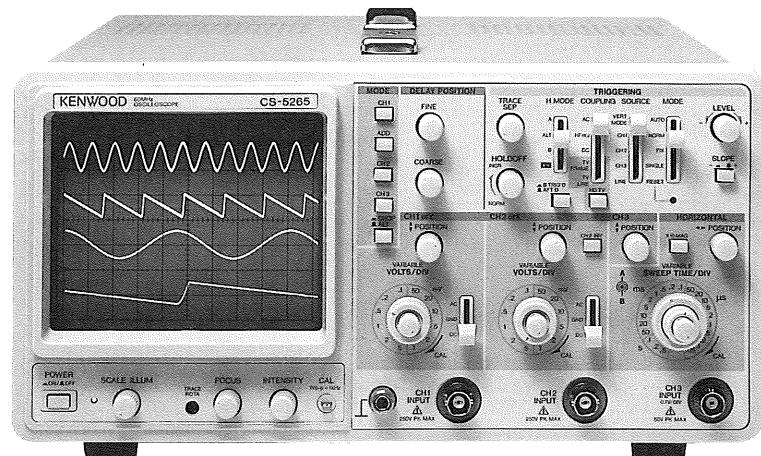
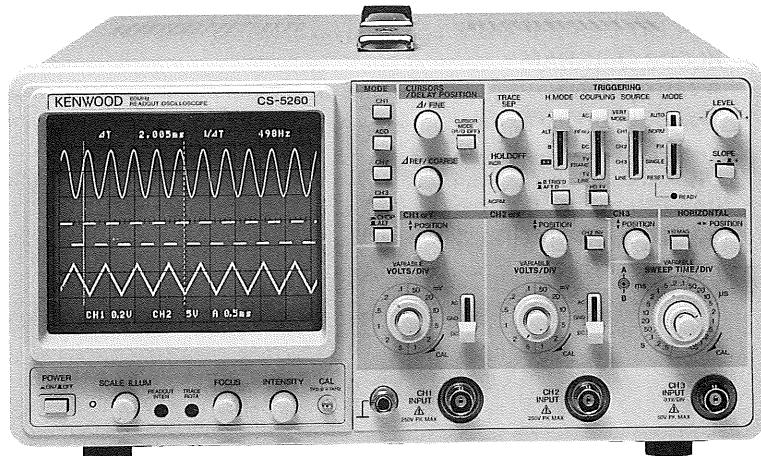


60MHz READOUT OSCILLOSCOPE
CS-5260
60MHz OSCILLOSCOPE
CS-5265

SERVICE MANUAL

KENWOOD CORPORATION



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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SPECIFICATIONS

CRT	
Type	150 mm rectangular tube with an integral graticule
Acceleration voltage	Approx. 12 kV
Effective area	8 × 10 divisions (1 division = 10 mm)
VERTICAL AXIS (COMMON TO CHANNELS 1 AND 2)	
Sensitivity (+10 to +35°C)	1 mV, 2 mV/div : ±5%, 5 mV to 5 V/div: ±3%
Attenuation	1-2-5 steps, 12 ranges, fine control between ranges
Input impedance	1 MΩ ± 2%, approx. 25 pF
Frequency response (-3 dB) (+10 to +35°C)	5mV to 5V/div DC : DC to 60 MHz AC : 5Hz to 60 MHz
Frequency response (+10 to +35°C)	1mV to 2mV/div DC: DC to 20MHz, AC: 5Hz to 20MHz
Rise time (+10 to +35°C)	5mV to 5V/div Approx. 5.8 ns
	1mV to 2mV/div Approx. 17.5 ns
Signal delay time	The leading edge may be checked using a square wave of the rise time less than that of this model.
Crosstalk	-40 dB or less (at 1 kHz)
△Maximum input voltage	500 Vp-p or 250 V (DC+AC peak, 1 kHz or less)
VERTICAL AXIS (CH3)	
Sensitivity (+10 to +35°C)	0.1 V/div: ±3%
Input impedance	1MΩ ± 2%, approx. 25 pF
Frequency response (-3 dB) (+10 to +35°C)	DC to 60 MHz
Rise time (+10 to +35°C)	Approx. 5.8 ns
Signal delay time	The leading edge may be checked using a square wave of the rise time less than that of this model.
△Maximum input voltage	100 Vp-p or 50 V (DC+AC peak, 1 kHz or less)
Operation	Single trace: CH1, CH2, CH3 or ADD single trace operation Multi-trace : 2 to 4 traces of CH1, CH2, CH3 and ADD ALT/CHOP: Display by selecting ALT and CHOP ADD : Composite waveform of CH1 and CH2 signals are displayed.

SPECIFICATIONS

Chop frequency	Approx. 250 kHz (in multi-trace operation)				
Channel polarity	Normal or inverted, CH2 only inverted				
Horizontal axis (CH2, except for $\times 10$ MAG operation)					
Sensitivity (+10 to +35°C)	Same as vertical axis (CH2)				
Input impedance	Same as vertical axis (CH2)				
Frequency response (-3 dB) (+10 to +35°C)	DC: DC to 1 MHz, AC: 5 Hz to 1 MHz				
X-Y phase difference	3° or less at 100 kHz				
Operation mode	X-Y mode is selected with H. MODE CH1: Y-axis, CH2: X-axis				
▲Maximum input voltage	Same as vertical axis (CH2)				
SWEEP					
Sweep types	A : A sweep ALT : Alternate A sweep and B sweep B : B sweep X-Y : X-Y oscilloscope operation				
Sweep time (+10 to +35°C)	<table> <tr> <td>A sweep</td> <td>0.5s to 50ns/div ±3% 1-2-5 steps, 22 ranges, fine adjustment between ranges</td> </tr> <tr> <td>B sweep</td> <td>50ms to 50ns/div ±3% 1-2-5 steps, 19 ranges, fine adjustment between ranges</td> </tr> </table>	A sweep	0.5s to 50ns/div ±3% 1-2-5 steps, 22 ranges, fine adjustment between ranges	B sweep	50ms to 50ns/div ±3% 1-2-5 steps, 19 ranges, fine adjustment between ranges
A sweep	0.5s to 50ns/div ±3% 1-2-5 steps, 22 ranges, fine adjustment between ranges				
B sweep	50ms to 50ns/div ±3% 1-2-5 steps, 19 ranges, fine adjustment between ranges				
Sweep magnified operation (+10 to +35°C)	$\times 10 \pm 5\%$ ($\pm 8\%$ for over 0.5 ns/div)				
Linearity (+10 to +35°C)	±3% ($\pm 5\%$ in $\times 10$ MAG operation)				
HOLDOFF	Continuously variable from A sweep NORM position				
Trace separation	B sweep is continuously variable by ±4 divisions or more with respect to A sweep.				
Delayed sweep operation	Continuous delay operation (AFTER DELAY) Synchronous delay operation (B TRG'D) : Synchronous with the trigger signal				
Delay time	Continuous control by 0.2 to 10 divisions for 0.5 div to maximum speed sweep				
Delay time error (+10 to +35°C)	[CS-5275] : ±(3% of set value + 1% of full scale) + (0 to 300 ns) [CS-5275] : Reading on CRT ±4% (0 to 300 ns)				
Delay jitter	10000 : 1 of a value 10 times as high as A sweep setting				

SPECIFICATIONS

TRIGGERING	
Trigger modes	AUTO : Automatic free running with no signal NORM : Triggered sweep FIX : Sweep at triggering point set to center of signal amplitude SINGLE: Single sweep mode RESET : Restarting single sweep operation
Trigger signal sources	VERT: Input signal selected for V. mode CH1 : Channel 1 input signal CH2 : Channel 2 input signal CH3 : Channel 3 input signal LINE: Commercial power line
Trigger coupling (For trigger sensitivity, see the table below.)	AC : AC coupling from 10 Hz HFREJ : Low-pass filter coupling up to 30 kHz DC : DC coupling TV FRAME: Composite video signal, vertical synchronization separation TV LINE : Composite video signal, horizontal synchronization separation

Trigger sensitivity (+10 to +35°C)

MODE	COUPLING	Signal frequency	Sensitivity (Amplitude)	
			NORM	FIX *
NORM	AC	10Hz to 40MHz	1div	1.5div
		40M to 60MHz	1.5div	2div
	HFREJ	10Hz to 30kHz	1div	1.5div
		over 30kHz	>min.	>min.
	DC	DC to 40MHz	1div	1.5div
		40M to 60MHz	1.5div	2div
	TV-F, -L	Composite video signal	1.5div	
	HDTV	HDTV video signal	1.5div	

AUTO : Same as above specifications for above 40Hz.

(The table shows the sensitivities in terms of the amplitude displayed on the CRT.)
(>min. for the HFREJ sensitivity shows that the amplitude necessary for synchronization increases.)

FIX * : Same as above specifications for above 50Hz.

SPECIFICATIONS

CALIBRATION SIGNAL : POSITIVE SQUARE WAVE, 1 Vp-p ±3%, APPROX. 1 kHz	
INTENSITY MODULATION	
Input voltage	Darkens at TTL level (+5 V).
Input impedance	Approx. 10 kΩ
Frequency response (+10 to +35°C)	DC to 5 MHz
△Maximum input voltage	100 Vp-p or 50V (DC+AC peak)
CH1 OUTPUT SIGNAL (WITH 50 Ω LOAD)	
Output voltage	Approx. 50 mVp-p/div
Output impedance	Approx. 50 Ω
Frequency response (-3dB)	1, 2 mV 100 Hz to 20 MHz 5 mV to 100 Hz to 60 MHz
TRACE ROTATION : TRACE ANGLE IS ADJUSTABLE WITH A SEMI-FIXED CONTROL ON PANEL.	
POWER SUPPLY	
Voltage	100/120/220/230 VAC ± 10 %
Frequency	50 Hz or 60 Hz
Power consumption	Approx. 48 W, 43 W Approx. 56VA, 51VA
DIMENSIONS AND WEIGHT (VALUES ENCLOSED IN PARENTHESES INCLUDE PROJECTIONS.)	
Width	300 mm (300 mm)
Height	150 mm (172 mm)
Depth	400 mm (469 mm)
Weight	Aprrox. 8.7 kg
OPERATING TEMPERATURE AND HUMIDITY	
Operating temperature and humidity	0 to 40°C, 85% RH or less
Storage temperature and humidity	-20 to 70°C, 85% RH or less
ACCESSORIES	
Probe	PC-31 : 10 MW ±1%, 12.5 pF±10%, 10 : 1 [CS-5260] PC-39 : 10 MW ±1%, 12.5 pF±10%, 10 : 1 [CS-5265]
	2 each
Instruction manual	1 copy
Adjusting screwdriver	1
Power cord	1
Replacement fuse	1 A×2 (for 100 V area) 630 mA×2 (for 200 V area)

SPECIFICATIONS

[The specifications shown below do not apply to the CS-5265.]

READOUT	
Set values	CH1 and CH2 scale factors (with probe detection), CH3 scale factor (0.1 V/div fixed, with no probe detection), V-UNCAL, ADD, INV, A/B sweep scale factors (MAG-converted), sweep - UNCAL, DELAY TIME, TRIG' D, X-Y
Cursor modes (Between Δ REF and Δ cursors) In X-Y mode, only Δ V1 may be set.	Δ V1 : Displayed in voltage with conversion according to CH1 scale factor Δ V2 : Displayed in voltage with conversion according to CH2 scale factor Δ V3 : Displayed in voltage with conversion according to CH3 0.1 V/div Δ T : Displayed in time with conversion according to A sweep scale factor 1/ Δ T: Displayed in frequency with conversion according to A sweep scale factor
In V, H-VARI or UNCAL mode	RATIO: Voltage ratio and time ratio are displayed, with 5 divisions on the CRT as 100%. PHASE: Phase difference is displayed, with 5 divisions on the CRT as 360°.
Cursor measurement	Resolution : 10 bits Measuring error: $\pm 4\%$ Measuring range: ± 3.6 divisions or more vertically from CRT center. ± 4.6 divisions or more horizontally from CRT center.

■ The specifications shown above are subject to change without notice.

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 at the fuse holder of the AC inlet. 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 60 Hz.

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 100 V to 230 V, 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 F 1 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)	1 A, 250 V Fast blow 6×30 mm	None	E30-1951-05
	Universal Europe 220 volt/50 Hz Rated 16 amp	North Europe 630 mA, 250 V Slow blow 5×20 mm	None	E30-1952-05
		Other Europe 630 mA, 250 V Slow blow 6×30 mm		
	U.K. 240 volt/50 Hz Rated 13 amp	630 mA, 250 V Slow blow 6×30 mm	None	E30-1947-05
	Australian 240 volt/50 Hz Rated 10 amp	630 mA, 250 V Slow blow 6×30 mm	None	E30-1821-15
	North American 240 volt/60 Hz Rated 15 amp (12 amp max; NEC)	630 mA, 250 V Slow blow 6×30 mm	None	—
	Switzerland 240 volt/50 Hz Rated 10 amp	630 mA, 250 V Slow blow 6×30 mm	None	—

Fig. 1 Power Input Voltage Configuration

CIRCUIT DESCRIPTION

VERTICAL PREAMPLIFIER UNIT

CH1, CH2

Each of the CH1 and CH2 inputs passes through an AC/DC/GND switch and enters the 1st attenuator (1/1, 1/10, 1/100).

The 1st attenuator is used in combination with the 2nd attenuator (1/1, 1/2, 1/4, 1/10) and the 5-fold function of the 2nd amplifier, to switch the 12 vertical ranges.

The head amp is composed of Q102 and U101 (Q202 and U201) and is a 1/1 buffer amp with an input impedance of 1 megohms and used for conversion of impedance. Q102 (Q202) is the source-follower. This head amp is installed between the 1st and 2nd attenuators.

Starting from the 2nd amp, this unit takes the differential amplifier configuration. The functions of U102 (U202) include the variation and inversion functions. The variation function allows to vary the gain continuously according to the voltage applied to pin 5. The inversion function allows to invert the phase according to the voltages applied to pins 6 and 7. As this function is provided only for CH2, CH1 is fixed. At the CH2 side, switch is done by Q215. Q103 (Q203) is the regulated current supply for U102 (U202).

Q106 and Q107 (Q206 and Q207) form an emitter-grounded amp.

Q108 to Q111 (Q208 to Q211) form the cascode amp of the differential amp. The vertical position can be moved by regulating the current applied to the emitter of Q111 (Q211) based on the panel operation.

CH3

With CH3, the attenuator is fixed. The signal impedance is converted by the buffer amp of source follower Q303 and regulated current supply Q304 and the signal is sent to emitter-follower Q305. Q305 is the signal side input stage of the differential amp.

Emitter-follower Q306 is the input stage of a constant-potential differential amp.

The outputs from Q305 and Q306 are input to the differential type cascode amp formed by Q307, Q308, Q310 and Q311. The current of the cascode amp is determined by regulated current supply Q309. The vertical position can be moved by regulating the current applied to the emitter of Q311 based on the panel operation.

Channel selector, delay line drive

As for the outputs from the position amps of the channels, only the signal of the channel with which the cathodes of CH1 - D104, D105, CH2 - D204, D205, CH3 - D301, D302, D304, D305 are turned "H" by the signals from V-MODE LOGIC is sent through CH1 - D103, D106, CH2 - D203, D206, CH3 - D303, D306 and transmitted to the delay line driver.

Q2 and Q3 form a feedback amp. Q1 lets the excessive bias current flow when CH1 or CH2 is in ADD mode.

Trigger amp, trigger selector

With CH1 (CH2), the differential outputs from U102 (U202) are

input to the emitter-followers Q112 and Q113 (Q212 and Q213), where Q113 (Q213) forms a cascode amp with Q114 (Q214). With CH3, the signal after the buffer amp is sent through the buffer of emitter-follower Q314, feedback amp Q312 an output as current from the collector of emitter-follower Q313.

Only the signal of the channel with which the cathode of CH1 - D108, CH2 - D208, CH3 - D308 is turned "H" by the signal from the trigger controller is sent through CH1 - D107, CH2 - D207, CH3 - D307 and output as current to the Horizontal unit. Q31 the excessive bias current flow when CH1 or CH2 is in ADD mode.

CH1 OUT

The CH1 output is sent from the collector of Q112, through emitter-follower Q51 and output at CH1 OUT of the Final unit.

Trigger controller

The data on the trigger source set on the panel is input to pin 1 of U1 and "H" or "L" is output at pins 4 to 8 according to the set state.

U2 is used to switch between the data from U1 and the CRT display data of each channel from V-MODE LOGIC. If the current mode is not V mode, the former data is selected. If the current mode is V mode, the latter data is selected for use in controlling the trigger selector.

Among CH1 - U2 pin 7, CH2 - U2 pin 9, CH3 - U2 pin 12, the terminal set with the panel is turned "H".

V-MODE LOGIC

U3 and U4 generates a signal synchronized with the display channel select signal from the panel and the end of horizontal sweep, and a signal for controlling the channel selector based on the CHOP signal. (Figure 1)

Q34 cuts off the power supply to U4 only at the instant the channel switch is pressed, in order to prevent malfunction.

Vertical range converter

U401, U403, S102 and S202 output the vertical range, CAL and UNCAL data by turning them into analog values using an opamp for use as the R/O data. (Figures 3, 4)

Horizontal range converter

U402 and S401 output the horizontal range data using an opamp, as analog values for R/O data. (Figure 5)

U404 (for main sweep), U405 (for sub-sweep) and S401 are used to switch the reference voltage for letting the sweep current of the 1-2-5 steps of horizontal sweep flow. (Figure 2)

FINAL UNIT

Final amplifier

The signal sent from the vertical preamp through the delay line is input to the feedback amp of Q1 and Q2. During A ALT B sweep, the variation of the vertical position of sweep B is controlled by the current applied to the base of Q2 based on the panel operation.

Q3 to Q6 and U1 are used to amplify the vertical signal and U1,

CIRCUIT DESCRIPTION

Q5 and Q6 are used to amplify the R/O characters. U1 is used to switch between the vertical signal and R/O signal. Q9 to Q14 are cascode-connected for use in driving the CRT.

AC inlet, fuse

An external commercial supply voltage switch and fuse holder are provided.

Line filter

A filter for elimination of common mode noise and normal mode noise is provided.

CH1 OUT

The signal from the vertical preamp is output externally via Q201 and Q202 as a signal with 50-ohm impedance.

HORIZONTAL UNIT

Trigger

The trigger signal supplied from the Vertical unit (X73-2070) is AC/DC coupled and the trigger level is added to it.

The obtained signal is input to the trigger shaping circuit to become a pulse signal.

If FIX is selected, the trigger level is fixed so that it is always around the center of the waveform.

With TV-V, the composite video signal is separated by the V sync separator and input to the trigger shaping circuit.

With TV-H, the composite video signal is separated by the H sync separator and input to the trigger shaping circuit.

HFreq is used to apply a 50 kHz LPF to the trigger signal.

The polarity of the trigger pulse signal can be changed with SLOPE +/--. The output signal is input to the sweep logic circuit.

There is an additional circuit which applies the trigger signal to the sweep logic in case the trigger pulse signal has not been input for a certain period and auto free-run mode has been selected.

Sweep

When the trigger pulse is input to the sweep logic, the sweep gate is activated and the sweep wave is output.

When the sweep wave reaches a certain level, the sweep stop circuit is activated to close the sweep gate and end sweep.

When sweep stop is activated, the hold-off circuit is activated and, in a certain period after it, the sweep logic enters the trigger standby state.

The delayed sweep is performed either as the AFTER DELAY sweep or B TRIG'D sweep.

With the AFTER DELAY sweep, the voltage level of the main sweep wave and the voltage set with DTP are compared and delayed sweep is performed using the result signal as the trigger.

With the B TRIG'D sweep, sweep is triggered by the next trigger signal input after the voltage level of sweep wave have reached the voltage set with DTP.

In case ALT sweep is set, the main sweep and delayed sweep are performed alternately.

Horizontal amp

This circuitry switches between the sweep wave generated in the sweep block and the X signal and add H-POSITION.

After being magnified by 10 times if MAG has been selected, the signal is input to the R/O switch.

Here, the R/O signal is added to the vertical signal and the signal is amplified by the final amp to a high enough voltage level to drive the CRT.

Intensity circuit

The Z signal is generated with the sweep gate of the main sweep and that of the delayed sweep. During ALT sweep, a waveform for increasing the intensity of the delayed sweep section is generated with the main sweep. The voltage set with the INTEN potentiometer is added to the X signal and the voltage set with the R/O INTEN potentiometer is added to the R/O blanking signal and they are input to the high voltage circuit.

The high voltage circuits generates the CRT cathode voltage, G1 voltage and P1 voltage based on the intensity signal and the FOCUS potentiometer.

The cathode voltage is controlled always constant by the opamp. For use with the after-accelerating CRT, the anode voltage is also generated by the high voltage circuit.

Power supply

AC voltages of +14.8 V, -14.8 V, +6 V, -6 V, +67 V and +170 V are input from the transformer, and they are turned into stable DC voltages of respectively +12 V, -12 V, +5 V, +55 V and +140 V, which are supplied to their respective units.

CHOP

To observe signals of multiple channels simultaneously, the vertical amp is switched with the CHOP signal.

PANEL UNIT

This unit sends the potentiometer and switch data from the control panel to other units.

A limiting circuit is provided to prevent the CHIP operation while multi-channel operation is not selected even when the CHOP key is pressed.

The voltage setting of DTP is made by the opamp in the range from 0 to +4 V. The CAL signal is a 1 kHz, 1 Vp-p square wave. The intensity is controlled by the PWM based on the output from the original oscillator of CAL.

R/O UNIT

The R/O unit (X77-1870-00) accepts the attenuator and sweep data sent from or through the Panel unit and outputs character data to be displayed on the CRT.

It is composed of the controller block (U1, U2, U4 U6, X1), blanking circuit (U5, U14, U15, X2), A/D converter block (U3, U16, U17) and character data output block (U7, U8 U9, U10, U13).

The controller block is composed of the 1-chip CPU (with built-in ROM), RAM, decoder, ALE and oscillator x 1. The 1-chip CPU

CIRCUIT DESCRIPTION

(U1) incorporates a ROM as described above, and the entire unit is controlled by the software written in this ROM. The 1-chip CPU is operated based on X1 (10 MHz). Before the start of operation, the reset signal is input from U18 when the power is switched on. The 1-chip CPU incorporates 8-bit A/D converters in the output ports, input ports and also internally, and it outputs character data for CRT display based on the data input through the A/D converters.

As for the output port configuration, P40 to P47 and P30 to P33 in the circuit diagram output comparison data for an external 12-bit A/D converter and P34 to P37 output the control data for use in switching the analog data to the external 12-bit A/D converter. As for the input port configuration, P60 to P64 are used to recognize the "H" or "L" level of the push switches on the panel and input the CURSOR MODE, B TRIG'D, CH2 INV and X10 MAG signals. Among them, the CURSOR MODE switch is a non-locking switch so a Schmitt circuit is provided before the signal is input to the port. P50 to P57 are the analog voltage input ports. The input voltage is sent to the internal 8-bit A/D converter, converted into digital data and becomes the CRT display data. The 1-chip CPU has a bus configuration of 8 data bus bits and 16 address bus bits. A the lower 8 bits of the address bus are also used as the data bus bits, IC (ALE circuit IC) U6 is provided for their separation.

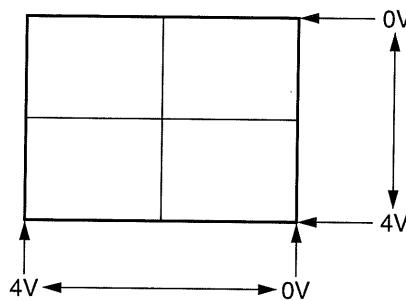
In addition to above, the controller block also includes a decoder (U4) and memory (U2). The decoder output is supplied to the memory as well as to the X latch CLK input, Y latch CLK input and blanking circuit block which will be described below. The memory functions as the system RAM of the 1-chip CPU and also stores CRT display data. The stored data is some of the data which has originally been prepared in the ROM inside the 1-chip CPU; only the data required for CRT display is stored in this memory.

Next, the blanking circuit block is composed of a 4 MHz oscillator composed of X2 and the inverter (U15), shift register (U14), inverter (U15) and OR (U5). It outputs the Blanking (R/O BLK), request (R/O REQ) and unblanking (R/O UBL) signals. The signals are output at the timing synchronized with the CLK signal from the decoder to X latch (U7) and Y latch (U8) and used to switch the display from waveform to character or from character to waveform and to clear the trace during switching. R/O BLK is used to clear the trace, R/O REQ is used to switch display between characters and traces and R/O UBL is used to illuminate a single dot in the character.

In synchronism with the signal outputs from the blanking circuit block, the character data output block outputs R/O-X (character dot position in Horizontal direction) and R/O-Y (character dot position in Vertical direction). The character data is sent from the memory (U2) described above to the X latch and Y latch, and the position data is sent through the address bus.

These data are latched simultaneously, and the latched data are input to the respective 8-bit D/A converters (U9, U10) to be converted into analog signals. After conversion, the obtained analog signals are input to analog switches U11 and U12, output from opamp U13 as signals with 0 to 4 V amplitudes, and sent respectively to the final amp.

The analog switches are supplied with the cursor voltages, which are used to determine the CRT screen position in case the cursor output is required. The relationship between these voltages and the CRT screen display is as shown in the following diagram.



In addition, there is an external 12-bit A/D converter for use as the means to input character data. This converts the cursor voltages, sweep time voltage, DTP voltage, etc., which require a certain resolution into digital data. The A/D converter is formed with an analog switch (U17), comparator (U3) and D/A converter (U16) for A/D conversion with the successive comparison method.

CIRCUIT DESCRIPTION

V-MODE LOGIC

When CH1 is selected with V-MODE

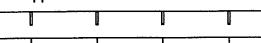
P12-9	<u>CH1</u>	L
P12-8	<u>CH2</u>	H
P12-7	<u>CH3</u>	H
P12-6	<u>ADD</u>	H
P9-5	V.CLK	
U3-6	C1E	
U3-9	C2E	
U3-5	<u>C1E</u>	
U3-7	<u>C2E</u>	
Q310-C	CH3	
Q311-C	(C1E AND C2E)	

Fig. 1-a

When CH2 is selected with V-MODE

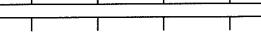
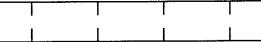
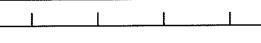
P12-9	<u>CH1</u>	H
P12-8	<u>CH2</u>	L
P12-7	<u>CH3</u>	H
P12-6	<u>ADD</u>	H
P9-5	V.CLK	
U3-6	C1E	
U3-9	C2E	
U3-5	<u>C1E</u>	
U3-7	<u>C2E</u>	
Q310-C	CH3	
Q311-C	(C1E AND C2E)	

Fig. 1-b

When CH3 is selected with V-MODE

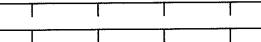
P12-9	<u>CH1</u>	H
P12-8	<u>CH2</u>	H
P12-7	<u>CH3</u>	L
P12-6	<u>ADD</u>	H
P9-5	V.CLK	
U3-6	C1E	
U3-9	C2E	
U3-5	<u>C1E</u>	
U3-7	<u>C2E</u>	
Q310-C	CH3	
Q311-C	(C1E AND C2E)	

Fig. 1-c

CIRCUIT DESCRIPTION

When ADD is selected with V-MODE

P12-9	CH1	H
P12-8	CH2	H
P12-7	CH3	H
P12-6	ADD	L
P9-5	V.CLK	—
U3-6	C1E	—
U3-9	C2E	—
U3-5	$\bar{C}1E$	—
U3-7	$\bar{C}2E$	—
Q310-C	CH3	—
Q311-C	($\bar{C}1E$ AND $\bar{C}2E$)	—

Fig. 1-d

There are 16 combinations obtained from the 4 states, and it is abnormal if all of these are "H".

When more than one combination are used, the state is switched at the negative going of V.CLK in the order shown below:

→ CH1 → CH3 → CH2 → ADD →

SWEEP CODE		A SWEEP					B SWEEP					VOLTAGE RANGE (V)	VOLTAGE (V)	VOLTAGE (V)
S301	a	b	c	d	e	f	g	h	j	k				
SWEEP TIME DIV	0.5s										< 0.168	Approx. -7.6	-12	
	0.2s	○									0.168 ~ 0.301			
	0.1s	○									0.302 ~ 0.504			
	50ms		○					○			0.505 ~ 0.704	↓		
	20ms	○	○			○		○			0.705 ~ 0.838			
	10ms	○	○				○	○			0.839 ~ 1.044			
	5ms			○						○	1.045 ~ 1.247			
	2ms	○		○	○					○	1.248 ~ 1.381	↓		
	1ms	○	○	○		○				○	1.382 ~ 1.584			
	0.5ms		○	○	○			○	○		1.585 ~ 1.784			
	0.2ms	○	○	○		○		○	○		1.785 ~ 1.918	↓		
	0.1ms	○	○	○	○		○	○	○		1.919 ~ 2.124			
	50μs				○					○	2.125 ~ 2.327	↓		
	20μs	○			○	○				○	2.328 ~ 2.461			
	10μs	○			○		○			○	2.462 ~ 2.664			
	5μs		○		○			○		○	2.665 ~ 2.864			
	2μs	○	○		○	○		○		○	2.865 ~ 2.998	↓		
	1μs	○	○		○		○	○		○	2.999 ~ 3.204			
	0.5μs			○	○				○	○	3.205 ~ 3.407			
	0.2μs	○		○	○	○			○	○	3.408 ~ 3.541	↓		
	0.1μs		○	○	○	○			○	○	3.542 ~ 3.743			
	0.05μs		○	○	○			○	○	○	> 3.743	Approx. -7.6		
CHECK POINTS		X73-2070-00					P11-3, 2					P10-9, 4	P10-6, 1	
		X77-1870-00					P23-11, 13							

Fig. 2

CIRCUIT DESCRIPTION

- CH1 ATT & CH2 ATT voltage check table

V-Range (/div)	Voltage range (V)
5V	4.124 ~ 4.450
2V	3.790 ~ 4.123
1V	3.456 ~ 3.789
0.5V	3.130 ~ 3.455
0.2V	2.804 ~ 3.129
0.1V	2.470 ~ 2.803
50mV	2.136 ~ 2.469
20mV	1.810 ~ 2.135
10mV	1.484 ~ 1.809
5mV	1.150 ~ 1.483
2mV	0.816 ~ 1.149
1mV	0.490 ~ 0.815

Fig. 3

CH1 CHECK POINT P23-4
CH2 CHECK POINT P23-6

- UNCAL voltage check table

CH1 CAL	CH2 CAL	SWP CAL	Voltage range (V)
>	>	>	4.406 ~ 4.860
>	>	CAL	3.777 ~ 4.405
>	CAL	>	3.147 ~ 3.776
>	CAL	CAL	2.518 ~ 3.146
CAL	>	>	1.888 ~ 2.517
CAL	>	CAL	1.257 ~ 1.887
CAL	CAL	>	0.626 ~ 1.256
CAL	CAL	CAL	0.156 ~ 0.625

Fig. 4

CHECK POINT P23-15

- SWEEP CODE voltage check table

SWEEP TIME (/div)	Voltage range (V)
50ns	≥ 3.744
0.1μs	3.542 ~ 3.743
0.2μs	3.408 ~ 3.541
0.5μs	3.205 ~ 3.407
1μs	2.999 ~ 3.204
2μs	2.865 ~ 2.998
5μs	2.665 ~ 2.864
10μs	2.462 ~ 2.664
20μs	2.328 ~ 2.461
50μs	2.125 ~ 2.327
0.1ms	1.919 ~ 2.124
0.2ms	1.785 ~ 1.918
0.5ms	1.585 ~ 1.784
1ms	1.382 ~ 1.585
2ms	1.248 ~ 1.381
5ms	1.045 ~ 1.247
10ms	0.839 ~ 1.044
20ms	0.705 ~ 0.838
50ms	0.505 ~ 0.704
0.1s	0.302 ~ 0.504
0.2s	0.168 ~ 0.301
0.5s	≤ 0.167

Fig. 5

14 CHECK POINT
A SWEEP P23-11
B SWEEP P23-13

- V-MODE level check table

V-MODE	OFF	ON	OFF	ON	OFF	ON	OFF	ON
CH1	OFF	ON	OFF	ON	OFF	ON	OFF	ON
ADD	OFF	OFF	ON	ON	OFF	OFF	ON	ON
CH2	OFF	OFF	OFF	OFF	ON	ON	ON	ON
	↓	↓	↓	↓	↓	↓	↓	↓
CH1	L	L	H	L	H	L	H	L
ADD	H	H	L	L	H	H	L	L
CH2	H	H	H	H	L	L	L	L
	↓	↓	↓	↓	↓	↓	↓	↓
Display	CH1 (CH3)*	CH1	CH2	CH1 + CH2	CH2	CH1	CH2	CH1 + CH2

* CH3 display is used when only CH3 is ON.

Fig. 6

CHECK POINT P23-4
P23-10
P24-6

- MAG level check

ON	OFF
L	H

CHECK POINT P23-17

Fig. 7

- CH2 INV level check table

ON	OFF
L	H

CHECK POINT P23-12

Fig. 8

- B TRIG'D level check table

ON	OFF
L	H

CHECK POINT P23-19

Fig. 9

- H DISPLAY voltage check table

	Output voltage range (V)
A	≥ 2.085
ALT	1.381 ~ 2.084
B	0.704 ~ 1.380
X-Y	≤ 0.703

CHECK POINT P23-20

Fig. 10

- Probe voltage check table

	Output voltage range (V)
1/1	≥ 4.197
1/10	3.176 ~ 4.196
1/100	≤ 3.175

CHECK POINT
CH1PB : P23-3
CH2PB : P23-5

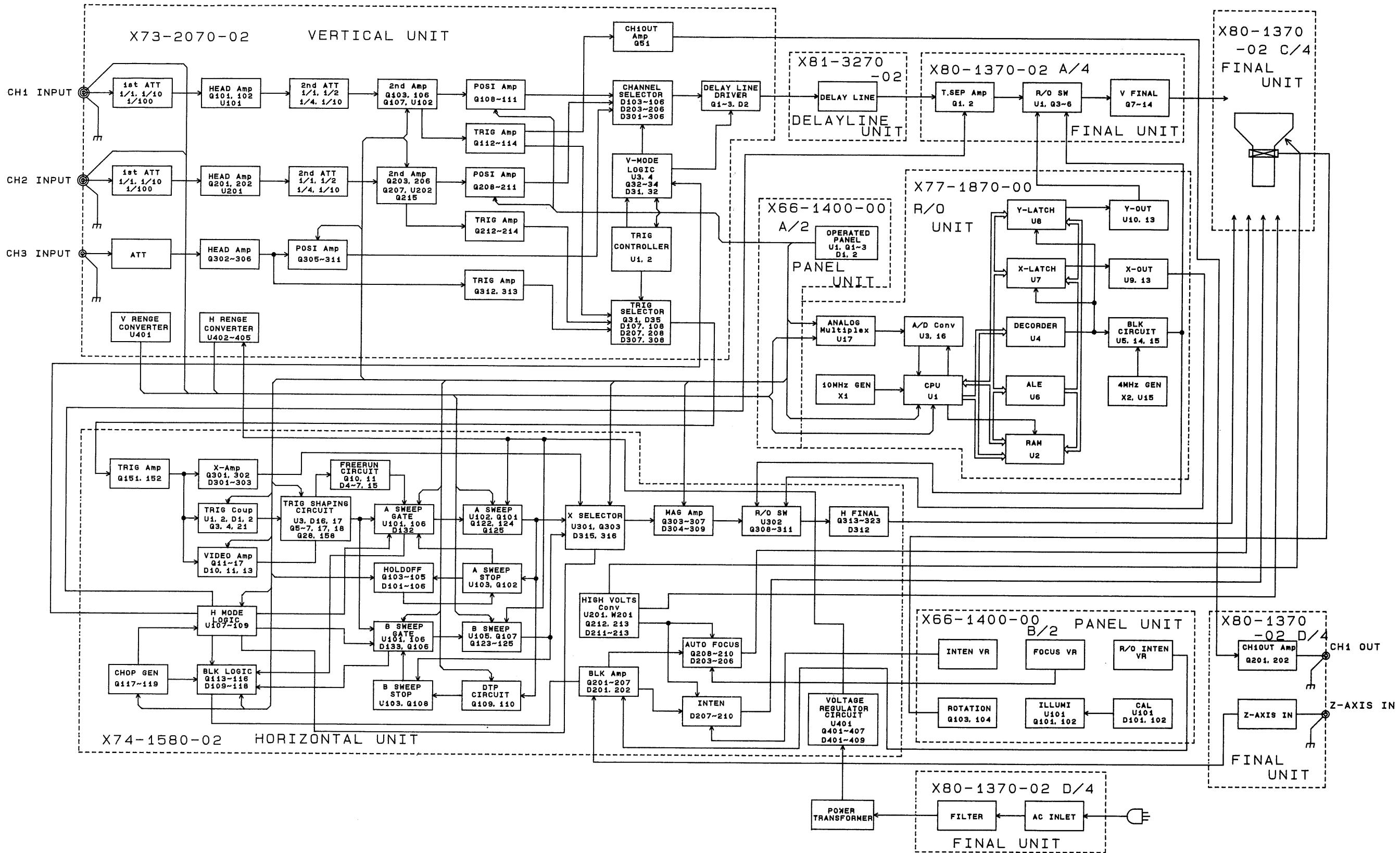
Fig. 11

- CURSOR voltage check table

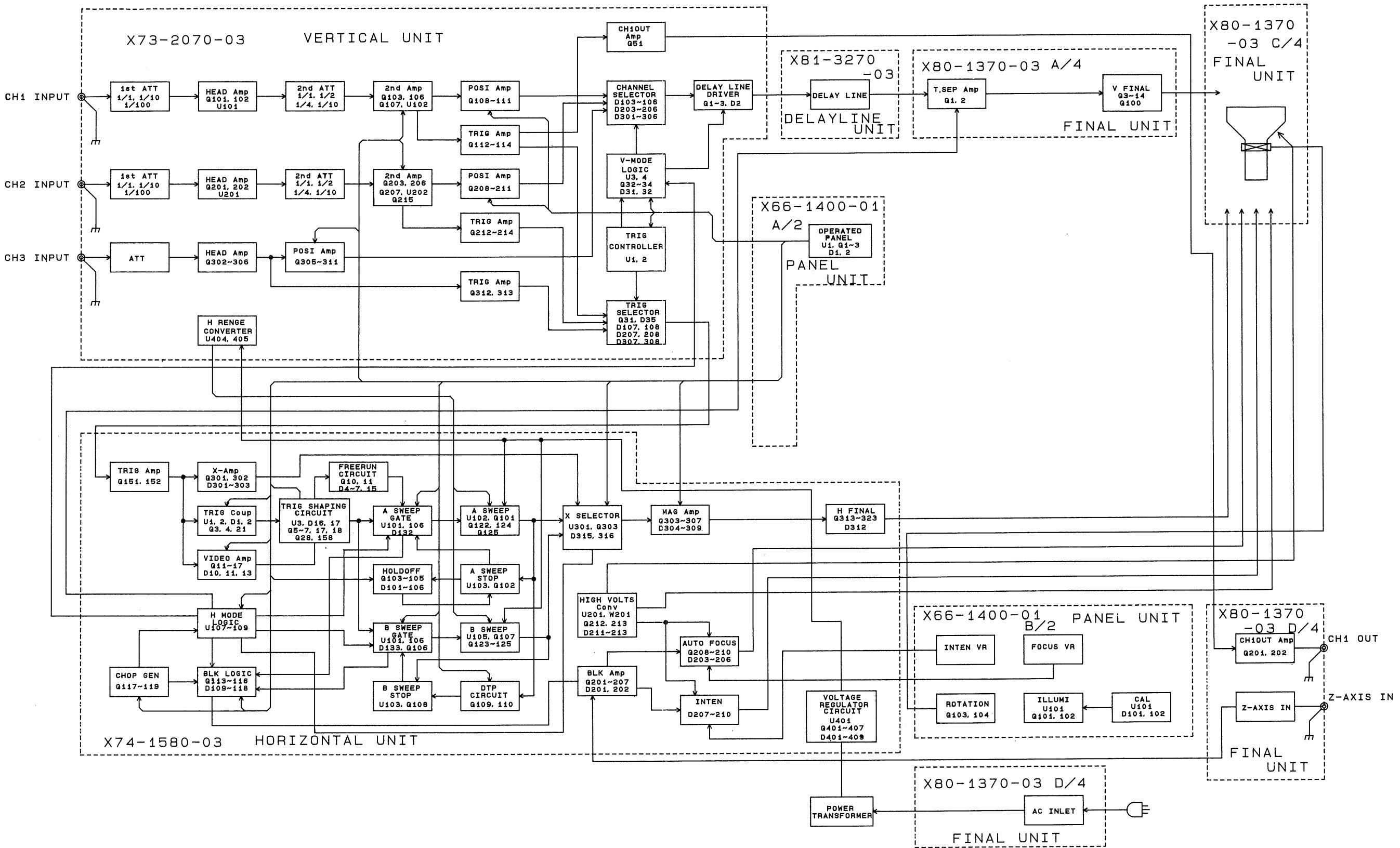
ON	OFF
L	H

Fig. 12

CS-5260 BLOCK DIAGRAM



CS-5265 BLOCK DIAGRAM



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 scope, check the power supply voltage.

TEST EQUIPMENT REQUIRED

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

Test Equipment	Model	Minimum Specification
Digital Multi-Meter	DL-712 (KENWOOD)	Impedance: More than 10 MΩ, Measuring range: 0.2 V to 1000 V
Sine-Wave Generator	651 B (YHP)	Frequency: 10 Hz to 10 MHz, constant voltage over tuning range
Sine-Wave Generator	SG-503 (Tektronix)	Frequency: 50 kHz to 100 MHz, Output impedance: 50 Ω, constant voltage over tuning range
Square-Wave Generator	PG-506 (Tektronix)	Output signal: 1 kHz, Amplitude: 10 mVp-p to 10 Vp-p, Accuracy: within ±1%, Rise time: 35ns or less 100 kHz, Rise time: 1 ns or less
Q Meter	4343B (YHP)	—
Color Pattern Generator	CG-921 (KENWOOD)	—
Oscilloscope	CS-6040 (KENWOOD)	Sensitivity: more than 1 mV Frequency response: More than 150 MHz
Time-Marker Generator	TG-501 (Tektronix)	Time mark: 0.5 s to 0.1 μs repetitive waveform
High-Voltage Probe	—	Input Impedance: 1000 MΩ
Termination	—	Impedance: 50 Ω Accuracy: within 3%
Termination	—	3 watts type impedance: 50 Ω
Attenuator	—	–20 dB attenuation (50 Ω)

Table 1

PREPARATION FOR ADJUSTMENT

Control Settings

The control settings listed below must be used for each adjustment procedure.

Exceptions to these settings will be noted as they occur. After completing a adjustment, return the controls to the following settings.

