOX (SG-7130)
			J02-0089-05	RUBBER FOOT; SIDE
			J02-0519-05	RUBBER FOOT; BOTTOM
			J02-0535-03	RUBBER FOOT; REAR
			J19-1688-14	HOLDER; CONNECTION UNIT
			J19-1689-14	HOLDER; OUT CONNECTOR
			J19-1690-04	HOLDER; RF CASE HOLDER-A
			J19-1692-14	HOLDER; SHIELD CASE HOLDER-B
			J19-1693-04	SPRING HOLDER-A
			J19-1694-04	SPRING HOLDER-B
			J21-4843-04	BRACKET; HANDLE
			J21-4940-04	BRACKET
			J29-0534-03	BRACKET; RF CASE RIGHT
			J29-0535-04	BRACKET; RF CASE LEFT

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②

Ref. No	-00	-01	Parts No.	Name & Description
			J32-0865-04	BOSS (L=10MM/M3)
			J30-0654-04	SPACER
			J31-0635-05	COLLAR
			J32-1221-14	BOSS (L=6MM/2.6)
			J32-1234-04	BOSS (L=14MM)
			J32-1236-04	BOSS (L=9MM/M2.6)
			J32-1237-04	BOSS (L=7MM/M3)
			J32-1238-04	BOSS (L=51.3/M3)
			J32-1248-04	BOSS (L=6/M2.6)
			J32-1254-04	BOSS,HEX (L=11MM/M3)
			K01-0558-15	HANDLE
			K21-0951-03	KNOB; ROTARY ENCODER
			K27-3650-04	KNOB SET (1assembly)
			N09-0718-05	SCREW, SEMS (M3*6)
			N09-4515-15	SCREW, FLAT HE (M4*12)
			N09-4519-04	SCREW, SEMS (M2.6*6)
			N10-2023-41	HEXAGON NUT
			N11-0040-41	FRANGE NUT
			N14-0622-05	TOOTHED LOCK NUT
			N17-1020-46	TOOTHED LOCK WASHER
			N19-0750-05	WASHER; ENCODER
			N30-2316-41	SCREW, PAN HD
			N30-4006-41	SCREW, PAN HD (M4*6)
			N30-4010-41	SCREW, PAN HD (M4*10)
			N30-4014-41	SCREW, PAN HD (M4*14)
			N32-2604-41	SCREW, FLAT HD (M2.6*4)
			N32-3006-41	SCREW, FLAT HD (M3*6)
			N32-4016-41	SCREW, FLAT HD (M4*16)
			N33-3008-41	SCREW, OVAL HD (M3*8)
			N35-2003-41	SCREW,BINDING HD (M2*3)
			N35-3010-41	SCREW,BINDING HD (M3*10)
			N67-2606-41	SCREW, SEMS PAN HD (M2.6*6)
			N67-3006-41	SCREW, SEMS PAN HD (M3*6)
			N67-3008-41	SCREW, SEMS PAN HD (M3*8)
			S40-2532-05	PUSH SWITCH
			X66-1440-00	PANEL UNIT
			X66-1450-00	DISPLAY UNIT
			X67-1260-00	CONNECTION UNIT
			X67-1270-00	MOTHER BOARD UNIT
			X67-1280-00	CONNECTION UNIT
			X67-1360-00	CONNECTION UNIT
			X67-1360-01	CONNECTION UNIT
			X67-1360-02	CONNECTION UNIT
			X67-1360-03	CONNECTION UNIT
			X67-1360-04	CONNECTION UNIT
			X67-1360-05	CONNECTION UNIT
			X67-1360-06	CONNECTION UNIT
			X67-1360-07	CONNECTION UNIT
			X68-1780-00	POWER UNIT
			X68-1790-00	POWER UNIT
			X71-1250-00	GENERATOR UNIT
			X71-1260-00	OSCILLATOR UNIT
			X72-1220-00	OUTPUT UNIT

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PARTS LIST(UNIT)

SG-7200/SG-7130

SG-7200/SG-7130

PARTS LIST

3

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
Ref. No	-00	-01	Parts No.	Name & Description
			X73-2100-00	AMP UNIT
			X73-2110-00	AMP UNIT
			X75-1230-00	ATTENUATOR UNIT
			X76-1540-00	MODULATOR UNIT
			X77-1970-00	CPU UNIT
			X77-1970-01	CPU UNIT
			X78-1180-00	CONVERTOR UNIT
			X78-1190-00	CONVERTOR UNIT
			X78-1200-00	CONVERTOR UNIT
			X79-1260-00	SIGNAL PROCESSOR UNIT
			X79-1270-00	SIGNAL PROCESSOR UNIT
			X79-1280-00	SIGNAL PROCESSOR UNIT

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Ref. No	Parts No.	Name & Description			
PANEL UNIT (X66-1440-00)					
	J73-0531-12	PCB (UNMONTED)			
C1	CQ93FMG1H562J	CAP. PLASTIC FILM	5600p	5%	50V
C2	CQ93FMG1H562J	CAP. PLASTIC FILM	5600p	5%	50V
C3	CQ93FMG1H562J	CAP. PLASTIC FILM	5600p	5%	50V
C4	CQ93FMG1H562J	CAP. PLASTIC FILM	5600p	5%	50V
C5	C91-1315-05	CAP. CERAMIC	0.1µ	-20/80%	50V
C6	C91-1315-05	CAP. CERAMIC	0.1µ	-20/80%	50V
C7	C91-1315-05	CAP. CERAMIC	0.1µ	-20/80%	50V
C8	C91-1315-05	CAP. CERAMIC	0.1µ	-20/80%	50V
C9	C91-1315-05	CAP. CERAMIC	0.1µ	-20/80%	50V
CP1	R90-0628-05	RES. NETWORK	10K	5%	1/8W
CP2	R90-0628-05	RES. NETWORK	10K	5%	1/8W
CP3	R90-0628-05	RES. NETWORK	10K	5%	1/8W
D1	1SS270	DIODE			
D2	1SS270	DIODE			
D3	1SS270	DIODE			
D4	1SS270	DIODE			
D5	1SS270	DIODE			
D6	1SS270	DIODE			
D7	1SS270	DIODE			
D8	1SS270	DIODE			
J1	E40-7489-05	PIN CONNECTOR	50P		
P1	E40-3261-05	PIN CONNECTOR	3P		
P2	E40-3261-05	PIN CONNECTOR	3P		
Q1	2SA1175(E)	TR. SI, PNP			
Q2	2SA1175(E)	TR. SI, PNP			
Q3	2SA1175(E)	TR. SI, PNP			
Q4	2SA1175(E)	TR. SI, PNP			
Q5	2SA1175(E)	TR. SI, PNP			
Q6	2SA1175(E)	TR. SI, PNP			
Q7	2SA1175(E)	TR. SI, PNP			
R1	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W
R2	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W
R3	RN14BK2C2203F	RES. METAL FILM	220K	1%	1/6W
R4	RN14BK2C2203F	RES. METAL FILM	220K	1%	1/6W
R5	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W
R6	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W
R7	RN14BK2C2203F	RES. METAL FILM	220K	1%	1/6W
R8	RN14BK2C2203F	RES. METAL FILM	220K	1%	1/6W
R9	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W
R10	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W
R11	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W
R12	RN14BK2C4702F	RES. METAL FILM	47K	1%	1/6W
R13	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W
R14	RN14BK2C3300F	RES. METAL FILM	330	1%	1/6W
S1	S70-0601-05	TACT SWITCH			
S2	S70-0601-05	TACT SWITCH			
S3	S70-0601-05	TACT SWITCH			
S4	S70-0601-05	TACT SWITCH			
S5	S70-0601-05	TACT SWITCH			
S7	S70-0601-05	TACT SWITCH			

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②

Ref. No	Parts No.	Name & Description
S8	S70-0602-05	TACT SWITCH
S9	S70-0602-05	TACT SWITCH
S10	S70-0602-05	TACT SWITCH
S11	S70-0601-05	TACT SWITCH
S12	S70-0601-05	TACT SWITCH
S13	S70-0601-05	TACT SWITCH
S14	S70-0601-05	TACT SWITCH
S15	S70-0601-05	TACT SWITCH
S16	S70-0601-05	TACT SWITCH
S17	S70-0601-05	TACT SWITCH
S18	S70-0601-05	TACT SWITCH
S19	S70-0601-05	TACT SWITCH
S20	S70-0602-05	TACT SWITCH
S21	S70-0602-05	TACT SWITCH
S22	S70-0602-05	TACT SWITCH
S24	S70-0601-05	TACT SWITCH
S25	S70-0601-05	TACT SWITCH
S26	S70-0601-05	TACT SWITCH
S27	S70-0601-05	TACT SWITCH
S28	S70-0601-05	TACT SWITCH
S29	S70-0601-05	TACT SWITCH
S30	S70-0601-05	TACT SWITCH
S31	S70-0601-05	TACT SWITCH
S32	S70-0601-05	TACT SWITCH
S33	S70-0601-05	TACT SWITCH
S34	S70-0601-05	TACT SWITCH
S35	S70-0601-05	TACT SWITCH
S36	S70-0601-05	TACT SWITCH
S37	S70-0602-05	TACT SWITCH
S38	S70-0601-05	TACT SWITCH
S39	S70-0601-05	TACT SWITCH
S40	S70-0601-05	TACT SWITCH
S41	S70-0601-05	TACT SWITCH
S42	S70-0601-05	TACT SWITCH
S43	S70-0601-05	TACT SWITCH
S44	S70-0601-05	TACT SWITCH
S45	S70-0601-05	TACT SWITCH
S46	S70-0601-05	TACT SWITCH
S47	S70-0601-05	TACT SWITCH
S48	S70-0601-05	TACT SWITCH
S49	S70-0601-05	TACT SWITCH
S50	S70-0601-05	TACT SWITCH
S51	W02-4058-05	ROTARY ENCODER
S52	W02-4058-05	ROTARY ENCODER
U1	TC4013BP	IC, DUAL D-TYPE FLIP-FLOP
U2	TC4013BP	IC, DUAL D-TYPE FLIP-FLOP
U3	CD4532BE	IC, 8-BIT PRIORITY ENCODER
U4	TC74HC541AP	IC, OCTAL BUS BUFFER (3-STATE)
U5	CD4532BE	IC, 8-BIT PRIORITY ENCODER
U6	CD4572UBE	IC, HEX GATE
DISPLAY UNIT (S/No. 7050001~) (X66-1450-00)		
	J73-0531-12	PCB (UNMONTED)
	J31-0653-05	SPACER
	J31-0654-05	SPACER

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PARTS LIST(ELECTRICAL)

SG-7200/SG-7130

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Ref. No	Parts No.	Name & Description
	J39-0547-05	SPACER
C1	C91-1315-05	CAP. CERAMIC
C2	C91-1315-05	CAP. CERAMIC
		0.1u -20/80% 50V
		0.1u -20/80% 50V
D1	1SS270	DIODE
D2	1SS270	DIODE
D3	1SS270	DIODE
D4	1SS270	DIODE
D5	1SS270	DIODE
D6	1SS270	DIODE
D7	1SS270	DIODE
D8	1SS270	DIODE
D9	1SS270	DIODE
D10	1SS270	DIODE
DS1	B30-3024-05	LED; 7-SEGMENT
DS2	B30-3024-05	LED; 7-SEGMENT
DS3	B30-3024-05	LED; 7-SEGMENT
DS4	B30-3024-05	LED; 7-SEGMENT
DS5	B30-3024-05	LED; 7-SEGMENT
DS6	B30-3024-05	LED; 7-SEGMENT
DS7	B30-3024-05	LED; 7-SEGMENT
DS8	B30-3024-05	LED; 7-SEGMENT
DS9	B30-3024-05	LED; 7-SEGMENT
DS10	B30-3024-05	LED; 7-SEGMENT
DS11	B30-3024-05	LED; 7-SEGMENT
DS12	B30-3024-05	LED; 7-SEGMENT
DS13	B30-3024-05	LED; 7-SEGMENT
DS14	B30-3024-05	LED; 7-SEGMENT
DS15	B30-3024-05	LED; 7-SEGMENT
DS16	B30-3024-05	LED; 7-SEGMENT
DS17	B30-3024-05	LED; 7-SEGMENT
DS18	B30-3024-05	LED; 7-SEGMENT
DS19	LD-201VR	LED: RED
DS20	LD-201VR	LED: RED
DS21	LD-201VR	LED: RED
DS22	LD-201VR	LED: RED
DS23	LD-201VR	LED: RED
DS24	LD-201DU	LED: AMBER
DS25	LD-201DU	LED: AMBER
DS26	LD-201DU	LED: AMBER
DS27	LD-201DU	LED: AMBER
DS28	LD-201DU	LED: AMBER
DS29	LD-201DU	LED: AMBER
DS30	B30-0990-05	LED: GREEN
DS31	B30-0990-05	LED: GREEN
DS32	B30-0990-05	LED: GREEN
DS33	B30-0990-05	LED: GREEN
DS34	B30-0990-05	LED: GREEN
DS35	LD-201VR	LED: RED
DS36	B30-0990-05	LED: GREEN
DS37	B30-0990-05	LED: GREEN
DS38	B30-0990-05	LED: GREEN
DS39	B30-0990-05	LED: GREEN
DS40	B30-0990-05	LED: GREEN
DS41	B30-0990-05	LED: GREEN

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4

Ref. No	Parts No.	Name & Description
DS42	B30-0990-05	LED: GREEN
DS43	B30-0990-05	LED: GREEN
DS44	LD-201VR	LED: RED
DS45	LD-201VR	LED: RED
DS46	LD-201VR	LED: RED
DS47	LD-201VR	LED: RED
DS48	LD-201VR	LED: RED
DS49	B30-0990-05	LED: GREEN
DS50	B30-0990-05	LED: GREEN
DS51	B30-0990-05	LED: GREEN
DS52	LD-201VR	LED: RED
DS53	LD-201VR	LED: RED
J1	E15-0501-05	LED LAMP SOCKET
J2	E15-0501-05	LED LAMP SOCKET
J3	E15-0501-05	LED LAMP SOCKET
J4	E15-0501-05	LED LAMP SOCKET
J5	E15-0501-05	LED LAMP SOCKET
J6	E15-0501-05	LED LAMP SOCKET
J7	E15-0501-05	LED LAMP SOCKET
J8	E15-0501-05	LED LAMP SOCKET
J9	E15-0501-05	LED LAMP SOCKET
J10	E15-0501-05	LED LAMP SOCKET
J11	E15-0501-05	LED LAMP SOCKET
J12	E15-0501-05	LED LAMP SOCKET
J13	E15-0501-05	LED LAMP SOCKET
J14	E15-0501-05	LED LAMP SOCKET
J15	E15-0501-05	LED LAMP SOCKET
J16	E15-0501-05	LED LAMP SOCKET
J17	E15-0501-05	LED LAMP SOCKET
J18	E15-0501-05	LED LAMP SOCKET
J19	E15-0501-05	LED LAMP SOCKET
J20	E15-0501-05	LED LAMP SOCKET
J21	E15-0501-05	LED LAMP SOCKET
J22	E15-0501-05	LED LAMP SOCKET
J23	E15-0501-05	LED LAMP SOCKET
J24	E15-0501-05	LED LAMP SOCKET
J25	E15-0501-05	LED LAMP SOCKET
J26	E15-0501-05	LED LAMP SOCKET
J27	E15-0501-05	LED LAMP SOCKET
J28	E15-0501-05	LED LAMP SOCKET
J29	E15-0501-05	LED LAMP SOCKET
J30	E15-0501-05	LED LAMP SOCKET
J31	E15-0501-05	LED LAMP SOCKET
J32	E15-0501-05	LED LAMP SOCKET
J33	E15-0501-05	LED LAMP SOCKET
J34	E15-0501-05	LED LAMP SOCKET
J35	E15-0501-05	LED LAMP SOCKET
J36	E15-0501-05	LED LAMP SOCKET
P1	E40-7472-05	CONNECTOR
P2	E40-7491-05	CONNECTOR
P3	E40-3249-05	CONNECTOR
		14P
		50P
		5P
Q19	2SC3402	TR. SI, NPN
Q20	2SC3402	TR. SI, NPN

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7

Ref. No	Parts No.	Name & Description			
R131	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R132	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R133	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R134	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R135	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R136	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R137	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R138	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R139	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R140	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R141	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R142	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R143	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R144	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R145	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R146	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R147	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R148	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R149	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R150	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R151	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R152	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R153	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R154	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R155	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R156	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R157	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R158	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R159	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R160	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R161	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R162	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R163	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R164	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R165	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R166	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R167	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R168	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R169	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R170	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R171	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R172	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R173	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R174	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R175	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R176	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R177	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R178	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R179	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R180	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R181	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R182	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R183	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R184	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R185	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W

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R186	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R187	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R188	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R189	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R190	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R191	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R192	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R193	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R194	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R195	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R196	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R197	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R198	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R199	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R200	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R201	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R202	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R203	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R204	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R205	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R206	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R207	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R208	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R209	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R210	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R211	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
U1	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U2	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U3	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U4	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U5	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U6	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U7	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U8	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U9	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U10	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U11	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U12	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U13	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U14	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U15	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U16	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U17	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U18	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U19	CD4572BE	IC, HEX GATE			
U20	HD74HC4515P	IC			
U21	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U22	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U23	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U24	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U25	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U26	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U27	TC74HC174AP	IC, HEX D FLIP-FLOP WITH CLEAR			
U28	TC74HC174AP	IC, HEX D FLIP-FLOP WITH CLEAR			
U30	TC74HC04AP	IC			

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PARTS LIST
 SG-7200/SG-7130

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Ref. No	Parts No.	Name & Description			
U31	TC74HC04AP	IC			
DISPLAY UNIT (X66-1450-00)					
	J73-0531-02 J39-0546-05 J39-0547-05	PCB (UNMONTED) SPACER SPACER			
C1	C91-1315-05	CAP. CERAMIC	0.1u	-20/80%	50V
C2	C91-1315-05	CAP. CERAMIC	0.1u	-20/80%	50V
D1	1SS270	DIODE			
D2	1SS270	DIODE			
DS1	B30-3024-05	LED; 7-SEGMENT			
DS2	B30-3024-05	LED; 7-SEGMENT			
DS3	B30-3024-05	LED; 7-SEGMENT			
DS4	B30-3024-05	LED; 7-SEGMENT			
DS5	B30-3024-05	LED; 7-SEGMENT			
DS6	B30-3024-05	LED; 7-SEGMENT			
DS7	B30-3024-05	LED; 7-SEGMENT			
DS8	B30-3024-05	LED; 7-SEGMENT			
DS9	B30-3024-05	LED; 7-SEGMENT			
DS10	B30-3024-05	LED; 7-SEGMENT			
DS11	B30-3024-05	LED; 7-SEGMENT			
DS12	B30-3024-05	LED; 7-SEGMENT			
DS13	B30-3024-05	LED; 7-SEGMENT			
DS14	B30-3024-05	LED; 7-SEGMENT			
DS15	B30-3024-05	LED; 7-SEGMENT			
DS16	B30-3024-05	LED; 7-SEGMENT			
DS17	B30-3024-05	LED; 7-SEGMENT			
DS18	B30-3024-05	LED; 7-SEGMENT			
DS19	B30-3025-05	LED: RED			
DS20	B30-3025-05	LED: RED			
DS21	B30-3025-05	LED: RED			
DS22	B30-3025-05	LED: RED			
DS23	B30-3025-05	LED: RED			
DS24	B30-3026-05	LED: AMBER			
DS25	B30-3026-05	LED: AMBER			
DS26	B30-3026-05	LED: AMBER			
DS27	B30-3026-05	LED: AMBER			
DS28	B30-3026-05	LED: AMBER			
DS29	B30-3026-05	LED: AMBER			
DS30	B30-0990-05	LED: GREEN			
DS31	B30-0990-05	LED: GREEN			
DS32	B30-0990-05	LED: GREEN			
DS33	B30-0990-05	LED: GREEN			
DS34	B30-0990-05	LED: GREEN			
DS35	B30-3025-05	LED: RED			
DS36	B30-0990-05	LED: GREEN			
DS37	B30-0990-05	LED: GREEN			
DS38	B30-0990-05	LED: GREEN			
DS39	B30-0990-05	LED: GREEN			
DS40	B30-0990-05	LED: GREEN			
DS41	B30-0990-05	LED: GREEN			
DS42	B30-0990-05	LED: GREEN			
DS43	B30-0990-05	LED: GREEN			
DS44	B30-3025-05	LED: RED			

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Ref. No	Parts No.	Name & Description	
DS45	B30-3025-05	LED: RED	
DS46	B30-3025-05	LED: RED	
DS47	B30-3025-05	LED: RED	
DS48	B30-3025-05	LED: RED	
DS49	B30-0990-05	LED: GREEN	
DS50	B30-0990-05	LED: GREEN	
DS51	B30-0990-05	LED: GREEN	
DS52	B30-3025-05	LED: RED	
DS53	B30-3025-05	LED: RED	
J1	E15-0501-05	LED LAMP SOCKET	
J2	E15-0501-05	LED LAMP SOCKET	
J3	E15-0501-05	LED LAMP SOCKET	
J4	E15-0501-05	LED LAMP SOCKET	
J5	E15-0501-05	LED LAMP SOCKET	
J6	E15-0501-05	LED LAMP SOCKET	
J7	E15-0501-05	LED LAMP SOCKET	
J8	E15-0501-05	LED LAMP SOCKET	
J9	E15-0501-05	LED LAMP SOCKET	
J10	E15-0501-05	LED LAMP SOCKET	
J11	E15-0501-05	LED LAMP SOCKET	
J12	E15-0501-05	LED LAMP SOCKET	
J13	E15-0501-05	LED LAMP SOCKET	
J14	E15-0501-05	LED LAMP SOCKET	
J15	E15-0501-05	LED LAMP SOCKET	
J16	E15-0501-05	LED LAMP SOCKET	
J17	E15-0501-05	LED LAMP SOCKET	
J18	E15-0501-05	LED LAMP SOCKET	
J19	E15-0501-05	LED LAMP SOCKET	
J20	E15-0501-05	LED LAMP SOCKET	
J21	E15-0501-05	LED LAMP SOCKET	
J22	E15-0501-05	LED LAMP SOCKET	
J23	E15-0501-05	LED LAMP SOCKET	
J24	E15-0501-05	LED LAMP SOCKET	
J25	E15-0501-05	LED LAMP SOCKET	
J26	E15-0501-05	LED LAMP SOCKET	
J27	E15-0501-05	LED LAMP SOCKET	
J28	E15-0501-05	LED LAMP SOCKET	
J29	E15-0501-05	LED LAMP SOCKET	
J30	E15-0501-05	LED LAMP SOCKET	
J31	E15-0501-05	LED LAMP SOCKET	
J32	E15-0501-05	LED LAMP SOCKET	
J33	E15-0501-05	LED LAMP SOCKET	
J34	E15-0501-05	LED LAMP SOCKET	
J35	E15-0501-05	LED LAMP SOCKET	
J36	E15-0501-05	LED LAMP SOCKET	
P1	E40-7472-05	CONNECTOR	14P
P2	E40-7491-05	CONNECTOR	50P
P3	E40-3249-05	CONNECTOR	5P
Q1	2SC945(P)	TR. SI, NPN	
Q2	2SC945(P)	TR. SI, NPN	
Q3	2SC945(P)	TR. SI, NPN	
Q4	2SC945(P)	TR. SI, NPN	
Q5	2SC945(P)	TR. SI, NPN	
Q6	2SC945(P)	TR. SI, NPN	
Q7	2SC945(P)	TR. SI, NPN	

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Ref. No	Parts No.	Name & Description			
Q8	2SC945(P)	TR. SI, NPN			
Q9	2SC945(P)	TR. SI, NPN			
Q10	2SC945(P)	TR. SI, NPN			
Q11	2SC945(P)	TR. SI, NPN			
Q12	2SC945(P)	TR. SI, NPN			
Q13	2SC945(P)	TR. SI, NPN			
Q14	2SC945(P)	TR. SI, NPN			
Q15	2SC945(P)	TR. SI, NPN			
Q16	2SC945(P)	TR. SI, NPN			
Q17	2SC3402	TR. SI, NPN			
Q18	2SC3402	TR. SI, NPN			
Q19	2SC3402	TR. SI, NPN			
Q20	2SC3402	TR. SI, NPN			
R1	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R2	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R3	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R4	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R5	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R6	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R7	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R8	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R9	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R10	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R11	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R12	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R13	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R14	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R15	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R16	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W
R17	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R18	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R19	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R20	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R21	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R22	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R23	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R24	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R25	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R26	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R30	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R31	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R32	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R33	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R34	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R35	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R36	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R37	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R38	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R39	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R40	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R41	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R42	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R43	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R44	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R45	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W

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Ref. No	Parts No.	Name & Description			
R46	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R47	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R48	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R49	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R50	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R51	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R52	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R53	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R54	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R55	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R56	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R58	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R59	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R60	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R61	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R62	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R63	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R64	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R65	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R66	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R67	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R68	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R69	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R70	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R71	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R72	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R73	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R74	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R75	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R76	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R77	RN14BK2C3000F	RES. METAL FILM	300	1%	1/6W
R78	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R79	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R80	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R81	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R82	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R83	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R84	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R85	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R86	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R87	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R88	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R89	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R90	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R91	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
U1	MC14495P1	IC			
U2	MC14495P1	IC			
U3	MC14495P1	IC			
U4	MC14495P1	IC			
U5	MC14495P1	IC			
U6	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U7	MC14495P1	IC			
U8	MC14495P1	IC			
U9	MC14495P1	IC			
U10	MC14495P1	IC			

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PARTS LIST
 SG-7200/SG-7130

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Ref. No	Parts No.	Name & Description			
U11	MC14495P1	IC			
U12	MC14495P1	IC			
U13	MC14495P1	IC			
U14	MC14495P1	IC			
U15	MC14513BCP	IC, BCD TO 7-SEGMENT LATCH/DECO./DRIVER			
U16	MC14495P1	IC			
U17	MC14495P1	IC			
U18	MC14495P1	IC			
U19	CD4572BE	IC, HEX GATE			
U20	HD74HC4515P	IC			
U21	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U22	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U23	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U24	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U25	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U26	TC74HC574AP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)			
U27	TC74HC174AP	IC, HEX D FLIP-FLOP WITH CLEAR			
U28	TC74HC174AP	IC, HEX D FLIP-FLOP WITH CLEAR			
CONNECTION UNIT (X67-1260-00)					
	J73-0530-03	PCB (UNMOUNTED)			
J1	E40-7476-05	CONNECTOR	100P		
P1	E40-7472-05	CONNECTOR	14P		
P2	E40-7472-05	CONNECTOR	14P		
P3	E40-7493-05	CONNECTOR	10P		
MOTHER BOARD UNIT (X67-1270-00)					
	J73-0531-12	PCB (UNMOUNTED)			
C1	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C2	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C3	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C4	C90-4519-05	CAP. ELECTRO	470u		16V
C5	C90-4519-05	CAP. ELECTRO	470u		16V
C6	C90-4519-05	CAP. ELECTRO	470u		16V
C7	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C8	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C9	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C10	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C11	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C12	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C23	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C24	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C26	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
DS1	B30-3021-05	LED: GREEN			
DS2	B30-3021-05	LED: GREEN			
DS3	B30-3021-05	LED: GREEN			
DS4	B30-3021-05	LED: GREEN			
DS5	B30-3022-05	LED: RED			
DS8	B30-3022-05	LED: RED			
DS9	B30-3022-05	LED: RED			
DS10	B30-3022-05	LED: RED			
DS11	B30-3022-05	LED: RED			
J3	E40-7494-05	CONNECTOR	20P		
J4	E40-7494-05	CONNECTOR	20P		

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Ref. No	Parts No.	Name & Description			
J5	E40-7494-05	CONNECTOR	20P		
J6	E40-7494-05	CONNECTOR	20P		
J7	E40-7494-05	CONNECTOR	20P		
J8	E40-7494-05	CONNECTOR	20P		
J9	E40-7494-05	CONNECTOR	20P		
P1	E40-3268-05	CONNECTOR	10P		
P4	E40-7874-05	BOARD CONNECTOR	11P		
P5	E40-7874-05	BOARD CONNECTOR	11P		
Q1	RN2403	TR. SI, PNP			
Q4	RN2403	TR. SI, PNP			
Q5	RN2403	TR. SI, PNP			
Q6	RN2403	TR. SI, PNP			
Q7	RN2403	TR. SI, PNP			
R1	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5p	1/10W
R2	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5p	1/10W
R3	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5p	1/10W
R6	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R7	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R8	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R9	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R10	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R11	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R12	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R13	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R14	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R15	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R16	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R17	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R18	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R19	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R20	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R21	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R22	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R23	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R24	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R25	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R26	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R27	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R28	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R29	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5p	1/10W
R30	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R31	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R32	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R33	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R34	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R35	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R36	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R37	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R38	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R39	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R40	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R41	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R42	R92-1650-05	JUMPER WIRE	0		
R43	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5p	1/10W
R44	RN73FH2A751D	RES. CHIP (2*1.25)	750	0.5p	1/10W

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R45	RN73FH2A751D	RES. CHIP (2*1.25)	750	0.5p	1/10W
R46	RN73FH2A302D	RES. CHIP (2*1.25)	3K	0.5P	1/10W
R47	RN73FH2A302D	RES. CHIP (2*1.25)	3K	0.5P	1/10W
R48	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5p	1/10W
R51	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5p	1/10W
R52	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5p	1/10W
R53	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5p	1/10W
R54	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5p	1/10W
R62	R92-1650-05	JUMPER WIRE	0		
R67	R92-1650-05	JUMPER WIRE	0		
R68	R92-1650-05	JUMPER WIRE	0		
R72	R92-1650-05	JUMPER WIRE	0		
R78	R92-1650-05	JUMPER WIRE	0		
R79	R92-1650-05	JUMPER WIRE	0		
R81	R92-1650-05	JUMPER WIRE	0		
U1	TC74HC14AF	IC, HEX SCHMITT INVERTER			
U2	TC74HC126AF	IC, QUAD BUS BUFFER (3-STATE)			
U3	TC74HC14AF	IC, HEX SCHMITT INVERTER			
U4	TC74HC74AF	IC, DUAL D-FLIP FLOP WITH PRESET AND CLEAR			
U5	TC74HC00AF	IC, QUAD 2-INPUT NAND GATE			
U6	TC4094BF	IC, 8-BIT SHIFT AND STORE BUS REGISTER			
U7	TC74HC139AF	IC, DUAL 2-TO-4 LINE DECODER			
U8	TC74HC238AF	IC, 3-TO-8 LINE DECODER			
U9	TC74HC238AF	IC, 3-TO-8 LINE DECODER			
U10	TC74HC238AF	IC, 3-TO-8 LINE DECODER			
U11	TC74HC14AF	IC, HEX SCHMITT INVERTER			
U12	TC74HC165AF	IC, 8-BIT PISO SHIFT REGISTER			
U13	TC74HC165AF	IC, 8-BIT PISO SHIFT REGISTER			
U17	SN75162BDW	IC			
CONNECTION UNIT (X67-1280-00)					
	J73-0530-03	PCB (UNMOUNTED)			
C1	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C2	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C3	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C4	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C5	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C6	C91-2650-05	CAP. PIERCED	100p	20%	50V
C7	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C8	C91-2650-05	CAP. PIERCED	100p	20%	50V
C9	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C14	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C15	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C16	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C17	C91-2650-05	CAP. PIERCED	100p	20%	50V
C18	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C19	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C20	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C21	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C22	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
C23	C91-2651-05	CAP. PIERCED	3300p	-20/80V	50V
J1	E40-7514-05	CONNECTOR	20P		
J2	E40-7514-05	CONNECTOR	20P		
L1	L40-2292-81	FERRI INDUCTOR	2.2uh		

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Ref. No	Parts No.	Name & Description	
L2	L40-2292-81	FERRI INDUCTOR	2.2uh
L3	L40-2292-81	FERRI INDUCTOR	2.2uh
L4	L40-2292-81	FERRI INDUCTOR	2.2uh
P1	E40-3260-05	CONNECTOR	2P
P2	E40-3246-05	CONNECTOR	2P
P3	E40-3249-05	CONNECTOR	5P
P4	E40-3249-05	CONNECTOR	5P
P6	E40-3249-05	CONNECTOR	5P
P7	E40-3246-05	CONNECTOR	2P
P8	E40-7493-05	CONNECTOR	10P

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Ref. No	-00	-01	-02	-03	-04	-05	-06	-07	Parts No.	Name & Description
CONNECTION UNIT (X67-1360)										
									J73-0530-03	PCB (UNMOUNTED)
									F10-2516-03	SHIELD PLATE
									J29-0533-04	BRACKET
									J32-1233-04	BOSS, HEX
									N67-2608-41	SCREW, SEMS PAN HD (M2.6*8)
C901									C91-2651-05	CAP. PIERCED 3300p -20/80% 50V
C902									C91-2651-05	CAP. PIERCED 3300p -20/80% 50V
C903	-								C91-2651-05	CAP. PIERCED 3300p -20/80% 50V
C904	-	-	-	-	-	-	-		C91-2651-05	CAP. PIERCED 3300p -20/80% 50V
C906	-	-	-	-	-	-	-		C91-2651-05	CAP. PIERCED 3300p -20/80% 50V
C908									C91-2651-05	CAP. PIERCED 3300p -20/80% 50V
C909									C91-2651-05	CAP. PIERCED 3300p -20/80% 50V
C910									C91-2651-05	CAP. PIERCED 3300p -20/80% 50V
C911									C91-2651-05	CAP. PIERCED 3300p -20/80% 50V
C914									C91-2650-05	CAP. PIERCED 100p 20% 50V
C915	-	-	-	-	-	-	-		C91-2650-05	CAP. PIERCED 100p 20% 50V
C916	-	-	-	-	-	-	-		C91-2650-05	CAP. PIERCED 100p 20% 50V
C917	-	-	-	-	-	-	-		C91-2650-05	CAP. PIERCED 100p 20% 50V
P901									E40-7503-05	CONNECTOR 20P

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POWER SUPPLY UNIT (X68-1780-00)		
	J73-0532-02	PCB (UNMOUNTED)
	F02-0526-14	RADIATION PLATE
	F02-0528-14	RADIATION PLATE
	F11-1501-03	SHIELD CASE
	F20-3038-04	INSULATOR
	F29-0531-05	INSURATING COVER
	N09-4508-04	SCREW, SEMS (M3*14)
	N67-3008-41	SCREW, SEMS PAN HD (M3*8)
C1	C91-2641-05	CAP. CERAMIC 0.1u 20% 250V
C2	C91-2641-05	CAP. CERAMIC 0.1u 20% 250V
C3	C91-2584-05	CAP. CERAMIC 1000p 10% 400V
C4	C91-2584-05	CAP. CERAMIC 1000p 10% 400V
C5	C90-4512-05	CAP. ELECTRO 47u 20% 200V
C6	C90-4512-05	CAP. ELECTRO 47u 20% 200V
C8	C90-4524-05	CAP. ELECTRO 100u 20% 35V
C9	CK73FF1E104ZMU	CAP. CHIP (2*1.25) 0.1u -20/80% 25V
C10	CK73FF1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C12	CK73FF1E104ZMU	CAP. CHIP (2*1.25) 0.1u -20/80% 25V
C13	CK73FR1H472KMU	CAP. CHIP (2*1.25) 4700p 10% 50V
C14	C90-4523-05	CAP. ELECTRO 1u 20% 100V
C15	C91-2641-05	CAP. CERAMIC 0.1u 20% 250V
C16	C90-4800-05	CAP. ELECTRO 270u 20% 25V
C18	C90-4800-05	CAP. ELECTRO 270u 20% 25V
C19	C90-4511-05	CAP. ELECTRO 1000u 20% 16V
C20	C90-4511-05	CAP. ELECTRO 1000u 20% 16V
C21	C90-4511-05	CAP. ELECTRO 1000u 20% 16V
C22	CC45FCH2H101J	CAP. CERAMIC 100p 5% 500V
C23	CK73FF1H224Z	CAP. CHIP (2x1.25) 0.22u -20/80% 50V
D1	W04A	DIODE, BRIDGE
D2	S5688J	DIODE
D3	S5688J	DIODE
D4	S5688J	DIODE
D5	ERB91-02	DIODE
D6	RD22EB	DIODE, ZENER
D7	DFG1C8	DIODE
D9	ERB91-02	DIODE
D10	ERB91-02	DIODE
D11	SB50-09J	DIODE
D12	RD5.6JSB3	DIODE, ZENER
P1	E40-7497-05	CONNECTOR 3P
P2	E40-3263-05	CONNECTOR 5P
P3	E40-3260-05	CONNECTOR 2P
Q1	2SK1808	FET
R1	R92-1666-05	RESISTOR 47K 2W
R2	RN73FH2A122D	RES. CHIP (2*1.25) 1.2K 0.5p 1/10W
R3	RN73FH2A471D	RES. CHIP (2*1.25) 470 0.5p 1/10W
R4	RN73FH2A100D	RES. CHIP (2*1.25) 10 0.5p 1/10W
R5	RN73FH2A221D	RES. CHIP (2*1.25) 220 0.5p 1/10W
R6	RD14DB2HR22J	RES. CARBON FILM 0.22 5% 1/2W
R7	RN14BK2H2202F	RES. METAL FILM 22K 1% 1/2W

