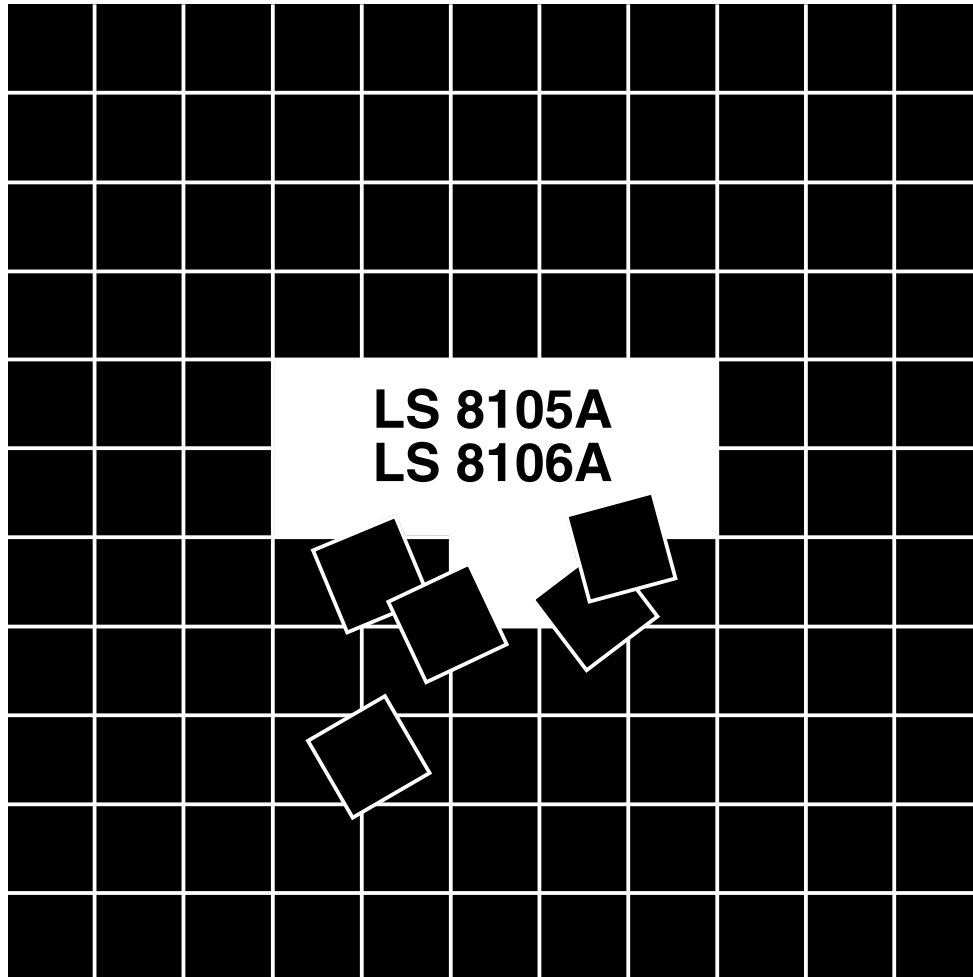


# LEADER

## OSCILLOSCOPE

SERVICE MANUAL



LEADER ELECTRONICS CORP.

# LS 8105A/LS 8106A

## WARNING

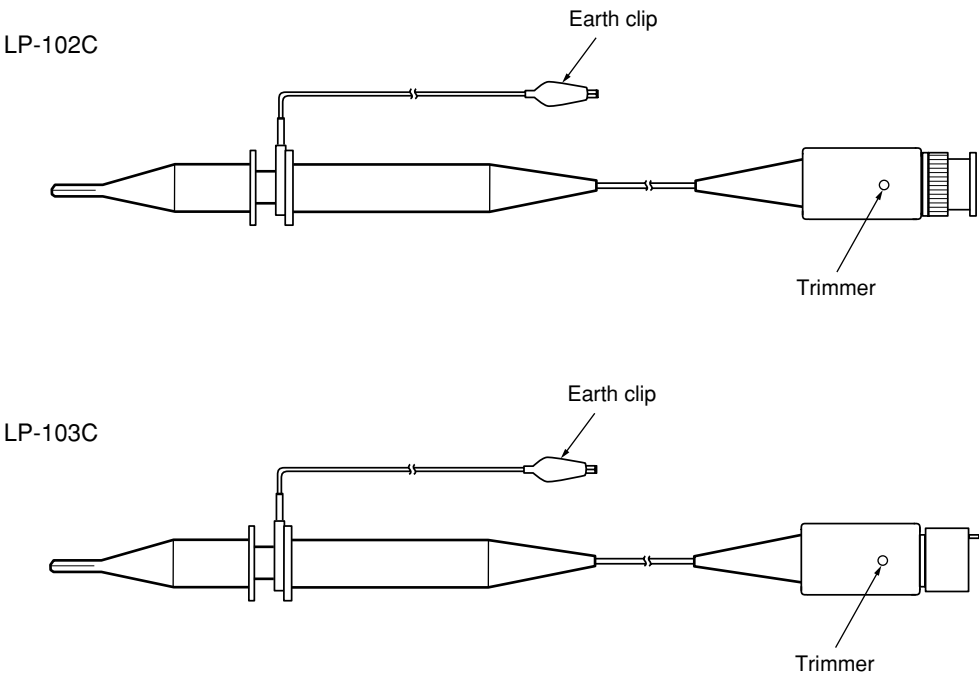
The following instructions are for use by qualified personnel only. To avoid electric shock, do not perform any servicing other than contained in the operating instructions unless you are qualified to do so.

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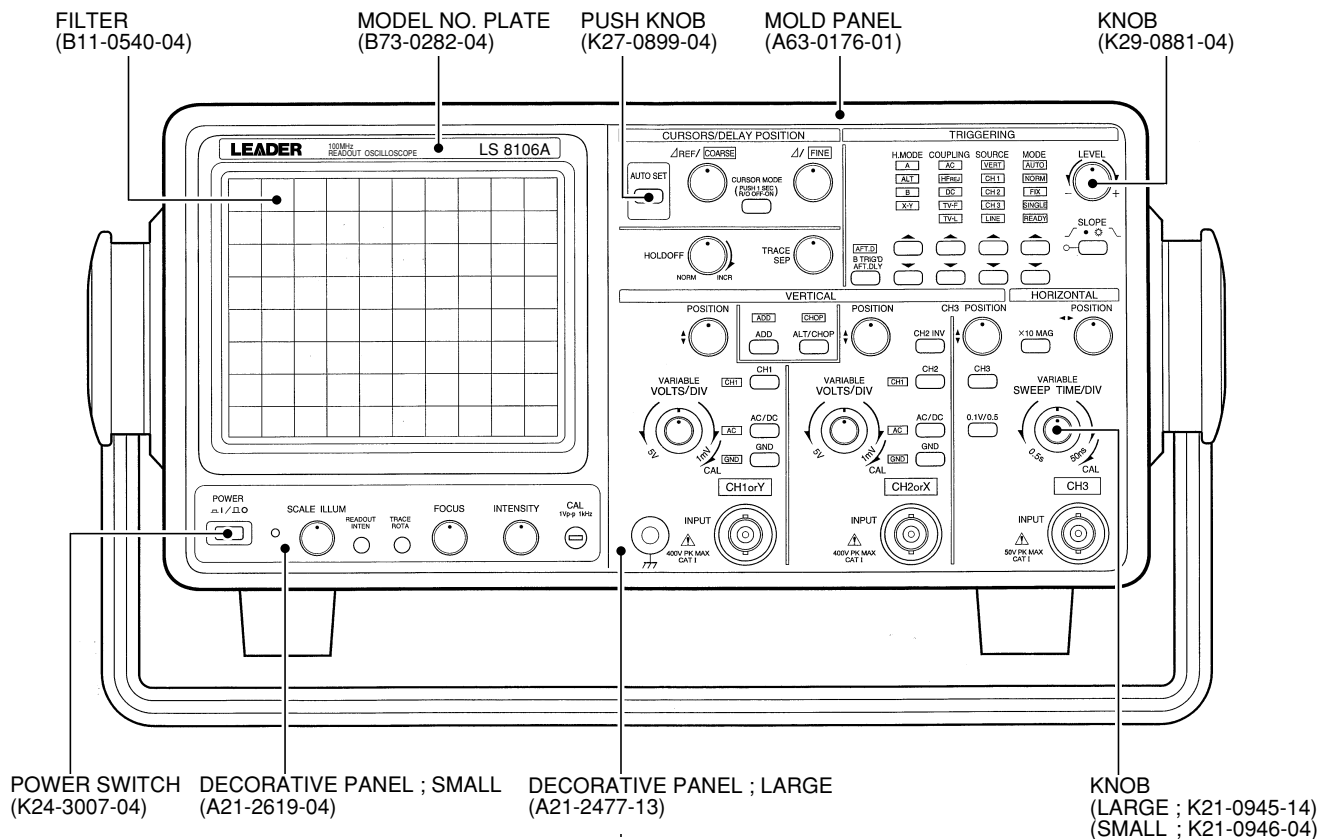
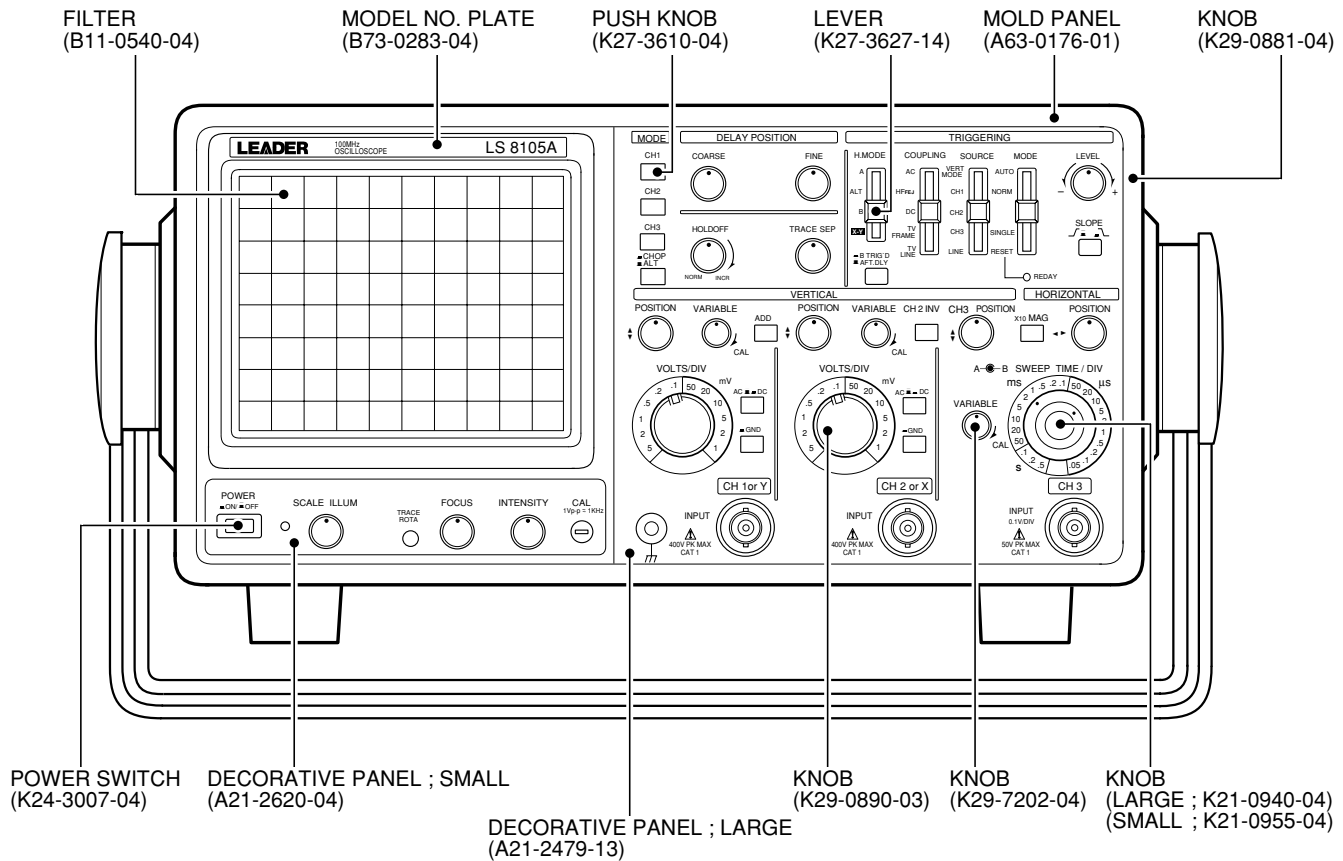
### Accessories

#### LOW CAPACITY PROBE



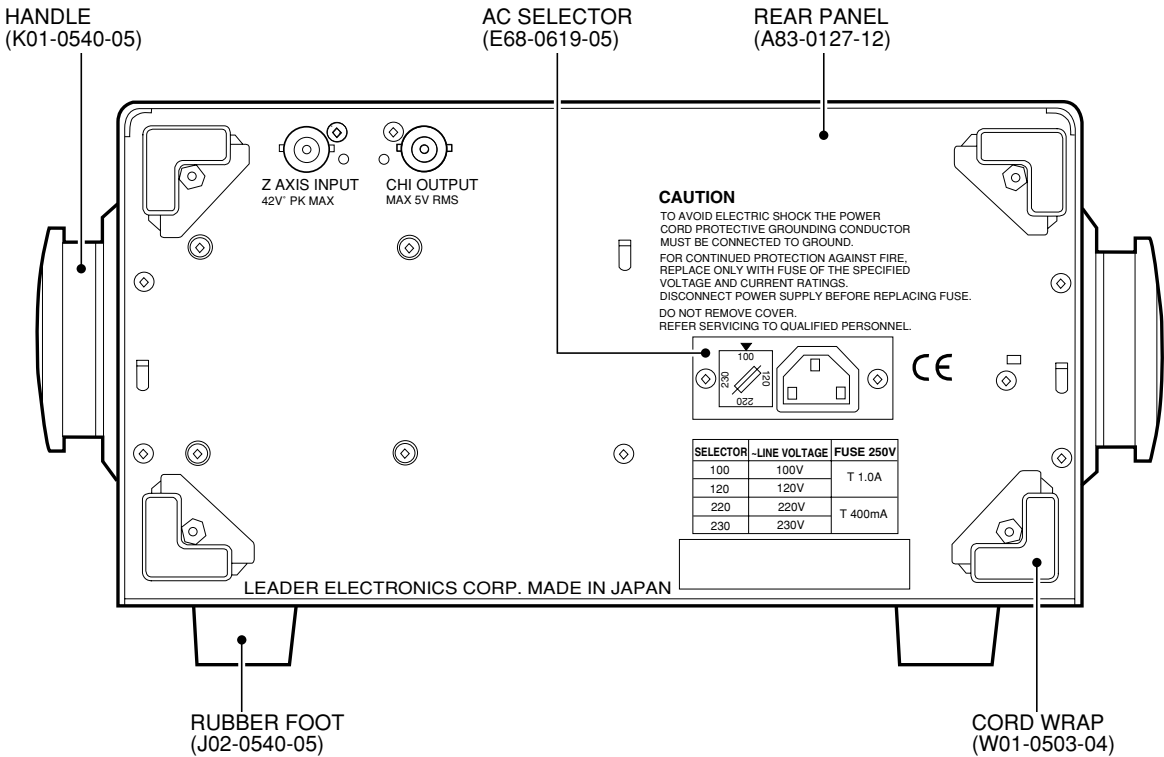
# LS 8105A/LS 8106A

## PANEL EXPLANATION



# LS 8105A/LS 8106A

## PANEL EXPLANATION





# LS 8105A/LS 8106A

## SPECIFICATIONS

ITEMS		LS 8105A	LS 8106A
CRT			
Type		150 mm rectangular tube with an regulator	
Acceleration voltage		Approx. 12 kV.	
Effective area		8 x 10 divisions (1 division = 10 mm)	
VERTICAL AXIS (Common to channels 1 and 2)			
Sensitivity		1mV, 2mV/div.: ±5%, 5mV to 5V/div.: ±2%	
Attenuation		1-2-5 steps, 12 ranges, fine control between ranges	
Input impedance		1MΩ ±1%, approx. 20 pF	
Frequency response (+10 to +35°C)	5 mV to 5 V/div.	DC: DC to 100 MHz AC: 5Hz to 100 MHz	
	1 mV to 2 mV/div.	DC: DC to 20 MHz, AC: 5 Hz to 20 MHz	
Rise time (+10 to +35°C)	5 mV to 5 V/div.	Approx. 3.5 ns	
	1 mV to 2 mV/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 1kHz)	
Δ Maximum input voltage		800 Vp-p or 400 V (DC + AC peak, 1kHz or less)	
VERTICAL AXIS (CH3)			
Sensitivity (+10 to +35°C)		0.1 V /div. range: ±2%	0.1 V and 0.5 V/div. range: ±2%
Input impedance		1 MΩ ±1%, approx. 20 pF	
Frequency response (-3 dB) (+10 to +35°C)		DC to 100 MHz	
Rise time (+10 to +35°C)		Approx. 3.5 ns	
Signal delay time		The leading edge may be checked using a square wave of the rise time less than that of this model.	
Δ Maximum input voltage		100 Vp-p or 50 V (DC+AC peak, 1kHz 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.	
Chop frequency		Approx. 250 kHz (in multi-trace operation)	
Channel polarity		Normal or inverted, CH2 only inverted	
HORIZONTAL AXIS (CH2, except for x10 MAG operation)			
Sensitivity (+10 to +35°C)		1 mV, 2 mV/div.: ±5%, 5 mV to 5 V/div.: ±3%	
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	
Δ Maximum input voltage		Same as vertical axis (CH2)	
SWEEP			
Sweep type		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)	A sweep	0.5 s to 50 ns/div. ±2% 1-2-5 steps, 22 ranges, fine adjustment between ranges	
	B sweep	50 ms to 50 ns/div. ±2% 1-2-5 steps, 19 ranges, fine adjustment between ranges	
Sweep magnified operation		x10 ±5% (±8% for over 0.5 μs/div.)	
Linearity (+10 to +35°C)		±3% (±5% in x10 MAG operation)	

# LS 8105A/LS 8106A

## SPECIFICATIONS

ITEMS	LS 8105A		LS 8106A
HOLDOFF	Continuously variable from A sweep NORM position		
Trace separation	B sweep is continuously variable by $\pm 4$ division or more with respect to A sweep.		
Delayed sweep operation	Continuous delay operation (AFTER DELAY) Synchronous delay operation (B TRIG'D) : Synchronous with the trigger signal		
Delay time	Continuous control by 0.2 to 10 divisions for 0.5 s/div. to maximum speed sweep		
Delay time error (+10 to +35°C)	Reading on CRT $\pm 4\%$ + (0 to 300 ns)	$\pm (3\% \text{ of set value} + 1\% \text{ of full scale})$ + (0 to 300 ns)	
Delay jitter	20000: 1 of a value 10 times as high as A sweep setting (A sweep: 1 ms/div., B sweep: 1 $\mu$ s/div.)		
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 HF <sub>REJ</sub> : Low-pass filter coupling up to 10 kHz DC : DC coupling TV-F (TV FRAME) : Composite video signal, vertical synchronization separation TV-L (TV LINE) : Composite video signal, horizontal synchronization separation		

Trigger sensitivity (+10 to +35°C)

MODE	COUPLING	Signal frequency	Sensitivity (Amplitude)	
			NORM	FIX *
NORM	AC	10 Hz to 50 MHz	1 div.	1.5 div.
		50 M to 100MHz	1.5 div.	2 div.
	HF <sub>REJ</sub>	10 Hz to 10 kHz	1 div.	1.5 div.
		Over 10 kHz	>min.	>min.
	DC	DC to 50 MHz	1 div.	1.5 div.
		50 M to 100 MHz	1.5 div.	2 div.
	TV-F, -L	Composite video signal	1.5 div.	