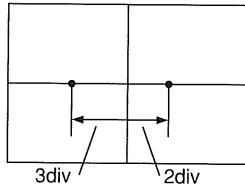
NAME OF KNOBS	POSITION
INTEN	12 o'clock
FOCUS	Optimum position
CH1, CH2, CH3 ▲ POSITION	Mechanical center
◀ ▶ POSITION	Mechanical center
× 10 MAG	OFF
VARIABLE, H.VARIABLE (VOLTS/DIV, SWEEP TIME/DIV)	CAL
AC-GND-DC (CH1 and CH2)	DC (GND at no signal)
VERTICAL MODE	CH1
HORIZONTAL MODE	A
TRIGGERING COUPLING	AC
TRIGGERING SOURCE	VERT MODE
TRIGGERING MODE	AUTO
TRIGGERING LEVEL	Mechanical center
VOLTS/DIV (CH1 and CH2)	5 V/DIV
A/B SWEEP TIME/DIV	0.5 s/50 ms
TRACE SEP	Fully CCW
HOLD OFF	Fully CCW
SLOPE	■ +

Table 2

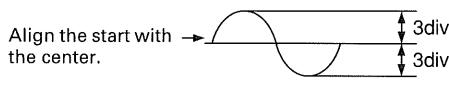
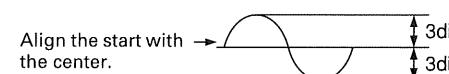
ADJUSTMENT

Item	Adjustment	P.C.B.	Procedure
Operating voltage	VR4 VR303	X80-1370 X74-1580	V.MODE: CH1, CH2. AC-DC: GND (both CH), VOLTS: 10 mV (both CH), H.DISPLAY: X-Y, R/O: OFF 1) Move the spot to the CRT center by operating the POSI controls. 2) Attach the multimeter probes across P5-1 and GND of X80-1370 and adjust VR4 to the voltage 82.5 V. 3) Attach the multimeter probes across P7-1 and GND of X74-1580 and adjust VR303 so that the voltage is 70 V. 4) Attach the probe to P7-4 and ensure that the voltage reading is approx. 70 V.
Focus Center and ASTIG	VR201	X74-1580	V.MODE: CH1, CH2, AC-DC: GND (both CH), VOLTS: 10 mV (both CH), H.DISPLAY: X-Y 1) Move the spot to the CRT center by operating the POSI controls. 2) Adjust the spot to the best point with FOCUS on the panel and ASTIG (VR305). 3) Set FOCUS on the panel to the 12:00 position and adjust VR201 to move the spot to the best point.
Intensity	VR202	X74-1580	V.MODE: CH1, CH2. AC-DC: GND (both CH), VOLTS: 10 mV (both CH), H.DISPLAY: X-Y 1) Set INTEN to the 10:00 position. 2) At the 10:00 position, adjust so that the spot disappears.
Cursor Y-Gain and POSI * In case the R/O unit is not used, ignore this item.	VR3 (Gain) VR2 (POSI)	X80-1370	V.MODE: CH1, CH2. AC-DC: GND (both CH), VOLTS: 10 mV (both CH), H.DISPLAY: A, R/O: ON, A.SWEEP: 1 ms 1) Set the R/O display to 6.00 by operating the cursor POSI controls. 2) Adjust VR3 and VR2 so that the interval between cursors is 6 div. 3) Maximize the cursor interval by operating the cursor POSI controls. 4) Adjust VR2 to make it uniform.
Cursor X-Gain and POSI * In case the R/O unit is not used, adjust only VR304. The VR can be used to adjust the length of the SWEEP TIME 1 ms trace.	VR304 (Gain) VR306 (POSI)	X74-1580	V.MODE: CH1, CH2. AC-DC: GND (both CH), VOLTS: 10 mV (both CH), H.DISPLAY: A, R/O: ON (1/ΔT), A.SWEEP: 1 ms 1) Set the R/O display to 8.00 by operating the cursor POSI controls. 2) Adjust VR304 and V306 so that the cursor interval is 8 div.. 3) Maximize the cursor interval by operating the cursor POSI controls. 4) Adjust VR306 to make it uniform. In case the R/O unit is not used, VR304 is to be adjusted in the SWEEP TIME 1 ms adjustment.
CH1 Gain	VR1 (10 mV) VR102 (1 mV)	X80-1370 X73-2070	V.MODE: CH1, AC-DC: DC, H.DISPLAY: A, VOLTS: 10 mV, VARI: CAL. 1) Input a 50 mV square wave signal. 2) Adjust so that the amplitude is 5 div. (10 mV range) 3) Switch VOLTS to 1 mV and input a 5 mV square wave signal. 4) Adjust so that the amplitude is 5 div. (1 mV range)
CH2 Gain	VR207 (10 mV) VR202 (1 mV)	X73-2070	V.MODE: CH2, AC-DC: DC, H DISPLAY: A, VOLTS: 10 mV, VARI: CAL. 1) Input a 50 mV square wave signal. 2) Adjust so that the amplitude is 5 div. (10 mV range) 3) Switch VOLTS to 1 mV and input a 5 mV square wave signal. 4) Adjust so that the amplitude is 5 div. (1 mV range)

ADJUSTMENT

Item	Adjustment	P.C.B.	Procedure
X-Gain * In case the R/O unit is not used, do not adjust this item now but adjust after H.POSI.	VR308	X74-1580	<p>H.DISPLAY: X-Y, AC-DC: DC VOLTS: 10 mV, VARI: CAL. 1) Input a 50 mV square wave signal to CH2. 2) Adjust so that the amplitude is 5 div. (10 mV range) * Make the adjustment to 5 div., at the CRT center.</p> 
CH3 Gain	VR301	X73-2070	<p>V.MODE: CH3, H.DISPLAY: A 1) Input a 0.5 V square wave signal. 2) Adjust so that the amplitude is 5 div..(0.1 V range)</p>
CH1 Step ATT Balance	VR103	X73-2070	<p>V.MODE: CH1, AC-DC: GND (both CH) VOLTS: 5 mV (both CH) H.DISPLAY: A 1) Adjust so that the trace does not move when VOLTS is switched from 5 mV to 2 mV. * Adjust after switching to 2 mV with reference to the 5 mV position.</p>
CH1 VARIABLE Balance	VR104	X73-2070	<p>V.MODE: CH1, AC-DC: GND (both CH) VOLTS: 5 mV (both CH) H.DISPLAY: A Adjust by setting VARIABLE to the MIN (fully counterclockwise) position with reference to the MAX (CAL) position. * Ensure that the trace does not move when VARIABLE is switched between MIN ↔ MAX.</p>
CH2 Step ATT Balance	VR203	X73-2070	<p>V.MODE: CH2, AC-DC: GND, VOLTS: 5 mV, H.DISPLAY: A. 1) Adjust so that the trace does not move when VOLTS is switched from 5 mV to 2 mV. * Adjust after switching to 2 mV with reference to the 5 mV position.</p>
CH2 VARIABLE Balance	VR204	X73-2070	<p>V.MODE: CH2, AC-DC: GND, VOLTS: 5 mV, H.DISPLAY: A. 1) Adjust by setting VARIABLE to the MIN (fully counterclockwise) position with reference to the MAX (CAL) position. * Ensure that the trace does not move when VARIABLE is switched between MIN ↔ MAX.</p>
CH2 INV Balance	VR208	X73-2070	<p>V.MODE: CH2, AC-DC: GND, VOLTS: 5 mV, H.DISPLAY: A. 1) Adjust so that the trace does not move when CH2 INV is switched ON-OFF. 2) Check CH2 STEP ATT BAL and VARI BAL and, if any is deviated, re-adjust following the adjustment procedure.</p>
ADD POSI	VR1	X73-2070	<p>V.MODE: CH1, ADD, AC-DC: GND, VOLTS: 5 mV H.DISPLAY: A 1) Superimpose the two displayed traces by operating CH2 POSI. 2) Switch V.MODE CH2 ON. (After this, CH1, CH2 and ADD of V.MODE are ON.) 3) Superimpose the two displayed traces by operating CH1 POSI. 4) Adjust the trace to the center of scale. (The CRT seems to display a single trace but it actually consists of a superimposition of 3 traces.)</p>

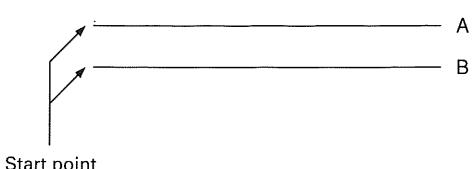
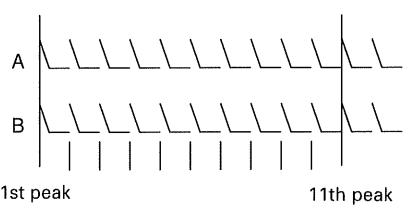
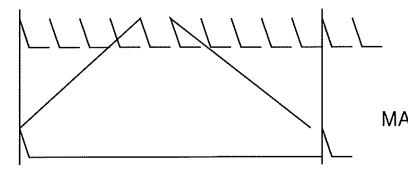
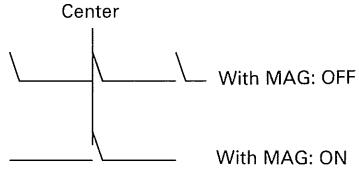
ADJUSTMENT

Item	Adjustment	P.C.B.	Procedure
V.POSI Center	VR106 (CH1) VR206 (CH2) VR302 (CH3)	X73-2070	<p>V.MODE: CH1, CH2, CH3, VOLTS: 5 mV, H.DISPLAY: A, AC-DC: GND.</p> <p>1) Set POSI of each CH to the 12:00 position. 2) Adjust the trace of each CH to the scale center.</p>
CH1 Waveform Shaping	TC102 (0.1 V) TC104 (1 V)	X73-2070	<p>V.MODE: CH1, AC-DC: DC, VARI: CAL, VOLTS: 10 mV (ideal waveform), H.DISPLAY: A.</p> <p>1) Input a 1 kHz square wave to the CH1 input. 2) Adjust so that the waveforms at 0.1 V and 1 V are flat.</p>
CH2 Waveform Shaping	TC202 (0.1 V) TC204 (1 V)	X73-2070	<p>V.MODE: CH2, AC-DC: DC, VARI: CAL, VOLTS: 10 mV (ideal waveform), H.DISPLAY: A.</p> <p>1) Input a 1 kHz square wave to the CH2 input. 2) Adjust so that the waveforms at 0.1 V and 1 V are flat.</p>
CH3 Waveform Shaping	TC301	X73-2070	<p>V.MODE: CH3, H.DISPLAY: A.</p> <p>1) Input a 1 kHz square wave to the CH1 input and adjust so that the waveform is flat.</p>
Input Capacity	TC101 (0.1 V) TC103 (1 V)	X73-2070	<p>V.MODE: CH1, AC-DC: DC, VARI: CAL, VOLTS: 10 mV (reference), H.DISPLAY: A.</p> <p>1) Connect a capacity meter to the CH1 input. 2) Measure the capacity of the 10 mV range. (No more than 25 p) 3) At 0.1 V and 1 V, adjust to obtain the same values as 10 mV.</p>
Input Capacity	TC201 (0.1 V) TC203 (1 V)	X73-2070	<p>V.MODE: CH2 AC-DC: DC, VARI: CAL, VOLTS: 10 mV (reference), H.DISPLAY: A.</p> <p>1) Connect a capacity meter to the CH2 input. 2) Measure the capacity of the 10 mV range. (No more than 25 p) 3) At 0.1 V and 1 V, adjust to obtain the same values as 10 mV.</p>
FIX Level	VR2	X74-1580	<p>V.MODE: CH1, AC-DC: DC, VOLTS: 0.1 V, TRIG MODE: FIX, SWEEP T: 0.2 ms.</p> <p>1) Input 1 kHz sine wave to CH1 and set it so that it extends by 3 div., above and below the scale center line. 2) Adjust so that the waveform starts from the scale center line when SLOPE is switched between +/-. 3) Set the amplitude to 1 div., switch SLOPE to + and -, and ensure that triggering is applied. (If it is not applied, re-adjust now.)</p> <p align="center">Align the start with → the center. </p>
TRIG Level	VR1	X74-1580	<p>V.MODE: CH1, AC-DC: DC, VOLTS: 0.1 V, TRIG MODE: AUTO, SWEEP T: 0.2 ms.</p> <p>1) Input 1 kHz sine wave to CH1 and set it so that it extends by 3 div., above and below the scale center line. 2) Set TRIG LEVEL to the 12:00 position and adjust so that the waveform starts from the scale center line.</p> <p align="center">Align the start with → the center. </p>

ADJUSTMENT

Item	Adjustment	P.C.B.	Procedure
CH1 TRIG DC Coupling	VR105	X73-2070	<p>V.MODE: CH1, AC-DC: DC, VOLTS: 0.1 V, TRIG MODE: AUTO, SWEEP T: 0.2 ms, COUPLING: AC.</p> <p>1) Input 1 kHz sine wave to CH1 and set it so that it extends by 3 div., above and below the scale center line. 2) Adjust TRIG LEVEL so that the waveform starts from the scale center line. 3) Switch COUPLING to DC and adjust so that the waveform starts from the scale center line.</p> <p align="center">Align the start with → the center. </p>
CH2 TRIG DC Coupling	VR205	X73-2070	<p>V.MODE: CH2, AC-DC: DC, VOLTS: 0.1 V, TRIG MODE: AUTO, SWEEP T: 0.2 ms, COUPLING: AC.</p> <p>1) Input 1 kHz sine wave to CH2 and set it so that it extends by 3 div., above and below the scale center line. 2) Adjust TRIG LEVEL so that the waveform starts from the scale center line. 3) Switch COUPLING to DC and adjust so that the waveform starts from the scale center line.</p> <p align="center">Align the start with → the center. </p>
CH3 TRIG DC Coupling	VR303	X73-2070	<p>V.MODE: CH3, TRIG MODE: AUTO, SWEEP T: 0.2 ms.</p> <p>1) Set the trace to the scale center by operating V.POSI. 2) Input a 1 kHz sine wave to CH1 and set it so that it extends by 3 div., above and below the scale center line. (As CH3 is fixed to DC, it may not be triggered at this time. But it can be triggered by adjustment.) 3) Adjust so that the waveform starts from the scale center line.</p> <p align="center">Align the start with → the center. </p>
TRIG ADD	VR31	X73-2070	<p>V.MODE: CH1, CH2, AC-DC: DC, VOLTS: 0.1 V, TRIG MODE: AUTO, SWEEP T: 0.2 ms, COUPLING: AC</p> <p>1) Set the traces of each CH to the scale center position by operating V.POSI. 2) Switch CH1 and CH2 to OFF and ADD to ON. 3) Input a 1 kHz sine wave to CH1 and set it so that it extends by 3 div., above and below the scale center line. 4) Adjust TRIG LEVEL so that the waveform starts from the scale center line. 5) Switch COUPLING to DC and adjust so that the waveform starts from the scale center line.</p>

ADJUSTMENT

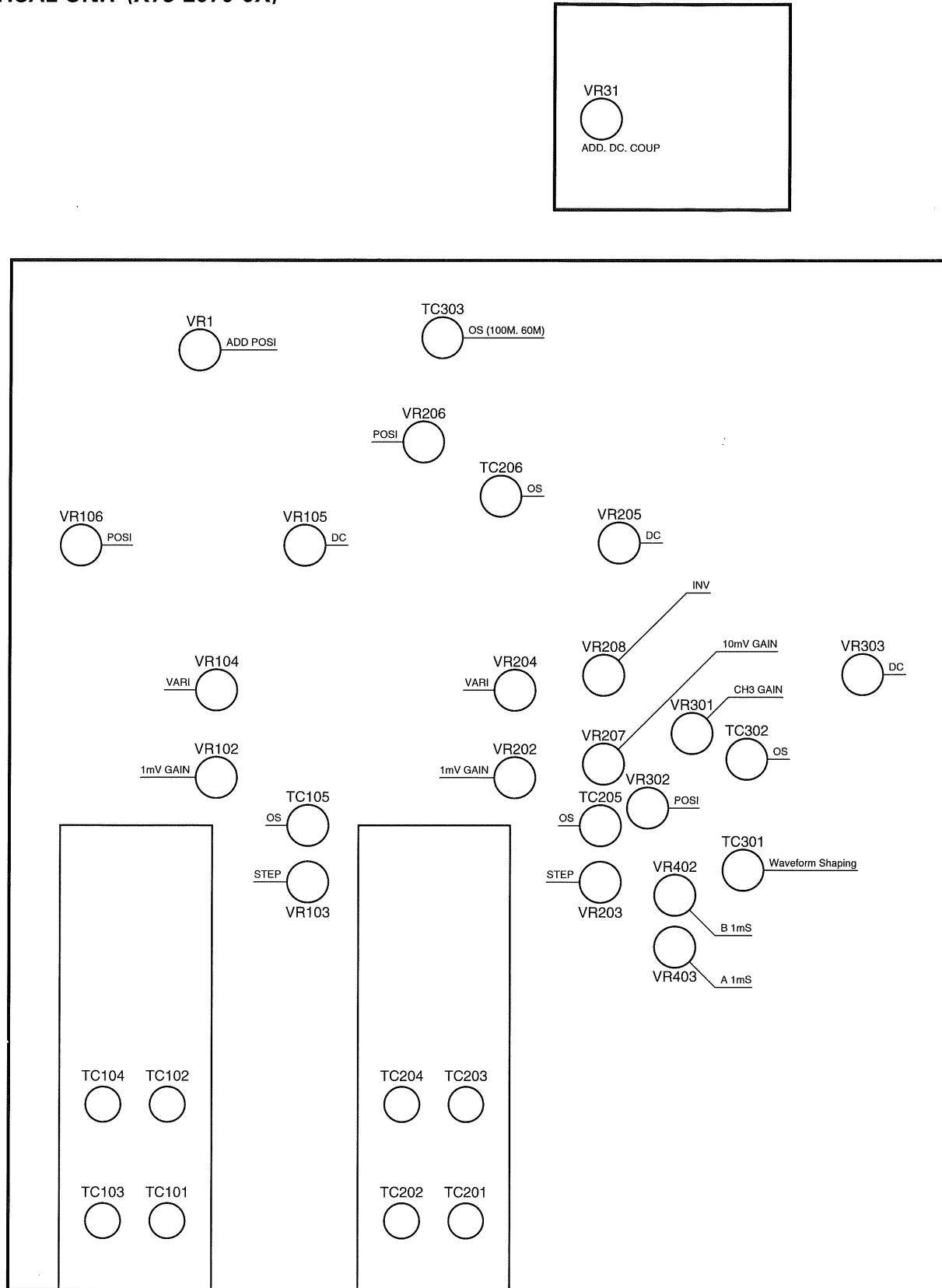
Item	Adjustment	P.C.B.	Procedure
A/B sweep start points	VR102	X74-1580	<p>V.MODE: CH1, AC-DC: DC, SWEEP TIME: A → 1 ms, B → 0.1 ms, H.DISPLAY: ALT DTM: MIN. (Fully counterclockwise)</p> <p>1) Adjust so that the start points of A.SWEEP and B.SWEEP are aligned.</p> 
A, B SWEEP TIME 1 ms <i>* In case the R/O unit is not used, adjust VR304 alternately so that the total number of marker peaks is 12.</i>	VR403 (A, SWEEP) VR402 (B, SWEEP)	X73-2070	<p>SWEEP TIME: A, B → 1 ms, H.DISPLAY: ALT DTM: MIN (fully counterclockwise).</p> <p>1) Input a 1 ms marker signal. 2) Adjust so that the marker peak and scale coincides at every div.</p> 
MAG GAIN	VR302	X74-1580	<p>SWEEP TIME: A → 1 ms, H.DISPLAY: A, AC-DC: DC.</p> <p>1) Input a 1 ms marker signal. 2) Adjust H.POSI so that the marker peak and scale coincides at every div. 3) Switch X10 MAG ON and adjust so that the interval between two peaks is 10 div.</p> 
MAG Center	VR309	X74-1580	<p>SWEEP TIME: A → 1 ms, H.DISPLAY: A, AC-DC: DC.</p> <p>1) Input a 5 ms marker signal. 2) Adjust H.POSI so that the center peak is aligned with the scale center. 3) Switch X10 MAG ON and adjust so that the center marker peak is aligned with the scale center. (Adjust by repeating a few times.) 4) After the adjustment, switch MAG between ON-OFF and ensure that the center marker peak does not move.</p> 

ADJUSTMENT

Item	Adjustment	P.C.B.	Procedure
H. POSITION X-POSITION * In case the R/O unit is not used. Adjust X-GAIN after H.POSI. (Adjustment sequence) 1) H.POSI 2) X-GAIN 3) X-POS1	VR301 (H.POSI) VR307 (X-POS1)	X74-1580	<p>SWEET TIME: A → 1 ms, H.DISPLAY: A</p> <p>1) Set the AC-DC switch to GND. (The marker signal can be left input.) 2) Set H.POSI to the 12:00 position. 3) Adjust VR301 so that the trace start point is aligned with the left end of scale. 4) Set H.DISPLAY to X-Y. 5) Adjust VR307 so that the spot comes on the scale center.</p>
A, B SWEEP TIME 1 μs	TC101 (A, SWEEP) TC102 (B, SWEEP)	X74-1580	<p>SWEET TIME: A, B → 1 μs, H.DISPLAY: ALT, DTM: MIN (fully counterclockwise).</p> <p>1) Input a 1 μs marker signal. 2) Adjust so that the marker peak and scale coincides at every div.</p>
A, SWEEP TIME 0.05 μs	TC301 (A, SWEEP)	X74-1580	<p>SWEET TIME: A, B → 0.05 μs, H.DISPLAY: ALT, DTM: MIN (fully counterclockwise).</p> <p>1) Input a 50 ns marker signal. 2) Adjust so that the marker peak and scale coincides at every div.</p>
D.T. POSI * In case the R/O unit is not used: 1. Turn the MAIN and FINE potentiometers fully counterclockwise. 2. Align the of B sweep with 0.2 div. 3. Turn the MAIN and FINE potentiometers fully clockwise. 4. Align the start of B sweep with 10 div. The potentiometers used in the start and stop adjustments are the same.	VR103 (Start) VR104 (Stop)	X74-1580	<p>H.DISPLAY: ALT, AC-DC: GND, A.SWEEP: 1 ms, B.SWEEP: 10 μs</p> <p>1) Turn the MAIN and FINE potentiometers of D.T.M. control fully counterclockwise. 2) Adjust the R/O display to 0.40 ms with FINE. 3) Adjust VR103 so that the start of B sweep is aligned with 0.4 div., of the scale. 4) Turn the MAIN and FINE potentiometers of D.T.M. control fully clockwise. 5) Adjust the R/O display to 10.00 ms with FINE. 6) Adjust VR104 so that the start of B sweep is aligned with 10.00 div., of the scale.</p> 
CH1 1 MHz square wave	TC1 TC62 TC105	X80-1370 X73-2070	<p>V.MODE: CH1, VOLTS: 10 mV, AC-DC: DC H.DISPLAY: A.</p> <p>1) Input a 1 MHz square wave to CH1 and set its amplitude to 6 div. 2) Adjust the waveform to the best point.</p> <p>* With the 100 MHz band, provide an overshoot of 0.3 to 0.4 div. * With the 60 MHz band, provide an overshoot of 0.1 to 0.2 div. * With the 40 MHz band, provide an overshoot of 0.1 to 0.2 div.</p> <p>Specification: (Above) 0.5, (Below) 0.5, (Above + Below) = Less than 0.7 div.</p>
CH2 1 MHz square wave	TC205 TC206	X73-2070	<p>V.MODE: CH2, VOLTS: 10 mV, AC-DC: DC H.DISPLAY: A.</p> <p>1) Input a 1 MHz square wave to CH2 and set its amplitude to 6 div. 2) Adjust the waveform to the best point.</p> <p>3) Check that the overshoot in each range from 5 mV to 0.1 V is within the specification. (Check both CHs.)</p> <p>* Provide overshoot in the same way as CH1.</p> <p>Specification: Same as CH1.</p>
CH3 1 MHz square wave	TC302 TC303	X73-2070	<p>V.MODE: CH3, H.DISPLAY: A.</p> <p>1) Input a 1 MHz square wave to CH3 and set its amplitude to 6 div. 2) Adjust the waveform to the best point.</p> <p>* Adjust TC303 for only the 100M and 60M bands.</p> <p>Specification: Same as CH1.</p>

ADJUSTMENT

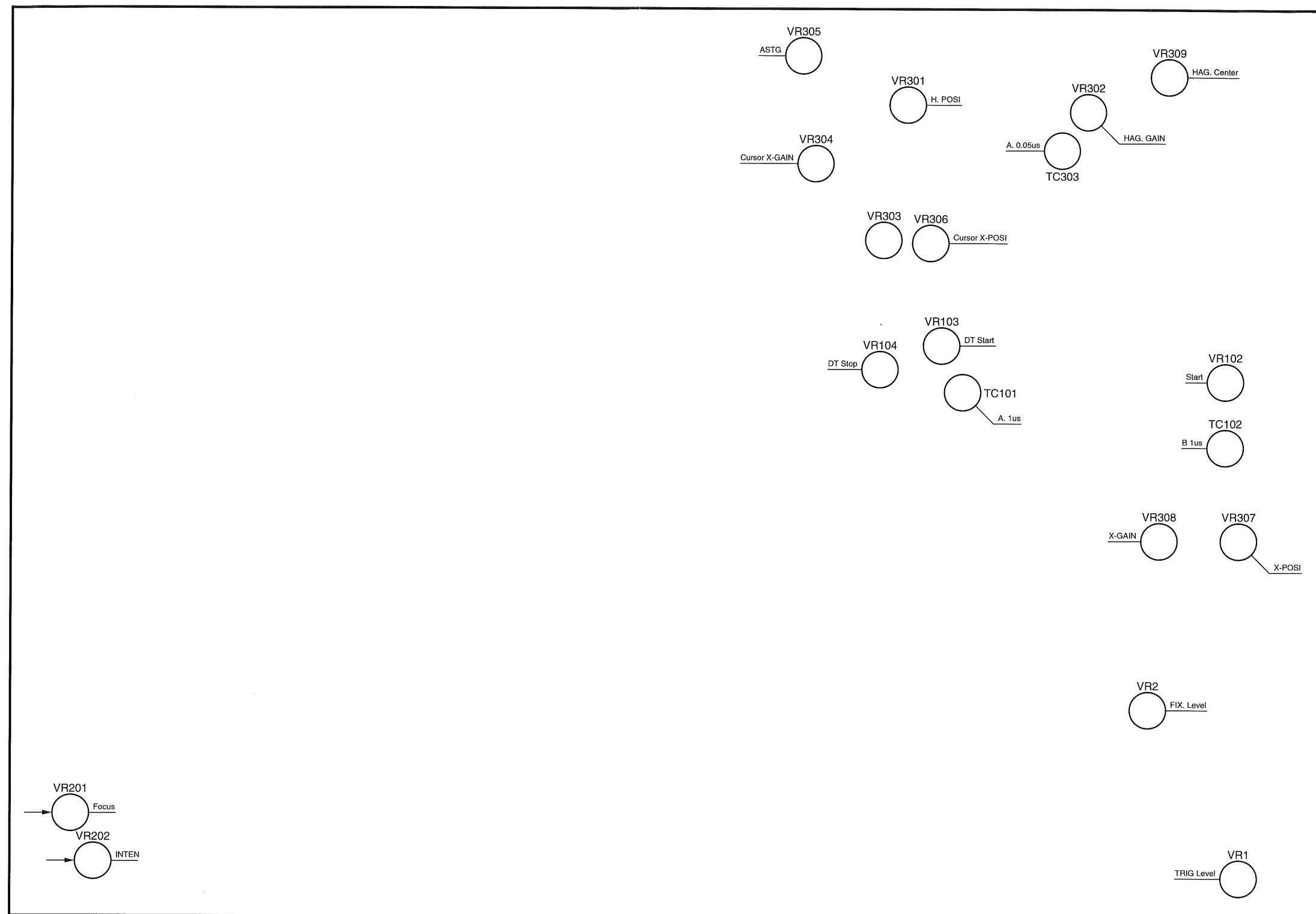
VERTICAL UNIT (X73-2070-0X)



FRONT

ADJUSTMENT

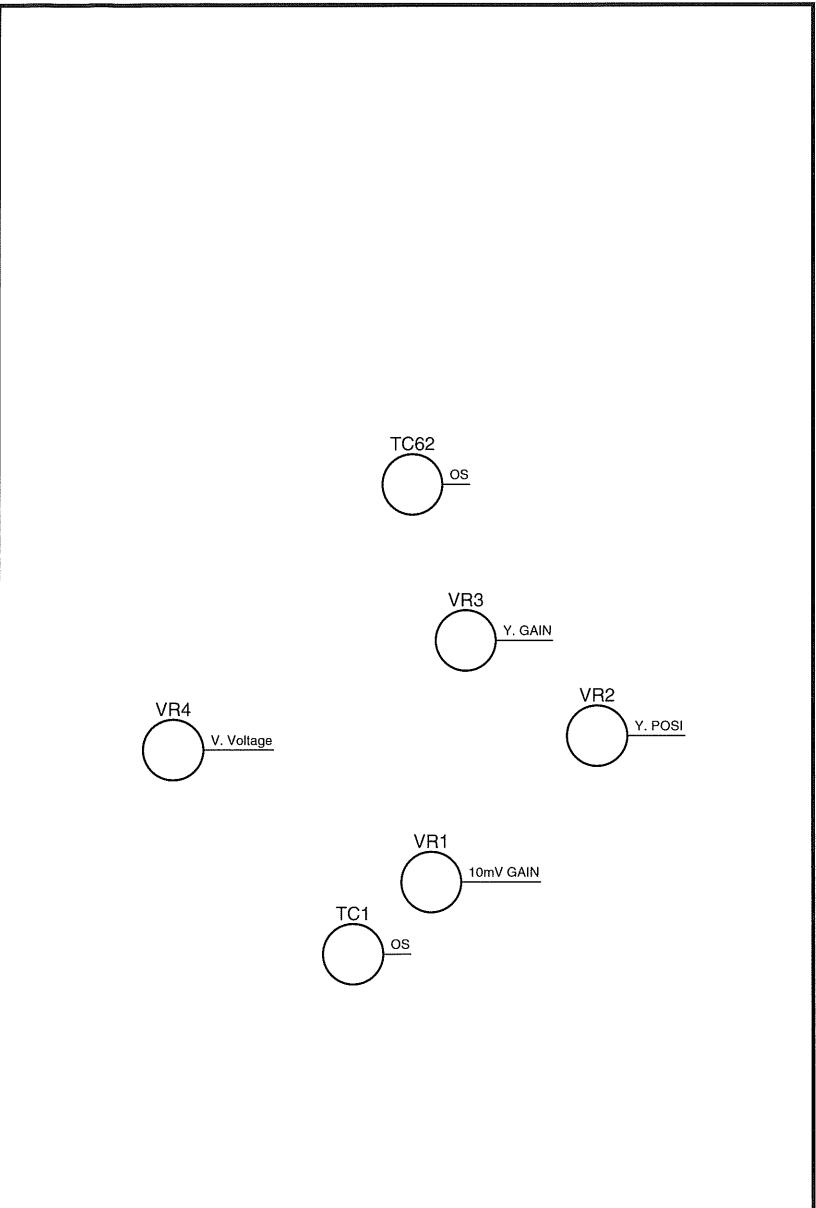
HORIZONTAL UNIT (X74-1580-0X)



FRONT

ADJUSTMENT

FINAL UNIT (X80-1370-0X)



TROUBLESHOOTING

When operating the CS-5200, be sure to use the proper procedure and check all panel settings. A wrong setting cause abnormal operation from even a good product. For example, observation of a waveform with high noise components is accompanied by jitter. In such a case, the jitter can be corrected by setting the trigger coupling to HFREJ. If there is any function which you do not understand, check out by reading the instruction manual. If the operation is abnormal even when the operating procedure is correct, remove the top case and bottom panel.

CAUTION
HIGH VOLTAGE PARTS ARE INSIDE THE EQUIPMENT. THEY ARE EXTREMELY DANGEROUS.

Check all PC boards to ensure that there is no unplugged connector or soldering defect. Some problems may be corrected by applying correct adjustment. For example, if the trace moves up and down when the Vertical Variable control is turned, it can be corrected by adjusting the Variable balance. For the adjustment methods, read the descriptions of adjustment procedures. The description in the troubleshooting section use the same circuit names as those used in the block diagram. Refer to the block diagram when reading the troubleshooting.

First, start with checking the power supply block. Check the voltages at U401 on X74-1580.

pin no.	voltage
1	+140
4	+55
6	+12
8	-12
10	+5
11	-8

OK (Acceptable): Go to next step.
NG (Unacceptable): There is a problem in the power supply block. Check the regulator circuit

a: In case no spot is displayed on the CRT in the X-Y mode.
Check that voltages at pins 1 and 4 of P7 on the X74-1580. OK: Check the voltages at pins 1 and 3 of P5 on the X80-1370.
OK: There is a problem in the BLK amp. (Go to b.) NG: There is a problem in the vertical amp. (Go to i.) NG: There is a problem in the horizontal amp. (Go to c.)

b: Check if the voltage at JW18 on X74-1580 is correct.
OK: There is a problem in the BLK amp.
NG: There is a problem in the HIGH Volts converter.

c: Short-circuit the bases of Q306 and Q307 on X74-1580.

A spot is displayed on the CRT:
There is a problem somewhere before the X amp. (Go to d.) Nothing is displayed on the CRT:
Short the collectors of Q310 and Q311.
A spot is displayed on the CRT:
There is a problem in the MAG amp or R/O SW.
Nothing is displayed on the CRT:
There is a problem in H-FINAL.

d: Short-circuit the collector of Q151 on X74-1580 with the chassis.

A spot is displayed on the CRT:
There is a problem in the Vertical block.
Nothing is displayed on the CRT:
There is a problem in the X amp.

e: In case no trace is displayed on the CRT in the A sweep mode.

Measure the waveform at pin 12 of U102 on X74-1580.
OK: Measure every waveform after U102 to locate the defective position.
NG: Measure the A SWEEP GATE, A SWEEP, A SWEEP STOP and HOLD OFF waveforms to locate the defective position.

f: In case no trace is displayed on the CRT in the B sweep mode.

Measure the waveform at pin 12 of U105 on X74-1580.
OK: Measure every waveform after U105 to locate the defective position.
NG: Measure the B SWEEP GATE, B SWEEP, B SWEEP STOP and DTP circuit waveforms to locate the defective position.

g: Intensity is not modulated in ALT sweep mode.

Check the waveform at the collector of Q116 on X74-1580.
OK: There is a problem in INTEN.
NG: There is a problem in the BLK amp.

h: Triggering cannot be applied.

Check the waveform at the collector of Q151 on the X74-1580.
OK: Check the waveform at the collector of Q158 on X74-1580.
OK: There is a problem in the Schmitt circuit.
NG: There is a problem in the Trig. Coup.
NG: There is a problem in the trigger selector.

TROUBLESHOOTING

i: Trace is not displayed.

Short-circuit the bases of Q7 and Q8 on X80-1370 and check if a trace is displayed on or near the center.

OK: Short-circuit the bases of Q1 and Q2 on X80-1370 and check if a trace is displayed on or near the center.

OK: There is a problem in X73-2070. Check the defective point by shorting each signal line.

NG: There is a problem in the T.SEP amp or R/O SW on X80-1370.

NG: There is a problem in V. FINAL.

j: TV synchronization is impossible.

Check the waveforms of the video amp on X74-1580.

OK: There is a problem in the Schmitt circuit.

NG: There is a problem in the circuitry before the video amp.

Check the defective position following the signal flow.

Be sure to check both TV-H and TV-V.

k: The channels are not displayed properly.

Check the outputs from V-MODE LOGIC on X73-2070.

OK: There is a problem in the circuitry before the POSI amp of one of the channels. Check the waveforms.

NG: Check the V-CLK waveform.

OK: There is a problem in the V-MODE LOGIC.

NG: There is a problem in the H-MODE LOGIC on X74-1580.

l: ADD is not possible.

There is a problem in the delay line driver on X73-2070.

m: CHOP sweep is not possible.

Check the waveform at the collector of Q118 on X74-1580.

OK: There is a problem in the H-MODE LOGIC.

NG: There is a problem in the CHOP generator.

n: Auto free-run is not possible.

Check +5 V at pin 1 of U106 on X74-1580.

OK: There is a problem in the A sweep gate.

NG: There is a problem in the free-run circuit.

o: Characters are not displayed on the CRT.

- Check the CURSOR MODE SW and R/O INTEN.
- Check the blanking signals at P24-1, 3 and 5.

OK: Check the signals at ROX at P24-8 and ROY at P24-7.

If NG, go to the next check item. If OK, check V FINAL or H FINAL.

NG: There is a problem in the blanking circuitry.

(Check U15, U14, U5 and X2 and their surroundings.)

p: Character are not displayed properly on the CRT:

- Check if the CPU (U1) operates normally.
(Check the conditions of X1, 10 MHz, U1, data bus and address bus.)

- Trace ROX from the input to output to find if there is any abnormal position. Also check ROY from the input to output.

(Check U7, U9, U11, U13, U8, U10 and U12 and their surroundings.)

OK: There is a problem in V FINAL or H FINAL.

NG: There is a problem in the ROX or ROY output circuits.

q: Character data is not displayed properly on the CRT.

- Trace the character data input circuit and its surroundings to find if there is any abnormal position.

(Check U3, U5 and U17.)

OK: There is a problem in the Panel unit.

NG: There is a problem in the character data input circuit.

r: The cursor and DTP do not function properly.

- Check if the cursor and DTP voltages are output properly.

	Δ	ΔREF	DTP	CHECK POINT
Δ	0V	4V	4V	P23-8
ΔREF	0V	4V	0V	P23-14
DTP	4V	0V	4V	P23-18

OK: There is a problem in the ROX or ROY output circuit.

NG: There is a problem in the Panel unit.

s: Abnormality occurs with other function than above.

Trace the signal path of the defective function referring to the block diagram to locate the defective position.

When all of the troubles have been repaired above, start readjustments following the adjustment procedures.

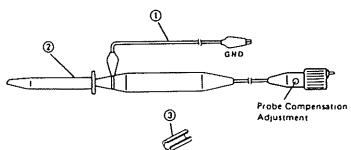
PARTS LIST

CS-5260

Y70-1960-02

REF. NO	PARTS NO	NAME & DESCRIPTION
A 63-0166-03	PANEL ASS'Y	
B 41-0710-14	CAUTION LABEL, HIGH VOLTAGE	
B 42-3820-05	LABEL; CARTON BOX	
B 63-0218-20	INSTRUCTION MANUAL; JAPANESE	
B 63-0219-30	INSTRUCTION MANUAL; ENGLISH	
E 30-1929-05	BS POWER CORD	
E 30-1950-05	JIS POWER CORD	
E 30-1951-05	UL/CSA POWER CORD	
E 30-1952-05	CEE POWER CORD	
F 51-0031-05	FUSE(6X30MM) 630MA/250V	
F 51-0033-05	FUSE(6X30MM) 1A/250V	
H 10-2883-02	FORMED STYRENE PAD, FRONT	
H 10-2884-02	FORMED STYRENE PAD, REAR	
H 20-1727-04	VINYL COVER	
H 53-0153-04	CARTON BOX	
W 01-0406-14	ADJUTMENT ROD	
D 1	LN322GP	LED; GREEN
D 103	LN322GP	LED; GREEN
1	A 01-4017-02	CASE, TOP
2	A 01-4018-02	CASE, BOTTOM
3	A 13-2205-02	FRAME, LEFT
4	A 13-2206-02	FRAME, RIGHT
5	A 13-2207-12	FRAME, CENTER
6	A 21-2423-03	DECORATIVE PANEL, LARGE
7	A 21-2425-04	DECORATIVE PANEL, SMALL
8	A 22-1307-02	SUB PANEL
9	A 63-0110-01	HOLD PANEL, LARGE
10	A 63-0111-02	HOLD PANEL, SMALL
11	A 83-0067-02	REAR PANEL
12	B 11-0518-04	FILTER
13	B 41-2069-04	CAUTION LABEL
14	B 73-0087-04	NAME PLATE; MODEL NO.
15	D 21-0935-04	EXTENSION SHAFT
16	E 18-0365-15	AC SELECTOR
16A	E 18-0366-15	AC SELECTOR WITH 5X20MM FUSE
17	E 21-0686-04	TERMINAL, CAL
18	E 23-0552-04	EARTH TERMINAL
20	F 11-1206-13	SHIELD CASE, CRT
21	F 11-1269-03	SHIELD CASE
22	F 15-0733-04	FELT (CRT SHIELD)
23	F 20-3013-03	INSULATOR, LARGE
24	F 20-3014-04	INSULATOR, SMALL
25	F 29-0528-05	INSULATOR TUBE
26	J 02-0089-05	RUBBER FOOT
27	J 02-0508-04	TIKT STAND
28	J 18-1622-05	CORD CLAMP
29	J 18-1653-23	HOLDER FOR CRT
30	J 21-2573-04	HOLDER FOR LEG
31	J 21-4853-04	BRACKET, FRONT
32	J 21-4854-04	BRACKET, REAR
33	J 21-4855-04	BRACKET
34	J 42-0558-05	BUSHING
35	J 59-0403-05	NYLON RIVET (ILLUMI)
36	K 01-0541-05	HANDLE
37	K 21-0919-14	KNOB; B SWP
38	K 21-0920-04	KNOB; VARI
39	K 21-0940-04	KNOB; A SWP
40	K 23-0818-04	KNOB; V/DIV
41	K 24-3005-04	PUSH SW; POWER
42	K 27-0590-04	PUSH BUTTON; GRAYWHITE
43	K 27-3618-14	LEVER
44	K 29-0877-04	KNOB; VR
45	L 07-1509-05	POWER TRANSFORMER
46	L 39-0531-05	ROTATION COIL
47	S 40-2532-05	POWER SW
48	W 01-0503-04	REAR RUBBER FOOT/CORD WRAP
49	X 66-1400-00	PANEL UNIT
50	X 73-2070-02	VERTICAL UNIT
51	X 74-1580-02	HORIZONTAL UNIT
52	X 77-1870-00	R/O UNIT
53	X 80-1370-02	FINAL AMP UNIT
54	X 81-3270-00	DELAY LINE UNIT
55	150JKM31	CRT

MODEL PC-31 (LOW CAPACITY PROBE)



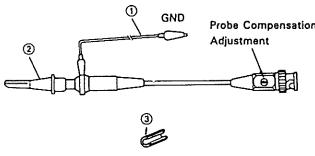
ITEM	DESCRIPTION	PARTS NO.
①	Ground Wire Assembly	E30-1883-08
②	Retractable Hook Tip	E29-0540-08
③	Marker (Orange)	B42-1950-08

CS-5265

Y70-1970-02

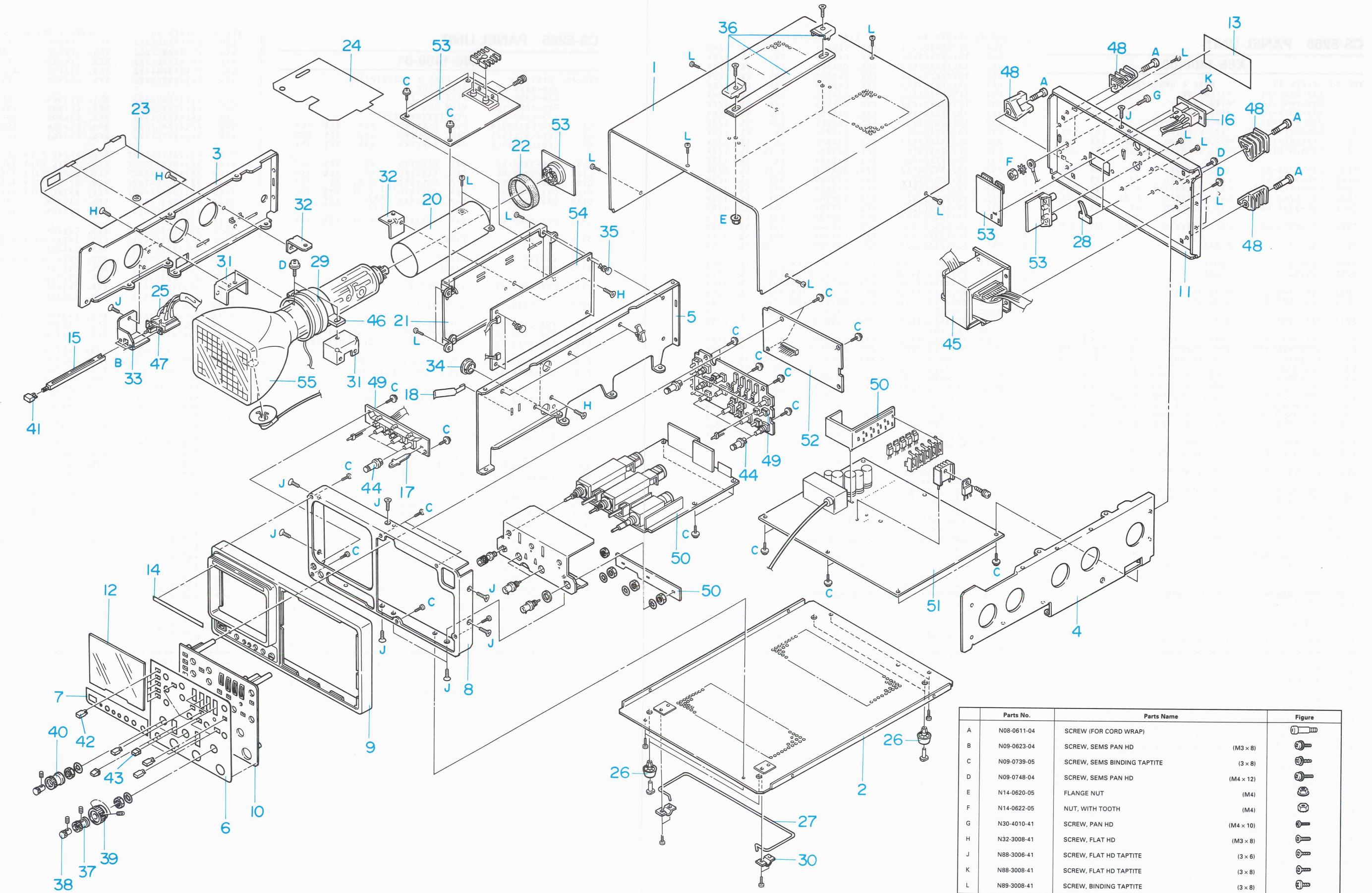
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B 41-0710-14	CAUTION LABEL, HIGH VOLTAGE	
B 42-3820-05	LABEL; CARTON BOX	
B 63-0218-20	INSTRUCTION MANUAL; JAPANESE	
B 63-0219-30	INSTRUCTION MANUAL; ENGLISH	
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E 30-1950-05	JIS POWER CORD	
E 30-1951-05	UL/CSA POWER CORD	
E 30-1952-05	CEE POWER CORD	
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F 51-0033-05	FUSE(6X30MM) 1A/250V	
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H 10-2884-02	FORMED STYRENE PAD, REAR	
H 20-1727-04	VINYL COVER	
H 53-0155-04	CARTON BOX	
W 01-0406-14	ADJUTMENT ROD	
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D 103	LN322GP	LED; GREEN
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2	A 01-4018-02	CASE, BOTTOM
3	A 13-2205-02	FRAME, LEFT
4	A 13-2206-02	FRAME, RIGHT
5	A 13-2207-12	FRAME, CENTER
6	A 21-2424-03	DECORATIVE PANEL, LARGE
7	A 21-2426-04	DECORATIVE PANEL, SMALL
8	A 22-1307-02	SUB PANEL
9	A 63-0110-01	HOLD PANEL, LARGE
10	A 63-0111-02	HOLD PANEL, SMALL
11	A 83-0067-02	REAR PANEL
12	B 11-0518-04	FILTER
13	B 41-2069-04	CAUTION LABEL
14	B 73-0089-04	NAME PLATE; MODEL NO.
15	D 21-0935-04	EXTENSION SHAFT
16	E 18-0365-15	AC SELECTOR
16A	E 18-0366-15	AC SELECTOR WITH 5X20MM FUSE
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22	F 15-0733-04	FELT (CRT SHIELD)
23	F 20-3013-03	INSULATOR, LARGE
24	F 20-3014-04	INSULATOR, SMALL
25	F 29-0528-05	INSULATOR TUBE
26	J 02-0089-05	RUBBER FOOT
27	J 02-0509-04	TIKT STAND
28	J 19-1622-05	CORD CLAMP
29	J 19-1653-23	HOLDER FOR CRT
30	J 21-2573-04	HOLDER FOR LEG
31	J 21-4853-04	BRACKET, FRONT
32	J 21-4854-04	BRACKET, REAR
33	J 21-4855-04	BRACKET
34	J 42-0558-05	BUSHING
35	J 59-0403-05	NYLON RIVET (ILLUMI)
36	K 01-0541-05	HANDLE
37	K 21-0919-14	KNOB; B SWP
38	K 21-0920-04	KNOB; VARI
39	K 21-0940-04	KNOB; A SWP
40	K 23-0818-04	KNOB; V/DIV
41	K 24-3005-04	PUSH SW; POWER
42	K 27-0590-04	PUSH BUTTON; GRAYWHITE
43	K 27-3618-14	LEVER
44	K 29-0877-04	KNOB; VR
45	L 07-1509-05	POWER TRANSFORMER
46	L 39-0531-05	ROTATION COIL
47	S 40-2532-05	POWER SW
48	W 01-0503-04	REAR RUBBER FOOT/CORD WRAP
49	X 66-1400-01	PANEL UNIT
50	X 73-2070-03	VERTICAL UNIT
51	X 74-1580-03	HORIZONTAL UNIT
53	X 80-1370-03	FINAL AMP UNIT
54	X 81-3270-00	DELAY LINE UNIT
55	150JKM31	CRT

MODEL PC-39 (LOW CAPACITY PROBE)



ITEM	DESCRIPTION	PARTS NO.
①	Ground Wire Assembly	E30-1883-08
②	Retractable Hook Tip	E29-0540-08
③	Marker (Orange)	B42-1950-08