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Ref. No	Parts No.	Name & Description			
R8	RN14BK2C1000F	RES. METAL FILM	100	1%	1/6W
R9	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5p	1/10W
R10	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5p	1/10W
T1	L33-0837-05	CHOKE COIL			
T2	L33-0837-05	CHOKE COIL			
T3	L19-0443-05	TRANSFORMER			
T5	L33-0831-05	CHOKE COIL			
T6	L33-0831-05	CHOKE COIL			
T7	L33-0831-05	CHOKE COIL			
U1	FA5311S	IC, REGULATOR			
U2	TLP521-1	IC, PHOTO COUPLER			
POWER SUPPLY UNIT (X68-1790-00)					
	J73-0532-02	PCB (UNMOUNTED)			
	F02-0527-04	HEAT SINK			
	J19-1686-04	HOLDER			
	N32-3010-41	SCREW FLAT HD (M3*10)			
	N67-3006-41	SCREW, SEMS PAN HD (M3*6)			
C1	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C2	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C3	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C4	C90-4519-05	CAP. ELECTRO	470u	20%	16V
C5	C90-4519-05	CAP. ELECTRO	470u	20%	16V
C6	C90-4519-05	CAP. ELECTRO	470u	20%	16V
C7	C90-4519-05	CAP. ELECTRO	470u	20%	16V
C8	C90-4518-05	CAP. ELECTRO	100u	20%	16V
D1	RD13JS	DIODE, ZENER			
D2	RD13JS	DIODE, ZENER			
D3	1SS270	DIODE			
D4	RD5.6JS	DIODE, ZENER			
P1	E40-3249-05	CONNECTOR	5P		
P2	E40-3249-05	CONNECTOR	5P		
P3	E40-3246-05	CONNECTOR	2P		
P4	E40-3246-05	CONNECTOR	2P		
Q1	2SA1742(L)	TR. SI, PNP			
Q2	2SA1742(L)	TR. SI, PNP			
Q3	2SA1742(L)	TR. SI, PNP			
Q4	2SD2531	TR. SI, NPN			
R1	R92-1646-05	RESISTOR	0.1		1/6W
R2	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R3	RN14BK2C3300F	RES. METAL FILM	330	1%	1/6W
R4	RN14BK2C1000F	RES. METAL FILM	100	1%	1/6W
R5	RN14BK2C5101F	RES. METAL FILM	5.1K	1%	1/6W
R6	RN14BK2C1502F	RES. METAL FILM	15K	1%	1/6W
R7	RN14BK2C3300F	RES. METAL FILM	330	1%	1/6W
R8	RN14BK2C1000F	RES. METAL FILM	100	1%	1/6W
R9	R92-1646-05	RESISTOR	0.1		1/6W
R10	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R11	RN14BK2C1502F	RES. METAL FILM	15K	1%	1/6W
R12	RN14BK2C5601F	RES. METAL FILM	5.6K	1%	1/6W
R13	R92-1646-05	RESISTOR	0.1		1/6W

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Ref. No	Parts No.	Name & Description			
R14	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R15	RN14BK2C3300F	RES. METAL FILM	330	1%	1/6W
R16	RN14BK2C5601F	RES. METAL FILM	5.6K	1%	1/6W
R17	RN14BK2C3300F	RES. METAL FILM	330	1%	1/6W
R18	R92-1646-05	RESISTOR	0.1		1/6W
R19	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R20	RN14BK2C1502F	RES. METAL FILM	15K	1%	1/6W
R21	RN14BK2C1502F	RES. METAL FILM	15K	1%	1/6W
R22	RN14BK2C8201F	RES. METAL FILM	8.2K	1%	1/6W
R23	RN14BK2C5601F	RES. METAL FILM	5.6K	1%	1/6W
R24	RN14BK2C3300F	RES. METAL FILM	330	1%	1/6W
R25	RN14BK2C3300F	RES. METAL FILM	330	1%	1/6W
U1	NJM4559D	IC, DUAL OP AMP			
U2	NJM4559D	IC, DUAL OP AMP			
GENERATOR UNIT (X71-1250-00)					
	J73-0435-12	PCB (UNMOUNTED)			
	F10-2518-04	SHIELD PLATE			
	F10-2521-04	SHIELD PLATE			
	F11-1502-03	SHIELD CASE			
	N19-0747-04	WASHER			
C1	CC73FCH1H470JM	CAP. CERAMIC	47p	5%	50V
C2	C05-0492-05	CAP. TRIMMER	10p		
C3	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C4	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C5	CK73FR1H223KMU	CAP. CHIP (2*1.25)	0.022u	10%	50V
C6	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C7	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C8	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C9	CC73FCH1H330JM	CAP. CHIP (2*1.25)	33p	5%	50V
C11	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C12	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C13	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C14	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C16	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C17	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C18	C91-2652-05	CAP. FILM	1u	10%	100V
C19	CC73FCH1H330JM	CAP. CHIP (2*1.25)	33p	5%	50V
C20	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C21	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C22	C90-4517-05	CAP. ELECTRO	10u	20%	35V
C23	CK73FF1H473ZMU	CAP. CERAMIC	0.047u	-20/80%	50V
C24	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C25	CC73FCH1H151JM	CAP. CHIP (2*1.25)	150p	5%	50V
C26	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C27	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C28	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C29	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C47	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C48	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C49	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C50	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C51	C90-4518-05	CAP. ELECTRO	100u	20%	16V

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PARTS LIST SG-7200/SG-7130

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Ref. No	Parts No.	Name & Description			
C52	C90-4518-05	CAP. ELECTRO	100u	20%	16V
D1	1SS184	DIODE			
D2	1SV242	DIODE			
D3	1SS184	DIODE			
D4	1SS184	DIODE			
D5	1SS226	DIODE			
D6	ND411G-1	DIODE			
D7	1SS226	DIODE			
D10	HSM88S	DIODE			
D11	HSM88S	DIODE			
D13	1SS226	DIODE			
D14	1SS226	DIODE			
D17	RD13M(B1)	DIODE, ZENER			
J1	E04-0285-05	RF COAXIAL CONNECTOR			
J2	E04-0285-05	RF COAXIAL CONNECTOR			
J3	E04-0285-05	RF COAXIAL CONNECTOR			
L1	L33-0834-05	FERRI INDUCTOR	4.7uH	10%	
L2	L33-0845-05	FERRI INDUCTOR	0.22uH	10%	
L3	L33-0834-05	FERRI INDUCTOR	4.7uH	10%	
L8	L40-1001-81	FERRI INDUCTOR	10uH	10%	
L9	L40-1011-81	FERRI INDUCTOR	100uH	10%	
L10	L40-1011-81	FERRI INDUCTOR	100uH	10%	
L11	L40-2292-81	FERRI INDUCTOR	2.2uH	20%	
L12	L40-1011-81	FERRI INDUCTOR	100uH	10%	
L13	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L14	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L15	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L16	L33-0835-05	FERRI INDUCTOR	100uH	10%	
Q1	2SC2712	TR. SI, NPN			
Q2	2SC3098	TR. SI, NPN			
Q3	2SA1162(O)	TR. SI, PNP			
Q4	2SC2712	TR. SI, NPN			
R1	RN73FH2A270D	RES. CHIP (2*1.25)	27	0.5P	1/10W
R2	R92-1693-05	RESISTOR	910	5%	1/8W
R3	R92-1650-05	JUMPER WIRE	0		
R4	RN73FH2A181D	RES. CHIP (2*1.25)	180	0.5P	1/10W
R5	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R6	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R7	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
R8	RN73FH2A151D	RES. CHIP (2*1.25)	150	0.5P	1/10W
R9	RN14BK2C68R0F	RES. METAL FILM	68	1%	1/6W
R10	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R11	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R12	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R13	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R14	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R15	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
R16	RN73FH2A121D	RES. CHIP (2*1.25)	120	0.5P	1/10W
R17	RN73FH2A181D	RES. CHIP (2*1.25)	180	0.5P	1/10W
R18	RN73FH2A180D	RES. CHIP (2*1.25)	18	0.5P	1/10W
R19	RN73FH2A271D	RES. CHIP (2*1.25)	270	0.5P	1/10W
R20	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W

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* New Parts

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Ref. No	Parts No.	Name & Description			
R21	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R22	RN73FH2A334D	RES. CHIP (2*1.25)	330K	0.5P	1/10W
R23	RN73FH2A334D	RES. CHIP (2*1.25)	330K	0.5P	1/10W
R24	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R25	RN73FH2A474D	RES. CHIP (2*1.25)	470K	0.5P	1/10W
R26	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W
R27	R32-0844-05	RES. SEMI FIXED	20K		
R28	RN73FH2A221D	RES. CHIP (2*1.25)	220	0.5P	1/10W
R29	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R30	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R31	RN73FH2A334D	RES. CHIP (2*1.25)	330K	0.5P	1/10W
R32	RN73FH2A220D	RES. CHIP (2*1.25)	22	0.5P	1/10W
R33	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R34	RN73FH2A334D	RES. CHIP (2*1.25)	330K	0.5P	1/10W
R35	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W
R36	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W
R37	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W
R38	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R39	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R40	RN73FH2A750D	RES. CHIP (2*1.25)	75	0.5P	1/10W
R41	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R42	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R43	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R44	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R45	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R46	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R47	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R48	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R49	RN73FH2A223D	RES. CHIP (2*1.25)	22K	0.5P	1/10W
R51	R92-1693-05	RESISTOR	910	5%	1/8W
TP4	E23-1512-05	TEST TERMINAL			
U1	MC10138L	IC, BI-QUINARY COUNTER			
U2	TC74HC390AF	IC, DUAL DECADE COUNTER			
U3	MC10113L	IC, QUAD EXCLUSIVE OR GATE			
U4	TL072CPS	IC, DUAL OP AMP			
U5	TC4094BF	IC, 8-BIT SHIFT AND STORE BUS REGISTER			
U6	X9C103S	IC, DIGI. CONTROL POTENTIOMETER			
U7	TC4584BF	IC, HEX SCHMITT TRIGGER			
Y1	L77-2609-05	CRYSTAL RESONATOR			
OSCILLATOR UNIT (X71-1260-00)					
	J73-0533-02	PCB (UNMOUNTED)			
	F10-2518-04	SHIELD PLATE			
	F11-1503-13	SHIELD CASE			
	N19-0747-04	WASHER (M4)			
C1	CC73FCH1H560JM	CAP. CHIP (2*1.25)	56p	5%	50V
C2	CC73FCH1H390JM	CAP. CHIP (2*1.25)	39p	5%	50V
C3	CC73FCH1H060DM	CAP. CHIP (2*1.25)	6p	0.5P	50V
C4	CC73FCH1H060DM	CAP. CHIP (2*1.25)	6p	0.5P	50V
C5	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C6	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C7	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C8	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V

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Ref. No	Parts No.	Name & Description			
C9	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C10	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C11	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C12	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C13	CC73FCH1H560JM	CAP. CHIP (2*1.25)	56p	5%	50V
C14	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C15	CC73FCH1H060DM	CAP. CHIP (2*1.25)	6p	0.5P	50V
C16	CC73FCH1H020CM	CAP. CHIP (2*1.25)	2p	0.25P	50V
C17	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C18	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C19	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C20	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C21	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C22	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C23	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C24	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C25	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C26	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C27	CC73FCH1H020CM	CAP. CHIP (2*1.25)	2p	0.25P	50V
C28	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C29	CC73FCH1H020CM	CAP. CHIP (2*1.25)	2p	0.25P	50V
C30	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C31	CK73FR1H222KMU	CAP. CHIP (2*1.25)	2200p	10%	50V
C32	CK73FR1H222KMU	CAP. CHIP (2*1.25)	2200p	10%	50V
C33	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C34	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C35	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C36	CK73FR1H222KMU	CAP. CHIP (2*1.25)	2200p	10%	50V
C37	CK73FR1H222KMU	CAP. CHIP (2*1.25)	2200p	10%	50V
C38	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C39	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C40	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C41	CK73FR1H222KMU	CAP. CHIP (2*1.25)	2200p	10%	50V
C42	CK73FR1H222KMU	CAP. CHIP (2*1.25)	2200p	10%	50V
C43	CK73FR1H222KMU	CAP. CHIP (2*1.25)	2200p	10%	50V
C44	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C45	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C46	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C47	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C48	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100P	5%	50V
C49	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C50	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C51	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C52	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C59	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C60	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C61	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C62	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C63	C90-4518-05	CAP. ELECTREO	100u		16V
C64	C90-4518-05	CAP. ELECTREO	100u		16V
C65	C90-4518-05	CAP. ELECTREO	100u		16V
D1	1SV215	DIODE			
D2	1SV215	DIODE			
D3	HVM14S	DIODE			
D4	1SV230	DIODE			

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Ref. No	Parts No.	Name & Description			
D5	1SV230	DIODE			
D7	HVM14S	DIODE			
D8	HVM14S	DIODE			
D9	HVM14S	DIODE			
D10	HVM14S	DIODE			
D11	HVM14S	DIODE			
J1	E04-0287-05	RF COAXIAL CONNECTOR			
J2	E04-0287-05	RF COAXIAL CONNECTOR			
J3	E04-0285-05	RF COAXIAL CONNECTOR			
L3	L40-1011-81	FERRI UNDUCTOR	100uH	10%	
L4	L40-1092-81	FERRI UNDUCTOR	1uH	20%	
L5	L39-1402-05	TOROIDAL COIL	20uH		
L7	L40-2292-81	FERRI UNDUCTOR	2.2uH	20%	
L8	L39-1402-05	TOROIDAL COIL	20uH		
L9	L40-1001-81	FERRI UNDUCTOR	10uH	10%	
L10	L40-1092-81	FERRI UNDUCTOR	1uH	20%	
L13	L40-1011-81	FERRI UNDUCTOR	100uH	10%	
L14	L39-1402-05	TOROIDAL COIL	20uH		
L19	L39-1402-05	TOROIDAL COIL	20uH		
L22	L40-1011-81	FERRI UNDUCTOR	100uH	10%	
L23	L40-1011-81	FERRI UNDUCTOR	100uH	10%	
L24	L40-1011-81	FERRI UNDUCTOR	100uH	10%	
L25	L40-1011-81	FERRI UNDUCTOR	100uH	10%	
L26	L40-1011-81	FERRI UNDUCTOR	100uH	10%	
L27	L39-1402-05	TOROIDAL COIL	20uH		
L35	L39-1402-05	TOROIDAL COIL	20uH		
L36	L33-0835-05	FERRI UNDUCTOR	100uH	10%	
L37	L33-0835-05	FERRI UNDUCTOR	100uH	10%	
L38	L33-0835-05	FERRI UNDUCTOR	100uH	10%	
L39	L40-1011-81	FERRI UNDUCTOR	100uH	10%	
L40	L40-1011-81	FERRI UNDUCTOR	100uH	10%	
Q1	2SC4955	TR. SI, NPN			
Q2	RN2403	TR. SI, PNP			
Q3	RN2403	TR. SI, PNP			
Q4	2SC4955	TR. SI, NPN			
Q5	RN2403	TR. SI, PNP			
Q6	RN1403	TR. SI, NPN			
Q7	RN2403	TR. SI, PNP			
Q8	RN1403	TR. SI, NPN			
Q9	RN2403	TR. SI, PNP			
Q10	RN1403	TR. SI, NPN			
Q11	RN2403	TR. SI, PNP			
Q12	RN1403	TR. SI, NPN			
R1	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R2	RN73FH2A510D	RES. CHIP (2*1.25)	51	0.5P	1/10W
R3	RN73FH2A271D	RES. CHIP (2*1.25)	270	0.5P	1/10W
R4	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R5	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R6	RN73FH2A301D	RES. CHIP (2*1.25)	300	0.5P	1/10W
R7	RN73FH2A621D	RES. CHIP (2*1.25)	620	0.5P	1/10W
R8	RN73FH2A620D	RES. CHIP (2*1.25)	62	0.5P	1/10W
R9	RN73FH2A271D	RES. CHIP (2*1.25)	270	0.5P	1/10W
R10	RN73FH2A620D	RES. CHIP (2*1.25)	62	0.5P	1/10W

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PARTS LIST SG-7200/SG-7130

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Ref. No	Parts No.	Name & Description			
R11	RN73FH2A240D	RES. CHIP (2*1.25)	24	0.5P	1/10W
R12	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R13	RN73FH2A510D	RES. CHIP (2*1.25)	51	0.5P	1/10W
R14	RN73FH2A271D	RES. CHIP (2*1.25)	270	0.5P	1/10W
R15	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R16	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R17	RN73FH2A621D	RES. CHIP (2*1.25)	620	0.5P	1/10W
R18	RN73FH2A301D	RES. CHIP (2*1.25)	300	0.5P	1/10W
R19	RN73FH2A680D	RES. CHIP (2*1.25)	68	0.5P	1/10W
R20	RN73FH2A181D	RES. CHIP (2*1.25)	180	0.5P	1/10W
R21	RN73FH2A680D	RES. CHIP (2*1.25)	68	0.5P	1/10W
R22	RN73HF2A240D	RES. CHIP (2*1.25)	24	0.5P	1/10W
R23	RN73FH2A221D	RES. CHIP (2*1.25)	220	0.5P	1/10W
R24	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R25	RN73FH2A221D	RES. CHIP (2*1.25)	220	0.5P	1/10W
R26	RN73FH2A221D	RES. CHIP (2*1.25)	220	0.5P	1/10W
R27	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R28	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R29	RN73FH2A131D	RES. CHIP (2*1.25)	130	0.5P	1/10W
R30	RN73FH2A430D	RES. CHIP (2*1.25)	43	0.5P	1/10W
R31	RN73FH2A131D	RES. CHIP (2*1.25)	130	0.5P	1/10W
R32	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R35	RN73FH2A221D	RES. CHIP (2*1.25)	220	0.5P	1/10W
R37	RN73FH2A121D	RES. CHIP (2*1.25)	120	0.5P	1/10W
R38	RN73FH2A510D	RES. CHIP (2*1.25)	51	0.5P	1/10W
R39	RN73FH2A121D	RES. CHIP (2*1.25)	120	0.5P	1/10W
R40	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R41	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R42	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R43	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R44	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R45	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R46	RN73HF2A240D	RES. CHIP (2*1.25)	24	0.5P	1/10W
R47	RN73FH2A221D	RES. CHIP (2*1.25)	220	0.5P	1/10W
R48	RN73HF2A240D	RES. CHIP (2*1.25)	24	0.5P	1/10W
R51	RN73HF2A240D	RES. CHIP (2*1.25)	24	0.5P	1/10W
U1	UPC2708T	IC, LOW NOISE AMP			
U2	UPB584G	IC, HIGH SPEED PRESCALER			
U3	UPC2708T	IC, LOW NOISE AMP			
U4	UPB584G	IC, HIGH SPEED PRESCALER			
U5	UPC2708T	IC, LOW NOISE AMP			
U6	UPB584G	IC, HIGH SPEED PRESCALER			
U7	UPC2711-E3	IC, LOW NOISE AMP			
U8	UPC2711-E3	IC, LOW NOISE AMP			
U10	TC4584BF	IC, HEX SCHMITT TRIGGER			
U11	TC74HC4094AF	IC, 8-BIT SIPO SHIFT REGISTER/LACH (3-STATE)			
OUTPUT UNIT (X72-1220-00)					
	J73-0530-03	PCB (UNMOUNTED)			
C1	C91-1315-05	CAP. CERAMIC	0.1u	-20/80%	50V
C2	C91-1315-05	CAP. CERAMIC	0.1u	-20/80%	50V
DS1	B30-3034-05	LED; GREEN			
P1	E40-3249-05	CONNECTOR			5P

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Ref. No	Parts No.	Name & Description			
R1	RN14BK2C1500F	RES. METAL FILM	150	1%	1/6W
R3	RN14BK2C2200F	RES. METAL FILM	220	1%	1/6W
AMPLIFIER UNIT (X73-2100-00)					
	J73-0435-12	PCB (UNMOUNTED)			
	E23-1531-05	TERMINAL; SCREW			
	F10-2549-04	SHIELD PLATE			
	F11-1504-33	SHIELD CASE			
	G02-0617-14	SPRING; LEAF			
	N30-3014-41	SCREW, PAN HD (M3*14)			
C1	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C2	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C3	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C4	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C5	CC73FCH1H020CM	CAP. CHIP (2*1.25)	2p	0.25P	50V
C7	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C8	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C9	CC73FCH1H151JM	CAP. CHIP (2*1.25)	150p	5%	50V
C10	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C19	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C20	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C21	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C22	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C24	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C25	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C26	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C27	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C28	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C29	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C30	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C31	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C33	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C34	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C36	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C38	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C39	CK73FR1H472KMU	CAP. CHIP (2*1.25)	4700p	10%	50V
C40	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C41	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C42	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C43	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C44	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C100	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C101	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C102	C90-4518-05	CAP. ELECTRO	100u	20%	16V
D1	1SS184	DIODE			
D2	1SS184	DIODE			
D3	1SS184	DIODE			
D4	1SS184	DIODE			
D5	HVM14S	DIODE			
D6	HVM14S	DIODE			
D7	HVM14S	DIODE			
D8	1SV242	DIODE			

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D9	1SV242	DIODE			
D10	HVM14S	DIODE			
D11	HVM14S	DIODE			
D12	1SV230	DIODE			
D13	1SV230	DIODE			
D14	HVM14S	DIODE			
D15	HVM14S	DIODE			
D16	HVM15	DIODE			
D17	HVM15	DIODE			
D18	HVM14S	DIODE			
D19	HVM14S	DIODE			
D20	HVM15	DIODE			
D21	HVM15	DIODE			
D22	HVM14S	DIODE			
D23	MA111	DIODE			
D26	HSU88	DIODE			
D27	1SS226	DIODE			
D28	1SS226	DIODE			
D29	1SS226	DIODE			
D30	1SS226	DIODE			
D32	1SS181	DIODE			
D33	RD13M(B1)	DIODE, ZENER			
D34	RD5.1M(B2)	DIODE, ZENER			
DS1	B30-3029-05	LED; RED			
J1	E04-0287-05	RF COAXIAL CONNECTOR			
J3	E40-7533-05	CONNECTOR	20-8P		
JP1	E68-0617-05	SHORT CONNECTOR			
K1	S76-0653-05	RELAY			
L1	L40-2292-81	FERRI INDUCTOR	2.2uH	20%	
L2	L39-1403-05	TOROIDAL COIL			
L3	L40-3972-80	FERRI INDUCTOR	39NH	20%	
L4	L40-5671-80	FERRI INDUCTOR	56NH	10%	
L5	L40-3972-80	FERRI INDUCTOR	39NH	20%	
L6	L40-3982-81	FERRI INDUCTOR	390NH	20%	
L10	L40-1071-80	FERRI INDUCTOR	10NH	10%	
L11	L40-1872-80	FERRI INDUCTOR	18NH	20%	
L12	L40-1071-80	FERRI INDUCTOR	10NH	20%	
L13	L40-3982-81	FERRI INDUCTOR	390NH	20%	
L18	L40-1071-80	FERRI INDUCTOR	10NH	10%	
L20	L39-1403-05	TOROIDAL COIL			
L27	L39-1403-05	TOROIDAL COIL			
L31	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L32	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L33	L33-0835-05	FERRI INDUCTOR	100uH	10%	
Q1	RN1403	TR. SI, NPN			
Q2	RN1403	TR. SI, NPN			
Q3	RN1403	TR. SI, NPN			
Q4	RN1403	TR. SI, NPN			
Q5	2SA1202(Y)	TR. SI, PNP			
Q6	2SA1162(O)	TR. SI, PNP			
Q7	2SA1162(O)	TR. SI, PNP			
Q8	2SA1162(O)	TR. SI, PNP			
Q9	2SA1162(O)	TR. SI, PNP			
Q10	2SA1202(Y)	TR. SI, PNP			

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Ref. No	Parts No.	Name & Description			
Q11	2SA1162(O)	TR. SI, PNP			
Q12	2SA1162(O)	TR. SI, PNP			
Q13	2SA1202(Y)	TR. SI, PNP			
Q14	2SA1162(O)	TR. SI, PNP			
Q15	2SC2712	TR. SI, NPN			
Q16	2SA1162(O)	TR. SI, PNP			
Q17	RN1403	TR. SI, NPN			
Q18	RN1403	TR. SI, NPN			
Q19	2SA1202(Y)	TR. SI, PNP			
R1	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R2	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R3	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R4	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R5	RN73FH2A204D	RES. CHIP (2*1.25)	200K	0.5P	1/10W
R8	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R9	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R10	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R11	RN73FH2A363D	RES. CHIP (2*1.25)	36K	0.5P	1/10W
R12	RN73FH2A153D	RES. CHIP (2*1.25)	15K	0.5P	1/10W
R13	R12-0536-05	RES. SEMI FIXED	500	20%	
R14	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
R15	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R16	RN73FH2A223D	RES. CHIP (2*1.25)	22K	0.5P	1/10W
R17	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R18	RN73FH2A223D	RES. CHIP (2*1.25)	22K	0.5P	1/10W
R19	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R20	RN73FH2A223D	RES. CHIP (2*1.25)	22K	0.5P	1/10W
R21	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R22	RN73FH2A223D	RES. CHIP (2*1.25)	22K	0.5P	1/10W
R23	RN73FH2A181D	RES. CHIP (2*1.25)	180	0.5P	1/10W
R24	RN73FH2A300D	RES. CHIP (2*1.25)	30	0.5P	1/10W
R25	RN73FH2A181D	RES. CHIP (2*1.25)	180	0.5P	1/10W
R26	RN73FH2A153D	RES. CHIP (2*1.25)	15K	0.5P	1/10W
R27	RN73FH2A221D	RES. CHIP (2*1.25)	220	0.5P	1/10W
R28	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R29	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R30	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R31	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R32	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R33	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R34	RN73FH2A301D	RES. CHIP (2*1.25)	300	0.5P	1/10W
R35	RN73FH2A180D	RES. CHIP (2*1.25)	18	0.5P	1/10W
R36	RN73FH2A301D	RES. CHIP (2*1.25)	300	0.5P	1/10W
R37	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R38	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R39	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R40	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R41	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R42	RN73FH2A203D	RES. CHIP (2*1.25)	20K	0.5P	1/10W
R43	R12-3518-05	RES. SEMI FIXED	10K	20%	
R44	RN73FH2A273D	RES. CHIP (2*1.25)	27K	0.5P	1/10W
R45	RN73FH2A203D	RES. CHIP (2*1.25)	20K	0.5P	1/10W
R46	R12-3518-05	RES. SEMI FIXED	10K	0.5P	1/10W
R47	RN73FH2A273D	RES. CHIP (2*1.25)	27K	0.5P	1/10W

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PARTS LIST
SG-7200/SG-7130

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R48	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R50	RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5P	1/10W
R53	RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5P	1/10W
R54	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R55	RN73FH2A622D	RES. CHIP (2*1.25)	6.2K	0.5P	1/10W
R56	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
R58	R12-3518-05	RES. SEMI FIXED	10K	0.5P	1/10W
R59	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R60	RN73FH2A150D	RES. CHIP (2*1.25)	15	0.5P	1/10W
R62	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R66	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R68	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5P	1/10W
R69	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R70	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R71	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R73	RN73FH2A512D	RES. CHIP (2*1.25)	5.1K	0.5P	1/10W
R74	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R75	RN73FH2A511D	RES. CHIP (2*1.25)	510	0.5P	1/10W
R76	RN73FH2A751D	RES. CHIP (2*1.25)	750	0.5P	1/10W
R77	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R78	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5P	1/10W
R79	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R80	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R81	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R84	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R85	RN73FH2A150D	RES. CHIP (2*1.25)	15	0.5P	1/10W
R100	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R101	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R102	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R103	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R104	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R105	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R106	RN73FH2A153D	RES. CHIP (2*1.25)	15K	0.5P	1/10W
R107	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
TP2	E40-7501-05	CONNECTOR	3P		
U1	TC4094BF	IC, 8-BIT SHIFT AND STORE BUS REGISTER			
U2	NJM4559M	IC, DUAL OP AMP			
U3	TL317PS	IC, 3-TERMINAL VOLTAGE REGULATOR			
U4	TL317PS	IC, 3-TERMINAL VOLTAGE REGULATOR			
U5	NJM4559M	IC, DUAL OP AMP			
U6	TC4584BF	IC, HEX SCHMITT TRIGGER			
U7	DAC08ED	IC, 8-BIT D/A CONVERTER			
U8	TC4094BF	IC, 8-BIT SHIFT AND STORE BUS REGISTER			
AMPLIFIER UNIT (X73-2110-00)					
	J73-0437-14	PCB (UNMOUNTED)			
	F10-2517-04	SHIELD PLATE			
	F10-2522-13	SHIELD PLATE			
C1	CK73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C2	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C3	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C4	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C5	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V

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Ref. No	Parts No.	Name & Description			
C6	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C7	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C9	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C10	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C11	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C12	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C13	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
D1	HSU88	DIODE			
D2	1SS181	DIODE			
D3	1SS181	DIODE			
D4	1SS181	DIODE			
J1	E04-0287-05	RE COAXIAL CONNECTOR			
L1	L40-5671-80	FERRI INDUCTOR	56NH	10%	
L2	L39-1403-05	TOROIDAL COIL			
L3	L40-1071-80	FERRI INDUCTOR	10NH	10%	
L4	L39-1403-05	TOROIDAL COIL			
L6	L39-1403-05	TOROIDAL COIL			
L7	L39-1403-05	TOROIDAL COIL			
L8	L39-1403-05	TOROIDAL COIL			
L9	L40-4761-77	FERRI INDUCTOR	4.7NH	10%	
P1	E40-7480-05	CONNECTOR	20P		
Q1	FHX35LG	FET			
Q2	FHX35LG	FET			
Q3	MGF1801B	FET			
R1	RN73FH2A221D	RES. CHIP (2*1.25)	220	0.5P	1/10W
R2	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R3	RN73FH2A750D	RES. CHIP (2*1.25)	75	0.5P	1/10W
R4	RN73FH2A390D	RES. CHIP (2*1.25)	39	0.5P	1/10W
R5	RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5P	1/10W
R6	RN73FH2A820D	RES. CHIP (2*1.25)	82	0.5P	1/10W
R7	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R8	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R9	R32-0883-05	SEMI FIXD VARIABLE RESISTOR	220	30%	1/10W
ATTENUATOR UNIT (X75-1230-00)					
	J73-0533-02	PCB (UNMOUNTED)			
	J19-1687-03	HOLDER			
	N32-3006-41	SCREW FLAT HD (M3*6)			
ATT1	W02-2307-05	ATTENUATOR UNIT			
C1	CK73FF1E104MU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C2	CK73FF1E104MU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C3	CK73FF1E104MU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C89	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C90	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C91	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C92	C90-4518-05	CAP. ELECTRO	100u	20%	16V
D1	1SS181	DIODE			
DS1	B30-3029-05	LED; RED			
L1	L33-0839-05	FERRI INDUCTOR	10uH	10%	
L2	L33-0839-05	FERRI INDUCTOR	10uH	10%	

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P10	E40-3254-05	CONNECTOR	10P			
Q1	2SA1162(O)	TR. SI, PNP				
Q2	2SA1162(O)	TR. SI, PNP				
Q3	2SA1162(O)	TR. SI, PNP				
Q4	2SA1162(O)	TR. SI, PNP				
Q5	2SA1162(O)	TR. SI, PNP				
Q6	2SA1162(O)	TR. SI, PNP				
Q7	2SA1162(O)	TR. SI, PNP				
Q8	RN2403	TR. SI, PNP				
R1	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5P	1/10W	
R2	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5P	1/10W	
R3	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5P	1/10W	
R4	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5P	1/10W	
R5	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5P	1/10W	
R6	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5P	1/10W	
R7	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5P	1/10W	
R8	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R9	RN73FH2A163D	RES. CHIP (2*1.25)	16K	0.5P	1/10W	
R10	RN73FH2A393D	RES. CHIP (2*1.25)	39K	0.5P	1/10W	
R11	RN73FH2A302D	RES. CHIP (2*1.25)	3K	0.5P	1/10W	
R13	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R15	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W	
R115	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R130	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R131	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R132	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R133	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R134	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R135	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
U1	NJM4559M	IC, DUAL OP AMP				
U2	TC4584BF	IC, HEX SCHMITT TRIGGER				
U6	TC4013BF	IC, DUAL D-TYPENFLIP FLOP				
U25	TC4094BF	IC, 8-BIT SHIFRAND STORE				
MODULATOR UNIT (X76-1540-00)						
	J73-0532-02	PCB (UNMOUNTED)				
	J21-4963-04	BRACKET				
	N67-2606-41	SCREW, SEMS PAN HD (M2.6*6)				
C1	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V	
C2	CQ92HP2A103F	CAP. PLASTIC FILM	0.01u	1%	100V	
C3	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V	
C4	CQ92HP2A103F	CAP. PLASTIC FILM	0.01u	1%	100V	
C5	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C6	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C7	C90-4516-05	CAP. ELECTRO	2.2u	20%	50V	
C8	C90-4515-05	CAP. ELECTRO	4.7u	20%	25V	
C9	C90-4514-05	CAP. ELECTRO	4.7u	20%	16V	
C10	C90-4514-05	CAP. ELECTRO	4.7u	20%	16V	
C11	C90-4517-05	CAP. ELECTRO	10u	20%	35V	
C12	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C13	C90-4513-05	CAP. ELECTRO	10u	20%	16V	
C14	CC73FCH1H070DM	CAP. CHIP (2*1.25)	7p	0.5P	50V	
C15	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	

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Ref. No	Parts No.	Name & Description			
C16	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C17	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C18	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C19	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C20	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C21	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C22	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C23	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C24	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C25	CC73FCH1H121JM	CAP. CHIP (2*1.25)	120p	5%	50V
C26	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C27	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C28	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C29	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C30	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C31	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C32	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C33	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C34	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C35	C90-4517-05	CAP. ELECTRO	10u	20%	35V
C36	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C37	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C38	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C39	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C40	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C41	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C42	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C43	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C44	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C54	CC73FCH1H050CM	CAP. CHIP (2*1.25)	5p	0.25P	50V
C55	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C56	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C57	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C58	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C59	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C60	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C62	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C63	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C64	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C65	C90-4515-05	CAP. ELECTRO	4.7u	20%	25V
C66	C90-4515-05	CAP. ELECTRO	4.7u	20%	25V
C67	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C68	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C69	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C70	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C72	CC73FCH1H101JM	CAP. CHIP (2*1.25)	1000p	5%	50V
C75	C90-4517-05	CAP. ELECTRO	10u	20	35V
C77	CC73FCH1H101JM	CAP. CHIP (2*1.25)	1000p	5%	50V
C78	CC73FCH1H101JM	CAP. CHIP (2*1.25)	1000p	5%	50V
D1	1SS226	DIODE			
D2	RD5.1M	DIODE			
D4	RD5.1M	DIODE			
DS1	B30-3022-05	LED; RED			
DS2	B30-3022-05	LED; RED			

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PARTS LIST

SG-7200/SG-7130

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Ref. No	Parts No.	Name & Description				
L2	L33-0835-05	FERRI INDUCTOR	100uH	10%		
L3	L33-0835-05	FERRI INDUCTOR	100uH	10%		
L4	L33-0835-05	FERRI INDUCTOR	100uH	10%		
P1	E40-3246-05	CONNECTOR	2P			
P2	E40-7487-05	CONNECTOR	20P			
Q1	2SK208(GR)	FET				
R1	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R2	RN73FH2A393D	RES. CHIP (2*1.25)	39K	0.5P	1/10W	
R3	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R4	RN73FH2A393D	RES. CHIP (2*1.25)	39K	0.5P	1/10W	
R5	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R6	RN73FH2A333D	RES. CHIP (2*1.25)	33K	0.5P	1/10W	
R7	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R8	RN73FH2A163D	RES. CHIP (2*1.25)	16K	0.5P	1/10W	
R9	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R10	RN73FH2A163D	RES. CHIP (2*1.25)	16K	0.5P	1/10W	
R11	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W	
R12	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W	
R13	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R14	RN73FH2A154D	RES. CHIP (2*1.25)	150K	0.5P	1/10W	
R15	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R16	RN73FH2A273D	RES. CHIP (2*1.25)	27K	0.5P	1/10W	
R17	RN73FH2A683D	RES. CHIP (2*1.25)	68K	0.5P	1/10W	
R18	RN73FH2A624D	RES. CHIP (2*1.25)	620K	0.5P	1/10W	
R19	RN73FH2A274D	RES. CHIP (2*1.25)	270K	0.5P	1/10W	
R20	R32-0849-05	RES. SEMI FIXED	200K	20%	1/2W	
R21	RN73FH2A913D	RES. CHIP (2*1.25)	91K	0.5P	1/10W	
R22	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W	
R23	RN73FH2A203D	RES. CHIP (2*1.25)	20K	0.5P	1/10W	
R24	RN73FH2A122D	RES. CHIP (2*1.25)	1.2K	0.5P	1/10W	
R25	RN73FH2A105D	RES. CHIP (2*1.25)	1M	0.5P	1/10W	
R26	R12-3528-05	RES. SEMI FIXED	20K	0.5P	1/10W	
R27	RN73FH2A183D	RES. CHIP (2*1.25)	18K	0.5P	1/10W	
R28	RN73FH2A124D	RES. CHIP (2*1.25)	120K	0.5P	1/10W	
R31	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W	
R32	RN73FH2A223D	RES. CHIP (2*1.25)	22K	0.5P	1/10W	
R35	RN73FH2A133D	RES. CHIP (2*1.25)	13K	0.5P	1/10W	
R36	RN73FH2A273D	RES. CHIP (2*1.25)	27K	0.5P	1/10W	
R37	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R38	RN73FH2A105D	RES. CHIP (2*1.25)	1M	0.5P	1/10W	
R39	R12-3528-05	RES. SEMI FIXED	20K	0.5P	1/10W	
R40	RN73FH2A105D	RES. CHIP (2*1.25)	1M	0.5P	1/10W	
R41	R12-3528-05	RES. SEMI FIXED	20K	20%	1/2W	
R42	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R43	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R44	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R45	RN73FH2A913D	RES. CHIP (2*1.25)	91K	0.5P	1/10W	
R46	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W	
R47	RN73FH2A203D	RES. CHIP (2*1.25)	20K	0.5P	1/10W	
R48	RN73FH2A163D	RES. CHIP (2*1.25)	16K	0.5P	1/10W	
R49	RN73FH2A753D	RES. CHIP (2*1.25)	75K	0.5P	1/10W	
R50	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W	
R51	RN73FH2A223D	RES. CHIP (2*1.25)	22K	0.5P	1/10W	