AUTO: Same as above specifications for above 40 Hz.

(The table shows the sensitivities in terms of the amplitude displayed on the CRT.)

(>min. for the HFREJ sensitivity shoes that the amplitude necessary for synchronization increases.)

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

# LS 8105A/LS 8106A

## SPECIFICATIONS

ITEMS		LS 8105A	LS 8106A
CALIBRATION SIGNAL: Positive square wave, 1 Vp-p ±1%, Frequency: 1 kHz ±0.1%			
INTENSITY MODULATION			
Input voltage		Darkens at TTL level (+5 V)	
Input impedance		Approx. 10kΩ	
Frequency response (+10 to +35°C)		DC to 5 MHz	
Δ Maximum input voltage		84 Vp-p or 42 V (DC + AC peak, 1 kHz or less)	
CH1 OUTPUT SIGNAL (with 50Ω load)			
Output voltage		Approx. 50 mVp-p/div.	
Output impedance		Approx. 50Ω	
Frequency response (-3dB)	1 mV/div,	100 Hz to 20 MHz	
	2 mV/div.		
	Over 5 mV/div.	100 Hz to 100 MHz	
TRACE ROTATION: Trace angle is adjustable with a semi-fixed control on panel.			
POWER SUPPLY voltage		100/120/220/230 VAC (Voltage fluctuation: within ±10%)	
Frequency		50 Hz or 60 Hz	
Power consumption (Maximum value)		45 W, 58 VA	56 W, 69 VA
DIMENSIONS AND WEIGHT (Values enclosed in parentheses include projections.)			
Width		305 mm (344mm)	
Height		150 mm (165 mm)	
Depth		400 mm (459 mm)	
Weight		8.8 kg	9.3 kg
ENVIRONMENTAL (Indoor use only)			
Altitude		Up to 2000 m	
Overvoltage Category		II	
Pollution Degree		2	
TEMPERATURE AND HUMIDITY			
Operating		0 to 40°C, 85% RH or less	
Storage		-20 to 70°C, 85% RH or less	
ACCESSORIES			
Probe (2 each)		LP-102C : 10 MΩ ±2%, 12.5 pF ±10%, 1/10 [LS 8105A] LP-103C : 10 MΩ ±2%, 12.5 pF ±10%, 1/10 [LS 8106A]	
Instruction manual		1	
Adjusting screwdriver		1	
Power cord		1	
Replacement fuse		T1A x 1 (for 100 V area) or T400 mA x 1 (for 200 V area) (T: Time lag fuse)	
REGULATORY INFORMATION			
LVD		EN61010-1 & A2 (1995)	
EMI		EN55011 (1991), CLASS B FCC 47CFR, Part 15, Sub-Part B, Class B	
EMS		IEC801-2 (1991) 8 kVAD	
		IEC801-3 (1984) 3V/m	
		IEC801-4 (1988)	

# LS 8105A/LS 8106A

## SPECIFICATIONS

[The specifications shown below do not apply to the LS 8105A]

ITEMS		LS 8105A	LS 8106A
<b>READOUT</b>			
Set value		CH1 and CH2 scale factors (with probe detection), CH3 scale factor (with no probe detection.) V-UNCAL, ADD, INV, A/B sweep scale factors (MAG converted. Marled with "*" in MAG mode.), sweep UNCAL, DELAY TIME, B TRIG'D, X-Y. Variable lock ("=" is displayed in Lock On mode.)	
Cursor modes (Between $\Delta$ REF and $\Delta$ cursors) In X-Y mode, only $\Delta$ V1 may be set.		$\Delta$ V1: Displayed in voltage with conversion according to CH1 scale factor. $\Delta$ V2: Displayed in voltage with conversion according to CH2 scale factor. $\Delta$ V3: Displayed in voltage with conversion according to CH3 scale factor. $\Delta$ T: Displayed in time with conversion according to A sweep scale factor. 1/ $\Delta$ T: Displayed in frequency with conversion according to A sweep DCV, Vp-p, FRQ & PER : Parameters measured by automatic measurement function are displayed.	
V-UNCAL or H-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°C. DCV > & Vp-p > : ">" is displayed to show that input signal voltage is greater than amplitude displayed on screen.	
Cursor measurement		Resolution : 10 bits Measuring error : $\pm 4\%$ Measuring range : $\pm 3.6$ divisions or more vertically from CRT center. $\pm 4.6$ divisions or more horizontally from CRT center.	
Automatic parameter measurement function		Parameters for signal selected as CH1 or CH2 trigger signal source are measured and displayed.	
Frequency (FRQ)		Mode is selected in cursor mode. Frequency measured by built-in counter is displayed.	
Frequency range		2 Hz to 100 MHz	
Effective number of digit		5 digits	
Accuracy		0.01 % $\pm 1$ digit	
Sensitivity		Same as rated of trigger sensitivity	
Period (PER)		Mode is selected in cursor mode. Period measured by built-in counter is displayed.	
Measurement range		0.5s to 10ns	
Effective number of digit		5 digits	
Accuracy		0.01% $\pm 1$ digit	
Sensitivity		Same as rated value of trigger sensitivity	
AC voltage (Vp-p)		Mode is selected in cursor mode. Peak-to-peak value is displayed.	
Measurement range	10 Hz to 1 MHz	0.5 div. to in a graticule	
	1 MHz to 5 MHz	2 div. to in a graticule	
Frequency range		10 Hz to 5 MHz	
Effective number of digit		3 digits	
Accuracy	10 Hz to 40 Hz	$\pm \{8\% + \text{attenuator setting range (V/div.)} \times 0.04 \text{ div.}\}$	
	40 Hz to 1 MHz	$\pm \{3\% + \text{attenuator setting range (V/div.)} \times 0.04 \text{ div.}\}$	
	1 MHz to 5 MHz	$\pm \{5\% + \text{attenuator setting range (V/div.)} \times 0.04 \text{ div.}\}$	
DC voltage (DCV)		Mode is selected in cursor mode. Mean DC voltage is displayed.	
Measurement range		0.5 div. to in a graticule	
Effective number of digit		3 digits	
Accuracy		$\pm \{3\% + \text{attenuator setting range (V/div.)} \times 0.04 \text{ div.}\}$	

# LS 8105A/LS 8106A

## SPECIFICATIONS

ITEMS		LS 8105A	LS 8106A
Auto set		Vertical axis attenuators, sweep ranges, vertical positions and horizontal Positions of CH1 and CH2 are set automatically.	
Period		1.5 to 5 periods (H.VARI: In CAL mode, input signal: up to 10 MHz)	
Amplitude		Within a graticule (1/2-graticule in dual $\approx$ trace mode)	
Frequency		50 Hz to 100 MHz	
Positions	Vertical axis	Screen center in single-trace mode. In dual-trace mode, CH1 position is approx. 2 divisions higher and CH2 position is approx. 2 divisions lower than screen center.	
	Horizontal axis	Leftmost position of scale is start point.	
Backup		Setting on panel is backed up by built-in battery. Default setting is restored when battery runs down.	
Battery life		Approx. 30,000 hours (at room temperature)	
Variable lock		Holding the ALT/CHOP switch for 1 second or more changes the Lock On mode into the Lock Off mode, and vice versa.	
		On : The VARIABLE control of CH1, CH2 or A sweep time is set to CAL, regardless of the control position. Off : The VARIABLE control of CH1, CH2 or A sweep time serves as the fine control as usual.	

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

# LS 8105A/LS 8106A

## SAFETY

### SAFETY

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

### Line voltage

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

### Power cord

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

### Line fuse

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

### Voltage conversion

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

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

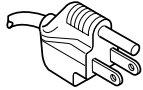
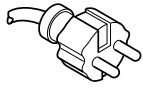

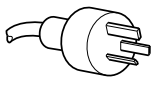
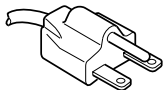

Plug configuration	power cord and plug type	Factory installed instrument fuse	Line cord plug fuse	Parts No. for power cord
	North American 120 volt/60 Hz Rated 15 amp (12 amp max ; NEC)	0.7A, 250V slow blow 5x20mm	None	E30-1951-05
	Universal Europe 220 volt/50 Hz Rated 16 amp	0.3A, 250V slow blow 5x20 mm	None	E30-1952-05
	U.K. 240 volt/50 Hz Rated 5 amp	0.3A, 250V slow blow 5x20 mm	5A Type C	E30-1963-15
	Australian 240 volt/50 Hz Rated 10 amp	0.3A, 250V slow blow 5x20 mm	None	E30-1953-05
	North American 240 volt/60 Hz Rated 15 amp (12 amp max ; NEC)	0.3A, 250V slow blow 5x20mm	None	—
	Switzerland 230 volt/50Hz Rated 10 amp	0.3A, 250V slow blow 5x20 mm	None	—

Fig.1 Power Input Voltage Configuration

# LS 8105A/LS 8106A

## 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
Digital Multi Meter	45 (FLUKE)
Digital Multi Meter	R-6450 (Advantest)
Square Wave Generator	PG-506 (Tektronix)
Sine-Wave Generator (1)	SG-503 (Tektronix)
Sine-Wave Generator (2)	MG3631A (Anritsu)
Sine-Wave Generator (Low Frequency)	AG-203A (KENWOOD TMI)
Time Marker Generator	TG-501 (Tektronix)
Oscilloscope	2465B (Tektronix)
DC standard	R6142 (Advantest)
Capacitance meter	3520 (Hioki)
Color Pattern Generator	CG-931 (KENWOOD TMI)
Audio analyzer	VA-2230 (KENWOOD TMI)

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.

## LS 8106A

NAME OF KNOBS	POSITION
SCALE ILLUM	Fully counter clock wise
FOCUS	12 O'clock
INTENSITY	12 O'clock
△REF/COARSE	Fully counter clock wise
△/FINE	Counter clock wise
HOLD OFF	Fully counter clock wise
TRACE SEP	Fully counter clock wise
LEVEL	12 O'clock
◆/◀▶ POSITION	12 O'clock
VARIABLE VOLTS/DIV	1mV
VARIABLE SWEEP TIME/DIV	50ns
TRIGGERING H.MODE	A ON
TRIGGERING COUPLING	AC ON
TRIGGERING SOURCE	CH1 ON
TRIGGERING MODE	AUTO ON
CH1	ON
AC/DC	ON

### Table 2

## LS 8105A


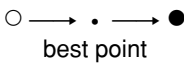
NAME OF KNOBS	POSITION
INTENSITY	12 O'clock
FOCUS	12 O'clock
◆/◀▶ POSITION	12 O'clock
VARIABLE	CAL
AC-GND-DC	DC
VOLT-DIV	5V / DIV
A/B SWEEP TIME/DIV	Fully counter clock wise
COARSE	Counter clock wise
FINE	Counter clock wise
HOLD OFF	Fully counter clock wise
TRACE SEP	Fully counter clock wise
TRIGGERING H.MODE	A
TRIGGERING COUPLING	AC
TRIGGERING SOURCE	VERT MODE
TRIGGERING MODE	AUTO
TRIGGERING LEVEL	12 O'clock
SLOPE	
MODE	CH1
B TRIG'D/AFTDLY	AFT-DLY
X10 MAG	OFF
ADD	OFF
CH2 INV	OFF

Table 3

# LS 8105A/LS 8106A

## ADJUSTMENT

No.	Item	Adjustment	P.C.B.	Procedure
1	Operating voltage	VR4 VR306	X73-2210 X74-1640	<div>V.MODE : CH1, CH2 VOLTS : 10mV (both CH) R/O : OFF</div> <div>AC-DC : GND (both CH) H.MODE : X-Y</div> <ol style="list-style-type: none"> <li>1) Move the spot to the CRT center by operating the POSI controls.</li> <li>2) Short circuit CN105-1 and 3 of X73-2210 and adjust VR4 so that the voltage between CN105-2 and GND is 100M 35.6/50M 33.8V.</li> <li>3) Adjust VR306 so that the voltage between CN670-1 and GND of X74-1640 is 70V and confirm that between 4 and GND is 70V.</li> </ol>
2	Focus center and ASTIG	VR308 VR102	X74-1640 X68-1920	<div>V.MODE : CH1, CH2 VOLTS : 10mV (both CH)</div> <div>AC-DC : GND (both CH) H.MODE : X-Y</div> <ol style="list-style-type: none"> <li>1) Move the spot to the CRT center by operating the POSI controls.</li> <li>2) Adjust the spot to the best point with FOCUS on the panel and ASTIG (VR308) .</li> <li>3) Set FOCUS on the panel to the 12:00 position and adjust VR102 to move the spot to the best point.</li> </ol> <div>  </div>
3	Intensity	VR101	X68-1920	<div>V.MODE : CH1, CH2 VOLTS : 10mV (both CH)</div> <div>AC-DC : GND (both CH) H.MODE : X-Y</div> <ol style="list-style-type: none"> <li>1) Set INTEN to the 10:00 position.</li> <li>2) At the 10:00 position, adjust so that the spot disappears.</li> </ol>
4	Cursor Y-Gain and POSI ※ only with a "LS 8106A"	VR3 (Gain) VR2 (POSI)	X73-2210	<div>V.MODE : CH1, CH2 VOLTS : 10mV (both CH) R/O : ON(△ V1)</div> <div>AC-DC : GND (both CH) A.SWEEP : 1ms H.MODE : A</div> <ol style="list-style-type: none"> <li>1) Set the R/O display to 60.0mV by operating the cursor POSI controls.</li> <li>2) Adjust VR3 and VR2 so that the interval between cursors is 6 div.</li> <li>3) Maximize the cursor interval by operating the cursor POSI controls.</li> <li>4) Adjust VR2 to make it uniform.</li> </ol>
5	CH1 Step ATT Balance	VR101	X73-2240	<div>V.MODE : CH1 VOLTS : 5mV (both CH)</div> <div>AC-DC : GND (both CH) H.MODE : A</div> <ol style="list-style-type: none"> <li>1) Adjust so that the trace does not move when VOLTS is switched from 5mV to 2mV. * Adjust after switching to 2mV with reference to the 5mV position.</li> </ol>
6	CH1 VARIABLE Balance	VR102	X73-2240	<div>V.MODE : CH1 VOLTS : 5mV (both CH)</div> <div>AC-DC : GND (both CH) H.MODE : A</div> <p>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>
7	CH2 Step ATT Balance	VR201	X73-2240	<div>V.MODE : CH2 VOLTS : 5mV (both CH)</div> <div>AC-DC : GND H.MODE : A</div> <ol style="list-style-type: none"> <li>1) Adjust so that the trace does not move when VOLTS is switched from 5mV to 2mV. * Adjust after switching to 2mV with reference to the 5mV position.</li> </ol>