DISASSEMBLY



PARTS LIST

CS-5260 PANEL UNIT

X66-1400-00

REF. NO	PARTS NO	NAME & DESCRIPTION
A33-0505-04	REFLECTOR	
E38-0994-15	WIRE ASS'Y	
E38-0995-15	WIRE ASS'Y	
J73-0287-02	PCB (UNMOUNTED)	
C1	CE04LW1A221M	CAP. ELECTRO 220 20% 10V
C2	CE04LW1E101M	CAP. ELECTRO 100 20% 25V
C3	CE04LW1E101M	CAP. ELECTRO 100 20% 25V
C101	C90-3228-05	CAP. ELECTRO 47 20% 16V
C102	C90-3228-05	CAP. ELECTRO 47 20% 16V
C103	CF92FV1H103J	CAP. POLYESTER 0.01 5% 50V
C104	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C105	C90-3228-05	CAP. ELECTRO 47 20% 16V
C801	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
D2	ISS132	DIODE
D101	ISS132	DIODE
D102	ISS132	DIODE
JW11	E38-0992-25	WIRE ASS'Y
JW12	E38-0993-25	WIRE ASS'Y
JW17	E38-0996-15	WIRE ASS'Y
L1	L40-3391-17	FERRI INDUCTOR 3.3UH 10%
L2	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
L3	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
L4	L40-3391-17	FERRI INDUCTOR 3.3UH 10%
L5	L40-3391-17	FERRI INDUCTOR 3.3UH 10%
L6	L40-3391-17	FERRI INDUCTOR 3.3UH 10%
L7	L40-3391-17	FERRI INDUCTOR 3.3UH 10%
L8	L40-3391-17	FERRI INDUCTOR 3.3UH 10%
L9	L40-3391-17	FERRI INDUCTOR 3.3UH 10%
L10	L40-3391-17	FERRI INDUCTOR 3.3UH 10%
P15	E40-5067-05	PIN CONNECTOR 10P
P16	E40-5069-05	PIN CONNECTOR 12P
P23	E40-7411-05	PIN CONNECTOR 26P
P26	E40-0218-05	PIN CONNECTOR 2P
P27	E40-0218-05	PIN CONNECTOR 2P
PL101	B30-3016-05	LAMP
PL102	B30-3016-05	LAMP
PL103	B30-3016-05	LAMP
Q1	2SC1740S(R,S)	TR. SI, NPN
Q2	2SC1740S(R,S)	TR. SI, NPN
Q3	2SA933S(R,S)	TR. SI, PNP
Q101	2SC1740S(R,S)	TR. SI, NPN
Q102	2SC1740S(R,S)	TR. SI, NPN
Q103	2SC1318A(R)	TR. SI, NPN
Q104	2SA720A(R)	TR. SI, PNP
R1	R90-1182-05	RES. NETWORK
R2	R90-1182-05	RES. NETWORK
R3	R90-1182-05	RES. NETWORK
R4	R90-1182-05	RES. NETWORK
R5	RN14BK2C1002D	RES. METAL FILM 10K 0.5% 1/6W
R6	RN14BK2C2002D	RES. METAL FILM 20K 0.5% 1/6W
R7	R92-1061-05	JUMPING RES. ZERO OHM(5MM)
R8	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R9	RN14BK2C2203F	RES. METAL FILM 220K 1% 1/6W
R10	RN14BK2C2202F	RES. METAL FILM 22K 1% 1/6W
R11	RN14BK2C2002D	RES. METAL FILM 20K 0.5% 1/6W
R12	RN14BK2C2002D	RES. METAL FILM 20K 0.5% 1/6W
R13	RD14BB2C361J	RES. CARBON 360 5% 1/6W
R14	RN14BK2C1962D	RES. METAL FILM 19.6K 0.5% 1/6W
R15	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R16	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R17	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R18	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R19	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R20	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R21	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R22	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R23	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R24	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R25	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R26	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R27	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R28	RD14BB2C101J	RES. CARBON 100 5% 1/6W

PARTS LIST

CS-5265 PANEL UNIT

X66-1400-01

REF. NO	PARTS NO	NAME & DESCRIPTION
R33	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R34	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R35	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R36	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R37	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R38	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R39	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R40	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R41	RD14BB2C101J	RES. CARBON 1K 5% 1/6W
R42	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R43	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
R44	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R45	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R46	RD14BB2C153J	RES. CARBON 15K 5% 1/6W
R47	RD14BB2C153J	RES. CARBON 15K 5% 1/6W
R48	RD14BB2C153J	RES. CARBON 15K 5% 1/6W
R49	RD14BB2C153J	RES. CARBON 15K 5% 1/6W
R50	RD14BB2C122J	RES. CARBON 1.2K 5% 1/6W
R51	RN14BK2C5102F	RES. METAL FILM 51K 1% 1/6W
R52	RN14BK2C3902F	RES. METAL FILM 39K 1% 1/6W
R53	RN14BK2C3902F	RES. METAL FILM 39K 1% 1/6W
R54	RN14BK2C4702F	RES. METAL FILM 47K 1% 1/6W
R55	RN14BK2C4702F	RES. METAL FILM 47K 1% 1/6W
R56	RN14BK2C183J	RES. CARBON 18K 5% 1/6W
R57	RN14BK2C102J	RES. CARBON 1K 5% 1/6W
R58	RN14BK2C6800F	RES. METAL FILM 680 1% 1/6W
R59	RN14BK2C6800F	RES. METAL FILM 680 1% 1/6W
R60	RN14BK2C102J	RES. CARBON 1K 5% 1/6W
R61	RN14BK2C102J	RES. CARBON 1K 5% 1/6W
R62	RN14BK2C220J	RES. CARBON 22 5% 1/6W
R63	RN14BK2C101J	RES. CARBON 100 5% 1/6W
R64	RN14BK2C182J	RES. CARBON 1.8K 5% 1/6W
R65	RN14BK2C123J	RES. CARBON 12K 5% 1/6W
R66	RN14BK2C163J	RES. CARBON 16K 5% 1/6W
R67	RN14BK2C123J	RES. CARBON 12K 5% 1/6W
R68	RN14BK2C123J	RES. CARBON 12K 5% 1/6W
R69	RN14BK2C473J	RES. CARBON 47K 5% 1/6W
S1	S40-1532-05	PUSH SWITCH
S2	S40-1532-05	PUSH SWITCH
S3	S40-1532-05	PUSH SWITCH
S4	S40-1532-05	PUSH SWITCH
S5	S40-1532-05	PUSH SWITCH
S6	S40-1532-05	PUSH SWITCH
S7	S40-1532-05	PUSH SWITCH
S8	S40-1532-05	PUSH SWITCH
S9	S40-1532-05	PUSH SWITCH
S10	S40-1532-05	PUSH SWITCH
S11	S40-1532-05	PUSH SWITCH
S12	S40-1532-05	PUSH SWITCH
S13	S40-1532-05	PUSH SWITCH
S14	S40-1532-05	PUSH SWITCH
U1	NJM4558L	IC, DUAL OP AMP
U101	NJM4558L	IC, DUAL OP AMP
VR1	R05-3521-05	V.R. 20KB
VR2	R05-3521-05	V.R. 20KB
VR3	R05-3521-05	V.R. 20KB
VR4	R05-3521-05	V.R. 20KB
VR5	R05-3521-05	V.R. 20KB
VR6	R05-3527-05	V.R. 20KB
VR7	R05-3521-05	V.R. 20KB
VR8	R05-3527-05	V.R. 20KB
VR9	R05-3527-05	V.R. 20KB
VR101	R05-3521-05	V.R. 20KB
VR102	R05-3521-05	V.R. 20KB
VR103	NO USE	
VR104	R12-5540-05	RES. SEMI FIXED 100KB
VR105	R05-3521-05	V.R. 20KB
R1	R90-1182-05	RES. NETWORK
R2	R90-1182-05	RES. NETWORK
R3	R90-1182-05	RES. NETWORK
R4	R90-1182-05	RES. NETWORK
R5	RN14BK2C1002D	RES. METAL FILM 10K 0.5% 1/6W
R6	RN14BK2C2002D	RES. METAL FILM 20K 0.5% 1/6W
R7	R92-1061-05	JUMPING RES. ZERO OHM(5MM)
R8	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R9	RD14BB2C2203F	RES. METAL FILM 220K 1% 1/6W
R10	RD14BK2C2202F	RES. METAL FILM 22K 1% 1/6W
R11	RD14BK2C2002D	RES. METAL FILM 20K 0.5% 1/6W
R12	RD14BK2C2002D	RES. METAL FILM 20K 0.5% 1/6W
R13	RD14BB2C361J	RES. CARBON 360 5% 1/6W
R14	RD14BK2C1962D	RES. METAL FILM 19.6K 0.5% 1/6W
R15	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R16	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R17	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R18	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R19	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R20	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R21	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R22	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R23	RD14BB2C101J	RES. CARBON

PARTS LIST

CS-5260 VERTICAL UNIT

X73-2070-02

REF. NO PARTS NO NAME & DESCRIPTION

A22-1308-03	SUB PANEL
E21-0667-05	METAL TERMINAL
E23-0149-05	GND TERMINAL
F01-2318-04	HEAT SINK
F10-1590-14	SHIELD PLATE, ATT
F10-1668-04	SHIELD PLATE
J30-0623-04	SPACER
J73-0283-22	PCB (UNMOUNTED)
C2 CC45FCH1H101J	CAP. CERAMIC 100P 5% 50V
C7 C81-0768-05	CAP. CERAMIC 0.01 20% 16V
C30 C91-0747-05	CAP. CERAMIC 150P 10% 50V
C31 C91-0747-05	CAP. CERAMIC 150P 10% 50V
C32 C91-0748-05	CAP. CERAMIC 180P 10% 50V
C33 C91-2595-05	CAP. CERAMIC 68P 5% 50V
C34 CE04LW0J331M	CAP. ELECTRO 330 20% 6.3V
C35 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C36 C91-0745-05	CAP. CERAMIC 100P 10% 50V
C37 C91-0745-05	CAP. CERAMIC 100P 10% 50V
C38 C91-0745-05	CAP. CERAMIC 100P 10% 50V
C39 CE04CW1C470M	CAP. ELECTRO 47 20% 16V
C40 CE04LW1A470M	CAP. ELECTRO 47 20% 10V
C51 CE04LW1C101M	CAP. ELECTRO 100 20% 16V
C52 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C53 C91-0769-05*	CAP. CERAMIC 0.01 20% 16V
C54 CE04LW1C330M	CAP. ELECTRO 33 20% 16V
C57 CE04HW1C220M	CAP. ELECTRO 22 20% 16V
C58 CC45FCH1H680J	CAP. CERAMIC 68P 5% 50V
C59 CE04LW1E470M	CAP. ELECTRO 47 20% 25V
C102 C91-2580-05	CAP. POLYESTER 0.047 10% 400V
C103 C91-2579-05	CAP. POLYESTER 0.01 10% 400V
C104 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C105 CE04LW1A101M	CAP. ELECTRO 100 20% 10V
C106 NO USE	
C107 CC45FCH1H070D	CAP. CERAMIC 7P 0.5P 50V
C110 CC45FCH1H680J	CAP. CERAMIC 68P 5% 50V
C111 NO USE	
C112 CC45FCH1H100D	CAP. CERAMIC 10P 0.5P 50V
C113 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C114 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C117 CE04CW1C470M	CAP. ELECTRO 47 20% 16V
C118 CE04LW1C101M	CAP. ELECTRO 100 20% 16V
C122 CC45FCH1H560J	CAP. CERAMIC 56P 5% 50V
C125 CF92FV1H332J	CAP. POLYESTER 3300P 5% 50V
C202 C91-2580-05	CAP. POLYESTER 0.047 10% 400V
C203 C91-2579-05	CAP. POLYESTER 0.01 10% 400V
C204 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C205 CE04LW1A101M	CAP. ELECTRO 100 20% 10V
C206 NO USE	
C207 CC45FCH1H070D	CAP. CERAMIC 7P 0.5P 50V
C210 CC45FCH1H680J	CAP. CERAMIC 68P 5% 50V
C211 NO USE	
C212 CC45FCH1H100D	CAP. CERAMIC 10P 0.5P 50V
C213 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C214 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C217 CE04CW1C470M	CAP. ELECTRO 47 20% 16V
C218 CE04LW1C101M	CAP. ELECTRO 100 20% 16V
C221 CE04LW1E470M	CAP. ELECTRO 47 20% 25V
C222 CC45FCH1H560J	CAP. CERAMIC 56P 5% 50V
C225 CF92FV1H332J	CAP. POLYESTER 3300P 5% 50V
C301 CC45FCH1H070D	CAP. CERAMIC 7P 0.5P 50V
C302 CC45FCH1H150J	CAP. CERAMIC 15P 5% 50V
C303 CC45FCH1H150J	CAP. CERAMIC 15P 5% 50V
C304 NO USE	
C305 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C306 CC45FCH1H220J	CAP. CERAMIC 22P 5% 50V
C307 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C313 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C314 C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C315 NO USE	
C316 CE04EW1E470M	CAP. ELECTRO 47 20% 25V

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION
C318 CE04LW1C470M	CAP. ELECTRO 47 20% 16V	
C401 C91-0769-05	CAP. CERAMIC 0.01 20% 16V	
C402 C91-0769-05	CAP. CERAMIC 0.01 20% 16V	
C403 CE04LW1C470M	CAP. ELECTRO 47 20% 16V	
C404 C91-0769-05	CAP. CERAMIC 0.01 20% 16V	
C405 C91-0769-05	CAP. CERAMIC 0.01 20% 16V	
C406 NO USE		
C407 C91-0769-05	CAP. CERAMIC 0.01 20% 16V	
C410 C91-0769-05	CAP. CERAMIC 0.01 20% 16V	
C411 NO USE		
C412 C91-0769-05	CAP. CERAMIC 0.01 20% 16V	
C418 CE04EW1A101M	CAP. ELECTRO 100 20% 10V	
C451 C91-0769-05	CAP. CERAMIC 0.01 20% 16V	
C452 C91-0769-05	CAP. CERAMIC 0.01 20% 16V	
C901 CK45B1H102K	CAP. CERAMIC 1000P 10% 50V	
D2 ISS132	DIODE	
D31 ISS132	DIODE	
D32 ISS132	DIODE	
D35 ISS132	DIODE	
D36 ISS132	DIODE	
D37 ISS132	DIODE	
D101 ISS132	DIODE	
D102 ISS132	DIODE	
D103 ISS132	DIODE	
D104 ISS132	DIODE	
D105 ISS132	DIODE	
D106 ISS132	DIODE	
D107 ISS132	DIODE	
D108 ISS132	DIODE	
D201 ISS132	DIODE	
D202 ISS132	DIODE	
D203 ISS132	DIODE	
D204 ISS132	DIODE	
D205 ISS132	DIODE	
D206 ISS132	DIODE	
D207 ISS132	DIODE	
D208 ISS132	DIODE	
JW6 E38-0985-05	WIRE ASS'Y; V TO H TRG	
JW10 E38-0986-05	WIRE ASS'Y; V TO H SWP	
JW301 E38-0987-15	WIRE ASS'Y; CH3 INPUT	
JW401 E38-0984-15	WIRE ASS'Y; PROBE DETECTION	
JW501 E38-0983-25	WIRE ASS'Y; SUB PANEL TO GND	
L1 L79-0553-05	NOISE FILTER	
L40 L40-2201-17	FERRI INDUCTOR 22UH 10%	
L51 L40-4791-17	FERRI INDUCTOR 4.7UH 10%	
L52 L40-4791-17	FERRI INDUCTOR 4.7UH 10%	
L301 L40-4781-17	FERRI INDUCTOR 0.47UH 10%	
P1 E04-0260-05	BNC RECEPTACLE (READOUT)	
P2 E04-0260-05	BNC RECEPTACLE (READOUT)	
P3 E04-0259-05	BNC RECEPTACLE	
P4 E40-7515-05	PIN CONNECTOR 3P	
P9 E40-7518-05	PIN CONNECTOR 6P	
P10 NO USE		
P11 E40-3242-05	PIN CONNECTOR 7P	
P12 E40-5066-05	PIN CONNECTOR 9P	
P13 E40-7515-05	PIN CONNECTOR 3P	
P201 E40-7432-05	PIN CONNECTOR 13P	
P202 E40-7423-05	PIN CONNECTOR 4P	

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION
P203 E40-7430-05	PIN CONNECTOR 11P	
P204 E40-7426-05	PIN CONNECTOR 7P	
P205 E40-7422-05	PIN CONNECTOR 3P	
P206 E40-7426-05	PIN CONNECTOR 7P	
P207 E40-7432-05	PIN CONNECTOR 13P	
P208 E40-7432-05	PIN CONNECTOR 13P	
Q1 2SC1740S(R,S)	TR. SI, NPN	
Q2 2SC3779(D)	TR. SI, NPN	
Q3 2SC3779(D)	TR. SI, NPN	
Q51 2SC1923(0)	TR. SI, NPN	
Q101 2SC1923(0)	TR. SI, NPN	
Q102 2SK404(E)	FET, N-CHANNEL	
Q103 2SC1907	TR. SI, NPN	
Q106 2SC3778(D)	TR. SI, NPN	
Q107 2SC3779(D)	TR. SI, NPN	
Q108 2SA1459(K)	TR. SI, PNP	
Q109 2SA1459(K)	TR. SI, PNP	
Q110 2SA1459(K)	TR. SI, PNP	
Q111 2SA1458(K)	TR. SI, PNP	
Q112 2SA1161	TR. SI, PNP	
Q113 2SA1161	TR. SI, PNP	
Q114 2SA1459(K)	TR. SI, PNP	
Q201 2SC1923(0)	TR. SI, NPN	
Q202 2SK404(E)	FET, N-CHANNEL	
Q203 2SC1807	TR. SI, NPN	
Q206 2SC3779(D)	TR. SI, NPN	
Q207 2SC3779(D)	TR. SI, NPN	
Q208 2SA1459(K)	TR. SI, PNP	
Q209 2SA1459(K)	TR. SI, PNP	
Q210 2SA1459(K)	TR. SI, PNP	
Q211 2SA1459(K)	TR. SI, PNP	
Q212 2SA1161	TR. SI, PNP	
Q213 2SA1161	TR. SI, PNP	
Q214 2SA1459(K)	TR. SI, PNP	
Q215 2SC1740S(R,S)	TR. SI, NPN	
Q302 2SC1923(0)	TR. SI, NPN	
Q303 2SK404(E)	FET, N-CHANNEL	
Q304 2SC1807	TR. SI, NPN	
Q305 2SA1459(K)	TR. SI, PNP	
Q306 2SA1459(K)	TR. SI, PNP	
Q307 2SC1907	TR. SI, NPN	
Q308 2SC1807	TR. SI, NPN	
Q309 2SC1807	TR. SI, NPN	
Q310 2SA1459(K)	TR. SI, PNP	
Q311 2SA1459(K)	TR. SI, PNP	
Q312 2SC1907	TR. SI, NPN	
Q313 2SA1459(K)	TR. SI, PNP	
Q314 2SA1459(K)	TR. SI, PNP	
R1 RN14BK2C2002F	RES. METAL FILM 20K 1% 1/6W	
R2 RN14BK2C2001F	RES. METAL FILM 2K 1% 1/6W	
R3 RN14BK2C2001F	RES. METAL FILM 2K 1% 1/6W	
R6 RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W	
R7 RD14BB2C473J	RES. CARBON 47K 5% 1/6W	
R8 RN14BK2C3900F	RES. METAL FILM 390 1% 1/6W	
R9 RN14BK2C3900F	RES. METAL FILM 390 1% 1/6W	
R10 RN14BK2C7500F	RES. METAL FILM 750 1% 1/6W	
R11 RN14BK2C7500F	RES. METAL FILM 750 1% 1/6W	
R12 R92-		

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION	REF. NO	PARTS NO	NAME & DESCRIPTION
R201	RD14BB2E220J	RES. CARBON 22 5% 1/6W	R313	RD14BB2C621J	RES. CARBON 620 5% 1/6W
R202	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R314	RD14BB2C131J	RES. CARBON 130 5% 1/6W
R203	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R315	NO USE	
R204	RD14BB2C105J	RES. CARBON 1M 5% 1/6W	R316	RN14BK2C7500F	RES. METAL FILM 750 1% 1/6W
R207	RD14BB2C684J	RES. CARBON 680K 5% 1/6W	R317	RD14BB2C112J	RES. CARBON 1.1K 5% 1/6W
R208	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R318	RD14BB2C112J	RES. CARBON 1.1K 5% 1/6W
R209	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W	R319	RN14BK2C4300F	RES. METAL FILM 430 1% 1/6W
R210	NO USE		R320	RN14BK2C3301F	RES. METAL FILM 3.3K 1% 1/6W
R211	RD14BB2C160J	RES. CARBON 16 5% 1/6W	R321	RN14BK2C6801F	RES. METAL FILM 6.8K 1% 1/6W
R212	RD14BK2C2200F	RES. METAL FILM 220 1% 1/6W	R322	RN14BK2C8200F	RES. METAL FILM 820 1% 1/6W
R213	NO USE		R323	RN14BK2C8200F	RES. METAL FILM 820 1% 1/6W
R214	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R324	RD14BB2C203J	RES. CARBON 20K 5% 1/6W
R215	RN14BK2C1301F	RES. METAL FILM 1.3K 1% 1/6W	R325	RD14BB2C333J	RES. CARBON 33K 5% 1/6W
R216	RN14BK2C1301F	RES. METAL FILM 1.3K 1% 1/6W	R326	RD14BB2C473J	RES. CARBON 47K 5% 1/6W
R217	RN14BK2C3301F	RES. METAL FILM 3.3K 1% 1/6W	R327	RD14BB2C362J	RES. CARBON 3.6K 5% 1/6W
R218	RN14BK2C2401F	RES. METAL FILM 2.4K 1% 1/6W	R328	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W
R219	RN14BK2C5100F	RES. METAL FILM 510 1% 1/6W	R329	RD14BK2C362J	RES. CARBON 3.6K 5% 1/6W
R220	RD14BB2C301J	RES. CARBON 300 5% 1/6W	R330	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W
R221	RN14BK2C1004F	RES. METAL FILM 1M 1% 1/6W	R331	NO USE	
R222	RD14BB2C103J	RES. CARBON 10K 5% 1/6W	R332	RD14BB2C113J	RES. CARBON 11K 5% 1/6W
R223	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W	R333	RD14BB2C302J	RES. CARBON 3K 5% 1/6W
R224	RD14BB2C103J	RES. CARBON 10K 5% 1/6W	R334	RD14BB2C122J	RES. CARBON 1.2K 5% 1/6W
R225	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W	R335	RD14BB2C821J	RES. CARBON 820 5% 1/6W
R226	RD14BB2C273J	RES. CARBON 27K 5% 1/6W	R336	RD14BB2C471J	RES. CARBON 470 5% 1/6W
R227	RD14BB2C163J	RES. CARBON 16K 5% 1/6W	R337	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W
R228	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R338	R92-1577-05	RES. LINEAR PCT 1K 5% 1/6W
R229	NO USE		R339	NO USE	
R230	RD14BB2C823J	RES. CARBON 82K 5% 1/6W	R340	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R231	NO USE		R341	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R232	RN14BK2C4701F	RES. METAL FILM 4.7K 1% 1/6W	R342	NO USE	
R233	RN14BK2C470F	RES. METAL FILM 47 1% 1/6W	R343	RD14BB2C121J	RES. CARBON 120 5% 1/6W
R234	RN14BK2C1002F	RES. METAL FILM 10K 1% 1/6W	R344	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R235	RN14BK2C1002F	RES. METAL FILM 10K 1% 1/6W	R345	R92-1579-05	RES. LINEAR PCT 220
R236	RN14BK2C1301F	RES. METAL FILM 1.3K 1% 1/6W	R346	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R237	RN14BK2C1301F	RES. METAL FILM 1.3K 1% 1/6W	R347	RD14BB2C362J	RES. CARBON 3.6K 5% 1/6W
R238	RN14BK2C1801F	RES. METAL FILM 1.8K 1% 1/6W	R348	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R239	RD14BB2C470J	RES. CARBON 47 5% 1/6W	R401	RN14BK2C2201F	RES. METAL FILM 2.2K 1% 1/6W
R240	RD14BB2C470J	RES. CARBON 47 5% 1/6W	R407	RD14BK2C2201F	RES. METAL FILM 2.2K 1% 1/6W
R241	RD14BB2C272J	RES. CARBON 2.7K 5% 1/6W	R413	RN14BK2C1801D	RES. METAL FILM 1.8K 0.5% 1/6W
R242	RD14BB2C272J	RES. CARBON 2.7K 5% 1/6W	R414	RN14BK2C1002D	RES. METAL FILM 10K 0.5% 1/6W
R243	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R415	RN14BK2C2002D	RES. METAL FILM 20K 0.5% 1/6W
R244	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R416	RN14BK2C4022D	RES. METAL FILM 40.2K 0.5% 1/6W
R245	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R417	RN14BK2C8062D	RES. METAL FILM 80.6K 0.5% 1/6W
R247	RN14BK2C1001F	RES. METAL FILM 1K 1% 1/6W	R418	RN14BK2C1603D	RES. METAL FILM 160K 0.5% 1/6W
R248	RD14BB2C273J	RES. CARBON 27K 5% 1/6W	R419	RN14BK2C2153D	RES. METAL FILM 215K 0.5% 1/6W
R249	RD14BB2C181J	RES. CARBON 180 5% 1/6W	R420	NO USE	
R250	RD14BB2C333J	RES. CARBON 33K 5% 1/6W	R421	RN14BK2C1801D	RES. METAL FILM 1.8K 0.5% 1/6W
R251	RD14BB2C513J	RES. CARBON 51K 5% 1/6W	R422	RN14BK2C1002D	RES. METAL FILM 10K 0.5% 1/6W
R252	RD14BB2C333J	RES. CARBON 33K 5% 1/6W	R423	RN14BK2C2002D	RES. METAL FILM 20K 0.5% 1/6W
R253	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R424	RN14BK2C4022D	RES. METAL FILM 40.2K 0.5% 1/6W
R254	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R425	RN14BK2C8062D	RES. METAL FILM 80.6K 0.5% 1/6W
R255	RD14BB2C752J	RES. CARBON 7.5K 5% 1/6W	R426	RN14BK2C1603D	RES. METAL FILM 160K 0.5% 1/6W
R256	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W	R427	RN14BK2C2153D	RES. METAL FILM 215K 0.5% 1/6W
R257	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R428	NO USE	
R258	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R429	RN14BK2C5101F	RES. METAL FILM 5.1K 1% 1/6W
R259	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R430	RN14BK2C1003D	RES. METAL FILM 100K 0.5% 1/6W
R260	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R431	RN14BK2C5002D	RES. METAL FILM 50K 0.5% 1/6W
R261	RD14BB2C431J	RES. CARBON 430 5% 1/6W	R432	RN14BK2C3002D	RES. METAL FILM 30K 0.5% 1/6W
R262	RD14BB2C820J	RES. CARBON 82 5% 1/6W	R433	RN14BK2C2002D	RES. METAL FILM 20K 0.5% 1/6W
R263	RD14BB2C153J	RES. CARBON 15K 5% 1/6W	R434	NO USE	
R264	RD14BB2C622J	RES. CARBON 6.2K 5% 1/6W	R435	RN14BK2C1502F	RES. METAL FILM 15K 1% 1/6W
R265	RD14BB2C362J	RES. CARBON 3.6K 5% 1/6W	R436	RN14BK2C1003D	RES. METAL FILM 100K 0.5% 1/6W
R266	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R437	RN14BK2C5002D	RES. METAL FILM 50K 0.5% 1/6W
R267	RD14BB2C473J	RES. CARBON 47K 5% 1/6W	R438	RN14BK2C3002D	RES. METAL FILM 30K 0.5% 1/6W
R268	RD14BB2C361J	RES. CARBON 360 5% 1/6W	R439	RN14BK2C2002D	RES. METAL FILM 20K 0.5% 1/6W
R269	RD14BB2C271J	RES. CARBON 270 5% 1/6W	R440	RN14BK2C2101F	RES. METAL FILM 2.1K 1% 1/6W
R270	R92-1578-05	RES. LINEAR PCT 3.9K 5% 1/6W	R441	RD14BB2C152J	RES. CARBON 1.5K 5% 1/6W
R271	RD14BB2C121J	RES. CARBON 120 5% 1/6W	R442	RN14BK2C1002F	RES. METAL FILM 10K 1% 1/6W
R272	RD14BB2C100J	RES. CARBON 10 5% 1/6W	R443	RN14BK2C2002F	RES. METAL FILM 20K 1% 1/6W
R273	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R444	RN14BK2C4022F	RES. METAL FILM 40.2K 1% 1/6W
R274	RD14BB2C201J	RES. CARBON 200 5% 1/6W	R445	RN14BK2C8062F	RES. METAL FILM 80.6K 1% 1/6W
R275	RD14BB2C470J	RES. CARBON 47 5% 1/6W	R446	RD14BB2C221J	RES. CARBON 220 5% 1/6W
R276	NO USE		R447	RD14BB2C221J	RES. CARBON 220 5% 1/6W
R277	RD14BB2C473J	RES. CARBON 47K 5% 1/6W	S101	S64-0603-05	LEVER SWITCH
R300	RD14BB2C220J	RES. CARBON 22 5% 1/6W	S102	S60-0611-05	ATTENUATOR
R301	RN14BK2C8003F	RES. METAL FILM 800K 1% 1/6W	S201	S64-0603-05	LEVER SWITCH
R302	RN14BK2C2003F	RES. METAL FILM 200K 1% 1/6W	S202	S60-0611-05	ATTENUATOR
R303	RD14BB2C470J	RES. CARBON 47 5% 1/6W	S401	S60-0613-05	ROTARY SWITCH
R304	RD14BB2C470J	RES. CARBON 47 5% 1/6W	TC105	C91-1239-05	CAP. CERAMIC 15P 5% 50V
R305	RN14BK2C331J	RES. CARBON 330 5% 1/6W	TC106	C05-0469-05	CAP. TRIMMER 10P
R306	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W	TC205	C05-0470-05	C

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION	REF. NO	PARTS NO	NAME & DESCRIPTION
D201	ISS132	DIODE	Q213	2SA1161	TR. SI, PNP
D202	ISS132	DIODE	Q214	2SA1459(K)	TR. SI, PNP
D203	ISS132	DIODE	Q215	2SC1740S(R,S)	TR. SI, NPN
D204	ISS132	DIODE	Q302	2SC1923(O)	TR. SI, NPN
D205	ISS132	DIODE	Q303	2SK404(E)	FET, N-CHANNEL
D206	ISS132	DIODE	Q304	2SC1907	TR. SI, NPN
D207	ISS132	DIODE	Q305	2SA1459(K)	TR. SI, PNP
D208	ISS132	DIODE	Q306	2SA1459(K)	TR. SI, PNP
D301	ISS132	DIODE	Q307	2SC1907	TR. SI, NPN
D302	ISS132	DIODE	Q308	2SC1907	TR. SI, NPN
D303	ISS132	DIODE	Q309	2SC1907	TR. SI, NPN
D304	ISS132	DIODE	Q310	2SA1459(K)	TR. SI, PNP
D305	ISS132	DIODE	Q311	2SA1459(K)	TR. SI, PNP
D306	ISS132	DIODE	Q312	2SC1907	TR. SI, NPN
D307	ISS132	DIODE	Q313	2SA1459(K)	TR. SI, PNP
D308	ISS132	DIODE	Q314	2SA1459(K)	TR. SI, PNP
D309	ISS132	DIODE	R1	RN14BK2C2002F	RES. METAL FILM 20K 1% 1/6W
JW6	E38-0985-05	WIRE ASS'Y; V TO H TRG	R2	RN14BK2C2001F	RES. METAL FILM 2K 1% 1/6W
JW10	E38-0986-05	WIRE ASS'Y; V TO H SWP	R3	RN14BK2C2001F	RES. METAL FILM 2K 1% 1/6W
JW301	E38-0987-15	WIRE ASS'Y; CH3 INPUT	R6	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W
JW501	E38-0983-25	WIRE ASS'Y; SUB PANEL TO GND	R7	RD14BB2C473J	RES. CARBON 47K 5% 1/6W
L1	L78-0553-05	NOISE FILTER	R8	RN14BK2C3900F	RES. METAL FILM 380 1% 1/6W
L40	L40-2201-17	FERRI INDUCTOR 22UH 10%	R9	RN14BK2C3900F	RES. METAL FILM 390 1% 1/6W
L51	L40-4701-17	FERRI INDUCTOR 4.7UH 10%	R10	RN14BK2C7500F	RES. METAL FILM 750 1% 1/6W
L52	L40-4701-17	FERRI INDUCTOR 4.7UH 10%	R11	RN14BK2C7500F	RES. METAL FILM 750 1% 1/6W
L301	L40-4781-17	FERRI INDUCTOR 0.47UH 10%	R12	R92-1553-05	RES. SPECIAL POWER 620 5% 1W
P1	E04-0259-05	BNC RECEPTACLE	R17	RN14BK2C6200F	RES. METAL FILM 620 1% 1/6W
P2	E04-0259-05	BNC RECEPTACLE	R18	RN14BK2C6200F	RES. METAL FILM 620 1% 1/6W
P3	E04-0259-05	BNC RECEPTACLE	R19	RN14BK2C39R0F	RES. METAL FILM 39 1% 1/6W
P4	E40-7515-05	PIN CONNECTOR 3P	R20	RN14BK2C39R0F	RES. METAL FILM 39 1% 1/6W
P8	E40-7518-05	PIN CONNECTOR 6P	R21	NO USE	
P12	E40-5066-05	PIN CONNECTOR 9P	R22	RN14BK2C6802F	RES. METAL FILM 68K 1% 1/6W
P13	E40-7515-05	PIN CONNECTOR 3P	R31	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
P201	E40-7432-05	PIN CONNECTOR 13P	R32	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
P202	E40-7423-05	PIN CONNECTOR 4P	R33	RD14BB2C751J	RES. CARBON 750 5% 1/6W
P203	E40-7430-05	PIN CONNECTOR 11P	R34	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
P204	E40-7426-05	PIN CONNECTOR 7P	R35	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
P205	E40-7422-05	PIN CONNECTOR 3P	R36	R90-0645-05	RES. NETWORK 4X10K
P206	E40-7426-05	PIN CONNECTOR 7P	R37	RD14BB2C122J	RES. CARBON 1.2K 5% 1/6W
P207	E40-7432-05	PIN CONNECTOR 13P	R38	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
P208	E40-7432-05	PIN CONNECTOR 13P	R39	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
Q1	2SC1740S(R,S)	TR. SI, NPN	R40	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
Q2	2SC3779(D)	TR. SI, NPN	R41	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
Q3	2SC3779(D)	TR. SI, NPN	R42	RD14BB2C100J	RES. CARBON 10 5% 1/6W
Q32	2SC3066(G)	TR. SI, NPN	R43	RD14BB2C100J	RES. CARBON 10 5% 1/6W
Q33	2SC1740S(R,S)	TR. SI, NPN	R44	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q34	2SA933S(R,S)	TR. SI, PNP	R45	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q51	2SC1923(O)	TR. SI, NPN	R52	RD14BB2C391J	RES. CARBON 390 5% 1/6W
Q101	2SC1923(O)	TR. SI, NPN	R59	RD14BB2C432J	RES. CARBON 4.3K 5% 1/6W
Q102	2SK404(E)	FET, N-CHANNEL	R62	RD14BB2C101J	RES. CARBON 100 5% 1/6W
Q103	2SC1907	TR. SI, NPN	R63	RD14BB2C201J	RES. CARBON 200 5% 1/6W
Q106	2SC3779(D)	TR. SI, NPN	R64	RD14BB2C133J	RES. CARBON 13K 5% 1/6W
Q107	2SC3779(D)	TR. SI, NPN	R65	RD14BB2C910J	RES. CARBON 91 5% 1/6W
Q108	2SA1459(K)	TR. SI, PNP	R66	RD14BB2C910J	RES. CARBON 91 5% 1/6W
Q109	2SA1459(K)	TR. SI, PNP	R67	RD14BB2C470J	RES. CARBON 47 5% 1/6W
Q110	2SA1459(K)	TR. SI, PNP	R68	RD14BB2C470J	RES. CARBON 47 5% 1/6W
Q111	2SA1459(K)	TR. SI, PNP	R69	RD14BB2C470J	RES. CARBON 47 5% 1/6W
Q112	2SA1161	TR. SI, PNP	R70	RD14BB2C470J	RES. CARBON 47 5% 1/6W
Q113	2SA1161	TR. SI, PNP	R71	RD14BB2C470J	RES. CARBON 47 5% 1/6W
Q114	2SA1459(K)	TR. SI, PNP	R101	RD14BB2E220J	RES. CARBON 22 5% 1/4W
Q201	2SC1923(O)	TR. SI, NPN	R102	NO USE	
Q202	2SK404(E)	FET, N-CHANNEL	R103	RD14BB2C220J	RES. CARBON 22 5% 1/6W
Q203	2SC1907	TR. SI, NPN	R104	RD14BB2C105J	RES. CARBON 1M 5% 1/6W
Q206	2SC3779(D)	TR. SI, NPN	R107	RD14BB2C684J	RES. CARBON 680K 5% 1/6W
Q207	2SC3779(D)	TR. SI, NPN	R108	RD14BB2C220J	RES. CARBON 22 5% 1/6W
Q208	2SA1459(K)	TR. SI, PNP	R109	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W
Q209	2SA1459(K)	TR. SI, PNP	R110	NO USE	
Q210	2SA1459(K)	TR. SI, PNP	R111	RD14BB2C160J	RES. CARBON 16 5% 1/6W
Q211	2SA1459(K)	TR. SI, PNP	R112	RN14BK2C2700F	RES. METAL FILM 270 1% 1/6W
Q212	2SA1161	TR. SI, PNP	R113	NO USE	
Q201	2SC1923(O)	TR. SI, NPN	R114	RD14BB2C220J	RES. CARBON 22 5% 1/6W
Q202	2SK404(E)	FET, N-CHANNEL	R115	RN14BK2C1301F	RES. METAL FILM 1.3K 1% 1/6W
Q203	2SC1907	TR. SI, NPN	R116	RN14BK2C1301F	RES. METAL FILM 1.3K 1% 1/6W
Q206	2SC3779(D)	TR. SI, NPN	R117	RN14BK2C3301F	RES. METAL FILM 3.3K 1% 1/6W
Q207	2SC3779(D)	TR. SI, NPN	R118	RN14BK2C2401F	RES. METAL FILM 2.4K 1% 1/6W
Q208	2SA1459(K)	TR. SI, PNP	R119	RN14BK2C5100F	RES. METAL FILM 510 1% 1/6W
Q209	2SA1459(K)	TR. SI, PNP	R120	RD14BB2C301J	RES. CARBON 300 5% 1/6W
Q210	2SA1459(K)	TR. SI, PNP	R121	RN14BK2C1004F	RES. METAL FILM 1M 1% 1/6W
Q211	2SA1459(K)	TR. SI, PNP	R122	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
Q212	2SA1161	TR. SI, PNP	R123	RD14BB2C331J	RES. CARBON 330 5% 1/6W
Q214	2SA1459(K)	TR. SI, PNP	R124	RD14BB2C103J	RES. CARBON 10K 5% 1/6W

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION				REF. NO	PARTS NO	NAME & DESCRIPTION			
R125	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W	R241	RD14BB2C272J	RES. CARBON	2.7K	5%	1/6W
R126	RD14BB2C273J	RES. CARBON	27K	5%	1/6W	R242	RD14BB2C272J	RES. CARBON	2.7K	5%	1/6W
R127	RD14BB2C163J	RES. CARBON	16K	5%	1/6W	R243	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R128	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W	R244	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R129	NO USE					R245	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R130	RD14BB2C823J	RES. CARBON	82K	5%	1/6W	R246	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R131	NO USE					R247	RD14BK2C1001F	RES. METAL FILM	1K	1%	1/6W
R132	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W	R248	RD14BB2C273J	RES. CARBON	27K	5%	1/6W
R133	RN14BK2C47R0F	RES. METAL FILM	47	1%	1/6W	R249	RD14BB2C181J	RES. CARBON	180	5%	1/6W
R134	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W	R250	RD14BB2C333J	RES. CARBON	33K	5%	1/6W
R135	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W	R251	RD14BB2C513J	RES. CARBON	51K	5%	1/6W
R136	RN14BK2C1301F	RES. METAL FILM	1.3K	1%	1/6W	R252	RD14BB2C333J	RES. CARBON	33K	5%	1/6W
R137	RN14BK2C1301F	RES. METAL FILM	1.3K	1%	1/6W	R253	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R138	RN14BK2C1801F	RES. METAL FILM	1.8K	1%	1/6W	R254	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R139	RD14BB2C470J	RES. CARBON	47	5%	1/6W	R255	RD14BB2C752J	RES. CARBON	7.5K	5%	1/6W
R140	RD14BB2C470J	RES. CARBON	47	5%	1/6W	R256	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R141	RD14BB2C272J	RES. CARBON	2.7K	5%	1/6W	R257	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R142	RD14BB2C272J	RES. CARBON	2.7K	5%	1/6W	R258	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R143	RD14BB2C101J	RES. CARBON	100	5%	1/6W	R259	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R144	RD14BB2C101J	RES. CARBON	100	5%	1/6W	R260	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R145	RD14BB2C102J	RES. CARBON	1K	5%	1/6W	R261	RD14BB2C431J	RES. CARBON	430	5%	1/6W
R146	RD14BB2C102J	RES. CARBON	1K	5%	1/6W	R262	RD14BB2C820J	RES. CARBON	82	5%	1/6W
R147	RN14BK2C1001F	RES. METAL FILM	1K	1%	1/6W	R263	RD14BB2C513J	RES. CARBON	15K	5%	1/6W
R148	RD14BB2C273J	RES. CARBON	27K	5%	1/6W	R264	RD14BB2C622J	RES. CARBON	6.2K	5%	1/6W
R149	RD14BB2C201J	RES. CARBON	200	5%	1/6W	R265	RD14BB2C362J	RES. CARBON	3.6K	5%	1/6W
R150	RD14BB2C333J	RES. CARBON	33K	5%	1/6W	R266	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R151	RD14BB2C513J	RES. CARBON	51K	5%	1/6W	R267	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R152	RD14BB2C333J	RES. CARBON	33K	5%	1/6W	R268	RD14BB2C361J	RES. CARBON	360	5%	1/6W
R153	RD14BB2C220J	RES. CARBON	22	5%	1/6W	R269	RD14BB2C271J	RES. CARBON	270	5%	1/6W
R154	RD14BB2C220J	RES. CARBON	22	5%	1/6W	R270	R92-1578-05	RES. LINEAR PCT	3.9K	5%	1/6W
R155	RD14BB2C752J	RES. CARBON	7.5K	5%	1/6W	R271	RD14BB2C121J	RES. CARBON	120	5%	1/6W
R156	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W	R272	RD14BB2C100J	RES. CARBON	10	5%	1/6W
R157	RD14BB2C101J	RES. CARBON	100	5%	1/6W	R273	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R158	RD14BB2C101J	RES. CARBON	100	5%	1/6W	R274	RD14BB2C201J	RES. CARBON	200	5%	1/6W
R159	RD14BB2C102J	RES. CARBON	1K	5%	1/6W	R275	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R160	RD14BB2C102J	RES. CARBON	1K	5%	1/6W	R276	NO USE				
R161	RD14BB2C431J	RES. CARBON	430	5%	1/6W	R277	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R162	RD14BB2C820J	RES. CARBON	82	5%	1/6W	R278	NO USE				
R163	RD14BB2C153J	RES. CARBON	15K	5%	1/6W	R279	NO USE				
R164	RD14BB2C622J	RES. CARBON	6.2K	5%	1/6W	R280	NO USE				
R165	RD14BB2C362J	RES. CARBON	3.6K	5%	1/6W	R281	NO USE				
R166	RD14BB2C101J	RES. CARBON	100	5%	1/6W	R282	NO USE				
R170	R92-1578-05	RES. LINEAR PCT	3.9K	5%	1/6W	R283	NO USE				
R171	NO USE					R284	NO USE				
R172	RD14BB2C100J	RES. CARBON	10	5%	1/6W	R285	NO USE				
R173	NO USE					R286	NO USE				
R174	RD14BB2C201J	RES. CARBON	200	5%	1/6W	R287	NO USE				
R175	RD14BB2C470J	RES. CARBON	47	5%	1/6W	R288	NO USE				
R176	NO USE					R289	NO USE				
R177	RD14BB2C473J	RES. CARBON	47K	5%	1/6W	R290	NO USE				
R201	RD14BB2E220J	RES. CARBON	22	5%	1/4W	R291	NO USE				
R202	NO USE					R292	NO USE				
R203	RD14BB2C220J	RES. CARBON	22	5%	1/6W	R293	NO USE				
R204	RD14BB2C105J	RES. CARBON	1M	5%	1/6W	R294	NO USE				
R207	RD14BB2C684J	RES. CARBON	680K	5%	1/6W	R295	NO USE				
R208	RD14BB2C220J	RES. CARBON	22	5%	1/6W	R296	NO USE				
R209	RD14BB2C132J	RES. CARBON	1.3K	5%	1/6W	R297	NO USE				
R210	NO USE					R298	NO USE				
R211	RD14BB2C160J	RES. CARBON	16	5%	1/6W	R299	NO USE				
R212	RN14BK2C2200F	RES. METAL FILM	220	1%	1/6W	R300	RD14BB2C220J	RES. CARBON	22	5%	1/6W
R213	NO USE					R301	RN14BK2C8003F	RES. METAL FILM	800K	1%	1/6W
R214	RD14BB2C220J	RES. CARBON	22	5%	1/6W	R302	RN14BK2C2003F	RES. METAL FILM	200K	1%	1/6W
R215	RN14BK2C1301F	RES. METAL FILM	1.3K	1%	1/6W	R303	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R216	RN14BK2C1301F	RES. METAL FILM	1.3K	1%	1/6W	R304	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R217	RN14BK2C3301F	RES. METAL FILM	3.3K	1%	1/6W	R305	RD14BB2C331J	RES. CARBON	330	5%	1/6W
R218	RN14BK2C2401F	RES. METAL FILM	2.4K	1%	1/6W	R306	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R219	RN14BK2C5100F	RES. METAL FILM	510	1%	1/6W	R307	RD14BB2C822J	RES. CARBON	8.2K	5%	1/6W
R220	RD14BB2C301J	RES. CARBON	300	5%	1/6W	R308	RD14BB2C302J	RES. CARBON	3K	5%	1/6W
R221	RN14BK2C1004F	RES. METAL FILM	1M	1%	1/6W	R309	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R222	RD14BB2C103J	RES. CARBON	10K	5%	1/6W	R310	RD14BB2C470J	RES. CARBON	47	5%	1/6W
R223	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W	R311	RD14BB2C362J	RES. CARBON	3.6K	5%	1/6W
R224	RD14BB2C103J	RES. CARBON	10K	5%	1/6W	R312	RD14BB2C362J	RES. CARBON	3.6K	5%	1/6W
R225	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W	R313	RD14BB2C621J	RES. CARBON	620	5%	1/6W
R226	RD14BB2C273J	RES. CARBON	27K	5%	1/6W	R314	RD14BB2C131J	RES. CARBON	130	5%	1/6W
R227	RD14BB2C163J	RES. CARBON	16K	5%	1/6W	R315	NO USE				
R228	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W	R316	RN14BK2C7500F	RES. METAL FILM	750	1%	1/6W
R229	NO USE					R317	RD14BB2C112J	RES. CARBON	1.1K	5%	1/6W
R230	RD14BB2C823J	RES. CARBON	82K	5%	1/6W	R318	RD14BB2C112J	RES. CARBON	1.1K	5%	1/6W
R231	NO USE					R319	RN14BK2C4300F	RES. METAL FILM	430	1%	1/6W
R232	RN14BK2C4701F	RES. METAL FILM	4.7K	1%	1/6W	R320	RN14BK2C3301F	RES. METAL FILM	3.3K	1%	1/6W
R233	RN14BK2C47R0F	RES. METAL FILM	47	1%	1/6W	R321	RN14BK2C6801F	RES. METAL FILM	6.8K	1%	1/6W
R234	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W	R322	RN14BK2C8200F	RES. METAL FILM	820	1%	1/6W
R235	RN14BK2C1002F	RES. METAL FILM	10K	1%	1/6W	R323	RN14BK2C8200F	RES. METAL FILM	820	1%	1/6W
R236	RN14BK2C1301F	RES. METAL FILM	1.3K	1%	1/6W	R324	RD14BB2C203J	RES. CARBON	20K	5%	1/6W
R237	RN14BK2C1301F	RES. METAL FILM	1.3K	1%	1/6W	R325	RD14BB2C333J	RES. CARBON	33K	5%	1/6W
R238	RN14BK2C1801F	RES. METAL FILM	1.8K	1%	1/6W	R326	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R239	RD14BB2C470J	RES. CARBON	47	5%	1/6W	R327	RD14BB2C362J	RES. CARBON	3.6K	5%	1/6W
R240	RD14BB2C470J	RES. CARBON	47	5%	1/6W	R328	RD14BB2C682J	RES. CARBON	6.8K	5%	1/6W
						R329	RD14BB2C362J	RES. CARBON	3.6K	5%	1/6W
						R330	RD14BB2C682J	RES. CARBON	6.8K	5%	1/6W
						R331	NO USE				
						R332	RD14BB2C113J	RES. CARBON	11K	5%	1/6W
						R333	RD14BB2C302J	RES. CARBON	3K	5%	1/6W
						R334	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
						R335	RD14BB2C821J	RES. CARBON	820	5%	1/6W
						R336	RD14BB2C471J	RES. CARBON	470	5%	1/6W
						R337	RD14BB2C332J	RES. CARBON	1.3K	5%	1/6W
						R338	R92-1577-05	RES. LINEAR PCT	1K	5%	1/6W
						R339	NO USE				
						R340	RD14BB2C470J	RES. CARBON	47	5%	1/6W
						R341	RD14BB2C470J	RES. CARBON	47	5%	1/6W
						R342	NO USE				
						R343	RD14BB2C121J	RES. CARBON	120	5%	1/6W
						R344	RD14BB2C101J	RES. CARBON	100	5%	1/6W
						R345	R92-1579-05	RES. LINEAR PCT	220		
						R346	RD14BB2C470J	RES. CARBON	47	5%	1/6W
						R347	RD14BB2C362J	RES. CARBON	3.6K	5%	1/6W