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Ref. No	Parts No.	Name & Description				
R52	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W	
R53	RN73FH2A273D	RES. CHIP (2*1.25)	27K	0.5P	1/10W	
R54	RN73FH2A223D	RES. CHIP (2*1.25)	22K	0.5P	1/10W	
R55	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R56	RN73FH2A273D	RES. CHIP (2*1.25)	27K	0.5P	1/10W	
R57	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W	
R63	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R64	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R65	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R66	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R67	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R68	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R69	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R70	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R71	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R72	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R73	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R74	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R75	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R76	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R77	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W	
R78	RN73FH2A203D	RES. CHIP (2*1.25)	20K	0.5P	1/10W	
R79	RN73FH2A113D	RES. CHIP (2*1.25)	11K	0.5P	1/10W	
R80	RN73FH2A221D	RES. CHIP (2*1.25)	220	0.5P	1/10W	
R81	R12-2518-05	RES. SEMI FIXED	5K	0.5P	1/10W	
R82	RN73FH2A133D	RES. CHIP (2*1.25)	13K	0.5P	1/10W	
R83	RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5P	1/10W	
R84	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W	
R85	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W	
R86	RN73FH2A121D	RES. CHIP (2*1.25)	120	0.5P	1/10W	
R87	RN73FH2A302D	RES. CHIP (2*1.25)	3K	0.5P	1/10W	
R88	RN73FH2A202D	RES. CHIP (2*1.25)	2K	0.5P	1/10W	
R89	RN73FH2A153D	RES. CHIP (2*1.25)	15K	0.5P	1/10W	
R90	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W	
R91	RN73FH2A153D	RES. CHIP (2*1.25)	15K	0.5P	1/10W	
R92	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W	
R93	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W	
R94	RN73FH2A512D	RES. CHIP (2*1.25)	5.1K	0.5P	1/10W	
R95	RN73FH2A512D	RES. CHIP (2*1.25)	5.1K	0.5P	1/10W	
R96	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R97	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W	
R100	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W	
R101	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W	
R102	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W	
R103	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W	
R104	R12-2518-05	RES. SEMI FIXED	5K	0.5P	1/10W	
R105	RN73FH2A473D	RES. SEMI FIXED	47K	0.5P	1/10W	
R106	RN73FH2A473D	RES. SEMI FIXED	47K	0.5P	1/10W	
R107	RN73FH2A473D	RES. SEMI FIXED	47K	0.5P	1/10W	
TP1	E23-1512-05	TEST TERMINAL				
TP2	E23-1512-05	TEST TERMINAL				
TP3	E23-1512-05	TEST TERMINAL				
TP4	E23-1512-05	TEST TERMINAL				
TP5	E23-1512-05	TEST TERMINAL				
TP6	E23-1512-05	TEST TERMINAL				

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Ref. No	Parts No.	Name & Description
TP7	E23-1512-05	TEST TERMINAL
TP8	E23-1512-05	TEST TERMINAL
TP9	E23-1512-05	TEST TERMINAL
TP11	E23-1512-05	TEST TERMINAL
TP12	E23-1512-05	TEST TERMINAL
TP13	E23-1512-05	TEST TERMINAL
U1	TL072CPS	IC, LOW POWER J-FET INPUT OP AMP
U2	TL072CPS	IC, LOW POWER J-FET INPUT OP AMP
U3	TC4053BF	IC, TRIPLE 2-CH MPX/DE-MPX
U4	TC4053BF	IC, TRIPLE 2-CH MPX/DE-MPX
U5	NJM4559M	IC, DUAL OP AMP
U6	MAX543BCSA	IC, 12-BIT D/A CONVERTER
U7	X9C103S	IC, DIGI. CONTROL POTENTIOMETER
U8	NJM4559M	IC, DUAL OP AMP
U9	TC4053BF	IC, TRIPLE 2-CH MPX/DE-MPX
U10	TC4053BF	IC, TRIPLE 2-CH MPX/DE-MPX
U11	NJM4559M	IC, DUAL OP AMP
U12	MAX543BCSA	IC, 12-BIT D/A CONVERTER
U13	X9C103S	IC, DIGI. CONTROL POTENTIOMETER
U14	TC4053BF	IC, TRIPLE 2-CH MPX/DE-MPX
U15	X9C103S	IC, DIGI. CONTROL POTENTIOMETER
U16	NJM4559M	IC, DUAL OP AMP
U17	MAX543BCSA	IC, 12-BIT D/A CONVERTER
U22	TC4584BF	IC, HEX SCHMITT TRIGGER
U23	TC4094BF	IC, 8-BIT SHIFT AND STORE BUS REGISTER
U24	TC4584BF	IC, HEX SCHMITT TRIGGER
U25	TC4094BF	IC, 8-BIT SHIFT AND STORE BUS REGISTER
U26	TC4094BF	IC, 8-BIT SHIFT AND STORE BUS REGISTER
U27	TC4094BF	IC, 8-BIT SHIFT AND STORE BUS REGISTER
U28	TC4053BF	IC, TRIPLE 2-CH MPX/DE-MPX
U29	LMT393D	IC, DUAL SIGNAL SUPPLY COMPARATOR
U30	TC4538BF	IC, DUAL MONOSTABLE MULTIV.
U31	TC7W08FU	IC, DUAL 2-INPUT AND GATE

PARTS LIST

SG-7200/SG-7130

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Ref. No	-00	-01	Parts No.	Name & Description		
CPU UNIT (X77-1970-00/SG-7200)(X77-1970-01/SG-7130)						
			J73-0439-03	OCB (UNMOUNTED)		
			A83-0075-04	REAR PANEL		
	-	-	B42-6126-24 B42-6127-24	LABEL LABEL		
			F11-1505-13 F15-0744-05	SHIELD CASE BLIND PLATE		
			HN27C101AG-15	IC		
			J21-4922-04	BRACKET		
			N19-2018-04 N67-2606-41 N67-3006-41	PLAIN WASHER SCREW, SEMS PAN HD (M2.6*6) SCREW, SEMS PAN HD (M3*6)		
	-	-	T93-0871-54 T93-0873-54	PROGRAMED ROM PROGRAMED ROM		
	-	-	V90-0871-59 V90-0873-59 V91-0871-59 V91-0873-59 V92-0871-59	MASTER ROM MASTER ROM OBJECT DISK OBJECT DISK SOURCE DISK		
	-	-	V92-0873-59 V93-0871-59 V93-0873-59 V94-0871-59 V94-0873-59	SOURCE DISK SOURCE LIST SOURCE LIST LIST LIST		
BT1			W09-2390-05	BATTERY		
C1			CC73FCH1H330JM	CAP. CHIP (2*1.25)	33p	5% 50V
C2			CC73FCH1H330JM	CAP. CHIP (2*1.25)	33p	5% 50V
C3			C90-4514-05	CAP. ELECTRO	47u	20% 16V
C14			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C15			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C16			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C17			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C18			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C19			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C20			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C21			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C22			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C23			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C24			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C25			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C26			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C27			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C49			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C50			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C51			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C52			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C53			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C54			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C55			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C56			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V

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Ref. No	-00	-01	Parts No.	Name & Description		
C57			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C58			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C59			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C60			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C61			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C77			C90-4518-05	CAP. ELECTRO	100u	20% 16V
C78			C90-4518-05	CAP. ELECTRO	100u	20% 16V
C79			C90-4518-05	CAP. ELECTRO	100u	20% 16V
C80			C90-4518-05	CAP. ELECTRO	100u	20% 16V
C83			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C84			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C85			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C86			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C87			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C89			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C90			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C92			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C94			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C96			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C97			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C98			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C99			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C101			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C102			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C105			CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80% 25V
C106			CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5% 50V
C107			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
C108			CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5% 50V
D1			1SS181	DIODE		
D2			B30-3022-05	LED; RED		
D3			B30-3022-05	LED; RED		
D4			B30-3022-05	LED; RED		
D5			B30-3022-05	LED; RED		
D6			B30-3021-05	LED; GREEN		
J2			E02-0204-05	IC SOCKET		
P1			E40-7479-05	CONNECTOR		
P3			E40-7500-05	CONNECTOR		
R1			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R2			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R3			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R4			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R5			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R6			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R7			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R8			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R9			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R10			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R11			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R12			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R13			RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P 1/10W
R14			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R15			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R16			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W
R17			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P 1/10W

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R18			RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R19			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R20			RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5P	1/10W
R21			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R22			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R23			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R24			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R25			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R26			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R27			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R28			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R29			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R30			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R31			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R32			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R33			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R34			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R35			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R36			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R37			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R38			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R39			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R40			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R41			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R42			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R43			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R44			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R45			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R46			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R47			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R48			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R49			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R51			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R52			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R53			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R54			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R55			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R57			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R58			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R59			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R88			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R89			RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R90			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R91			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R92			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R93			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R94			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R96			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R97			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R98			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R99			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R100			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R101			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R102			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R103			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W

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R104			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R105			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R106			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R107			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R108			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R109			RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R110			RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R111			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R112			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R113			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R116			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R117			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R119			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R120			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R121			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
S1			S79-0621-05	DIP SWITCH			
S2			S79-0607-05	DIP SWITCH			
S4			S68-0640-05	PUSH SWITCH			
U1			UPD70320L-8	IC, 1-CHIP 16/8-BIT MICRO COMPUTER			
U2			PST531A	IC, RESET			
U3			TC74HC138AF	IC, 3-TO-8 LINE DECODER			
U4			TC74HC138AF	IC, 3-TO-8 LINE DECODER			
U5			TC74HC20AF	IC, DUAL 4-INPUT NAND GATE			
U6			TC74HC32AF	IC, QUAD 2-INPUT OR GATE			
U7			TC74HC04AF	IC, HEX INVERTER			
U8			TC74HC74AF	IC, DUAL D-FLIP FLOP WITH PRESET AND CLEAR			
U9			TC74HC00AF	IC, QUAD 2-INPUT NAND GATE			
U10			HN27C101AG-15	IC			
U11			HM62256BWM-70	IC			
U12			UPD71055L	IC, PRO. PERIPHERAL INTERFACE			
U14			NAT9914BPD	IC			
U15			SN75160BN	IC, INTERFACE BUS TRANSCEIVER			
U16			W02-4059-04	UNIT; GPIB BUFFER			
U17			TC74HC32AF	IC, QUAD 2-INPUT OR GATE			
U20			TC74HC08AF	IC, QUAD 2-INPUT AND GATE			
U21			TC74HC138AF	IC, 3-TO-8 LINE DECODER			
U23			TC74HC138AF	IC, 3-TO-8 LINE DECODER			
U29			TC74HC541AF	IC, OCTAL BUS BUFFER (3-STATE)			
U31			TC74HC574AF	IC, OCTAL D-TYPE FLIP FLOP (3-STATE)			
U32			UPD71059L-10	IC, PRO. INTERRUPT CONTROLLER			
U33			TC74HC126AF	IC, QUAD BUS BUFFER (3-STATE)			
U36			TC74HC126AF	IC, QUAD BUS BUFFER (3-STATE)			
U101			TC74HC14AF	IC, HEX SCHMITT INVERTER			
U105			TC74HC14AF	IC, HEX SCHMITT INVERTER			
Y1			L78-0117-05	RESONATOR			

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PARTS LIST

SG-7200/SG-7130

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Ref. No	Parts No.	Name & Description			
CONVERTER UNIT (X78-1180-00)					
	J73-0533-02	PCB (UNMOUNTED)			
	F11-1510-23	SHIELD CASE			
C1	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C2	CC73FCH1H020CM	CAP. CHIP (2*1.25)	2p	0.25P	50V
C3	CC73FCH1H020CM	CAP. CHIP (2*1.25)	2p	0.25P	50V
C4	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C5	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C6	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C7	CK73EF1C105ZMU	CAP. CHIP (2*1.25)	1u	-20/80%	16V
C8	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C10	CC73FCH1H080D	CAP. CHIP (2*1.25)	8p	0.5P	50V
C11	CC73FCH1H080D	CAP. CHIP (2*1.25)	8p	0.5P	50V
C13	C05-0378-05	CAP. TRIMMER	20p		100V
C14	C90-4569-05	CAP. ELECTRO	120u	20%	25V
C15	C90-4569-05	CAP. ELECTRO	120u	20%	25V
C16	CC73FCH1H151JM	CAP. CHIP (2*1.25)	150p	5%	50V
C17	C90-4518-05	CAP. ELECTRO	100u		16V
C18	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C19	CK73EF1C105ZMU	CAP. CHIP (2*1.25)	1u	-20/80%	16V
C20	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C21	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C22	CC73FCH1H020CM	CAP. CHIP (2*1.25)	2p	1%	50V
C25	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C26	CK73FR1H472KMU	CAP. CHIP (2*1.25)	4700p	10%	50V
C27	CK73EF1C105ZMU	CAP. CHIP (2*1.25)	1u	-20/80%	16V
C28	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C29	C90-4518-05	CAP. ELECTRO	100u		16V
C30	C90-4518-05	CAP. ELECTRO	100u		16V
C31	C90-4518-05	CAP. ELECTRO	100u		16V
C32	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C33	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
D1	1SV230	DIODE			
D2	1SV230	DIODE			
J1	E04-0287-05	RF COAXIAL CONNECTOR			
J2	E40-7533-05	CONNECTOR	20-4P		
L1	L40-1092-81	FERRI INDUCTOR	1uH	20%	
L14	L40-2782-81	FERRI INDUCTOR	270nH	20%	
L15	R92-1650-05	JUMPER WIRE	0		
L16	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L17	L40-3982-81	FERRI INDUCTOR	390nH	20%	
L18	L40-3982-81	FERRI INDUCTOR	390nH	20%	
L19	L33-0838-05	FERRI INDUCTOR	470uH	5%	
L23	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L24	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L25	L33-0835-05	FERRI INDUCTOR	100uH	10%	
M1	L14-01018-05	MODULATION TRANSFORMER			
Q1	2SC3356	TR. SI, NPN			
Q2	2SC2407(A)	TR. SI, NPN			
Q3	2SC2712	TR. SI, NPN			
Q4	RN2403	TR. SI, PNP			
Q5	2SC2712	TR. SI, NPN			

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Q6	2SC2712	TR. SI, NPN			
R1	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R2	RN73FH2A620D	RES. CHIP (2*1.25)	62	0.5P	1/10W
R3	RN73FH2A151D	RES. CHIP (2*1.25)	150	0.5P	1/10W
R4	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R5	RN73FH2A391D	RES. CHIP (2*1.25)	390	0.5P	1/10W
R6	RN73FH2A620D	RES. CHIP (2*1.25)	62	0.5P	1/10W
R9	RN73FH2A510D	RES. CHIP (2*1.25)	51	0.5P	1/10W
R10	RN73FH2A510D	RES. CHIP (2*1.25)	51	0.5P	1/10W
R11	RN14BK2C8200F	RES. CHIP (2*1.25)	820	1%	1/6W
R12	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R13	RN73FH2A391D	RES. CHIP (2*1.25)	390	0.5P	1/10W
R14	RN73FH2A511D	RES. CHIP (2*1.25)	510	0.5P	1/10W
R15	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R16	RN14BK2C3900F	RES. METAL FILM	390	1%	1/6W
R18	RN73FH2A150D	RES. CHIP (2*1.25)	15	0.5P	1/10W
R19	RN73FH2A150D	RES. CHIP (2*1.25)	15	0.5P	1/10W
R20	RN73FH2A150D	RES. CHIP (2*1.25)	15	0.5P	1/10W
R21	RN73FH2A161D	RES. CHIP (2*1.25)	160	0.5P	1/10W
R22	RN14BK2C91R0F	RES. METAL FILM	91	1%	1/6W
R23	RN14BK2C91R0F	RES. METAL FILM	91	1%	1/6W
R24	RN14BK2C15R0F	RES. METAL FILM	15	1%	1/6W
R25	RN14BK2C15R0F	RES. METAL FILM	15	1%	1/6W
R26	RN14BK2C15R0F	RES. METAL FILM	15	1%	1/6W
R27	RN14BK2C2200F	RES. METAL FILM	220	1%	1/6W
R28	RN14BK2C2200F	RES. METAL FILM	220	1%	1/6W
R29	RN73FH2A100D	RES. CHIP (2*1.25)	10	0.5P	1/10W
R30	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R31	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R32	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R33	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R34	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R35	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R36	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R37	RN73FH2A203D	RES. CHIP (2*1.25)	20K	0.5P	1/10W
R38	RN73FH2A203D	RES. CHIP (2*1.25)	20K	0.5P	1/10W
R39	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R40	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R41	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R42	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R43	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R44	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R45	RN73FH2A391D	RES. CHIP (2*1.25)	390	0.5P	1/10W
R46	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R47	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R48	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R49	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R50	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R51	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R52	R12-1514-05	RES. SEMI FIXED	1K		1/2W
R53	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R54	RN73FH2A100D	RES. CHIP (2*1.25)	10	0.5P	1/10W
U1	X9C103S	IC, DIGI. CONTROL POTENTIOMETER			
U2	X9C103S	IC, DIGI. CONTROL POTENTIOMETER			

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Ref. No	Parts No.	Name & Description
U3	TC4584BF	IC, HEX SCHMITT TRIGGER
U4	TC4094BF	IC, 8-BIT SHIFT AND STIRE BUS REGISTER
U5	TC4094BF	IC, 8-BIT SHIFT AND STIRE BUS REGISTER
U6	NJM4559M	IC, DUAL OP AMP
CONVERTER UNIT (X78-1190-00)		
	J73-0533-02	PCB (UNMOUNTED)
	F10-2520-04	SHIELD PLATE
	F11-1506-13	SHIELD CASE
	G02-0617-14	SPRING; LEAF
	G02-0618-14	SPRING; LEAF
	J30-0654-04	SPACER
	J31-0631-05	COLLAR
	J32-1254-04	BOSS, HEX
	L79-0577-05	FILTER
	N10-2023-41	HEXAGON NUT
	N19-0747-04	WASHER
	N30-2318-41	SCREW, PAN HD
	N30-3012-41	SCREW, PAN HD (M3*12)
	N67-3006-41	SCREW, SEMS PAN HD (M3*6)
	N67-3010-41	SCREW, SEMS PAN HD (M3*10)
C1	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C2	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C3	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C4	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C5	CC73FCH1H560JM	CAP. CHIP (2*1.25) 56p 5% 50V
C6	CC73FCH1H100DM	CAP. CHIP (2*1.25) 10p 0.5P 50V
C8	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C9	CC73FCH1H680JM	CAP. CHIP (2*1.25) 68p 5% 50V
C10	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C11	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C12	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C13	CC73FCH1H150JM	CAP. CHIP (2*1.25) 15p 5% 50V
C14	CC73FCH1H070DM	CAP. CHIP (2*1.25) 7P 0.5P 50V
C15	CC73FCH1H020CM	CAP. CHIP (2*1.25) 2p 0.25P 50V
C16	CC73FCH1H150JM	CAP. CHIP (2*1.25) 15p 5% 50V
C17	C05-0492-05	CAP. TRIMMER 10p
C18	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C19	CC73FCH1H180JM	CAP. CHIP (2*1.25) 18P 5% 50V
C20	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C21	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C22	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C23	CC73FCH1H040CM	CAP. CHIP (2*1.25) 4p 0.25P 50V
C24	CC73FCH1H050CM	CAP. CHIP (2*1.25) 5p 0.25P 50V
C25	CC73FCH1H020CM	CAP. CHIP (2*1.25) 2p 0.25P 50V
C26	CC73FCH1H100DM	CAP. CHIP (2*1.25) 10p 0.5P 50V
C27	C05-0494-05	CAP. TRIMMER 3p
C28	CC73FCH1H390JM	CAP. CHIP (2*1.25) 39p 5% 50V
C29	CC73FCH1H100DM	CAP. CHIP (2*1.25) 10p 0.5P 50V
C30	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C31	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V

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C32	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C33	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C34	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C35	CC73FCH1H040CM	CAP. CHIP (2*1.25) 4p 0.25P 50V
C36	CC73FCH1H080DM	CAP. CHIP (2*1.25) 8p 0.5P 50V
C37	CC73FCH1H050CM	CAP. CHIP (2*1.25) 5p 0.25P 50V
C38	CC73FCH1H100DM	CAP. CHIP (2*1.25) 10p 0.5P 50V
C39	CC73FCH1H040CM	CAP. CHIP (2*1.25) 4p 0.25P 50V
C40	CC73FCH1H180JM	CAP. CHIP (2*1.25) 18p 5% 50V
C41	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C42	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C43	CC73FCH1H270JM	CAP. CHIP (2*1.25) 27p 5% 50V
C44	CK73FF1H473ZMU	CAP. CHIP (2*1.25) 0.047u -20/80% 50V
C45	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C46	CC73FCH1H080DM	CAP. CHIP (2*1.25) 8p 0.5P 50V
C47	CC73FCH1H100DM	CAP. CHIP (2*1.25) 10p 0.5P 50V
C48	CK73FR1H103KMU	CAP. CHIP (2*1.25) 0.01u 10% 50V
C49	CK73FR1H103KMU	CAP. CHIP (2*1.25) 0.01u 10% 50V
C50	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C51	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C52	CC73FCH1H080DM	CAP. CHIP (2*1.25) 8p 0.5P 50V
C53	CC73FCH1H030CM	CAP. CHIP (2*1.25) 3p 0.25P 50V
C54	C05-0494-05	CAP. TRIMMER 3p
C55	CC73FCH1H120JM	CAP. CHIP (2*1.25) 12p 5% 50V
C56	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C57	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C58	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C59	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C60	CC73FCH1H040CM	CAP. CHIP (2*1.25) 4p 0.25P 50V
C61	CC73FCH1H080DM	CAP. CHIP (2*1.25) 8p 0.5P 50V
C62	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C63	CK73FR1H103KMU	CAP. CHIP (2*1.25) 0.01u 10% 50V
C64	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C65	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C66	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C67	CC73FCH1H330JM	CAP. CHIP (2*1.25) 33p 5% 50V
C68	C05-0376-05	CAP. TRIMMER 6p
C69	CC73FCH1H020CM	CAP. CHIP (2*1.25) 2p 0.25P 50V
C71	CC73FCH1H560JM	CAP. CHIP (2*1.25) 56p 5% 50V
C72	CK73FR1H103KMU	CAP. CHIP (2*1.25) 0.01u 10% 50V
C73	CK73FR1H103KMU	CAP. CHIP (2*1.25) 0.01u 10% 50V
C74	CK73FR1H103KMU	CAP. CHIP (2*1.25) 0.01u 10% 50V
C75	CK73FR1H103KMU	CAP. CHIP (2*1.25) 0.01u 10% 50V
C76	CK73FR1H102KMU	CAP. CHIP (2*1.25) 1000p 10% 50V
C77	C90-4513-05	CAP. ELECTRO 10u 20% 16V
C78	C90-4513-05	CAP. ELECTRO 10u 20% 16V
C79	C90-4518-05	CAP. ELECTRO 100u 20% 16V
C80	CC73FCH1H330JM	CAP. CHIP (2*1.25) 33p 5% 50V
D1	HSU88	DIODE
D2	1SS184	DIODE
D4	HVM14S	DIDOE
DS1	B30-3029-05	LED; RED
J1	E04-0287-05	RF COAXIAL CONNECTOR
J2	E04-0287-05	RF COAXIAL CONNECTOR

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PARTS LIST

SG-7200/SG-7130

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Ref. No	Parts No.	Name & Description			
J3	E04-0285-05	RF COAXIAL CONNECTOR			
JP1	E68-0617-05	SHORT CONNECTOR	2P		
JP2	E68-0617-05	SHORT CONNECTOR	2P		
L1	L40-6882-81	FERRI INDUCTOR	680nH	20%	
L2	L40-3371-80	FERRI INDUCTOR	33nH	10%	
L4	L40-5671-80	FERRI INDUCTOR	56nH	10%	
L5	L39-1405-05	TOROIDAL COIL			
L6	L40-1872-80	FERRI INDUCTOR	18nH	20%	
L7	L40-1872-80	FERRI INDUCTOR	18nH	20%	
L8	L40-1872-80	FERRI INDUCTOR	18nH	20%	
L9	L39-1405-05	TOROIDAL COIL			
L10	L39-1405-05	TOROIDAL COIL			
L11	L40-1872-80	FERRI INDUCTOR	18nH	20%	
L12	L40-2271-80	FERRI INDUCTOR	22nH	10%	
L13	L40-1071-80	FERRI INDUCTOR	10nH	10%	
L14	L40-2281-80	FERRI INDUCTOR	220nH	10%	
L15	L40-2281-80	FERRI INDUCTOR	220nH	10%	
L16	L40-2281-80	FERRI INDUCTOR	220nH	10%	
L17	L40-3972-80	FERRI INDUCTOR	39nH	20%	
L18	L40-3972-80	FERRI INDUCTOR	39nH	20%	
L19	L33-0835-05	FERRI INDUCTOR	100uH	10%	
M1	L14-0108-05	MODULATION TRANSFORMER			
MP7	E23-1511-05	TERMINAL SCREW			
MP8	E23-1511-05	TERMINAL SCREW			
Q1	2SC2712	TR. SI, NPN			
Q2	2SC2712	TR. SI, NPN			
Q3	2SC4322	TR. SI, NPN			
Q4	2SC4322	TR. SI, NPN			
Q5	2SA1162(O)	TR. SI, PNP			
Q6	2SC4322	TR. SI, NPN			
Q7	2SC4322	TR. SI, NPN			
Q8	2SC4322	TR. SI, NPN			
Q9	RN1403	TR. SI, NPN			
R2	R92-1650-05	JUMPER WIRE	0		
R4	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R5	RN73FH2A362D	RES. CHIP (2*1.25)	3.6K	0.5P	1/10W
R6	RN73FH2A750D	RES. CHIP (2*1.25)	75	0.5P	1/10W
R7	RN73FH2A100D	RES. CHIP (2*1.25)	10	0.5P	1/10W
R8	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R9	RN73FH2A362D	RES. CHIP (2*1.25)	3.6K	0.5P	1/10W
R10	RN73FH2A750D	RES. CHIP (2*1.25)	75	0.5P	1/10W
R11	RN73FH2A182D	RES. CHIP (2*1.25)	1.8K	0.5P	1/10W
R12	RN73FH2A100D	RES. CHIP (2*1.25)	10	0.5P	1/10W
R13	RN73FH2A100D	RES. CHIP (2*1.25)	10	0.5P	1/10W
R14	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R15	RN73FH2A362D	RES. CHIP (2*1.25)	3.6K	0.5P	1/10W
R16	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R17	RN73FH2A750D	RES. CHIP (2*1.25)	75	0.5P	1/10W
R18	RN73FH2A182D	RES. CHIP (2*1.25)	1.8K	0.5P	1/10W
R19	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
R20	RN73FH2A100D	RES. CHIP (2*1.25)	10	0.5P	1/10W
R21	RN73FH2A362D	RES. CHIP (2*1.25)	3.6K	0.5P	1/10W
R22	RN73FH2A560D	RES. CHIP (2*1.25)	56	0.5P	1/10W
R23	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W

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R24	RN73FH2A182D	RES. CHIP (2*1.25)	1.8K	0.5P	1/10W
R25	RN73FH2A221D	RES. CHIP (2*1.25)	220	0.5P	1/10W
R26	RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5P	1/10W
R27	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
R28	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R29	RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5P	1/10W
R30	RN73FH2A751D	RES. CHIP (2*1.25)	750	0.5P	1/10W
R31	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R32	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R33	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R34	RN73FH2A240D	RES. CHIP (2*1.25)	24	0.5P	1/10W
R35	RN73FH2A751D	RES. CHIP (2*1.25)	750	0.5P	1/10W
R36	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R37	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R38	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R39	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R40	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R41	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R42	RN73FH2A334D	RES. CHIP (2*1.25)	330K	0.5P	1/10W
R43	RN73FH2A272D	RES. CHIP (2*1.25)	2.7K	0.5P	1/10W
R44	RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5P	1/10W
R46	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
R47	RN73FH2A510D	RES. CHIP (2*1.25)	51	0.5P	1/10W
R48	RN73FH2A153D	RES. CHIP (2*1.25)	15K	0.5P	1/10W
R49	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R50	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R51	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R52	RN73FH2A100D	RES. CHIP (2*1.25)	10	0.5P	1/10W
TP6	E40-7501-05	CONNECTOR	3P		
TP10	E40-7501-05	CONNECTOR	3P		
U1	NJM4559M	IC, DUAL OP AMP			
CONVERTER UNIT (X78-1200-00)					
	J73-0437-14	PCB (UNMOUNTED)			
	G02-0615-04	SPRING; EARTH			
	G02-0616-04	SPRING; EARTH			
C1	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C2	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C3	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C4	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
D1	1SS184	DIODE			
J1	E04-0287-05	RF COAXIAL CONNECTOR			
J2	E04-0287-05	RF COAXIAL CONNECTOR			
K1	S76-0632-05	RELAY			
K2	S76-0632-05	RELAY			
P5	E40-7480-05	CONNECTOR	20-4P		
R1	RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5P	1/10W
R2	R90-1191-05	ATTENUATOR	32dB		
SIGNAL PROCESSOR UNIT (X79-1260-00)					
	J73-0435-12	PCB (UNMOUNTED)			

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	F10-2518-04	SHIELD PLATE				
	F11-1507-13	SHIELD CASE				
	F10-2519-04	SHIELD PLATE				
	N19-0747-04	WASHER				
C1	CC73FCH1H471JM	CAP. CHIP (2*1.25)	470p	5%	50V	
C2	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V	
C3	C90-4513-05	CAP. ELECTRO	10u	20%	16V	
C4	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C5	C90-4514-05	CAP. ELECTRO	47u	20%	16V	
C6	C90-4514-05	CAP. ELECTRO	47u	20%	16V	
C7	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C9	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C10	C90-4514-05	CAP. ELECTRO	47u	20%	16V	
C11	C90-4520-05	CAP. ELECTRO	4.7u	20%	50V	
C12	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C13	CC73FCH1H050CM	CAP. CHIP (2*1.25)	5p	0.25P	50V	
C14	CC73FCH1H050CM	CAP. CHIP (2*1.25)	5p	0.25P	50V	
C15	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C16	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C17	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C18	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C19	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C20	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C21	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C22	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C23	C90-4514-05	CAP. ELECTRO	47u	20%	16V	
C24	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C25	C90-4514-05	CAP. ELECTRO	47u	20%	16V	
C26	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C27	C90-4514-05	CAP. ELECTRO	47u	20%	16V	
C28	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C29	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C30	CK73FR1H223KMU	CAP. CHIP (2*1.25)	0.022u	10%	50V	
C31	CC73FCH1H330JM	CAP. CHIP (2*1.25)	33p	5%	50V	
C32	CC73FCH1H221JM	CAP. CHIP (2*1.25)	220p	5%	50V	
C33	CC73FCH1H330JM	CAP. CHIP (2*1.25)	33p	5%	50V	
C34	CC73FCH1H221JM	CAP. CHIP (2*1.25)	220p	5%	50V	
C35	CC73FCH1H330JM	CAP. CHIP (2*1.25)	33p	5%	50V	
C36	CC73FCH1H221JM	CAP. CHIP (2*1.25)	220p	5%	50V	
C37	CC73FCH1H330JM	CAP. CHIP (2*1.25)	33p	5%	50V	
C38	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C39	CC73FCH1H221JM	CAP. CHIP (2*1.25)	220p	5%	50V	
C40	C90-4514-05	CAP. ELECTRO	47u	20%	16V	
C41	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C42	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V	
C43	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V	
C44	C90-4514-05	CAP. ELECTRO	47u	20%	16V	
C45	C91-2652-05	CAP. FILM	1u	10%	100V	
C47	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C48	C90-4514-05	CAP. ELECTRO	47u	20%	16V	
C49	C90-4520-05	CAP. ELECTRO	4.7u	20%	50V	
C50	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C51	C90-4518-05	CAP. ELECTRO	100u	20%	16V	
C52	C73FCH1H050CM	CAP. CHIP (2*1.25)	5p	0.25P	50V	

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Ref. No	Parts No.	Name & Description				
C53	C73FCH1H050CM	CAP. CHIP (2*1.25)	5p	0.25P	50V	
C54	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C56	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C57	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C58	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C59	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C60	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C61	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C62	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C65	C90-4513-05	CAP. ELECTRO	10u	20%	16V	
C66	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C67	CK73FR1H223KMU	CAP. CHIP (2*1.25)	0.022u	10%	50V	
C68	C90-4518-05	CAP. ELECTRO	100u	20%	16V	
C69	C90-4514-05	CAP. ELECTRO	47u	20%	16V	
C70	CK73FR1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C71	C90-4514-05	CAP. ELECTRO	47u	20%	16V	
C72	CC73FCH1H050CM	CAP. CHIP (2*1.25)	5p	0.25P	50V	
C73	CC73FCH1H050CM	CAP. CHIP (2*1.25)	5p	0.25P	50V	
C74	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C75	C90-4513-05	CAP. ELECTRO	10u	20%	16V	
C76	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C77	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C78	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C79	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C80	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C81	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C82	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C83	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C84	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C85	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C86	C90-4518-05	CAP. ELECTRO	100u	20%	16V	
C87	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C88	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C89	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V	
C90	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C91	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C92	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C93	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C94	C90-4518-05	CAP. ELECTRO	100u	20%	16V	
C95	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C96	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C97	C90-4518-05	CAP. ELECTRO	100u	20%	16V	
C98	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C99	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C100	C90-4518-05	CAP. ELECTRO	100u	20%	16V	
C101	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C103	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C104	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C106	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V	
C107	C90-4515-05	CAP. ELECTRO	4.7u	20%	25V	
C108	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C109	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C111	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C112	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V	
C113	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V	

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PARTS LIST

SG-7200/SG-7130

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Ref. No	Parts No.	Name & Description			
C114	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
D1	1SV215	DIODE			
D2	1SV215	DIODE			
D3	1SV242	DIODE; VARIABLE CAP.			
D4	1SV242	DIODE; VARIABLE CAP.			
D5	1SS226	DIODE			
D7	1SS226	DIODE			
D8	HSM88S	DIODE			
D9	1SS226	DIODE			
D10	1SS226	DIODE			
D13	1SV215	DIODE			
D14	1SV215	DIODE			
D15	1S242	DIODE; VARIABLE CAP.			
D16	1S242	DIODE; VARIABLE CAP.			
D17	1SV215	DIODE			
D18	1SV215	DIODE			
D19	1S242	DIODE; VARIABLE CAP.			
D20	1S242	DIODE; VARIABLE CAP.			
D23	1SS181	DIODE			
D24	1SS226	DIODE			
D25	RD5.1M	DIDOE			
DS1	B30-3029-05	LED; RED			
DS2	B30-3029-05	LED; RED			
J1	E04-0285-05	RF COAXIAL CONNECTOR			
J2	E04-0285-05	RF COAXIAL CONNECTOR			
L1	L40-1011-81	FERRI INDUCTOR	100uH	10%	
L2	L37-0073-04	COIL			
L3	L40-1001-81	FERRI INDUCTOR	10uH	10%	
L4	L40-1011-81	FERRI INDUCTOR	100uH	10%	
L5	L40-1011-81	FERRI INDUCTOR	100uH	10%	
L6	L40-2281-80	FERRI INDUCTOR	220nH	10%	
L7	L40-2281-80	FERRI INDUCTOR	220nH	10%	
L8	L40-1011-81	FERRI INDUCTOR	100uH	10%	
L9	L40-1011-81	FERRI INDUCTOR	100uH	10%	
L10	L37-0073-04	COIL			
L11	L40-1001-81	FERRI INDUCTOR	10uH	10%	
L12	L40-1001-81	FERRI INDUCTOR	10uH	10%	
L13	L40-1011-81	FERRI INDUCTOR	100uH	10%	
L14	L37-0077-05	COIL			
L15	L40-1001-81	FERRI INDUCTOR	10uH	10%	
L17	L40-3301-81	FERRI INDUCTOR	33uH	10%	
L18	L33-0742-05	FERRI INDUCTOR	10uH	10%	
L19	L33-0742-05	FERRI INDUCTOR	10uH	10%	
L20	L33-0742-05	FERRI INDUCTOR	10uH	10%	
L21	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L22	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L23	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L24	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L25	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L26	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L28	L40-1001-81	FERRI INDUCTOR	10uH	10%	
M1	L14-0109-15	MODULATION TRANSFORMER			
Q1	2SC3098	TR. SI, NPN			