# LS 8105A/LS 8106A

## ADJUSTMENT

No.	Item	Adjustment	P.C.B.	Procedure
8	CH2 VARIABLE Balance	VR202	X73-2240	<div>V.MODE : CH2 VOLTS : 5mV</div> <div>AC-DC : GND H.MODE : A</div> <p>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>
9	CH2 INV Balance	VR205	X73-2240	<div>V.MODE : CH2 VOLTS : 5mV</div> <div>AC-DC : GND H.MODE : A</div> <p>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>
10	ADD POSI	VR371	X73-2240	<div>V.MODE : CH1, ADD VOLTS : 5mV (both CH)</div> <div>AC-DC : GND H.MODE : A</div> <p>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>
11	V. POSI Center Gain ※ In the case of "LS 8105A"	CH1 : VR106 (Center) CH1 : VR502 (Gain) CH2 : VR206 (Center) CH2 : VR504 (Gain) CH3 : VR301 (Center)	X73-2240	<div>V.MODE : CH1, CH2, CH3 VOLTS : 10mV</div> <div>AC-DC : GND H.MODE : A</div> <p>1) Input CH1, 1 kHz sine wave, and 16 div. 2) Adjust GAIN so that the edges of both upper and lower wave forms will be in the same position when POSI is turned upward and downward to a maximum extent. 3) Adjust CH2 in the same way. 4) Display only CH1 and conduct auto setting. Then adjust the POSI center so that the bright line will be in the center. 5) Display only CH2 and conduct auto setting. Then adjust the POSI center so that the bright line will be in the center. 6) Set the POSI knob of CH3 at 12:00, and make adjustment so that the bright line will be in the center.</p>
12	V. POSI center Gain ※ In the case of "LS 8105A"	CH1: VR106 CH2: VR206 CH3: VR301	X73-2240	<div>V.MODE : CH1, CH2, CH3 H.MODE : A</div> <div>VOLTS: 5mV AC/DC: GND</div> <p>1) Each POSI knob of CH is set to 12:00 position. 2) Adjust the each trace of CH the center of scale.</p>
13	CH1 Gain In the case of "LS 8105A" an adjustment machine changes.	10mV: VR1(LS 8106A) VR3(LS 8105A) 1mV: VR104	X73-2210 X73-2240	<div>V.MODE : CH1 VOLTS : 10mV VARI : CAL</div> <div>AC-DC : DC H.MODE : A</div> <p>1) Input a 50mV square wave signal. (Use the pulse generator.) 2) Adjust so that the amplitude is 5 div. (10mV range) 3) Switch VOLTS to 1mV and input a 5mV square wave signal. 4) Adjust so that the amplitude is 5 div. (1mV range)</p>
14	CH2 Gain	VR203(10mV) VR204(1mV)	X73-2240	<div>V.MODE : CH2 VOLTS : 10mV VARI : CAL</div> <div>AC-DC : DC H.MODE : A</div> <p>1) Input a 50mV square wave signal. (Use the pulse generator.) 2) Adjust so that the amplitude is 5 div. (10mV range) 3) Switch VOLTS to 1mV and input a 5mV square wave signal. 4) Adjust so that the amplitude is 5 div. (1mV range)</p>

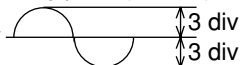
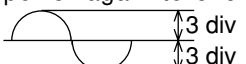
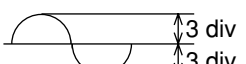
# LS 8105A/LS 8106A

## ADJUSTMENT

No.	Item	Adjustment	P.C.B.	Procedure
15	CH3 Gain	VR302	X73-2240	<div>V.MODE : CH3H.MODE : A</div> 1) Input a 0.5V square wave signal. 2) Adjust so that the amplitude is 5 div. (0.1V range)
16	CH1 Waveform Shaping	TC101 (0.1V) TC103 (1V)	X73-2240	<div>V.MODE : CH1VARI : CAL VOLTS : 10mV (ideal waveform)H.MODE : A AC-DC : DC</div> 1) Input a 1kHz square wave to the CH1 input. (5 div) 2) Adjust so that the waveforms at 0.1V and 1 V are flat.
17	CH2 Waveform Shaping	TC201 (0.1V) TC203 (1V)	X73-2240	<div>V.MODE : CH2VARI : CAL VOLTS : 10mV (ideal waveform)H.MODE : A AC-DC : DC</div> 1) Input a 1kHz square wave to the CH2 input. (5 div) 2) Adjust so that the waveforms at 0.1V and 1 V are flat.
18	CH3 Waveform Shaping ※ There are no 0.5V in "LS 8105A"	TC303 (0.1V) TC301 (0.5V)	X73-2240	<div>V.MODE : CH3H.MODE : A</div> 1) Input a 1kHz square wave to the CH3 input and adjust so that the waveform is flat.
19	CH1 Input Capacity	TC102 (0.1V)	X73-2240	<div>V.MODE : CH1VARI : CAL VOLTS : 10mV (reference)H.MODE : A AC-DC : DC</div> 1) Connect a capacity meter to the CH1 input. 2) Measure the capacity of the 10mV range. (20pF ±3pF) 3) At 0.1V adjust to obtain the same values as 10mV.
20	CH2 Input Capacity	TC202 (0.1V)	X73-2240	<div>V.MODE : CH2VARI : CAL VOLTS : 10mV (reference)H.MODE : A AC-DC : DC</div> 1) Connect a capacity meter to the CH2 input. 2) Measure the capacity of the 10mV range. (20pF ±3pF) 3) At 0.1V adjust to obtain the same values as 10mV.
21	CH3 Input Capacity ※ It differs from "LS 8105A"	TC302 (0.5V)	X73-2240	<div>V.MODE : CH3H.MODE : A</div> 1) Connect a capacity meter to the CH3 input. 2) Measure the capacity of the 0.1V range. (20pF ±3pF) 3) At 0.5V adjust to obtain the same value as 0.1V. In the case of "LS 8105A" It is only 0.1V range, carry out a check of 20pF ± 3pF
22	luminosity length ※ only with a "LS 8105A"	VR307	X74-1640	<div>V. MODE: CH1AC/DC: DC A-SWEEP TIME: 1ms</div> 1) The marker signal for 1ms is inputted into CH1 INPUT. 2) SWEEP LENGTH is 11.5div. It adjusts so that it may become.
23	Cursor X-Gain and POSI ※ only with a "LS 8106A"	VR307 (Gain) VR401 (POSI)	X74-1640	<div>V.MODE : CH1, CH2AC-DC : GND (both CH) VOLTS : 10mV (both CH)A. SWEEP : 1ms R/O : ON (1/△T)H.MODE : A</div> 1) Set the R/O display to 8.00 by operating the cursor POSI controls. 2) Adjust VR307 and VR401 so that the cursor interval is 8 div. 3) Maximize the cursor interval by operating the cursor POSI controls. 4) Adjust VR401 to make it uniform.

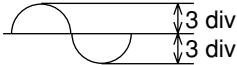
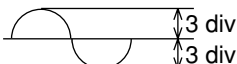
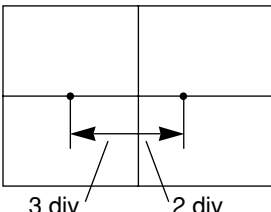
# LS 8105A/LS 8106A

## ADJUSTMENT

No.	Item	Adjustment	P.C.B.	Procedure								
24	CH1 TRIG AC Coupling ※ In the case of "LS 8106A"	VR107 VR106	X73-2240 X73-1640	<p>Initial configuration: unnecessary</p> <p>1) After turning off the power, turn on the power while pressing the ▼ SW of MODE to enter the adjustment mode.</p> <p>2) Enter the voltmeter mode by means of the cursor switch.</p> <p>3) Turn on CH1 10mV DC GND, set the trigger source to CH1, and make adjustment so that the measured DCV will be within ±0.2mV. (VR107)</p> <p>4) Input a 1 kHz sine wave to CH1, and shift it by 3 div to up and down from the center of scale, respectively.</p> <p>5) Let the starting position of the wave form coincide with the center of scale by means of TRIG LEVEL.</p> <p>6) Change COUPLING to AC, and let the wave form starting point of the DC coupling coincide with the AC coupling starting point (VR106)</p> <p style="text-align: right;">Align the start with → </p>								
25	CH1 TRIG DC COUPLING ※ In the case of "LS 8105A"	VR107	X73-2240	<table border="1" style="width: 100%;"><tr><td>V. MODE: CH1</td><td>AC/DC: DC</td><td>TRIG MODE: AUTO</td></tr><tr><td>VOLTS: 10mV</td><td>COUPLING: AC</td><td>A-SWEEP TIME: 0.2ms</td></tr></table> <p>1) Input 1kHz sine wave to CH1 and set it so that it extends by 3div., above and below the scale center line.</p> <p>2) Adjust TRIG LEVEL so that the waveform starts from the scale center line</p> <p>3) Switch COUPLING to DC and adjust so that the waveform starts from the scale center line.</p>	V. MODE: CH1	AC/DC: DC	TRIG MODE: AUTO	VOLTS: 10mV	COUPLING: AC	A-SWEEP TIME: 0.2ms		
V. MODE: CH1	AC/DC: DC	TRIG MODE: AUTO										
VOLTS: 10mV	COUPLING: AC	A-SWEEP TIME: 0.2ms										
26	CH2 TRIG DC Coupling ※ It differs from "LS 8105A"	VR207	X73-2240	<p>Initial configuration: unnecessary</p> <p>1) Enter the voltmeter mode by means of the cursor switch.</p> <p>2) Turn on CH2 10mV DC GND, set the trigger source to CH2, and set the trigger coupling to DC and make adjustment so that the measured DCV will be within ±0.2mV.(VR207)</p> <p>3) After turning off the power, turn on the power again to end the adjustment mode.</p> <p style="text-align: right;">Align the start with → </p> <p>4) "LS 8105A" is the same method as CH1, and unites DC coupling start with AC coupling start.</p>								
27	CH3 TRIG DC Coupling	VR303	X73-2240	<table border="1" style="width: 100%;"><tr><td>V.MODE : CH3</td><td>SWEEP T : 0.2ms</td></tr><tr><td>TRIG MODE : AUTO</td><td>COUPLING : AC</td></tr></table> <p>1) Adjust TRIG LEVEL so that the waveform starts from the scale center line.</p> <p>2) Set the trace to the scale center by operating V.POSI.</p> <p>3) Input a 1kHz 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.)</p> <p>4) Switch COUPLING to DC and adjust so that the waveform starts from the scale center line.</p> <p style="text-align: right;">Align the start with → </p>	V.MODE : CH3	SWEEP T : 0.2ms	TRIG MODE : AUTO	COUPLING : AC				
V.MODE : CH3	SWEEP T : 0.2ms											
TRIG MODE : AUTO	COUPLING : AC											
28	TRIG ADD	VR372	X73-2240	<table border="1" style="width: 100%;"><tr><td>V.MODE : CH1, CH2</td><td>AC-DC : DC</td></tr><tr><td>VOLTS : 0.1V</td><td>TRIG MODE : AUTO</td></tr><tr><td>SWEEP T : 0.2ms</td><td>SOURCE : VERT</td></tr><tr><td>COUPLING : AC</td><td></td></tr></table> <p>1) Set the traces of each CH to the scale center position by operating V.POSI.</p> <p>2) Switch CH1 and CH2 to OFF and ADD to ON</p> <p>3) Input 1kHz sine wave to CH1 and set it so that it extends by 3 div., above and below the scale center line.</p> <p>4) Adjust TRIG LEVEL so that the waveform starts from the scale center line.</p> <p>5) Switch COUPLING to DC and adjust so that the waveform starts from the scale center line.</p>	V.MODE : CH1, CH2	AC-DC : DC	VOLTS : 0.1V	TRIG MODE : AUTO	SWEEP T : 0.2ms	SOURCE : VERT	COUPLING : AC	
V.MODE : CH1, CH2	AC-DC : DC											
VOLTS : 0.1V	TRIG MODE : AUTO											
SWEEP T : 0.2ms	SOURCE : VERT											
COUPLING : AC												

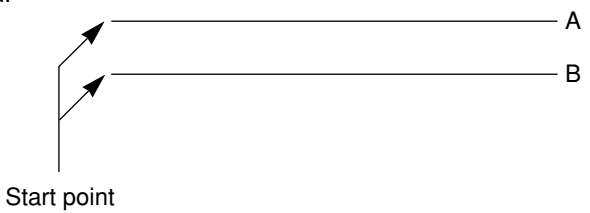
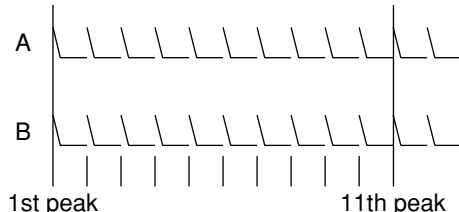
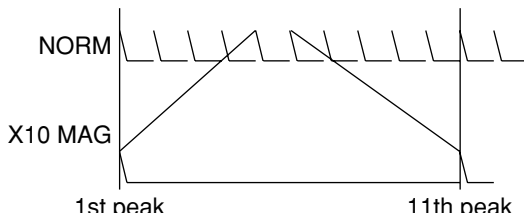
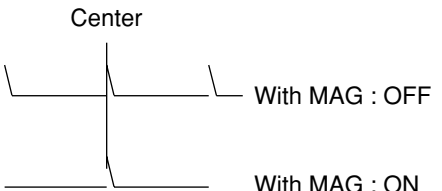
# LS 8105A/LS 8106A

## ADJUSTMENT

No.	Item	Adjustment	P.C.B.	Procedure
29	TRIG SIGNAL GAIN ※ only with a "LS 8106A"	CH1: VR501 CH2: VR503 P550	X73-2240 X74-1640	<div> <div>TRIG SOURCE: CH1, CH2      AC/DC: AC</div> <div>COUPLING: AC                      VOLTS: 10mV</div> </div> <ol style="list-style-type: none"> <li>1) Input 1kHz and 6div. to the CH1. TRIG SOURCE: CH1</li> <li>2) The black of multi-meter is connected to P550.</li> <li>3) It adjusts by VR501 so that multi-meter may be set to 21.21mV in ACV. (Adjustment range:21.16 mV to 21.26 mV)</li> <li>4) Input a 1kHz and 6div. to the CH2. TRIG SOURCE: CH2</li> <li>5) It adjusts by VR503 so that multi-meter may be set to 21.2mV in ACV. (Adjustment range:21.16 mV to 21.26 mV)</li> <li>6) The lead from multi-meter is removed.</li> </ol>
30	FIX Level	VR2	X74-1640	<div> <div>V.MODE : CH1                      AC-DC : DC</div> <div>TRIG MODE : FIX                  VOLTS : 0.1V</div> <div>SWEEP T : 0.2ms                  COUPLING : AC</div> </div> <ol style="list-style-type: none"> <li>1) Input 1kHz sine wave to CH1 and set it so that it extends by 3 div., above and below the scale center line.</li> <li>2) Adjust so that the waveform starts from the scale center line when SLOPE is switched between +/-.</li> <li>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.)</li> </ol> <p>Align the start with → </p>
31	TRIG Level	VR1	X74-1640	<div> <div>V.MODE : CH1                      AC-DC : DC</div> <div>TRIG MODE : AUTO                  VOLTS : 0.1V</div> <div>SWEEP T : 0.2ms                  COUPLING : AC</div> </div> <ol style="list-style-type: none"> <li>1) Input 1kHz sine wave to CH1 and set it so that it extends by 3 div., above and below the scale center line.</li> <li>2) Set TRIG LEVEL to the 12:00 position and adjust so that the waveform starts from the scale center line.</li> </ol> <p>Align the start with → </p>
32	AC Voltmeter ※ only with a "LS 8106A"	VR550	X74-1640	<div> <div>TRIG SOURCE : CH1                  AC-DC : AC</div> <div>VOLTS : 10mV                      COUPLING : AC</div> </div> <ol style="list-style-type: none"> <li>1) Enter the voltmeter mode by means of the cursor switch.</li> <li>2) Set the trigger source to CH1, input 1 kHz and 6 mVpp, turn on GND and then turn it off, and operate VR550 so that the voltage will be 5.95 mV to 6.05 mV.</li> </ol>
33	DC Voltmeter ※ only with a "LS 8106A"	VR402	X74-1640	<div> <div>TRIG SOURCE : CH1                  VOLTS : 10mV</div> <div>AC-DC : DC</div> </div> <ol style="list-style-type: none"> <li>1) Enter the voltmeter mode by means of a cursor switch.</li> <li>2) Input DC 50mV to CH1.</li> <li>3) Turn on GND once and then turn it off. Operate VR402 so that the measured DCV will be 49.5mV to 50.5mV.</li> </ol>
34	X Gain	VR301	X74-1640	<div> <div>H.MODE : X-Y                      AC-DC : DC</div> <div>VOLTS : 10mV                      VARI : CAL</div> </div> <ol style="list-style-type: none"> <li>1) Input a 50mV square wave signal to CH2.</li> <li>2) Adjust so that the amplitude is 5 div. (10mV range)</li> </ol> <p>*Make the adjustment to 5 div., at the CRT center.</p> 

# LS 8105A/LS 8106A

## ADJUSTMENT

No.	Item	Adjustment	P.C.B.	Procedure
35	A/B sweep start points	VR105	X74-1640	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> V.MODE : CH1  AC-DC : GND  <div style="text-align: right;">SWEEP TIME : A→1ms, B→0.1ms</div> </div> <p>1) Adjust VR105 so that the start points of A.SWEEP and B.SWEEP are aligned.</p> 
36	A, B SWEEP TIME 1 ms	VR101 (A, SWEEP) VR102 (B, SWEEP)	X74-1640	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> SWEEP TIME : A, B→1ms  DTM : MIN (fully counterclockwise)  H.MODE : ALT </div> <p>1) Input a 1ms marker signal.  2) Adjust so that the marker peak and scale coincides at every div.</p> 
37	MAG GAIN	VR305	X74-1640	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> SWEEP TIME : A→1ms  AC-DC : DC  <div style="text-align: right;">H.MODE : A</div> </div> <p>1) Input a 1ms 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> 
38	MAG Center	VR304	X74-1640	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> SWEEP TIME : A→1ms  AC-DC : DC.  <div style="text-align: right;">H.MODE : A</div> </div> <p>1) Input a 5ms 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 peaks 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> 