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION			
R417	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R418	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R422	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R423	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R424	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R425	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R426	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R429	RN14BK2C5101F	RES. METAL FILM	5.1K	1%	1/6W
R430	RN14BK2C1003D	RES. METAL FILM	100K	0.5%	1/6W
R431	RN14BK2C5002D	RES. METAL FILM	50K	0.5%	1/6W
R432	RN14BK2C3002D	RES. METAL FILM	30K	0.5%	1/6W
R433	RN14BK2C2002D	RES. METAL FILM	20K	0.5%	1/6W
R434	NO USE				
R435	RN14BK2C1502F	RES. METAL FILM	15K	1%	1/6W
R436	RN14BK2C1003D	RES. METAL FILM	100K	0.5%	1/6W
R437	RN14BK2C5002D	RES. METAL FILM	50K	0.5%	1/6W
R438	RN14BK2C3002D	RES. METAL FILM	30K	0.5%	1/6W
R439	RN14BK2C2002D	RES. METAL FILM	20K	0.5%	1/6W
R446	RD14BB2C221J	RES. CARBON	220	5%	1/6W
R447	RD14BB2C221J	RES. CARBON	220	5%	1/6W
S101	S64-0603-05	LEVER SWITCH			
S102	S60-0610-05	ATTENUATOR			
S201	S64-0603-05	LEVER SWITCH			
S202	S60-0610-05	ATTENUATOR			
S401	S60-0613-05	ROTARY SWITCH			
TC105	C91-1239-05	CAP. CERAMIC	15P	5%	50V
TC106	C05-0469-05	CAP. TRIMMER	10P		
TC205	C05-0470-05	CAP. TRIMMER	20P		
TC206	C05-0469-05	CAP. TRIMMER	10P		
TC301	C05-0469-05	CAP. TRIMMER	10P		
TC302	C05-0469-05	CAP. TRIMMER	10P		
TC303	C05-0469-05	CAP. TRIMMER	10P		
TH101	112-102-2	THERMISTOR			
TH102	112-201-2FM	THERMISTOR			
TH201	112-102-2	THERMISTOR			
TH202	112-201-2FM	THERMISTOR			
TH301	112-201-2FM	THERMISTOR			
U1	KMS01	IC, LINEAR			
U2	SN74LS158N	IC, QUAD 2-1 DATA SELECTOR/MPX			
U3	SN74LS112AN	IC, DUAL J-K F.F.			
U4	SN74LS00N	IC, QUAD 2-INPUT NAND GATE			
U101	KMC13	IC, LINEAR			
U102	KMC12	IC, LINEAR			
U201	KMC13	IC, LINEAR			
U202	KMC12	IC, LINEAR			
U404	TC4053BP	IC, TRIPLE 2-CH MPX/DE-MPX			
U405	TC4053BP	IC, TRIPLE 2-CH MPX/DE-MPX			
VR1	R12-0679-05	RES. SEMI FIXED 22KB			
VR31	R12-0880-05	RES. SEMI FIXED 220			
VR102	R12-0885-05	RES. SEMI FIXED 100			
VR103	R12-0680-05	RES. SEMI FIXED 47K			
VR104	R12-0885-05	RES. SEMI FIXED 100			
VR105	R12-0679-05	RES. SEMI FIXED 22KB			
VR106	R12-0679-05	RES. SEMI FIXED 22KB			
VR202	R12-0885-05	RES. SEMI FIXED 100			
VR203	R12-0680-05	RES. SEMI FIXED 47K			
VR204	R12-0885-05	RES. SEMI FIXED 100			
VR205	R12-0679-05	RES. SEMI FIXED 22KB			
VR206	R12-0679-05	RES. SEMI FIXED 22KB			
VR207	R12-0885-05	RES. SEMI FIXED 100			
VR208	R12-0885-05	RES. SEMI FIXED 100			
VR301	R12-0887-05	RES. SEMI FIXED 470			
VR302	R12-0680-05	RES. SEMI FIXED 47K			
VR303	R12-0679-05	RES. SEMI FIXED 22KB			
VR402	R12-3599-05	RES. SEMI FIXED 22K			
VR403	R12-3599-05	RES. SEMI FIXED 22K			

CS-5260 HORIZONTAL UNIT

X74-1580-02

REF. NO	PARTS NO	NAME & DESCRIPTION			
E23-0149-05		GND TERMINAL			
E23-0557-14		EARTH LUG, THERMAL FUSE			
F01-0867-05		HEAT SINK, HIGH VOLTAGE			
F01-2316-05		HEAT SINK, POWER			
J73-0284-22		PCB (UNMOUNTED)			
N09-0623-04		SCREW, SENS PAN HD M3X8			
C1	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C2	NO USE				
C3	C91-2585-05	CAP. CERAMIC	68P	5%	50V
C4	CF92FV1H103J	CAP. POLYESTER	0.01	5%	50V
C5	C91-2586-05	CAP. CERAMIC	82P	5%	50V
C6	CG45FC1H470J	CAP. CERAMIC	47P	5%	50V
C7	CC45FC1H101C	CAP. CERAMIC	1P	0.25P	50V
C8	CC45FC1H070D	CAP. CERAMIC	7P	0.5P	50V
C9	NO USE				
C10	CK45FB1H222K	CAP. CERAMIC	2200P	10%	50V
C11	C91-0757-05	CAP. CERAMIC	1000P	10%	50V
C12	C91-2538-05	CAP. MYLAR	0.1		63V
C13	C91-2583-05	CAP. CERAMIC	47P	5%	50V
C14	CC45FC1H101J	CAP. CERAMIC	100P	5%	50V
C15	NO USE				
C16	CE04LW1E100M	CAP. ELECTRO	10	20%	25V
C17	CE04LW1H010M	CAP. ELECTRO	1	20%	50V
C18	CE04LW1H010M	CAP. ELECTRO	1	20%	50V
C19	CF92FV1H682J	CAP. POLYESTER	6800P	5%	50V
C20	CF92FV1H222J	CAP. POLYESTER	2200P	5%	50V
C21	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C22	CE04HW1H010M	CAP. ELECTRO	1	20%	50V
C23	CE04HW1H010M	CAP. ELECTRO	1	20%	50V
C24	NO USE				
C25	CE04LW1E100M	CAP. ELECTRO	10	20%	25V
C26	CF92FV1H684J	CAP. POLYESTER	0.68	5%	50V
C27	CF92FV1H684J	CAP. POLYESTER	0.68	5%	50V
C28	CE04HW1E220M	CAP. ELECTRO	22	20%	25V
C29	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C30	C91-2538-05	CAP. MYLAR	0.1		63V
C31	CE04LW0J331M	CAP. ELECTRO	330	20%	6.3V
C32	CE04EW1A101M	CAP. ELECTRO	100	20%	10V
C33	CC45FC1H020C	CAP. CERAMIC	2P	0.25P	50V
C34	CE04LW1C331M	CAP. ELECTRO	330	20%	16V
C35	CC45FSL1H221J	CAP. CERAMIC	220P	5%	50V
C36	C91-0745-05	CAP. CERAMIC	100P	10%	50V
C37	C91-0745-05	CAP. CERAMIC	100P	10%	50V
C101	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C102	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C103	CF92FV1H332J	CAP. POLYESTER	3300P	5%	50V
C104	C91-2582-05	CAP. POLYESTER	0.47	5%	100V
C105	CC45FCH1H220J	CAP. CERAMIC	22P	5%	50V
C106	CK45FB1H102K	CAP. CERAMIC	1000P	10%	50V
C107	CE04HW1H2R2M	CAP. ELECTRO	2.2	20%	50V
C108	CC45FCH1H101J	CAP. CERAMIC	100P	5%	50V
C109	NO USE				
C110	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C111	CF92FV1H104J	CAP. POLYESTER	0.1	5%	50V
C112	CC45FCH1H220J	CAP. CERAMIC	22P	5%	50V
C113	CC45FCH1H330J	CAP. CERAMIC	33P	5%	50V
C114	CE04LW1A220M	CAP. ELECTRO	22	20%	10V
C115	C91-2604-05	CAP. CERAMIC	390P	5%	50V
C116	C91-2598-05	CAP. CERAMIC	120P	5%	50V
C117	CC45FCH1H680J	CAP. CERAMIC	68P	5%	50V
C118	CC45FCH1H680J	CAP. CERAMIC	68P	5%	50V
C119	NO USE				
C120	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C121	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C122	CC45FCH1H390J	CAP. CERAMIC	39P	5%	50V
C123	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C124	C91-2582-05	CAP. POLYESTER	0.47	5%	100V
C125	CE04LW0J331M	CAP. ELECTRO	330	20%	6.3V
C126	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C127	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C128	C91-2538-05	CAP. MYLAR	0.1		63V
C129	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C132	CC45FCH1H030C	CAP. CERAMIC	3P	0.25P	50V
C135	CE04LW0J331M	CAP. ELECTRO	330	20%	6.3V
C136	CE04LW0J331M	CAP. ELECTRO	330	20%	6.3V
C137	CE04LW0J331M	CAP. ELECTRO	330	20%	6.3V
C138	CE04LW1C101M	CAP. ELECTRO	100	20%	16V
C139	CC45FSL1H331J	CAP. CERAMIC	330P	5%	50V
C140	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C141	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C142	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C143	C91-0737-05	CAP. CERAMIC	47P	5%	50V

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION	REF. NO	PARTS NO	NAME & DESCRIPTION
C144	C91-0737-05	CAP. CERAMIC 47P 5% 50V	D7	ISS132	DIODE
C145	CE04LW1C100H	CAP. ELECTRO 10 20% 16V	D8	ISS132	DIODE
C146	CC45FSL1H030C	CAP. CERAMIC 3P 0.25P 50V	D9	ISS132	DIODE
C201	CC45FCH1H070D	CAP. CERAMIC 7P 0.5P 50V	D10	ISS132	DIODE
C202	NO USE		D11	ISS132	DIODE
C203	CC45FCH1H120J	CAP. CERAMIC 12P 5% 50V	D12	MA700	DIODE
C204	C91-0769-05	CAP. CERAMIC 0.01 20% 16V	D13	ISS132	DIODE
C205	C91-0769-05	CAP. CERAMIC 0.01 20% 16V	D14	ISS132	DIODE
C206	NO USE		D15	ISS132	DIODE
C207	CK45B2H472K	CAP. CERAMIC 4700P 10% 500V	D16	ISS132	DIODE
C208	CE04W2E010M	CAP. ELECTRO 1 20% 250V	D17	ISS132	DIODE
C209	CC45FCH2H020C	CAP. CERAMIC 2P 0.25P 500V	D18	ISS132	DIODE
C210	CK45B2H472K	CAP. CERAMIC 4700P 10% 500V	D101	ISS132	DIODE
C211	CE04W2E010M	CAP. ELECTRO 1 20% 250V	D102	ISS132	DIODE
C212	CE04W2E010M	CAP. ELECTRO 1 20% 250V	D103	ISS132	DIODE
C213	CK45FB2H102K	CAP. CERAMIC 1000P 10% 500V	D104	ISS132	DIODE
C214	CK45FB2H102K	CAP. CERAMIC 1000P 10% 500V	D105	ISS132	DIODE
C215	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K	D106	ISS132	DIODE
C216	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K	D107	ISS132	DIODE
C217	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K	D108	ISS132	DIODE
C218	CE04W2E010M	CAP. ELECTRO 1 20% 250V	D109	MA700	DIODE
C219	NO USE		D110	ISS132	DIODE
C220	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K	D111	ISS132	DIODE
C221	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K	D112	ISS132	DIODE
C222	CE04LW1E221H	CAP. ELECTRO 220 20% 25V	D113	ISS132	DIODE
C223	CE04LW1H101H	CAP. ELECTRO 100 20% 50V	D114	MA700	DIODE
C224	CK45FB1H472K	CAP. CERAMIC 4700P 10% 50V	D115	ISS132	DIODE
C227	CC45FCH2H101J	CAP. CERAMIC 100P 5% 500V	D116	ISS132	DIODE
C228	CK45FB1H222K	CAP. CERAMIC 2200P 10% 50V	D117	ISS132	DIODE
C229	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K	D118	ISS132	DIODE
C230	CK45E3D102P	CAP. CERAMIC 1000P 2K	D119	ISS132	DIODE
C231	C91-2581-05	CAP. CERAMIC 0.01 5% 2KV	D120	ISS132	DIODE
C232	CE04W2E010M	CAP. ELECTRO 1 20% 250V	D121	ISS132	DIODE
C233	CE04LW1C101H	CAP. ELECTRO 100 20% 16V	D122	ISS132	DIODE
C234	CE04LW1C101H	CAP. ELECTRO 100 20% 16V	D123	ISS132	DIODE
C235	CE04LW1C101H	CAP. ELECTRO 100 20% 16V	D124	ISS132	DIODE
C236	CE04LW1C101H	CAP. ELECTRO 100 20% 16V	D125	ISS132	DIODE
C301	CC45FCH1H101J	CAP. CERAMIC 100P 5% 50V	D126	ISS132	DIODE
C302	CC45FSL1H331J	CAP. CERAMIC 330P 5% 50V	D127	ISS132	DIODE
C303	C91-0713-05	CAP. CERAMIC 2.2 10% 50V	D128	ISS132	DIODE
C304	C91-1361-05	CAP. NYLAR 0.01 10% 100V	D129	ISS132	DIODE
C305	C91-2585-05	CAP. NYLAR 0.01 10% 250V	D130	MA700	DIODE
C306	C91-2587-05	CAP. NYLAR 0.1 10% 250V	D131	NO USE	
C307	C91-1361-05	CAP. NYLAR 0.01 10% 100V	D132	MA700	DIODE
C308	C91-2587-05	CAP. NYLAR 0.1 10% 100V	D133	MA700	DIODE
C309	C91-1361-05	CAP. NYLAR 0.01 10% 250V	D201	ISS132	DIODE
C310	C91-2587-05	CAP. NYLAR 0.1 10% 250V	D202	ISS132	DIODE
C311	C91-2585-05	CAP. NYLAR 0.01 10% 250V	D203	ISS83	DIODE
C312	CK45FB2H152K	CAP. CERAMIC 1500P 10% 500V	D204	ISS83	DIODE
C313	NO USE		D205	ISS83	DIODE
C314	CE04LW0J331H	CAP. ELECTRO 330 20% 6.3V	D206	ISS83	DIODE
C315	CE04LW0J331H	CAP. ELECTRO 330 20% 6.3V	D207	ISS83	DIODE
C316	CE04LW0J331H	CAP. ELECTRO 330 20% 6.3V	D208	ISS83	DIODE
C317	NO USE		D209	ISS83	DIODE
C318	CC45FCH1H020C	CAP. CERAMIC 2P 0.25P 50V	D210	ISS83	DIODE
C319	C91-0769-05	CAP. CERAMIC 0.01 20% 16V	D211	ISS132	DIODE
C320	NO USE		D212	ISS132	DIODE
C321	C91-0769-05	CAP. CERAMIC 0.01 20% 16V	D213	ISS132	DIODE
C322	CE04LW1A221H	CAP. ELECTRO 220 20% 10V	D301	MA700	DIODE
C323	CC45FCH1H150J	CAP. CERAMIC 15P 5% 50V	D302	ISS132	DIODE
C324	CE04LW0J331H	CAP. ELECTRO 330 20% 6.3V	D303	MTZ3.0JA	ZENER
C325	CE04LW1C101H	CAP. ELECTRO 100 20% 16V	D304	ISS132	DIODE
C401	CE04W2E470M	CAP. ELECTRO 47 20% 250V	D305	ISS132	DIODE
C402	CE04W2E100M	CAP. ELECTRO 10 20% 250V	D306	MA700	DIODE
C403	CE04LW1E220M	CAP. ELECTRO 22 20% 25V	D307	MA700	DIODE
C404	CE04EW2A471M	CAP. ELECTRO 470 20% 100V	D308	TLR112	LED, RED
C405	CE04LW2A220M	CAP. ELECTRO 22 20% 100V	D309	TLR112	LED, RED
C406	CE04EW1E472K	CAP. ELECTRO 4700 20% 25V	D310	HTZ5.1JB	ZENER
C407	CE04LW1C331K	CAP. ELECTRO 330 20% 16V	D311	ISS132	DIODE
C408	CE04EW1E472K	CAP. ELECTRO 4700 20% 25V	D312	ISS132	DIODE
C409	CE04EW1C332K	CAP. ELECTRO 3300 20% 16V	D313	ISS132	DIODE
C410	CE04LW0J471M	CAP. ELECTRO 470 20% 6.3V	D314	NO USE	
C411	CE04LW1C331H	CAP. ELECTRO 330 20% 16V	D315	ISS132	DIODE
C412	CE04LW0J331H	CAP. ELECTRO 330 20% 6.3V	D316	HTZ3.0JA	ZENER
C413	CE04LW1C101H	CAP. ELECTRO 100 20% 16V	D401	S1VB60	DIODE, STACK
C414	CE04LW1C101H	CAP. ELECTRO 100 20% 16V	D402	S1VB60	DIODE, STACK
C415	CE04EW1E102M	CAP. ELECTRO 1000 20% 25V	D403	S4VB20F	DIODE, STACK
C416	CE04EW1E102M	CAP. ELECTRO 1000 20% 25V	D404	S1VB60	DIODE, STACK
C417	C91-0761-05	CAP. CERAMIC 2200P 20% 50V	D405	ISS132	DIODE
C418	C91-0757-05	CAP. CERAMIC 1000P 10% 50V	D406	ISS132	DIODE
C801	C91-0768-05	CAP. CERAMIC 0.01 20% 16V	D407	HTZ13JC	ZENER
C801	CF92V1H103J	CAP. POLYESTER 0.01 5% 50V	D408	HTZ13JC	ZENER
D1	MA700	DIODE	D409	HTZ7.5JA	ZENER
D2	MA700	DIODE	D801	MA700	DIODE
D3	MA700	DIODE	F201	F53-0107-05	THERMAL FUSE 400mA/125V
D4	MA700	DIODE			
D5	MA700	DIODE			
D6	ISS132	DIODE			

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION				REF. NO	PARTS NO	NAME & DESCRIPTION			
JW1	E38-1005-05	WIRE ASS'Y;3P				Q151	2SA1459(K)	TR. SI, PNP			
JW2	E38-1006-05	WIRE ASS'Y;6P				Q152	2SA1459(K)	TR. SI, PNP			
JW8	E38-0988-15	WIRE ASS'Y;H TO V				Q158	2SA1459(K)	TR. SI, PNP			
JW14	E38-0989-05	WIRE ASS'Y;H TO FINAL				Q201	2SA933S(R,S)	TR. SI, PNP			
JW18	E38-0990-05	WIRE ASS'Y;H TO CRT				Q202	2SA933S(R,S)	TR. SI, PNP			
JW19	E38-0991-05	WIRE ASS'Y;H TO BNC				Q203	2SC1923(O)	TR. SI, NPN			
K301	S76-0627-05	RELAY				Q204	2SC1740S(R,S)	TR. SI, NPN			
L101	L79-0553-05	NOISE FILTER				Q205	2SA933S(R,S)	TR. SI, PNP			
L201	L40-1545-06	FERRI INDUCTOR	150MH	5%		Q206	2SC2910(S)	TR. SI, NPN			
L202	L40-1011-04	FERRI INDUCTOR	100UH	10%		Q207	2SA1208(S)	TR. SI, PNP			
L203	L40-1011-04	FERRI INDUCTOR	100UH	10%		Q208	2SC2910(S)	TR. SI, NPN			
L204	L40-3925-05	FERRI INDUCTOR	3.9MH	5%		Q209	2SA1208(S)	TR. SI, PNP			
L301	L40-1001-11	FERRI INDUCTOR	10UH	10%		Q210	2SC2551(O)	TR. SI, NPN			
NL201	NE-38B	NEON LAMP				Q211	2SC2551(O)	TR. SI, NPN			
NL202	NE-38B	NEON LAMP				Q212	2SA933S(R,S)	TR. SI, PNP			
NL203	NE-38B	NEON LAMP				Q213	2SD613(E)	TR. SI, NPN			
P6	E40-7515-05	PIN CONNECTOR	3P			Q301	2SC1740S(R,S)	TR. SI, NPN			
P7	E40-7519-05	PIN CONNECTOR	4P			Q302	2SC1740S(R,S)	TR. SI, NPN			
P8	E40-7040-05	PIN CONNECTOR	13P			Q303	2SC1740S(R,S)	TR. SI, NPN			
P9	NO USE					Q304	2SC1740S(R,S)	TR. SI, NPN			
P10	E40-5066-05	PIN CONNECTOR	9P			Q305	2SA933S(R,S)	TR. SI, PNP			
P15	E40-5067-05	PIN CONNECTOR	10P			Q306	2SA1005(K)	TR. SI, PNP			
P16	E40-5068-05	PIN CONNECTOR	12P			Q307	2SA1005(K)	TR. SI, PNP			
P17	E40-3306-05	PIN CONNECTOR	9P			Q308	2SC1740S(R,S)	TR. SI, NPN			
P20	E40-3289-05	PIN CONNECTOR	2P			Q309	2SC1740S(R,S)	TR. SI, NPN			
P24	E40-3243-05	PIN CONNECTOR	8P			Q310	2SA933S(R,S)	TR. SI, PNP			
Q3	2SC1740S(R,S)	TR. SI, NPN				Q311	2SA933S(R,S)	TR. SI, PNP			
Q4	2SC1923(O)	TR. SI, NPN				Q312	2SC1740S(R,S)	TR. SI, NPN			
Q5	2SC1923(O)	TR. SI, NPN				Q313	2SC1740S(R,S)	TR. SI, NPN			
Q6	2SC3778(D)	TR. SI,,NPN				Q314	2SC1907	TR. SI, NPN			
Q7	2SC3778(D)	TR. SI, NPN				Q315	2SC1907	TR. SI, NPN			
Q8	NO USE					Q316	2SA1459(K)	TR. SI, PNP			
Q9	2SA1459(K)	TR. SI, PNP				Q317	2SA1459(K)	TR. SI, PNP			
Q10	2SC1740S(R,S)	TR. SI, NPN				Q318	2SC1907	TR. SI, NPN			
Q11	2SC1740S(R,S)	TR. SI, NPN				Q319	2SC1907	TR. SI, NPN			
Q12	2SA1005(K)	TR. SI, PNP				Q320	2SC4732(E)	TR. SI, NPN			
Q13	2SC1740S(R,S)	TR. SI, NPN				Q321	2SC4732(E)	TR. SI, NPN			
Q14	2SC1740S(R,S)	TR. SI, NPN				Q322	2SA1828(E)	TR. SI, PNP			
Q15	2SA1005(K)	TR. SI, PNP				Q323	2SA1828(E)	TR. SI, PNP			
Q16	2SA1005(K)	TR. SI, PNP				Q324	2SA933S(R,S)	TR. SI, PNP			
Q17	2SA933S(R,S)	TR. SI, PNP				Q401	2SA1489(P)	TR. SI, PNP			
Q18	2SA933S(R,S)	TR. SI, PNP				Q402	2SC2551(O)	TR. SI, NPN			
Q19	2SC1740S(R,S)	TR. SI, NPN				Q403	2SA1304	TR. SI, PNP			
Q20	2SA933S(R,S)	TR. SI, PNP				Q404	2SC2551(O)	TR. SI, NPN			
Q21	2SC1907	TR. SI, NPN				Q405	2SB1015(Y)	TR. SI, PNP			
Q28	2SA1459(K)	TR. SI, PNP				Q406	2SD1406(Y)	TR. SI, NPN			
Q101	2SK170(Y)	FET, N-CHANNEL				Q407	2SB1015(Y)	TR. SI, PNP			
Q102	2SC1923(O)	TR. SI, NPN				R1	RD14BB2C220J	RES. CARBON	22	5%	1/6W
Q103	2SA933S(R,S)	TR. SI, PNP				R2	RD14BB2C470J	RES. CARBON	47	5%	1/6W
Q104	2SC1740S(R,S)	TR. SI, NPN				R3	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
Q105	2SC1740S(R,S)	TR. SI, NPN				R4	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
Q106	2SC1740S(R,S)	TR. SI, NPN				R5	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
Q107	2SK170(Y)	FET, N-CHANNEL				R6	RD14BB2C822J	RES. CARBON	8.2K	5%	1/6W
Q108	2SC1923(O)	TR. SI, NPN				R7	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
Q109	2SC3066(G)	TR. SI, NPN				R8	RD14BB2C181J	RES. CARBON	180	5%	1/6W
Q110	2SA1459(K)	TR. SI, PNP				R9	RD14BB2C105J	RES. CARBON	1K	5%	1/6W
Q111	2SA933S(R,S)	TR. SI, PNP				R10	RD14BB2C105J	RES. CARBON	1M	5%	1/6W
Q112	2SA933S(R,S)	TR. SI, PNP				R11	RD14BB2C105J	RES. CARBON	1M	5%	1/6W
Q113	2SA1005(K)	TR. SI, PNP				R12	RD14BB2C105J	RES. CARBON	1M	5%	1/6W
Q114	2SA1005(K)	TR. SI, PNP				R13	NO USE				
Q115	2SA1005(K)	TR. SI, PNP				R14	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
Q116	2SA1005(K)	TR. SI, PNP				R15	RD14BB2C220J	RES. CARBON	22	5%	1/6W
Q117	2SC1923(O)	TR. SI, NPN				R16	RD14BB2C751J	RES. CARBON	750	5%	1/6W
Q118	2SC1923(O)	TR. SI, NPN				R17	RD14BB2C821J	RES. CARBON	820	5%	1/6W
Q119	2SA933S(R,S)	TR. SI, PNP				R18	RD14BB2C101J	RES. CARBON	100	5%	1/6W
Q120	2SA1459(K)	TR. SI, PNP				R19	RD14BB2C470J	RES. CARBON	47	5%	1/6W
Q121	2SC1923(O)	TR. SI, NPN				R20	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
Q122	2SC1740S(R,S)	TR. SI, NPN				R21	RD14BB2C473J	RES. CARBON	47K	5%	1/6W
Q123	2SC1740S(R,S)	TR. SI, NPN				R22	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
Q124	2SC1740S(R,S)	TR. SI, NPN				R23	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
Q125	2SC1740S(R,S)	TR. SI, NPN				R24	RD14BB2C622J	RES. CARBON	6.2K	5%	1/6W
Q126	2SC1740S(R,S)	TR. SI, NPN				R25	RD14BB2C512J	RES. CARBON	5.1K	5%	1/6W
Q127	2SA1005(K)	TR. SI, PNP				R26	RD14BB2C331J	RES. CARBON	330	5%	1/6W
						R27	RD14BB2C750J	RES. CARBON	75	5%	1/6W
						R28	RD14BB2C750J	RES. CARBON	75	5%	1/6W
						R29	RD14BB2C680J	RES. CARBON	68	5%	1/6W
						R30	RD14BB2C390J	RES. CARBON	38	5%	1/6W
						R31	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
						R32	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
						R33	RD14BB2C681J	RES. CARBON	680	5%	1/6W
						R34	NO USE				
						R35	RD14BB2C223J	RES. CARBON	22K	5%	1/6W
						R36	NO USE				

PARTS LIST

							REF. NO	PARTS NO	NAME & DESCRIPTION
R37	RD14BB2C391J	RES. CARBON	390	5%	1/6W		R137	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R38	RD14BB2C751J	RES. CARBON	750	5%	1/6W		R138	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R39	R90-0660-05	RES. NETWORK	4X1K				R139	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R40	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R140	RD14BB2C622J	RES. CARBON 6.2K 5% 1/6W
R41	RD14BB2C683J	RES. CARBON	68K	5%	1/6W		R141	RD14BB2C471J	RES. CARBON 470 5% 1/6W
R42	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W		R142	NO USE	
R43	RD14BB2C393J	RES. CARBON	39K	5%	1/6W		R143	RD14BB2C302J	RES. CARBON 3K 5% 1/6W
R44	RD14BB2C221J	RES. CARBON	220	5%	1/6W		R144	RD14BB2C302J	RES. CARBON 3K 5% 1/6W
R45	RD14BB2C163J	RES. CARBON	16K	5%	1/6W		R145	RD14BB2C131J	RES. CARBON 130 5% 1/6W
R46	RD14BB2C752J	RES. CARBON	7.5K	5%	1/6W		R146	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W
R47	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W		R147	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R48	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W		R148	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R49	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W		R149	RD14BB2C183J	RES. CARBON 18K 5% 1/6W
R50	RD14BB2C393J	RES. CARBON	39K	5%	1/6W		R150	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R51	RD14BB2C123J	RES. CARBON	12K	5%	1/6W		R151	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R52	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R152	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R53	RD14BB2C113J	RES. CARBON	11K	5%	1/6W		R153	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R54	RD14BB2C104J	RES. CARBON	100K	5%	1/6W		R154	RD14BB2C684J	RES. CARBON 680K 5% 1/6W
R55	RD14BB2C221J	RES. CARBON	220	5%	1/6W		R155	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R56	RD14BB2C182J	RES. CARBON	1.8K	5%	1/6W		R156	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
R57	RD14BB2C272J	RES. CARBON	2.7K	5%	1/6W		R157	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R58	RD14BB2C103J	RES. CARBON	10K	5%	1/6W		R158	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R59	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R159	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R60	RD14BB2C103J	RES. CARBON	10K	5%	1/6W		R160	RD14BB2C202J	RES. CARBON 2K 5% 1/6W
R61	RD14BB2C102J	RES. CARBON	1K	5%	1/6W		R161	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R62	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R162	RD14BB2C202J	RES. CARBON 2K 5% 1/6W
R63	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R163	RD14BB2C151J	RES. CARBON 150 5% 1/6W
R64	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R164	RD14BB2C111J	RES. CARBON 110 5% 1/6W
R65	RD14BB2C102J	RES. CARBON	1K	5%	1/6W		R165	RD14BB2C681J	RES. CARBON 680 5% 1/6W
R66	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R166	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R67	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W		R167	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R68	RD14BB2C105J	RES. CARBON	1K	5%	1/6W		R168	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R69	RD14BB2C103J	RES. CARBON	10K	5%	1/6W		R169	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R70	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R170	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R71	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R171	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R72	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R172	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R73	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R173	RD14BB2C431J	RES. CARBON 430 5% 1/6W
R74	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W		R174	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R75	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W		R175	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R76	NO USE						R176	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R77	RD14BB2C752J	RES. CARBON	7.5K	5%	1/6W		R177	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R78	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R178	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R79	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R179	RD14BB2C242J	RES. CARBON 2.4K 5% 1/6W
R80	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R180	RD14BB2C122J	RES. CARBON 1.2K 5% 1/6W
R81	RD14BB2C103J	RES. CARBON	10K	5%	1/6W		R181	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R82	RD14BB2C103J	RES. CARBON	10K	5%	1/6W		R182	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R83	RD14BB2E223J	RES. CARBON	22K	5%	1/4W		R183	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R84	RD14BB2C103J	RES. CARBON	10K	5%	1/6W		R184	RD14BB2C621J	RES. CARBON 620 5% 1/6W
R85	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R185	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R86	RD14BB2C104J	RES. CARBON	100K	5%	1/6W		R186	RD14BB2C202J	RES. CARBON 2K 5% 1/6W
R87	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W		R187	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R88	RD14BB2C470J	RES. CARBON	47	5%	1/6W		R188	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R89	NO USE						R189	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R90	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R190	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W
R91	RD14BB2C203J	RES. CARBON	20K	5%	1/6W		R191	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W
R101	RD14BB2C220J	RES. CARBON	22	5%	1/6W		R192	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R102	RD14BB2C220J	RES. CARBON	22	5%	1/6W		R193	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R103	RD14BB2C102J	RES. CARBON	1K	5%	1/6W		R194	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R104	RD14BB2C103J	RES. CARBON	10K	5%	1/6W		R195	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R105	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W		R196	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R106	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W		R197	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R107	RD14BB2C912J	RES. CARBON	9.1K	5%	1/6W		R198	RD14BB2C471J	RES. CARBON 470 5% 1/6W
R108	RD14BB2C163J	RES. CARBON	16K	5%	1/6W		R199	RD14BB2C473J	RES. CARBON 47K 5% 1/6W
R109	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R200	RD14BB2C113J	RES. CARBON 11K 5% 1/6W
R110	RD14BB2C102J	RES. CARBON	1K	5%	1/6W		R203	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R111	RD14BB2C101J	RES. CARBON	100	5%	1/6W		R204	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W
R112	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R205	NO USE	
R113	RD14BB2C101J	RES. CARBON	100	5%	1/6W		R206	RD14BB2C432J	RES. CARBON 4.3K 5% 1/6W
R114	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R207	RD14BB2C152J	RES. CARBON 1.5K 5% 1/6W
R115	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R208	RD14BB2C512J	RES. CARBON 5.1K 5% 1/6W
R116	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R209	RD14BB2C202J	RES. CARBON 2K 5% 1/6W
R117	RD14BB2C473J	RES. CARBON	47K	5%	1/6W		R210	RD14BB2C333J	RES. CARBON 33K 5% 1/6W
R118	RD14BB2C162J	RES. CARBON	1.6K	5%	1/6W		R214	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R119	RD14BB2C243J	RES. CARBON	24K	5%	1/6W		R215	RD14BB2C431J	RES. CARBON 430 5% 1/6W
R120	RD14BB2C103J	RES. CARBON	10K	5%	1/6W		R216	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W
R121	RD14BB2C220J	RES. CARBON	22	5%	1/6W		R217	NO USE	
R122	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R218	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R123	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R219	RD14BB2C134J	RES. CARBON 130K 5% 1/6W
R124	RD14BB2C223J	RES. CARBON	22K	5%	1/6W		R220	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R125	RD14BB2C330J	RES. CARBON	33	5%	1/6W		R221	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R126	RD14BB2C120J	RES. CARBON	12	5%	1/6W		R222	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R127	RD14BB2E222J	RES. CARBON	2.2K	5%	1/4W		R223	RD14BB2C152J	RES. CARBON 1.5K 5% 1/6W
R128	RD14BB2E471J	RES. CARBON	470	5%	1/4W		R224	RD14BB2C562J	RES. CARBON 5.6K 5% 1/6W
R129	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W		R225	RD14BB2C134J	RES. CARBON 130K 5% 1/6W
R130	RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W		R226	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R131	RD14BB2C812J	RES. CARBON	9.1K	5%	1/6W		R227	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R132	RD14BB2C163J	RES. CARBON	16K	5%	1/6W		R228	RD14BB2C753J	RES. CARBON 75K 5% 1/6W
R133	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W		R229	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R134	RD14BB2C102J	RES. CARBON	1K	5%	1/6W		R230	RD14BB2C152J	RES. CARBON 1.5K 5% 1/6W
R135	RD14BB2C102J	RES. CARBON	1K	5%	1/6W				
R136	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W				

PARTS LIST

REF. NO.	PARTS NO	NAME & DESCRIPTION	REF. NO.	PARTS NO	NAME & DESCRIPTION
R231	RD14BB2C562J	RES. CARBON 5.6K 5% 1/6W	R351	NO USE	
R232	RD14BB2C134J	RES. CARBON 130K 5% 1/6W	R352	RD14BB2C153J	RES. CARBON 15K 5% 1/6W
R233	RD14BB2C470J	RES. CARBON 47 5% 1/6W	R353	RD14BB2C242J	RES. CARBON 2.4K 5% 1/6W
R234	RD14BB2C474J	RES. CARBON 470K 5% 1/6W	R354	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R235	RD14BB2C474J	RES. CARBON 470K 5% 1/6W	R355	RD14BB2C391J	RES. CARBON 390 5% 1/6W
R236	R92-1563-05	RES. METALGLACE 10M 5% 1/4W	R356	NO USE	
R237	R92-1563-05	RES. METALGLACE 10M 5% 1/4W	R357	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R238	R92-1562-05	RES. METALGLACE 8.2M 5% 1/4W	R358	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R239	R92-1561-05	RES. METALGLACE 3.9M 5% 1/4W	R359	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R240	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R360	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R241	RD14BB2C474J	RES. CARBON 470K 5% 1/6W	R361	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R242	RD14BB2C683J	RES. CARBON 68K 5% 1/6W	R362	RD14BB2C122J	RES. CARBON 1.2K 5% 1/6W
R243	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R363	RD14BB2C122J	RES. CARBON 1.2K 5% 1/6W
R244	RD14BB2C104J	RES. CARBON 100K 5% 1/6W	R364	RN14BK2C3901F	RES. METAL FILM 3.9K 1% 1/6W
R245	RD14BB2C473J	RES. CARBON 47K 5% 1/6W	R365	RN14BK2C6201F	RES. METAL FILM 6.2K 1% 1/6W
R246	RD14BB2C473J	RES. CARBON 47K 5% 1/6W	R366	R92-1560-05	RES. LINEAR PCT 2K
R247	RD14BB2C473J	RES. CARBON 47K 5% 1/6W	R367	RD14BB2C393J	RES. CARBON 39K 5% 1/6W
R248	RN14BK2C1203F	RES. METAL FILM 120K 1% 1/6W	R368	RD14BB2C622J	RES. CARBON 6.2K 5% 1/6W
R249	R92-1564-05	RES. METALGLACE 15M 1% 1/2W	R369	RD14BB2C204J	RES. CARBON 200K 5% 1/6W
R250	RD14BB2C124J	RES. CARBON 120K 5% 1/6W	R370	RD14BB2C302J	RES. CARBON 3K 5% 1/6W
R251	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R371	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R252	RD14BB2C392J	RES. CARBON 3.9K 5% 1/6W	R372	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R253	RD14BB2C153J	RES. CARBON 15K 5% 1/6W	R373	RD14BB2C152J	RES. CARBON 1.5K 5% 1/6W
R254	RD14BB2C221J	RES. CARBON 220 5% 1/6W	R374	RD14BB2C152J	RES. CARBON 1.5K 5% 1/6W
R255	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R375	RD14BB2C362J	RES. CARBON 3.6K 5% 1/6W
R256	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R376	RD14BB2C362J	RES. CARBON 3.6K 5% 1/6W
R257	RD14BB2C151J	RES. CARBON 150 5% 1/6W	R377	R92-1558-05	RES. SPECIAL POWER 39K 5% 1W
R258	RD14BB2C302J	RES. CARBON 3K 5% 1/6W	R378	R92-1558-05	RES. SPECIAL POWER 39K 5% 1W
R259	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W			
R260	RN14BK2C1801F	RES. METAL FILM 1.8K 1% 1/6W	R381	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R261	RN14BK2C1801F	RES. METAL FILM 1.8K 1% 1/6W	R382	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R262	RD14BB2C362J	RES. CARBON 3.6K 5% 1/6W	R383	RD14BB2C751J	RES. CARBON 750 5% 1/6W
R263	RD14BB2C562J	RES. CARBON 5.6K 5% 1/6W	R384	RD14BB2C751J	RES. CARBON 750 5% 1/6W
R264	RD14BB2C303J	RES. CARBON 30K 5% 1/6W	R385	RN14BK2C6801F	RES. METAL FILM 6.8K 1% 1/6W
R265	RD14BB2C562J	RES. CARBON 5.6K 5% 1/6W	R386	RN14BK2C1303F	RES. METAL FILM 130K 1% 1/6W
R266	RD14BB2C103J	RES. CARBON 10K 5% 1/6W	R387	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R267	RD14BB2C224J	RES. CARBON 220K 5% 1/6W	R388	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R268	RD14BB2C204J	RES. CARBON 200K 5% 1/6W	R389	NO USE	
R269	R92-1573-05	RES. LINEAR PCT 2.7K 5% 1/6W	R390	RD14BB2C913J	RES. CARBON 91K 5% 1/6W
R300	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R394	R92-1559-05	RES. SPECIAL POWER 47K 5% 1W
R301	RD14BB2C221J	RES. CARBON 220 5% 1/6W	R395	R92-1559-05	RES. SPECIAL POWER 47K 5% 1W
R302	RD14BB2C821J	RES. CARBON 820 5% 1/6W	R396	RD14BB2C431J	RES. CARBON 430 5% 1/6W
R303	RD14BB2C821J	RES. CARBON 820 5% 1/6W	R397	RD14BB2C162J	RES. CARBON 1.6K 5% 1/6W
R304	RD14BB2C122J	RES. CARBON 1.2K 5% 1/6W	R398	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R305	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R399	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R306	RD14BB2C104J	RES. CARBON 100K 5% 1/6W	R400	NO USE	
R307	RD14BB2C202J	RES. CARBON 2K 5% 1/6W	R401	R92-1557-05	RES. SPECIAL POWER 6.8K 5% 2W
R308	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R402	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R309	RD14BB2C242J	RES. CARBON 2.4K 5% 1/6W	R403	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R310	RD14BB2C242J	RES. CARBON 2.4K 5% 1/6W	R404	R92-1556-05	RES. SPECIAL POWER 1K 5% 2W
R311	RD14BB2C362J	RES. CARBON 3.6K 5% 1/6W	R405	R92-1556-05	RES. SPECIAL POWER 1K 5% 2W
R312	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R406	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R313	RD14BB2C182J	RES. CARBON 1.8K 5% 1/6W	R407	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R314	RD14BB2C432J	RES. CARBON 4.3K 5% 1/6W	R408	R92-1555-05	RES. SPECIAL POWER 56 5% 2W
R315	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W	R409	R92-1555-05	RES. SPECIAL POWER 56 5% 2W
R316	RD14BB2C153J	RES. CARBON 15K 5% 1/6W	R410	R92-1555-05	RES. SPECIAL POWER 56 5% 2W
R317	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W	R411	R92-1555-05	RES. SPECIAL POWER 56 5% 2W
R318	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W	R412	R92-1555-05	RES. SPECIAL POWER 56 5% 2W
R319	RD14BB2C202J	RES. CARBON 2K 5% 1/6W	R413	R92-1555-05	RES. SPECIAL POWER 56 5% 2W
R320	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W	R414	R92-1554-05	RES. SPECIAL POWER 15 5% 2W
R321	RD14BB2C183J	RES. CARBON 18K 5% 1/6W	R415	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R322	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R416	RD14BB2C302J	RES. CARBON 3K 5% 1/6W
R323	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R417	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R324	RD14BB2C242J	RES. CARBON 2.4K 5% 1/6W			
R325	RD14BB2C812J	RES. CARBON 9.1K 5% 1/6W	TC101	C05-0470-05	CAP. TRIMMER 20P
R326	RD14BB2C301J	RES. CARBON 300 5% 1/6W	TC102	C05-0470-05	CAP. TRIMMER 20P
R327	RD14BB2C391J	RES. CARBON 390 5% 1/6W	TC303	C05-0490-05	CAP. TRIMMER 20P
R328	RD14BB2C391J	RES. CARBON 390 5% 1/6W	TH301	112-103-2FM	THERMISTOR
R329	RD14BB2C390J	RES. CARBON 39 5% 1/6W	U1	TC4053BP	IC,TRIPLE 2-CH MPX/DE-MPX
R330	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	U2	NJH072BD	IC,JFET INPUT OP AMP
R331	RD14BB2C271J	RES. CARBON 270 5% 1/6W	U3	HC10H102L	IC,GATE FUNCTION
R332	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W	U4	KNS01	IC,LINEAR
R333	RD14BB2C432J	RES. CARBON 4.3K 5% 1/6W	U101	HC10H131L	IC,DUAL D-FILP FLOP
R334	RD14BB2C432J	RES. CARBON 4.3K 5% 1/6W	U102	KHD05	IC,LINEAR
R335	RD14BB2C243J	RES. CARBON 24K 5% 1/6W	U103	SN74ALS74AN	IC,DUAL D-F.F. (WITH PR&CLR)
R336	RD14BB2C243J	RES. CARBON 24K 5% 1/6W	U104	KNS01	IC,LINEAR
R337	RD14BB2C241J	RES. CARBON 240 5% 1/6W	U105	KHD05	IC,LINEAR
R338	RD14BB2C241J	RES. CARBON 240 5% 1/6W	U106	SN74ALS02N	IC,QUAD 2 INPUT NOR
R339	NO USE		U107	KNS01	IC,LINEAR
R340	RN14BK2C8200F	RES. METAL FILM 820 1% 1/6W	U108	SN74ALS74AN	IC,DUAL D-F.F. (WITH PR&CLR)
R341	RN14BK2C8200F	RES. METAL FILM 820 1% 1/6W	U109	TC74HC4053AP	IC,TRIPLE 2-CH ANALOG MPX
R342	RD14BB2C912J	RES. CARBON 9.1K 5% 1/6W	U201	NJH4558D	IC,DUAL OP-AMP
R343	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W	U301	TC74HC4053AP	IC,TRIPLE 2-CH ANALOG MPX
R344	RD14BB2C101J	RES. CARBON 100 5% 1/6W	U302	KHG01	IC,LINEAR
R345	RD14BB2C101J	RES. CARBON 100 5% 1/6W			
R346	RD14BB2C561J	RES. CARBON 560 5% 1/6W			
R347	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W			
R348	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W			
R349	R92-1552-05	RES. LINEAR PCT 180			
R350	RD14BB2C163J	RES. CARBON 16K 5% 1/6W			