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Ref. No	Parts No.	Name & Description			
Q2	2SC3098	TR. SI, NPN			
Q3	RN2403	TR. SI, PNP			
Q4	2SC2712	TR. SI, NPN			
Q5	RN1403	TR. SI, NPN			
Q6	2SA1162(O)	TR. SI, PNP			
Q7	2SC3098	TR. SI, NPN			
Q8	2SC3098	TR. SI, NPN			
Q9	2SC3098	TR. SI, NPN			
Q10	2SC3098	TR. SI, NPN			
Q11	RN2403	TR. SI, PNP			
Q12	RN2403	TR. SI, PNP			
Q13	RN1403	TR. SI, PNP			
Q14	2SC2712	TR. SI, NPN			
R1	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R2	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R3	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R4	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R5	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R6	RN73FH2A512D	RES. CHIP (2*1.25)	5.1K	0.5P	1/10W
R7	RN73FH2A510D	RES. CHIP (2*1.25)	51	0.5P	1/10W
R8	RN73FH2A511D	RES. CHIP (2*1.25)	510	0.5P	1/10W
R9	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R10	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R11	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R12	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R13	RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5P	1/10W
R14	RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5P	1/10W
R15	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R16	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W
R17	RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5P	1/10W
R18	RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5P	1/10W
R19	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R21	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R22	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R23	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R24	RN73FH2A220D	RES. CHIP (2*1.25)	22	0.5P	1/10W
R25	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5P	1/10W
R26	RN73FH2A562D	RES. CHIP (2*1.25)	5.6K	0.5P	1/10W
R27	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R28	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R29	RN73FH2A560D	RES. CHIP (2*1.25)	56	0.5P	1/10W
R30	RN73FH2A100D	RES. CHIP (2*1.25)	10	0.5P	1/10W
R31	RN73FH2A220D	RES. CHIP (2*1.25)	22	0.5P	1/10W
R32	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R33	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R34	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R35	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R36	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R37	RN73FH2A153D	RES. CHIP (2*1.25)	15K	0.5P	1/10W
R38	RN73FH2A183D	RES. CHIP (2*1.25)	18K	0.5P	1/10W
R39	R12-3518-05	RES. CHIP (2*1.25)	10K	20%	1/2W
R40	RN73FH2A243D	RES. CHIP (2*1.25)	24K	0.5P	1/10W
R41	RN73FH2A513D	RES. CHIP (2*1.25)	51K	0.5P	1/10W
R42	R92-1650-05	JUMPER WIRE	0		
R43	RN73FH2A561D	RES. CHIP (2*1.25)	560	0.5P	1/10W

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R44	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R45	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R46	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R47	RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5P	1/10W
R48	RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5P	1/10W
R49	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R50	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W
R51	RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5P	1/10W
R52	RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5P	1/10W
R53	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R54	RN73FH2A821D	RES. CHIP (2*1.25)	820	0.5P	1/10W
R55	RN73FH2A511D	RES. CHIP (2*1.25)	510	0.5P	1/10W
R56	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R57	RN73FH2A111D	RES. CHIP (2*1.25)	110	0.5P	1/10W
R58	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R59	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R60	RN73FH2A753D	RES. CHIP (2*1.25)	75K	0.5P	1/10W
R61	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
R62	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R63	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R64	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R65	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R66	RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5P	1/10W
R67	RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5P	1/10W
R68	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R69	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W
R70	RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5P	1/10W
R71	RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5P	1/10W
R72	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R73	RN73FH2A750D	RES. CHIP (2*1.25)	75	0.5P	1/10W
R74	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R75	RN73FH2A750D	RES. CHIP (2*1.25)	75	0.5P	1/10W
R76	RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5P	1/10W
R77	RN73FH2A105D	RES. CHIP (2*1.25)	1M	0.5P	1/10W
R78	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R79	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R80	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R81	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R82	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R83	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R84	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R85	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R86	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R87	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R88	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R89	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R90	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R91	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R92	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R93	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R94	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R95	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R96	R92-1650-05	JUMPER WIRE	0		
R97	RN73FH2A111D	RES. CHIP (2*1.25)	110	0.5P	1/10W
R98	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W

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Ref. No	Parts No.	Name & Description			
R99	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R100	RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5P	1/10W
R101	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R102	RN73FH2A431D	RES. CHIP (2*1.25)	430	0.5P	1/10W
R103	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R104	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R105	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R106	R12-3519-05	RES. CHIP (2*1.25)	20K	20%	1/2W
R107	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R108	RN73FH2A561D	RES. CHIP (2*1.25)	560	0.5P	1/10W
R109	RN73FH2A750D	RES. CHIP (2*1.25)	75	0.5P	1/10W
R110	RN73FH2A510D	RES. CHIP (2*1.25)	51	0.5P	1/10W
R111	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R112	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R113	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R114	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
TP1	E23-1512-05	TEST TERMINAL			
TP2	E23-1512-05	TEST TERMINAL			
TP3	E23-1512-05	TEST TERMINAL			
TP4	E23-1512-05	TEST TERMINAL			
TP5	E23-1512-05	TEST TERMINAL			
TP6	E23-1512-05	TEST TERMINAL			
TP7	E23-1512-05	TEST TERMINAL			
U1	TL072CPS	IC, LOW POWER J-FET OP AMP			
U2	MB87086APF	IC, CMOS FREQUENCY SYNTHESIZER			
U3	UPC2711T-E3	IC			
U4	UPC2711T-E3	IC			
U5	TC74HC00AF	IC, QUAD 2-INPUT NAND GATE			
U6	TC74HC74AF	IC, DUAL D-FLIP FLOP WITH PRESET AND CLEAR			
U7	UPC2709T	IC			
U8	TL072CPS	IC, LOW POWER J-FET OP AMP			
U9	UPC2711-E3	IC, LOW NOISE AMP			
U10	UPC2709T	IC			
U12	TL072CPS	IC, LOW POWER J-FET OP AMP			
U13	UPC2711-E3	IC, LOW NOISE AMP			
U14	UPC2711-E3	IC, LOW NOISE AMP			
U15	TD7104F	IC, RECEPTION PRESCALER			
U16	MB87086APF	IC, CMOS FREQUENCY SYNTHESIZER			
U17	MB1507PF	IC, PLL FREQUENCY SYNTHESIZER			
U18	TC4584BF	IC, HEX SCHMITT TRIGGER			
U19	TC4094BF	IC, 8-BIT SHIFT AND STORE BUS REGISTER			
SIGNAL PROCESSOR UNIT (X79-1270-00)					
	J73-0533-02	PCB (UNMOUNTED)			
	F10-2518-04	SHIELD PLATE			
	F10-2519-04	SHIELD PLATE			
	F11-1508-13	SHIELD CASE			
	G02-0617-14	SPRING;LEAF			
	N19-0747-04	WASHER			
C1	CC73FCH1H050CM	CAP. CHIP (2*1.25)	5p	0.25P	50V
C2	CC73FCH1H050CM	CAP. CHIP (2*1.25)	5p	0.25P	50V
C3	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V

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PARTS LIST SG-7200/SG-7130

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C4	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C5	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C6	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C7	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C8	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C9	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C10	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C11	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C12	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C13	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C14	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C15	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C16	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C17	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C18	CC73FCH1H331JM	CAP. CHIP (2*1.25)	330p	5%	50V
C19	CC73FCH1H471JM	CAP. CHIP (2*1.25)	470p	5%	50V
C21	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C22	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C23	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C24	CC73FCH1H121JM	CAP. CHIP (2*1.25)	120p	5%	50V
C27	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C28	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C29	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C30	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C31	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C32	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C33	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C35	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C36	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C37	C90-4515-05	CAP. ELECTRO	4.7u	20%	25V
C38	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C39	CK73FR1H332KMU	CAP. CHIP (2*1.25)	3300p	10%	50V
C40	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C41	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C42	C90-4517-05	CAP. ELECTRO	10u	20%	35V
C43	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C44	CK73EF1C105ZMU	CAP. CHIP (2*1.25)	1u	-20/80%	16V
C47	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C48	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C50	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C51	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C52	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C53	CC73FCH1H010CM	CAP. CHIP (2*1.25)	1p	0.25P	50V
C54	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C55	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C56	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C57	C05-0492-05	CAP. TRIMMER	10p		
C58	CC73FCH1H060DM	CAP. CHIP (2*1.25)	6p	0.5P	50V
C59	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C60	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C61	CC73FCH1H330JM	CAP. CHIP (2*1.25)	33p	5%	50V
C62	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C63	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C64	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C65	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V

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Ref. No	Parts No.	Name & Description			
C66	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C67	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C68	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C69	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C70	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C71	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C72	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C73	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C74	C91-2653-05	CAP. FILM	4.7u	10%	100V
C75	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C76	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C77	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C78	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C80	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C81	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C82	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C83	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C84	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C85	C90-4514-05	CAP. ELECTRO	47u	20%	16V
C86	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C87	CK73FR1H222KMU	CAP. CHIP (2*1.25)	2200p	10%	50V
C88	CC73FCH1H221JM	CAP. CHIP (2*1.25)	220p	5%	50V
C95	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C96	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C97	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C98	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C99	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C103	CC73FCH1H681JM	CAP. CHIP (2*1.25)	680p	5%	50V
D1	1SV242	VARIABLE CAPACITANCE DIODE			
D2	1SV242	VARIABLE CAPACITANCE DIODE			
D3	1SV242	VARIABLE CAPACITANCE DIODE			
D4	1SV242	VARIABLE CAPACITANCE DIODE			
D5	1SS184	DIODE			
D6	1SS184	DIODE			
D7	1SS181	DIODE			
D8	1SS181	DIODE			
D9	1SS184	DIODE			
D11	1SS226	DIDOE			
D12	1SS226	DIDOE			
D13	RD5.1M	DIODE			
D15	1SV242	VARIABLE CAPACITANCE DIODE			
D16	1SV242	VARIABLE CAPACITANCE DIODE			
D18	1SS181	DIODE			
D19	1SS181	DIODE			
D21	1SS226	DIDOE			
D22	1SS226	DIDOE			
D23	RD5.1M	DIODE			
DS1	B30-3029-05	LED; RED			
DS2	B30-3029-05	LED; RED			
DS3	B30-3029-05	LED; RED			
J1	E04-0285-05	RF COAXIAL CONNECTOR			
J2	E04-0285-05	RF COAXIAL CONNECTOR			
L1	L40-1001-81	FERRI INDUCTOR	10uH	10%	
L2	L40-4701-81	FERRI INDUCTOR	47uH	10%	

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L3	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L4	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L5	L40-2281-80	FERRI INDUCTOR	220nH	10%	
L8	L40-4701-81	FERRI INDUCTOR	47uH	10%	
L9	L40-2201-81	FERRI INDUCTOR	22uH	10%	
L10	L40-4701-81	FERRI INDUCTOR	47uH	10%	
L11	L40-8292-81	FERRI INDUCTOR	8.2uH	20%	
L12	L40-1001-81	FERRI INDUCTOR	10uH	10%	
L13	L40-3301-81	FERRI INDUCTOR	33uH	10%	
L14	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L15	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L16	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L18	L40-6801-81	FERRI INDUCTOR	68uH	10%	
L19	L37-0073-05	COIL			
L20	L37-0073-05	COIL			
L21	L40-3982-81	FERRI INDUCTOR	390nH	20%	
M1	L14-0109-15	MODULATION TRANSFORMER			
Q1	2SC3098	TR. SI, NPN			
Q2	2SC3098	TR. SI, NPN			
Q3	2SK208(GR)	FET			
Q4	2SC2712	TR. SI, NPN			
Q5	2SC2712	TR. SI, NPN			
Q8	2SK1577(P2)	FET			
Q9	2SK1577(P2)	FET			
Q10	RN1403	TR. SI, NPN			
Q11	RN1403	TR. SI, NPN			
R1	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
R2	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R3	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R4	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R5	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R6	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R7	RN73FH2A333D	RES. CHIP (2*1.25)	33K	0.5P	1/10W
R8	RN73FH2A333D	RES. CHIP (2*1.25)	33K	0.5P	1/10W
R9	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W
R10	RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5P	1/10W
R11	RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5P	1/10W
R12	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R13	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
R14	R92-1650-05	JUMPER WIRE	0		
R15	RN73FH2A511D	RES. CHIP (2*1.25)	510	0.5P	1/10W
R16	RN73FH2A911D	RES. CHIP (2*1.25)	910	0.5P	1/10W
R18	RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5P	1/10W
R19	R92-1650-05	JUMPER WIRE	0		
R20	RN73FH2A680D	RES. CHIP (2*1.25)	68	0.5P	1/10W
R22	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R23	RN73FH2A822D	RES. CHIP (2*1.25)	8.2K	0.5P	1/10W
R24	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R25	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R26	RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5P	1/10W
R27	RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5P	1/10W
R29	RN73FH2A132D	RES. CHIP (2*1.25)	1.3K	0.5P	1/10W
R30	RN73FH2A391D	RES. CHIP (2*1.25)	390	0.5P	1/10W
R31	RN73FH2A132D	RES. CHIP (2*1.25)	1.3K	0.5P	1/10W
R32	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W

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R32	RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5P	1/10W
R33	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R34	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R35	RN73FH2A681D	RES. CHIP (2*1.25)	680	0.5P	1/10W
R36	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R37	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R38	R32-0852-05	RES. SEMI FIXED	100K	20%	1/2W
R39	RN73FH2A333D	RES. CHIP (2*1.25)	33K	0.5P	1/10W
R40	RN73FH2A202D	RES. CHIP (2*1.25)	2K	0.5P	1/10W
R41	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R42	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R43	RN73FH2A681D	RES. CHIP (2*1.25)	680	0.5P	1/10W
R44	RN73FH2A913D	RES. CHIP (2*1.25)	91K	0.5P	1/10W
R45	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R46	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R47	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R48	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R49	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R50	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R51	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W
R52	RN73FH2A181D	RES. CHIP (2*1.25)	180	0.5P	1/10W
R53	RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5P	1/10W
R54	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R55	RN73FH2A431D	RES. CHIP (2*1.25)	430	0.5P	1/10W
R56	RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5P	1/10W
R57	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R58	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R59	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R60	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R61	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R62	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R63	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R64	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R65	RN73FH2A681D	RES. CHIP (2*1.25)	680	0.5P	1/10W
R66	RN73FH2A622D	RES. CHIP (2*1.25)	6.2K	0.5P	1/10W
R67	RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5P	1/10W
R68	R12-1523-05	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R69	RN73FH2A223D	RES. CHIP (2*1.25)	22K	0.5P	1/10W
R70	RN73FH2A105D	RES. CHIP (2*1.25)	1M	0.5P	1/10W
R71	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R72	RN73FH2A471D	RES. CHIP (2*1.25)	470	0.5P	1/10W
R73	RN73FH2A680D	RES. CHIP (2*1.25)	68	0.5P	1/10W
R74	RN73FH2A680D	RES. CHIP (2*1.25)	68	0.5P	1/10W
R75	RN73FH2A680D	RES. CHIP (2*1.25)	68	0.5P	1/10W
R76	RN73FH2A304D	RES. CHIP (2*1.25)	300K	0.5P	1/10W
R77	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R78	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R79	RN73FH2A682K	RES. CHIP (2*1.25)	6.8K	0.5P	1/10W
R80	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R81	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R82	RN73FH2A473D	RES. CHIP (2*1.25)	47K	0.5P	1/10W
R83	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R84	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R85	RN73FH2A333D	RES. CHIP (2*1.25)	33K	0.5P	1/10W
R86	R12-3527-05	RES. SEMI FIXED	10K	20%	1/2W

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PARTS LIST

SG-7200/SG-7130

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Ref. No	Parts No.	Name & Description			
R87	RN73FH2A333D	RES. CHIP (2*1.25)	33K	0.5P	1/10W
R88	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R89	RN73FH2A105D	RES. CHIP (2*1.25)	1M	0.5P	1/10W
R90	RN73FH2A431D	RES. CHIP (2*1.25)	430	0.5P	1/10W
R91	RB73FH2A910D	RES. CHIP (2*1.25)	91	0.5P	1/10W
R92	RN73FH2A100D	RES. CHIP (2*1.25)	10	0.5P	1/10W
R93	R12-1530-05	RES. SEMI FIXED	2K	20%	1/2W
R94	R12-0589-05	RES. SEMI FIXED	200	20%	1/2W
R95	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R96	R12-4511-05	RES. SEMI FIXED	50K	0.5P	1/10W
R97	RN73FH2A183D	RES. SEMI FIXED	18K	0.5P	1/10W
R98	RN73FH2A183D	RES. SEMI FIXED	18K	0.5P	1/10W
R99	RN73FH2A183D	RES. SEMI FIXED	18K	0.5P	1/10W
R100	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5P	1/10W
R101	RN73FH2A183D	RES. SEMI FIXED	18K	0.5P	1/10W
R102	RN73FH2A183D	RES. SEMI FIXED	18K	0.5P	1/10W
R103	RN73FH2A183D	RES. SEMI FIXED	18K	0.5P	1/10W
R104	R92-1651-05	RESISTOR	1K		
R105	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5P	1/10W
R106	RN73FH2A623D	RES. CHIP (2*1.25)	62K	0.5P	1/10W
R107	RN73FH2A271D	RES. CHIP (2*1.25)	270	0.5P	1/10W
R108	RN73FH2A220D	RES. CHIP (2*1.25)	22	0.5P	1/10W
R111	RN73FH2A431D	RES. CHIP (2*1.25)	430	0.5P	1/10W
R112	RN73FH2A240D	RES. CHIP (2*1.25)	24	0.5P	1/10W
R113	RN73FH2A330D	RES. CHIP (2*1.25)	33	0.5P	1/10W
R114	RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5P	1/10W
R115	R12-1523-05	RES. SEMI FIXED	1K	20%	1/2W
R116	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R117	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R118	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R119	RN73FH2A104D	RES. CHIP (2*1.25)	100K	0.5P	1/10W
R120	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R121	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R122	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R123	RN73FH2A681D	RES. CHIP (2*1.25)	680	0.5P	1/10W
R124	RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5P	1/10W
R126	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	0.5P	1/10W
R127	RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5P	1/10W
R128	RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5P	1/10W
R129	RN73FH2A240D	RES. CHIP (2*1.25)	24	0.5P	1/10W
TP1	E23-1512-05	TEST TERMINAL			
TP2	E23-1512-05	TEST TERMINAL			
TP3	E23-1512-05	TEST TERMINAL			
TP4	E23-1512-05	TEST TERMINAL			
TP5	E23-1512-05	TEST TERMINAL			
TP6	E23-1512-05	TEST TERMINAL			
TP7	E23-1512-05	TEST TERMINAL			
U1	UPC2711T-E3	IC, LOW NOISE AMP			
U2	UPC2709T	IC			
U3	UPC2711T-E3	IC, LOW NOISE AMP			
U4	UPC2712T	IC			
U5	UPA101G	IC, NPN TRANSISTOR ARRAY			
U6	TC4013BF	IC, DUAL D-TYPE FLIP FLOP			
U7	NJM5534M	IC, DUAL OP AMP			
U8	NJM4559M	IC, DUAL OP AMP			

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Ref. No	Parts No.	Name & Description			
U9	MAX543BCSA	IC, 12-BIT D/A CONVERTER			
U10	NJM4559M	IC, DUAL OP AMP			
U11	TD7104F	IC, RECEPTION PRESCALER			
U12	HD74HC4518FP	IC, DUAL DECADE COUNTER			
U13	TC74HC32AF	IC, QUAD 2-INPUT OR GATE			
U14	TC74HC74AF	IC, DUAL D-FLIP FLOP WITH PRESET AND CLEAR			
U15	TC74HC107AF	IC, DUAL J-K FLIP FLOP WITH CLEAR			
U16	HD74HC4518FP	IC, DUAL DECADE COUNTER			
U17	TC74HC08AF	IC, QUAD 2-INPUT AND GATE			
U18	HD74HC4518FP	IC, DUAL DECADE COUNTER			
U19	TC74HC00AF	IC, QUAD 2-INPUT NAND GATE			
U20	TC74HC4053AF	IC, TRIPLE 2-CH ANALOG MULTIPLEXER			
U21	TL072CPS	IC, LOW POWER J-FET INPUT OP AMP			
U22	NJM4559M	IC, DUAL OP AMP			
U23	NJM4559M	IC, DUAL OP AMP			
U24	TC4584BF	IC, HEX SCHMITT TRIGGER			
U25	TC4094BF	IC			
U26	NJU201AM	IC			
U28	UPC2712T	IC			
SIGNAL PROCESSOR UNIT (X79-1280-00)					
	J73-0533-02	PCB (UNMOUNTED)			
	F10-2518-04	SHIELD PLATE			
	F11-1509-13	SHIELD CASE			
	J32-1247-04	BOSS, HEX			
	N10-2030-41	NUT, HEX			
	N16-0030-41	SPRING WASHER			
	N19-0747-04	WASHER			
	N35-3004-41	SCREW, BINDING HD (M3*4)			
C1	CK73EF1C105ZMU	CAP. CHIP (2*1.25)	1u	-20/80%	16V
C3	CQ92HP2A332F	CAP. PLASTIC	3300p	1%	100V
C4	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C5	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C6	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C7	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C8	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C9	CC73FCH1H221JM	CAP. CHIP (2*1.25)	220p	5%	50V
C10	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C11	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C12	CC73FCH1H040CM	CAP. CHIP (2*1.25)	4p	0.25P	50V
C13	CC73FCH1H101JM	CAP. CHIP (2*1.25)	100p	5%	50V
C14	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C15	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C16	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C17	CC73FCH1H120JM	CAP. CHIP (2*1.25)	12p	5%	50V
C18	CC73FCH1H080DM	CAP. CHIP (2*1.25)	8p	0.5P	50V
C19	CC73FCH1H010CM	CAP. CHIP (2*1.25)	1p	0.25P	50V
C20	CC73FCH1H120JM	CAP. CHIP (2*1.25)	12p	5%	50V
C21	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C22	CC73FCH1H151JM	CAP. CHIP (2*1.25)	150p	5%	50V
C23	CC73FCH1H820JM	CAP. CHIP (2*1.25)	82p	5%	50V
C24	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C26	CC73FCH1H560JM	CAP. CHIP (2*1.25)	56p	5%	50V

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C27	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C28	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C29	CC73FCH1H030CM	CAP. CHIP (2*1.25)	3p	0.25P	50V
C30	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
C31	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C32	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C33	CC73FCH1H020CM	CAP. CHIP (2*1.25)	2p	0.25P	50V
C34	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C35	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C36	C90-4513-05	CAP. ELECTRO	10u	20%	16V
C37	C05-0376-05	CAP. TRIMMER	6p		
C38	CC73FCH1H150JM	CAP. CHIP (2*1.25)	15p	5%	50V
C39	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C40	CC73FCH1H020CM	CAP. CHIP (2*1.25)	2p	0.25P	50V
C41	C05-0376-05	CAP. TRIMMER	6p		
C42	CC73FCH1H120JM	CAP. CHIP (2*1.25)	12p	5%	50V
C43	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C46	CC73FCH1H150JM	CAP. CHIP (2*1.25)	15p	5%	50V
C47	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C48	CK73FF1E104ZMU	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C49	C05-0494-05	CAP. TRIMMER	3p		
C50	CC73FCH1H120JM	CAP. CHIP (2*1.25)	12p	5%	50V
C51	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C52	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C53	C90-4518-05	CAP. ELECTRO	100u	20%	16V
C54	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C55	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C56	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C57	CK73EF1C105ZMU	CAP. CHIP (2*1.25)	1u	-20/80%	16V
C58	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C59	CC73FCH1H220JM	CAP. CHIP (2*1.25)	22p	5%	50V
C62	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C65	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C67	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C69	CC73FCH1H040CM	CAP. CHIP (2*1.25)	4p	0.25P	50V
C70	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C71	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C72	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C73	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C74	CC73FCH1H180JM	CAP. CHIP (2*1.25)	18p	5%	50V
C75	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C76	CK73FF1H473ZMU	CAP. CHIP (2*1.25)	0.047u	-20/80%	50V
C77	CC73FCH1H221JM	CAP. CHIP (2*1.25)	220p	5%	50V
C78	CC73FCH1H060DM	CAP. CHIP (2*1.25)	6p	0.5P	50V
C79	CC73FCH1H020CM	CAP. CHIP (2*1.25)	2p	0.25P	50V
C81	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C82	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C83	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C84	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C85	CC73FCH1H050CM	CAP. CHIP (2*1.25)	5p	0.25P	50V
C88	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C89	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C90	CK73FR1H102KMU	CAP. CHIP (2*1.25)	1000p	10%	50V
C92	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V
C93	CK73FR1H103KMU	CAP. CHIP (2*1.25)	0.01u	10%	50V

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C95	CC73FCH1H040CM	CAP. CHIP (2*1.25)	4p	0.25P	50V
C96	CC73FCH1H150JM	CAP. CHIP (2*1.25)	15p	5%	50V
C97	CC73FCH1H100DM	CAP. CHIP (2*1.25)	10p	0.5P	50V
C98	CC73FCH1H050CM	CAP. CHIP (2*1.25)	5p	0.25P	50V
C99	CC73FCH1H150JM	CAP. CHIP (2*1.25)	15p	5%	50V
C100	CC73FCH1H020CM	CAP. CHIP (2*1.25)	2p	0.25P	50V
C118	CC73FCH1H470JM	CAP. CHIP (2*1.25)	47p	5%	50V
D1	MMD-0833	DIODE			
D2	HSB88WS	DIODE			
D3	1SS184	DIODE			
D4	1SS184	DIODE			
D5	1SS184	DIODE			
D6	1SS184	DIODE			
D7	1SS184	DIODE			
D8	1SS184	DIODE			
D9	1SS184	DIODE			
D12	1SS181	DIODE			
D13	1SS181	DIODE			
D14	RD5.1M	DIODE			
D15	1SS184	DIODE			
D16	1SS181	DIODE			
DS1	B30-3029-05	LED; RED			
J1	E04-0287-05	RF COAXIAL CONNECTOR			
J2	E04-0287-05	RF COAXIAL CONNECTOR			
J3	E04-0285-05	RF COAXIAL CONNECTOR			
J4	E04-0285-05	RF COAXIAL CONNECTOR			
L3	L40-1081-80	FERRI INDUCTOR	100nH	10%	
L4	L40-4771-80	FERRI INDUCTOR	47nH	10%	
L5	L40-4771-80	FERRI INDUCTOR	47nH	10%	
L6	L40-1581-80	FERRI INDUCTOR	150nH	10%	
L7	L33-0742-05	FERRI INDUCTOR	10uH	10%	
L8	L40-3972-80	FERRI INDUCTOR	39nH	20%	
L9	L40-6871-80	FERRI INDUCTOR	68nH	10%	
L12	L37-0074-05	COIL			
L13	L37-0074-05	COIL			
L14	L37-0076-05	COIL			
L15	L37-0076-05	COIL			
L20	L33-0742-05	FERRI INDUCTOR	10uH	10%	
L21	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L22	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L23	L33-0835-05	FERRI INDUCTOR	100uH	10%	
L24	L40-1092-81	FERRI INDUCTOR	1u	20%	
L25	L40-1092-81	FERRI INDUCTOR	1u	20%	
L28	L40-1281-80	FERRI INDUCTOR	120nH	10%	
L29	L40-1581-80	FERRI INDUCTOR	150nH	10%	
L30	L40-1581-80	FERRI INDUCTOR	150nH	10%	
L31	L40-5671-80	FERRI INDUCTOR	56nH	10%	
L32	L33-0836-05	FERRI INDUCTOR	220uH	10%	
L33	L33-0742-05	FERRI INDUCTOR	10uH	10%	
L34	L40-1001-81	FERRI INDUCTOR	10u	10%	
L37	L40-1001-81	FERRI INDUCTOR	10u	10%	
L38	L37-0075-05	COIL			
L45	L40-1001-81	FERRI INDUCTOR	10u	10%	
M1	L14-0108-05	MODULATION TRANSFORMER			

L : Scandinavia
 Y : PX(Far East,Hawaii)
 Y : AAFES(Europe)
 K : USA
 T : England
 X : Australia
 P : Canada
 E : Europe
 M : Other Areas
 R : Mexico
 G : Germany

△ indicates safety critical components.

PARTS LIST SG-7200/SG-7130

* New Parts
Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

21

Ref. No	Parts No.	Name & Description				
Q2	2SK1577(P2)	FET				
Q3	2SA1162(O)	TR. SI, PNP				
Q5	2SC2712	TR. SI, NPN				
Q6	2SC3099	TR. SI, NPN				
Q7	2SA1162(O)	TR. SI, PNP				
Q8	2SK208(GR)	FET				
Q9	RN1403	TR. SI, NPN				
R1	RN73FH2A431D	RES. CHIP (2*1.25)	430	1%	1/10W	
R2	RN73FH2A100D	RES. CHIP (2*1.25)	10	1%	1/10W	
R3	RN73FH2A431D	RES. CHIP (2*1.25)	430	1%	1/10W	
R4	RN73FH2A183D	RES. CHIP (2*1.25)	18K	1%	1/10W	
R5	RN73FH2A470D	RES. CHIP (2*1.25)	47	1%	1/10W	
R6	RN73FH2A510D	RES. CHIP (2*1.25)	51	1%	1/10W	
R8	RN73FH2A221D	RES. CHIP (2*1.25)	220	1%	1/10W	
R9	RN73FH2A221D	RES. CHIP (2*1.25)	220	1%	1/10W	
R10	RN73FH2A153D	RES. CHIP (2*1.25)	15K	1%	1/10W	
R11	RN73FH2A153D	RES. CHIP (2*1.25)	15K	1%	1/10W	
R12	RN73FH2A510D	RES. CHIP (2*1.25)	51	1%	1/10W	
R13	RN73FH2A102D	RES. CHIP (2*1.25)	1K	1%	1/10W	
R14	RN73FH2A510D	RES. CHIP (2*1.25)	51	1%	1/10W	
R15	RN73FH2A471D	RES. CHIP (2*1.25)	470	1%	1/10W	
R16	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R17	RN73FH2A471D	RES. CHIP (2*1.25)	470	1%	1/10W	
R18	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R19	RN73FH2A471D	RES. CHIP (2*1.25)	470	1%	1/10W	
R20	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R21	RN73FH2A471D	RES. CHIP (2*1.25)	470	1%	1/10W	
R22	RN73FH2A151D	RES. CHIP (2*1.25)	150	1%	1/10W	
R23	RN73FH2A471D	RES. CHIP (2*1.25)	470	1%	1/10W	
R24	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R25	RN73FH2A471D	RES. CHIP (2*1.25)	470	1%	1/10W	
R26	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R27	RN73FH2A471D	RES. CHIP (2*1.25)	470	1%	1/10W	
R29	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R30	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R31	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R32	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R33	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R34	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R35	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R36	RN73FH2A102D	RES. CHIP (2*1.25)	1K	1%	1/10W	
R37	RN73FH2A151D	RES. CHIP (2*1.25)	150	1%	1/10W	
R38	RN73FH2A221D	RES. CHIP (2*1.25)	220	1%	1/10W	
R39	RN73FH2A100D	RES. CHIP (2*1.25)	10	1%	1/10W	
R40	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	1%	1/10W	
R41	RN73FH2A221D	RES. CHIP (2*1.25)	220	1%	1/10W	
R48	RN73FH2A221D	RES. CHIP (2*1.25)	220	1%	1/10W	
R50	RN73FH2A102D	RES. CHIP (2*1.25)	1K	1%	1/10W	
R53	RN73FH2A102D	RES. CHIP (2*1.25)	1K	1%	1/10W	
R54	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R55	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R56	RN73FH2A224D	RES. CHIP (2*1.25)	220K	1%	1/10W	
R57	RN73FH2A334D	RES. CHIP (2*1.25)	330K	1%	1/10W	
R58	R12-4511-05	RES. SEMI FIXED	50K	1%	1/10W	
R59	RN73FH2A221D	RES. CHIP (2*1.25)	220	1%	1/10W	

L : Scandinavia K : USA P : Canada R : Mexico
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Y : AAFES(Europe) X : Australia M : Other Areas

⚠ indicates safety critical components .

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

22

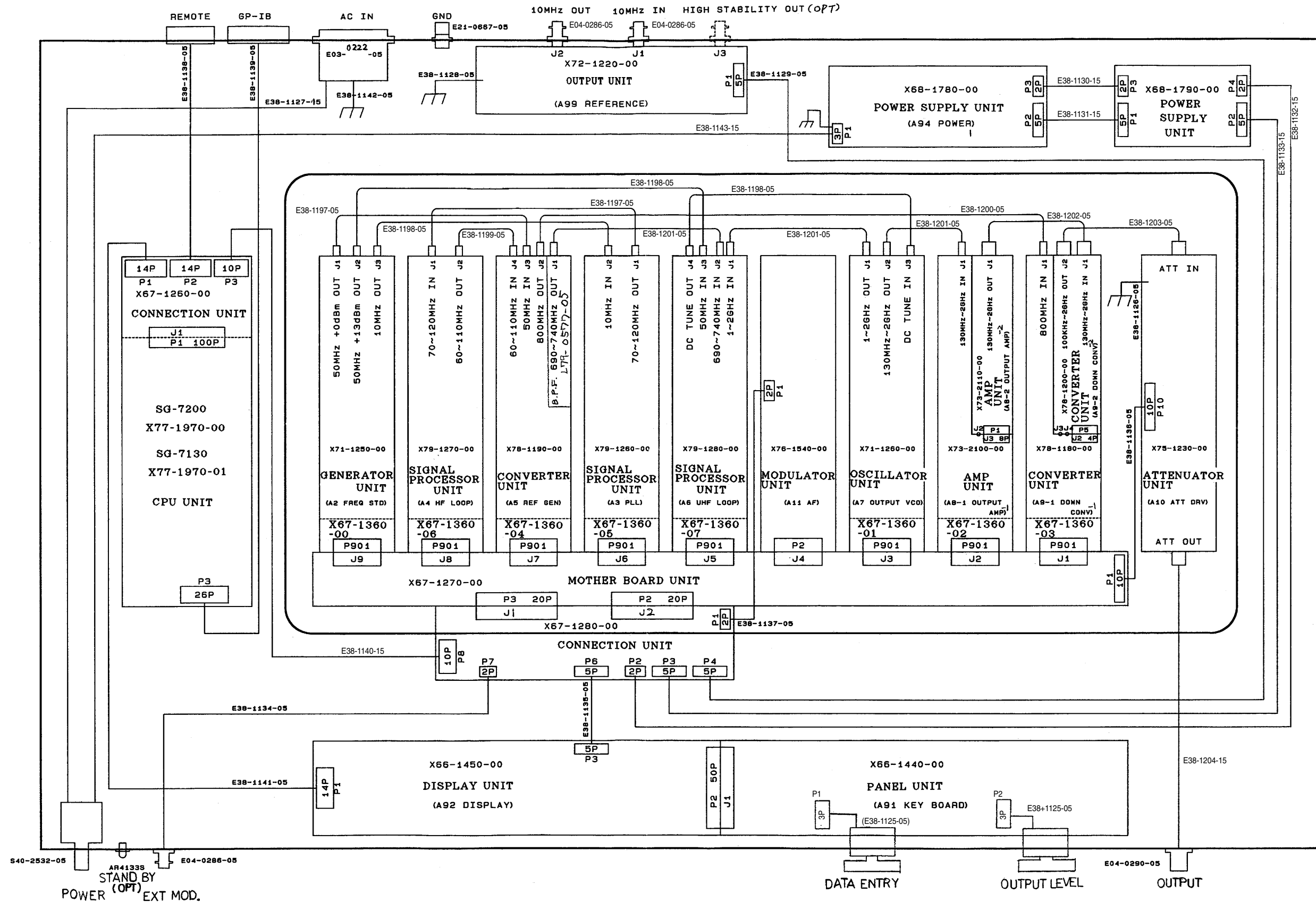
Ref. No	Parts No.	Name & Description				
R60	RN73FH2A271D	RES. CHIP (2*1.25)	270	1%	1/10W	
R61	RN73FH2A102D	RES. CHIP (2*1.25)	1K	1%	1/10W	
R62	RN73FH2A100D	RES. CHIP (2*1.25)	10	1%	1/10W	
R63	RN73FH2A431D	RES. CHIP (2*1.25)	430	1%	1/10W	
R64	RN73FH2A100D	RES. CHIP (2*1.25)	10	1%	1/10W	
R65	RN73FH2A221D	RES. CHIP (2*1.25)	220	1%	1/10W	
R66	RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	1%	1/10W	
R67	RN73FH2A222D	RES. CHIP (2*1.25)	2.2K	1%	1/10W	
R68	RN73FH2A431D	RES. CHIP (2*1.25)	430	1%	1/10W	
R69	RN73FH2A271D	RES. CHIP (2*1.25)	270	1%	1/10W	
R70	RN73FH2A104D	RES. CHIP (2*1.25)	100K	1%	1/10W	
R71	RN73FH2A104D	RES. CHIP (2*1.25)	100K	1%	1/10W	
R72	RN73FH2A104D	RES. CHIP (2*1.25)	100K	1%	1/10W	
R73	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R74	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R75	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R78	RN73FH2A103D	RES. CHIP (2*1.25)	10K	1%	1/10W	
R79	R12-3528-05	RES. SEMI FIXED	20K	20%	1/2W	
R80	R12-3527-05	RES. SEMI FIXED	10K	20%	1/2W	
R81	RN73FH2A224D	RES. CHIP (2*1.25)	220K	1%	1/10W	
R82	RN73FH2A104D	RES. CHIP (2*1.25)	100K	1%	1/10W	
R83	RN73FH2A102D	RES. CHIP (2*1.25)	1K	1%	1/10W	
R84	RN73FH2A510D	RES. CHIP (2*1.25)	51	1%	1/10W	
R85	RN73FH2A121D	RES. CHIP (2*1.25)	120	1%	1/10W	
R86	RN73FH2A300D	RES. CHIP (2*1.25)	30	1%	1/10W	
R87	RN73FH2A121D	RES. CHIP (2*1.25)	120	1%	1/10W	
R90	RN73FH2A22D	RES. CHIP (2*1.25)	22	1%	1/10W	
R91	RN73FH2A104D	RES. CHIP (2*1.25)	100K	1%	1/10W	
T1	L39-1404-05	TOROIDAL COIL				
TP1	E23-1512-05	TEST TERMINAL				
TP2	E40-7505-05	CONNECTOR				
TP3	E40-7505-05	CONNECTOR				
U1	TC7584BF	IC				
U2	TC4094BF	IC, 8-BIT SHIFT AND STORE BUS REGISTER				
U3	DAC08ED	IC				
U4	TC4013BF	IC, DUAL D-TYPE FLIP FLOP				
U5	NJM4559M	IC, DUAL OP AMP				
U6	NJM4559M	IC, DUAL OP AMP				
U7	NJM4559M	IC, DUAL OP AMP				
U9	TC4094BF	IC, 8-BIT SHIFT AND STORE BUS REGISTER				
U10	UPA2003GR	IC				
U11	UPC2708T	IC, LOW NOISE AMP				
U12	UPB584G	IC, HIGH SPEED PRESCALER				

L : Scandinavia K : USA P : Canada R : Mexico
Y : PX(Far East,Hawaii) T : England E : Europe G : Germany
Y : AAFES(Europe) X : Australia M : Other Areas

⚠ indicates safety critical components .