# LS 8105A/LS 8106A

## ADJUSTMENT

No.	Item	Adjustment	P.C.B.	Procedure
39	H.POSITION X-POSITION	VR303 (H.POSI) VR302 (X-POSI)	X74-1640	<div>SWEEP TIME : A→1ms                      H.MODE : A</div> <ol style="list-style-type: none"> <li>1) Set the AC-DC switch to GND. (The marker signal can be left input.)</li> <li>2) Set H.POSI to the 12:00 position.</li> <li>3) Adjust VR303 so that the trace start point is aligned with the left end of scale.</li> <li>4) Set H.MODE to X-Y.</li> <li>5) Adjust VR302 so that the spot comes on the scale center.</li> </ol>
40	A, B SWEEP TIME 10μs	VR107 (A, SWEEP) VR108 (B, SWEEP)	X74-1640	<div>SWEEP TIME : A, B→10μs                      H.MODE : ALT DTM : MIN (fully counterclockwise)</div> <ol style="list-style-type: none"> <li>1) Input a 10μs marker signal.</li> <li>2) Adjust so that the marker peak and scale coincides at every div.</li> </ol>
41	A, B SWEEP TIME 0.2μs	TC101 (A, SWEEP) TC102 (B, SWEEP)	X74-1640	<div>SWEEP TIME : A, B→0.2μs                      H.MODE : ALT DTM : MIN (fully counterclockwise)      B.SWEEP : TC102</div> <ol style="list-style-type: none"> <li>1) Input a 0.2μs marker signal.</li> <li>2) Adjust so that the marker peak and scale coincides at every div.</li> </ol>
42	A, SWEEP TIME 0.05μs	TC301 (A, SWEEP)	X74-1640	<div>SWEEP TIME : A, B→0.1μs                      H.MODE : ALT DTM : MIN (fully counterclockwise)</div> <ol style="list-style-type: none"> <li>1) Input a 0.05μs marker signal.</li> <li>2) Adjust so that the marker peak and scale coincides at every div.</li> <li>3) The marker signal for 0.2μs is inputted, 42 clause is checked, and when having shifted it readjusts.</li> </ol> (Repeat 42 clause and 43 clauses several times.)
43	Moving character	TC302	X74-1640	<div>Set R/O capacitor to indication A-SWEEP TIME : 1ms    X10MAG: ON</div> <ol style="list-style-type: none"> <li>1) Adjust so that the R/O character does not move.</li> </ol>
44	D.T.POSI ※ only with a "LS 8106A"	VR103 (Start) VR104 (Stop)	X74-1640	<div>H.MODE : ALT                                      AC-DC : GND SWEEP TIME : 1ms                              B.SWEEP TIME : 10μs</div> <ol style="list-style-type: none"> <li>1) Turn the MAIN and FINE potentiometers of D.T.M. control fully counterclockwise.</li> <li>2) Adjust the R/O display to 0.40 ms with FINE.</li> <li>3) Adjust VR103 so that the start of B sweep is aligned with 0.4 div., of the scale.</li> <li>4) Turn the MAIN and FINE potentiometers of D.T.M. control fully clockwise.</li> <li>5) Adjust the R/O display to 10.00 ms with FINE.</li> <li>6) Adjust VR104 so that the start of B sweep is aligned with 10:00 div., of the scale.</li> </ol>
45	D.T.POSI ※ only with a "LS 8105A"	Start: VR103 Start: VR104	X74-1640	<div>AC/DC: GND                                      H. MODE: ALT SWEEP TIME: 1ms                              B. SWEEP: 10μs</div> <ol style="list-style-type: none"> <li>1) Turn the MAIN and FINE potentiometer of D.T.M. control fully counterclockwise.</li> <li>2) Adjust VR103 so that the start of B-SWEEP is aligned with 0.12div., of the scale.</li> <li>3) Turn the MAIN and FINE potentiometers of D.T.M. VR control fully clockwise.</li> <li>4) Adjust VR104 so that the end of B-SWEEP is aligned with 10.0 div., of the scale.</li> </ol>

# LS 8105A/LS 8106A

## ADJUSTMENT

No.	Item	Adjustment	P.C.B.	Procedure
46	CH1 1MHz square wave	TC1 TC62 VR5 TC106	X73-2210	<div>V.MODE : CH1                      VOLTS : 10mV</div> <div>AC-DC : DC                        H.MODE : A</div>
			X73-2240	1) Input 1MHz square wave to CH1 and set its amplitude to 5 div. 2) Adjust the waveform to the best point. 3) Check that the overshoot in each range from 5mV to 0.1V is within the specification.
47	CH2 1MHz square wave	TC205 TC206 VR208	X73-2240	<div>V.MODE : CH2                      VOLTS : 10mV</div> <div>AC-DC : DC                        H.MODE : A</div>
				1) Input 1MHz sine wave to CH1 and set its amplitude to 5 div. 2) Adjust the waveform to the best point. 3) Check that the overshoot in each range from 5mV to 0.1V is within the specification.
48	CH3 1MHz square wave	TC305	X73-2240	<div>V.MODE : CH3                      H.MODE : A</div>
				1) Input a 1MHz square wave to CH3 and set its amplitude to 6 div. 2) Adjust the waveform to the best point.
49	CAL voltage	VR51	X68-1920	<div>V.MODE : CH1                      AC-DC : GND</div> <div>VOLTS : 10mV                    H.MODE : A</div>
				1) Set the multimeter at ACV. 2) Measure the CAL terminal voltage by means of the multimeter. 3) Set the voltage at 496mV by means of VR51.

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

1

Ref. No	8105A	8106A	Parts No.	Name & Description
OVER ALL LS 8105A (Y70-2360-01)/LS 8106A (Y70-2340-01)				
			150JKM31	CRT
			A01-4071-02 A01-4083-02 A13-2229-12 A13-2245-02 A13-2246-22	CASE; TOP CASE; BOTTOM FRAME; LEFT FRAME; RIGHT FRAME; CENTER
		-	A21-2479-13 A21-2620-04 A21-2477-13 A21-2619-04 A22-1307-02	DECORATIVE PANEL; LARGE [LS 8105A] DECORATIVE PANEL; SMALL [LS 8105A] DECORATIVE PANEL; LARGE [LS 8106A] DECORATIVE PANEL; SMALL [LS 8106A] SUB PANEL
		-	A63-0176-01 A63-0264-02 A63-0262-02 A83-0127-12	MOLD PANEL PANEL [LS 8105A] PANEL [LS 8106A] REAR PANEL
			B11-0540-04 B41-0710-14 B41-2083-04 B42-3820-05 B42-6155-08	FILTER LABEL CAUTION LABEL; PL GND LABEL LABEL
		-	B63-0534-00 B63-0535-00 B73-0283-04 B73-0282-04	INSTRUCTION MANUAL; JAPANESE INSTRUCTION MANUAL; ENGLISH MODEL No. PLATE [LS 8105A] MODEL No. PLATE [LS 8106A]
			D21-0935-04	EXTENSION SHAFT
			E21-0686-04 E23-0552-04 E30-1929-05 E30-1950-05 E30-1951-05	TERMINAL; CA GROUND TERMINAL BS POWER CORD JIS POWER CORD UL/CSA POWER CORD
			E30-1952-05 E30-1953-05 E68-0619-05	CEE POWER CORD SAA POWER CORD AC SELECTOR
		-	F05-4016-05 F06-1022-05 F10-2523-33 F11-1206-13 F11-1269-03	FUSE, TIME LAG 0.4A/250V (5*20) FUSE, TIME LAG 1A/250V (5*20) SHIELD PLATE CRT SHIELD SHIELD CASE
			F15-0733-04 F20-3013-13 F29-0528-05	FELT INSULATOR INSULATOR TUBE
		-	G13-0770-04 G13-0760-13 G16-0618-04	CUSHION CUSHION SHEET; DIFFUSION
			H12-3234-05 H12-3235-05 H20-1727-04 H53-0367-03	FOAMED STYREN PAD; FRONT FOAMED STYREN PAD; REAR VINYL COVER CARTON BOX
			J02-0540-05 J19-1620-05	RUBBER FOOT HOLDER

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2

Ref. No	8105A	8106A	Parts No.	Name & Description
			J21-4853-04 J21-4855-14 J21-4999-04 J42-0558-05 J59-0403-05	BRACKET BRACKET BRACKET BUSH NYLON RIVET
			K01-0561-02 K24-3007-04 K29-0881-04 K21-0940-04 K21-0955-04	HANDLE POWER SWITCH KNOB; VR KNOB; SWEEP TIME/DIV (LARGE) KNOB; SWEEP TIME/DIV (SMALL)
		-	K27-3610-04 K27-3627-14 K29-0890-03 K29-7202-04 K21-0945-14	PUSH KNOB (13 USED) KNOB; LEVER KNOB; VOLTS/DIV KNOB; VARIABLE KNOB; VARIABLE (LARGE)
		-	K21-0946-04 K29-0899-04	KNOB; VARIABLE (SMALL) PUSH KNOB (24 USED)
			L07-1541-15 L39-0531-05 LN322GP	POWER TRANSFORMER ROTATION COIL LED; GREEN
			N08-0611-04 N14-0622-05 N19-0748-05 N32-3006-41 N32-3008-41	SCREW, BINDING HD TOOTHED WASHER (M4) WASHER (M3) SCREW, FLAT HD (M3*6) SCREW, FLAT HD (M3*8)
			N66-3006-41 N66-3008-41 N66-4012-41 N67-3008-41 N88-3006-41	SCREW, SEMS PAN HD (M3*6) SCREW, SEMS PAN HD (M3*8) SCREW, SEMS PAN HD (M4*12) SCREW, SEMS PAN HD (M3*8) SCREW, FLAT TAPTITE (3*6)
			N88-3008-41 N89-3008-41 N89-3012-41 N90-4012-41	SCREW, FLAT TAPTITE (3*8) SCREW, BINDING TAPTITE (3*8) SCREW, BINDING TAPTITE (3*12) SCREW, TP (M4*12)
			S68-0687-05	PUSH SWITCH
			W01-0406-14 W01-0503-04	DRIVER CORD WRAP
		-	X66-1560-00 X68-1920-01 X73-2210-03 X73-2240-03 X74-1640-03	PANEL UNIT [LS 8105A] POWER & HIGHVOLTAGE UNIT [LS 8105A] FINAL AMP UNIT [LS 8105A] VERTICAL UNIT [LS 8105A] HORIZONTAL UNIT [LS 8105A]
		-	X81-3270-00 X66-1540-00 X66-1550-00 X68-1920-00 X73-2210-02	DILAY LINE UNIT [both model] PANEL SWITCH UNIT [LS 8106A] PANEL VR UNIT [LS 8106A] POWER & HIGHVOLTAGE UNIT [LS 8106A] FINAL AMP UNIT [LS 8106A]
		-	X73-2240-02 X74-1640-02 X77-2350-00	VERTICAL UNIT [LS 8106A] HORIZONTAL UNIT [LS 8106A] READ OUT UNIT [LS 8106A]

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LS 8105A/LS 8106A  
PARTS LIST (UNIT)



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1

Ref. No	Parts No.	Name & Description			
LS 8106A PANEL SWITCH UNIT (X66-1540-00)					
	J73-0467-12	PCB (UNMOUNTED)			
C1	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V
C2	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V
C3	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V
C4	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V
C5	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V
CN8	E40-5279-05	PIN CONNECTOR		18P	
D1	MA111	DIODE			
D2	MA111	DIODE			
D3	MA111	DIODE			
D4	MA111	DIODE			
D5	B30-3044-05	LED			
D6	B30-3044-05	LED			
D7	B30-3044-05	LED			
D8	B30-3044-05	LED			
D9	B30-3044-05	LED			
D10	B30-3044-05	LED			
D11	B30-3044-05	LED			
D12	B30-3044-05	LED			
D13	B30-3044-05	LED			
D14	B30-3044-05	LED			
D15	B30-3044-05	LED			
D16	B30-3044-05	LED			
D17	B30-3044-05	LED			
D18	B30-3044-05	LED			
D19	B30-3044-05	LED			
D20	B30-3044-05	LED			
D21	B30-3044-05	LED			
D22	B30-3044-05	LED			
D23	B30-3044-05	LED			
D24	B30-3044-05	LED			
D25	B30-3044-05	LED			
D26	B30-3044-05	LED			
D27	B30-3044-05	LED			
D28	B30-3044-05	LED			
D29	B30-3044-05	LED			
D30	B30-3044-05	LED			
D33	B30-3044-05	LED			
D34	B30-3044-05	LED			
D35	B30-3044-05	LED			
IC1	HD74HC595FP	IC, 8-BIT SHIFT REGISTOR/LATCH (3-STATE)			
IC2	HD74HC595FP	IC, 8-BIT SHIFT REGISTOR/LATCH (3-STATE)			
IC3	HD74HC595FP	IC, 8-BIT SHIFT REGISTOR/LATCH (3-STATE)			
IC4	HD74HC595FP	IC, 8-BIT SHIFT REGISTOR/LATCH (3-STATE)			
R1	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R2	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R3	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R4	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R5	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R6	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R7	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R8	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W

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Ref. No	Parts No.	Name & Description			
R9	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R10	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R11	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R12	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R13	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R14	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R15	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R16	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R17	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R18	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R19	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R20	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R21	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R22	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R23	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R24	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R25	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R26	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
S1	S70-0439-05	TACT SWITCH			
S2	S70-0439-05	TACT SWITCH			
S3	S70-0439-05	TACT SWITCH			
S4	S70-0439-05	TACT SWITCH			
S5	S70-0439-05	TACT SWITCH			
S9	S70-0439-05	TACT SWITCH			
S10	S70-0439-05	TACT SWITCH			
S11	S70-0439-05	TACT SWITCH			
S12	S70-0439-05	TACT SWITCH			
S17	S70-0439-05	TACT SWITCH			
S18	S70-0439-05	TACT SWITCH			
S19	S70-0439-05	TACT SWITCH			
S20	S70-0439-05	TACT SWITCH			
S21	S70-0439-05	TACT SWITCH			
S22	S70-0439-05	TACT SWITCH			
S23	S70-0439-05	TACT SWITCH			
S24	S70-0439-05	TACT SWITCH			
S25	S70-0439-05	TACT SWITCH			
S26	S70-0439-05	TACT SWITCH			
S27	S70-0439-05	TACT SWITCH			
S28	S70-0439-05	TACT SWITCH			
S29	S70-0439-05	TACT SWITCH			
S30	S70-0439-05	TACT SWITCH			
S31	S70-0439-05	TACT SWITCH			

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# LS 8105A/LS 8106A

## PARTS LIST (ELECTRICAL)

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1

Ref. No.	Parts No.	Name & Description			
LS 8106A PANEL VR UNIT (X66-1550-00)					
	A33-0505-14	REFLECTING PLATE			
	E31-0302-05	JUMPER WIRE			
	E31-1960-05	JUMPER WIRE			
	E31-2170-05	JUMPER WIRE			
	J73-0468-02	PCB (UNMOUNTED)			
C1	CE04CW1A221M	CAP. ELECTRO	220u	20%	10V
C2	CE04CW1E101M	CAP. ELECTRO	100u	20%	25V
C3	CE04CW1E101M	CAP. ELECTRO	100u	20%	25V
C4	CK45FF1H103Z	CAP CERAMIC	0.01u	-20/80%	50V
C5	CK45FF1H103Z	CAP CERAMIC	0.01u	-20/80%	50V
CN20	E40-5286-05	PIN CONNECTOR	25P		
CN101	E40-0218-05	PIN CONNECTOR	2P		
IC1	NJM4558L	IC, DUAL OP AMP			
PL101	B30-3016-05	LAMP			
PL102	B30-3016-05	LAMP			
PL103	B30-3016-05	LAMP			
Q101	2SC1740S(R,S)	TR. SI, NPN			
Q102	2SC1740S(R,S)	TR. SI, NPN			
R1	RN14BK2C7502D	RES. METAL FILM	75K	0.5%	1/6W
R2	RN14BK2C3902D	RES. METAL FILM	39K	0.5%	1/6W
R3	RN14BK2C1962D	RES. METAL FILM	19.6K	0.5%	1/6W
R4	RN14BK2C2002D	RES. METAL FILM	20K	0.5%	1/6W
R5	RN14BK2C2203F	RES. METAL FILM	220K	1%	1/6W
R6	RN14BK2C2202F	RES. METAL FILM	22K	1%	1/6W
R7	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R8	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R9	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R10	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R11	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R12	RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R13	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R14	RD14BB2C101J	RES. CARBON	100	5%	1/6W
R15	RD14BB2C101J	RES. CARBON	100	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	RN14BK2C2002D	RES. METAL FILM	20K	0.5%	1/6W
R27	RD14BB2C243J	RES. CARBON	24K	5%	1/6W
R105	RN14BK2C3302F	RES. METAL FILM	33K	1%	1/6W
R107	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R113	RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R116	RD14BB2C182J	RES. CARBON	1.8K	5%	1/6W
R117	RD14BB2C123J	RES. CARBON	12K	5%	1/6W

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R118	RD14BB2C153J	RES. CARBON	15K	5%	1/6W
R119	RD14BB2C123J	RES. CARBON	12K	5%	1/6W
R120	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
S1	W02-0498-05	ROTARY ENCODER			
S2	W02-0498-05	ROTARY ENCODER			
S3	W02-0498-05	ROTARY ENCODER			
VR1	R31-0816-05	VARIABLE RESISTOR	20K		
VR2	R31-0815-05	VARIABLE RESISTOR	20K		
VR3	R31-0816-05	VARIABLE RESISTOR	20K		
VR4	R31-0815-05	VARIABLE RESISTOR	20K		
VR5	R31-0816-05	VARIABLE RESISTOR	20K		
VR6	R31-0816-05	VARIABLE RESISTOR	20K		
VR7	R31-0816-05	VARIABLE RESISTOR	20K		
VR8	R31-0816-05	VARIABLE RESISTOR	20K		
VR9	R31-0815-05	VARIABLE RESISTOR	20K		
VR101	R05-3521-05	VARIABLE RESISTOR	20K		
VR102	R05-3521-05	VARIABLE RESISTOR	20K		
VR103	R12-5540-05	RES. SEMI FIXED	100K		
VR104	R12-5540-05	RES. SEMI FIXED	100K		
VR105	R05-3521-05	VARIABLE RESISTOR	20K		