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION	REF. NO	PARTS NO	NAME & DESCRIPTION
U401	KMA02	IC, LINEAR	C114	CE04LW1A220M	CAP. ELECTRO 22 20% 10V
VR1	R12-0680-05	RES. SEMI FIXED 47K	C115	C91-2604-05	CAP. CERAMIC 390P 5% 50V
VR2	R12-0680-05	RES. SEMI FIXED 47K	C116	C91-2598-05	CAP. CERAMIC 120P 5% 50V
VR102	R12-0694-05	RES. SEMI FIXED 4.7KB	C117	CC45FCH1H680J	CAP. CERAMIC 68P 5% 50V
VR103	R12-0680-05	RES. SEMI FIXED 47K	C118	CC45FCH1H680J	CAP. CERAMIC 68P 5% 50V
VR104	R12-1860-05	RES. SEMI FIXED 1KB	C119	NO USE	
VR201	R12-5545-05	RES. SEMI FIXED 2.2MB	C120	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
VR202	R12-6507-05	RES. SEMI FIXED 470K	C121	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
VR301	R12-0680-05	RES. SEMI FIXED 47K	C122	CC45FCH1H390J	CAP. CERAMIC 39P 5% 50V
VR302	R12-0882-05	RES. SEMI FIXED 100B	C123	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
VR303	R12-0678-05	RES. SEMI FIXED 10KB	C124	C91-2582-05	CAP. POLYESTER 0.47 5% 100V
VR304	R12-0684-05	RES. SEMI FIXED 4.7KB	C125	CE04LW0J331M	CAP. ELECTRO 330 20% 6.3V
VR305	R12-6501-05	RES. SEMI FIXED 470KB	C126	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
VR306	R12-0680-05	RES. SEMI FIXED 47K	C127	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
VR307	R12-0680-05	RES. SEMI FIXED 47K	C128	C91-2538-05	CAP. MYLAR 0.1 63V
VR308	R12-0890-05	RES. SEMI FIXED 470B	C129	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
VR309	R12-0883-05	RES. SEMI FIXED 220B	C132	CC45FCH1H030C	CAP. CERAMIC 3P 0.25P 50V
W201	W02-2256-05	HIGH VOLTAGE BLOCK	C135	CE04LW0J331M	CAP. ELECTRO 330 20% 6.3V
			C136	CE04LW0J331M	CAP. ELECTRO 330 20% 6.3V
			C137	CE04LW0J331M	CAP. ELECTRO 330 20% 6.3V
			C138	CE04LW1C101M	CAP. ELECTRO 100 20% 16V
			C139	CC45FSL1H331J	CAP. CERAMIC 330P 5% 50V
			C140	CC45FCH1H470J	CAP. CERAMIC 47P 5% 50V
			C141	CC45FCH1H470J	CAP. CERAMIC 47P 5% 50V
			C142	CC45FCH1H470J	CAP. CERAMIC 47P 5% 50V
			C143	C91-0737-05	CAP. CERAMIC 47P 5% 50V
			C144	C91-0737-05	CAP. CERAMIC 47P 5% 50V
			C145	CE04LW1C100M	CAP. ELECTRO 10 20% 16V
			C146	CC45FSL1H030C	CAP. CERAMIC 3P 0.25P 50V
			C201	CC45FCH1H070D	CAP. CERAMIC 7P 0.5P 50V
			C202	NO USE	
			C203	CC45FCH1H120J	CAP. CERAMIC 12P 5% 50V
			C204	NO USE	
			C205	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
			C206	NO USE	
			C207	CK45B2H472K	CAP. CERAMIC 4700P 10% 500V
			C208	CE04W2E010M	CAP. ELECTRO 1 20% 250V
			C209	CC45FCH2H020C	CAP. CERAMIC 2P 0.25P 500V
			C210	CK45B2H472K	CAP. CERAMIC 4700P 10% 500V
			C211	CE04W2E010M	CAP. ELECTRO 1 20% 250V
			C212	CE04W2E010M	CAP. ELECTRO 1 20% 250V
			C213	CK45FB2H102K	CAP. CERAMIC 1000P 10% 500V
			C214	CK45FB2H102K	CAP. CERAMIC 1000P 10% 500V
			C215	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K
			C216	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K
			C217	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K
			C218	CE04W2E010M	CAP. ELECTRO 1 20% 250V
			C219	NO USE	
			C220	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K
			C221	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K
			C222	CE04LW1E221M	CAP. ELECTRO 220 20% 25V
			C223	CE04LW1H101M	CAP. ELECTRO 100 20% 50V
			C224	CK45FB1H472K	CAP. CERAMIC 4700P 10% 50V
			C227	CC45FCH2H101J	CAP. CERAMIC 100P 5% 500V
			C228	CK45FB1H222K	CAP. CERAMIC 2200P 10% 50V
			C229	C91-1317-05	CAP. CERAMIC 0.01 80/-20% 2K
			C230	CK45E3D102P	CAP. CERAMIC 1000P 2KV
			C231	C91-2581-05	CAP. CERAMIC 0.01 5% 2KV
			C232	CE04W2E010M	CAP. ELECTRO 1 20% 250V
			C233	CE04LW1C101M	CAP. ELECTRO 100 20% 16V
			C234	CE04LW1C101M	CAP. ELECTRO 100 20% 16V
			C301	CC45FCH1H101J	CAP. CERAMIC 100P 5% 50V
			C302	CC45FSL1H331J	CAP. CERAMIC 330P 5% 50V
			C303	C91-0713-05	CAP. CERAMIC 2.2 10% 50V
			C306	C91-1361-05	CAP. MYLAR 0.01 10% 100V
			C307	C91-2585-05	CAP. MYLAR 0.01 10% 250V
			C308	C91-2587-05	CAP. MYLAR 0.1 10% 250V
			C309	C91-1361-05	CAP. MYLAR 0.01 10% 100V
			C310	C91-2587-05	CAP. MYLAR 0.1 10% 250V
			C311	C91-2585-05	CAP. MYLAR 0.01 10% 250V
			C314	CK45FB2H152K	CAP. CERAMIC 1500P 10% 500V
			C315	NO USE	
			C316	CE04LW0J331M	CAP. ELECTRO 330 20% 6.3V
			C317	NO USE	
			C318	CC45FCH1H020C	CAP. CERAMIC 2P 0.25P 50V
			C319	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
			C320	NO USE	
			C321	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
			C322	CE04LW1A221M	CAP. ELECTRO 220 20% 10V
			C323	CC45FCH1H150J	CAP. CERAMIC 15P 5% 50V
			C324	CE04LW0J331M	CAP. ELECTRO 330 20% 6.3V
			C325	CE04LW1C101M	CAP. ELECTRO 100 20% 16V
			C401	CE04W2E470M	CAP. ELECTRO 47 20% 250V

CS-5265 HORIZONTAL UNIT

X74-1580-03

REF. NO	PARTS NO	NAME & DESCRIPTION
E23-0149-05	GND TERMINAL	
E23-0057-14	EARTH LUG, THERMAL FUSE	
F01-0867-05	HEAT SINK, HIGH VOLTAGE	
F01-2316-05	HEAT SINK, POWER	
J73-0284-22	PCB (UNHOUNTED)	
N09-0623-04	SCREW, SEMS PAN HD M3X8	
C1	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C2	NO USE	
C3	C91-2595-05	CAP. CERAMIC 68P 5% 50V
C4	CF92FV1H103J	CAP. POLYESTER 0.01 5% 50V
C5	C91-2596-05	CAP. CERAMIC 82P 5% 50V
C6	CC45FCH1H470J	CAP. CERAMIC 47P 5% 50V
C7	CC45FCH1H010C	CAP. CERAMIC 1P 0.25P 50V
C8	CC45FCH1H070D	CAP. CERAMIC 7P 0.5P 50V
C9	NO USE	
C10	CK45FB1H222K	CAP. CERAMIC 2200P 10% 50V
C11	C91-0757-05	CAP. CERAMIC 1000P 10% 50V
C12	C91-2538-05	CAP. MYLAR 0.1 63V
C13	C91-2593-05	CAP. CERAMIC 47P 5% 50V
C14	CC45FCH1H101J	CAP. CERAMIC 100P 5% 50V
C15	NO USE	
C16	CE04LW1E100M	CAP. ELECTRO 10 20% 25V
C17	CE04LW1H010M	CAP. ELECTRO 1 20% 50V
C18	CE04LW1H010M	CAP. ELECTRO 1 20% 50V
C19	CF92FV1H682J	CAP. POLYESTER 6800P 5% 50V
C20	CF92FV1H222J	CAP. POLYESTER 2200P 5% 50V
C21	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C22	CE04HW1H010M	CAP. ELECTRO 1 20% 50V
C23	CE04HW1H010M	CAP. ELECTRO 1 20% 50V
C24	NO USE	
C25	CE04LW1E100M	CAP. ELECTRO 10 20% 25V
C26	CF92FV1H684J	CAP. POLYESTER 0.68 5% 50V
C27	CF92FV1H684J	CAP. POLYESTER 0.68 5% 50V
C28	CE04HW1E220M	CAP. ELECTRO 22 20% 25V
C29	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C30	C91-2538-05	CAP. MYLAR 0.1 63V
C31	CE04LW0J331M	CAP. ELECTRO 330 20% 6.3V
C32	CE04EW1A101M	CAP. ELECTRO 100 20% 10V
C33	CC45FCH1H020C	CAP. CERAMIC 2P 0.25P 50V
C34	CE04LW1C331M	CAP. ELECTRO 330 20% 16V
C37	CC45FSL1H221J	CAP. CERAMIC 220P 5% 50V
C38	C91-0745-05	CAP. CERAMIC 100P 10% 50V
C39	C91-0745-05	CAP. CERAMIC 100P 10% 50V
C101	CC45FCH1H470J	CAP. CERAMIC 47P 5% 50V
C102	CC45FCH1H470J	CAP. CERAMIC 47P 5% 50V
C103	CF92FV1H332J	CAP. POLYESTER 3300P 5% 50V
C104	C91-2582-05	CAP. POLYESTER 0.47 5% 100V
C105	CC45FCH1H220J	CAP. CERAMIC 22P 5% 50V
C106	CK45FB1H102K	CAP. CERAMIC 1000P 10% 50V
C107	CE04HW1H2R2M	CAP. ELECTRO 2.2 20% 50V
C108	CC45FCH1H101J	CAP. CERAMIC 100P 5% 50V
C109	NO USE	
C110	CC45FCH1H470J	CAP. CERAMIC 47P 5% 50V
C111	CF92FV1H104J	CAP. POLYESTER 0.1 5% 50V
C112	CC45FCH1H220J	CAP. CERAMIC 22P 5% 50V
C113	CC45FCH1H330J	CAP. CERAMIC 33P 5% 50V

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION	REF. NO	PARTS NO	NAME & DESCRIPTION
C402	CE04W2E100M	CAP. ELECTRO 10 20% 250V	D303	MTZ3.0JA	DIODE, ZENER
C403	CE04LW1E220M	CAP. ELECTRO 22 20% 25V	D304	ISS132	DIODE
C404	CE04EW2A471M	CAP. ELECTRO 470 20% 100V	D305	ISS132	DIODE
C405	CE04LW2A220M	CAP. ELECTRO 22 20% 100V	D306	MA700	DIODE
C406	CE04EW1E472M	CAP. ELECTRO 4700 20% 25V	D307	MA700	DIODE
C407	CE04LW1C331M	CAP. ELECTRO 330 20% 16V	D308	TLR112	LED, RED
C408	CE04EW1E472M	CAP. ELECTRO 4700 20% 25V	D309	TLR112	LED, RED
C409	CE04EW1C332M	CAP. ELECTRO 3300 20% 16V			
C410	CE04LW0J471M	CAP. ELECTRO 470 20% 6.3V	D312	MTZ5.1JB	DIODE, ZENER
C411	CE04LW1C331M	CAP. ELECTRO 330 20% 16V	D313	ISS132	DIODE
C412	CE04LW0J331M	CAP. ELECTRO 330 20% 6.3V	D314	NO USE	
C413	CE04LW1C101M	CAP. ELECTRO 100 20% 16V	D315	ISS132	DIODE
C414	CE04LW1C101M	CAP. ELECTRO 100 20% 16V	D316	MTZ3.0JA	DIODE, ZENER
C415	CE04EW1E102M	CAP. ELECTRO 1000 20% 25V	D401	S1VB60	DIODE, STACK
C416	CE04EW1E102M	CAP. ELECTRO 1000 20% 25V	D402	S1VB60	DIODE, STACK
C417	C81-0761-05	CAP. CERAMIC 2200P 20% 50V	D403	S4VB20F	DIODE, STACK
C418	C81-0757-05	CAP. CERAMIC 1000P 10% 50V	D404	S1VB60	DIODE, STACK
C801	C81-0769-05	CAP. CERAMIC 0.01 20% 16V	D405	ISS132	DIODE
C801	CF92V1H103J	CAP. POLYESTER 0.01 5% 50V	D406	ISS132	DIODE
D1	MA700	DIODE	D407	MTZ13JC	DIODE, ZENER
D2	MA700	DIODE	D408	MTZ13JC	DIODE, ZENER
D3	MA700	DIODE	D409	MTZ7.5JA	DIODE, ZENER
D4	MA700	DIODE	D801	MA700	DIODE
D5	MA700	DIODE	F201	F53-0107-05	THERMAL FUSE 400MA/125V
D6	ISS132	DIODE	JW1	E38-1005-05	WIRE ASS'Y; 3P
D7	ISS132	DIODE	JW2	E38-1006-05	WIRE ASS'Y; 6P
D8	ISS132	DIODE	JW9	E38-0888-15	WIRE ASS'Y; H TO V
D9	ISS132	DIODE	JW14	E38-0889-05	WIRE ASS'Y; H TO FINAL
D10	ISS132	DIODE	JW18	E38-0880-05	WIRE ASS'Y; H TO CRT
D11	ISS132	DIODE	JW19	E38-0991-05	WIRE ASS'Y; H TO BNC
D12	MA700	DIODE	K301	S76-0627-05	RELAY
D13	ISS132	DIODE	L101	L79-0553-05	NOISE FILTER
D14	ISS132	DIODE	L201	L40-1545-06	FERRI INDUCTOR 150MH 5%
D15	ISS132	DIODE	L202	L40-1011-04	FERRI INDUCTOR 100UH 10%
D16	ISS132	DIODE	L203	L40-1011-04	FERRI INDUCTOR 100UH 10%
D17	ISS132	DIODE	L204	L40-3825-05	FERRI INDUCTOR 3.9MH 5%
D18	ISS132	DIODE	L301	L40-1001-11	FERRI INDUCTOR 10UH 10%
D101	ISS132	DIODE	NL201	NE-38B	NEON LAMP
D102	ISS132	DIODE	NL202	NE-38B	NEON LAMP
D103	ISS132	DIODE	NL203	NE-38B	NEON LAMP
D104	ISS132	DIODE	NL204	NE-38B	NEON LAMP
D105	ISS132	DIODE	P6	E40-7515-05	PIN CONNECTOR 3P
D106	ISS132	DIODE	P7	E40-7518-05	PIN CONNECTOR 4P
D107	ISS132	DIODE	P8	E40-7040-05	PIN CONNECTOR 13P
D108	ISS132	DIODE	P9	NO USE	
D109	MA700	DIODE	P10	E40-5066-05	PIN CONNECTOR 8P
D110	ISS132	DIODE	P15	E40-5067-05	PIN CONNECTOR 10P
D111	NO USE		P16	E40-5069-05	PIN CONNECTOR 12P
D112	ISS132	DIODE	P17	E40-3306-05	PIN CONNECTOR 9P
D113	ISS132	DIODE	P20	E40-3299-05	PIN CONNECTOR 2P
D114	MA700	DIODE	Q3	2SC1740S(R,S)	TR. SI, NPN
D115	ISS132	DIODE	Q4	2SC1923(0)	TR. SI, NPN
D116	NO USE		Q5	2SC1923(0)	TR. SI, NPN
D117	ISS132	DIODE	Q6	2SC3778(D)	TR. SI, NPN
D118	ISS132	DIODE	Q7	2SC3778(D)	TR. SI, NPN
D119	ISS132	DIODE	Q8	NO USE	
D120	ISS132	DIODE	Q9	2SA1458(K)	TR. SI, PNP
D121	ISS132	DIODE	Q10	2SC1740S(R,S)	TR. SI, NPN
D122	ISS132	DIODE	Q11	2SC1740S(R,S)	TR. SI, NPN
D123	ISS132	DIODE	Q12	2SA1005(K)	TR. SI, PNP
D124	ISS132	DIODE	Q13	2SC1740S(R,S)	TR. SI, NPN
D125	ISS132	DIODE	Q14	2SC1740S(R,S)	TR. SI, NPN
D126	ISS132	DIODE	Q15	2SA1005(K)	TR. SI, PNP
D127	ISS132	DIODE	Q16	2SA1005(K)	TR. SI, PNP
D128	ISS132	DIODE	Q17	2SA933S(R,S)	TR. SI, PNP
D129	ISS132	DIODE	Q18	2SA933S(R,S)	TR. SI, PNP
D130	MA700	DIODE	Q19	2SC1740S(R,S)	TR. SI, NPN
D131	NO USE		Q20	2SA933S(R,S)	TR. SI, PNP
D132	MA700	DIODE	Q21	2SC1907	TR. SI, NPN
D133	MA700	DIODE	Q28	2SA1458(K)	TR. SI, PNP
D201	ISS132	DIODE	Q101	2SK170(Y)	FET, N-CHANNEL
D202	ISS132	DIODE	Q102	2SC1923(0)	TR. SI, NPN
D203	ISS83	DIODE	Q103	2SA933S(R,S)	TR. SI, PNP
D204	ISS83	DIODE			
D205	ISS83	DIODE			
D206	ISS83	DIODE			
D207	ISS83	DIODE			
D208	ISS83	DIODE			
D209	ISS83	DIODE			
D210	ISS83	DIODE			
D211	ISS132	DIODE			
D212	ISS132	DIODE			
D213	ISS132	DIODE			
D301	MA700	DIODE			
D302	ISS132	DIODE			

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION	REF. NO	PARTS NO	NAME & DESCRIPTION
Q104	2SC1740S(R,S)	TR. SI, NPN	R19	RD14BB2C470J	RES. CARBON 47 5% 1/6W
Q105	2SC1740S(R,S)	TR. SI, NPN	R20	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
Q106	2SC1740S(R,S)	TR. SI, NPN	R21	RD14BB2C473J	RES. CARBON 47K 5% 1/6W
Q107	2SK170(Y)	FET, N-CHANNEL	R22	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
Q108	2SC1923(O)	TR. SI, NPN	R23	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
Q109	2SC3066(G)	TR. SI, NPN	R24	RD14BB2C622J	RES. CARBON 6.2K 5% 1/6W
Q110	2SA1459(K)	TR. SI, PNP	R25	RD14BB2C512J	RES. CARBON 5.1K 5% 1/6W
Q111	2SA933S(R,S)	TR. SI, PNP	R26	RD14BB2C331J	RES. CARBON 330 5% 1/6W
Q112	2SA933S(R,S)	TR. SI, PNP	R27	RD14BB2C750J	RES. CARBON 75 5% 1/6W
Q113	2SA1005(K)	TR. SI, PNP	R28	RD14BB2C750J	RES. CARBON 75 5% 1/6W
Q114	2SA1005(K)	TR. SI, PNP	R29	RD14BB2C680J	RES. CARBON 68 5% 1/6W
Q115	2SA1005(K)	TR. SI, PNP	R30	RD14BB2C390J	RES. CARBON 39 5% 1/6W
Q116	2SA1005(K)	TR. SI, PNP	R31	RD14BB2C122J	RES. CARBON 1.2K 5% 1/6W
Q117	2SC1923(O)	TR. SI, NPN	R32	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
Q118	2SC1923(O)	TR. SI, NPN	R33	RD14BB2C681J	RES. CARBON 680 5% 1/6W
Q119	2SA933S(R,S)	TR. SI, PNP	R34	NO USE	
Q120	2SA1458(K)	TR. SI, PNP	R35	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q121	2SC1923(O)	TR. SI, NPN	R36	NO USE	
Q122	2SC1740S(R,S)	TR. SI, NPN	R37	RD14BB2C391J	RES. CARBON 390 5% 1/6W
Q123	2SC1740S(R,S)	TR. SI, NPN	R38	RD14BB2C751J	RES. CARBON 750 5% 1/6W
Q124	2SC1740S(R,S)	TR. SI, NPN	R39	R90-0660-05	RES. NETWORK 4X1K
Q125	2SC1740S(R,S)	TR. SI, NPN	R40	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q126	2SC1740S(R,S)	TR. SI, NPN	R41	RD14BB2C683J	RES. CARBON 68K 5% 1/6W
Q127	2SA1005(K)	TR. SI, PNP	R42	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
Q151	2SA1459(K)	TR. SI, PNP	R43	RD14BB2C393J	RES. CARBON 39K 5% 1/6W
Q152	2SA1459(K)	TR. SI, PNP	R44	RD14BB2C221J	RES. CARBON 220 5% 1/6W
Q158	2SA1459(K)	TR. SI, PNP	R45	RD14BB2C163J	RES. CARBON 16K 5% 1/6W
Q201	2SA933S(R,S)	TR. SI, PNP	R46	RD14BB2C752J	RES. CARBON 7.5K 5% 1/6W
Q202	NO USE		R47	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
Q203	2SC1923(O)	TR. SI, NPN	R48	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
Q204	2SC1740S(R,S)	TR. SI, NPN	R49	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
Q205	2SA933S(R,S)	TR. SI, PNP	R50	RD14BB2C393J	RES. CARBON 39K 5% 1/6W
Q206	2SC2910(S)	TR. SI, NPN	R51	RD14BB2C123J	RES. CARBON 12K 5% 1/6W
Q207	2SA1208(S)	TR. SI, PNP	R52	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q208	2SC2910(S)	TR. SI, NPN	R53	RD14BB2C113J	RES. CARBON 11K 5% 1/6W
Q209	2SA1208(S)	TR. SI, PNP	R54	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
Q210	2SC2551(0)	TR. SI, NPN	R55	RD14BB2C221J	RES. CARBON 220 5% 1/6W
Q211	2SC2551(0)	TR. SI, NPN	R56	RD14BB2C182J	RES. CARBON 1.8K 5% 1/6W
Q212	2SA933S(R,S)	TR. SI, PNP	R57	RD14BB2C272J	RES. CARBON 2.7K 5% 1/6W
Q213	2SD613(E)	TR. SI, NPN	R58	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
Q301	2SC1740S(R,S)	TR. SI, NPN	R59	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
Q302	2SC1740S(R,S)	TR. SI, NPN	R60	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
Q303	2SC1740S(R,S)	TR. SI, NPN	R61	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
Q304	2SC1740S(R,S)	TR. SI, NPN	R62	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
Q305	2SA933S(R,S)	TR. SI, PNP	R63	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q306	2SA1005(K)	TR. SI, PNP	R64	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q307	2SA1005(K)	TR. SI, PNP	R65	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
Q313	2SC1740S(R,S)	TR. SI, NPN	R66	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q314	2SC1907	TR. SI, NPN	R67	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
Q315	2SC1907	TR. SI, NPN	R68	RD14BB2C105J	RES. CARBON 1K 5% 1/6W
Q316	2SA1459(K)	TR. SI, PNP	R69	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
Q317	2SA1458(K)	TR. SI, PNP	R70	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
Q318	2SC1907	TR. SI, NPN	R71	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q319	2SC1907	TR. SI, NPN	R72	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
Q320	2SC4732(E)	TR. SI, NPN	R73	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q321	2SC4732(E)	TR. SI, NPN	R74	RD14BB2C152J	RES. CARBON 1.5K 5% 1/6W
Q322	2SA1828(E)	TR. SI, PNP	R75	RD14BB2C152J	RES. CARBON 1.5K 5% 1/6W
Q323	2SA1828(E)	TR. SI, PNP	R76	NO USE	
Q324	2SA933S(R,S)	TR. SI, PNP	R77	RD14BB2C752J	RES. CARBON 7.5K 5% 1/6W
Q401	2SA1499(P)	TR. SI, PNP	R78	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
Q402	2SC2551(0)	TR. SI, NPN	R78	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q403	2SA1304	TR. SI, PNP	R80	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
Q404	2SC2551(0)	TR. SI, NPN	R81	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
Q405	2SB1015(Y)	TR. SI, PNP	R82	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
Q406	2SD1406(Y)	TR. SI, NPN	R83	RD14BB2E223J	RES. CARBON 22K 5% 1/4W
Q407	2SB1015(Y)	TR. SI, PNP	R84	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R1	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R85	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
R2	RD14BB2C470J	RES. CARBON 47 5% 1/6W	R86	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R3	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W	R87	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R4	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W	R88	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R5	RD14BB2C152J	RES. CARBON 1.5K 5% 1/5W	R89	NO USE	
R6	RD14BB2C822J	RES. CARBON 8.2K 5% 1/6W	R90	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R7	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W	R91	RD14BB2C203J	RES. CARBON 20K 5% 1/6W
R8	RD14BB2C181J	RES. CARBON 180 5% 1/6W	R101	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R9	RD14BB2C105J	RES. CARBON 1K 5% 1/6W	R102	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R10	RD14BB2C105J	RES. CARBON 1M 5% 1/6W	R103	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R11	RD14BB2C105J	RES. CARBON 1M 5% 1/6W	R104	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R12	RD14BB2C105J	RES. CARBON 1M 5% 1/6W	R105	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W
R13	NO USE		R106	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W
R14	RD14BB2C104J	RES. CARBON 100K 5% 1/6W	R107	RD14BB2C912J	RES. CARBON 9.1K 5% 1/6W
R15	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R108	RD14BB2C163J	RES. CARBON 16K 5% 1/6W
R16	RD14BB2C751J	RES. CARBON 750 5% 1/6W	R109	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R17	RD14BB2C821J	RES. CARBON 820 5% 1/6W	R110	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R18	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R111	RD14BB2C101J	RES. CARBON 100 5% 1/6W
			R112	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
			R113	RD14BB2C101J	RES. CARBON 100 5% 1/6W
			R114	RD14BB2C223J	RES. CARBON 22K 5% 1/6W
			R115	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
			R116	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
			R117	RD14BB2C473J	RES. CARBON 47K 5% 1/6W

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION	REF. NO	PARTS NO	NAME & DESCRIPTION
R118	RD14BB2C162J	RES. CARBON 1.6K 5% 1/6W	R215	RD14BB2C431J	RES. CARBON 430 5% 1/6W
R119	RD14BB2C243J	RES. CARBON 24K 5% 1/6W	R216	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W
R120	RD14BB2C103J	RES. CARBON 10K 5% 1/6W	R217	NO USE	
R121	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R218	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R122	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R219	RD14BB2C134J	RES. CARBON 130K 5% 1/6W
R123	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R220	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R124	RD14BB2C223J	RES. CARBON 22K 5% 1/6W	R221	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R125	RD14BB2C330J	RES. CARBON 33 5% 1/6W	R222	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R126	RD14BB2C120J	RES. CARBON 12 5% 1/6W	R223	RD14BB2C152J	RES. CARBON 1.5K 5% 1/6W
R127	RD14BB2E222J	RES. CARBON 2.2K 5% 1/4W	R224	RD14BB2C562J	RES. CARBON 5.6K 5% 1/6W
R128	RD14BB2E471J	RES. CARBON 470 5% 1/4W	R225	RD14BB2C134J	RES. CARBON 130K 5% 1/6W
R129	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W	R226	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R130	RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W	R227	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R131	RD14BB2C912J	RES. CARBON 9.1K 5% 1/6W	R228	RD14BB2C753J	RES. CARBON 75K 5% 1/6W
R132	RD14BB2C163J	RES. CARBON 16K 5% 1/6W	R229	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R133	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R230	RD14BB2C152J	RES. CARBON 1.5K 5% 1/6W
R134	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R231	RD14BB2C562J	RES. CARBON 5.6K 5% 1/6W
R135	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R232	RD14BB2C134J	RES. CARBON 130K 5% 1/6W
R136	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R233	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R137	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R234	RD14BB2C474J	RES. CARBON 470K 5% 1/6W
R138	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R235	RD14BB2C474J	RES. CARBON 470K 5% 1/6W
R139	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R236	R92-1563-05	RES. METALGLACE 10M 5% 1/4W
R140	RD14BB2C622J	RES. CARBON 6.2K 5% 1/6W	R237	R92-1563-05	RES. METALGLACE 10M 5% 1/4W
R141	RD14BB2C471J	RES. CARBON 470 5% 1/6W	R238	R92-1562-05	RES. METALGLACE 8.2M 5% 1/4W
R142	NO USE		R239	R92-1561-05	RES. METALGLACE 3.9M 5% 1/4W
R143	RD14BB2C302J	RES. CARBON 3K 5% 1/6W	R240	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R144	RD14BB2C302J	RES. CARBON 3K 5% 1/6W	R241	RD14BB2C474J	RES. CARBON 470K 5% 1/6W
R145	RD14BB2C131J	RES. CARBON 130 5% 1/6W	R242	RD14BB2C683J	RES. CARBON 68K 5% 1/6W
R146	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W	R243	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R147	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R244	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R148	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R245	RD14BB2C473J	RES. CARBON 47K 5% 1/6W
R149	RD14BB2C183J	RES. CARBON 18K 5% 1/6W	R246	RD14BB2C473J	RES. CARBON 47K 5% 1/6W
R150	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R247	RD14BB2C473J	RES. CARBON 47K 5% 1/6W
R151	RD14BB2C104J	RES. CARBON 100K 5% 1/6W	R248	RN14BK2C1203F	RES. METAL FILM 120K 1% 1/6W
R152	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W	R249	R92-1564-05	RES. METALGLACE 15M 1% 1/2W
R153	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R250	RD14BB2C124J	RES. CARBON 120K 5% 1/6W
R154	RD14BB2C684J	RES. CARBON 680K 5% 1/6W	R251	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R155	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R252	RD14BB2C392J	RES. CARBON 3.9K 5% 1/6W
R156	RD14BB2C223J	RES. CARBON 22K 5% 1/6W	R253	RD14BB2C153J	RES. CARBON 15K 5% 1/6W
R157	NO USE		R254	RD14BB2C221J	RES. CARBON 220 5% 1/6W
R158	RD14BB2C103J	RES. CARBON 10K 5% 1/6W	R255	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R159	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R256	NO USE	
R160	RD14BB2C202J	RES. CARBON 2K 5% 1/6W	R257	RD14BB2C151J	RES. CARBON 150 5% 1/6W
R161	RD14BB2C103J	RES. CARBON 10K 5% 1/6W	R258	RD14BB2C302J	RES. CARBON 3K 5% 1/6W
R162	RD14BB2C202J	RES. CARBON 2K 5% 1/6W	R259	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R163	RD14BB2C151J	RES. CARBON 150 5% 1/6W	R260	RN14BK2C1801F	RES. METAL FILM 1.8K 1% 1/6W
R164	RD14BB2C111J	RES. CARBON 110 5% 1/6W	R261	RN14BK2C1801F	RES. METAL FILM 1.8K 1% 1/6W
R165	RD14BB2C681J	RES. CARBON 680 5% 1/6W	R262	RD14BB2C362J	RES. CARBON 3.6K 5% 1/6W
R166	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W	R263	RD14BB2C562J	RES. CARBON 5.6K 5% 1/6W
R167	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W	R264	RD14BB2C303J	RES. CARBON 30K 5% 1/6W
R168	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R265	RD14BB2C562J	RES. CARBON 5.6K 5% 1/6W
R169	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R266	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R170	RD14BB2C103J	RES. CARBON 10K 5% 1/6W	R267	RD14BB2C224J	RES. CARBON 220K 5% 1/6W
R171	RD14BB2C103J	RES. CARBON 10K 5% 1/6W	R268	RD14BB2C204J	RES. CARBON 200K 5% 1/6W
R172	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R269	R92-1573-05	RES. LINEAR PCT 2.7K 5% 1/6W
R173	RD14BB2C431J	RES. CARBON 430 5% 1/6W	R300	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R174	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R301	RD14BB2C221J	RES. CARBON 220 5% 1/6W
R175	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R302	RD14BB2C821J	RES. CARBON 820 5% 1/6W
R176	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R303	RD14BB2C821J	RES. CARBON 820 5% 1/6W
R177	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R304	RD14BB2C122J	RES. CARBON 1.2K 5% 1/6W
R178	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R305	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R179	RD14BB2C242J	RES. CARBON 2.4K 5% 1/6W	R306	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R180	RD14BB2C122J	RES. CARBON 1.2K 5% 1/6W	R307	RD14BB2C202J	RES. CARBON 2K 5% 1/6W
R181	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R308	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R182	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R309	RD14BB2C242J	RES. CARBON 2.4K 5% 1/6W
R183	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	R310	RD14BB2C242J	RES. CARBON 2.4K 5% 1/6W
R184	RD14BB2C621J	RES. CARBON 620 5% 1/6W	R311	RD14BB2C362J	RES. CARBON 3.6K 5% 1/6W
R185	RD14BB2E103J	RES. CARBON 10K 5% 1/4W	R312	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R186	RD14BB2C202J	RES. CARBON 2K 5% 1/6W	R313	RD14BB2C182J	RES. CARBON 1.8K 5% 1/6W
R187	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R314	RD14BB2C432J	RES. CARBON 4.3K 5% 1/6W
R188	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W	R315	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W
R189	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R316	RD14BB2C153J	RES. CARBON 15K 5% 1/6W
R190	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W	R317	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W
R191	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W	R318	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R192	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R319	RD14BB2C202J	RES. CARBON 2K 5% 1/6W
R193	RD14BB2C470J	RES. CARBON 47 5% 1/6W	R320	RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W
R194	RD14BB2C470J	RES. CARBON 47 5% 1/6W	R321	RD14BB2C183J	RES. CARBON 18K 5% 1/6W
R195	RD14BB2C102J	RES. CARBON 1K 5% 1/6W	R322	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R196	RD14BB2C101J	RES. CARBON 100 5% 1/6W	R323	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R197	RD14BB2E101J	RES. CARBON 100 5% 1/4W	R324	RD14BB2C242J	RES. CARBON 2.4K 5% 1/6W
R198	RD14BB2C471J	RES. CARBON 470 5% 1/6W	R325	RD14BB2C012J	RES. CARBON 9.1K 5% 1/6W
R199	RD14BB2C473J	RES. CARBON 47K 5% 1/6W	R326	RD14BB2C301J	RES. CARBON 300 5% 1/6W
R202	RD14BB2C113J	RES. CARBON 11K 5% 1/6W	R327	RD14BB2C391J	RES. CARBON 390 5% 1/6W
R206	RD14BB2C432J	RES. CARBON 4.3K 5% 1/6W	R328	RD14BB2C391J	RES. CARBON 390 5% 1/6W
R207	RD14BB2C152J	RES. CARBON 1.5K 5% 1/6W	R329	RD14BB2C390J	RES. CARBON 39 5% 1/6W
R210	RD14BB2C333J	RES. CARBON 33K 5% 1/6W	R330	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R214	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W	R331	RD14BB2C271J	RES. CARBON 270 5% 1/6W
			R332	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W
			R333	RD14BB2C432J	RES. CARBON 4.3K 5% 1/6W
			R334	RD14BB2C432J	RES. CARBON 4.3K 5% 1/6W

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION				
R335	RD14BB2C243J	RES. CARBON	24K	5%	1/6W	
R336	RD14BB2C243J	RES. CARBON	24K	5%	1/6W	
R349	R92-1552-05	RES. LINEAR PCT 180				
R355	RD14BB2C381J	RES. CARBON	380	5%	1/6W	
R362	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W	
R363	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W	
R364	RN14BK2C3901F	RES. METAL FILM	3.9K	1%	1/6W	
R365	RN14BK2C6201F	RES. METAL FILM	6.2K	1%	1/6W	
R366	R92-1560-05	RES. LINEAR PCT	2K			
R367	RD14BB2C393J	RES. CARBON	39K	5%	1/6W	
R368	RD14BB2C622J	RES. CARBON	6.2K	5%	1/6W	
R369	RD14BB2C204J	RES. CARBON	200K	5%	1/6W	
R370	RD14BB2C302J	RES. CARBON	3K	5%	1/6W	
R371	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W	
R372	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W	
R373	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W	
R374	RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W	
R375	RD14BB2C362J	RES. CARBON	3.6K	5%	1/6W	
R376	RD14BB2C362J	RES. CARBON	3.6K	5%	1/6W	
R377	R92-1558-05	RES. SPECIAL POWER	39K	5%	1W	
R378	R92-1558-05	RES. SPECIAL POWER	39K	5%	1W	

REF. NO	PARTS NO	NAME & DESCRIPTION				
VR102	R12-0694-05	RES. SEMI	FIXED	4.7K		
VR103	R12-0680-05	RES. SEMI	FIXED	47K		
VR104	R12-1860-05	RES. SEMI	FIXED	1KB		
VR201	R12-5545-05	RES. SEMI	FIXED	2.2MB		
VR202	R12-6507-05	RES. SEMI	FIXED	470K		
VR301	R12-0680-05	RES. SEMI	FIXED	47K		
VR302	R12-0882-05	RES. SEMI	FIXED	100 B		
VR303	R12-0678-05	RES. SEMI	FIXED	10KB		
VR304	R12-0694-05	RES. SEMI	FIXED	4.7KB		
VR305	R12-6501-05	RES. SEMI	FIXED	470KB		
VR306	NO USE					
VR307	R12-0680-05	RES. SEMI	FIXED	47K		
VR308	R12-0890-05	RES. SEMI	FIXED	470 B		
VR309	R12-0883-05	RES. SEMI	FIXED	220 B		
W201	W02-2256-05	HIGH VOLTAGE BLOCK				

CS-5260 R/O UNIT

X77-1870-00

REF. NO	PARTS NO	NAME & DESCRIPTION				
	J73-0282-02	PCB (UNMOUNTED)				
C1	C91-2538-05	CAP. MYLAR	0.1	63V		
C2	C91-2538-05	CAP. MYLAR	0.1	63V		
C3	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C4	C91-2538-05	CAP. MYLAR	0.1	63V		
C5	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C6	C91-2538-05	CAP. MYLAR	0.1	63V		
C7	C91-2538-05	CAP. MYLAR	0.1	63V		
C8	C91-2538-05	CAP. MYLAR	0.1	63V		
C9	C91-1361-05	CAP. MYLAR	0.01	10% 100V		
C10	C91-2538-05	CAP. MYLAR	0.1	63V		
C11	C91-2538-05	CAP. MYLAR	0.1	63V		
C12	C91-1361-05	CAP. MYLAR	0.01	10% 100V		
C13	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C14	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C15	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C16	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C17	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C18	C91-0755-05	CAP. CERAMIC	680P	10% 50V		
C19	C91-0755-05	CAP. CERAMIC	680P	10% 50V		
C20	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C21	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C22	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C23	CC45FCH1H270J	CAP. CERAMIC	27P	5% 50V		
C24	CC45FCH1H270J	CAP. CERAMIC	27P	5% 50V		
C25	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C26	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C28	CC45FCH1H101J	CAP. CERAMIC	100P	5% 50V		
C30	C91-2538-05	CAP. MYLAR	0.1	63V		
C31	C91-2538-05	CAP. MYLAR	0.1	63V		
C32	C91-2538-05	CAP. MYLAR	0.1	63V		
C33	C90-3226-05	CAP. ELECTRO	22	20% 16V		
C34	C91-2538-05	CAP. MYLAR	0.1	63V		
C35	C91-2538-05	CAP. MYLAR	0.1	63V		
C36	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C39	C91-2538-05	CAP. MYLAR	0.1	63V		
C40	C91-2538-05	CAP. MYLAR	0.1	63V		
C41	C91-2538-05	CAP. MYLAR	0.1	63V		
C42	C91-2538-05	CAP. MYLAR	0.1	63V		
C43	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C44	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C45	C91-2538-05	CAP. MYLAR	0.1	63V		
C46	C91-2538-05	CAP. MYLAR	0.1	63V		
C47	C91-2538-05	CAP. MYLAR	0.1	63V		
C48	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C49	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C50	C91-1128-05	CAP. CERAMIC	0.1	80/-20% 50V		
C51	C90-3230-05	CAP. ELECTRO	100	20% 16V		
C52	C90-3230-05	CAP. ELECTRO	100	20% 16V		
C53	C90-3230-05	CAP. ELECTRO	100	20% 16V		
C54	C90-3230-05	CAP. ELECTRO	100	20% 16V		
C55	C90-3216-05	CAP. ELECTRO	330	20% 6.3V		
C56	NO USE					
C57	CC45FCH1H680J	CAP. CERAMIC	68P	5% 50V		
C58	CC45FCH1H680J	CAP. CERAMIC	68P	5% 50V		
C59	C91-0769-05	CAP. CERAMIC	0.01	20% 16V		
C60	C91-0769-05	CAP. CERAMIC	0.01	20% 16V		
JW24	E38-0982-05	WIRE ASS'Y;8P				
JW25	E38-1000-15	WIRE ASS'Y;1P, EARTH LUG				

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION			
L1	L79-0551-05	NOISE FILTER			
L2	L79-0551-05	NOISE FILTER			
L3	L79-0551-05	NOISE FILTER			
L4	L79-0551-05	NOISE FILTER			
L5	R92-1061-05	JUMPING RES.	ZERO OHM(5MM)		
P23	E40-7404-05	PIN CONNECTOR	26P		
R1	RN14BK2C9100F	RES. METAL FILM	910 1%	1/6W	
R4	RN14BK2C1101F	RES. METAL FILM	1.1K 1%	1/6W	
R7	RN14BK2C3301F	RES. METAL FILM	3.3K 1%	1/6W	
R8	RN14BK2C3301F	RES. METAL FILM	3.3K 1%	1/6W	
R9	RN14BK2C3301F	RES. METAL FILM	3K 1%	1/6W	
R10	RN14BK2C1301F	RES. METAL FILM	1.3K 1%	1/6W	
R11	RN14BK2C2701F	RES. METAL FILM	2.7K 1%	1/6W	
R12	RN14BK2C2701F	RES. METAL FILM	2.7K 1%	1/6W	
R13	RN14BK2C3301F	RES. METAL FILM	3.3K 1%	1/6W	
R14	RN14BK2C1601F	RES. METAL FILM	1.6K 1%	1/6W	
R15	RD14BB2C103J	RES. CARBON	10K 5%	1/6W	
R16	RD14BB2C472J	RES. CARBON	4.7K 5%	1/6W	
R17	RD14BB2C103J	RES. CARBON	10K 5%	1/6W	
R18	RD14BB2C152J	RES. CARBON	1.5K 5%	1/6W	
R19	RD14BB2C752J	RES. CARBON	7.5K 5%	1/6W	
R20	RD14BB2C101J	RES. CARBON	100 5%	1/6W	
R21	RD14BB2C101J	RES. CARBON	100 5%	1/6W	
R22	RD14BB2C101J	RES. CARBON	100 5%	1/6W	
R23	RD14BB2C101J	RES. CARBON	100 5%	1/6W	
R24	RD14BB2C101J	RES. CARBON	100 5%	1/6W	
R25	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R26	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R27	RD14BB2C101J	RES. CARBON	100 5%	1/6W	
R28	RD14BB2C101J	RES. CARBON	100 5%	1/6W	
R29	RD14BB2C512J	RES. CARBON	5.1K 5%	1/6W	
R30	RD14BB2C512J	RES. CARBON	5.1K 5%	1/6W	
R31	RD14BB2C512J	RES. CARBON	5.1K 5%	1/6W	
R32	RD14BB2C103J	RES. CARBON	10K 5%	1/6W	
R33	RD14BB2C103J	RES. CARBON	10K 5%	1/6W	
R34	RD14BB2C103J	RES. CARBON	10K 5%	1/6W	
R35	RD14BB2C101J	RES. CARBON	100 5%	1/6W	
R36	RN14BK2C1202D	RES. METAL FILM	12K 0.5%	1/6W	
R37	RN14BK2C1202D	RES. METAL FILM	12K 0.5%	1/6W	
R38	RN14BK2C3001D	RES. METAL FILM	3K 0.5%	1/6W	
R39	RN14BK2C521D	RES. METAL FILM	1.52K 0.5%	1/6W	
R40	RN14BK2C3001F	RES. METAL FILM	3K 1%	1/6W	
R41	RN14BK2C1501F	RES. METAL FILM	1.5K 1%	1/6W	
R42	RD14BB2C103J	RES. CARBON	10K 5%	1/6W	
R43	R90-0653-05	RES. NETWORK	8X10K		
R44	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R45	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R46	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R47	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R48	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R49	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R50	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R51	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R52	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R53	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R54	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R55	RD14BB2C101J	RES. CARBON	100 5%	1/6W	
R56	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R57	RD14BB2C102J	RES. CARBON	1K 5%	1/6W	
R58	RD14BB2C103J	RES. CARBON	10K 5%	1/6W	
R59	RD14BB2C101J	RES. CARBON	100 5%	1/6W	
R60	RD14BB2C101J	RES. CARBON	100 5%	1/6W	
U1	CTH5280	IC GATE ARRAY			
U2	LC3664A8L-10	IC, CMOS 64K SRAM			
U3	NJK311D	IC, COMPARATOR			
U4	SN74ALS138N	IC, 3-8 DECODER/DE-MPX			
U5	SN74ALS32N	IC, QUAD 2 INPUT OR			
U6	SN74AS373N	IC, OCTAL D TRANSPARENT LATCHES			
U7	SN74ALS374AN	IC, OCTAL D-F.F.			
U8	SN74ALS374AN	IC, OCTAL D-F.F.			
U9	DAC0808LCN	IC, 8-BIT D/A CONVERTER			
U10	DAC0808LCN	IC, 8-BIT D/A CONVERTER			
U11	TC74HC4051AP	IC, 8-CH ANALOG MULTIPLEXER			
U12	TC74HC4051AP	IC, 8-CH ANALOG MULTIPLEXER			
U13	NJM072BD	IC, JFET INPUT OP AMP			
U14	SN74LS164N	IC, 8-BIT PARA-OUT SERI. REGIST			
U15	SN74ALS04BN	IC, HEX INVERTERS			
U16	HA17012PB	IC, 12-BIT D/A CONVERTER			
U17	HD14051BP	IC, 8-CH ANALOG MPX/DE-MP			
U18	PST518B	IC, RESET			
X1	L78-0131-05	CERALOCK			
X2	L78-0130-05	CERALOCK			