SG-7200(Y76-1030-00)
 SG-7130(Y76-1030-01)

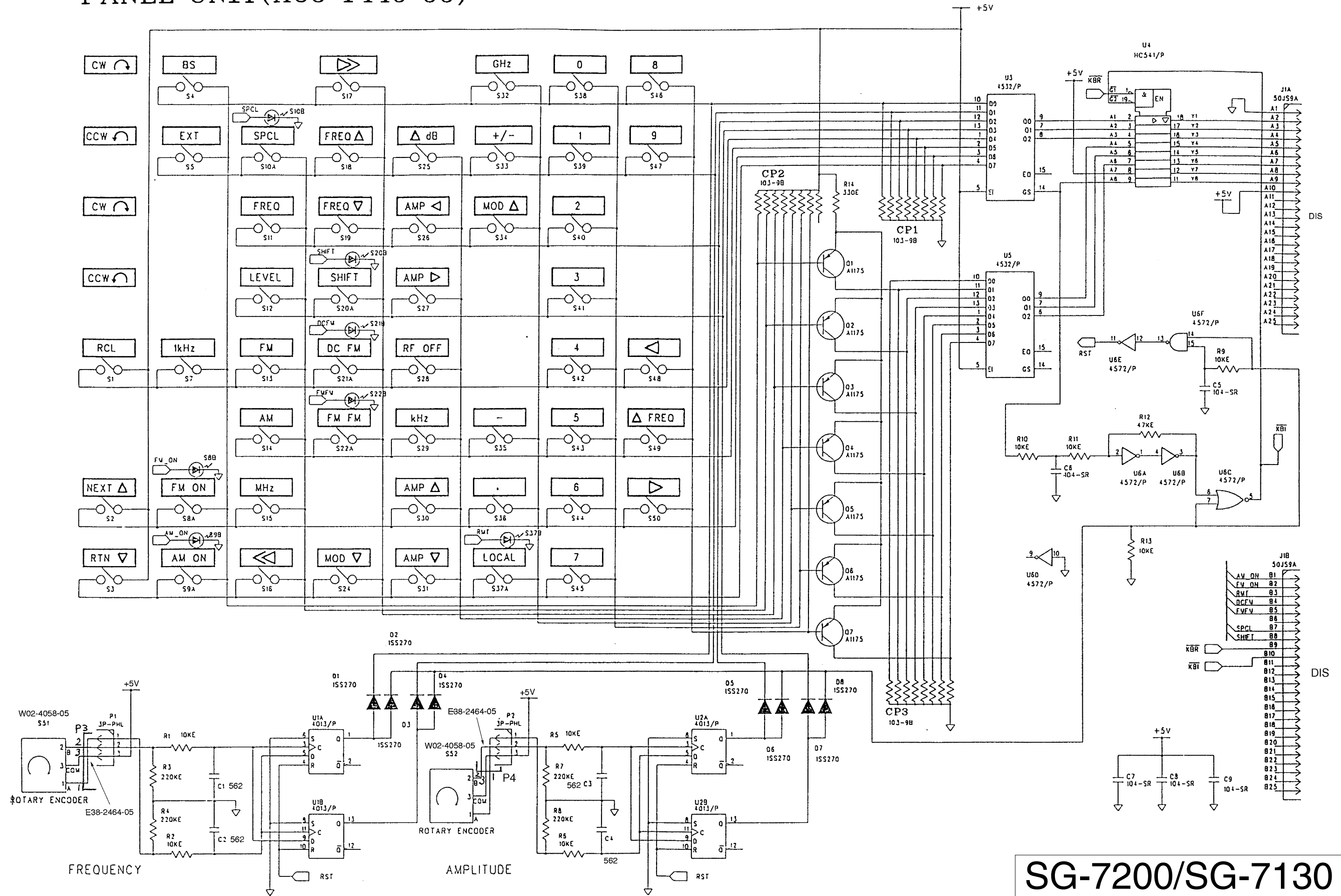
SCHEMATIC DIAGRAM



SG-7200/SG-7130

KENWOOD

PANEL UNIT(X66-1440-00)



SG-7200/SG-7130
KENWOOD

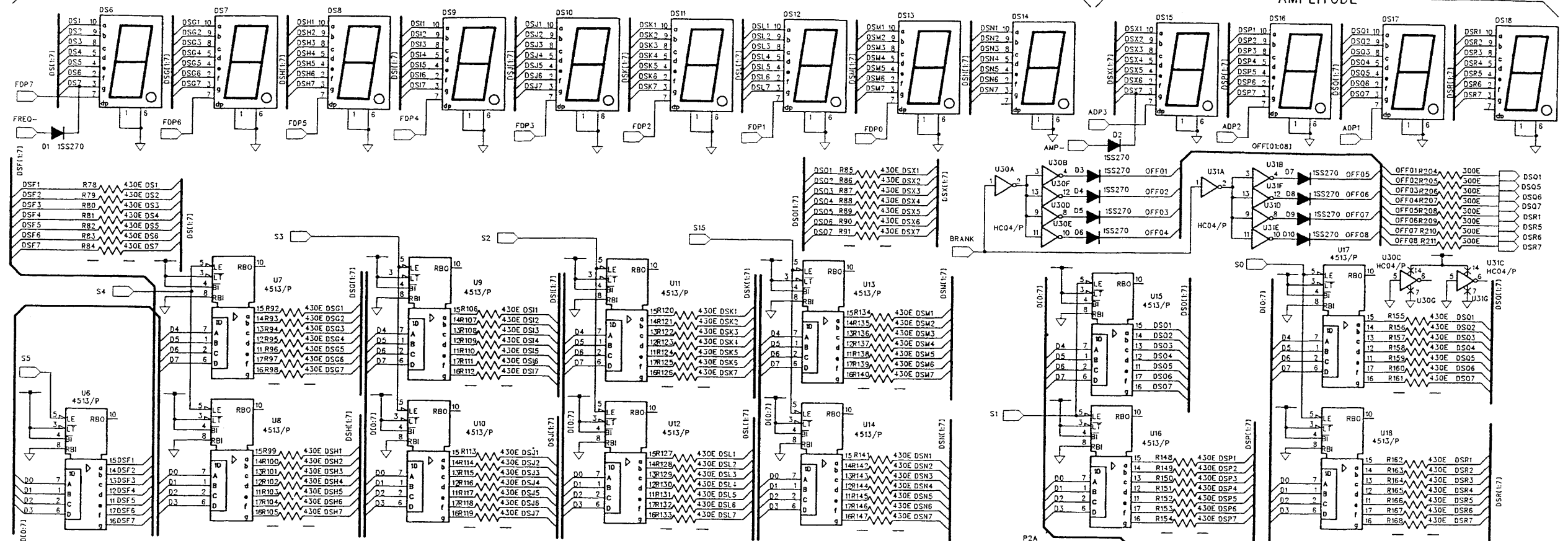
DISPLAY UNIT

(X66-1450-00)A/2(S/No.7050001~)

- J11
- J12
- J13
- J14
- J15
- J16
- J17
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- J35
- J36

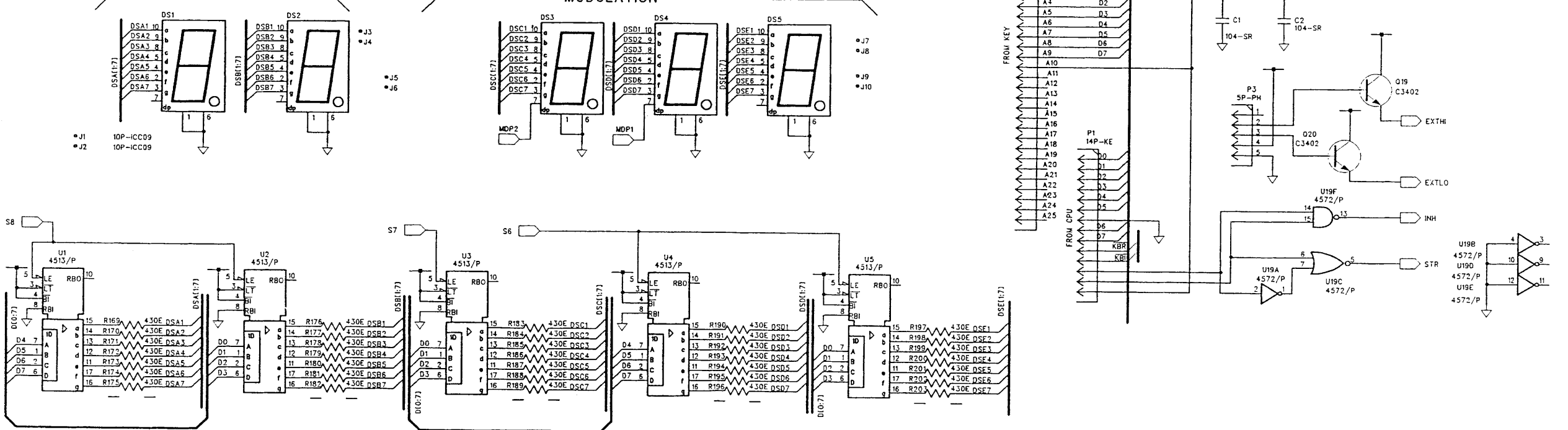
FREQUENCY

AMPLITUDE



MEMORY

MODULATION

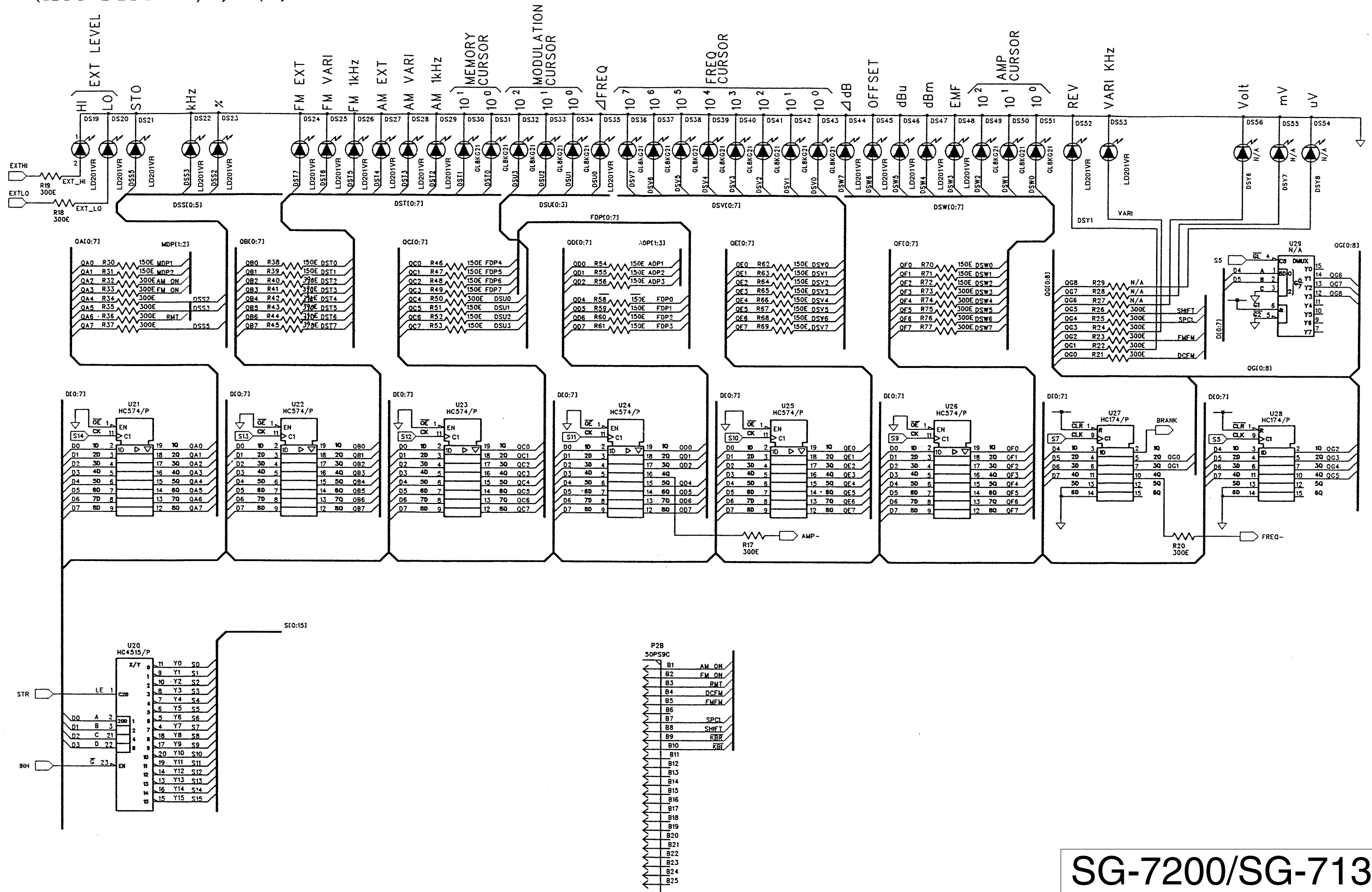


SG-7200/SG-7130

KENWOOD

DISPLAY UNIT

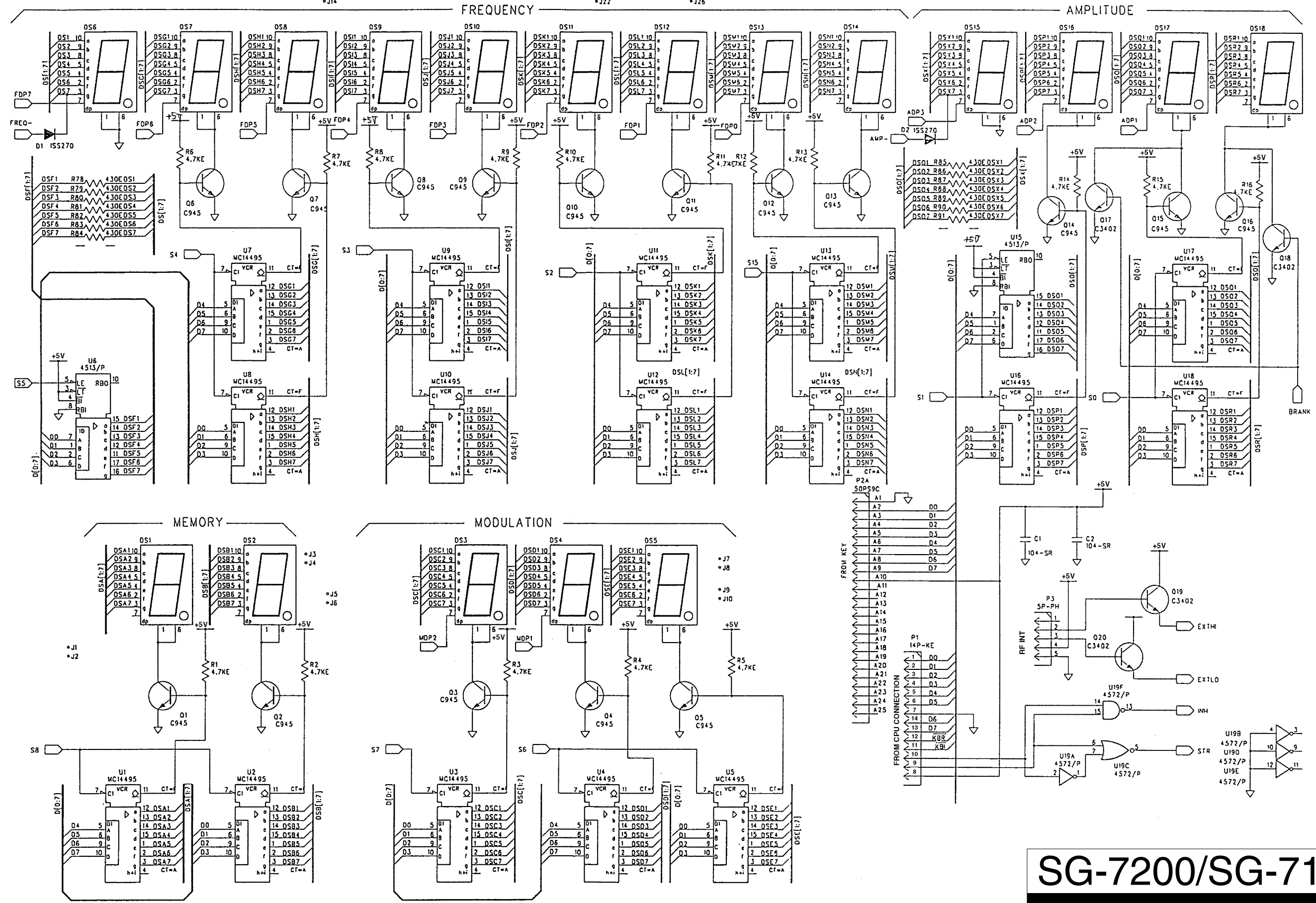
(X66-1450-00)B/2(S/No.7050001~)



SG-7200/SG-7130
KENWOOD

DISPLAY UNIT (X66-1450-00)A/2

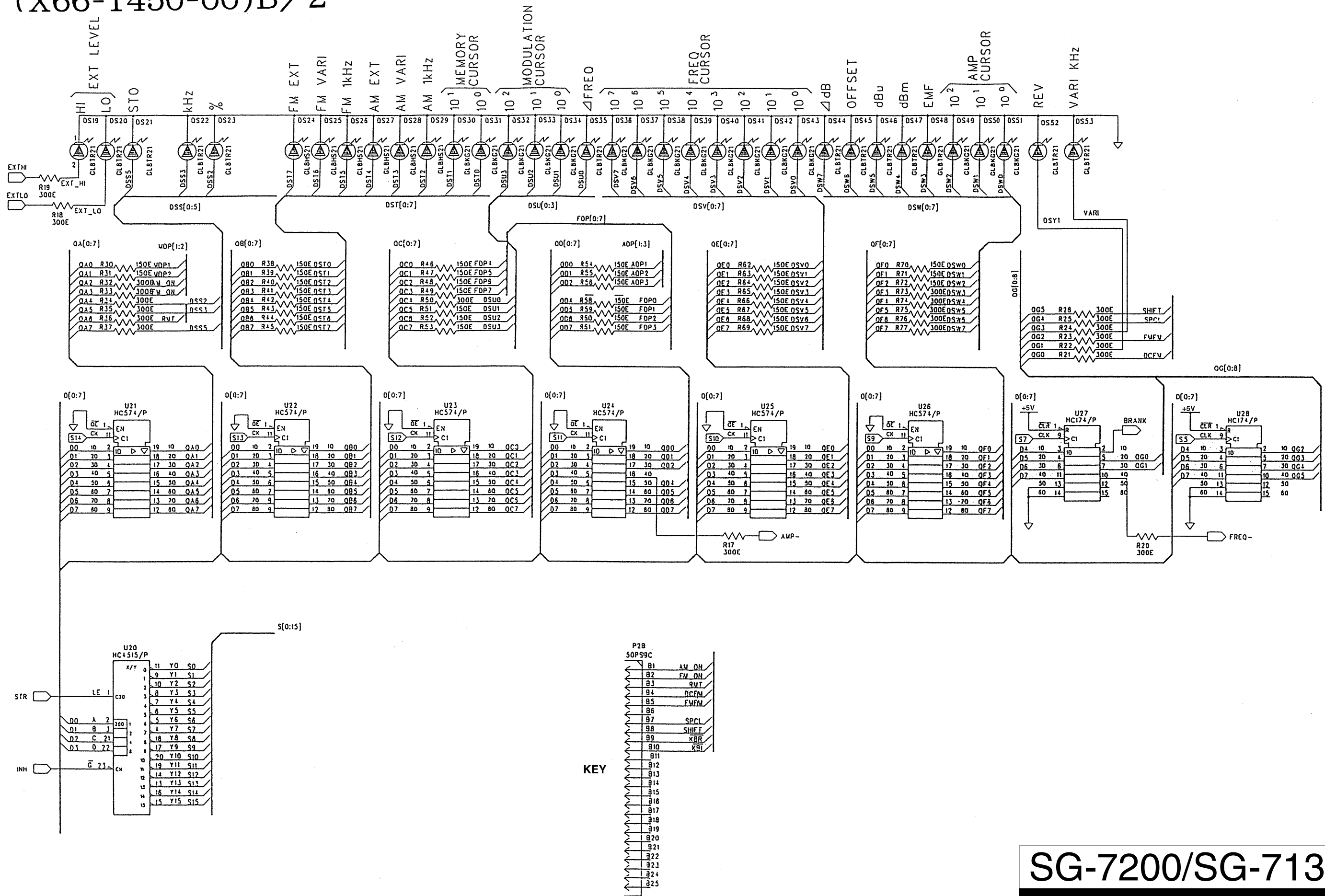
- J11
- J12
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- J14
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- J18
- J19
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- J33
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- J35
- J36



SG-7200/SG-7130

KENWOOD

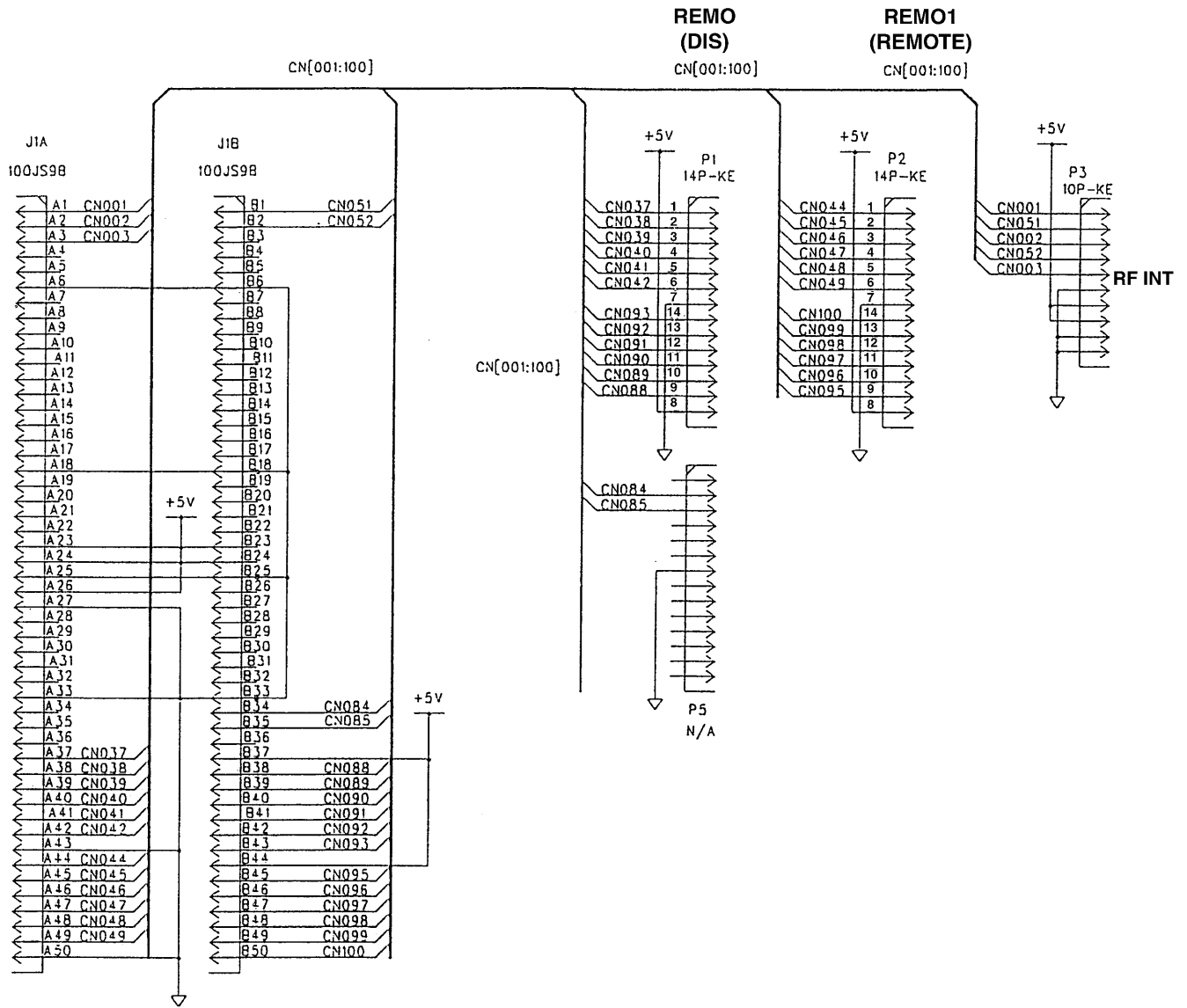
DISPLAY UNIT (X66-1450-00)B/2



SG-7200/SG-7130
KENWOOD

CONNECTION UNIT(X67-1260-00)

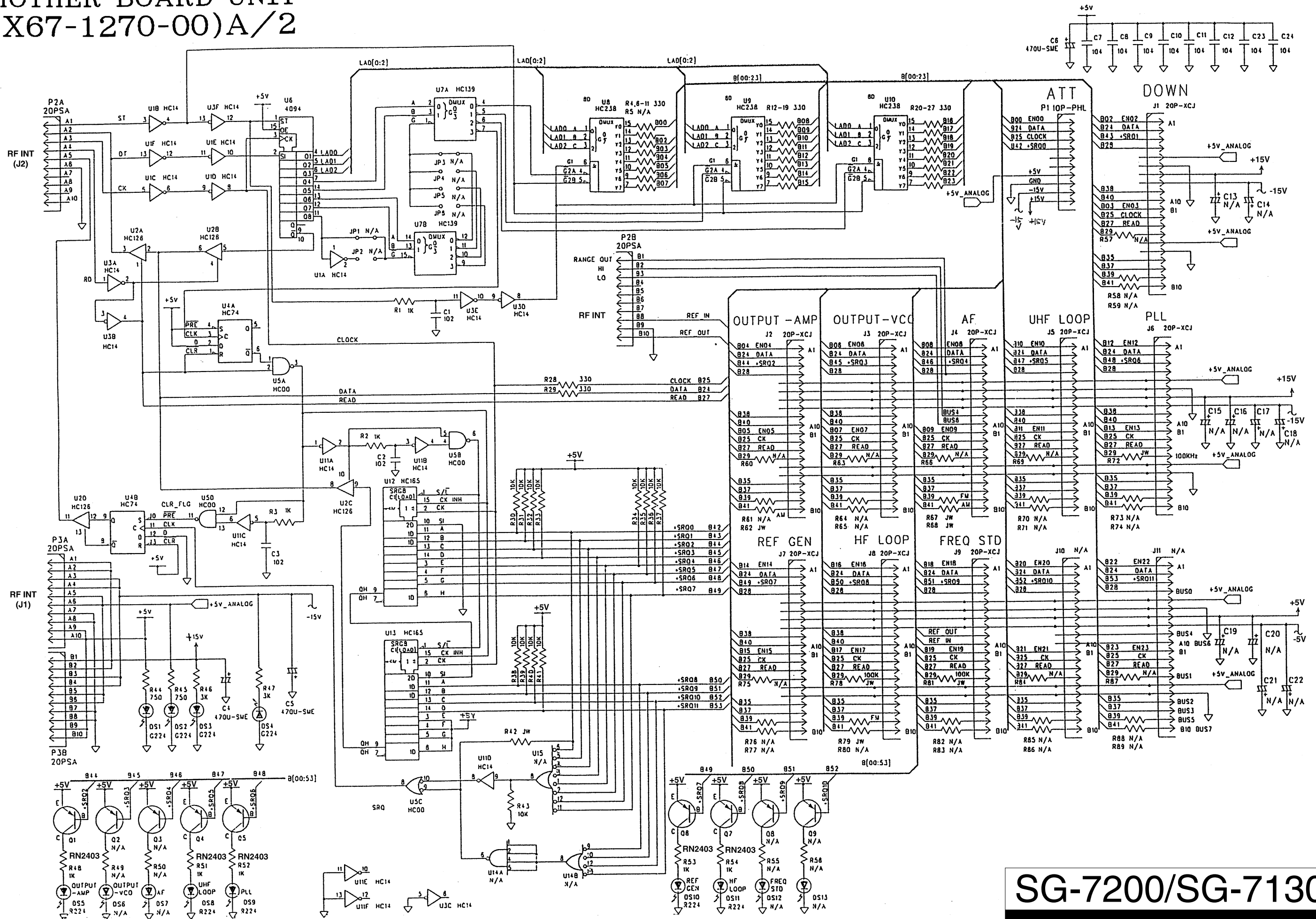
1
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7



SG-7200/SG-7130

KENWOOD

MOTHER BOARD UNIT (X67-1270-00)A/2



SG-7200/SG-7130
KENWOOD

MOTHER BOARD UNIT (X67-1270-00)B/2

1

2

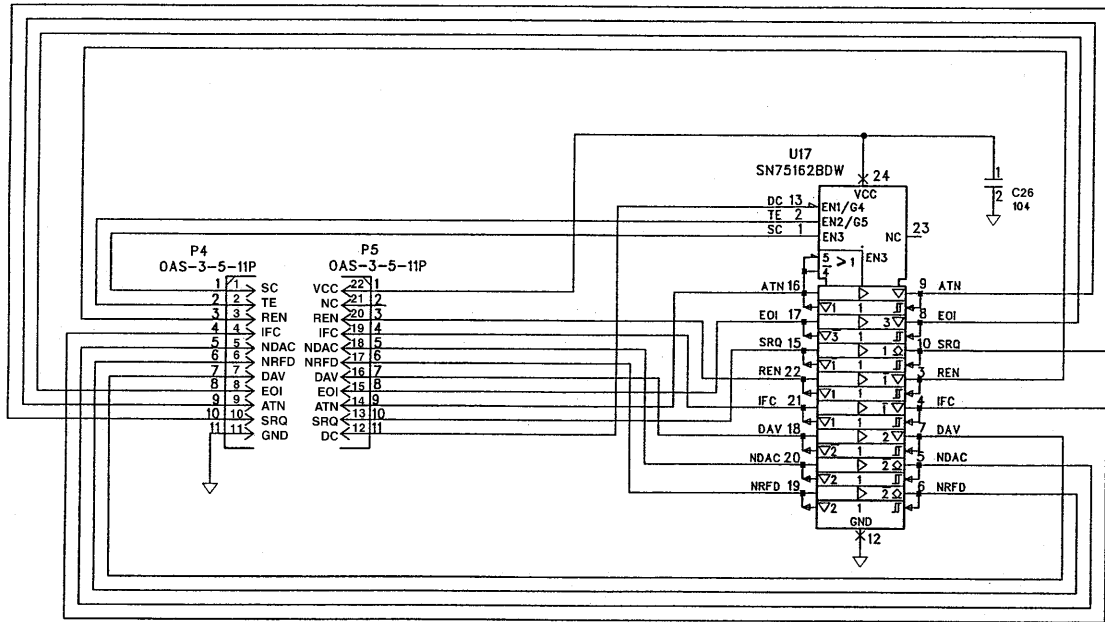
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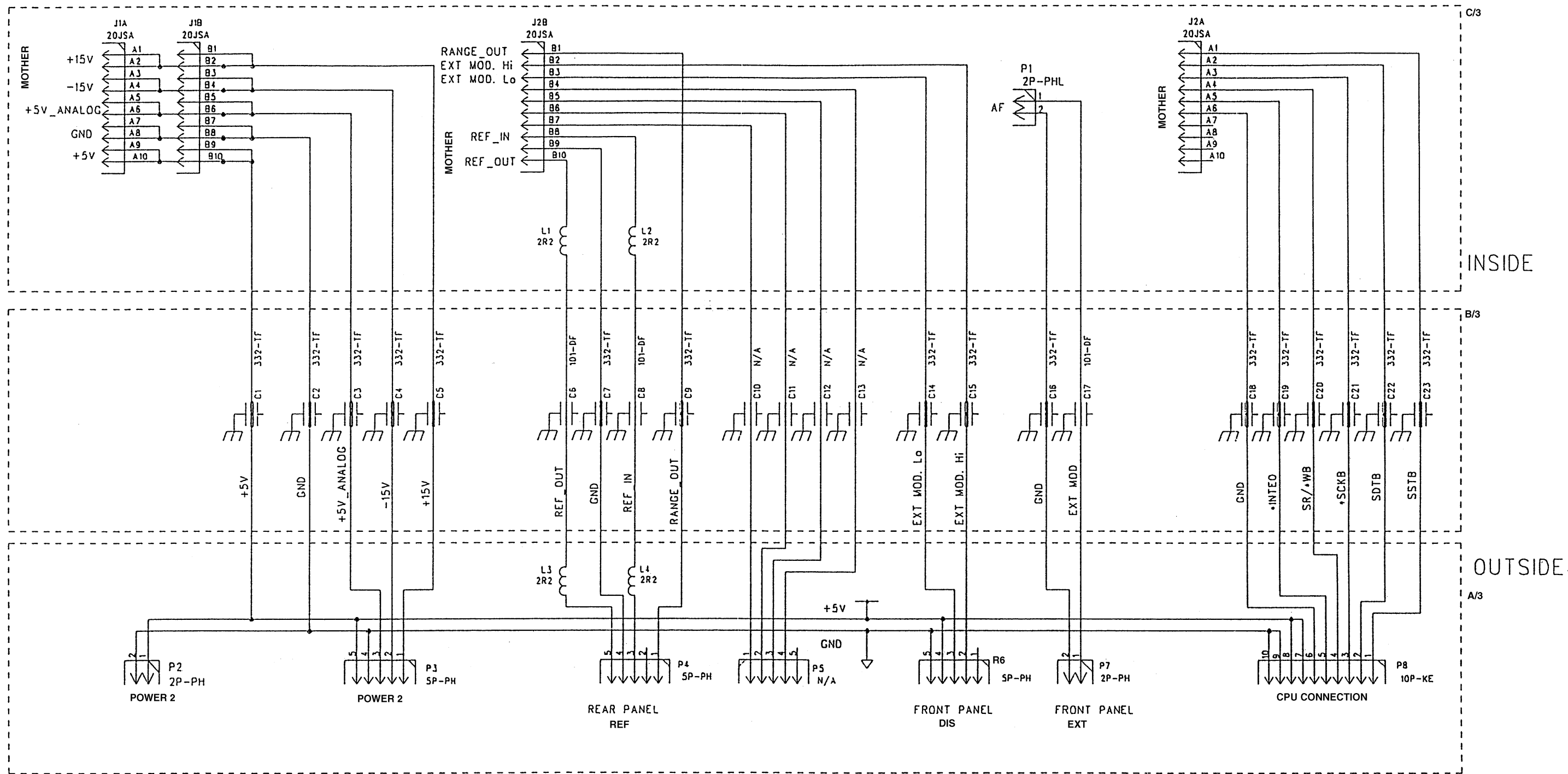


SG-7200/SG-7130

KENWOOD

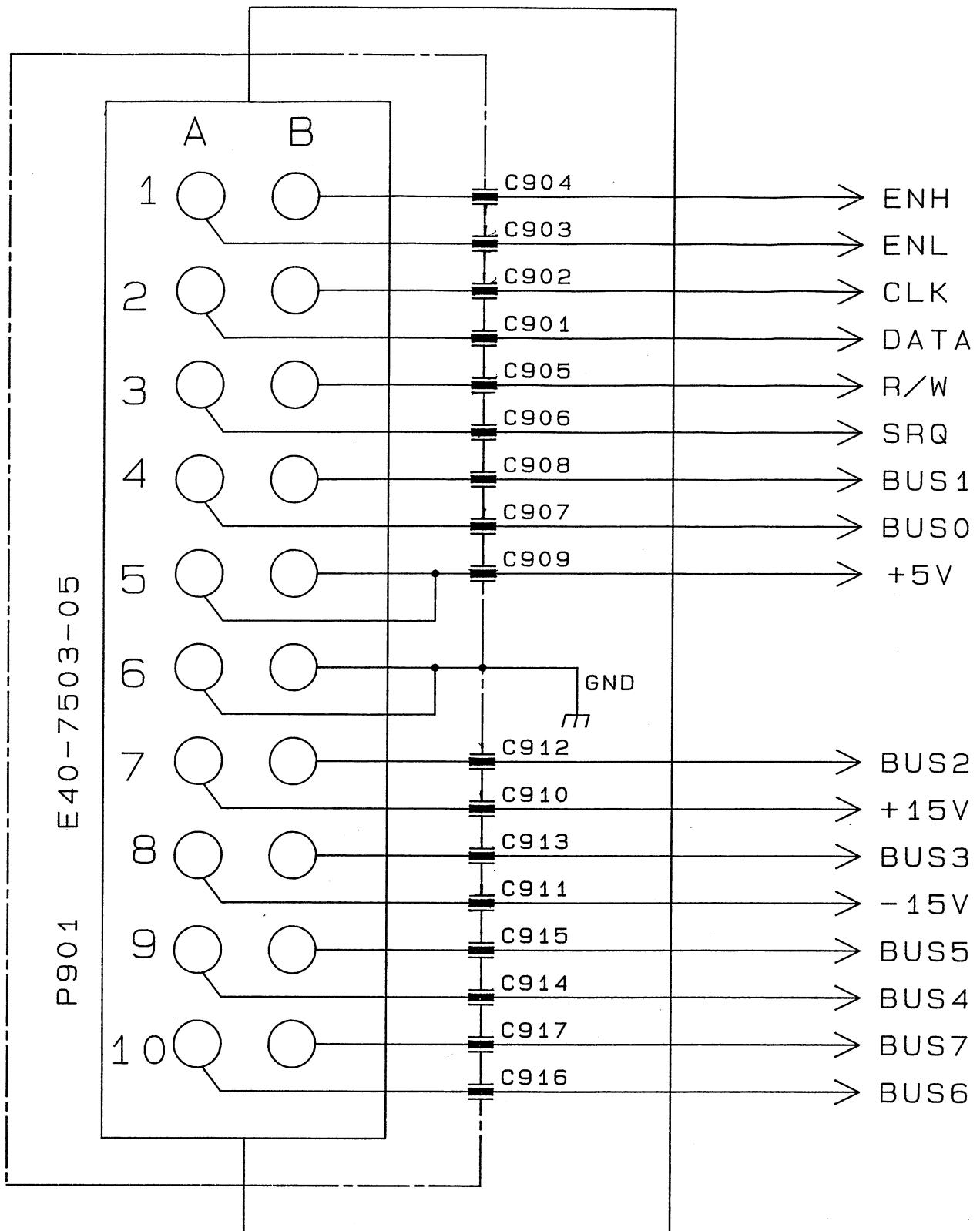
CONNECTION UNIT(X67-1280-00)