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LS 8105A/LS 8106A  
PARTS LIST

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LS 8105A PANEL UNIT (X66-1560-00)						
	A33-0505-14	REFLECTING PLATE				
	J73-0470-12	PCB (UNMOUNTED)				
C1	CE04CW1A221M	CAP. ELECTRO	220u	20%	10V	
C2	CE04CW1E101M	CAP. ELECTRO	100u	20%	25V	
C3	CE04CW1E101M	CAP. ELECTRO	100u	20%	25V	
C4	C91-0769-05	CAP. CERAMIC	0.01u		16V	
CN11	E40-5218-05	PIN CONNECTOR	10P			
CN25	E40-5220-05	PIN CONNECTOR	12P			
CN26	E40-7579-05	PIN CONNECTOR	27P			
CN32	E40-0218-05	PIN CONNECTOR	2P			
CN101	E40-0218-05	PIN CONNECTOR	2P			
CP1	R90-1182-05	RES. NETWORK				
CP2	R90-1182-05	RES. NETWORK				
CP3	R90-1182-05	RES. NETWORK				
CP4	R90-1182-05	RES. NETWORK				
CP5	R90-0644-05	RES. NETWORK	4.7K*5			
CP6	R90-0644-05	RES. NETWORK	4.7K*5			
IC1	NJM4558L	IC, DUAL OP AMP				
PL101	B30-3016-05	LAMP				
PL102	B30-3016-05	LAMP				
PL103	B30-3016-05	LAMP				
Q3	2SA933AS(R<S)	TR. SI, PNP				
Q101	2SC1740S(R,S)	TR. SI, NPN				
Q102	2SC1740S(R,S)	TR. SI, NPN				
R5	RN14BK2C1002D	RES. METAL FILM	10K	0.5%	1/6W	
R6	RN14BK2C2002D	RES. METAL FILM	20K	0.5%	1/6W	
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	
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	
R21	RD14BB2C101J	RES. CARBON	100	5%	1/6W	
R22	RD14BB2C101J	RES. CARBON	100	5%	1/6W	
R23	RD14BB2C101J	RES. CARBON	100	5%	1/6W	
R25	RD14BB2C101J	RES. CARBON	100	5%	1/6W	
R27	RD14BB2C101J	RES. CARBON	100	5%	1/6W	
R28	RD14BB2C101J	RES. CARBON	100	5%	1/6W	
R29	RD14BB2C101J	RES. CARBON	100	5%	1/6W	
R30	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W	
R31	RD14BB2C101J	RES. CARBON	100	5%	1/6W	
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	

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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	
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	RD14BB2C101J	RES. CARBON	100	5%	1/6W	
R52	RD14BB2C101J	RES. CARBON	100	5%	1/6W	
R105	RD14BB2C333J	RES. CARBON	33K	5%	1/6W	
R107	RD14BB2C102J	RES. CARBON	1K	5%	1/6W	
R113	RD14BB2C102J	RES. CARBON	1K	5%	1/6W	
R116	RD14BB2C182J	RES. CARBON	1.8K	5%	1/6W	
R118	RD14BB2C163J	RES. CARBON	16K	5%	1/6W	
R119	RD14BB2C123J	RES. CARBON	12K	5%	1/6W	
R120	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W	
S1	S68-0643-05	PUSH SWITCH				
S2	S68-0643-05	PUSH SWITCH				
S3	S68-0643-05	PUSH SWITCH				
S4	S68-0643-05	PUSH SWITCH				
S5	S68-0643-05	PUSH SWITCH				
S6	S68-0643-05	PUSH SWITCH				
S7	S64-0610-05	LEVER SWITCH				
S8	S64-0610-05	LEVER SWITCH				
S9	S64-0611-05	LEVER SWITCH				
S10	S64-0609-05	LEVER SWITCH				
S12	S68-0643-05	PUSH SWITCH				
S13	S68-0643-05	PUSH SWITCH				
S14	S68-0643-05	PUSH SWITCH				
S15	S60-0618-05	ROTARY SWITCH				
S16	S60-0618-05	ROTARY SWITCH				
S17	S68-0643-05	PUSH SWITCH				
S18	S68-0643-05	PUSH SWITCH				
S19	S68-0643-05	PUSH SWITCH				
S20	S68-0643-05	PUSH SWITCH				
S21	S60-0627-05	ROTARY SWITCH				
VR1	R05-3521-05	RES. VARIABLE RESISTOR	20K			
VR2	R05-3521-05	RES. VARIABLE RESISTOR	20K			
VR3	R05-3521-05	RES. VARIABLE RESISTOR	20K			
VR4	R05-3521-05	RES. VARIABLE RESISTOR	20K			
VR5	R05-3521-05	RES. VARIABLE RESISTOR	20K			
VR6	R05-3527-05	VARIABLE RESISTOR	20K			
VR7	R05-3521-05	RES. VARIABLE RESISTOR	20K			
VR8	R05-3527-05	VARIABLE RESISTOR	20K			
VR9	R05-3527-05	VARIABLE RESISTOR	20K			
VR10	R05-3523-05	VARIABLE RESISTOR	10K			
VR11	R05-3523-05	VARIABLE RESISTOR	10K			
VR12	R05-3523-05	VARIABLE RESISTOR	10K			
VR101	R05-3521-05	RES. VARIABLE RESISTOR	20K			
VR102	R05-3521-05	RES. VARIABLE RESISTOR	20K			
VR104	R12-5540-05	RES. SEMI FIXED	100K			
VR105	R05-3521-05	VARIABLE RESISTOR	20K			

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# LS 8105A/LS 8106A PARTS LIST

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1

Ref. No	8105A	8106A	Parts No.	Name & Description		
POWER HIGH VOLTAGE UNIT						
LS 8105A (X68-1920-01)/LS 8106A (X68-1920-00)						
A101			212-1511-05 212-2014-05 212-6011-05	THERMAL TUBE THERMAL TUBE THERMAL TUBE		
			E23-0557-14 E31-0302-05 E31-1960-05 E31-2170-05	EARTH LUG JUMPER WIRE JUMPER WIRE JUMPER WIRE		
			F01-0867-05 F01-2316-05	HEAT SINK HEAT SINK		
			J73-0471-22	PCB (UNMOUNTED)		
			N67-3008-41	SCREW, SEMS PAN HD		
			W02-2256-05	HIGH VOLTAGE BLOCK		
	C1		CE04EW2E470M	CAP. ELECTRO	47u	-20/80% 250V
	C2		CE04EW2E100M	CAP. ELECTRO	10u	-20/80% 250V
	C3		CK45FB1H102K	CAP. CERAMIC	1000p	10% 50V
	C4		CE04EW2A471M	CAP. ELECTRO	470u	-20/80% 100V
	C5		CE04LW2A220M	CAP. ELECTRO	22u	-20/80% 100V
C6		CK45FB1H222K	CAP. CERAMIC	2200p	10% 50V	
C7		CE04EW1E472M	CAP. ELECTRO	4700u	-20/80% 25V	
C8		CE04LW1C221M	CAP. ELECTRO	220u	-20/80% 16V	
C9		CE04LW1C221M	CAP. ELECTRO	220u	-20/80% 16V	
C10		CE04EW1E472M	CAP. ELECTRO	4700u	-20/80% 25V	
C11		CE04LW1C221M	CAP. ELECTRO	220u	-20/80% 16V	
C12		CE04LW1C221M	CAP. ELECTRO	220u	-20/80% 16V	
C13		CE04HW1H010M	CAP. ELECTRO	1u	-20/80% 50V	
C14		CE04HW1H010M	CAP. ELECTRO	1u	-20/80% 50V	
C15		CE04EW1A103M	CAP. ELECTRO	0.1u	-20/80% 10V	
C16		CE04LW0J471M	CAP. ELECTRO	470u	-20/80% 6.3V	
C17		CE04LW0J331M	CAP. ELECTRO	330u	-20/80% 6.3V	
C18		CE04LW1E220M	CAP. ELECTRO	22u	-20/80% 25V	
C51		CK45FB1H472K	CAP. CERAMIC	4700p	10% 50V	
C52		C91-0769-05	CAP. CERAMIC	0.01u	20% 16V	
C53		CE04LW1C470M	CAP. ELECTRO	47u	-20/80% 16V	
C101		CK45FB2H472K	CAP. CERAMIC	4700p	10% 500V	
C102		CE04LW2E010M	CAP. ELECTRO	1u	-20/80% 250V	
C103		CC45FCH2H020C	CAP. CERAMIC	2p	0.25% 500V	
C104		CK45FB2H472K	CAP. CERAMIC	4700p	10% 500V	
C105		CE04LW2E010M	CAP. ELECTRO	1u	-20/80% 250V	
C106		CE04LW2E010M	CAP. ELECTRO	1u	-20/80% 250V	
C107		C91-1317-05	CAP. CERAMIC	0.01u	-20/80% 2KV	
C108		C91-1317-05	CAP. CERAMIC	0.01u	-20/80% 2KV	
C110		C91-1317-05	CAP. CERAMIC	0.01u	-20/80% 2KV	
C111		C91-1317-05	CAP. CERAMIC	0.01u	-20/80% 2KV	
C112		C91-1317-05	CAP. CERAMIC	0.01u	-20/80% 2KV	
C113		CE04LW2E010M	CAP. ELECTRO	1u	-20/80% 250V	
C114		CC45FCH2H101J	CAP. CERAMIC	100p	5% 500V	
C115		CK45FB2H102K	CAP. CERAMIC	1000p	10% 500V	
C116		CK45FB2H102K	CAP. CERAMIC	1000p	10% 500V	
C117		CE04LW1H101M	CAP. ELECTRO	100u	-20/80% 50V	

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C118			CE04LW1E221M	CAP. ELECTRO	220u	-20/80% 25V
C119			CK45FB1H472K	CAP. CERAMIC	4700p	10% 50V
C120			CK45FB1H222K	CAP. CERAMIC	2200p	10% 50V
C121			CK45E3D102P	CAP. CERAMIC	1000p	100/-0% 2KV
C125			C91-2663-05	CAP. CERAMIC	4700p	2KV
C126			CE04EW1E102M	CAP. ELECTRO	1000u	-20/80% 25V
C127			CE04EW1E102M	CAP. ELECTRO	1000u	-20/80% 25V
C128			CK45FB2H472K	CAP. CERAMIC	4700p	10% 500V
C150	-		C91-1361-05	CAP. FILM	0.01u	100V
CN6	-		E40-3239-05	PIN CONNECTOR	4P	
CN16			E40-7040-05	PIN CONNECTOR	13P	
CN17			E40-3305-05	PIN CONNECTOR	8P	
CN31			E40-3302-05	PIN CONNECTOR	5P	
CN32			E40-3299-05	PIN CONNECTOR	2P	
CN99			E40-0211-05	PIN CONNECTOR	2P	
D1			S1VB60	BRIDGE DIODE		
D2			S1VB60	BRIDGE DIODE		
D3			S4VB20F	BRIDGE DIODE		
D4			D4SBS6	DIODE		
D5			ISS133	DIODE		
D6			ISS133	DIODE		
D7			MTZ131C	ZENER DIODE		
D8			MTZ131C	ZENER DIODE		
D9			MTZ7.5JA	ZENER DIODE		
D51			ISS133	DIODE		
D52			ISS133	DIODE		
D101			1SS83	DIODE		
D102			1SS83	DIODE		
D103			1SS83	DIODE		
D104			1SS83	DIODE		
D105			1SS83	DIODE		
D106			1SS83	DIODE		
D107			1SS83	DIODE		
D108			1SS83	DIODE		
D109			ISS133	DIODE		
D110			ISS133	DIODE		
D111			ISS133	DIODE		
F101			F53-0107-05	THERMAL FUSE	0.5A	
IC1			KMA02	HIC		
IC51			NJM4558D	IC, DUAL OP AMP		
IC101			NJM4558D	IC, DUAL OP AMP		
L101			L40-1011-50	FERRI INDUCTOR	100U	
L102			L40-1011-50	FERRI INDUCTOR	100U	
L103			L40-3925-51	FERRI INDUCTOR	3.9M	
L104			L33-0842-05	FERRI INDUCTOR	150MH	
NL51			RA-201P-V6-2A	NEON LAMP		
NL101			RA-201P-V6-2A	NEON LAMP		
NL102			RA-201P-V6-2A	NEON LAMP		
P2			E23-1520-05	EARTH TERMINAL		
P3			E23-1520-05	EARTH TERMINAL		
Q1			2SA1499(P)	TR. SI, PNP		
Q2			2SC2551(O)	TR. SI, NPN		

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LS 8105A/LS 8106A

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Ref. No	8105A	8106A	Parts No.	Name & Description			
Q3			2SA1304	TR. SI, PNP			
Q4			2SC2551(O)	TR. SI, NPN			
Q5			2SB1642	TR. SI, PNP			
Q6			2SD2531	TR. SI, NPN			
Q7			2SB1642	TR. SI, PNP			
Q51			2SA720A(R)	TR. SI, PNP			
Q52			2SC1318A(R)	TR. SI, NPN			
Q101			2SA933S(R<S)	TR. SI, PNP			
Q102			2SA1208(S)	TR. SI, PNP			
Q103			2SC2910(S)	TR. SI, NPN			
Q104			2SA1208(S)	TR. SI, PNP			
Q105			2SC2910(S)	TR. SI, NPN			
Q106			2SC2551(O)	TR. SI, NPN			
Q107			2SD613(E)	TR. SI, NPN			
Q108			2SA933S(R<S)	TR. SI, PNP			
R1			R92-2718-05	RESISTOR	2.7K	3W	
R2			RD14DB3D103J	RES. CARBON	10K	5%	2W
R3			RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R4			R92-2719-05	RES. SPECIAL POWER	390	3W	
R6			RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R7			RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R9		-	R92-2720-05	RESISTOR	18	3W	
R9		-	R92-2721-05	RESISTOR	24	3W	
R12		-	R92-2720-05	RES. SPECIAL POWER	18	3W	
R12		-	R92-2721-05	RESISTOR	24	3W	
R14			RD14BB2C223J	RES. CARBON	22K	5%	1/6W
R15			RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R16		-	R92-2722-05	RESISTOR	10	3W	
R51		-	RN14BK2C5102F	RES. METAL FILM	51K	1%	1/6W
R51		-	RN14BK2C4702F	RES. METAL FILM	47K	1%	1/6W
R54			RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R55			RN14BK2C6800F	RES. METAL FILM	680	1%	1/6W
R56			RN14BK2C4702F	RES. METAL FILM	47K	1%	1/6W
R57			RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R58			RD14BB2C101J	RES. CARBON	100	5%	1/6W
R59			RN14BK2C6201F	RES. METAL FILM	6.2K	1%	1/6W
R60			RD14BB2C183J	RES. CARBON	18K	5%	1/6W
R61			RD14BB2C204J	RES. CARBON	200K	5%	1/6W
R62			RD14BB2C101J	RES. CARBON	100	5%	1/6W
R63			RD14BB2E102J	RES. CARBON	1K	5%	1/4W
R101			RD14BB2C100J	RES. CARBON	10	5%	1/6W
R102			RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R103			RD14BB2C134J	RES. CARBON	130K	5%	1/6W
R104			RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R105			RD14BB2C101J	RES. CARBON	100	5%	1/6W
R107			RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R108			RD14BB2C134J	RES. CARBON	130K	5%	1/6W
R109			RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R110			RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R111			RD14BB2C753J	RES. CARBON	75K	5%	1/6W
R112			RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R113			RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R114			RD14BB2C134J	RES. CARBON	130K	5%	1/6W
R115			RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R116			RD14BB2C470J	RES. CARBON	47	5%	1/6W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R117			RD14BB2C204J	RES. CARBON	200K	5%	1/6W
R118			RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R119			RD14BB2E515J	RES. CARBON	5.1M	5%	1/4W
R120			RD14BB2C470J	RES. CARBON	47	5%	1/6W
R121			RD14BB2E515J	RES. CARBON	5.1M	5%	1/4W
R122			RD14BB2C683J	RES. CARBON	68K	5%	1/6W
R123			RD14BB2C474J	RES. CARBON	470K	5%	1/6W
R124			RD14BB2C101J	RES. CARBON	100	5%	1/6W
R125			R92-1561-05	RESISTOR	3.9M	5%	1/4W
R126			R92-1562-05	RESISTOR	8.2M	5%	1/4W
R127			RD14BB2C474J	RES. CARBON	470K	5%	1/6W
R128			RD14BB2C474J	RES. CARBON	470K	5%	1/6W
R129			RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R130			RD14BB2C221J	RES. CARBON	220	5%	1/6W
R131			RD14BB2C392J	RES. CARBON	3.9K	5%	1/6W
R132			RD14BB2C153J	RES. CARBON	15K	5%	1/6W
R133			RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R134			RD14BB2C124J	RES. CARBON	120K	5%	1/6W
R135			RN14BK2C1203F	RES. METAL FILM	120K	1%	1/6W
R136			R92-1564-05	RESISTOR	15M	1%	1/2W
R138			RD14BB2C473J	RES. CARBON	47K	5%	1/6W
R140			RD14BB2C3R9J	RES. CARBON	3.9	5%	1/6W
R150	-		RD14BB2E153J	RES. CARBON	15K	5%	1/4W
VR51			R12-1858-05	RES. SEMI FIXED	2.2K		
VR101			R12-6507-05	RES. SEMI FIXED	470K		
VR102			R12-5545-05	RES. SEMI FIXED	2.2M		
X1	-		L77-2577-05	CRYSTAL RESONATOR			