CS-5260 FINAL AMP UNIT

X80-1370-02

REF. NO	PARTS NO	NAME & DESCRIPTION			
E01	E01-0103-05	CRT SOCKET			
E23	E23-0149-05	GND TERMINAL			
F01	F01-2318-04	HEAT SINK			
F01	F01-2319-05	HEAT SINK			
J21	J21-4879-04	BRACKET			
J73	J73-0285-22	PCB (UNMOUNTED)			
N09	N09-0718-05	SCREW, SEMS PAN HD M3X6			
C1	CK45FB1H152K	CAP. CERAMIC	1500P	10%	50V
C2	NO USE				
C3	C90-3178-05	CAP. METAL FILM	0.047		5.5V
C4	C90-3178-05	CAP. METAL FILM	0.047		5.5V
C5	NO USE				
C6	CC45FSL1H821J	CAP. CERAMIC	820P	5%	50V
C7	CC45FCH1H121J	CAP. CERAMIC	120P	5%	50V
C8	CF92FV1H102J	CAP. POLYESTER	1000P	5%	50V
C9	CF92FV1H102J	CAP. POLYESTER	1000P	5%	50V
C10	CC45FCH1H070D	CAP. CERAMIC	7P	0.5P	50V
C11	CC45FCH1H470J	CAP. CERAMIC	47P	5%	50V
C12	CC45FCH1H030C	CAP. CERAMIC	3P	0.25P	50V
C13	CC45FCH1H180J	CAP. CERAMIC	-18P	5%	50V
C14	CC45FCH1H151J	CAP. CERAMIC	150P	5%	50V
C15	CC45FCH1H030C	CAP. CERAMIC	3P	0.25P	50V
C16	CC45FCH1H030C	CAP. CERAMIC	3P	0.25P	50V
C17	CF92V1H103J	CAP. POLYESTER	0.01	5%	50V
C18	CF92V1H104J	CAP. POLYESTER	0.1	5%	50V
C101	CE04LW1E101M	CAP. ELECTRO	100	20%	25V
C102	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C103	CE04LW1E101M	CAP. ELECTRO	100	20%	25V
C104	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C105	NO USE				
C106	C91-1357-05	CAP. POLYESTER	0.1	10%	100V
C107	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C108	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C109	NO USE				
C110	CK45FB1H102K	CAP. CERAMIC	1000P	10%	50V
C111	C91-0769-05	CAP. CERAMIC	0.01	20%	16V
C201	C91-2583-05	CAP. CERAMIC	0.1	20%	250V
C202	C91-2584-05	CAP. CERAMIC	1000P	10%	250V
C203	C91-2584-05	CAP. CERAMIC	1000P	10%	250V
C207	CE04LW1E220M	CAP. ELECTRO	22	20%	25V
C208	NO USE				
C209	CE04LW0J101M	CAP. ELECTRO	100	20%	6.3V
C210	NO USE				
C211	CC45FCH1H120J	CAP. CERAMIC	12P	5%	50V
C801	C91-1229-05	CAP. CERAMIC	3.3P	10%	50V
C802	C91-1229-05	CAP. CERAMIC	3.3P	10%	50V
JW5	E38-0997-05	WIRE ASS'Y; CRT TO FINAL			
JW6	NO USE				
JW7	E38-0998-05	WIRE ASS'Y; CRT TO H			
JW13	E38-0999-05	WIRE ASS'Y; BNC TO V			
L1	L40-2201-17	FERRI INDUCTOR	22UH	10%	
L2	L40-1001-17	FERRI INDUCTOR	10UH	10%	
L61	L40-2281-17	FERRI INDUCTOR	0.22UH	10%	
L62	L40-3981-17	FERRI INDUCTOR	0.39UH	10%	
L63	L40-2281-17	FERRI INDUCTOR	0.22UH	10%	
L64	L40-3981-17	FERRI INDUCTOR	0.39UH	10%	
L201	L33-0808-05	CHOKE COIL	1000UH		
L202	L40-2281-17	FERRI INDUCTOR	0.22UH	10%	
L203	L40-2281-17	FERRI INDUCTOR	0.22UH	10%	
P4	E40-7515-05	PIN CONNECTOR	3P		
P5	E40-3300-05	PIN CONNECTOR	3P		
P14	E40-5066-05	PIN CONNECTOR	9P		
P18	E40-7518-05	PIN CONNECTOR	6P		
P19	E40-7515-05	PIN CONNECTOR	3P		
P20	NO USE				
P21	E40-7412-05	PIN CONNECTOR	2P		
P22	E40-7413-05	PIN CONNECTOR	6P		
P105	E40-7515-05	PIN CONNECTOR	3P		
P114	E40-7517-05	PIN CONNECTOR	5P		
P201	E04-0277-05	BNC CONNECTOR			

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION	REF. NO	PARTS NO	NAME & DESCRIPTION
Q1	2SA1161	TR. SI, PNP	R75	R92-1566-05	RES. SPECIAL POWER 91 5% 1W
Q2	2SA1161	TR. SI, PNP	R76	R92-1566-05	RES. SPECIAL POWER 91 5% 1W
Q3	2SC3779(D)	TR. SI, NPN	R77	R92-1566-05	RES. SPECIAL POWER 91 5% 1W
Q4	2SC3779(D)	TR. SI, NPN	R78	R92-1566-05	RES. SPECIAL POWER 91 5% 1W
Q5	2SC3779(D)	TR. SI, NPN	R79	RD14BB2E2R2J	RES. CARBON 2.2 5% 1/4W
Q6	2SC3779(D)	TR. SI, NPN	R80	RD14BB2E2R2J	RES. CARBON 2.2 5% 1/4W
Q7	2SC3779(D)	TR. SI, NPN	R81	RD14BB2C331J	RES. CARBON 330 5% 1/6W
Q8	2SC3779(D)	TR. SI, NPN	R82	R92-1565-05	RES. SPECIAL POWER 27 5% 1W
Q9	2SC3779(D)	TR. SI, NPN	R85	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
Q10	2SC3779(D)	TR. SI, NPN	R86	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
Q11	2SC3779(D)	TR. SI, NPN	R87	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
Q12	2SC3779(D)	TR. SI, NPN	R88	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
Q13	2SC1252	TR. SI, NPN	R89	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
Q14	2SC1252	TR. SI, NPN	R90	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
Q201	2SC3779(D)	TR. SI, NPN	R91	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
Q202	2SC3779(D)	TR. SI, NPN	R92	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
R1	RD14BB2C202J	RES. CARBON 2K 5% 1/6W	R93	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R2	RD14BB2C182J	RES. CARBON 1.8K 5% 1/6W	R94	NO USE	
R3	RD14BB2E822J	RES. CARBON 8.2K 5% 1/4W	R95	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R4	RD14BB2C221J	RES. CARBON 220 5% 1/6W	R96	NO USE	
R5	RD14BB2C131J	RES. CARBON 130 5% 1/6W	R97	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R6	RD14BB2C221J	RES. CARBON 220 5% 1/6W	R98	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R7	RD14BB2C751J	RES. CARBON 750 5% 1/6W	R201	R92-0173-05	RES. FIXED 2.2M 20% 350V
R8	RD14BB2C911J	RES. CARBON 910 5% 1/6W	R202	NO USE	
R9	RD14BB2C911J	RES. CARBON 910 5% 1/6W	R203	RD14BB2C331J	RES. CARBON 330 5% 1/6W
R10	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R204	RD14BB2C331J	RES. CARBON 330 5% 1/6W
R11	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W	R205	RD14BB2C242J	RES. CARBON 2.4K 5% 1/6W
R12	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W	R206	NO USE	
R13	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R207	RD14BB2C201J	RES. CARBON 200 5% 1/6W
R14	RD14BB2E273J	RES. CARBON 27K 5% 1/4W	R208	RD14BB2C100J	RES. CARBON 10 5% 1/6W
R15	R92-1575-05	RES. LINEAR PCT 100 5% 1/6W	R209	RD14BB2C151J	RES. CARBON 150 5% 1/6W
R16	R92-1575-05	RES. LINEAR PCT 100 5% 1/6W	R210	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R17	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R211	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R18	RD14BB2C220J	RES. CARBON 22 5% 1/6W	R212	RD14BB2C101J	RES. CARBON 100 5% 1/6W
R19	RD14BB2C113J	RES. CARBON 11K 5% 1/6W	R213	RD14BB2E223J	RES. CARBON 22K 5% 1/4W
R20	RD14BB2C561J	RES. CARBON 560 5% 1/6W	R214	RD14BB2E223J	RES. CARBON 22K 5% 1/4W
R21	RD14BB2C100J	RES. CARBON 10 5% 1/6W	R215	RD14BB2C100J	RES. CARBON 10 5% 1/6W
R22	RN14BK2C5600F	RES. METAL FILM 560 1% 1/6W	R216	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R23	RD14BB2C473J	RES. CARBON 47K 5% 1/6W	R217	RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W
R24	RD14BB2C303J	RES. CARBON 30K 5% 1/6W	R218	RD14BB2C181J	RES. CARBON 180 5% 1/6W
R25	RD14BB2C221J	RES. CARBON 220 5% 1/6W	R219	RD14BB2C121J	RES. CARBON 120 5% 1/6W
R26	RD14BB2C221J	RES. CARBON 220 5% 1/6W	TC1	C05-0469-05	CAP. TRIMMER 10P
R27	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W	TC62	C05-0472-05	CAP. TRIMMER 50P
R28	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W	TH1	112-103-2FM	THERMISTOR
R29	RD14BB2C220J	RES. CARBON 22 5% 1/6W	TH2	112-103-2FM	THERMISTOR
R30	RD14BB2C220J	RES. CARBON 22 5% 1/6W	U1	KMG01	IC, LINEAR
R34	RD14BB2C473J	RES. CARBON 47K 5% 1/6W	VR1	R12-1857-05	RES. SEMI FIXED 1K
R35	RD14BB2C623J	RES. CARBON 62K 5% 1/6W	VR2	R12-0679-05	RES. SEMI FIXED 22KB
R36	RD14BB2C203J	RES. CARBON 20K 5% 1/6W	VR3	R12-1860-05	RES. SEMI FIXED 1KB
R37	RD14BB2E752J	RES. CARBON 7.5K 5% 1/4W	VR4	R12-0678-05	RES. SEMI FIXED 22KB
R38	NO USE				
R39	RD14BB2C182J	RES. CARBON 1.8K 5% 1/6W			
R40	NO USE				
R41	RD14BB2C680J	RES. CARBON 68 5% 1/6W			
R42	RD14BB2C621J	RES. CARBON 620 5% 1/6W			
R43	RD14BB2C621J	RES. CARBON 620 5% 1/6W			
R44	RD14BB2C562J	RES. CARBON 5.6K 5% 1/6W			
R45	RD14BB2C362J	RES. CARBON 3.6K 5% 1/6W			
R46	RD14BB2C911J	RES. CARBON 910 5% 1/6W			
R47	RD14BB2C102J	RES. CARBON 1K 5% 1/6W			
R48	RD14BB2C102J	RES. CARBON 1K 5% 1/6W			
R49	RD14BB2C151J	RES. CARBON 150 5% 1/6W			
R50	RD14BB2C151J	RES. CARBON 150 5% 1/6W			
R51	RD14BB2E220J	RES. CARBON 22 5% 1/4W			
R52	RD14BB2E220J	RES. CARBON 22 5% 1/4W			
R53	RD14BB2C1R0J	RES. CARBON 1 5% 1/6W			
R54	RD14BB2C1R0J	RES. CARBON 1 5% 1/6W			
R55	RD14BB2E121J	RES. CARBON 120 5% 1/4W			
R56	RD14BB2E121J	RES. CARBON 120 5% 1/4W			
R57	RD14BB2C103J	RES. CARBON 10K 5% 1/6W			
R58	RD14BB2C333J	RES. CARBON 33K 5% 1/6W			
R59	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W			
R60	NO USE				
R61	RD14BB2C431J	RES. CARBON 430 5% 1/6W			
R62	RD14BB2C431J	RES. CARBON 430 5% 1/6W			
R63	RD14BB2C220J	RES. CARBON 22 5% 1/6W			
R64	RD14BB2C220J	RES. CARBON 22 5% 1/6W			
R65	RD14BB2C470J	RES. CARBON 47 5% 1/6W			
R66	RD14BB2C470J	RES. CARBON 47 5% 1/6W			
R67	RD14BB2C470J	RES. CARBON 47 5% 1/6W			
R68	RD14BB2C470J	RES. CARBON 47 5% 1/6W			
R69	RD14BB2C103J	RES. CARBON 10K 5% 1/6W			
R70	RD14BB2C271J	RES. CARBON 270 5% 1/6W			
R71	RD14BB2C390J	RES. CARBON 39 5% 1/6W			
R72	RN14BK2C30R0F	RES. METAL FILM 30.0 1% 1/6W			
R73	R92-1567-05	RES. SPECIAL POWER 100 5% 1W			
R74	R92-1567-05	RES. SPECIAL POWER 100 5% 1W			

CS-5265 FINAL AMP UNIT

X80-1370-03

REF. NO	PARTS NO	NAME & DESCRIPTION
E01-0103-05	CRT SOCKET	
E23-0149-05	GND TERMINAL	
F01-2318-04	HEAT SINK	
F01-2319-05	HEAT SINK	
J21-4879-04	BRACKET	
J73-0285-22	PCB (UNMOUNTED)	
N08-0718-05	SCREW,SENS PAN HD M3X6	
C1	CK45FB1H152K	CAP. CERAMIC 1500P 10% 50V
C2	NO USE	
C3	C90-3178-05	CAP. METAL FILM 0.047 5.5V
C4	C90-3178-05	CAP. METAL FILM 0.047 5.5V
C5	NO USE	
C6	CC45FSL1H821J	CAP. CERAMIC 820P 5% 50V
C7	CC45FCH1H121J	CAP. CERAMIC 120P 5% 50V
C8	CF92FV1H102J	CAP. POLYESTER 1000P 5% 50V
C9	CF92FV1H102J	CAP. POLYESTER 1000P 5% 50V
C10	CC45FCH1H070D	CAP. CERAMIC 7P 0.5P 50V
C11	CC45FCH1H470J	CAP. CERAMIC 47P 5% 50V
C12	CC45FCH1H030C	CAP. CERAMIC 3P 0.25P 50V
C13	CC45FCH1H180J	CAP. CERAMIC 18P 5% 50V
C14	CC45FCH1H151J	CAP. CERAMIC 150P 5% 50V
C15	CC45FCH1H030C	CAP. CERAMIC 3P 0.25P 50V
C16	CC45FCH1H030C	CAP. CERAMIC 3P 0.25P 50V
C17	CF92V1H103J	CAP. POLYESTER 0.01 5% 50V
C18	CF92V1H104J	CAP. POLYESTER 0.1 5% 50V

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION
C101	CE04LW1E101M	CAP. ELECTRO 100 20% 25V
C102	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C103	CE04LW1E101M	CAP. ELECTRO 100 20% 25V
C104	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C105	NO USE	
C106	C91-1357-05	CAP. POLYESTER 0.1 10% 100V
C107	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C108	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C109	NO USE	
C110	CK45FB1H102K	CAP. CERAMIC 1000P 10% 50V
C111	C91-0769-05	CAP. CERAMIC 0.01 20% 16V
C207	CE04LW1E220M	CAP. ELECTRO 22 20% 25V
C208	NO USE	
C209	CE04LW0J101M	CAP. ELECTRO 100 20% 6.3V
C210	NO USE	
C211	CC45FCH1H120J	CAP. CERAMIC 12P 5% 50V
C801	C91-1228-05	CAP. CERAMIC 3.3P 10% 50V
C802	C91-1228-05	CAP. CERAMIC 3.3P 10% 50V
D100	MA700	DIODE
D101	MA700	DIODE
JW5	E38-0987-05	WIRE ASS'Y; CRT TO FINAL
JW6	NO USE	
JW7	E38-0998-05	WIRE ASS'Y; CRT TO H
JW13	E38-0999-05	WIRE ASS'Y; BNC TO V
L1	L40-2201-17	FERRI INDUCTOR 22UH 10%
L2	L40-1001-17	FERRI INDUCTOR 10UH 10%
L61	L40-2281-17	FERRI INDUCTOR 0.22UH 10%
L62	L40-3981-17	FERRI INDUCTOR 0.39UH 10%
L63	L40-2281-17	FERRI INDUCTOR 0.22UH 10%
L64	L40-3981-17	FERRI INDUCTOR 0.39UH 10%
L202	L40-2281-17	FERRI INDUCTOR 0.22UH 10%
L203	L40-2281-17	FERRI INDUCTOR 0.22UH 10%
P4	E40-7515-05	PIN CONNECTOR 3P
P5	E40-3300-05	PIN CONNECTOR 3P
P14	E40-5066-05	PIN CONNECTOR 8P
P18	E40-7518-05	PIN CONNECTOR 6P
P19	E40-7515-05	PIN CONNECTOR 3P
P20	NO USE	
P21	E40-7412-05	PIN CONNECTOR 2P
P22	E40-7413-05	PIN CONNECTOR 6P
P105	E40-7515-05	PIN CONNECTOR 3P
P114	E40-7517-05	PIN CONNECTOR 5P
P201	E04-0277-05	BNC CONNECTOR
Q1	2SA1161	TR. SI, PNP
Q2	2SA1161	TR. SI, PNP
Q3	2SC3779(D)	TR. SI, NPN
Q4	2SC3778(D)	TR. SI, NPN
Q5	2SC3779(D)	TR. SI, NPN
Q6	2SC3779(D)	TR. SI, NPN
Q7	2SC3778(D)	TR. SI, NPN
Q8	2SC3778(D)	TR. SI, NPN
Q9	2SC3779(D)	TR. SI, NPN
Q10	2SC3778(D)	TR. SI, NPN
Q11	2SC3778(D)	TR. SI, NPN
Q12	2SC3779(D)	TR. SI, NPN
Q13	2SC1252	TR. SI, NPN
Q14	2SC1252	TR. SI, NPN
Q100	2SC1740S(R,S)	TR. SI, NPN
Q201	2SC3779(D)	TR. SI, NPN
Q202	2SC3779(D)	TR. SI, NPN
R1	RD14BB2C202J	RES. CARBON 2K 5% 1/6W
R2	RD14BB2C182J	RES. CARBON 1.8K 5% 1/6W
R3	RD14BB2E822J	RES. CARBON 8.2K 5% 1/4W
R4	RD14BB2C221J	RES. CARBON 220 5% 1/6W
R5	RD14BB2C131J	RES. CARBON 130 5% 1/6W
R6	RD14BB2C221J	RES. CARBON 220 5% 1/6W
R7	RD14BB2C751J	RES. CARBON 750 5% 1/6W
R8	RD14BB2C911J	RES. CARBON 910 5% 1/6W
R9	RD14BB2C911J	RES. CARBON 910 5% 1/6W
R10	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R11	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W
R12	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W

X80-1370-03

REF. NO	PARTS NO	NAME & DESCRIPTION
R13	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R14	RD14BB2E273J	RES. CARBON 27K 5% 1/4W
R15	R92-1575-05	RES. LINEAR PCT 100 5% 1/6W
R16	R92-1575-05	RES. LINEAR PCT 100 5% 1/6W
R17	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R18	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R19	RD14BB2C113J	RES. CARBON 11K 5% 1/6W
R20	RD14BB2C561J	RES. CARBON 560 5% 1/6W
R21	RD14BB2C100J	RES. CARBON 10 5% 1/6W
R22	RN14BK2C5600F	RES. METAL FILM 560 1% 1/6W
R23	RD14BB2C473J	RES. CARBON 47K 5% 1/6W
R24	RD14BB2C303J	RES. CARBON 30K 5% 1/6W
R25	RD14BB2C221J	RES. CARBON 220 5% 1/6W
R26	RD14BB2C221J	RES. CARBON 220 5% 1/6W
R27	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W
R28	RD14BB2C132J	RES. CARBON 1.3K 5% 1/6W
R29	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R30	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R31	NO USE	
R32	RD14BB2E222J	RES. CARBON 2.2K 5% 1/4W
R33	RD14BB2C622J	RES. CARBON 6.2K 5% 1/6W
R34	RD14BB2C241J	RES. CARBON 240 5% 1/6W
R35	NO USE	
R36	RD14BB2C203J	RES. CARBON 20K 5% 1/6W
R37	NO USE	
R38	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R39	RD14BB2C182J	RES. CARBON 1.8K 5% 1/6W
R40	NO USE	
R41	RD14BB2C680J	RES. CARBON 68 5% 1/6W
R42	RD14BB2C621J	RES. CARBON 620 5% 1/6W
R43	RD14BB2C621J	RES. CARBON 620 5% 1/6W
R44	RD14BB2C562J	RES. CARBON 5.6K 5% 1/6W
R45	RD14BB2C362J	RES. CARBON 3.6K 5% 1/6W
R46	RD14BB2C911J	RES. CARBON 910 5% 1/6W
R47	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R48	RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R49	RD14BB2C151J	RES. CARBON 150 5% 1/6W
R50	RD14BB2C151J	RES. CARBON 150 5% 1/6W
R51	RD14BB2E220J	RES. CARBON 22 5% 1/4W
R52	RD14BB2E220J	RES. CARBON 22 5% 1/4W
R53	RD14BB2C1R0J	RES. CARBON 1 5% 1/6W
R54	RD14BB2C1R0J	RES. CARBON 1 5% 1/6W
R55	RD14BB2E121J	RES. CARBON 120 5% 1/4W
R56	RD14BB2E121J	RES. CARBON 120 5% 1/4W
R57	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R58	RD14BB2C333J	RES. CARBON 33K 5% 1/6W
R59	RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R60	NO USE	
R61	RD14BB2C431J	RES. CARBON 430 5% 1/6W
R62	RD14BB2C431J	RES. CARBON 430 5% 1/6W
R63	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R64	RD14BB2C220J	RES. CARBON 22 5% 1/6W
R65	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R66	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R67	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R68	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R69	RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R70	RD14BB2C271J	RES. CARBON 270 5% 1/6W
R71	RD14BB2C390J	RES. CARBON 39 5% 1/6W
R72	RN14BK2C30R0F	RES. METAL FILM 30.0 1% 1/6W
R73	R92-1567-05	RES. SPECIAL POWER 100 5% 1W
R74	R92-1567-05	RES. SPECIAL POWER 100 5% 1W
R75	R92-1566-05	RES. SPECIAL POWER 91 5% 1W
R76	R92-1566-05	RES. SPECIAL POWER 91 5% 1W
R77	R92-1566-05	RES. SPECIAL POWER 91 5% 1W
R78	R92-1566-05	RES. SPECIAL POWER 91 5% 1W
R79	RD14BB2E2R2J	RES. CARBON 2.2 5% 1/4W
R80	RD14BB2E2R2J	RES. CARBON 2.2 5% 1/4W
R81	RD14BB2C331J	RES. CARBON 330 5% 1/6W
R82	R92-1565-05	RES. SPECIAL POWER 27 5% 1W
R85	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
R86	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
R87	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
R88	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
R89	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
R90	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
R91	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
R92	R92-1569-05	RES. SPECIAL POWER 360 5% 2W
R93	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R94	NO USE	
R95	RD14BB2C470J	RES. CARBON 47 5% 1/6W
R96	NO USE	
R97	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R98	RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R203	RD14BB2C331J	RES. CARBON 330 5% 1/6W
R204	RD14BB2C331J	RES. CARBON 330 5% 1/6W
R205	RD14BB2C242J	RES. CARBON 2.4K 5% 1/6W
R206	NO USE	
R207	RD14BB2C201J	RES. CARBON 200 5% 1/6W

PARTS LIST

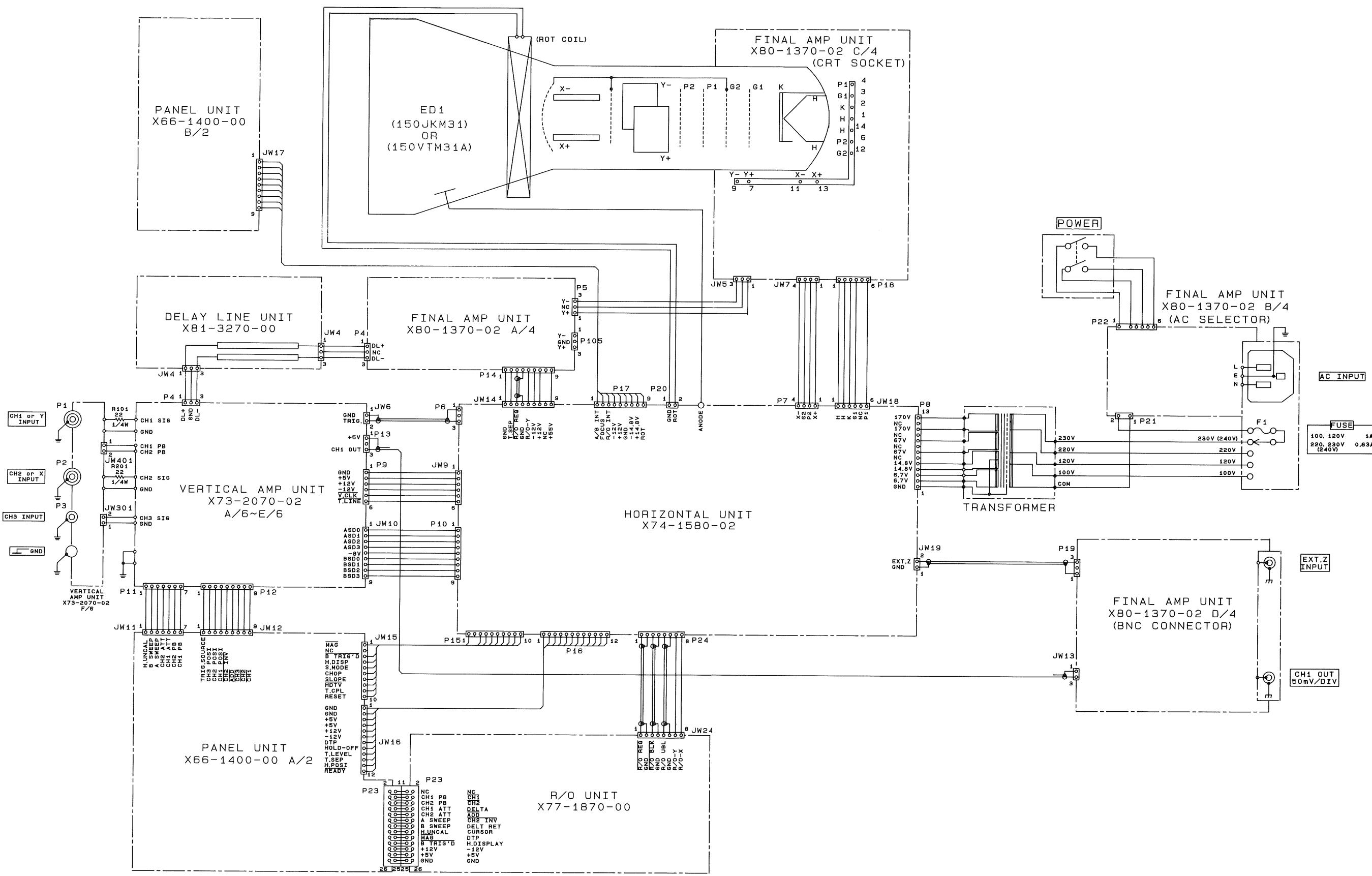
REF. NO	PARTS NO	NAME & DESCRIPTION				
R208	RD14BB2C100J	RES. CARBON	10	5%	1/6W	
R208	RD14BB2C151J	RES. CARBON	150	5%	1/6W	
R210	RD14BB2C470J	RES. CARBON	47	5%	1/6W	
R211	RD14BB2C104J	RES. CARBON	100K	5%	1/6W	
R212	RD14BB2C101J	RES. CARBON	100	5%	1/6W	
R213	RD14BB2E223J	RES. CARBON	22K	5%	1/4W	
R214	RD14BB2E223J	RES. CARBON	22K	5%	1/4W	
R215	RD14BB2C100J	RES. CARBON	10	5%	1/6W	
R216	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W	
R217	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W	
R218	RD14BB2C181J	RES. CARBON	180	5%	1/6W	
R219	RD14BB2C121J	RES. CARBON	120	5%	1/6W	
TC1	C05-0469-05	CAP. TRIMMER	10P			
TC62	C05-0472-05	CAP. TRIMMER	50P			
TH1	112-103-2FM	THERMISTOR				
TH2	112-103-2FM	THERMISTOR				
VR1	R12-1857-05	RES. SEMI FIXED 1K				
VR2	NO. USE					
VR3	R12-1860-05	RES. SEMI FIXED 1KB				
VR4	R12-0679-05	RES. SEMI FIXED 22KB				

DELAY LINE UNIT

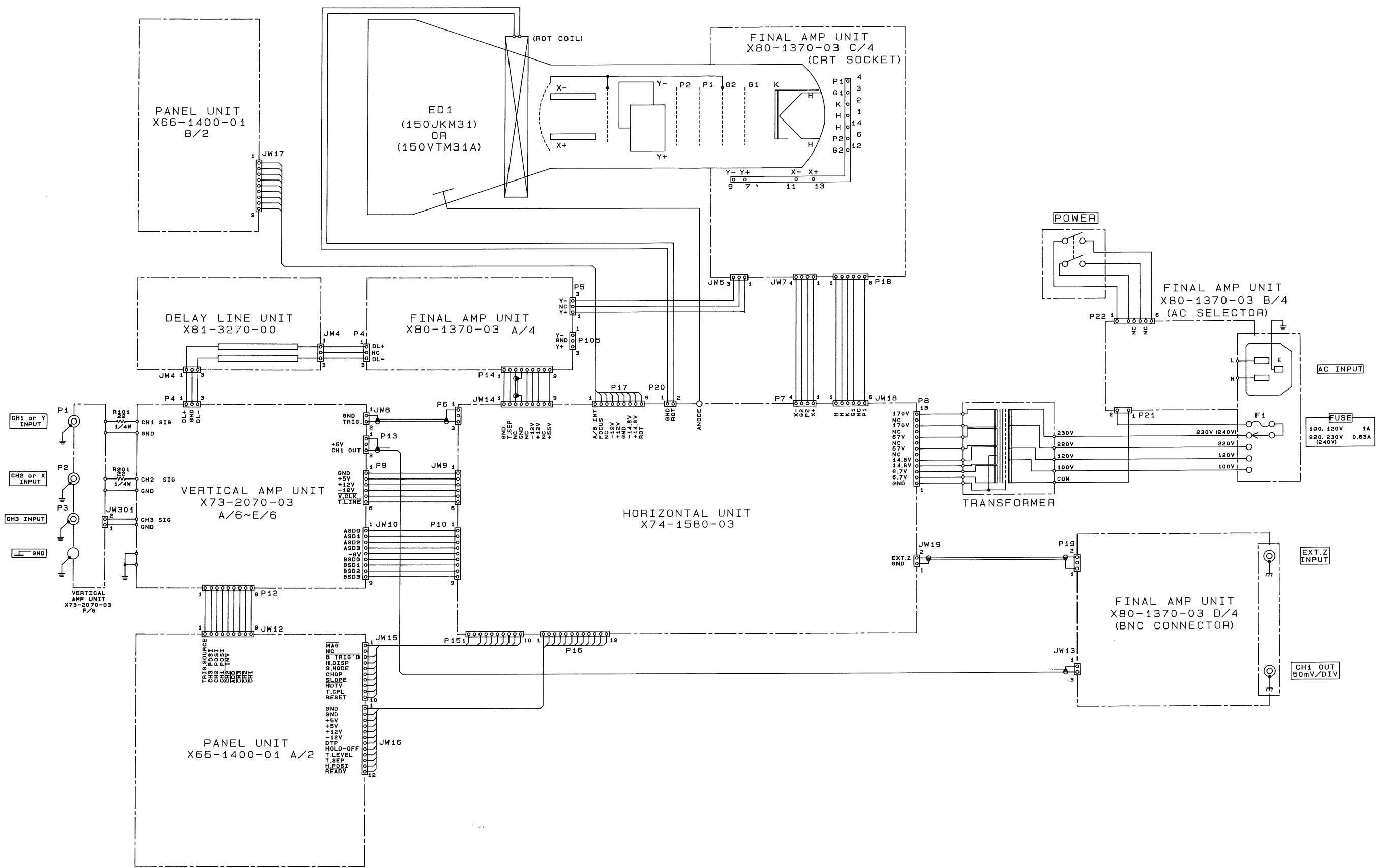
X81-3270-00

REF. NO	PARTS NO	NAME & DESCRIPTION				
	J73-0286-03	PCB (UNMOUNTED)				
	R82-1061-05	JUMPING RES. ZERO OHM (5MM)				
JW4	E38-1001-05	WIRE ASS'Y				

CS-5260 SCHEMATIC DIAGRAM

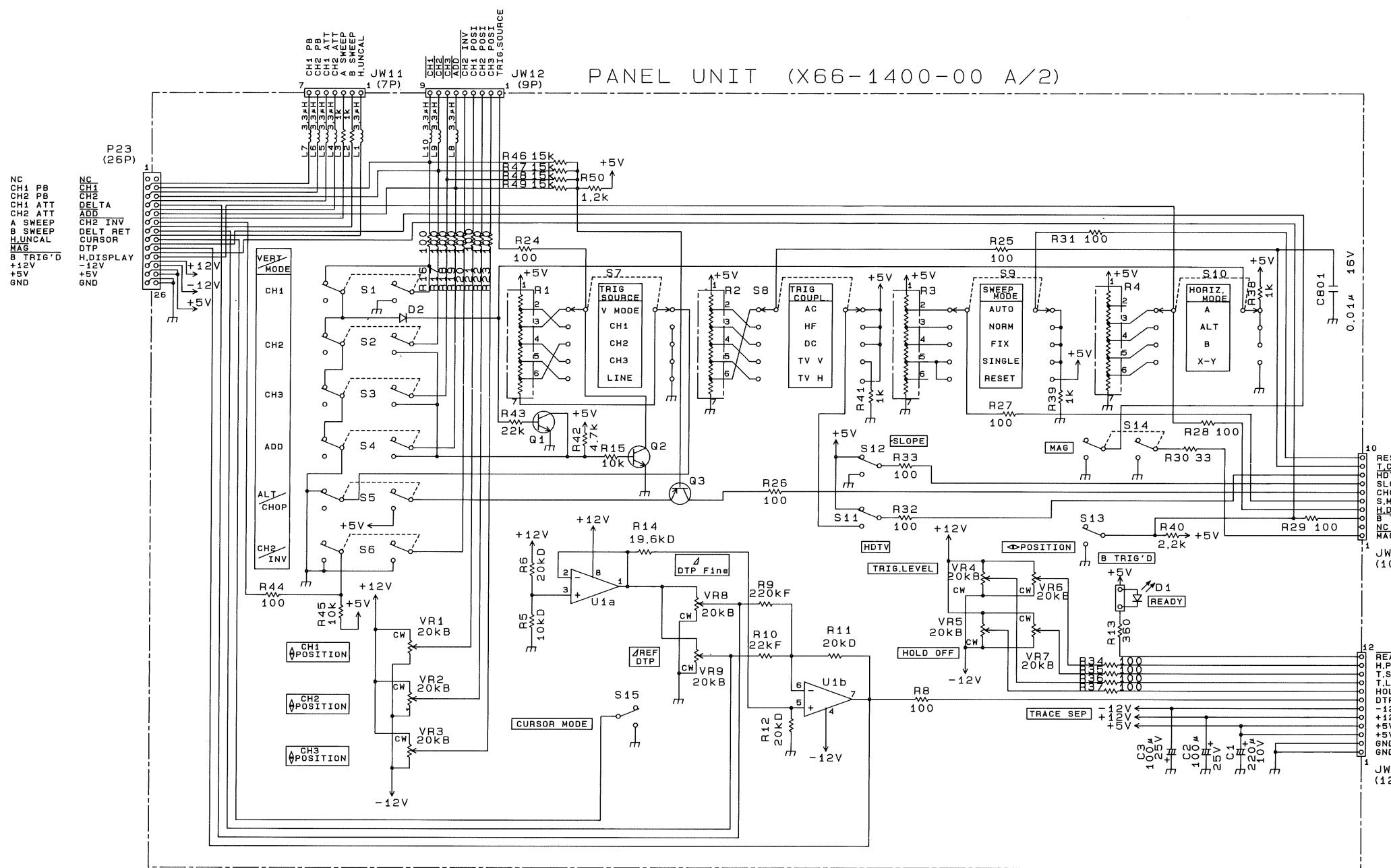


CS-5265 SCHEMATIC DIAGRAM

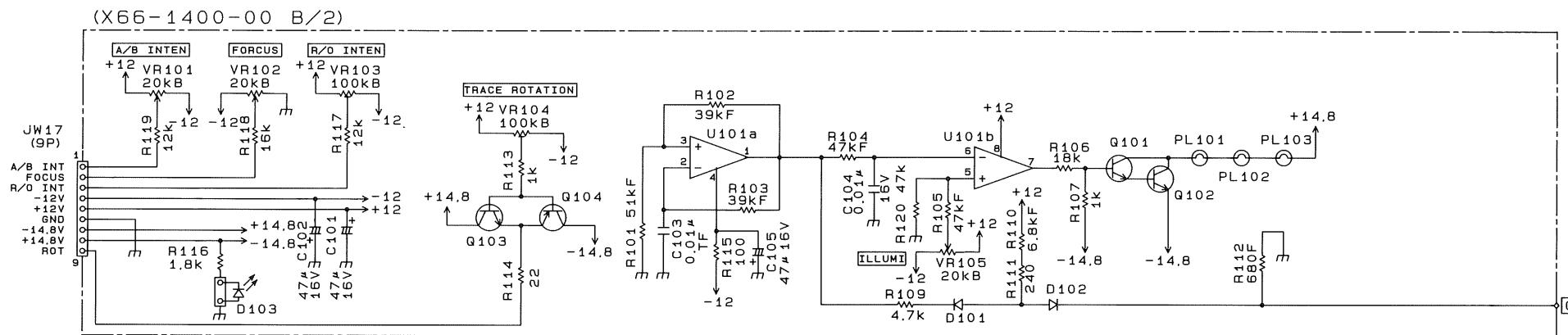


CS-5260 SCHEMATIC DIAGRAM

PANEL UNIT (X66-1400-00)



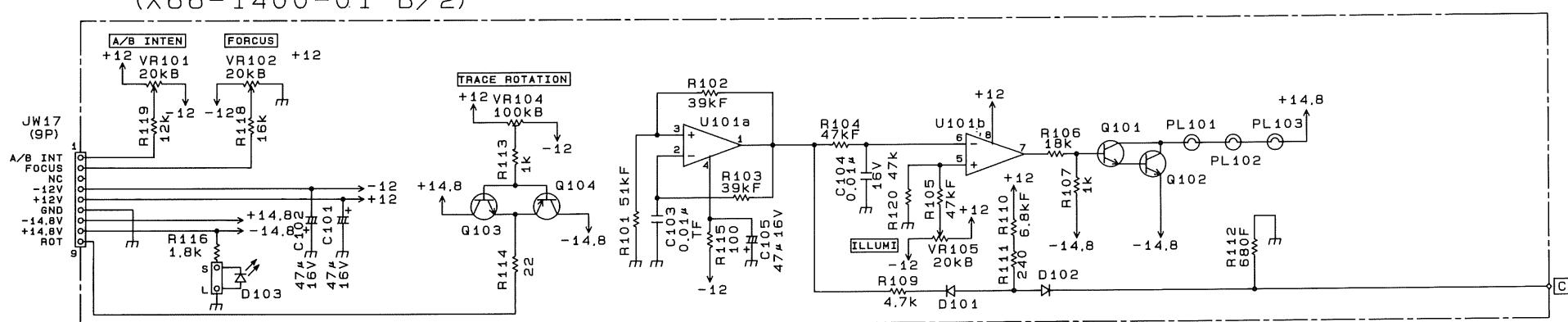
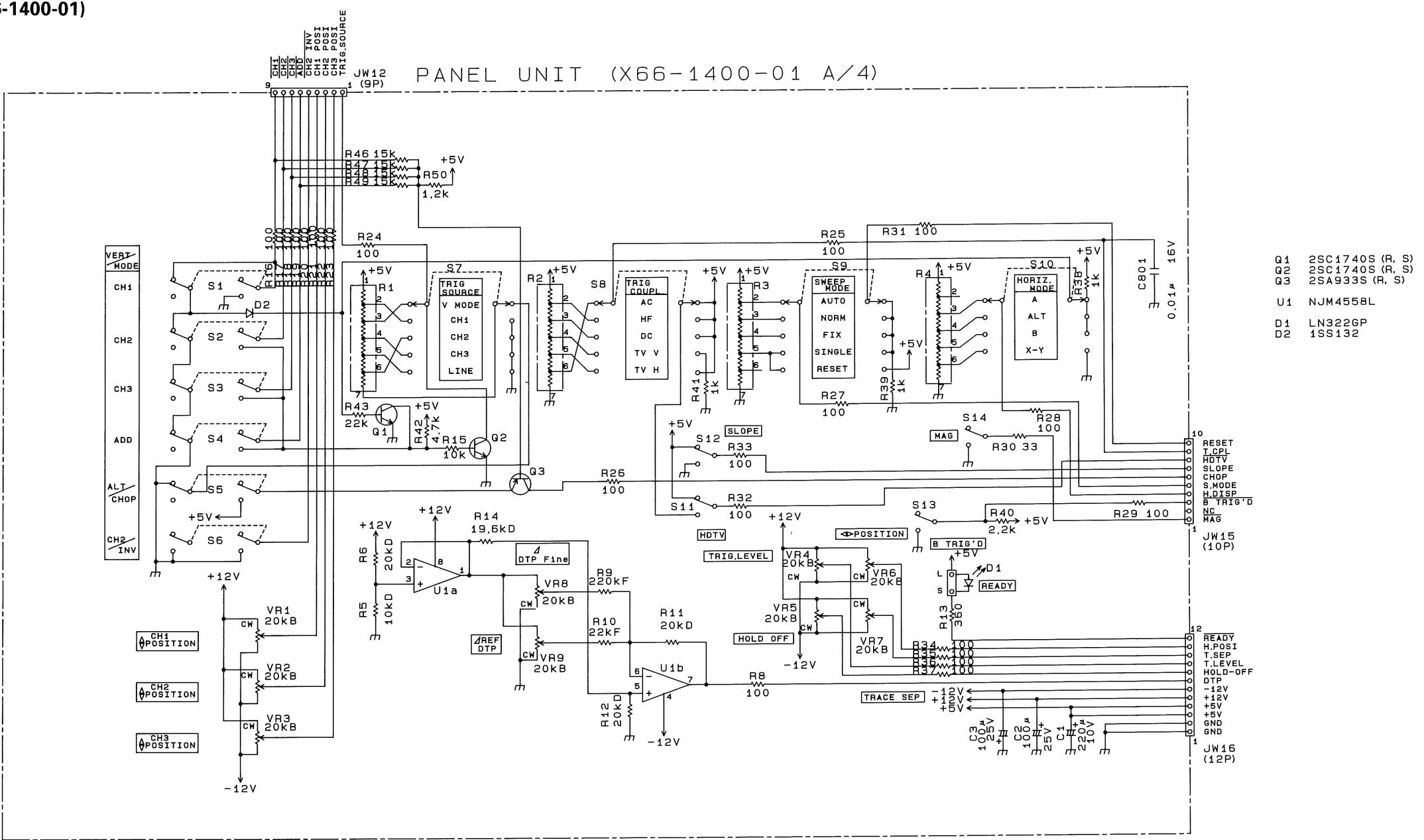
U1 : NJM4558L
Q1, 2 : 2SC1740S (R, S)
Q3 : 2SA933S (R, S)
D1 : LN322GP
D2 : ISS132



U101 : NJM4558L
Q101, 102 : 2SC1740 (R, S)
Q103 : 2SC1318A (R)
Q104 : 2SA720A (R)
D101, 102 : ISS132
D103 : LN322GP

CS-5265 SCHEMATIC DIAGRAM

PANEL UNIT (X66-1400-01)

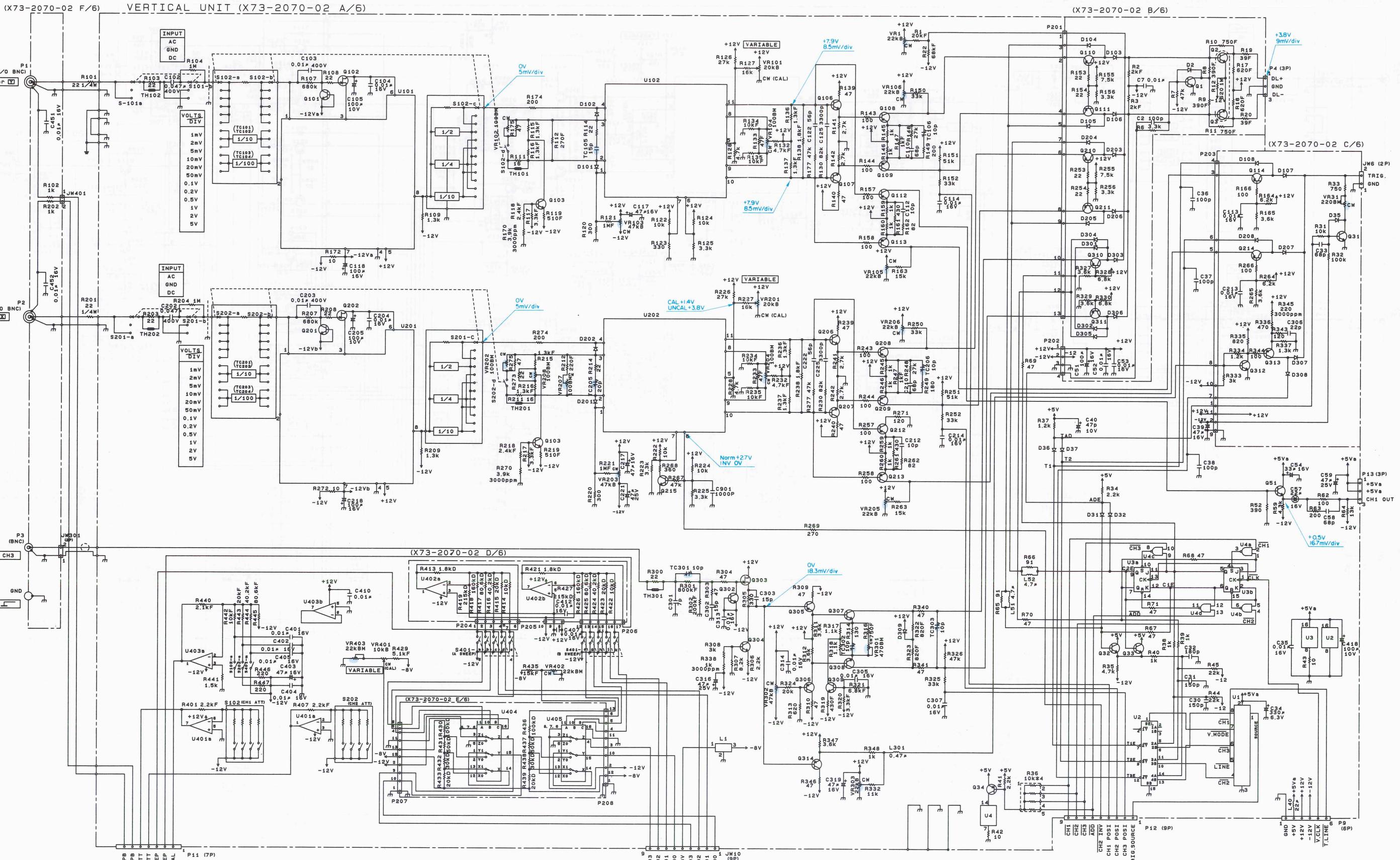


U101 NJM4558L
Q101 2SC1740S (R, S)
Q102 2SC1740S (R, S)
Q103 2SC1318A (R)
Q104 2SA720A (R)

D101 1SS132
D102 1SS132
D103 LN322GP

VERTICAL UNIT (X73-2070-02)

CS-5260 SCHEMATIC DIAGRAM



CH
CH CH₂
CH₂ A S
B S H.U.