10 9 8 7 8
1 2 3 4 5



5 4 3 2 1

CONNECTION UNIT(X67-1360-00)



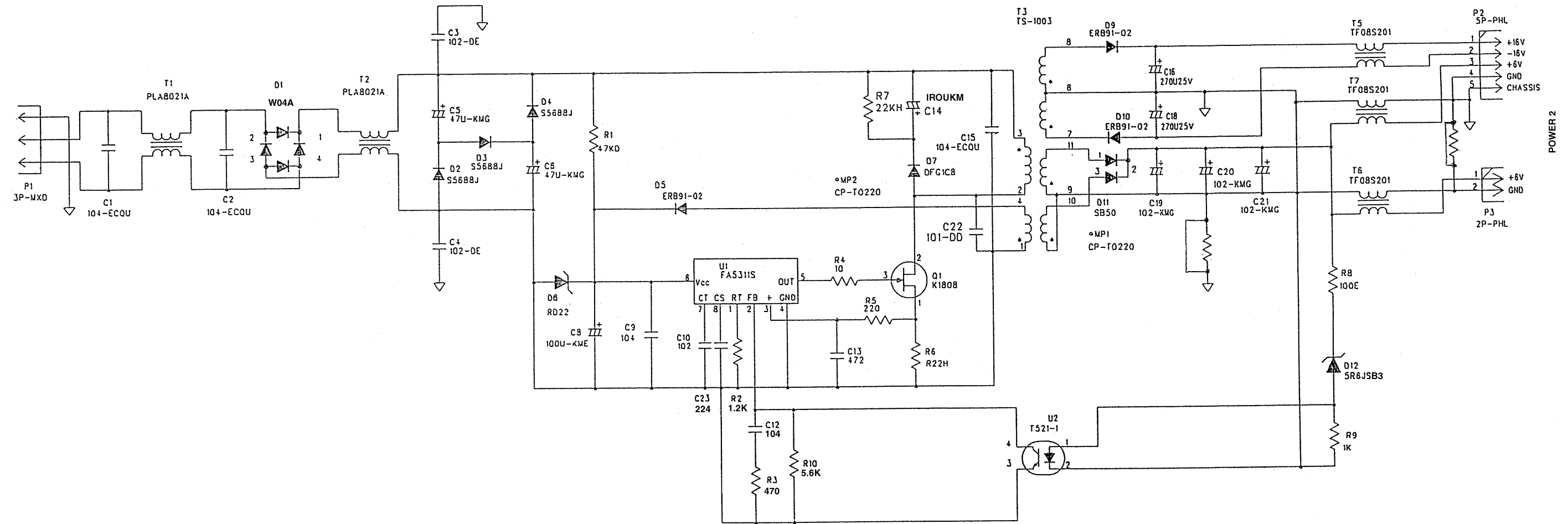
BRACKET

J29-0533-04

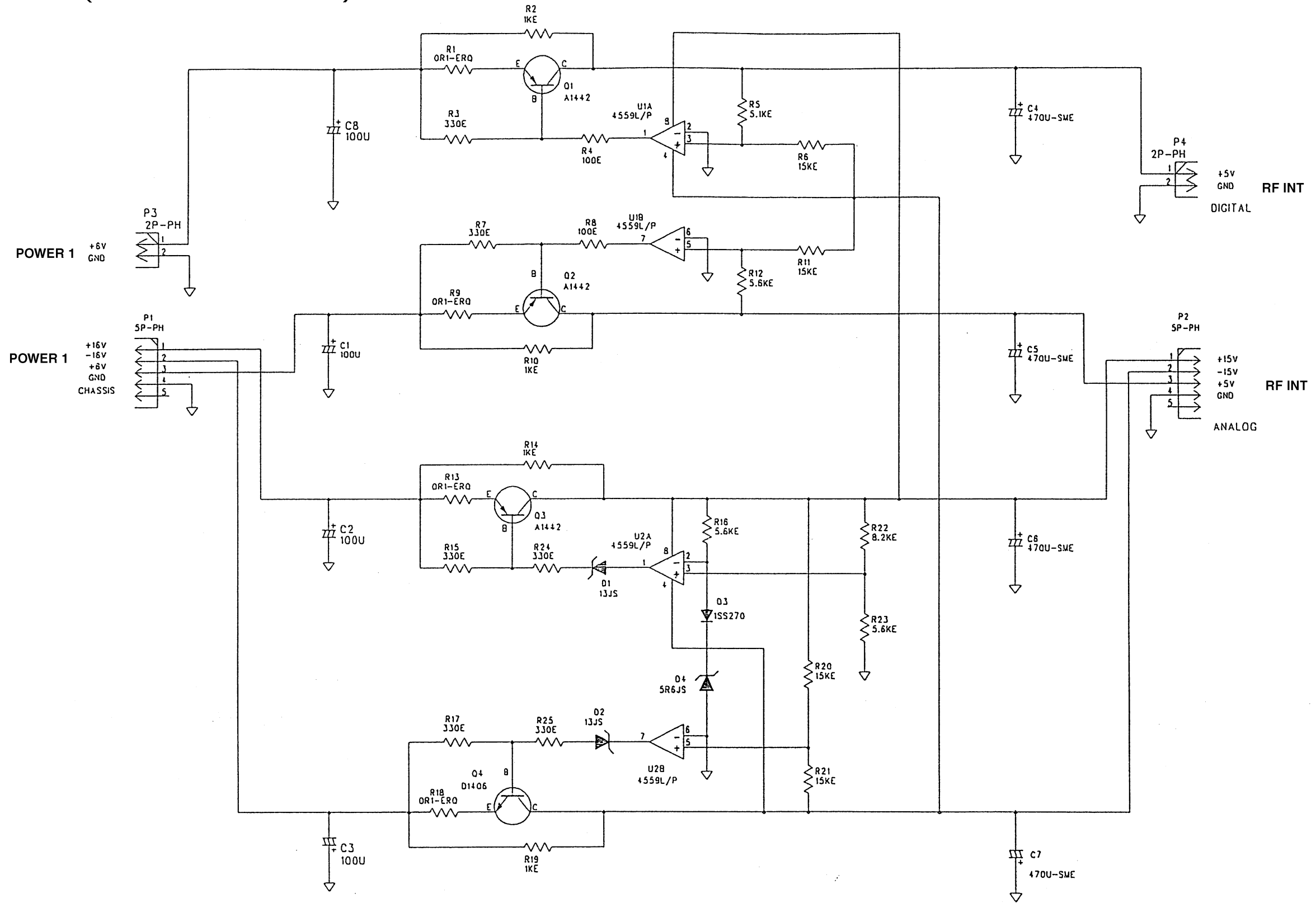
SG-7200/SG-7130

KENWOOD

POWER SUPPLY UNIT (X68-1780-00)



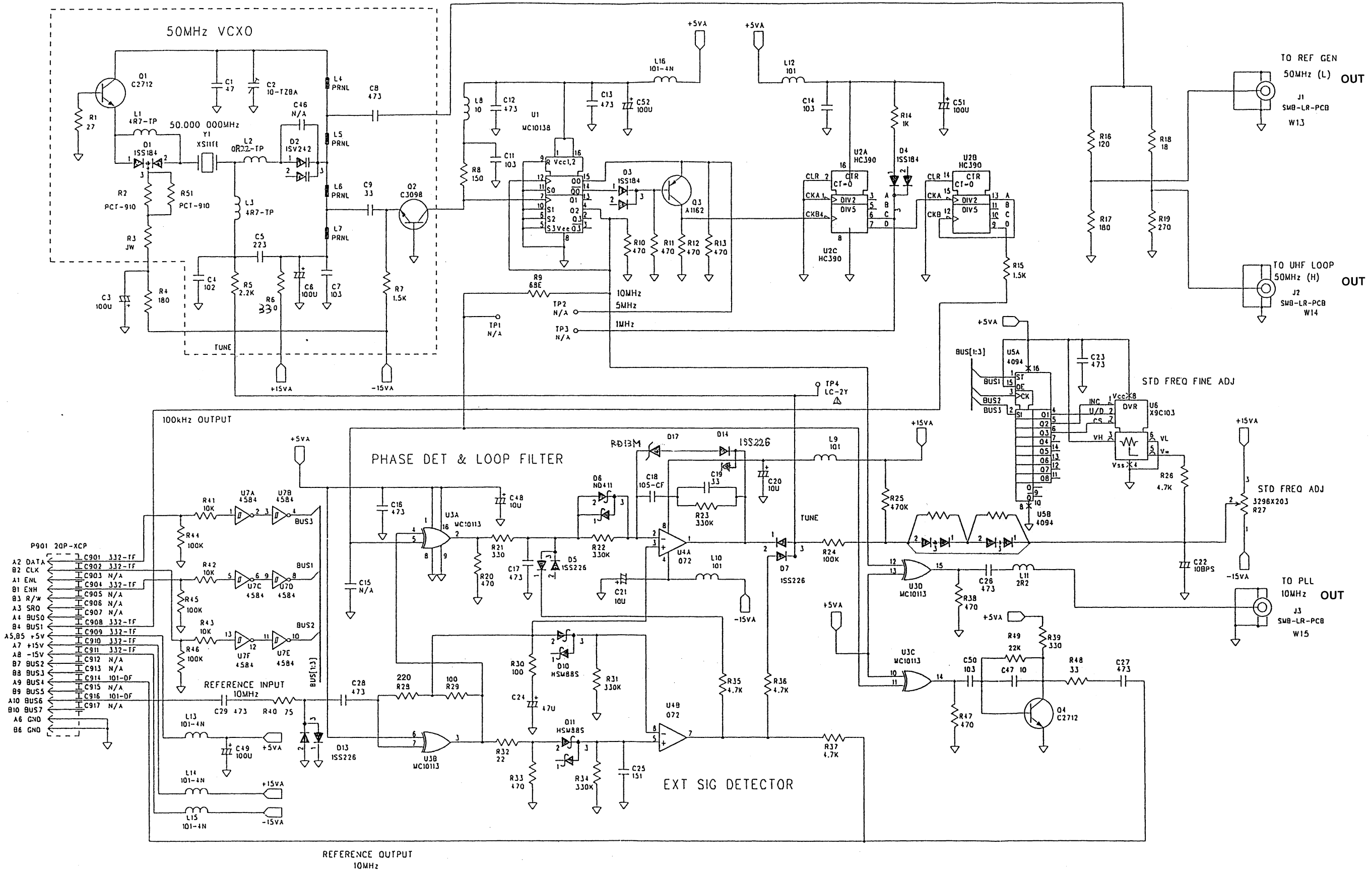
POWER SUPPLY UNIT (X68-1790-00)



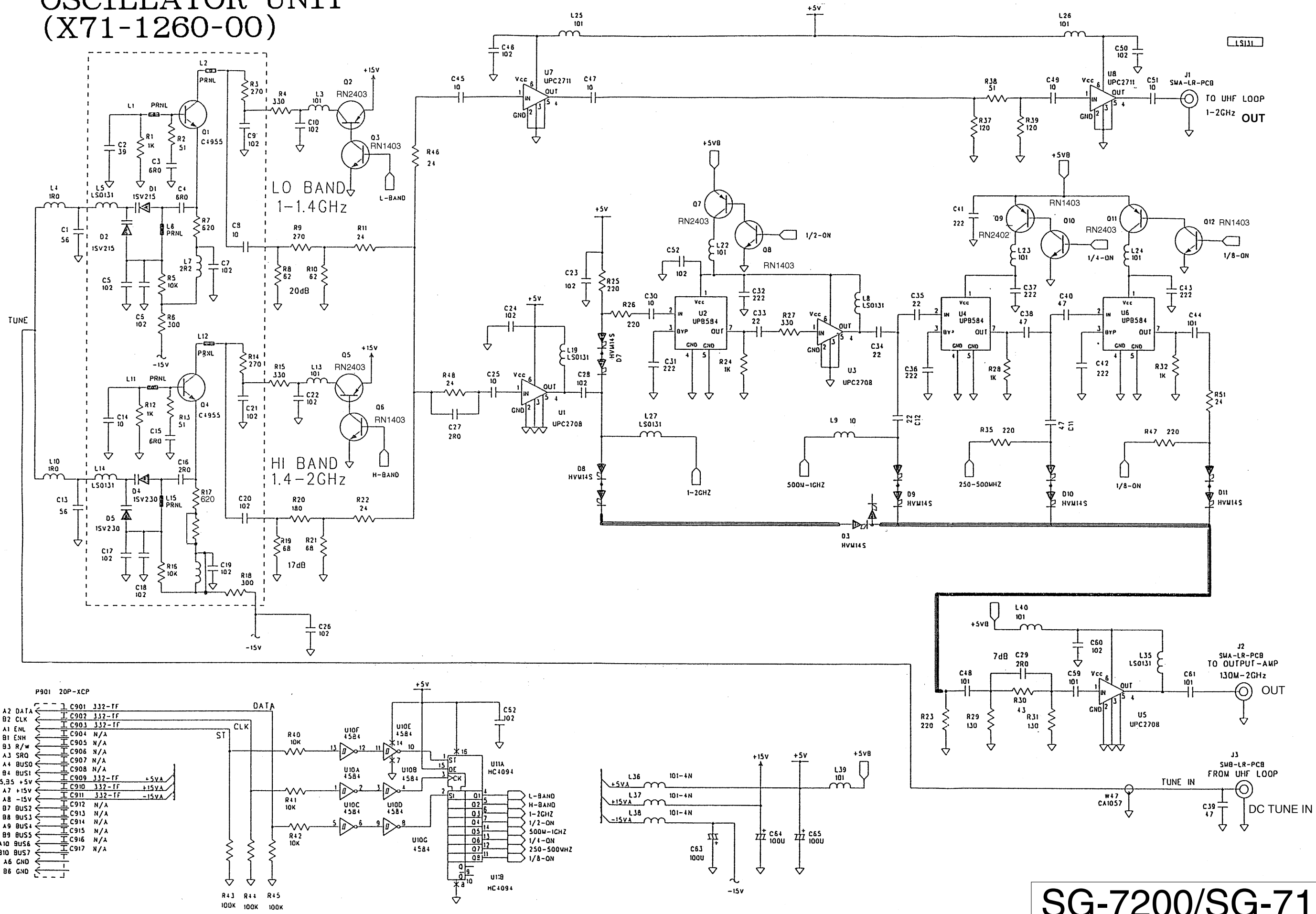
SG-7200/SG-7130

KENWOOD

GENERATOR UNIT(X71-1250-00)



OSCILLATOR UNIT (X71-1260-00)



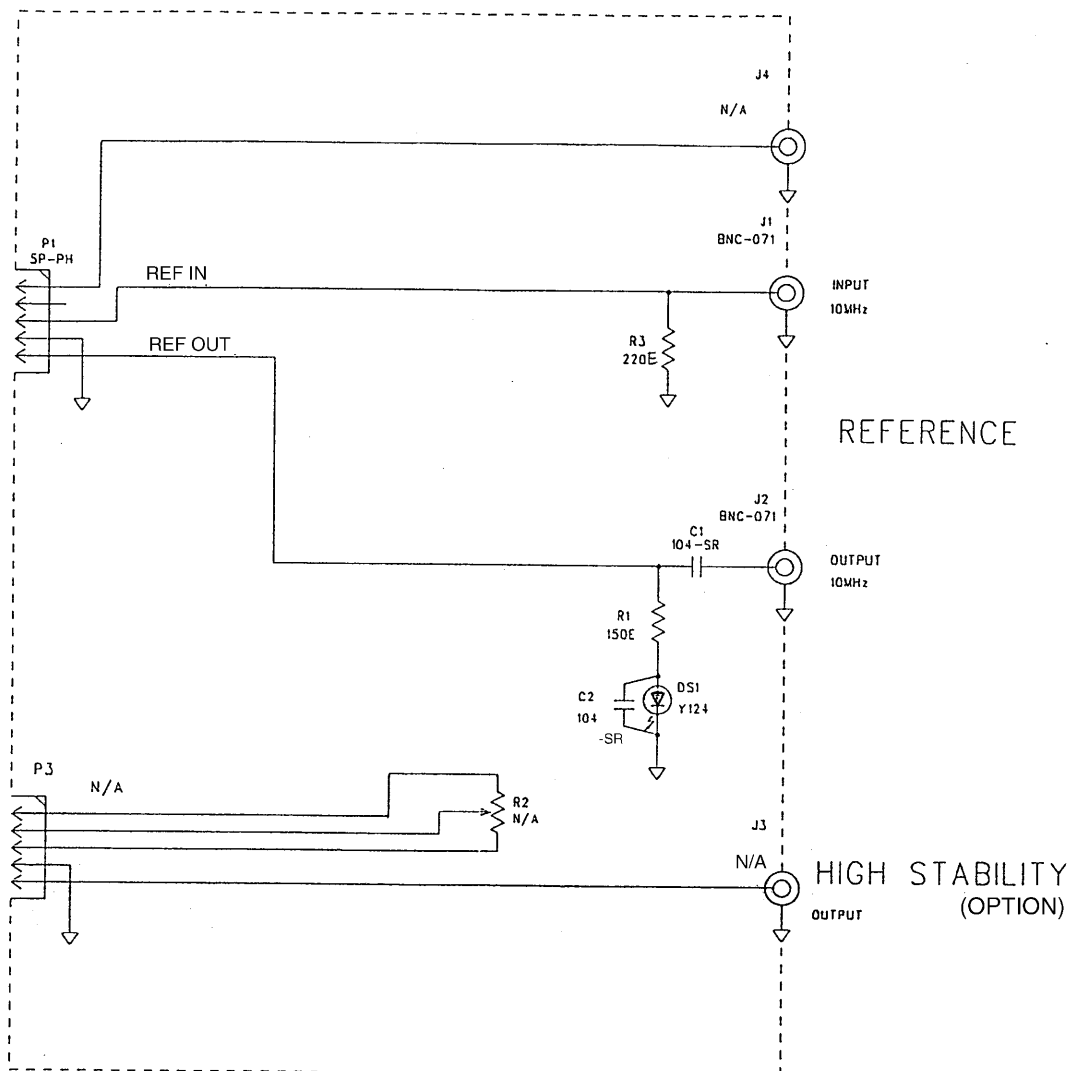
P901 20P-XCP

A2	DATA	C901	332-TF
B2	CLK	C902	332-TF
A1	ENL	C903	332-TF
B1	ENH	C904	N/A
B3	R/W	C905	N/A
A3	SRO	C906	N/A
A4	BUS0	C907	N/A
B4	BUS1	C908	N/A
A5, B5	+5V	C909	332-TF
A7	+15V	C910	332-TF
A8	-15V	C911	332-TF
B7	BUS2	C912	N/A
B8	BUS3	C913	N/A
A9	BUS4	C914	N/A
B9	BUS5	C915	N/A
A10	BUS6	C916	N/A
A6	GND	C917	N/A
B6	GND		

SG-7200/SG-7130
KENWOOD

OUTPUT UNIT (X72-1220-00)

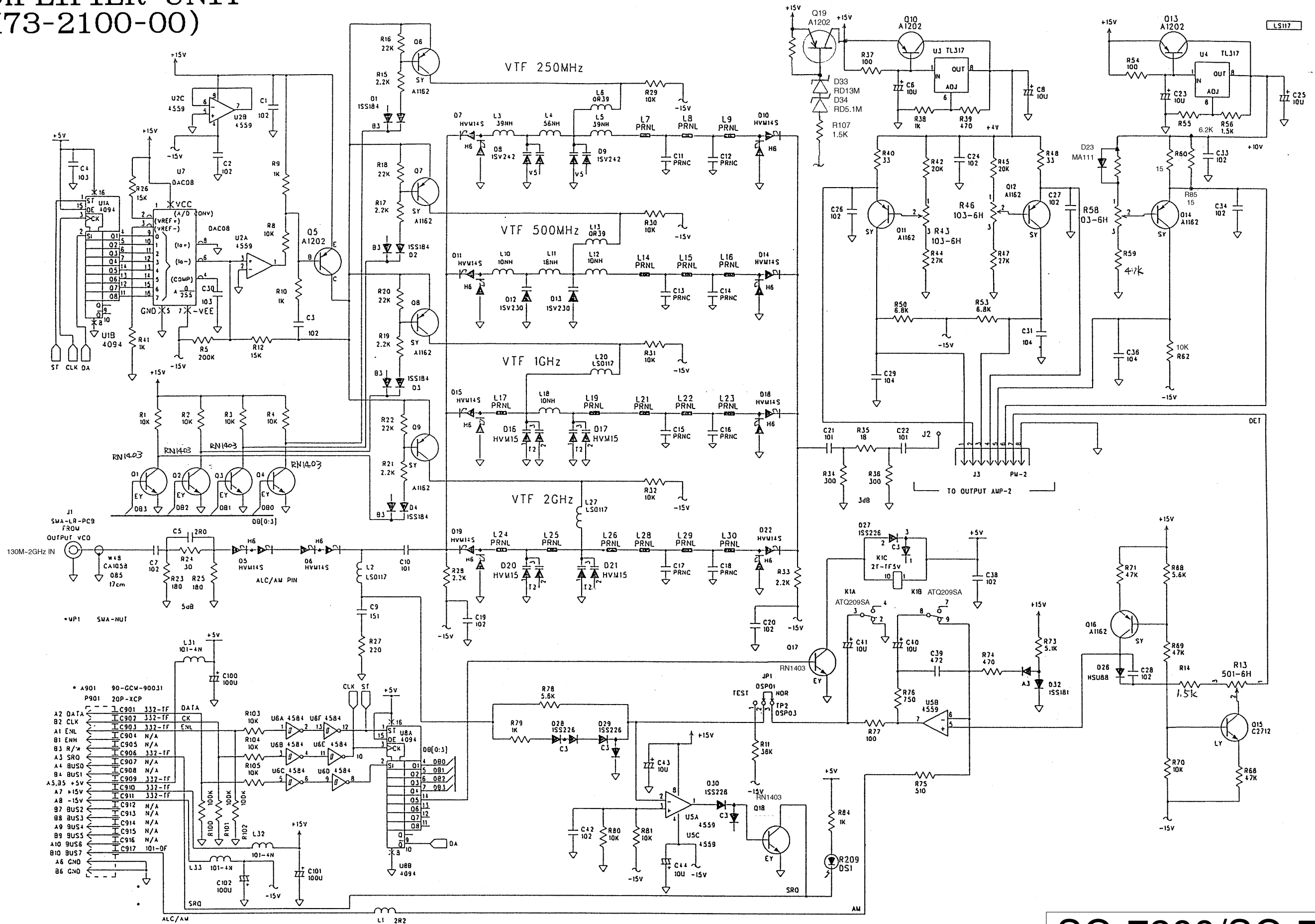
From RF INTCON



SG-7200/SG-7130

KENWOOD

AMPLIFIER UNIT (X73-2100-00)

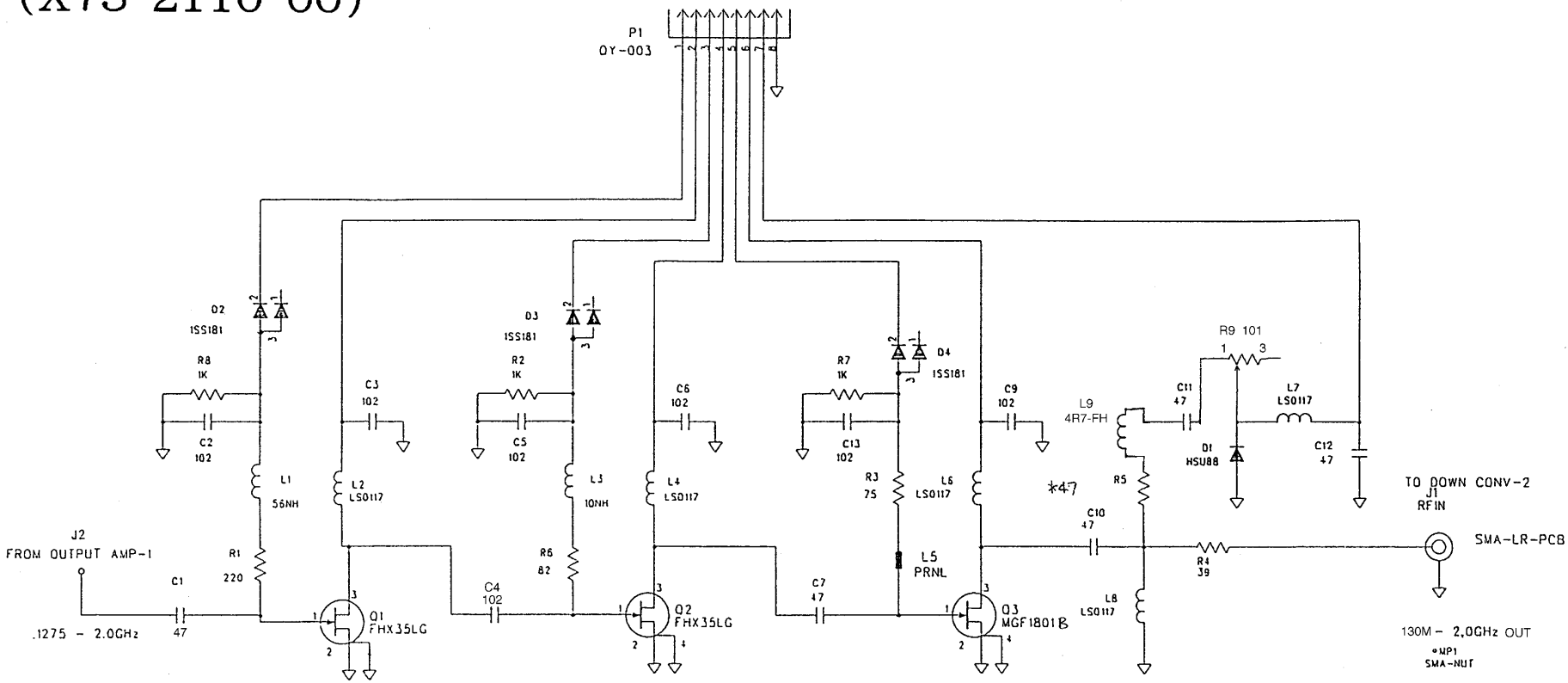


SG-7200/SG-7130

KENWOOD

AMPLIFIER UNIT (X73-2110-00)

FROM OUTPUT AMP-1



SG-7200/SG-7130

KENWOOD

7

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EU

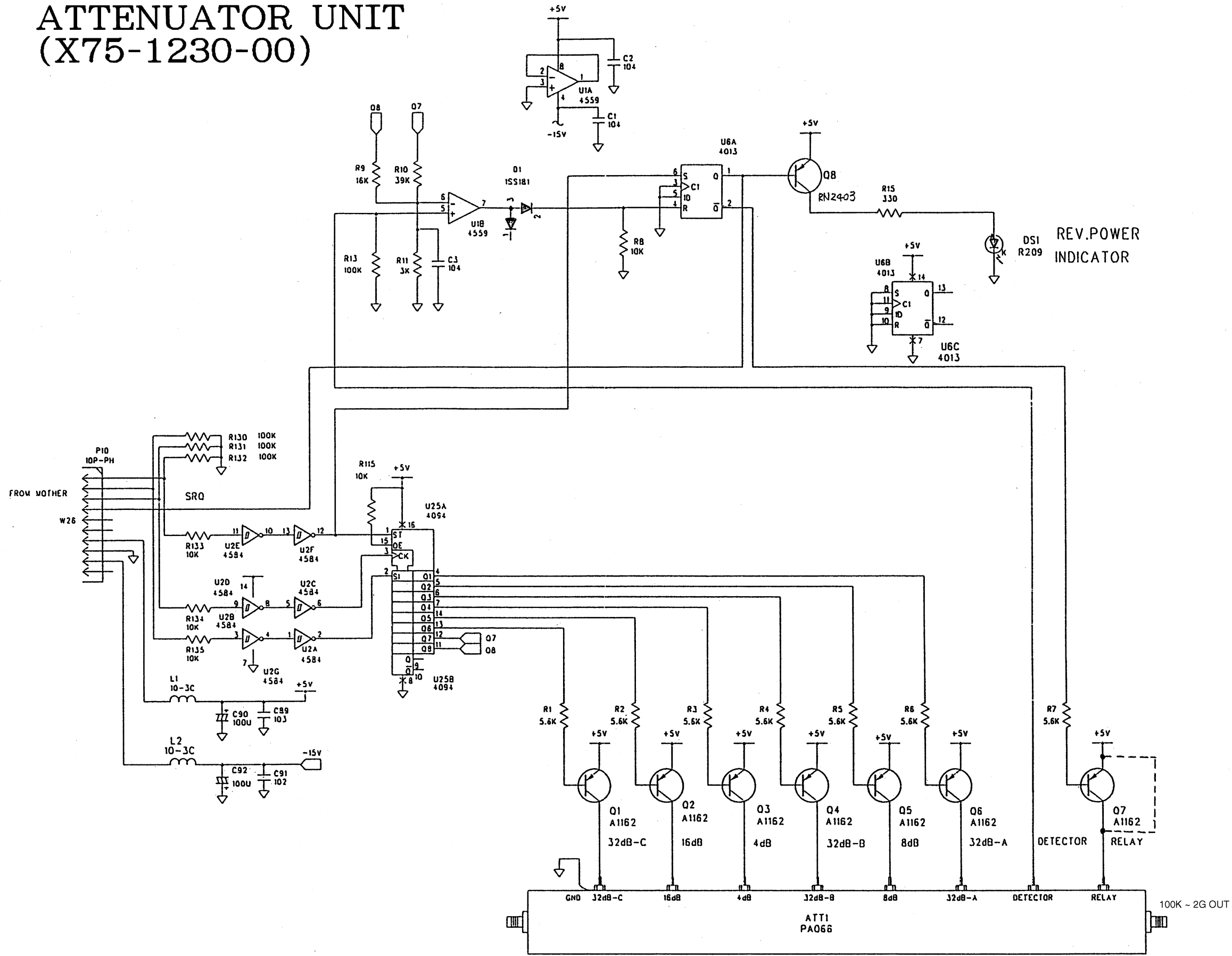
EV

EW

EX

EY

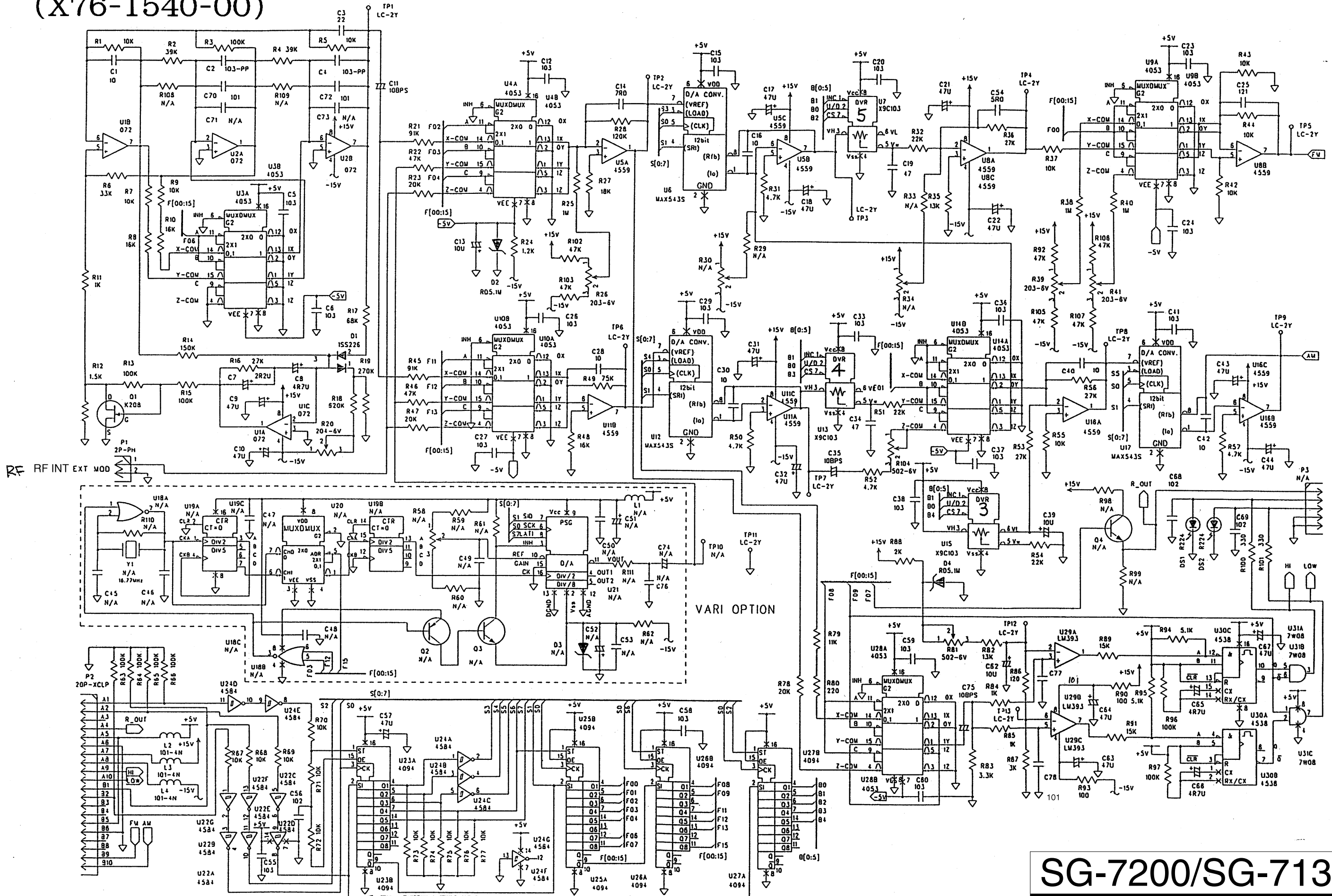
ATTENUATOR UNIT (X75-1230-00)



SG-7200/SG-7130

KENWOOD

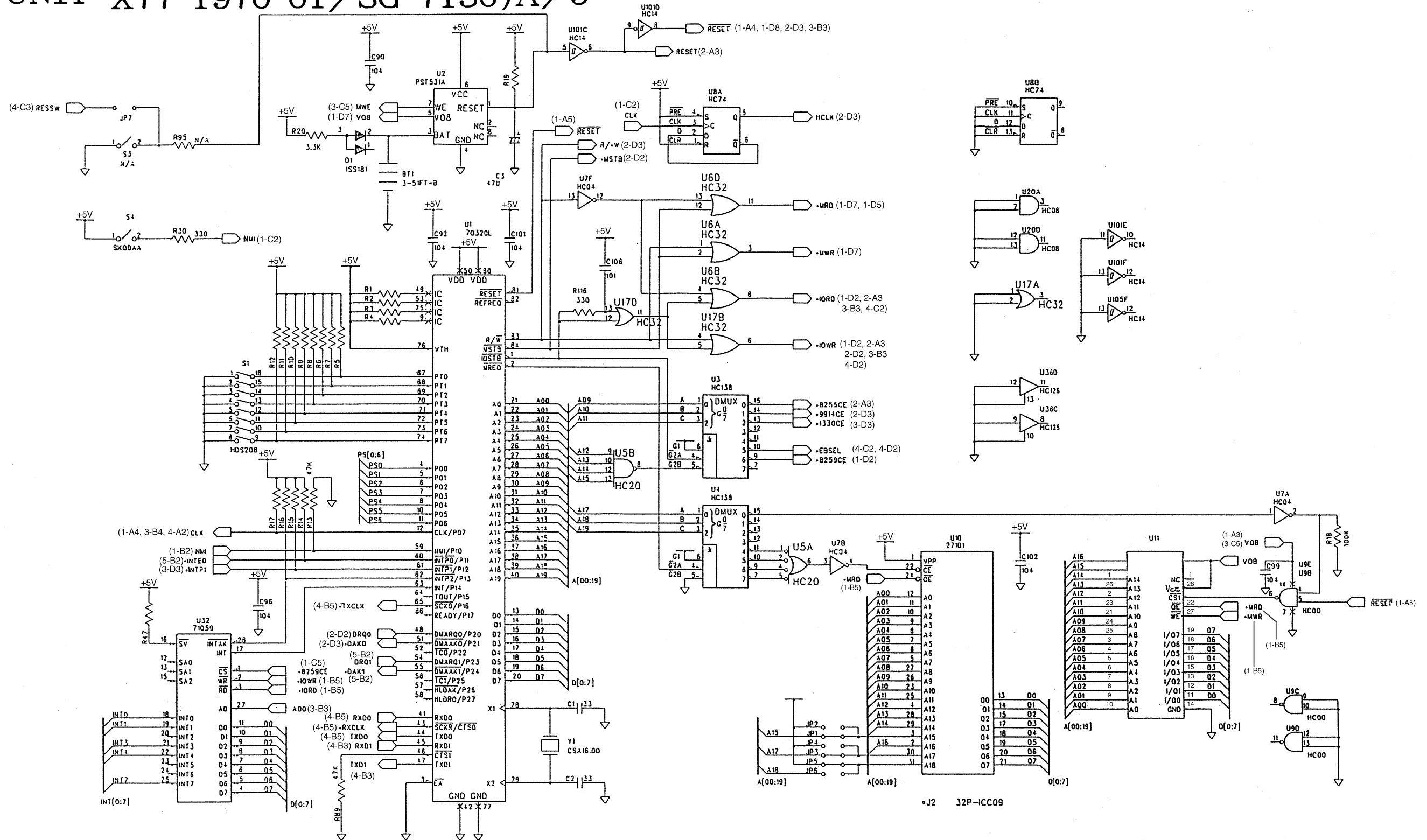
MODULATOR UNIT (X76-1540-00)