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1

Ref. No	8105A	8106A	Parts No.	Name & Description			
FINAL AMP UNIT							
LS 8105A (X73-2210-03)/LS 8106A (X73-2210-02)							
C1 C3 C4 C6 C8  C9 C10 C11 C12 C13  C14 C15 C15 C16 C16  C18 C101 C102 C103 C104  C106 C107 C108 C110 C111  C201 C202 C203 C207 C209  C211 C212 C300 C301 C302  CN4 CN5 CN14 CN18 CN19  CN21 CN22 CN105 CN114 CN900			E31-2170-05	JUMPING WIRE			
			F01-2318-04 F01-2367-05	HEAT SINK HEAT SINK			
			J73-0285-52	PCB (UNMOUNTED)			
			N67-2610-41	SCREW, SEMS PAN HD			
			CF92FV1H103J	CAP. METAL FILM	0.01u	5%	50V
			C90-3178-05	CAP. ELECTRIC DOUBLE LAYER	0.047	-20/80%	5.5V
			C90-3178-05	CAP. ELECTRIC DOUBLE LAYER	0.047	-20/80%	5.5V
			CC45FSL1H821J	CAP. CERAMIC	820p	5%	50V
			CF92FV1H102J	CAP. METAL FILM	1000p	5%	50V
			CF92FV1H102J	CAP. METAL FILM	1000p	5%	50V
			CC45FCH1H080D	CAP. CERAMIC	8p	0.5%	50V
			CC45FCH1H470J	CAP. CERAMIC	47p	5%	50V
			CC45FCH1H020C	CAP. CERAMIC	2p	0.25%	50V
			CC45FCH1H150J	CAP. CERAMIC	15p	5%	50V
			CC45FSL1H391J	CAP. CERAMIC	390p	5%	50V
			CC45FCH1H050C	CAP. CERAMIC	5p	0.25%	50V
			CC45FCH1H060C	CAP. CERAMIC	3p	0.25%	50V
			CC45FCH1H050C	CAP. CERAMIC	5p	0.25%	50V
			CC45FCH1H060C	CAP. CERAMIC	3p	0.25%	50V
			CF92V1H474J	CAP. METAL FILM	0.47u	5%	50V
			CE04LW1E101M	CAP. ELECTRO	100u	20%	25V
			C91-0769-05	CAP. CERAMIC	0.01u	20%	16V
			CE04LW1E101M	CAP. ELECTRO	100u	20%	25V
			C91-0769-05	CAP. CERAMIC	0.01u	20%	16V
			C91-1357-05	CAP. FILM	0.1u	5%	100V
			C91-0769-05	CAP. CERAMIC	0.01u	20%	16V
			C91-0769-05	CAP. CERAMIC	0.01u	20%	16V
			CK45FB1H102K	CAP. CERAMIC	1000p	10%	50V
			C91-0769-05	CAP. CERAMIC	0.01u	20%	16V
			C91-2659-05	CAP. FILM	0.1u		250V
			C91-2584-05	CAP. CERAMIC	1000p		400V
			C91-2584-05	CAP. CERAMIC	1000p		400V
			CE04LW1E101M	CAP. ELECTRO	100u	20%	25V
			CE04LW0J101M	CAP. ELECTRO	100u	20%	6.3V
			CC45FCH1H270J	CAP. CERAMIC	27p	5%	50V
			CE04LW1A330M	CAP. ELECTRO	33u	20%	10V
			CE04HW0J471M	CAP. ELECTRO	470u	20%	6.3V
			CE04HW0J471M	CAP. ELECTRO	470u	20%	6.3V
			CE04HW1C100M	CAP. ELECTRO	10u	20%	16V
			E40-7515-05	PIN CONNECTOR	3P		
			E40-3300-05	PIN CONNECTOR	3P		
			E40-5066-05	PIN CONNECTOR	9P		
			E40-7518-05	PIN CONNECTOR	6P		
			E40-7515-05	PIN CONNECTOR	3P		
			E40-7587-05	PIN CONNECTOR	2P		
			E40-7420-05	PIN CONNECTOR	7P		
			E40-7515-05	PIN CONNECTOR	3P		
			E40-7517-05	PIN CONNECTOR	5P		
			E01-0103-05	IC SOCKET	14P		

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Ref. No	8105A	8106A	Parts No.	Name & Description			
D100 D101	- -		MA700 MA700	DIODE DIODE			
IC1		-	KMG01	HIC			
J201			E04-0277-05	RF COAXIAL CONNECTOR			
L2 L3 L61 L62 L63			L40-1001-17 L40-1081-70 L40-4781-17 L40-6881-17 L40-4781-17	FERRI INDUCTOR FERRI INDUCTOR FERRI INDUCTOR FERRI INDUCTOR FERRI INDUCTOR	10u 0.1u 0.47uH 0.68uH 0.47uH	10% 10% 10% 10% 10%	
L64 L201 L202 L203		-	L40-6881-17 L33-0808-05 L40-1581-70 L40-1581-70	FERRI INDUCTOR CHOKE COIL FERRI INDUCTOR FERRI INDUCTOR	0.68uH  0.15u 0.15u	10%  10% 10%	
P1 P2 P3			E23-1520-05 E23-1520-05 E23-1520-05	EARTH TERMINAL EARTH TERMINAL EARTH TERMINAL			
Q1 Q2 Q3 Q4 Q5			2SA1161 2SA1161 2SC3779(D) 2SC3779(D) 2SC3779(D)	TR. SI, PNP TR. SI, PNP TR. SI, NPN TR. SI, NPN TR. SI, NPN			
Q6 Q7 Q8 Q9 Q10			2SC3779(D) 2SC3779(D) 2SC3779(D) 2SC3779(D) 2SC3779(D)	TR. SI, NPN TR. SI, NPN TR. SI, NPN TR. SI, NPN TR. SI, NPN			
Q11 Q12 Q100 Q113 Q114		-	2SC3779(D) 2SC3779(D) 2SC1740S(R,S) 2SC4479 2SC4479	TR. SI, NPN TR. SI, NPN TR. SI, NPN TR. SI, NPN TR. SI, NPN			
Q201 Q202			2SC3779(D) 2SC3779(D)	TR. SI, NPN TR. SI, NPN			
R1 R2 R3 R4 R5			RD14BB2C202J RD14BB2C182J RD14BB2E822J RD14BB2C221J RD14BB2C131J	RES. CARBON RES. CARBON RES. CARBON RES. CARBON RES. CARBON	2K 1.8K 8.2K 220 130	5% 5% 5% 5% 5%	1/6W 1/6W 1/4W 1/6W 1/6W
R6 R7 R8 R9 R10			RD14BB2C221J RD14BB2C751J RD14BB2C911J RD14BB2C911J RD14BB2C220J	RES. CARBON RES. CARBON RES. CARBON RES. CARBON RES. CARBON	220 750 910 910 22	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R11 R12 R13 R14 R17			RD14BB2C132J RD14BB2C132J RD14BB2C220J RD14BB2E273J RD14BB2C220J	RES. CARBON RES. CARBON RES. CARBON RES. CARBON RES. CARBON	1.3K 1.3K 22 27K 22	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/4W 1/6W
R18 R19 R20 R21 R22			RD14BB2C220J RD14BB2C203J RD14BB2C222J RD14BB2C101J RN14BK2C3900F	RES. CARBON RES. CARBON RES. CARBON RES. METAL FILM RES. METAL FILM	22 20K 2.2K 100 39	5% 5% 5% 5% 1%	1/6W 1/6W 1/6W 1/6W 1/6W

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LS 8105A/LS 8106A  
PARTS LIST

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R23			RD14BB2C753J	RES. CARBON	75K	5%	1/6W
R24			RD14BB2C333J	RES. CARBON	33K	5%	1/6W
R25			RD14BB2C221J	RES. CARBON	220	5%	1/6W
R26			RD14BB2C221J	RES. CARBON	220	5%	1/6W
R27			RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R28			RD14BB2C332J	RES. CARBON	3.3K	5%	1/6W
R29			RD14BB2C220J	RES. CARBON	22	5%	1/6W
R30			RD14BB2C220J	RES. CARBON	22	5%	1/6W
R32	-		RD14BB2E222J	RES. CARBON	2.2K	5%	1/4W
R33	-		RD14BB2C622J	RES. CARBON	6.2K	5%	1/6W
R34		-	RD14BB2C203J	RES. CARBON	20K	5%	1/6W
R34	-		RD14BB2C241J	RES. CARBON	240	5%	1/6W
R35		-	RD14BB2C623J	RES. CARBON	62K	5%	1/6W
R36			R92-1061-05	RES. JUMPER	0		
R37			RD14BB2E332J	RES. CARBON	3.3K	5%	1/4W
R38	-		RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R39			RD14BB2C182J	RES. CARBON	1.8K	5%	1/6W
R42			RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R43			RD14BB2C152J	RES. CARBON	1.5K	5%	1/6W
R44			RD14BB2C562J	RES. CARBON	5.6K	5%	1/6W
R45			RD14BB2C362J	RES. CARBON	3.6K	5%	1/6W
R46			RD14BB2C821J	RES. CARBON	820	5%	1/6W
R47			RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R48			RD14BB2C102J	RES. CARBON	1K	5%	1/6W
R49			RD14BB2C470J	RES. CARBON	47	5%	1/6W
R50			RD14BB2C470J	RES. CARBON	47	5%	1/6W
R51			RD14BB2E220J	RES. CARBON	22	5%	1/4W
R52			RD14BB2E220J	RES. CARBON	22	5%	1/4W
R53			RD14BB2C1R0J	RES. METAL FILM	1	5%	1/6W
R54			RD14BB2C1R0J	RES. METAL FILM	1	5%	1/6W
R58			RD14BB2C183J	RES. CARBON	18K	5%	1/6W
R59			RD14BB2C153J	RES. CARBON	15K	5%	1/6W
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			RD14BB2C220J	RES. CARBON	22	5%	1/6W
R66			RD14BB2C220J	RES. CARBON	22	5%	1/6W
R67			RD14BB2C220J	RES. CARBON	22	5%	1/6W
R68			RD14BB2C220J	RES. CARBON	22	5%	1/6W
R69			RD14BB2C103J	RES. CARBON	10K	5%	1/6W
R71			RD14BB2C33R0F	RES. CARBON	33	1%	1/6W
R72			RN14BK2C39R0F	RES. METAL FILM	39	1%	1/6W
R73			R92-2751-05	RESISTOR	82		1W
R74			R92-2751-05	RESISTOR	82		1W
R75			R92-2750-05	RESISTOR	47		1W
R78			R92-2750-05	RESISTOR	47		1W
R79			RD14BB2E2R2J	RES. CARBON	2.2	5%	1/4W
R80			RD14BB2E2R2J	RES. CARBON	2.2	5%	1/4W
R81			RD14BB2C101J	RES. METAL FILM	100	5%	1/6W
R84		-	RD14BB2C132J	RES. CARBON	1.3K	5%	1/6W
R85			R92-2724-05	RESISTOR	390		2W
R86			R92-2724-05	RESISTOR	390		2W
R87			R92-2724-05	RESISTOR	390		2W
R88			R92-2724-05	RESISTOR	390		2W

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R89			R92-2724-05	RESISTOR	390		2W
R90			R92-2724-05	RESISTOR	390		2W
R91			R92-2724-05	RESISTOR	390		2W
R92			R92-2724-05	RESISTOR	390		2W
R93			RD14BB2C241J	RES. CARBON	240	5%	1/6W
R95			RD14BB2C241J	RES. CARBON	240	5%	1/6W
R97			RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R98			RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R100			RD14BB2C622J	RES. CARBON	6.2K	5%	1/6W
R101			RD14BB2C622J	RES. CARBON	6.2K	5%	1/6W
R102			RD14BB2C203J	RES. CARBON	20K	5%	1/6W
R103			RD14BB2C203J	RES. CARBON	20K	5%	1/6W
R104			RD14BB2C243J	RES. CARBON	24K	5%	1/6W
R105			RD14BB2C912J	RES. CARBON	9.1K	5%	1/6W
R201	-		R92-0173-05	RESISTOR	2.2M	20%	1/2W
R203			RD14BB2C821J	RES. CARBON	820	5%	1/6W
R204			RD14BB2C821J	RES. CARBON	820	5%	1/6W
R205			RD14BB2C272J	RES. CARBON	2.7K	5%	1/6W
R207			RD14BB2C201J	RES. CARBON	200	5%	1/6W
R208			RD14BB2C470J	RES. CARBON	47	5%	1/6W
R209			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. METAL FILM	100	5%	1/6W
R213			RD14BB2E223J	RES. CARBON	22K	5%	1/4W
R214			RD14BB2E223J	RES. CARBON	22K	5%	1/4W
R215			RD14BB2C100J	RES. METAL FILM	10	5%	1/6W
R216			RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R217			RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
R218			RD14BB2C241J	RES. CARBON	240	5%	1/6W
R219			RD14BB2C161J	RES. CARBON	160	5%	1/6W
TC1			C05-0470-05	CAP. TRIMMER	20P		
TC62			C05-0473-05	CAP. TRIMMER	120P		
TH1			112-103-2FM	THERMISTOR			
TH15			RX14C102C131J	RES. TEMP. COEFFICIENT	130	5%	1/6W
TH16			RX14C102C131J	RES. TEMP. COEFFICIENT	130	5%	1/6W
VR1			R12-1857-05	RES. SEMI FIXED	1K		
VR2			R12-0679-05	RES. SEMI FIXED	22K		
VR3			R12-1860-05	RES. SEMI FIXED	1K		
VR4			R12-0679-05	RES. SEMI FIXED	22K		
VR5			R12-0885-05	RES. SEMI FIXED	100B		

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# LS 8105A/LS 8106A

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Ref. No	8105A	8106A	Parts No.	Name & Description			
VERTICAL UNIT LS 8105A (X73-2240-03)/LS 8106A (X73-2240-02)							
			212-2401-06	INSULATOR TUBE			
			A22-1327-13	SUB PANEL			
			A22-1328-13	SUB PANEL			
			E21-0804-05	TERMINAL			
			F01-2318-04	HEAT SINK			
			F10-2524-04	SHIELD PLATE			
			F10-2538-04	SHIELD PLATE			
			J30-0623-04	SPACER			
			J73-0548-32	PCB (UNMOUNTED)			
			N09-0757-05	SCREW, SEMS TAPTITE			
			N89-3008-41	SCREW, BINDING TAPTITE (3*8)			
C2			CC73FCH1H331J	CAP. CHIP (2*1.25)	330p	5%	50V
C3			CC73FCH1H331J	CAP. CHIP (2*1.25)	330p	5%	50V
C4			CC73FCH1H331J	CAP. CHIP (2*1.25)	330p	5%	50V
C52			CE04LW1A101M	CAP. ELECTRO	100u	-20/80%	10V
C53			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C54			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C55			CE04LW1C470M	CAP. ELECTRO	47u	-20/80%	16V
C56			CE04LW1C101M	CAP. ELECTRO	100u	-20/80%	16V
C57			CK73FF1E104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C58			CK73FF1E104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C59			CE04LW1A101M	CAP. ELECTRO	100u	-20/80%	10V
C91			CK73FF1E104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C92			CK73FF1E104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C93			CK73FF1E104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C94			CK73FF1E104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C101			C91-2674-05	CAP. FILM	0.047u	10%	630V
C102			CC73FCH1H270J	CAP. CHIP (2*1.25)	27p	5%	50V
C103			CC73FCH1H270J	CAP. CHIP (2*1.25)	27p	5%	50V
C104			C91-2579-05	CAP. FILM	0.01u	10%	400V
C105			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C106			CC73FCH1H020C	CAP. CHIP (2*1.25)	2p	0.25%	50V
C107			CC73FCH1H181J	CAP. CHIP (2*1.25)	180p	5%	50V
C109			CC45FCH1H150J	CAP. CERAMIC	15p	5%	50V
C110			CC73FCH1H010C	CAP. CHIP (2*1.25)	1p	0.25%	50V
C111			CC73FCH1H220J	CAP. CHIP (2*1.25)	22p	5%	50V
C112			CK73FB1H682K	CAP. CHIP (2*1.25)	6800p	10%	50V
C113			CC73FSL1H471J	CAP. CHIP (2*1.25)	470p	5%	50V
C114			CC73FSL1H471J	CAP. CHIP (2*1.25)	470p	5%	50V
C115			CK73FB1H393K	CAP. CHIP (2*1.25)	0.039u	10%	50V
C116			CC73FCH1H030C	CAP. CHIP (2*1.25)	3p	0.25%	50V
C117			CE04HW1C220M	CAP. ELECTRO	22u	-20/80%	16V
C118			CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V
C119			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C120			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C121			CC45FCH1H180J	CAP. CERAMIC	18p	5%	50V
C124			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C125			CC73FCH1H050C	CAP. CHIP (2*1.25)	5p	0.25%	50V
C151			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C152			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C153			CE04LW1A101M	CAP. ELECTRO	100u	-20/80%	10V