114

14483

24 22 24

22247

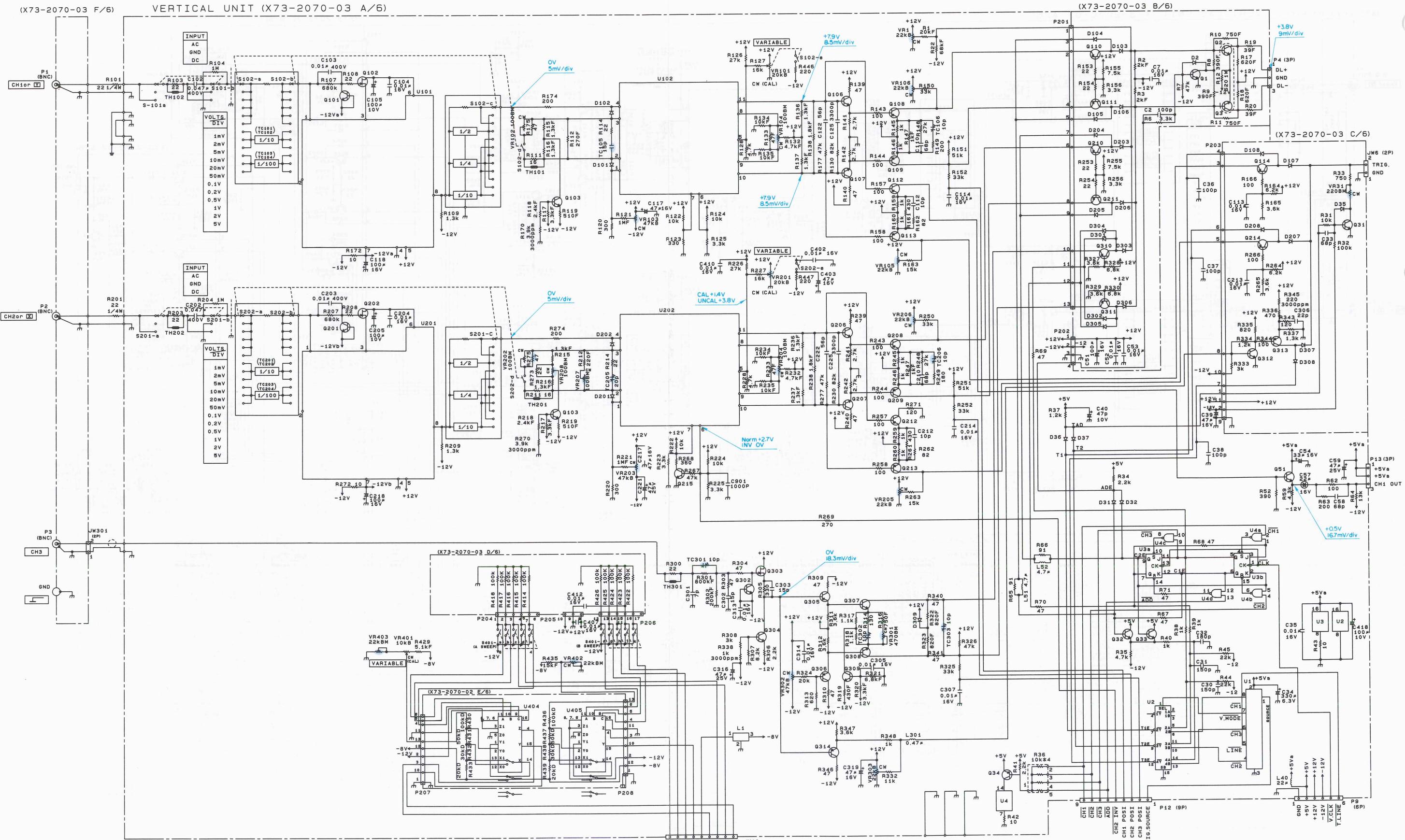
2 (B - S)

Saito et al.

242-243

VERTICAL UNIT (X73-2070-03)

CS-5265 SCHEMATIC DIAGRAM

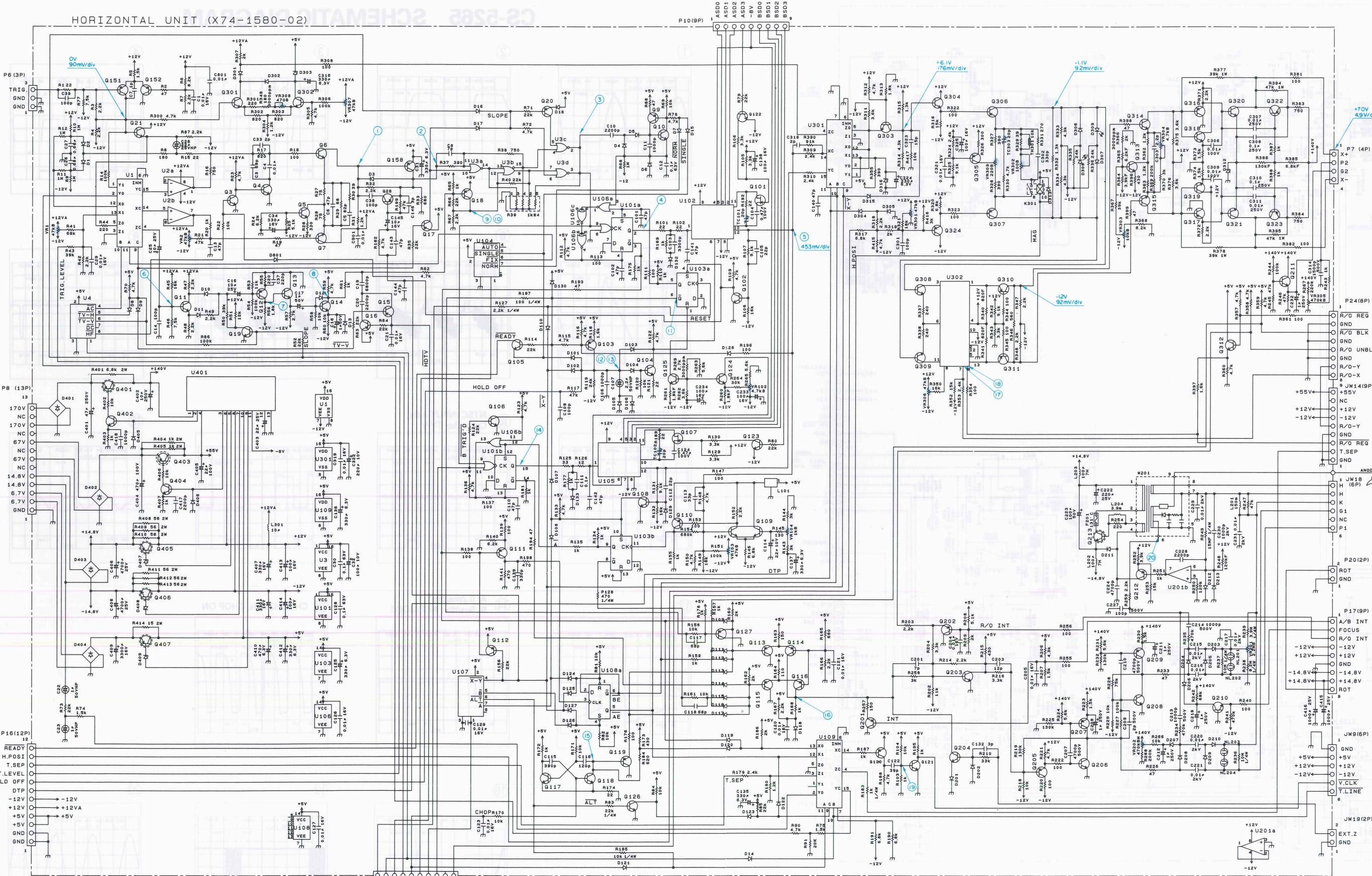


U1 : KMS01
 U2 : SN74LS158N
 U3 : SN74LS112AN
 U4 : SN74LS00N
 U101, 201 : KMC13
 U102, 202 : KMC12
 U404, 405 : TC4053BP

Q1, 33, 215 : 2SC1740S (R, S)
 Q2, 3, 106, 107, 206, 207 : 2SC5979 (D)
 Q32 : 2SC3066 (G)
 Q34 : 2SA933S (K)
 Q51, 101, 201, 302 : 2SC1923 (O)
 Q102, 202, 303 : 2SK404 (E)

Q103, 203, 304, 307~309, 312 : 2SC1907
 Q108~111, 114, 308~311, 314, 305 : 2SA1459 (K)
 Q112, 113, 212, 214 : 2SA1161
 TH101, 201 : 112-102-2
 TH102, 202, 301 : 112-201-2FM

HORIZONTAL UNIT (X74-1580-02)



U1 : TC4053BP
 U2 : NJM0728D
 U3 : MC10H102L
 U4, 104, 107 : KMS01
 U101 : MC10H131L
 U102, 105 : KMD05
 U103, 108 : SN74ALS74AN
 U106 : SN74ALS02N
 U109, 301 : T74HC4053AP
 U201 : NJM4556D
 U302 : KMG01
 U401 : KMA02

Q3, 10, 11, 13, 14, 19, 104, 306
 Q3, 10, 11, 13, 14, 19, 104, 306
 Q3, 10, 11, 13, 14, 19, 104, 306
 Q4, 102, 108, 117, 118, 121, 203
 Q6, 7 : 2SC3779 (D)
 Q9, 28, 110, 120, 150, 160, 150, 160
 Q12, 15, 16, 113, 127, 127, 307
 Q17, 18, 20, 103, 111, 112, 119, 201
 Q301, 174, 174, 174, 174, 174, 174
 Q302, 321 : 2SC4732 (E)
 Q322, 323 : 2SA1828 (E)
 Q401 : 2SA1499 (P)

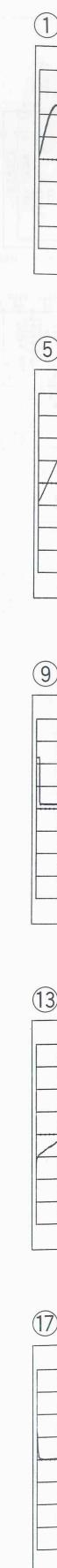
Q101, 107 : 2SK170 (V)
 Q109 : 2SC3056 (G)
 Q206, 208 : 2SC2910 (S)
 Q207, 209 : 2SA1208 (S)
 Q210, 211, 402, 404 : 2SC2551 (O)
 Q213 : 2SD613 (E)
 Q320, 321 : 2SC4732 (E)
 Q322, 323 : 2SA1828 (E)
 Q401 : 2SA1499 (P)

Q21, 314, 315, 318, 319 : 2SC1007
 Q403, 407 : 2SA1304
 Q406 : 2SD1406 (Y)
 D4-5, 12, 108, 144, 130, 132, 133
 D301, 306, 307, 301 : S4V700
 D401, 402, 404 : S4V800
 D407, 408 : MTZ13JC
 D409 : MTZ7.5JA

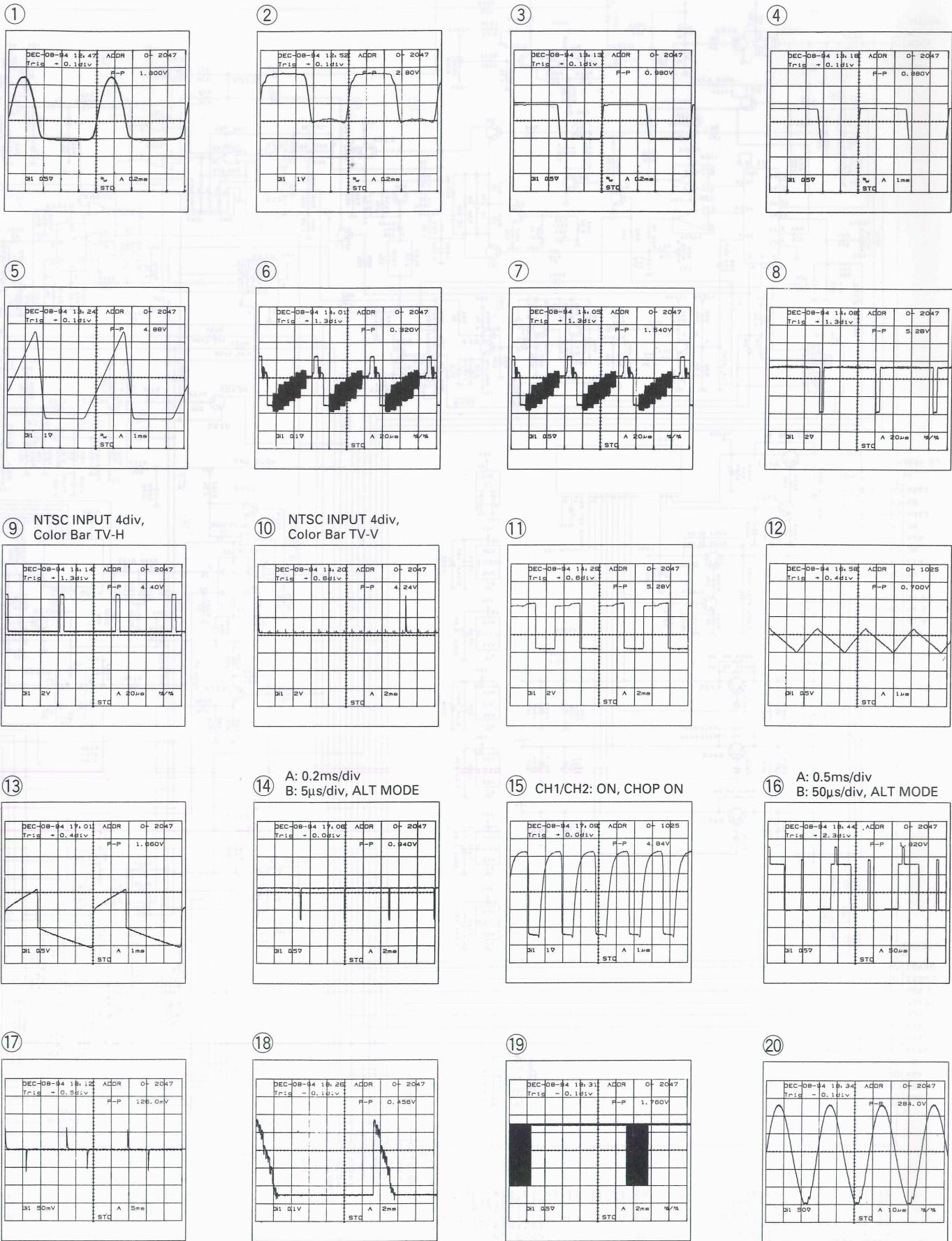
D401, 402, 404 : S4V800
 D407, 408 : MTZ13JC
 D409 : MTZ7.5JA

TH301 : 112-103-2FM
 D203~210 : ISS83

NL201~204 : NE-38B

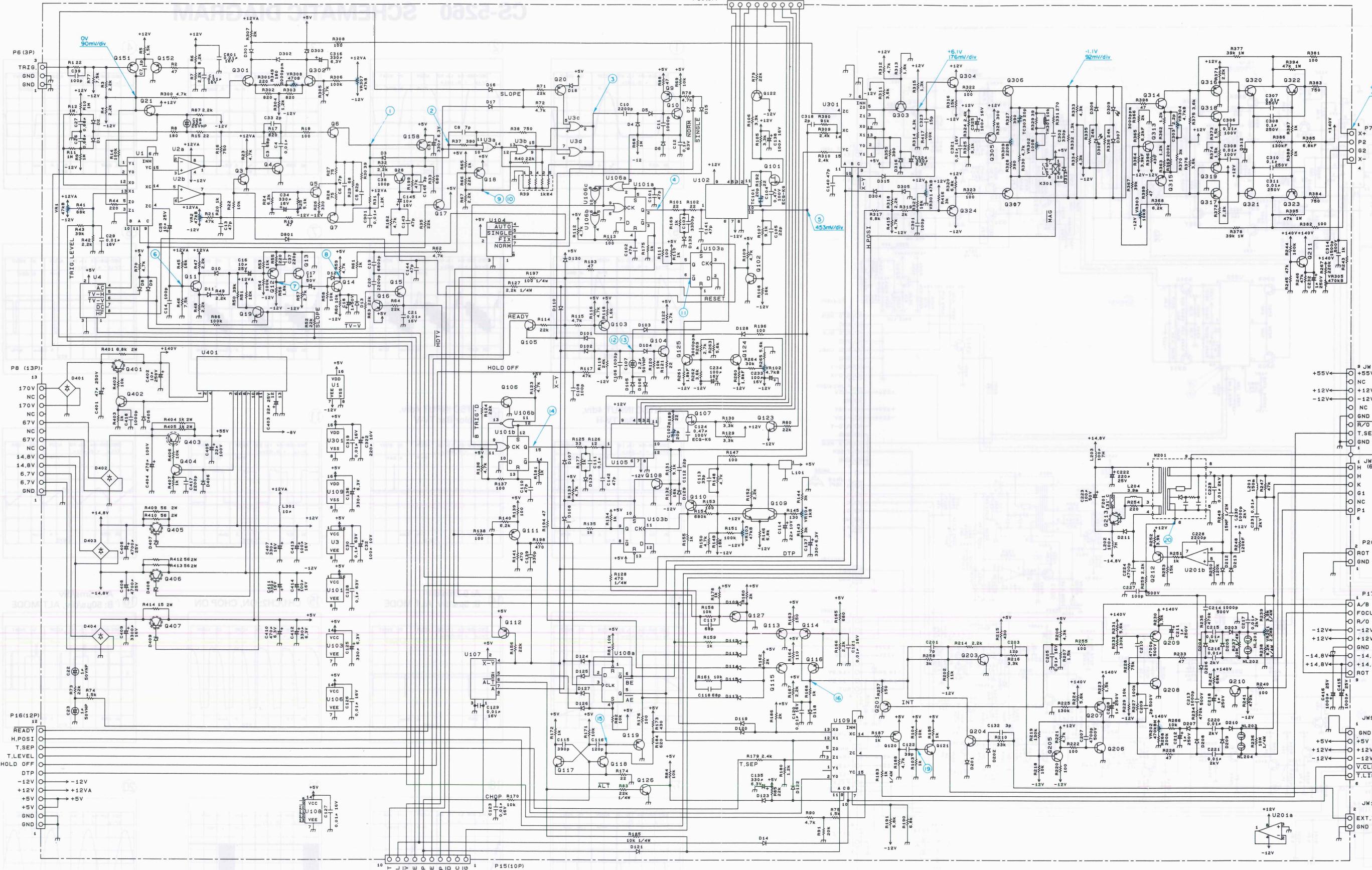


CS-5260 SCHEMATIC DIAGRAM



HORIZONTAL UNIT (X74-1580-03)

HORIZONTAL UNIT (X 74-1583-03)



(1)

(5)

(9) NTSC INPUT 4div,
Color Bar TV-H

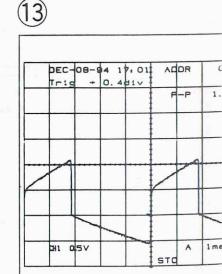
(13)

U1	: 4053BP
U2	: NJM072BD
U3	: MC10H102L
U4, 107, 104	: KMD05
U101	: MC10H431L
U102, 105	: KMD05
U103, 108	: SN74ALS74AN
U106	: SN74ALS02N
U109, 301	: TC74HC4053AP
U201	: NJM4558D
U401	: KMA02

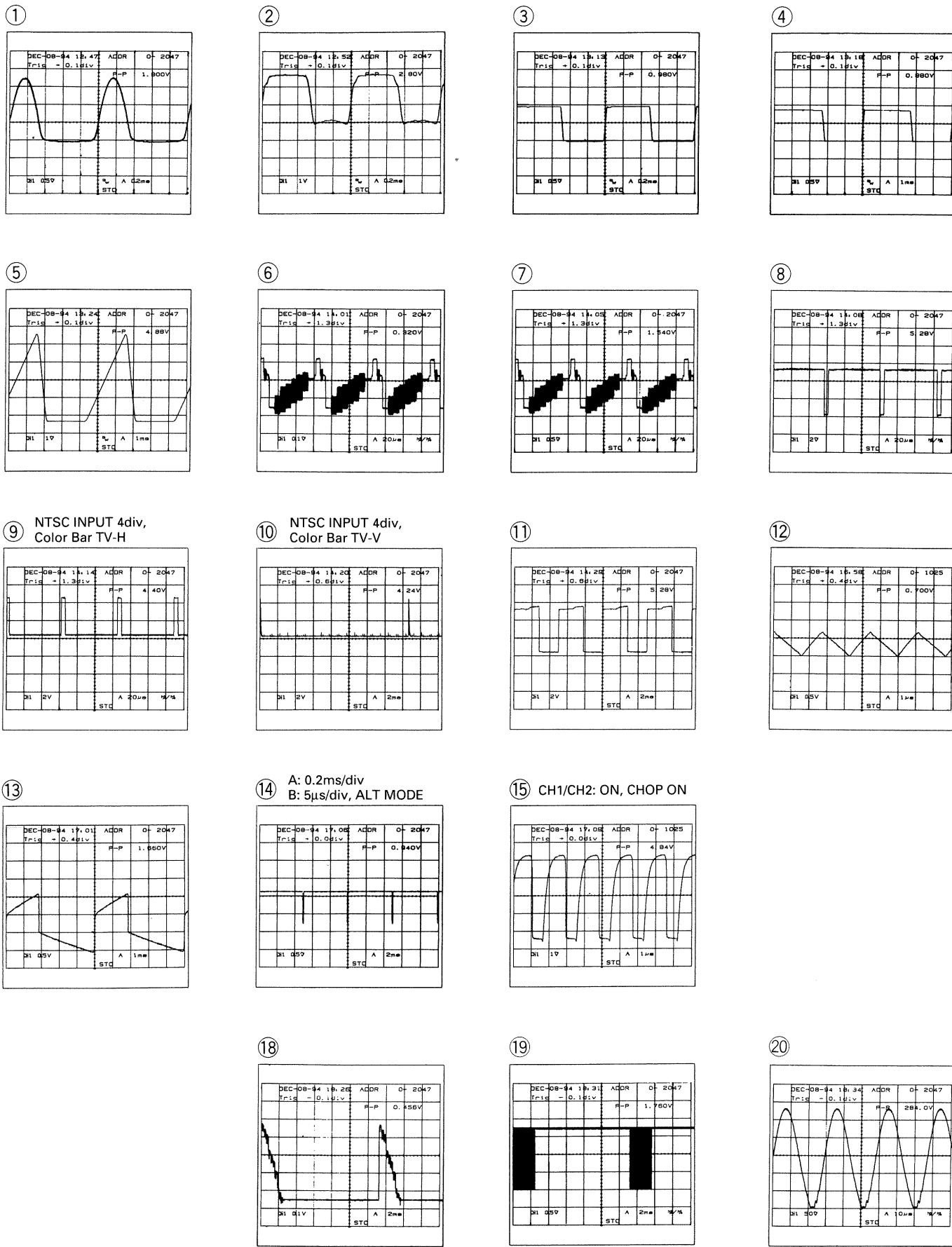
Q3, 10, 11, 13, 14, 19, 104~106, 122	
123~126, 204, 304, 304~305, 305~306, 307	
306, 307, 308, 309, 309~310, 310~311, 311~312, 312~313	
313~314, 314~315, 315~316, 316~317, 317~318, 318~319	
319~320, 320~321, 321~322, 322~323	

Q21, 314, 315, 316, 317, 318	: 2SA1304
Q101, 107	: 2SK170 (V)
Q109	: 2SC3066 (G)
Q205, 208	: 2SC2910 (S)
Q207, 209	: 2SA120B (S)
Q210, 211, 402, 404	: 2SC2551 (O)
Q213	: 2SD613 (E)
Q320, 321	: 2SC4732 (E)
Q322, 323	: 2SA1828 (E)
Q401	: 2SA1499 (P)

Q403, 407	: 2SB1015 (Y)
Q406	: 2SD1406 (Y)
D101~105	: 2SC2551 (O)
D106~110	: 2SD613 (E)
D109~113	: 2SA1005 (K)
D114~118	: 2SA1005 (K)
D119~123	: 2SA1005 (K)
D124~128	: 2SC2551 (O)
D129~133	: 2SA1005 (K)
D134~138	: 2SC2551 (O)
D139~143	: 2SA1005 (K)
D144~148	: 2SC2551 (O)
D149~153	: 2SA1005 (K)
D154~158	: 2SC2551 (O)
D159~163	: 2SA1005 (K)
D164~168	: 2SC2551 (O)
D169~173	: 2SA1005 (K)
D174~178	: 2SC2551 (O)
D179~183	: 2SA1005 (K)
D184~188	: 2SC2551 (O)
D189~193	: 2SA1005 (K)
D194~198	: 2SC2551 (O)
D199~203	: 2SA1005 (K)
D204~208	: 2SC2551 (O)
D209~213	: 2SA1005 (K)
D214~218	: 2SC2551 (O)
D219~223	: 2SA1005 (K)
D224~228	: 2SC2551 (O)
D229~233	: 2SA1005 (K)
D234~238	: 2SC2551 (O)
D239~243	: 2SA1005 (K)
D244~248	: 2SC2551 (O)
D249~253	: 2SA1005 (K)
D254~258	: 2SC2551 (O)
D259~263	: 2SA1005 (K)
D264~268	: 2SC2551 (O)
D269~273	: 2SA1005 (K)
D274~278	: 2SC2551 (O)
D279~283	: 2SA1005 (K)
D284~288	: 2SC2551 (O)
D289~293	: 2SA1005 (K)
D294~298	: 2SC2551 (O)
D299~303	: 2SA1005 (K)
D304~308	: 2SC2551 (O)
D309~313	: 2SA1005 (K)
D314~318	: 2SC2551 (O)
D319~323	: 2SA1005 (K)
D324~328	: 2SC2551 (O)
D329~333	: 2SA1005 (K)
D334~338	: 2SC2551 (O)
D339~343	: 2SA1005 (K)
D344~348	: 2SC2551 (O)
D349~353	: 2SA1005 (K)
D354~358	: 2SC2551 (O)
D359~363	: 2SA1005 (K)
D364~368	: 2SC2551 (O)
D369~373	: 2SA1005 (K)
D374~378	: 2SC2551 (O)
D379~383	: 2SA1005 (K)
D384~388	: 2SC2551 (O)
D389~393	: 2SA1005 (K)
D394~398	: 2SC2551 (O)
D399~403	: 2SA1005 (K)
D404~408	: 2SC2551 (O)
D409	: 2SA1005 (K)



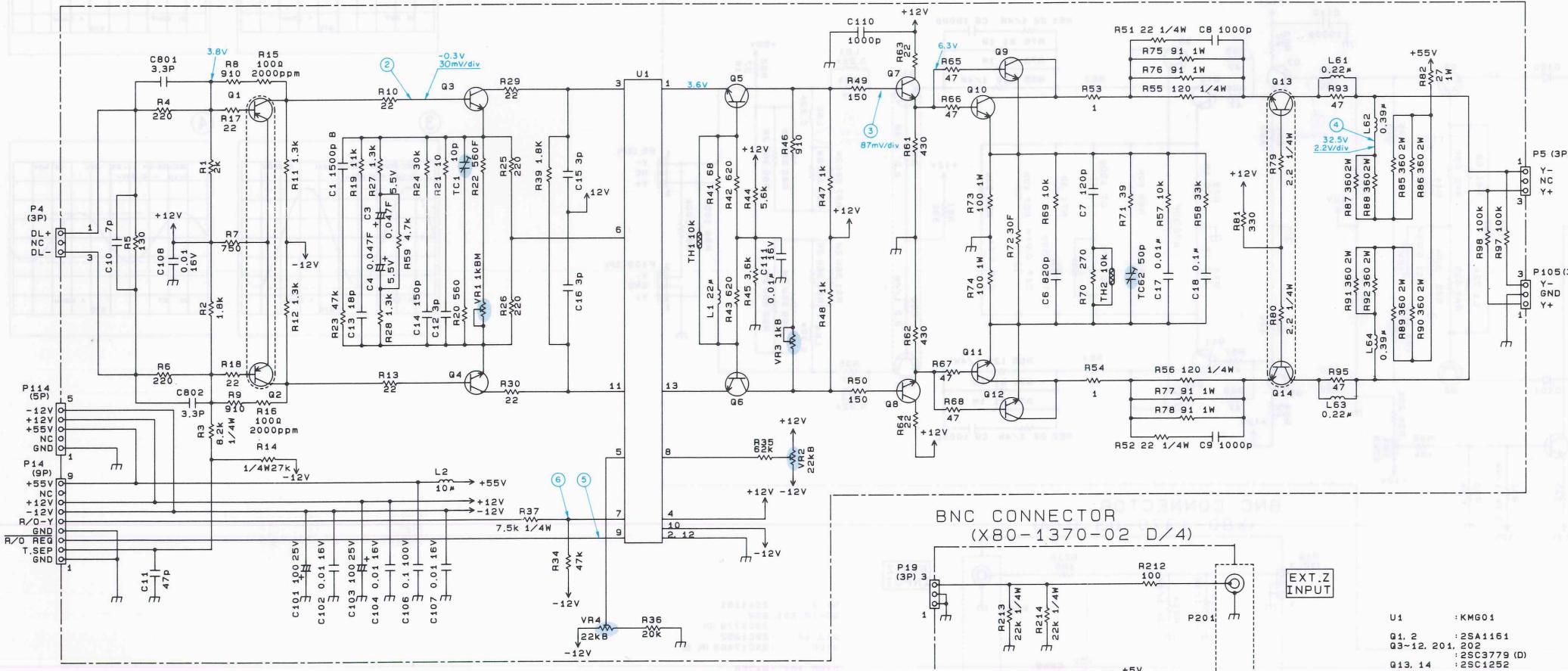
CS-5265 SCHEMATIC DIAGRAM



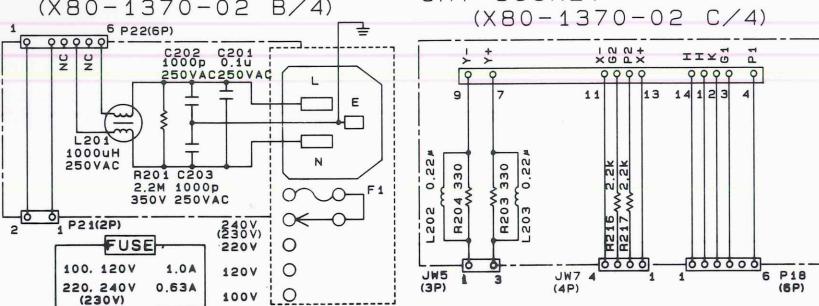
CS-5260 SCHEMATIC DIAGRAM

FINAL AMP UNIT (X80-1370-02)

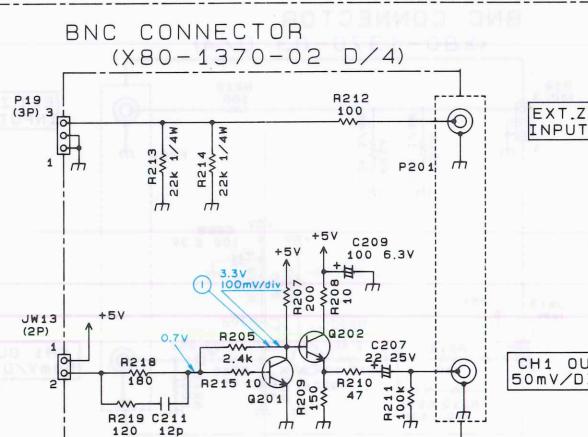
FINAL AMP UNIT (X80-1370-02 A/4



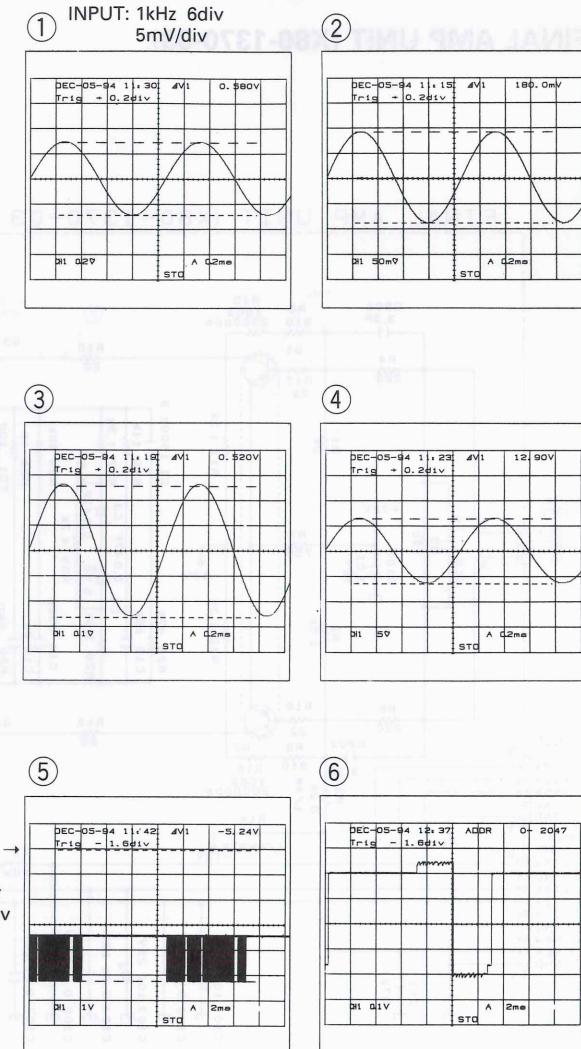
AC SELECTOR



CRT SOCKET
(X80-1370-02 C)



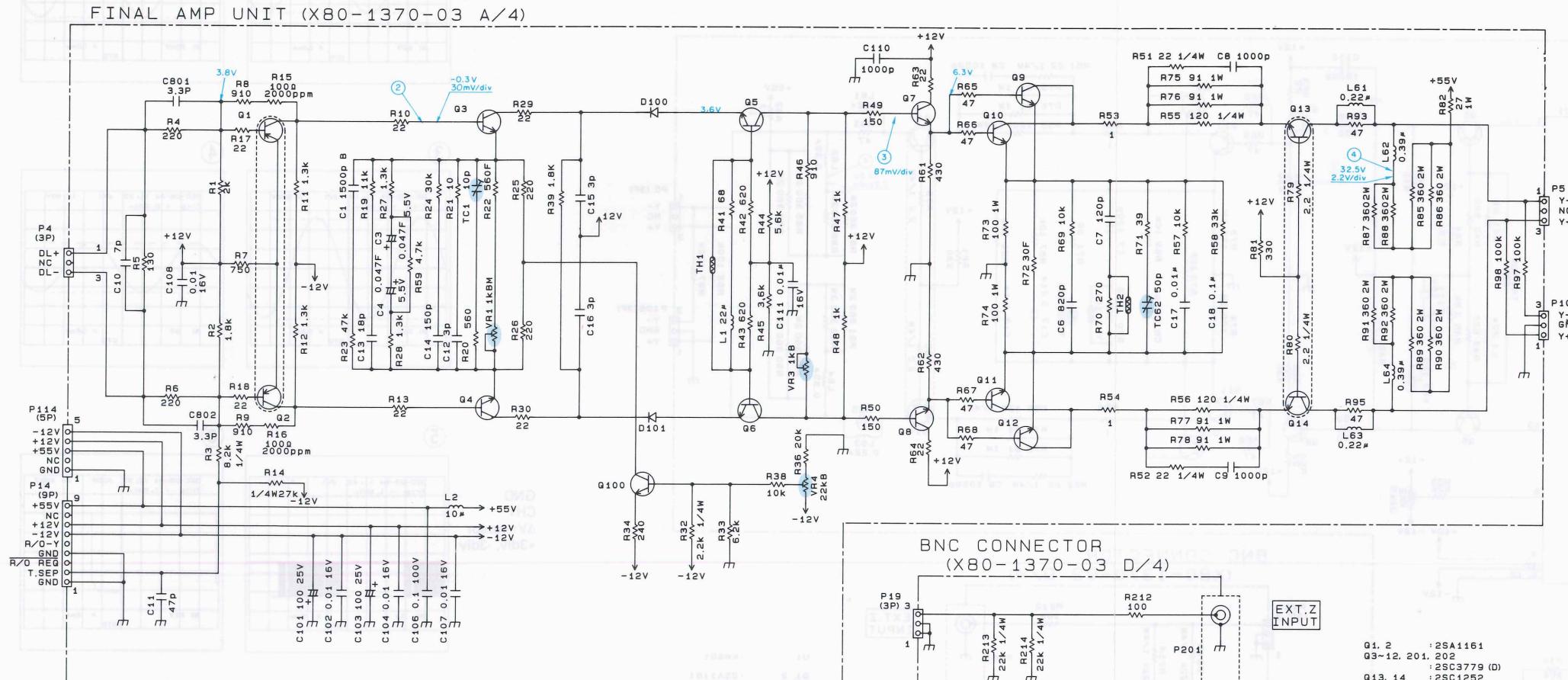
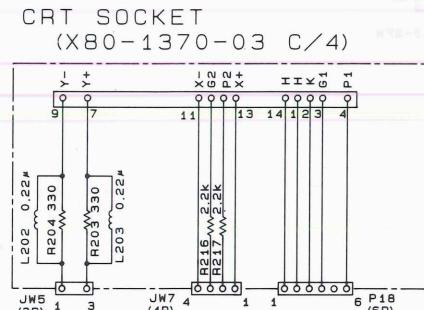
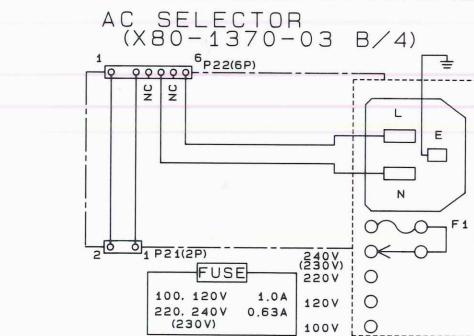
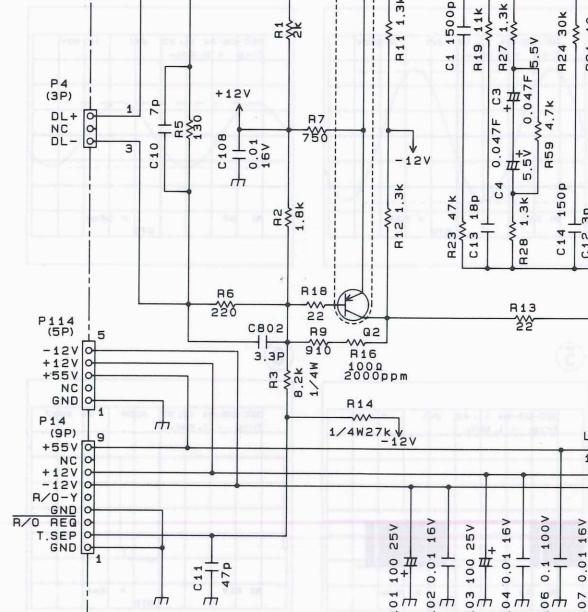
GND →
CH1
 ΔV_1 cursor
+3div, -3div



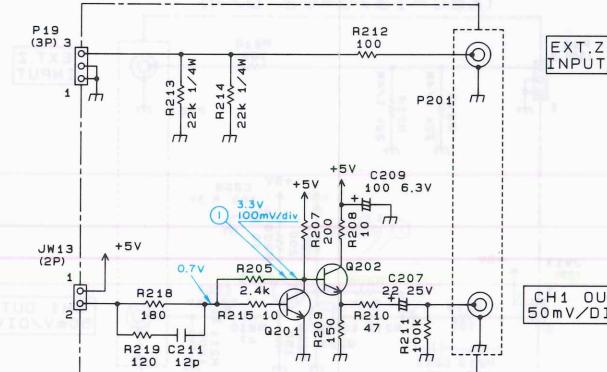
CS-5265 SCHEMATIC DIAGRAM

FINAL AMP UNIT (X80-1370-03)

FINAL AMP UNIT (X80-1370-03 A/4)



BNC CONNECTOR
(X80-1370-03 D/4)

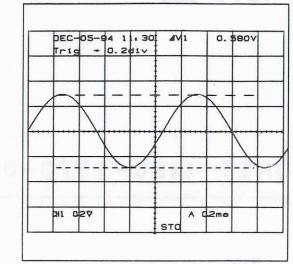


Q1, 2 : 2SA1161
Q3-12, 201, 202 : 2SC3779 (D)
Q13, 14 : 2SC1252
Q100 : 2SC1740S (R, S)

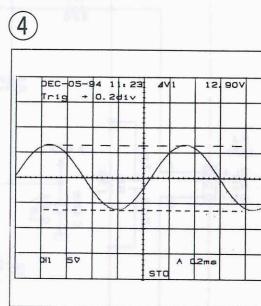
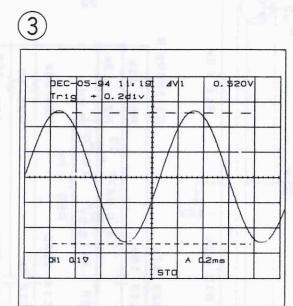
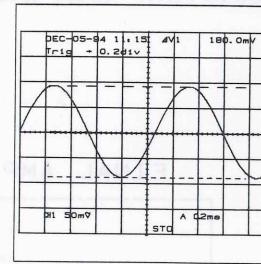
D100, 101 : MA700
TH1, 2 : 112-103-2FM