SG-7200/SG-7130
KENWOOD

FT FU FV FX FY FZ GA GB GC

CPU UNIT (X77-1970-00/SG-7200 X77-1970-01/SG-7130)A/5

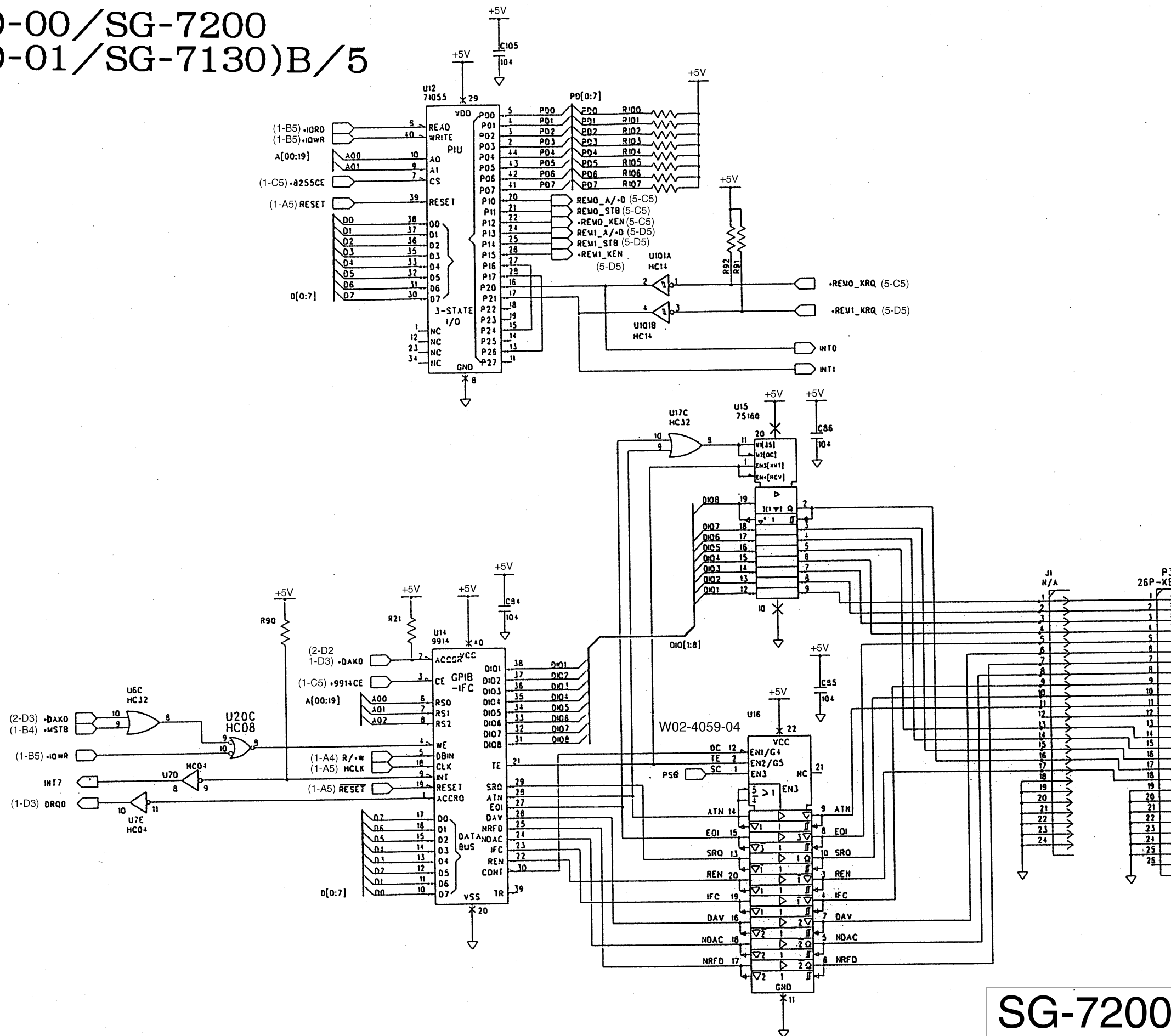


SG-7200/SG-7130

KENWOOD

CPU UNIT

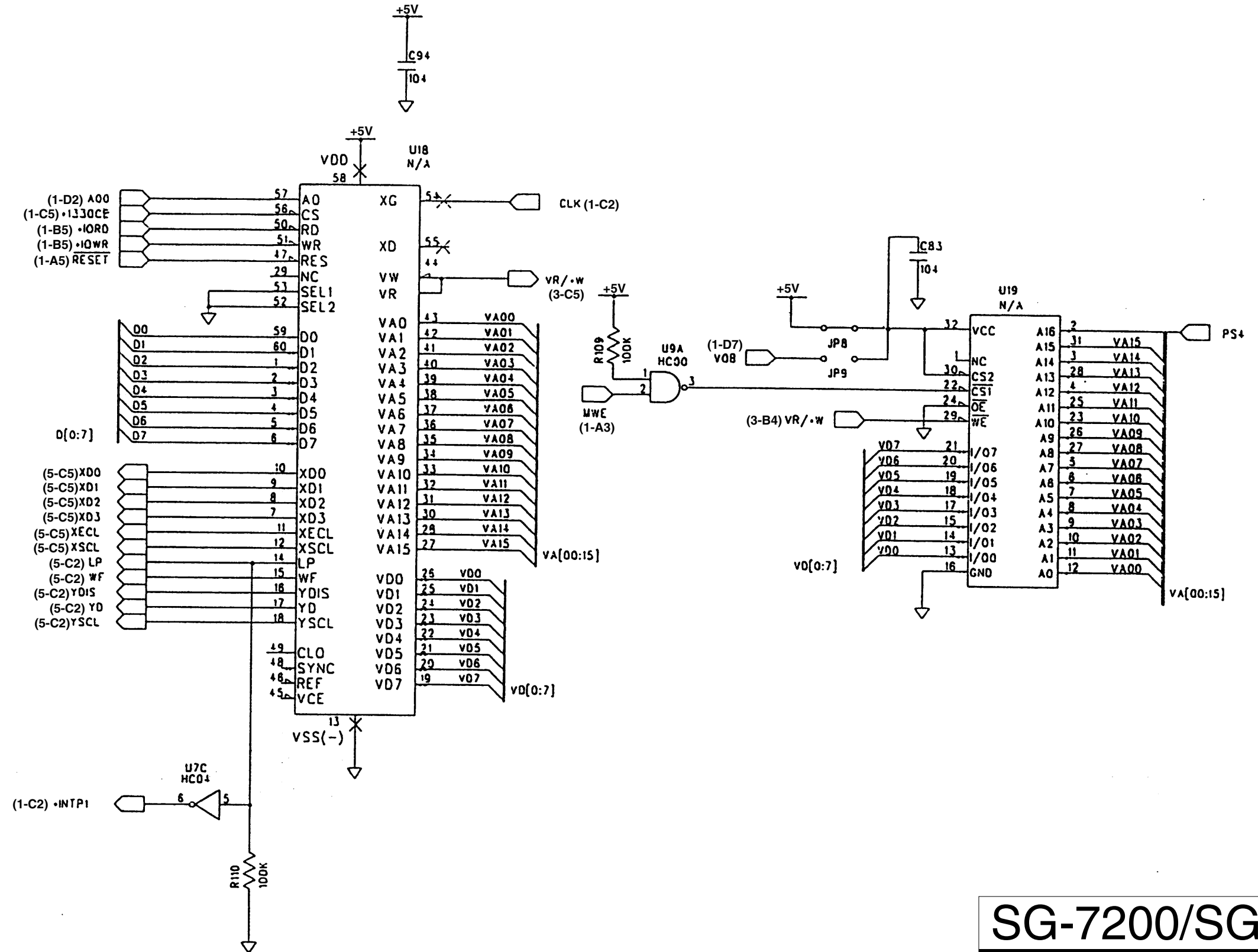
(X77-1970-00/SG-7200
X77-1970-01/SG-7130)B/5



SG-7200/SG-7130
KENWOOD

CPU UNIT

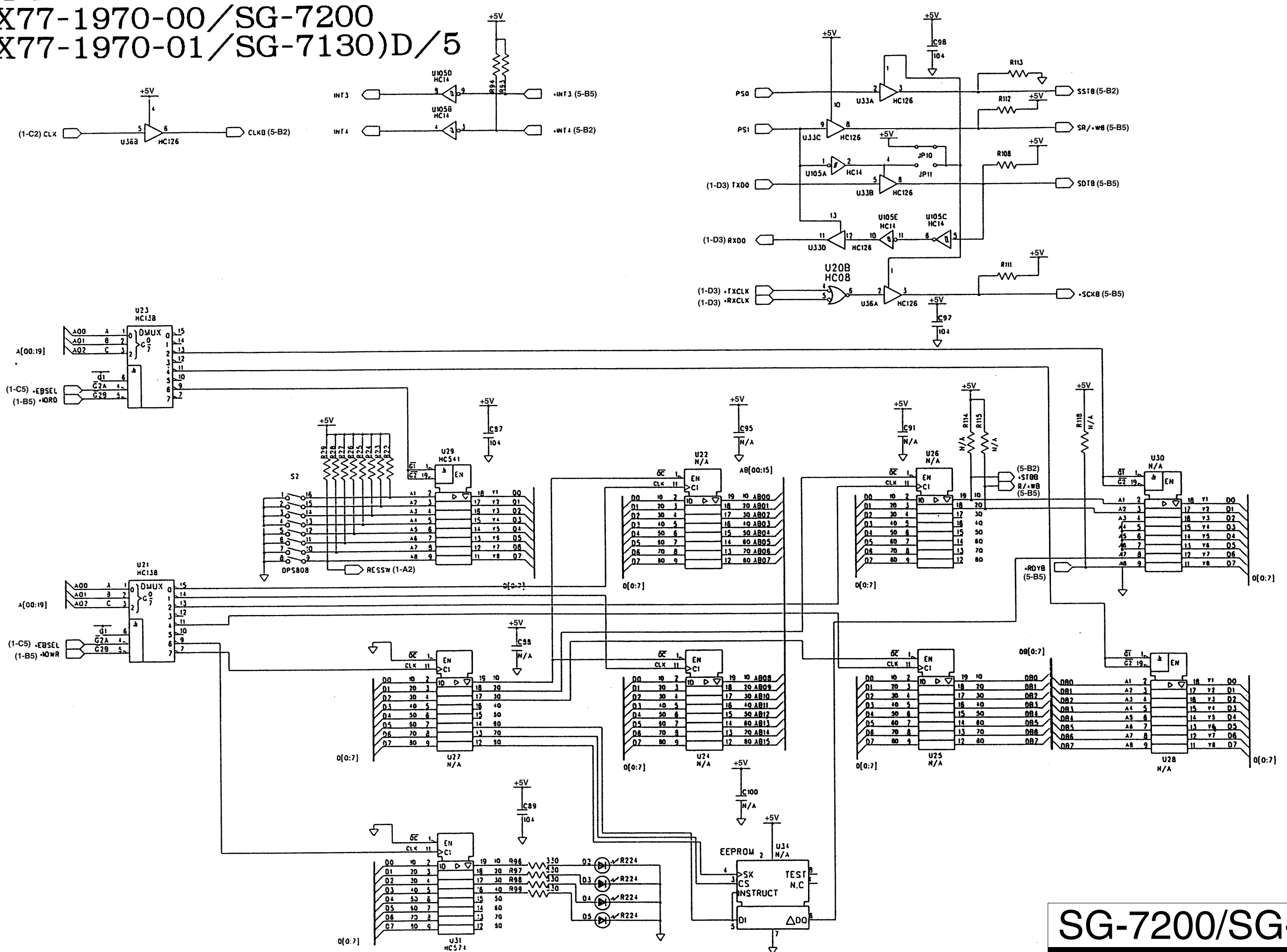
(X77-1970-00/SG-7200
X77-1970-01/SG-7130)C/5



SG-7200/SG-7130

KENWOOD

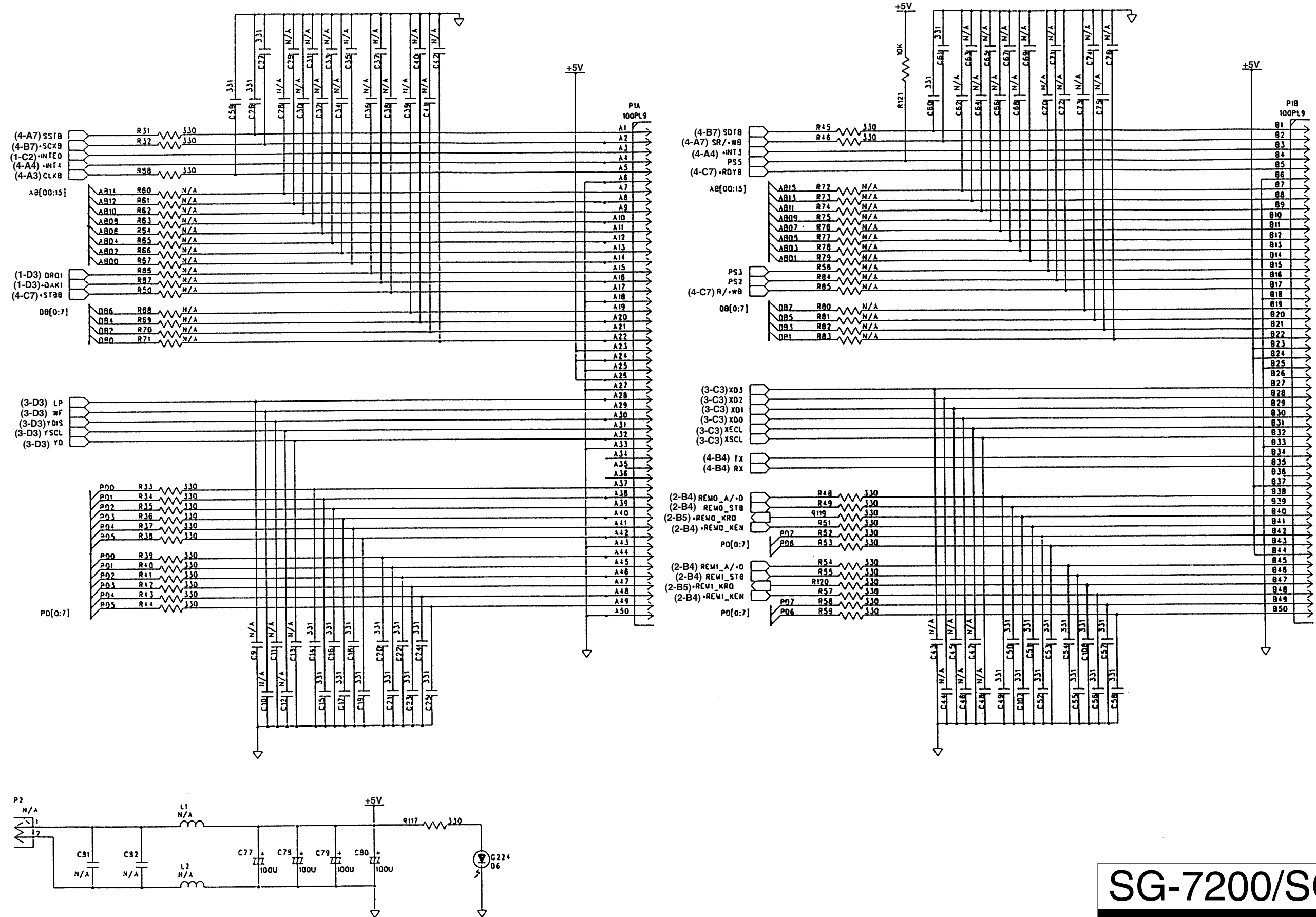
CPU UNIT (X77-1970-00/SG-7200 X77-1970-01/SG-7130)D/5



SG-7200/SG-7130
KENWOOD

CPU UNIT

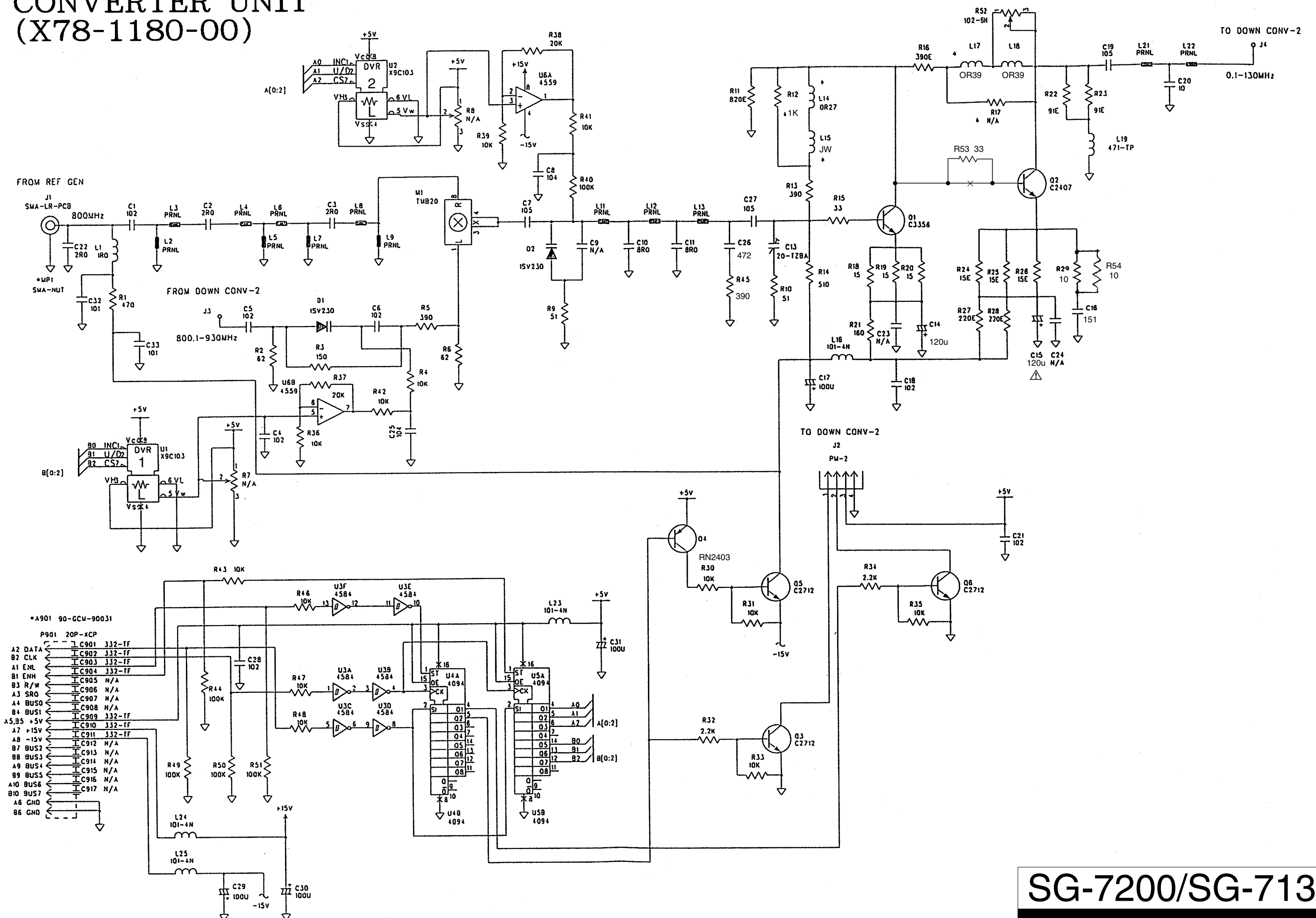
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X77-1970-01/SG-7130)E/5



SG-7200/SG-7130

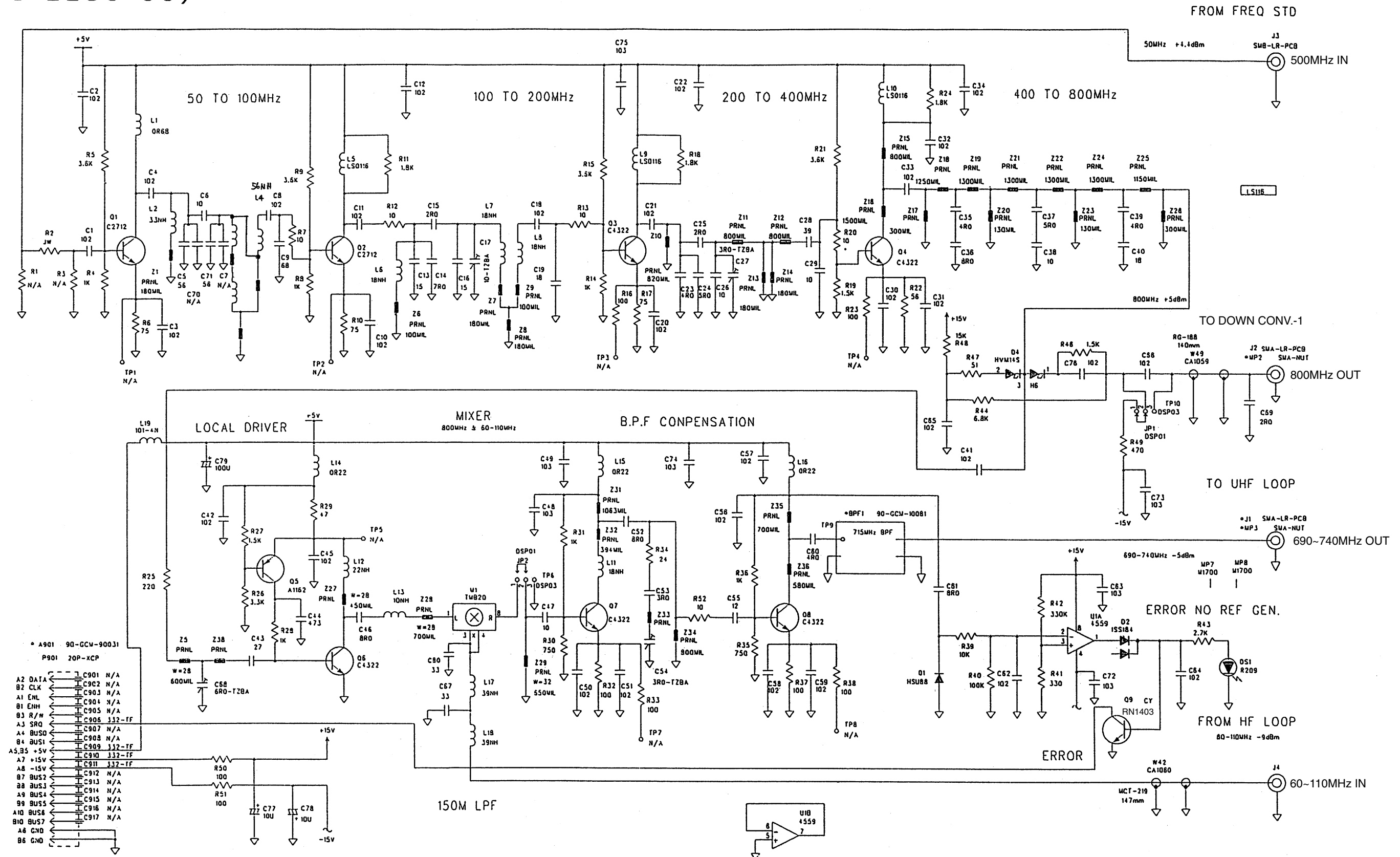
KENWOOD

CONVERTER UNIT (X78-1180-00)



SG-7200/SG-7130
KENWOOD

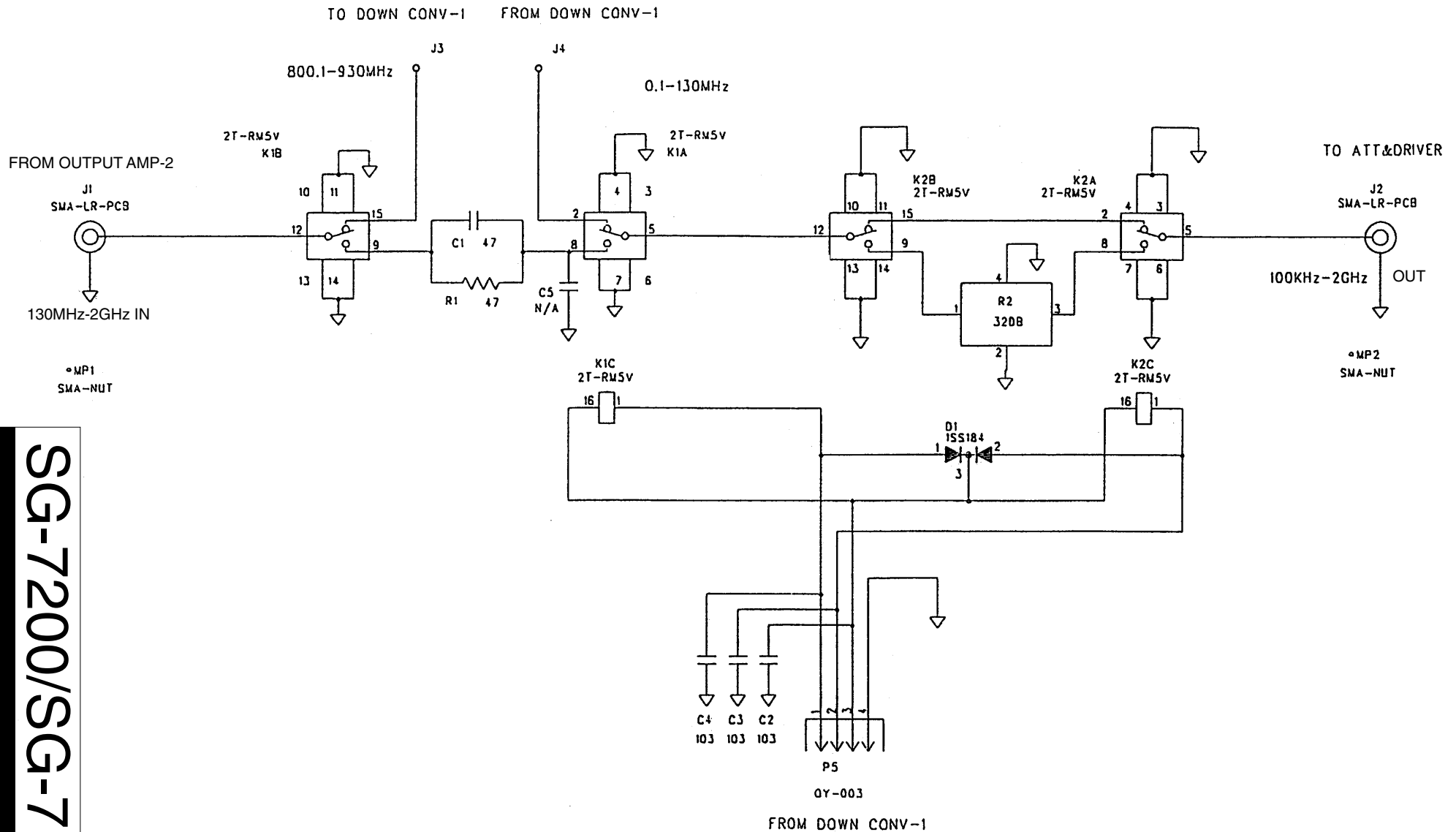
CONVERTER UNIT (X78-1190-00)



SG-7200/SG-7130

KENWOOD

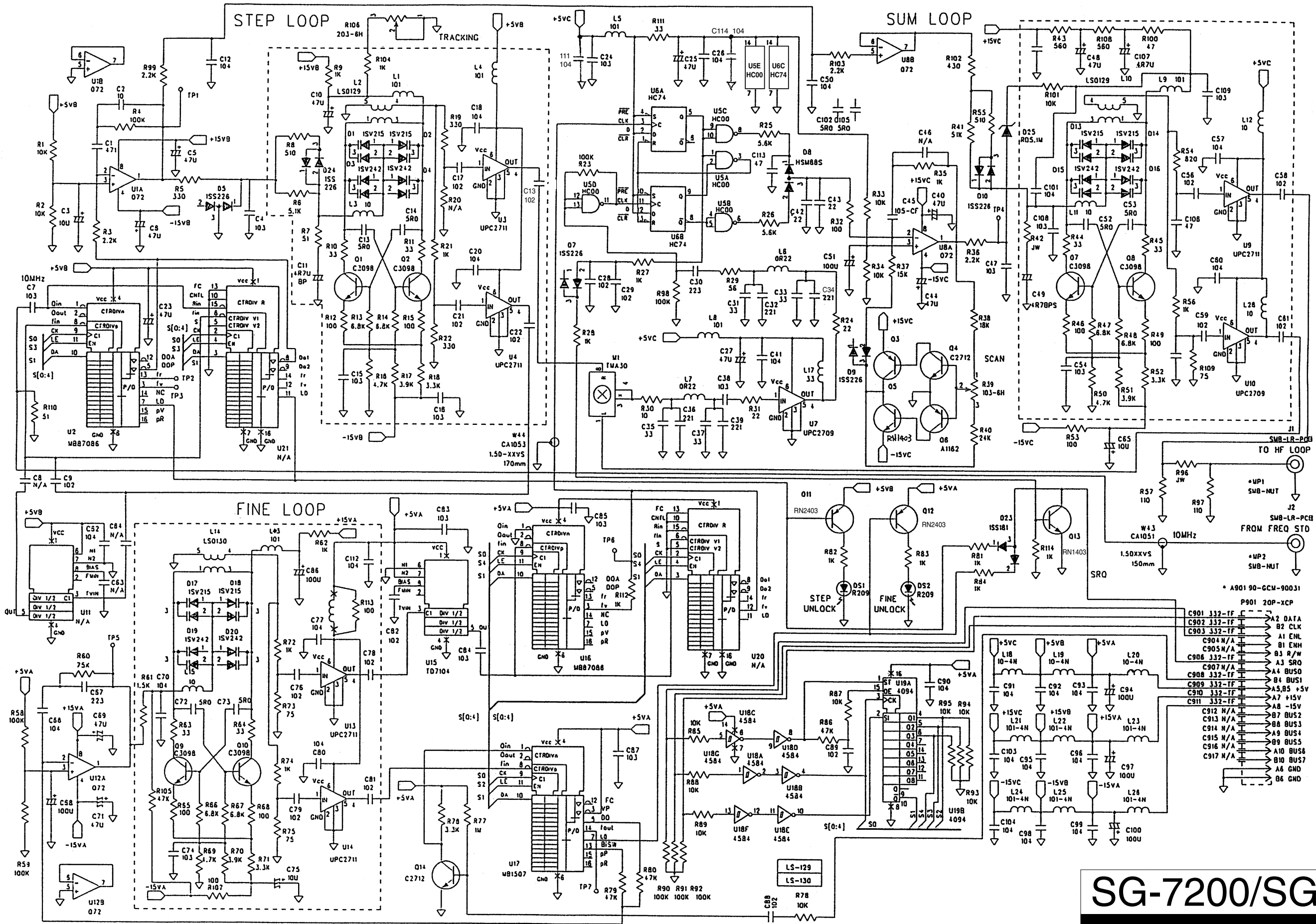
CONVERTER UNIT (X78-1200-00)



SG-7200/SG-7130

KENWOOD

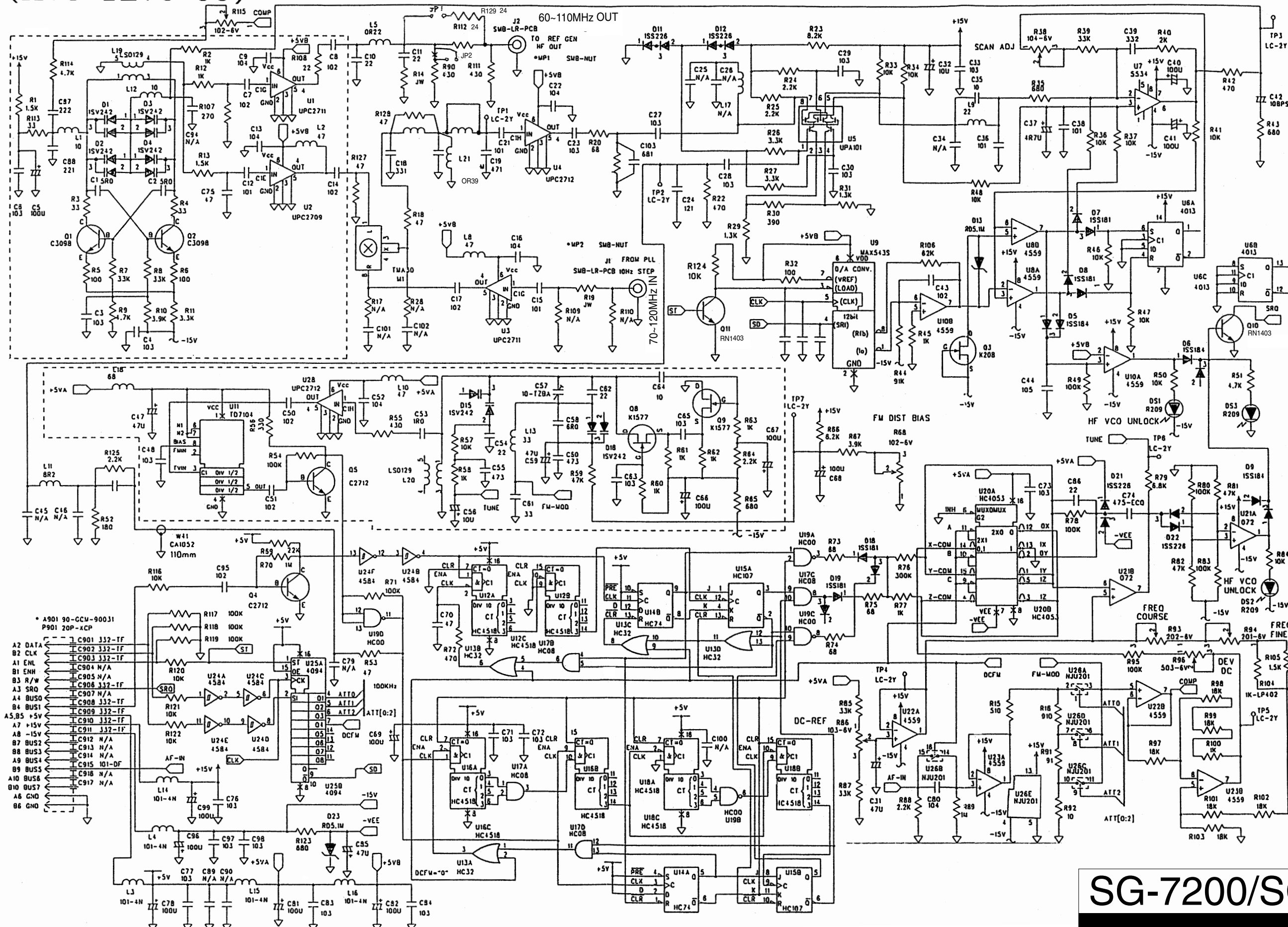
SIGNAL PROCESSOR UNIT (X79-1260-00)