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C154			CE04LW1C101M	CAP. ELECTRO	100u	-20/80%	16V
C155			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C156			CE04LW1C470M	CAP. ELECTRO	47u	-20/80%	16V
C157			CE04LW1C470M	CAP. ELECTRO	47u	-20/80%	16V
C158			CK73FB1H472K	CAP. CHIP (2*1.25)	4700p	10%	50V
C159			CE04LW1C330M	CAP. ELECTRO	33u	-20/80%	16V
C160			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C162			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C163			CE04LW1C330M	CAP. ELECTRO	33u	-20/80%	16V
C164			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C165			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C166			CK73FF1E104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C167			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C168			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C169			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C170			CK45FB2H472K	CAP. CERAMIC	4700p	10%	50V
C171			CK73FF1E104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C172			CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V
C173			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C174			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C175			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C176			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C177			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C201			C91-2674-05	CAP. FILM	0.047u	10%	630V
C202			CC73FCH1H270J	CAP. CHIP (2*1.25)	27p	5%	50V
C203			CC73FCH1H270J	CAP. CHIP (2*1.25)	27p	5%	50V
C204			C91-2579-05	CAP. FILM	0.01u	10%	400V
C205			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C206			CC73FCH1H020C	CAP. CHIP (2*1.25)	2p	0.25%	50V
C207			CC73FCH1H181J	CAP. CHIP (2*1.25)	180p	5%	50V
C209			CC45FCH1H150J	CAP. CERAMIC	15p	5%	50V
C210			CC73FCH1H020C	CAP. CHIP (2*1.25)	2p	0.25%	50V
C211			CC73FCH1H220J	CAP. CHIP (2*1.25)	22p	5%	50V
C212			CK73FB1H682K	CAP. CHIP (2*1.25)	6800p	10%	50V
C213			CC73FSL1H471J	CAP. CHIP (2*1.25)	470p	5%	50V
C214			CC73FSL1H471J	CAP. CHIP (2*1.25)	470p	5%	50V
C215			CK73FB1H393K	CAP. CHIP (2*1.25)	0.039u	10%	50V
C216			CC73FCH1H030C	CAP. CHIP (2*1.25)	3p	0.25%	50V
C219			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C220			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C224			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C225			CC73FCH1H050C	CAP. CHIP (2*1.25)	5p	0.25%	50V
C251			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C252			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C253			CE04LW1A101M	CAP. ELECTRO	100u	-20/80%	10V
C254			CE04LW1C101M	CAP. ELECTRO	100u	-20/80%	16V
C255			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C256			CE04LW1C470M	CAP. ELECTRO	47u	-20/80%	16V
C257			CE04LW1C470M	CAP. ELECTRO	47u	-20/80%	16V
C258			CK73FB1H472K	CAP. CHIP (2*1.25)	4700p	10%	50V
C259			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C260			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C262			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C263			CE04LW1C330M	CAP. ELECTRO	33u	-20/80%	16V
C264			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V

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PARTS LIST


LS 8105A/LS 8106A



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Ref. No	8105A	8106A	Parts No.	Name & Description			
C265			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C266			CK73FF1E104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C267			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C268			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C269			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C270			CK45FB2H472K	CAP. CERAMIC	4700p	10%	50V
C271			CK73FF1E104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C272			CK73FF1E104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	25V
C274			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C275			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C276			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C277			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C300			CC45FCH2H100D	CAP. CERAMIC	10p	0.5%	500V
C301		-	CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C302			CC45FCH2H100D	CAP. CERAMIC	10p	0.5%	500V
C303			C91-2579-05	CAP. FILM	001u	10%	400V
C304			CC73FCH1H330J	CAP. CHIP (2*1.25)	33p	5%	50V
C305			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C306			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C307			CC73FCH1H150J	CAP. CHIP (2*1.25)	15p	5%	50V
C311			CC73FCH1H040C	CAP. CHIP (2*1.25)	4p	0.25%	50V
C313		-	CC73FCH1H050C	CAP. CHIP (2*1.25)	5p	0.25%	50V
C314			CC73FCH1H100D	CAP. CHIP (2*1.25)	10p	0.5%	50V
C315		-	CC73FCH1H080D	CAP. CHIP (2*1.25)	8p	0.5%	50V
C315		-	CC73FCH1H070D	CAP. CHIP (2*1.25)	7p	0.5%	50V
C351			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C352			CE04LW1E470M	CAP. ELECTRO	47u	-20/80%	25V
C353			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C354			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C355			CE04LW1A101M	CAP. ELECTRO	100u	-20/80%	10V
C356			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C357			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C358			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C359			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C360			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C368			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C369			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C370			CK45FB2H472K	CAP. CERAMIC	4700p	10%	50V
C400			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C552			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C556			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C602			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C604			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C803			CK45FB1H102K	CAP. CERAMIC	1000p	10%	50V
C804			CK45FB1H102K	CAP. CERAMIC	1000p	10%	50V
CN4			E40-7515-05	PIN CONNECTOR	3P		
CN13			E40-7515-05	PIN CONNECTOR	3P		
CN26	-		E40-7579-05	PIN CONNECTOR	27P		
CN30		-	E40-5067-05	PIN CONNECTOR	10P		
CN30	-		E40-3242-05	PIN CONNECTOR	7P		
D1			DAP202K	DIODE			
D2			1SS272	DIODE			
D3			1SS272	DIODE			
D4			1SS272	DIODE			
D5			MA111	DIODE			

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Ref. No	8105A	8106A	Parts No.	Name & Description	
D51			DAP202K	DIODE	
D52			1SS272	DIODE	
D53			1SS272	DIODE	
D54			1SS272	DIODE	
D55			MA111	DIODE	
D101			UDZ6.8B	ZENER DIODE	
D102			1SS272	DIODE	
D103			1SS272	DIODE	
D104			DAP202K	DIODE	
D201			UDZ6.8B	ZENER DIODE	
D202			1SS272	DIODE	
D203			1SS272	DIODE	
D204			DAP202K	DIODE	
D301			UDZ6.8B	ZENER DIODE	
D302			MA111	DIODE	
D303			1SS272	DIODE	
D304			1SS272	DIODE	
D306			DAP202K	DIODE	
D351	-		MA111	DIODE	
D371			MA111	DIODE	
D372			MA111	DIODE	
IC1			HD14052BFP	IC, DUAL 4-CH ANALOG MPX/DE-MPX	
IC2			NJM4558V	IC, DUAL OP AMP	
IC4			7032LC44-NAO	IC, PRODROMED ROM	
IC51			HD14052BFP	IC, DUAL 4-CH ANALOG MPX/DE-MPX	
IC52			NJM4558V	IC, DUAL OP AMP	
IC101			LT1097S8	IC, PRECISION OP AMP	
IC102			KMX01	HIC	
IC103			KMX05	HIC	
IC104			HFA3102B	IC, LINER	
IC201			LT1097S8	IC, PRECISION OP AMP	
IC202			KMX01	HIC	
IC203			KMX05	HIC	
IC204			HFA3102B	IC, LINER	
IC401	-		NJM2902V	IC, CONVERTER	
IC501	-	-	HD74HC595FP	IC, 8-BIT SHIFT REGISTOR/LATCH (3-STATE)	
IC502	-	-	HD74HC595FP	IC, 8-BIT SHIFT REGISTOR/LATCH (3-STATE)	
J1		-	E04-0260-05	COAXIAL CONNECTOR	
J1	-		E04-0259-15	COAXIAL CONNECTOR	
J2		-	E04-0260-05	COAXIAL CONNECTOR	
J2	-		E04-0259-15	COAXIAL CONNECTOR	
J3			E04-0259-15	COAXIAL CONNECTOR	
K1			S76-0645-05	RELAY	
K2			S76-0645-05	RELAY	
K4			S76-0645-05	RELAY	
K51			S76-0645-05	RELAY	
K52			S76-0645-05	RELAY	
K53			S76-0645-05	RELAY	
K54			S76-0645-05	RELAY	
K351	-		S76-0645-05	RELAY	
P2			E23-1520-05	EARTH TERMINAL	
P6			E23-1520-05	EARTH TERMINAL	
Q1			DTA114YKA	TR.	

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Q2			DTA114YKA	TR.
Q3			DTA114YKA	TR.
Q4			2SC27148O	TR. SI, NPN
Q6			DTA114YKA	TR.
Q8			2SC2412K(R)	TR. SI, NPN
Q9			2SC2412K(R)	TR. SI, NPN
Q51			DTA114YKA	TR.
Q52			DTA114YKA	TR.
Q53			DTA114YKA	TR.
Q54			2SC27148O	TR. SI, NPN
Q56			DTA114YKA	TR.
Q57			2SC2412K(R)	TR. SI, NPN
Q58			2SC2412K(R)	TR. SI, NPN
Q59			2SC2412K(R)	TR. SI, NPN
Q101			2SK508(K51)	FET
Q102			2SC27148O	TR. SI, NPN
Q103			2SA1738(Q,R)	TR. SI, PNP
Q104			2SC3775(3)	TR. SI, NPN
Q105			3SK184(S)	FET
Q106			3SK184(S)	FET
Q107			3SK184(S)	FET
Q108			3SK184(S)	FET
Q109			3SK184(S)	FET
Q110			2SC2735	TR. SI, NPN
Q111			3SK184(S)	FET
Q112			3SK184(S)	FET
Q113			IMX5	TR.
Q114			2SC3775(3)	TR. SI, NPN
Q115			2SC3775(3)	TR. SI, NPN
Q116			2SA1738(Q,R)	TR. SI, PNP
Q117			2SA1738(Q,R)	TR. SI, PNP
Q118			2SA1738(Q,R)	TR. SI, PNP
Q119			2SA1738(Q,R)	TR. SI, PNP
Q120			2SA1738(Q,R)	TR. SI, PNP
Q121			2SA1738(Q,R)	TR. SI, PNP
Q122			2SA1738(Q,R)	TR. SI, PNP
Q123			2SC2735	TR. SI, NPN
Q124			3SK184(S)	FET
Q126			2SA1738(Q,R)	TR. SI, PNP
Q127			2SA1738(Q,R)	TR. SI, PNP
Q201			2SK508(K51)	FET
Q202			2SC27148(O)	TR. SI, NPN
Q203			2SA1738(Q,R)	TR. SI, PNP
Q204			2SC3775(3)	TR. SI, NPN
Q205			3SK184(S)	FET
Q206			3SK184(S)	FET
Q207			3SK184(S)	FET
Q208			3SK184(S)	FET
Q209			3SK184(S)	FET
Q210			2SC2735	TR. SI, NPN
Q211			3SK184(S)	FET
Q212			3SK184(S)	FET
Q213			IMX5	FET
Q214			2SC3775(3)	TR. SI, NPN
Q215			2SC3775(3)	TR. SI, NPN

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Ref. No	8105A	8106A	Parts No.	Name & Description
Q216			2SA1738(Q,R)	TR. SI, PNP
Q217			2SA1738(Q,R)	TR. SI, PNP
Q218			2SA1738(Q,R)	TR. SI, PNP
Q219			2SA1738(Q,R)	TR. SI, PNP
Q220			2SA1738(Q,R)	TR. SI, PNP
Q221			2SA1738(Q,R)	TR. SI, PNP
Q222			2SA1738(Q,R)	TR. SI, PNP
Q224			3SK184(S)	FET
Q226			2SA1738(Q,R)	TR. SI, PNP
Q227			2SA1738(Q,R)	TR. SI, PNP
Q301			2SK508(K52)	FET
Q302			2SC2735	TR. SI, NPN
Q303			2SA1738(Q,R)	TR. SI, PNP
Q304			2SA1738(Q,R)	TR. SI, PNP
Q305			2SC27148(O)	TR. SI, NPN
Q306			2SC2735	TR. SI, NPN
Q307			2SC2735	TR. SI, NPN
Q308			2SC2735	TR. SI, NPN
Q309			2SA1738(Q,R)	TR. SI, PNP
Q310			2SA1738(Q,R)	TR. SI, PNP
Q311			2SA1738(Q,R)	TR. SI, PNP
Q312			2SC2735	TR. SI, NPN
Q313			2SA1738(Q,R)	TR. SI, PNP
Q351			DTA114YKA	TRANSISTOR
Q371			2SC3779(D)	TR. SI, NPN
Q372			2SC2412K(R)	TR. SI, NPN
Q373			2SC2412K(R)	TR. SI, NPN
Q374			2SC3779(D)	TR. SI, NPN
Q551			2SA1738(Q,R)	TR. SI, PNP
Q552			2SA1738(Q,R)	TR. SI, PNP
Q553			2SC3775(3)	TR. SI, NPN
Q554			2SC3775(3)	TR. SI, NPN
Q561			2SA1738(Q,R)	TR. SI, PNP
Q562			2SA1738(Q,R)	TR. SI, PNP
Q563			2SC3775(3)	TR. SI, NPN
Q564			2SC3775(3)	TR. SI, NPN
R1			RK73FB2A103J	RES. CHIP (2*1.25) 10K 5% 1/10W
R2			RK73FB2A103J	RES. CHIP (2*1.25) 10K 5% 1/10W
R4			RK73FB2A104J	RES. CHIP (2*1.25) 100K 5% 1/10W
R5			RK73FB2A513J	RES. CHIP (2*1.25) 51K 5% 1/10W
R6			RK73FB2A513J	RES. CHIP (2*1.25) 51K 5% 1/10W
R7			RK73FB2A513J	RES. CHIP (2*1.25) 51K 5% 1/10W
R8			RK73FB2A513J	RES. CHIP (2*1.25) 51K 5% 1/10W
R9			RK73FB2A753J	RES. CHIP (2*1.25) 75K 5% 1/10W
R10			RK73FB2A753J	RES. CHIP (2*1.25) 75K 5% 1/10W
R11			RK73FB2A753J	RES. CHIP (2*1.25) 75K 5% 1/10W
R12			RK73FB2A753J	RES. CHIP (2*1.25) 75K 5% 1/10W
R13			RK73FB2A753J	RES. CHIP (2*1.25) 75K 5% 1/10W
R15			RK73FB2A103J	RES. CHIP (2*1.25) 10K 5% 1/10W
R16			RK73FB2A332J	RES. CHIP (2*1.25) 3.3K 5% 1/10W
R18			RK73FB2A103J	RES. CHIP (2*1.25) 10K 5% 1/10W
R19			RK73FB2A331J	RES. CHIP (2*1.25) 330 5% 1/10W
R21			RK73FB2A471J	RES. CHIP (2*1.25) 470 5% 1/10W
R22			RK73FB2A471J	RES. CHIP (2*1.25) 470 5% 1/10W
R23			RK73FB2A512J	RES. CHIP (2*1.25) 5.1K 5% 1/10W

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LS 8105A/LS 8106A  
PARTS LIST

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R24			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R25			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R26			RK73FB2A163J	RES. CHIP (2*1.25)	16K	5%	1/10W
R27			RK73FB2A273J	RES. CHIP (2*1.25)	27K	5%	1/10W
R28			RK73FB2A273J	RES. CHIP (2*1.25)	27K	5%	1/10W
R29			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R30			RK73FB2A393J	RES. CHIP (2*1.25)	39K	5%	1/10W
R31			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R32			RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5%	1/10W
R33			RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5%	1/10W
R34			RK73FB2A563J	RES. CHIP (2*1.25)	56K	5.0%	1/10W
R36			RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R37	-		RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R38	-		RN73FH2A163D	RES. CHIP (2*1.25)	16K	0.5%	1/10W
R39	-		RN73FH2A512D	RES. CHIP (2*1.25)	5.1K	0.5%	1/10W
R40	-		RN73FH2A512D	RES. CHIP (2*1.25)	5.1K	0.5%	1/10W
R41	-		RN73FH2A512D	RES. CHIP (2*1.25)	5.1K	0.5%	1/10W
R42	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R43			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R44			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R45			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R46			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R47			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R48			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R51			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R52			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R54			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R55			RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W
R56			RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W
R57			RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W
R58			RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W
R59			RK73FB2A753J	RES. CHIP (2*1.25)	75K	5%	1/10W
R60			RK73FB2A753J	RES. CHIP (2*1.25)	75K	5%	1/10W
R61			RK73FB2A753J	RES. CHIP (2*1.25)	75K	5%	1/10W
R62			RK73FB2A753J	RES. CHIP (2*1.25)	75K	5%	1/10W
R63			RK73FB2A753J	RES. CHIP (2*1.25)	75K	5%	1/10W
R64	-	-	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R64	-	-	RK73FB2A361J	RES. CHIP (2*1.25)	360	5%	1/10W
R65	-	-	RK73FB2A753J	RES. CHIP (2*1.25)	75K	5%	1/10W
R65	-	-	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R66	-	-	RK73FB2A562J	RES. CHIP (2*1.25)	5.6K	5%	1/10W
R66	-	-	RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R67			RK73FB2A473J	RES. CHIP (2*1.25)	47K	5%	1/10W
R68			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R69			RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R70			RK73FB2A331J	RES. CHIP (2*1.25)	330	5%	1/10W
R71			RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R72			RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R73			RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R74			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R75			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R76			RK73FB2A163J	RES. CHIP (2*1.25)	16K	5%	1/10W
R77			RK73FB2A273J	RES. CHIP (2*1.25)	27K	5%	1/10W
R78			RK73FB2A273J	RES. CHIP (2*1.25)	27K	5%	1/10W
R79			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R80			RK73FB2A393J	RES. CHIP (2*1.25)	39K	5%	1/10W
R81			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R82			RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5%	1/10W
R83			RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5%	1/10W
R84			RK73FB2A563J	RES. CHIP (2*1.25)	56K	5.0%	1/10W
R86			RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R87			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R88			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R89			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R90			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R91			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R92			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R93			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R94			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R95			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R97			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R98			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R100			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R101			RD14BB2E105J	RES. CARBON	1M	5%	1/4W
R102			RN73FH2A912D	RES. CHIP (2*1.25)	9.1K	0.5%	1/10W
R103			RN14BK2E9003D	RES. METAL FILM	900K	0.5%	1/4W
R104			RN73FH2A513B	RES. CHIP (2*1.25)	51K	0.1%	1/10W
R105			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R106			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R107			RN73FH2A240D	RES. CHIP (2*1.25)	24	0.5%	1/10W
R108			RK73FB2A121J	RES. CHIP (2*1.25)	120	5%	1/10W
R109			RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R110			RN14BK2E9003D	RES. METAL FILM	900K	0.5%	1/4W
R111			RN73FH2A513B	RES. CHIP (2*1.25)	51K	0.1%	1/10W
R112			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R113			RN73FH2A912D	RES. CHIP (2*1.25)	9.1K	0.5%	1/10W
R114			RN73FH2A820D	RES. CHIP (2*1.25)	82	0.5%	1/10W
R115			RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W
R116			RD14BB2E105J	RES. CARBON	1M	5%	1/4W
R117			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R118			RN73FH2A121D	RES. CHIP (2*1.25)	120	0.5%	1/10W
R119			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R120			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R121			RK73FB2A821J	RES. CHIP (2*1.25)	820	5%	1/10W
R122			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R123			RK73FB2A682J	RES. CHIP (2*1.25)	6.8K	5%	1/10W
R124			RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W
R125			RK73FB2A201J	RES. CHIP (2*1.25)	200	5%	1/10W
R126			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R127			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R128			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R129			RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5%	1/10W
R131			RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5%	1/10W
R132			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R133			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R134			RN73FH2A271D	RES. CHIP (2*1.25)	270	0.5%	1/10W
R135			RN73FH2A132D	RES. CHIP (2*1.25)	1.3K	0.5%	1/10W
R136			RN73FH2A132D	RES. CHIP (2*1.25)	1.3K	0.5%	1/10W
R138			RK73FB2A240J	RES. CHIP (2*1.25)	24	5%	1/10W
R139			RK73FB2A390J	RES. CHIP (2*1.25)	39	5%	1/10W

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Y : AAFES(Europe)  
K : USA  
T : England  
X : Australia  
P : Canada  
E : Europe  
M : Other Areas  
R : Mexico  
G : Germany  
⚠ indicates safety critical components .