CH1 OUT
50mV/DIV

① INPUT: 1kHz 6div
5mV/div

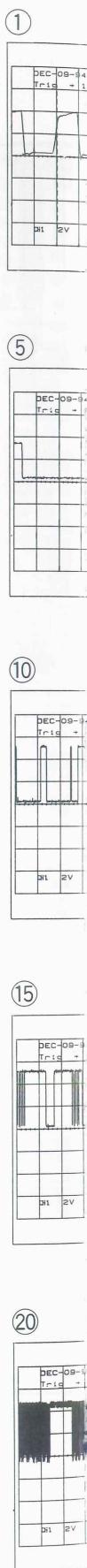
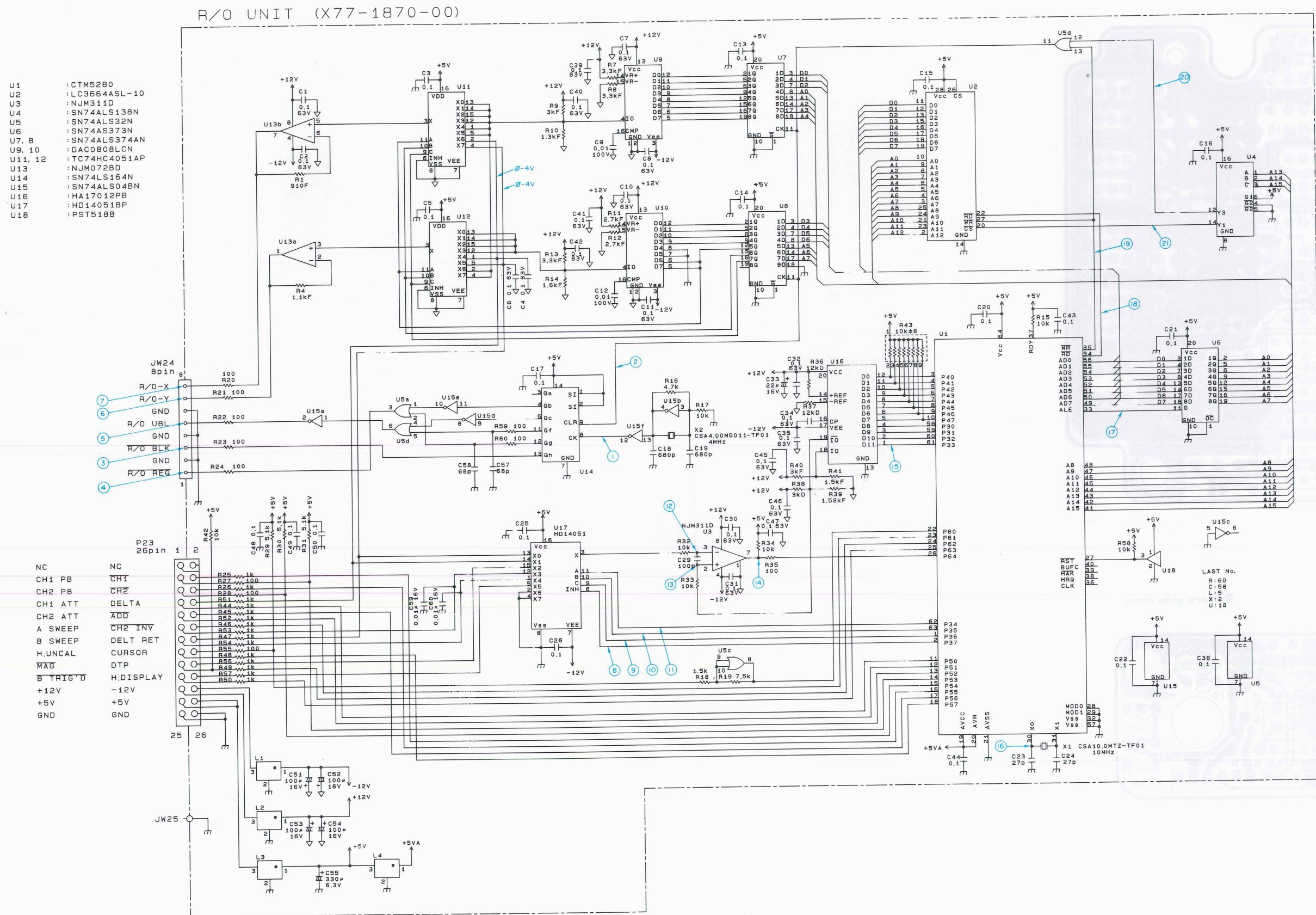


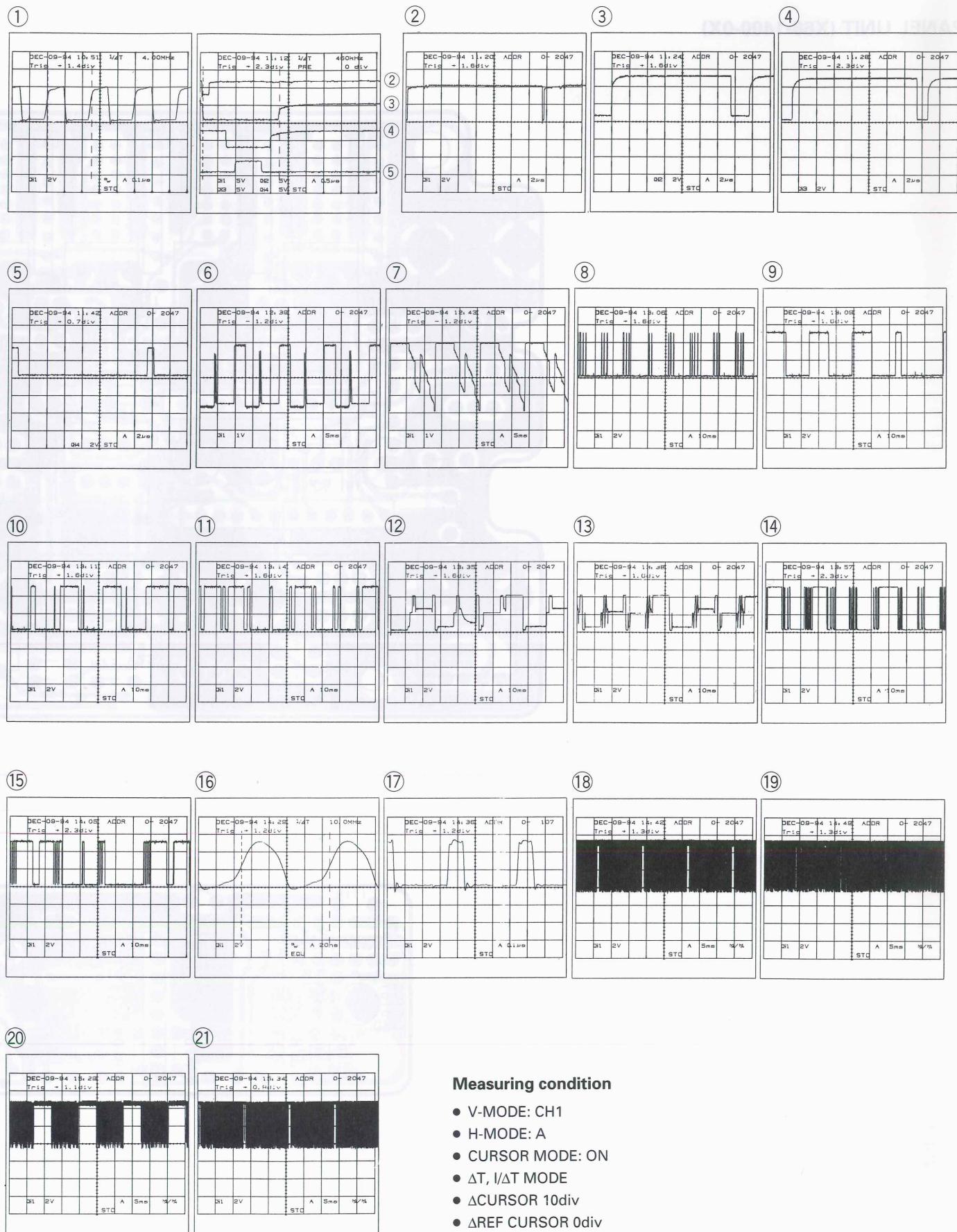
②



CS-5260 SCHEMATIC DIAGRAM

R/O UNIT (X77-1870-00)



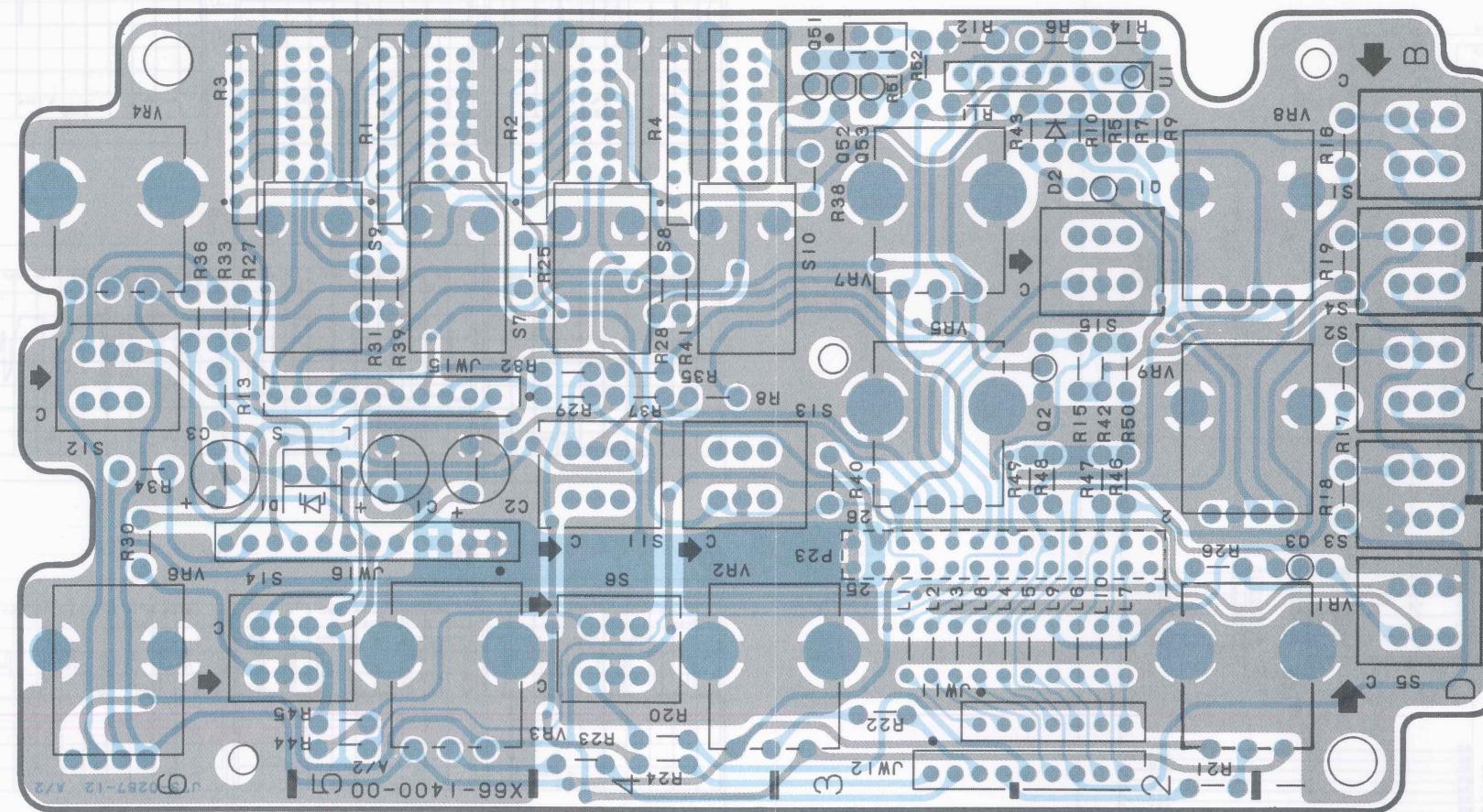


P.C. BOARD

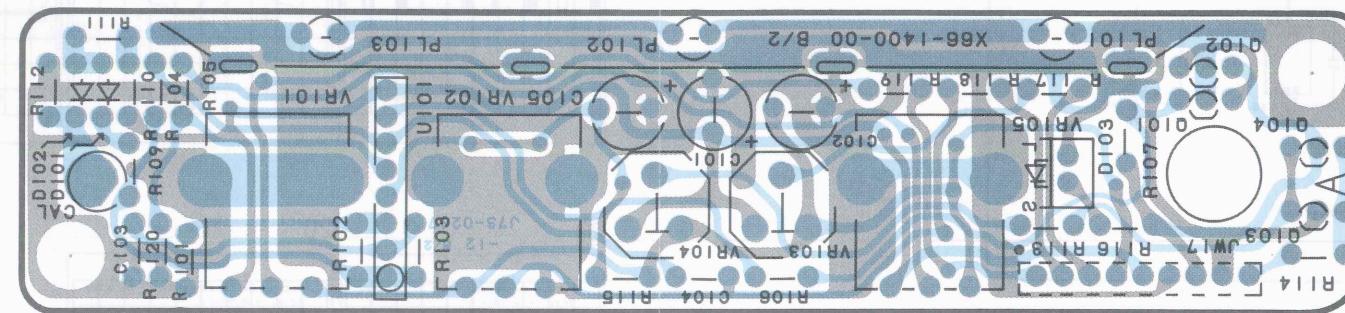
CS-2580 SCHEMATIC DIAGRAM

PANEL UNIT (X66-1400-0X)

Pattern side view



Pattern side view

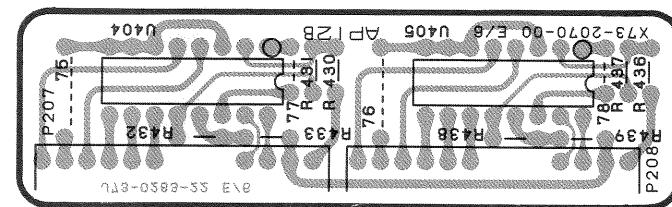
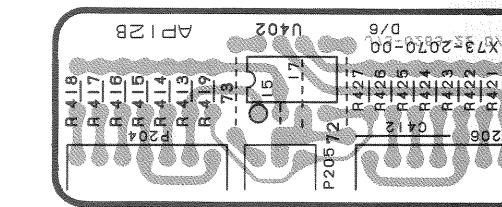
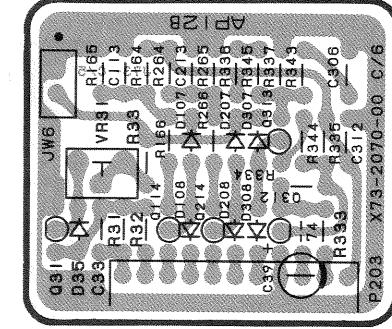
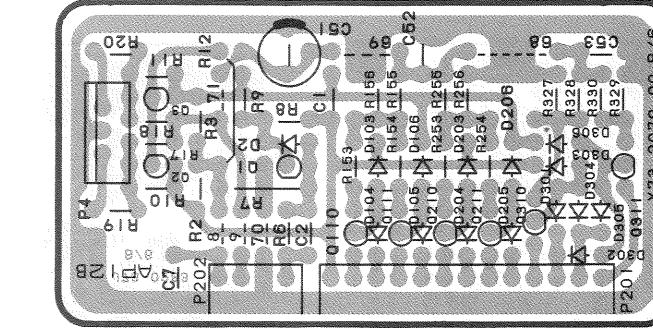
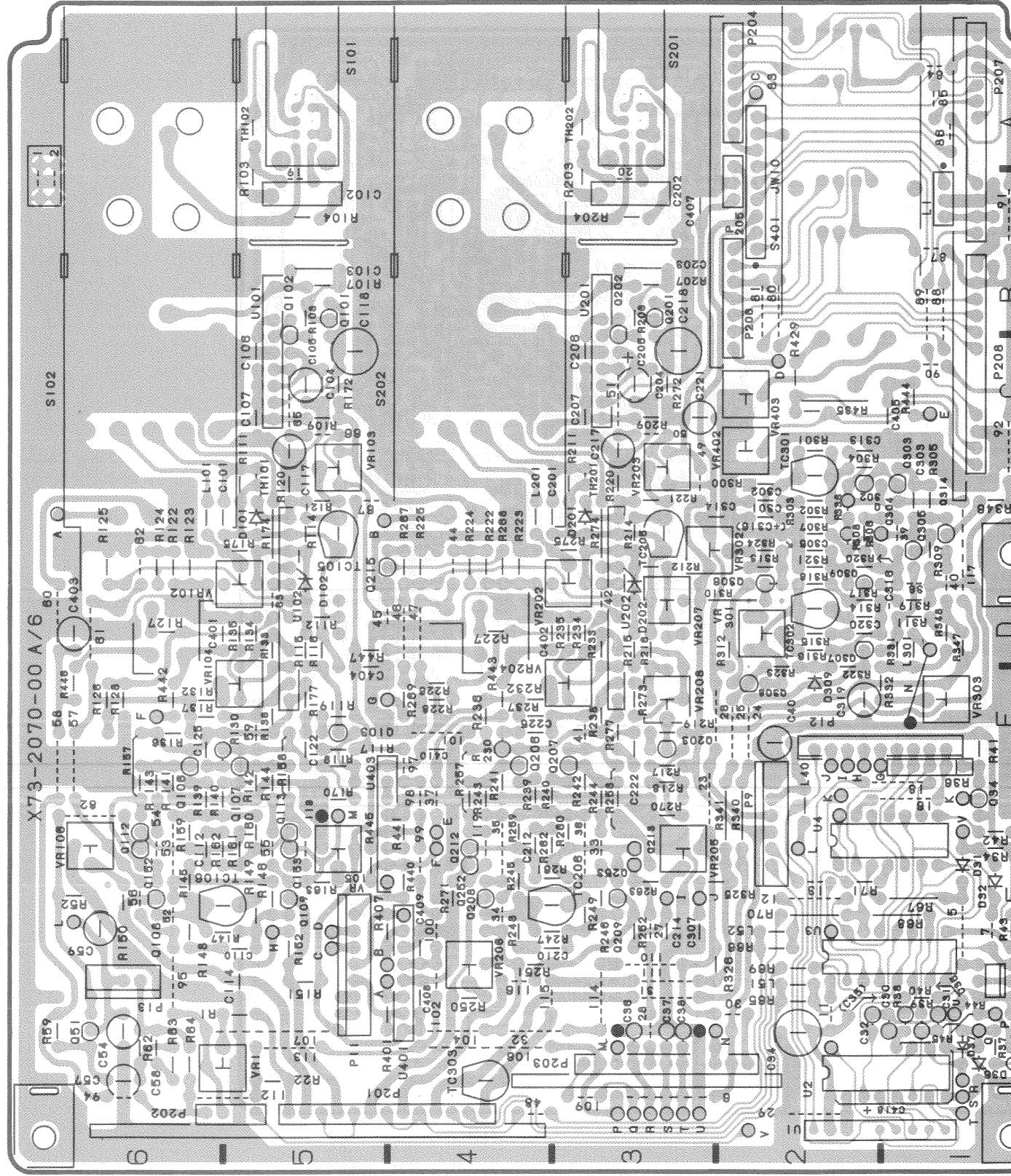


- MODE CH1
- MODE A
- CURSOR MODE ON
- ALT ALT MODE
- TURBO 1000
- VBE CURSOR 0914

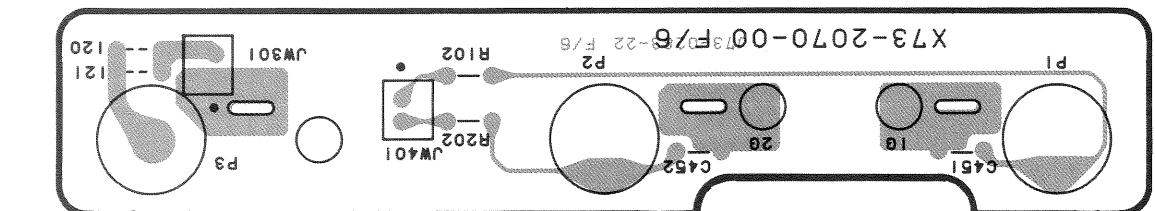
P.C. BOAR

VERTICAL UNIT (X73-2070-0X)

Pattern side vi



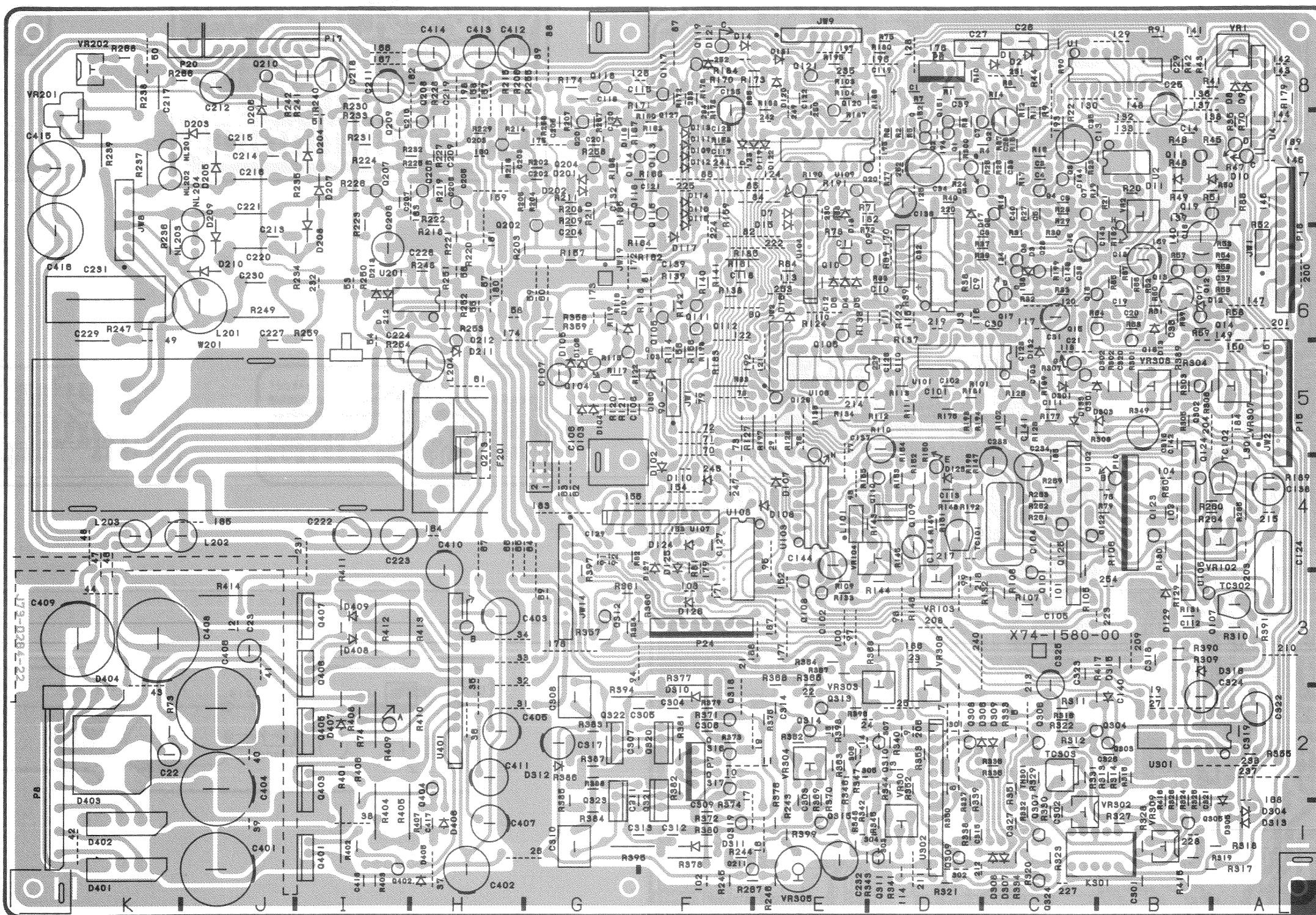
Pattern side view



P.C. BOARD

HORIZONTAL UNIT (X74-1580-0X)

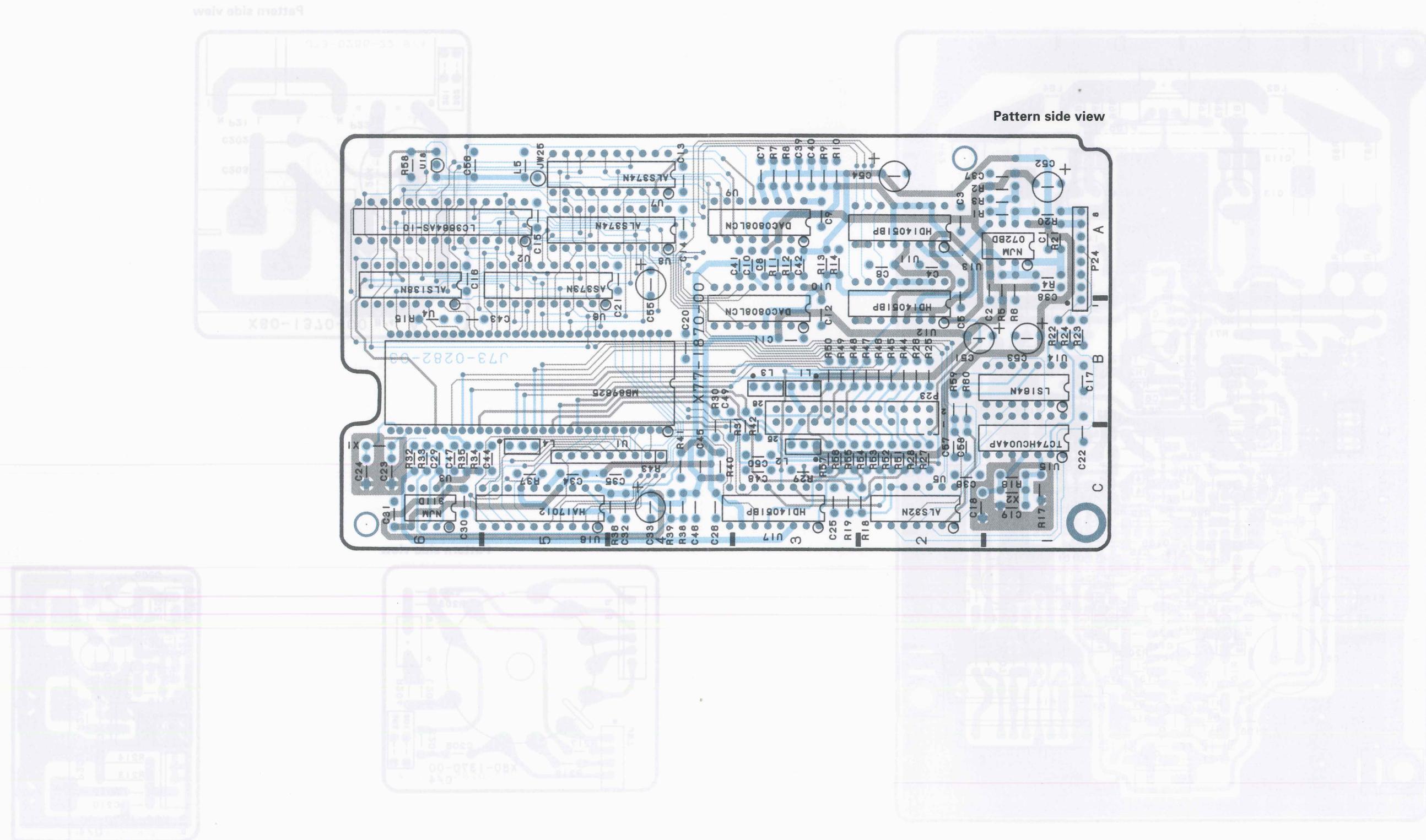
Pattern side view



P.C. BOARD

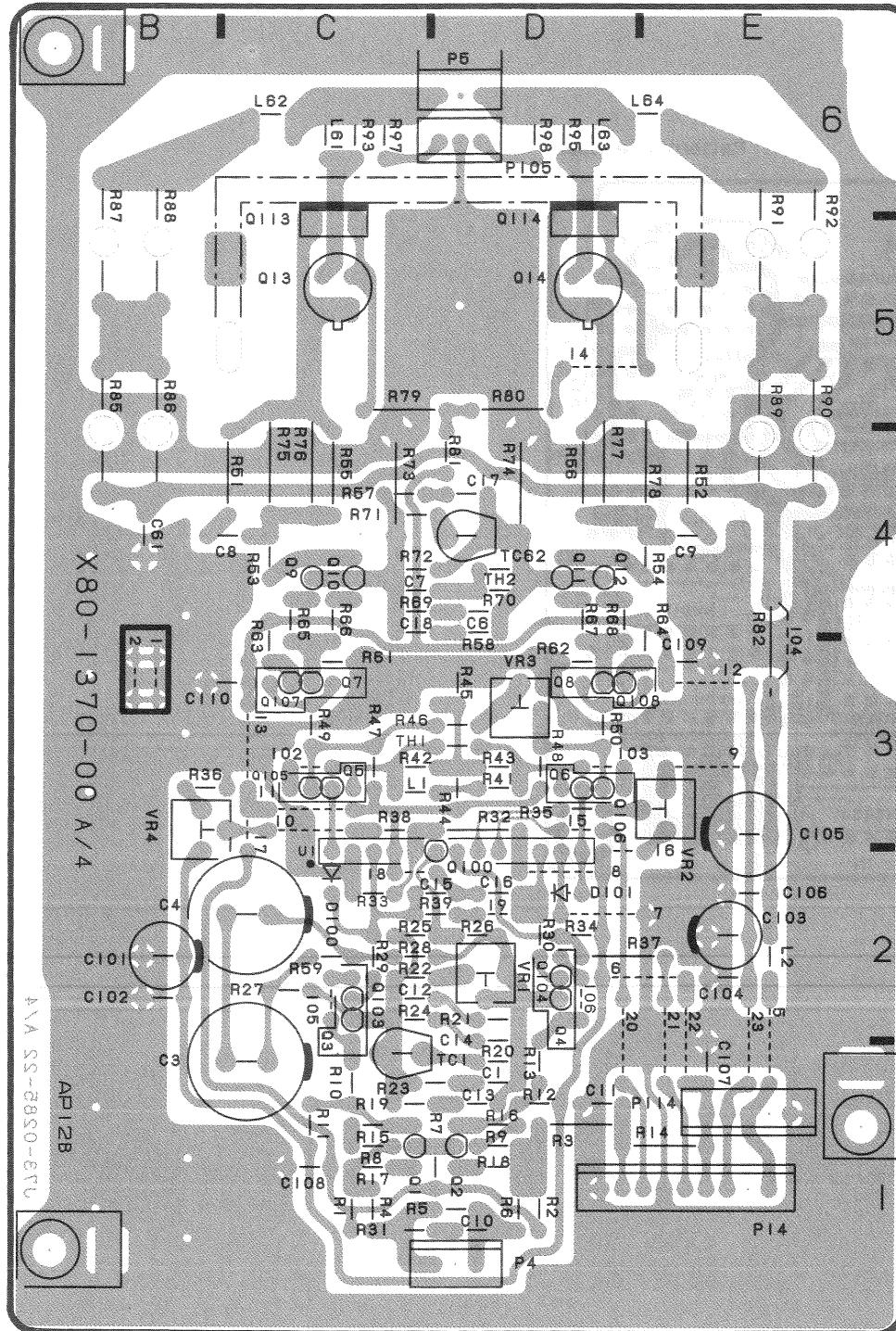
R/O UNIT (X77-1870-0X)

FINAL R/O UNIT (X80-1320-0X)

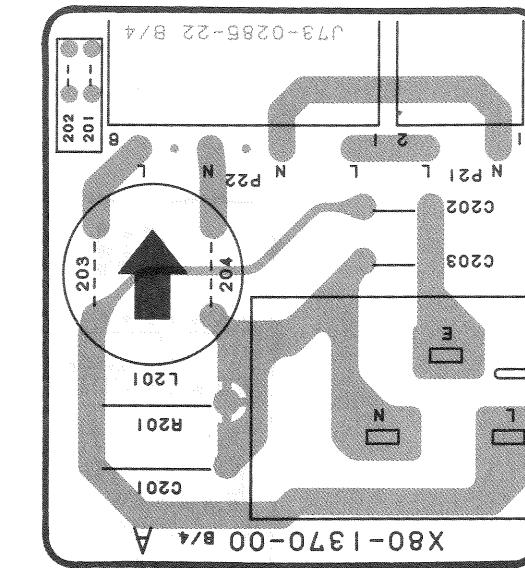


P.C. BOARD

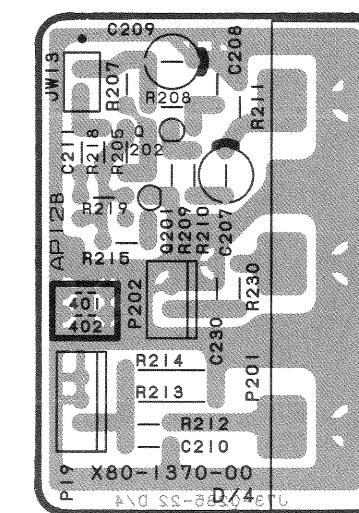
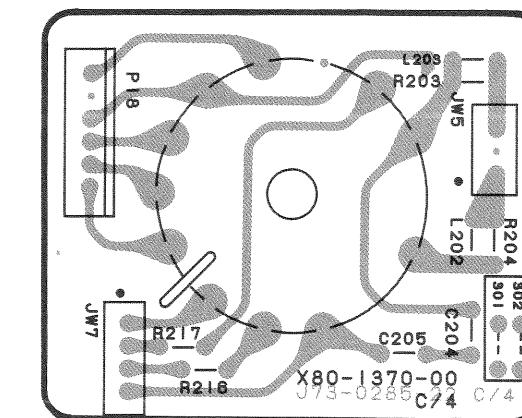
FINAL AMP UNIT (X80-1370-0X)



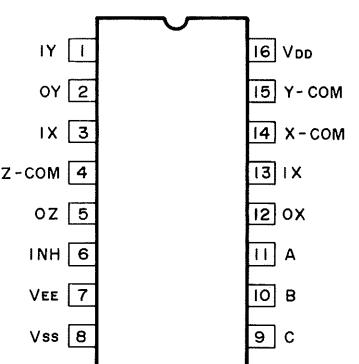
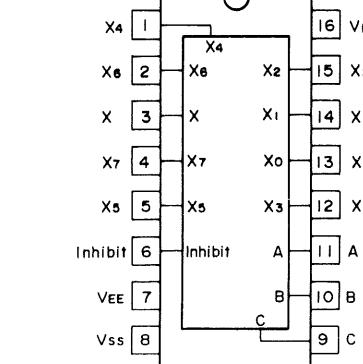
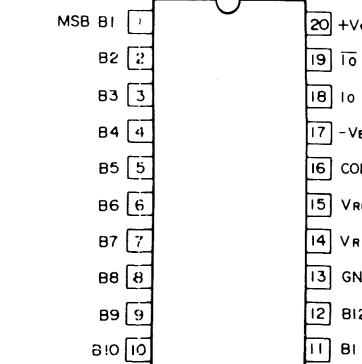
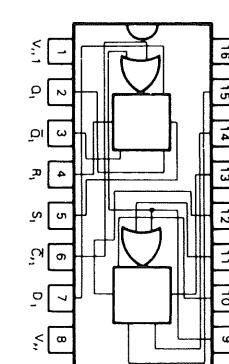
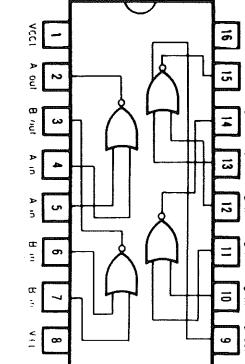
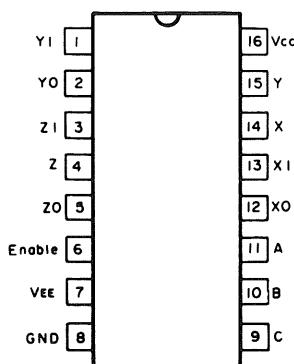
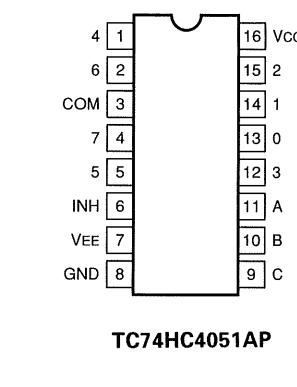
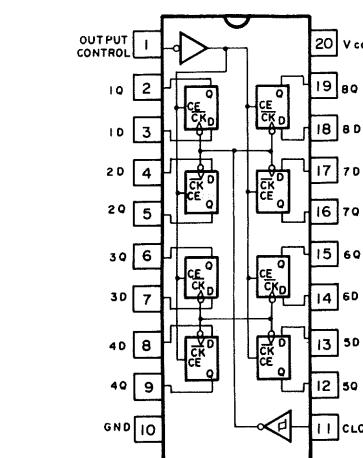
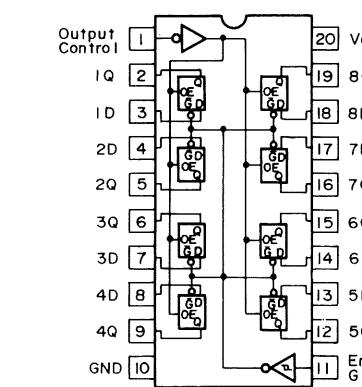
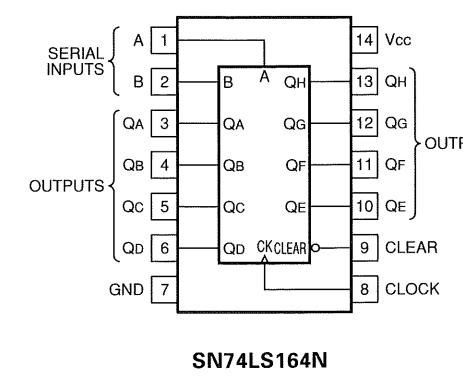
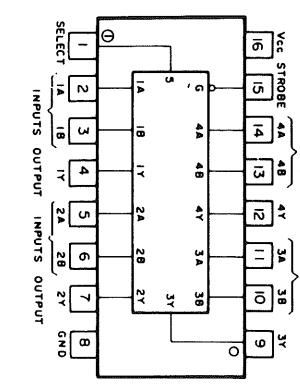
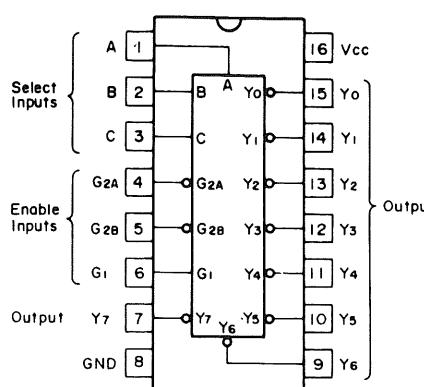
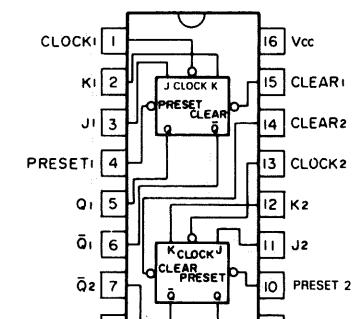
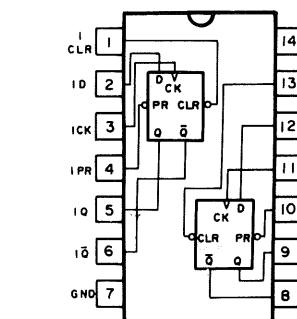
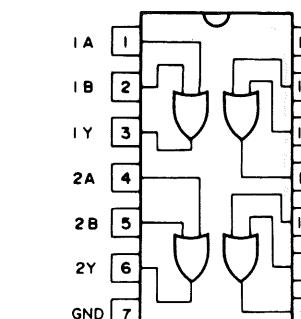
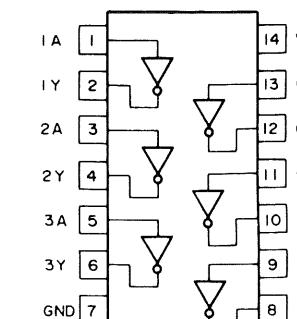
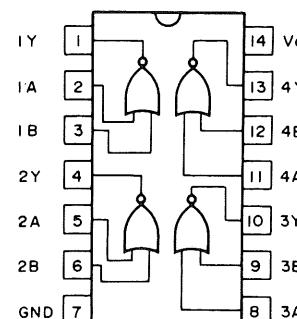
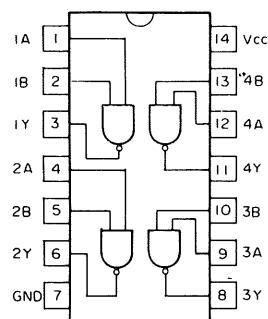
Pattern side view



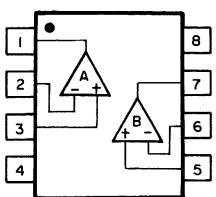
Pattern side view



SEMICONDUCTORS



SEMICONDUCTORS

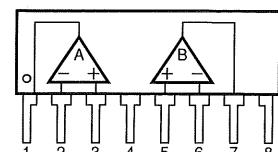


Pin name
 1. A OUTPUT
 2. A (-) INPUT
 3. A (+) INPUT
 4. V-
 5. B (+) INPUT
 6. B (-) INPUT
 7. B OUTPUT
 8. V+

NJM072D

NJM072

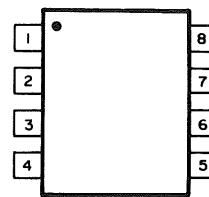
NJM4558D



NJM072L

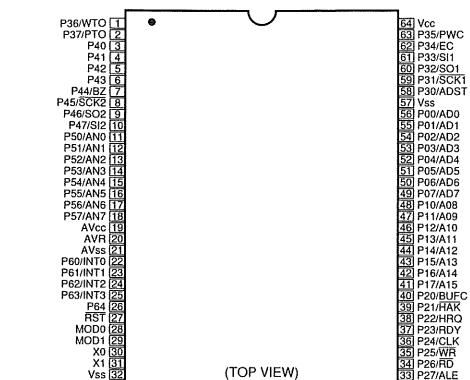
NJM4558L

Pin name
 1. A OUTPUT
 2. A-INPUT
 3. A+INPUT
 4. V-
 5. B+INPUT
 6. B-INPUT
 7. B OUTPUT
 8. V+

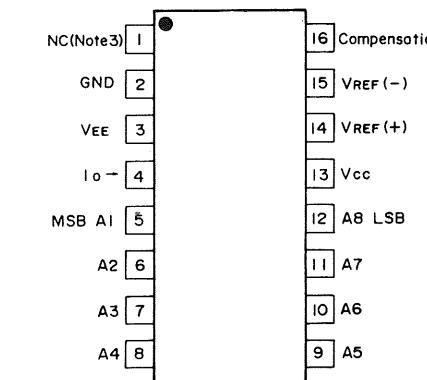


NJM311D

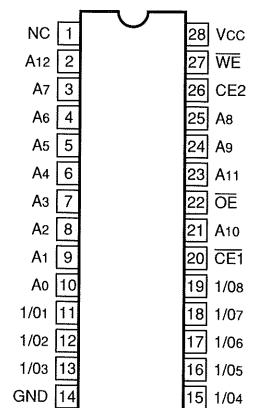
Pin name
 1. GROUND
 2. + INPUT
 3. - INPUT
 4. V-
 5. BAL
 6. BAL/STROBE
 7. OUTPUT
 8. V+



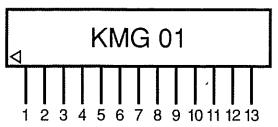
CTM5280



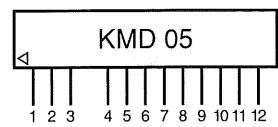
DAC0808LCN



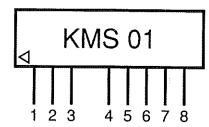
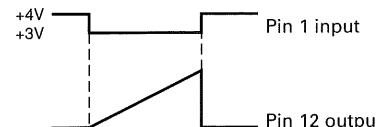
LC3664ASL-10



- MIX signal output A
- GND
- Signal input A
- + power supply
- Bias setting
- External control
- R/O character signal input
- R/O character position input
- R/O switching signal
- power
- Signal input B
- GND
- MIX signal output B



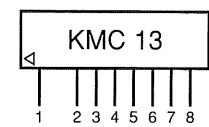
- Sweep gate input
- Sweep range input A
- Sweep range input B
- Sweep reference voltage input
- Sweep range input C
- Offset input
- power
- GND
- + power
- External capacitor connection
- External FET connection
- Sweep signal output



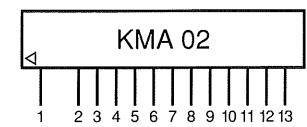
- Analog signal input
- + power
- GND
- Digital signal output A
- Digital signal output B
- Digital signal output C
- Digital signal output D
- Digital signal output E

Analog signal input [V]	Output				
	A	B	C	D	E
0.25 ~ 0.45	L	H	H	H	H
0.95 ~ 1.15	H	L	H	H	H
1.65 ~ 1.85	H	H	L	H	H
2.35 ~ 2.55	H	H	H	L	H
3.05 ~ 3.25	H	H	H	H	L

L : 1.0 [V] max
H : 4.5 [V] min

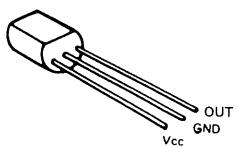


- Signal input
- Compensation
- FET (source) connection
- GND
- + power
- FET (drain) connection
- power
- Signal output

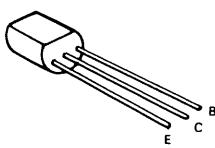


- +140 V output
- +140 V control
- +55 V control
- +55 V output
- +12 V control
- +12 V output
- 12 V control
- 12 V output
- +5 V control
- +5 V output
- Sweep time reference voltage output
- External capacitor connection
- GND

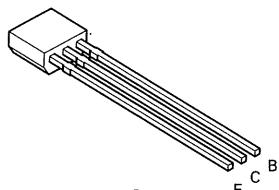
SEMICONDUCTORS



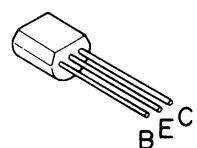
PST518B



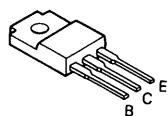
2SA720 (R)
2SA1005 (K)
2SA1208 (S)
2SC1318A (R)
2SC1907
2SC1923 (O)
2SC2551 (O)
2SC2910 (S)



2SA933S
2SC1740S (R,S)



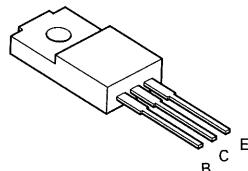
2SA1161
2SC2644
2SC3779 (D)



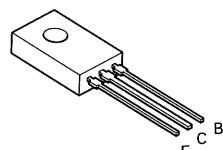
2SA1304



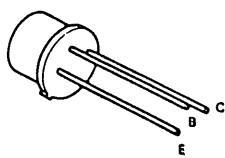
2SA1459 (K)



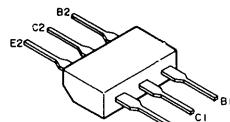
2SA1499 (P)



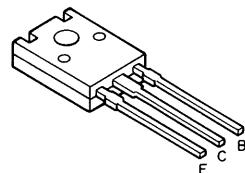
2SA1828 (E)
2SC4732 (E)



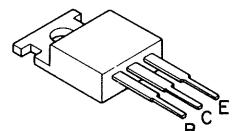
2SC1252



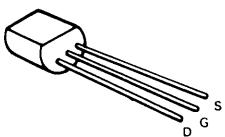
2SC3066 (G)



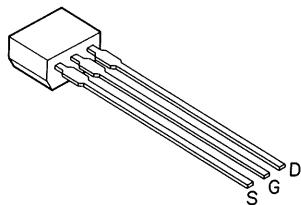
2SC3952 (D)



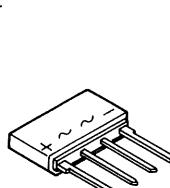
2SD613 (E)



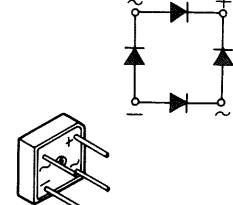
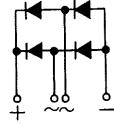
2SK170 (V)



2SK404 (E)



S1VB60



S4VB20F

A product of
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