SG-7200/SG-7130

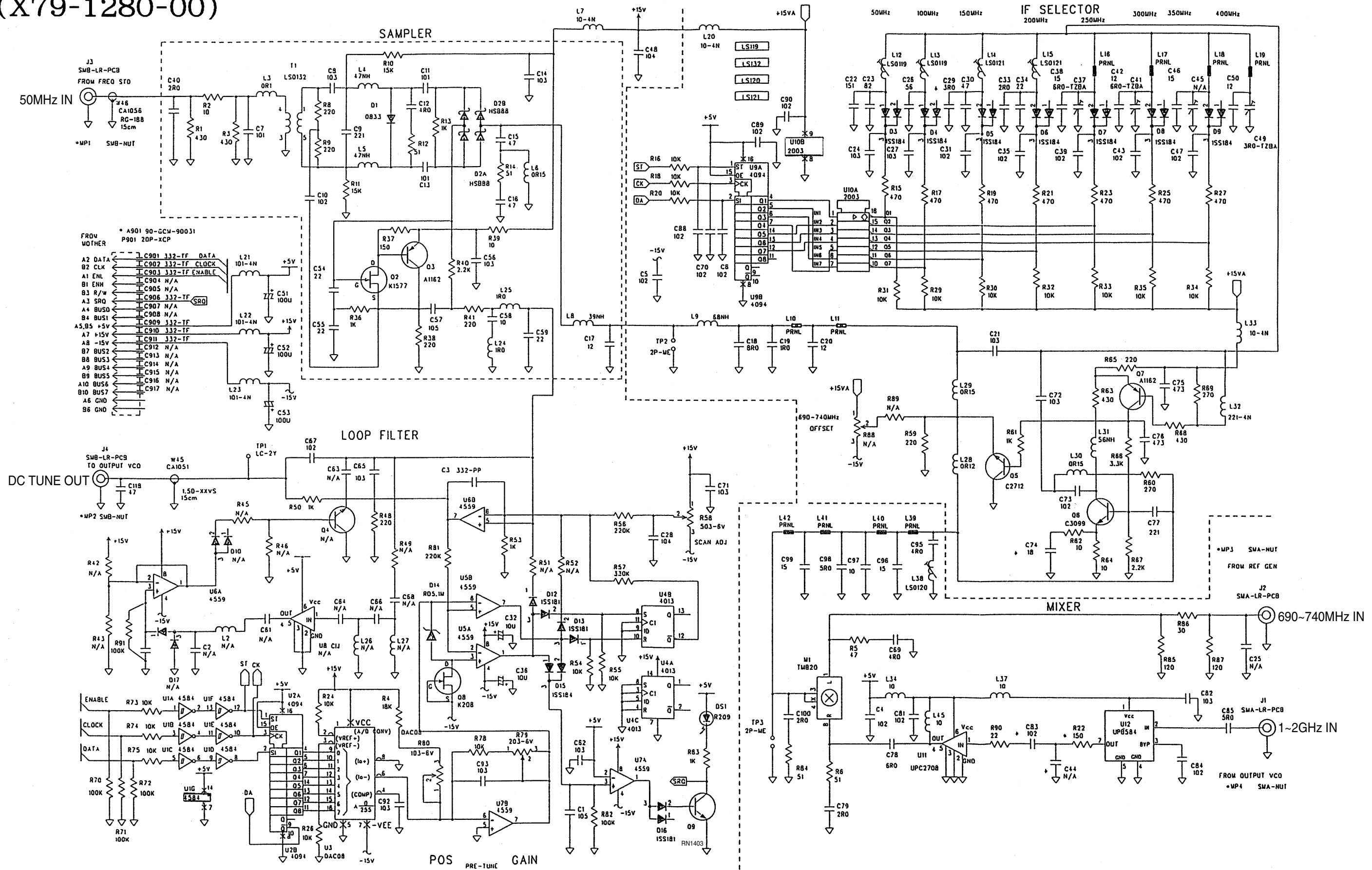
KENWOOD

SIGNAL PROCESSOR UNIT (X79-1270-00)



SG-7200/SG-7130
KENWOOD

SIGNAL PROCESSOR UNIT (X79-1280-00)



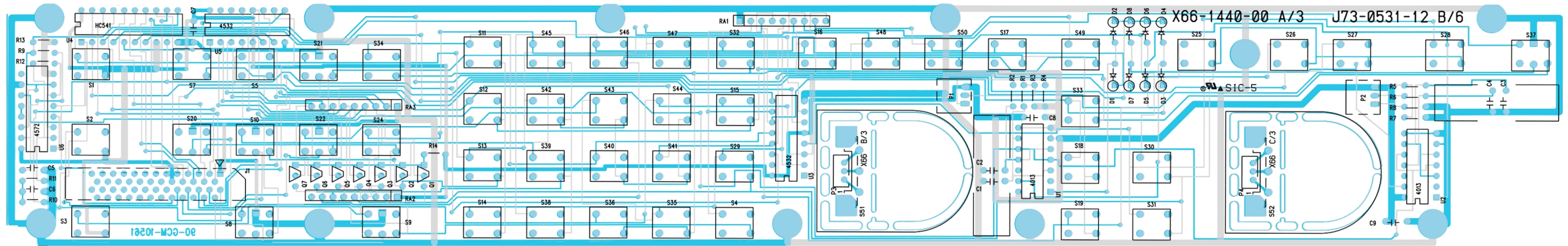
SG-7200/SG-7130

KENWOOD

PC BOARD(Component side view)

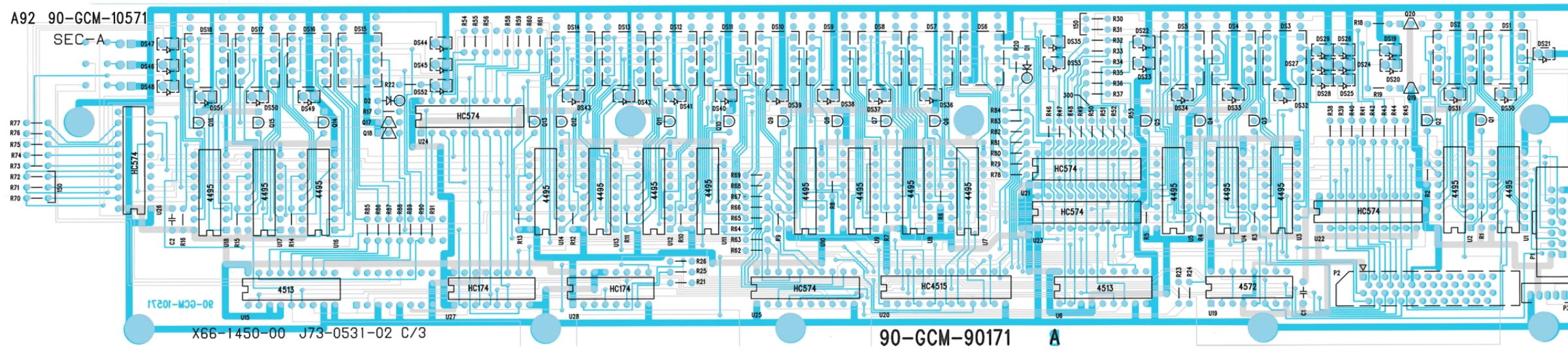
PANEL UNIT(X66-1440-00)

Parts side view



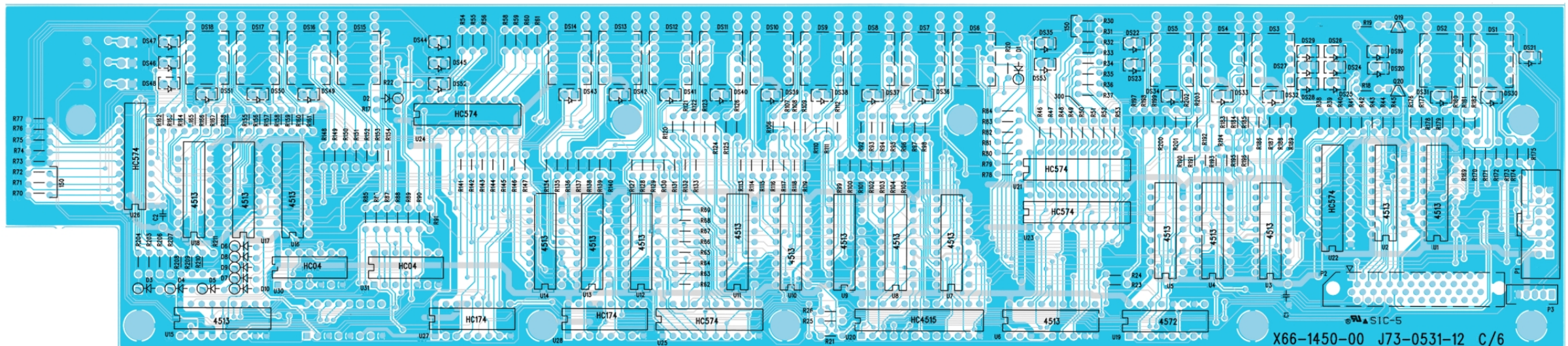
DISPLAY UNIT(X66-1450-00)

Parts side view



DISPLAY UNIT(X66-1450-00 S/No.7050001~)

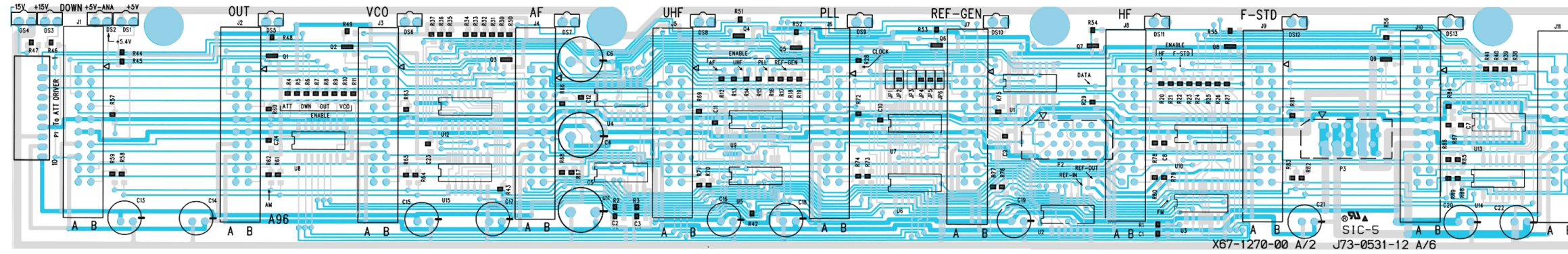
Parts side view



PC BOARD(Component side view)

MOTHER BOARD UNIT (X67-1270-00) A/2

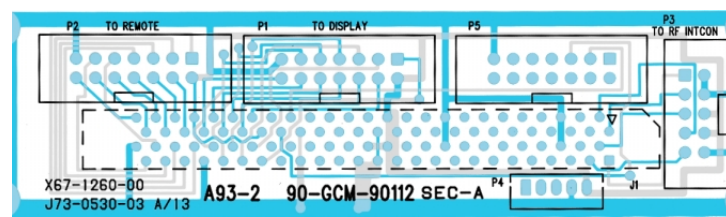
Parts side view



B/2

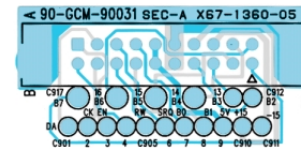
CONNECTION UNIT (X67-1260-00)

Parts side view



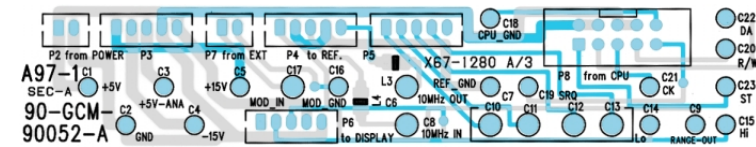
CONNECTION UNIT (X67-1360-0X)

Parts side view

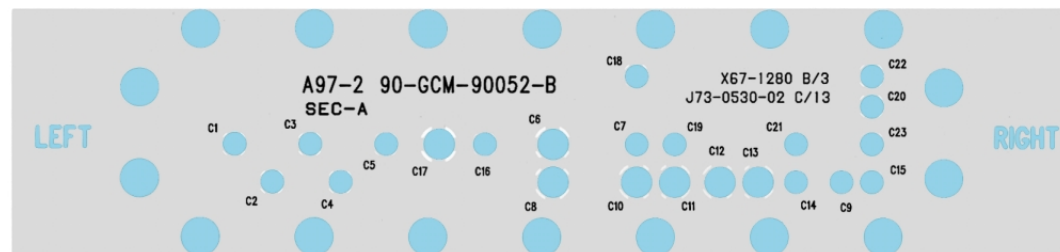


CONNECTION UNIT (X67-1280-00) A/3

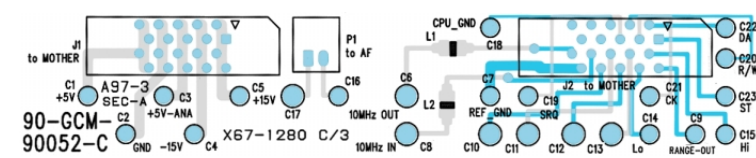
Parts side view



Pattern side view B/3

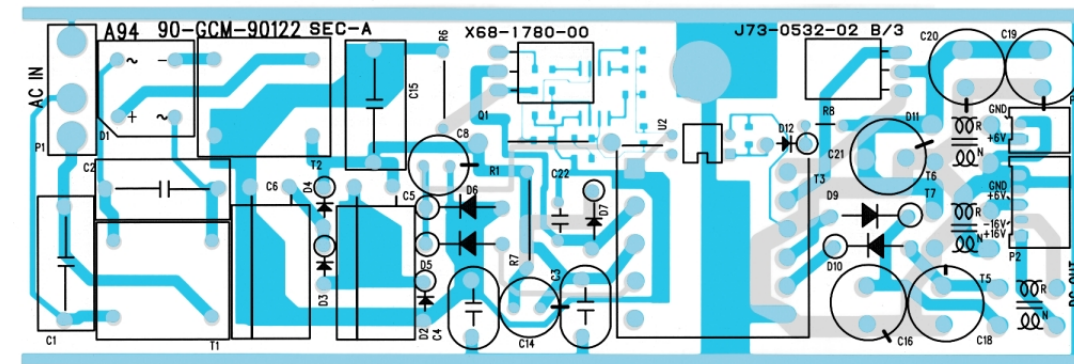


Pattern side view C/3



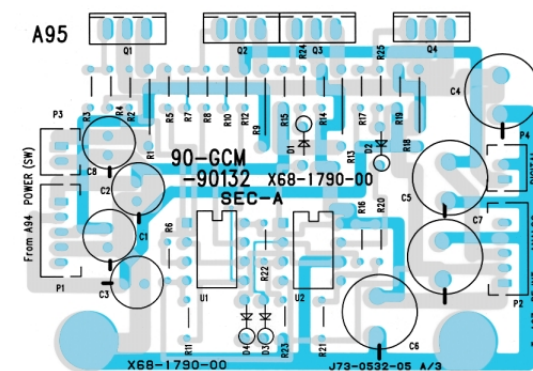
POWER SUPPLY UNIT (X68-1780-00)

Parts side view



POWER SUPPLY UNIT (X68-1790-00)

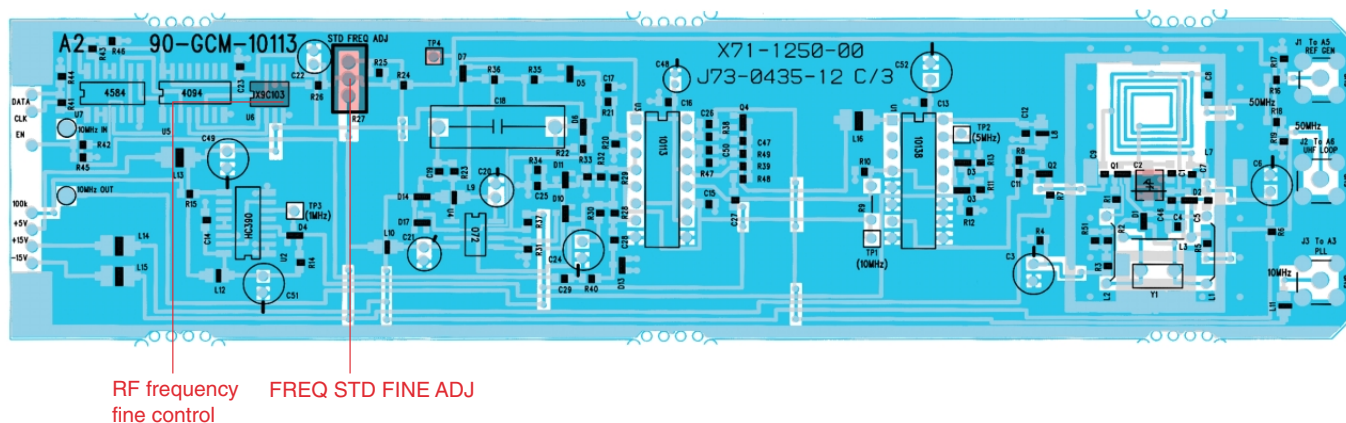
Parts side view



PC BOARD (Component side view)

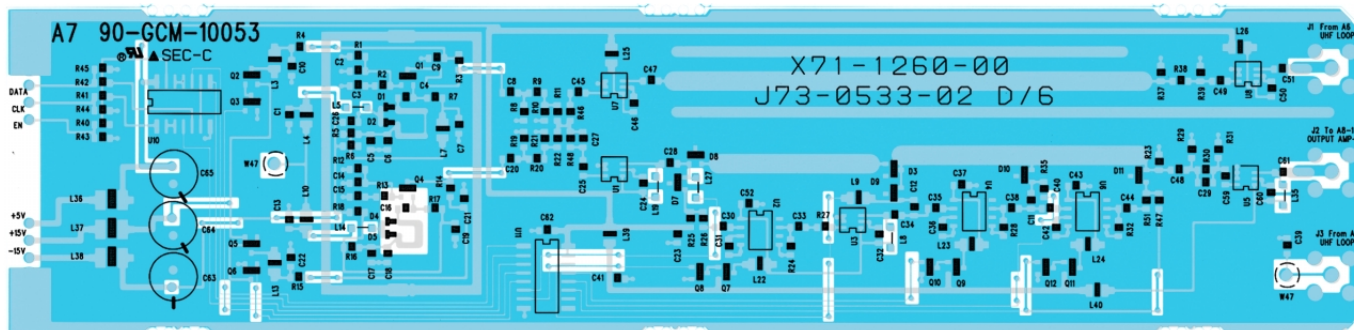
GENERATOR UNIT (X71-1250-00)

Parts side view



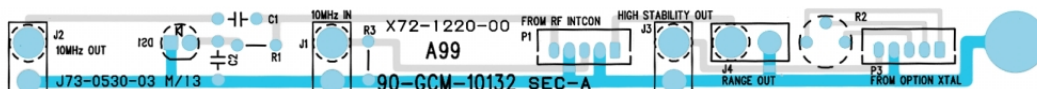
OSCILLATOR UNIT (X71-1260-00)

Parts side view



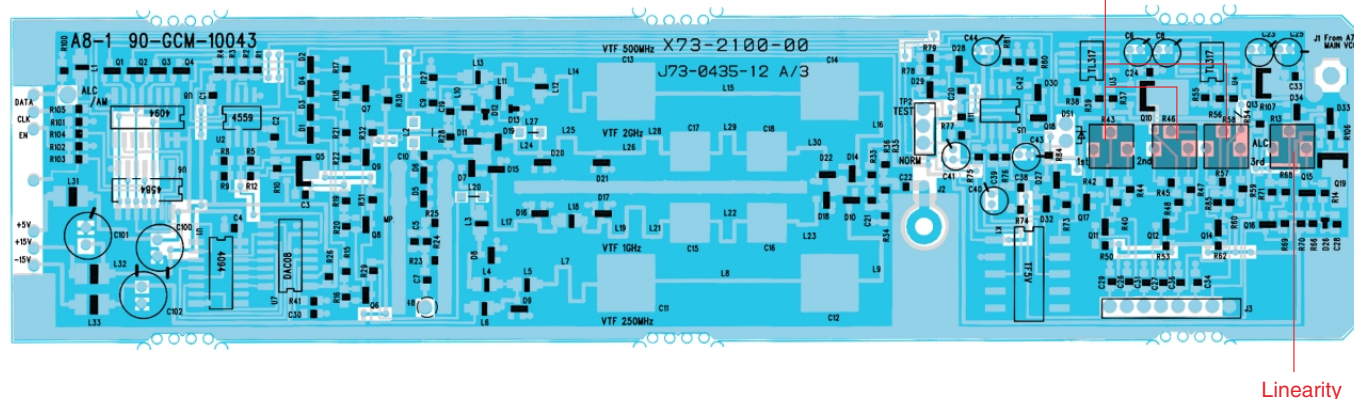
OUTPUT UNIT (X72-1220-00)

Parts side view



AMP UNIT (X73-2100-00)

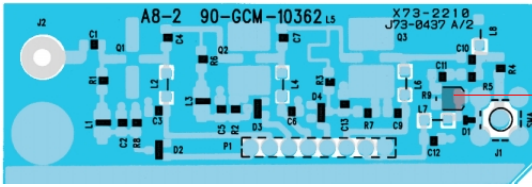
Parts side view



PC BOARD (Component side view)

AMP UNIT (X73-2110-00)

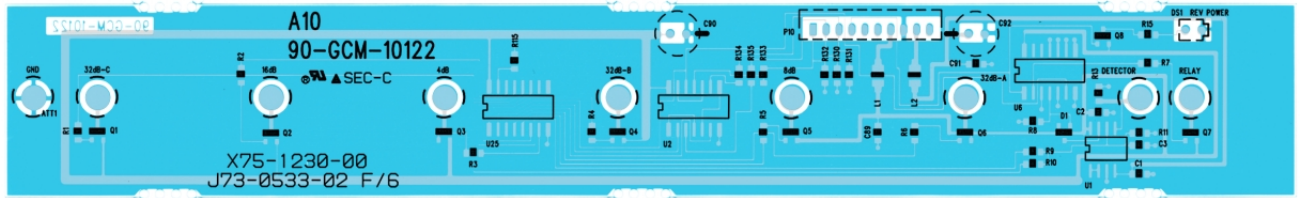
Parts side view



level adjustment and check

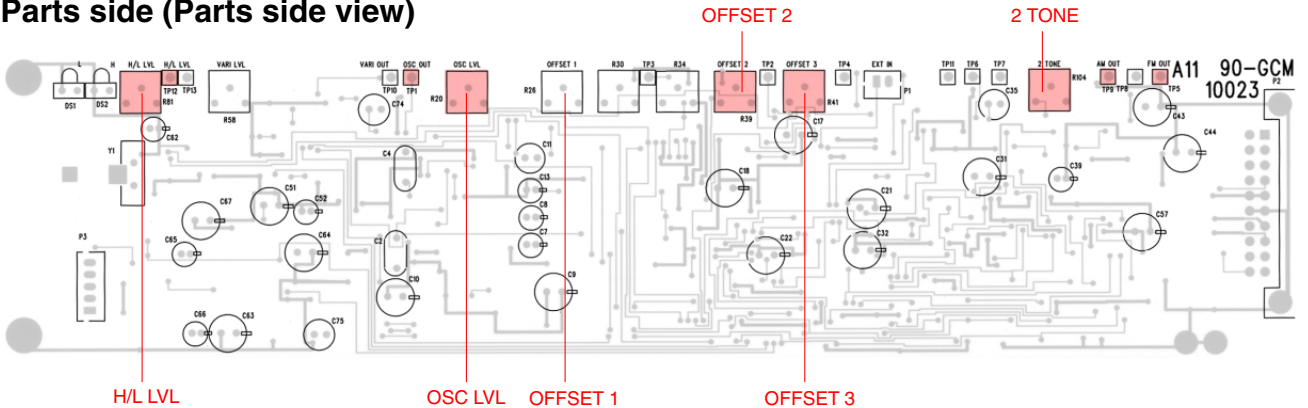
ATTENUATOR UNIT (X75-1230-00)

Parts side view



MODULATION UNIT (X76-1540-00)

Parts side (Parts side view)



Pattern side (Pattern side view)

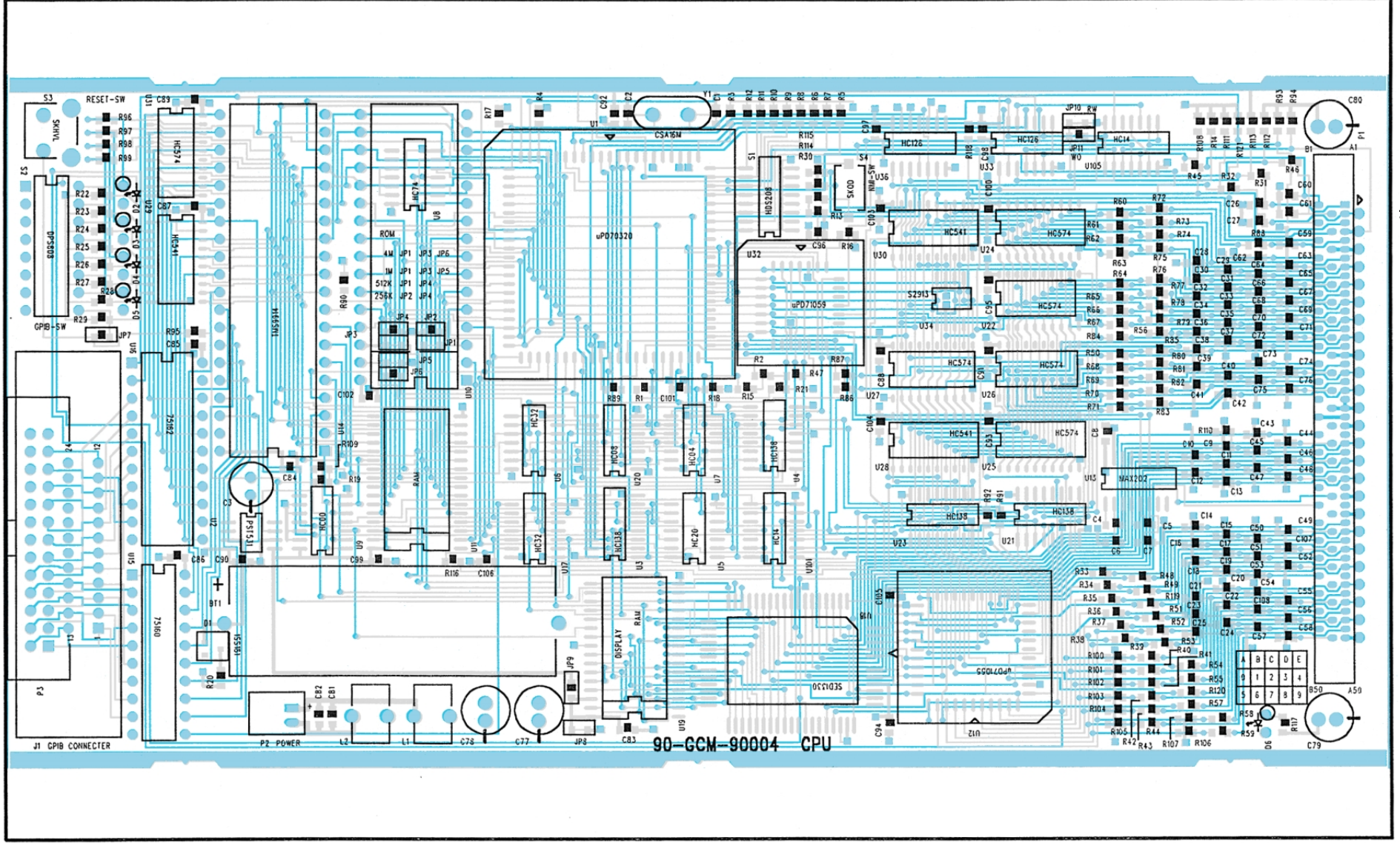


Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

CPU UNIT (X77-1970-00/SG-7200 X77-1970-01/SG-7130)

Parts side view

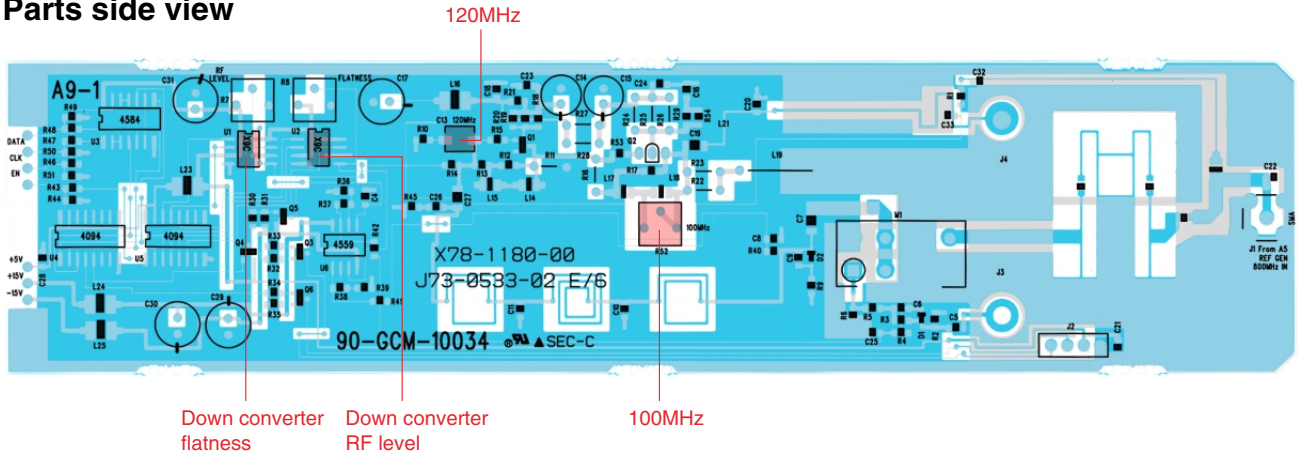


s and capacitors.

PC BOARD (Component side view)

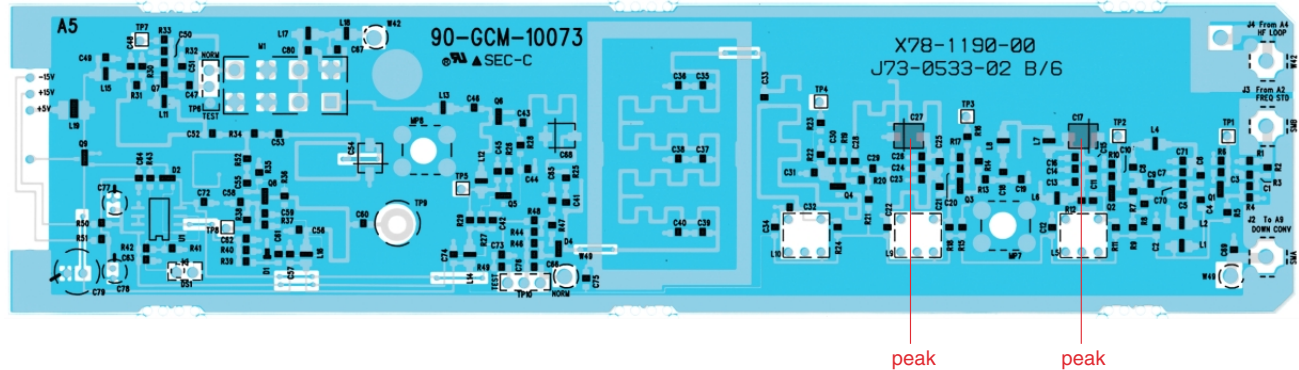
1 CONVERTER UNIT (X78-1180-00)

Parts side view



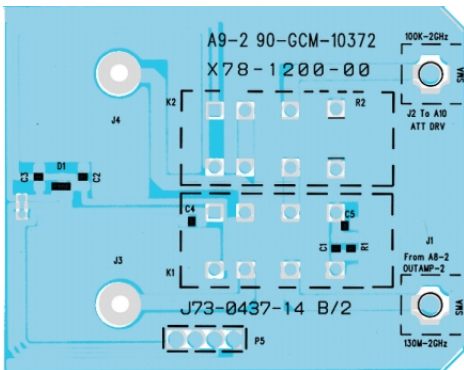
3 CONVERTER UNIT (X78-1190-00)

Parts side view



5 CONVERTER UNIT (X78-1200-00)

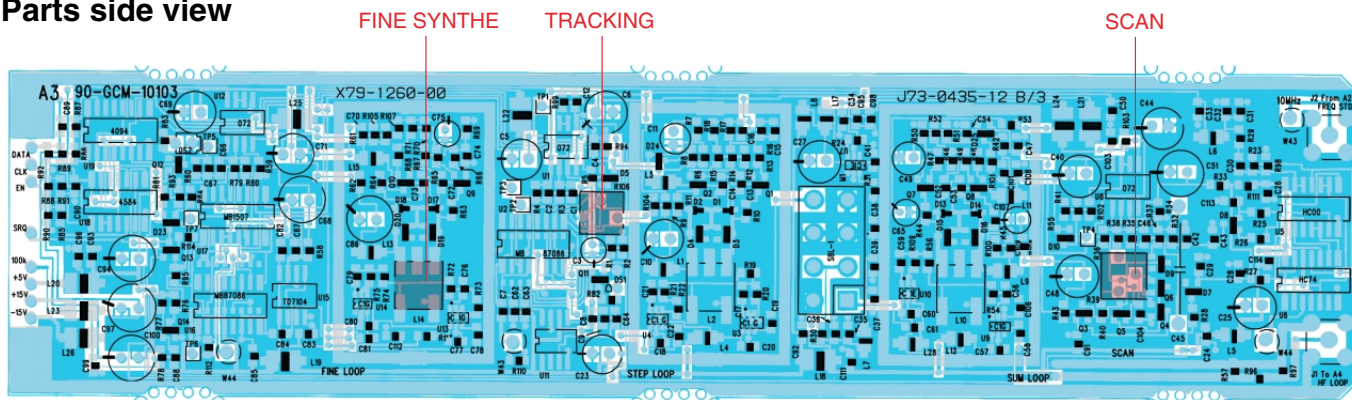
Parts side view



PC BOARD (Component side view)

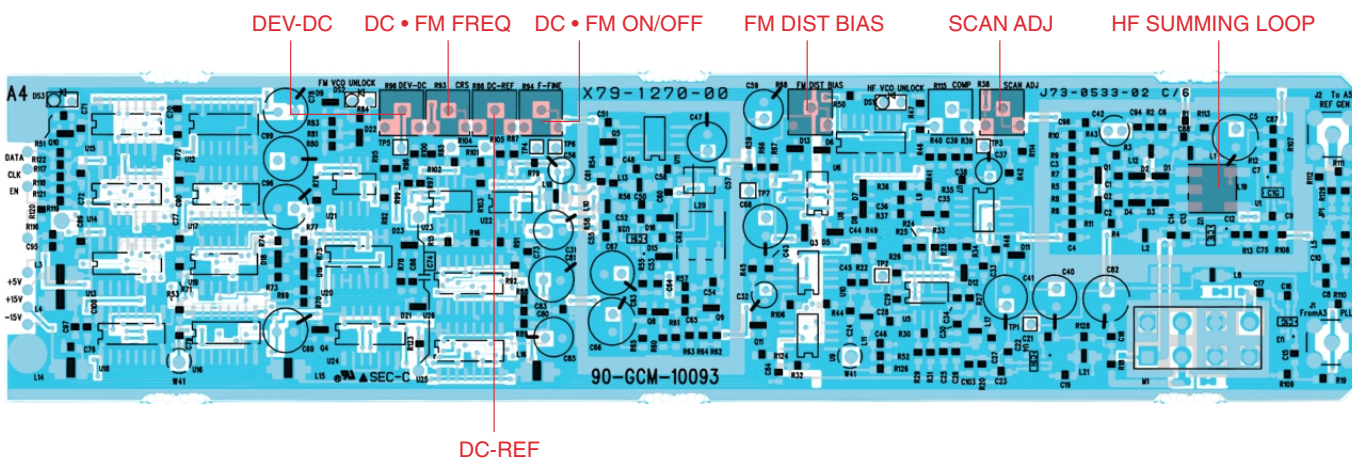
SIGNAL PROCESSOR UNIT (X79-1260-00)

Parts side view



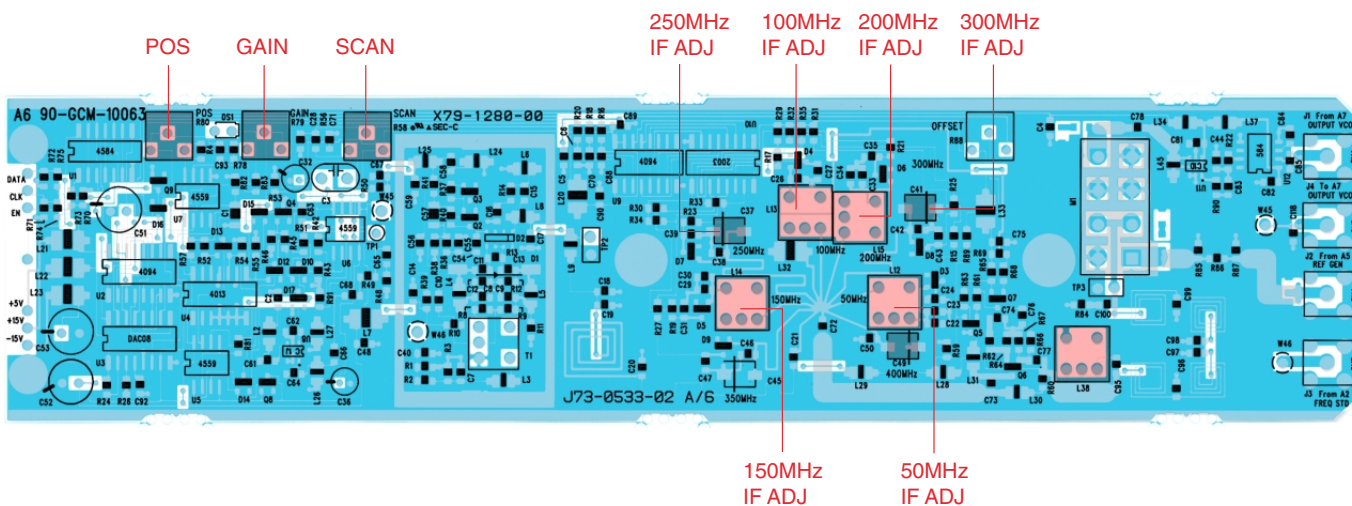
SIGNAL PROCESSOR UNIT (X79-1270-00)

Parts side view



SIGNAL PROCESSOR UNIT (X79-1280-00)

Parts side view



SG-7200/SG-7130

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KENWOOD TMI CORPORATION

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