PARTS LIST

LS 8105A/LS 8106A

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Teile ohne **Parts No.** werden nicht geliefert.

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R140			RN73FH2A242D	RES. CHIP (2*1.25)	2.4K	0.5%	1/10W
R141			RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5%	1/10W
R142			RN73FH2A511D	RES. CHIP (2*1.25)	510	0.5%	1/10W
R143			RN73FH2A364D	RES. CHIP (2*1.25)	360K	0.5%	1/10W
R144			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R145			RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5%	1/10W
R146			RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5%	1/10W
R147			RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5%	1/10W
R148			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R149			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R150			RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5%	1/10W
R151			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5%	1/10W
R152			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5%	1/10W
R153			RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5%	1/10W
R154			RN73FH2A132D	RES. CHIP (2*1.25)	1.3K	0.5%	1/10W
R155			RN73FH2A132D	RES. CHIP (2*1.25)	1.3K	0.5%	1/10W
R156			RN73FH2A182D	RES. CHIP (2*1.25)	1.8K	0.5%	1/10W
R157			RK73FB2A132J	RES. CHIP (2*1.25)	1.3K	5%	1/10W
R158			RK73FB2A132J	RES. CHIP (2*1.25)	1.3K	5%	1/10W
R159			RK73FB2A182J	RES. CHIP (2*1.25)	1.8K	5%	1/10W
R160			RK73FB2A182J	RES. CHIP (2*1.25)	1.8K	5%	1/10W
R161			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R162			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R163			RN73FH2A513B	RES. CHIP (2*1.25)	51K	0.1%	1/10W
R164			RN73FH2A513B	RES. CHIP (2*1.25)	51K	0.1%	1/10W
R165			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R166			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R167			RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5%	1/10W
R168			RK73FB2A303J	RES. CHIP (2*1.25)	30K	5%	1/10W
R169			RK73FB2A511J	RES. CHIP (2*1.25)	510	5%	1/10W
R170			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R171			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R172			RK73FB2A752J	RES. CHIP (2*1.25)	7.5K	5%	1/10W
R173			RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R176			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R177			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R178			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R179			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R180			RK73FB2A123J	RES. CHIP (2*1.25)	12K	5%	1/10W
R181			RK73FB2A201J	RES. CHIP (2*1.25)	200	5%	1/10W
R182			RK73FB2A622J	RES. CHIP (2*1.25)	6.2K	5%	1/10W
R183			RK73FB2A362J	RES. CHIP (2*1.25)	3.6K	5%	1/10W
R184			RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R185			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R186			RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R187			RK73FB2A822J	RES. CHIP (2*1.25)	8.2K	5%	1/10W
R188			RK73FB2A201J	RES. CHIP (2*1.25)	200	5%	1/10W
R189			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R190			RK73FB2A133J	RES. CHIP (2*1.25)	13K	5%	1/10W
R191			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R193			RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W
R195			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R196			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R198			RK73FB2A822J	RES. CHIP (2*1.25)	8.2K	5%	1/10W
R200			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W

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**Y** : PX(Far East,Hawaii)      **T** : England      **E** : Europe      **G** : Germany  
**Y** : AAFES(Europe)      **X** : Australia      **M** : Other Areas       indicates safety critical components .

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R201			RD14BB2E105J	RES. CARBON	1M	5%	1/4W
R202			RN73FH2A912D	RES. CHIP (2*1.25)	9.1K	0.5%	1/10W
R203			RN14BK2E9003D	RES. METAL FILM	900K	0.5%	1/4W
R204			RN73FH2A513B	RES. CHIP (2*1.25)	51K	0.1%	1/10W
R205			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R206			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R207			RN73FH2A240D	RES. CHIP (2*1.25)	24	0.5%	1/10W
R208			RK73FB2A121J	RES. CHIP (2*1.25)	120	5%	1/10W
R209			RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R210			RN14BK2E9003D	RES. METAL FILM	900K	0.5%	1/4W
R211			RN73FH2A513B	RES. CHIP (2*1.25)	51K	0.1%	1/10W
R212			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R213			RN73FH2A912D	RES. CHIP (2*1.25)	9.1K	0.5%	1/10W
R214			RN73FH2A820D	RES. CHIP (2*1.25)	82	0.5%	1/10W
R215			RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W
R216			RD14BB2E105J	RES. CARBON	1M	5%	1/4W
R217			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R218			RN73FH2A121D	RES. CHIP (2*1.25)	120	0.5%	1/10W
R219			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R220			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R221			RK73FB2A821J	RES. CHIP (2*1.25)	820	5%	1/10W
R222			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R223			RK73FB2A682J	RES. CHIP (2*1.25)	6.8K	5%	1/10W
R224			RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W
R225			RK73FB2A201J	RES. CHIP (2*1.25)	200	5%	1/10W
R226			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R227			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R228			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R229			RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5%	1/10W
R231			RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5%	1/10W
R232			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R233			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R234			RN73FH2A271D	RES. CHIP (2*1.25)	270	0.5%	1/10W
R235			RN73FH2A132D	RES. CHIP (2*1.25)	1.3K	0.5%	1/10W
R236			RN73FH2A132D	RES. CHIP (2*1.25)	1.3K	0.5%	1/10W
R237			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R238			RK73FB2A240J	RES. CHIP (2*1.25)	24	5%	1/10W
R239			RK73FB2A390J	RES. CHIP (2*1.25)	39	5%	1/10W
R240			RN73FH2A242D	RES. CHIP (2*1.25)	2.4K	0.5%	1/10W
R241			RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5%	1/10W
R242			RN73FH2A511D	RES. CHIP (2*1.25)	510	0.5%	1/10W
R243			RN73FH2A364D	RES. CHIP (2*1.25)	360K	0.5%	1/10W
R244			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R245			RN73FH2A101D	RES. CHIP (2*1.25)	100	0.5%	1/10W
R246			RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5%	1/10W
R247			RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5%	1/10W
R248			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R249			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R250			RN73FH2A472D	RES. CHIP (2*1.25)	4.7K	0.5%	1/10W
R251			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5%	1/10W
R252			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5%	1/10W
R253			RN73FH2A470D	RES. CHIP (2*1.25)	47	0.5%	1/10W
R254			RN73FH2A132D	RES. CHIP (2*1.25)	1.3K	0.5%	1/10W
R255			RN73FH2A132D	RES. CHIP (2*1.25)	1.3K	0.5%	1/10W
R256			RN73FH2A182D	RES. CHIP (2*1.25)	1.8K	0.5%	1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R257			RK73FB2A132J	RES. CHIP (2*1.25)	1.3K	5%	1/10W
R258			RK73FB2A132J	RES. CHIP (2*1.25)	1.3K	5%	1/10W
R259			RK73FB2A182J	RES. CHIP (2*1.25)	1.8K	5%	1/10W
R260			RK73FB2A182J	RES. CHIP (2*1.25)	1.8K	5%	1/10W
R261			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R262			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R263			RN73FH2A513B	RES. CHIP (2*1.25)	51K	0.1%	1/10W
R264			RN73FH2A513B	RES. CHIP (2*1.25)	51K	0.1%	1/10W
R265			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R266			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R267			RN73FH2A751D	RES. CHIP (2*1.25)	750	0.5%	1/10W
R268			RK73FB2A303J	RES. CHIP (2*1.25)	30K	5%	1/10W
R269			RK73FB2A301J	RES. CHIP (2*1.25)	300	5%	1/10W
R270			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R271			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R272			RK73FB2A752J	RES. CHIP (2*1.25)	7.5K	5%	1/10W
R273			RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R276			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R277			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R278			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R279			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R280			RK73FB2A123J	RES. CHIP (2*1.25)	12K	5%	1/10W
R281			RK73FB2A201J	RES. CHIP (2*1.25)	200	5%	1/10W
R282			RK73FB2A622J	RES. CHIP (2*1.25)	6.2K	5%	1/10W
R283			RK73FB2A362J	RES. CHIP (2*1.25)	3.6K	5%	1/10W
R284			RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R285			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R286			RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R291			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R293			RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W
R295			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R296			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R301		-	RN14BK2E9423D	RES. METAL FILM	942K	0.5%	1/4W
R302		-	RN14BK2C6262D	RES. METAL FILM	62.2K	0.5%	1/6W
R303		-	RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R304		-	RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R305		-	RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R306		-	RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R307			RN14BK2E7063D	RES. METAL FILM	706K	0.5%	1/4W
R308			RN14BK2C4173D	RES. METAL FILM	417K	0.5%	1/6W
R309			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R310			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R311			RK73FB2A510J	RES. CHIP (2*1.25)	51	5%	1/10W
R312			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R313			RN14BK2E1004F	RES. METAL FILM	1M	0.5%	1/4W
R314			RD14BB2E105J	RES. CARBON	1M	5%	1/4W
R315			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R316			RK73FB2A132J	RES. CHIP (2*1.25)	1.3K	5%	1/10W
R317			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5%	1/10W
R318			RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R319			RK73FB2A362J	RES. CHIP (2*1.25)	3.6K	5%	1/10W
R320			RK73FB2A362J	RES. CHIP (2*1.25)	3.6K	5%	1/10W
R321			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R322			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R323			RK73FB2A681J	RES. CHIP (2*1.25)	680	5%	1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R324			RK73FB2A133J	RES. CHIP (2*1.25)	13K	5%	1/10W
R325			RK73FB2A112J	RES. CHIP (2*1.25)	1.1K	5%	1/10W
R326			RK73FB2A112J	RES. CHIP (2*1.25)	1.1K	5%	1/10W
R327			RK73FB2A911J	RES. CHIP (2*1.25)	910	5%	1/10W
R328			RK73FB2A151J	RES. CHIP (2*1.25)	150	5%	1/10W
R329			RN73FH2A332D	RES. CHIP (2*1.25)	3.3K	0.5%	1/10W
R330			RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5%	1/10W
R331			RN73FH2A431D	RES. CHIP (2*1.25)	430	0.5%	1/10W
R332			RN73FH2A821D	RES. CHIP (2*1.25)	820	0.5%	1/10W
R333			RN73FH2A821D	RES. CHIP (2*1.25)	820	0.5%	1/10W
R334			RK73FB2A273J	RES. CHIP (2*1.25)	27K	5%	1/10W
R335			RK73FB2A243J	RES. CHIP (2*1.25)	24K	5%	1/10W
R336			RK73FB2A151J	RES. CHIP (2*1.25)	150	5%	1/10W
R337			RK73FB2A151J	RES. CHIP (2*1.25)	150	5%	1/10W
R338			RK73FB2A362J	RES. CHIP (2*1.25)	3.6K	5%	1/10W
R339			RK73FB2A682J	RES. CHIP (2*1.25)	6.8K	5%	1/10W
R340			RK73FB2A362J	RES. CHIP (2*1.25)	3.6K	5%	1/10W
R341			RK73FB2A682J	RES. CHIP (2*1.25)	6.8K	5%	1/10W
R342			RK73FB2A362J	RES. CHIP (2*1.25)	3.6K	5%	1/10W
R343			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R344		-	RK73FB2A121J	RES. CHIP (2*1.25)	120	5%	1/10W
R345			RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R346			RK73FB2A562J	RES. CHIP (2*1.25)	5.6K	5%	1/10W
R347			RK73FB2A122J	RES. CHIP (2*1.25)	1.2K	5%	1/10W
R348			RK73FB2A821J	RES. CHIP (2*1.25)	820	5%	1/10W
R349			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R350			RK73FB2A112J	RES. CHIP (2*1.25)	1.1K	5%	1/10W
R351			RK73FB2A162J	RES. CHIP (2*1.25)	1.6K	5%	1/10W
R352			RK73FB2A620J	RES. CHIP (2*1.25)	62	5%	1/10W
R355			RK73FB2A820J	RES. CHIP (2*1.25)	82	5%	1/10W
R357			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R358			RK73FB2A821J	RES. CHIP (2*1.25)	820	5%	1/10W
R359			RK73FB2A473J	RES. CHIP (2*1.25)	47K	5%	1/10W
R360			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R361			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R362			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R363			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R364			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R366			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R367			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R368			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R369			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R371			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R372			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R373			RN73FH2A391D	RES. CHIP (2*1.25)	390	0.5%	1/10W
R374			RN73FH2A391D	RES. CHIP (2*1.25)	390	0.5%	1/10W
R375			RN73FH2A751D	RES. CHIP (2*1.25)	750	0.5%	1/10W
R376			RN73FH2A751D	RES. CHIP (2*1.25)	750	0.5%	1/10W
R377			R92-1553-05	RESISTOR	620	5%	1W
R378			RN73FH2A621D	RES. CHIP (2*1.25)	620	0.5%	1/10W
R379			RN73FH2A621D	RES. CHIP (2*1.25)	620	0.5%	1/10W
R380			RN73FH2A390D	RES. CHIP (2*1.25)	39	0.5%	1/10W
R381			RN73FH2A390D	RES. CHIP (2*1.25)	39	0.5%	1/10W
R382			RK73FB2A473J	RES. CHIP (2*1.25)	47K	5%	1/10W
R383			RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W

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PARTS LIST

LS 8105A/LS 8106A

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R384			RN73FH2A203D	RES. CHIP (2*1.25)	20K	0.5%	1/10W
R385			RN73FH2A683D	RES. CHIP (2*1.25)	68K	0.5%	1/10W
R386			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R387			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R388			RK73FB2A681J	RES. CHIP (2*1.25)	680	5%	1/10W
R389			RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R390			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R401	-		RK73FB2A391J	RES. CHIP (2*1.25)	390	5%	1/10W
R402	-		RK73FB2A473J	RES. CHIP (2*1.25)	47K	5%	1/10W
R403	-		RK73FB2A391J	RES. CHIP (2*1.25)	390	5%	1/10W
R404	-		RK73FB2A473J	RES. CHIP (2*1.25)	47K	5%	1/10W
R405			RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R408	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R451			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R452			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R455			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R456			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R501	-		RK73FB2A331J	RES. CHIP (2*1.25)	330	5%	1/10W
R502	-		RK73FB2A203J	RES. CHIP (2*1.25)	20K	5%	1/10W
R503	-		RK73FB2A331J	RES. CHIP (2*1.25)	330	5%	1/10W
R504	-		RK73FB2A203J	RES. CHIP (2*1.25)	20K	5%	1/10W
R506	-		RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R551			RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R552			RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R553			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R555			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R556			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R557			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R558			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R559			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5%	1/10W
R560			RN73FH2A113D	RES. CHIP (2*1.25)	11K	0.5%	1/10W
R561			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R562			RK73FB2A162J	RES. CHIP (2*1.25)	1.6K	5%	1/10W
R563			RK73FB2A162J	RES. CHIP (2*1.25)	1.6K	5%	1/10W
R581			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R582			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R602			RK73FB2A134J	RES. CHIP (2*1.25)	130K	5%	1/10W
R604			RK73FB2A134J	RES. CHIP (2*1.25)	130K	5%	1/10W
R610	-		R92-0670-05	RESISTOR	0		
R611	-		R92-0670-05	RESISTOR	0		
R620			R92-0670-05	RESISTOR	0		
R621			R92-0670-05	RESISTOR	0		
R651			RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R652			RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R653			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R655			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R656			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R657			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R658			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R659			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R660			RK73FB2A113J	RES. CHIP (2*1.25)	11K	5%	1/10W
R661			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R662			RK73FB2A162J	RES. CHIP (2*1.25)	1.6K	5%	1/10W
R663			RK73FB2A162J	RES. CHIP (2*1.25)	1.6K	5%	1/10W
R681			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R682			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R691			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R692			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R693			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R694			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R901			RD14BB2C220J	RES. CARBON	22	5%	1/6W
R902			RD14BB2C220J	RES. CARBON	22	5%	1/6W
R903			RD14BB2C220J	RES. CARBON	22	5%	1/6W
TC101			C05-0495-05	CAP. CERAMIC TRIMMER	6P		
TC102			C05-0496-05	CAP. CERAMIC TRIMMER	10P		
TC103			C05-0468-05	CAP. CERAMIC TRIMMER	7P		
TC106			C05-0469-05	CAP. CERAMIC TRIMMER	10P		
TC201			C05-0495-05	CAP. CERAMIC TRIMMER	6P		
TC202			C05-0496-05	CAP. CERAMIC TRIMMER	10P		
TC203			C05-0468-05	CAP. CERAMIC TRIMMER	7P		
TC205			C05-0303-05	CAP. CERAMIC TRIMMER	20P		
TC206			C05-0469-05	CAP. CERAMIC TRIMMER	10P		
TC301		-	C05-0468-05	CAP. CERAMIC TRIMMER	7P		
TC302		-	C05-0469-05	CAP. CERAMIC TRIMMER	10P		
TC303			C05-0468-05	CAP. CERAMIC TRIMMER	7P		
TC305			C05-0468-05	CAP. CERAMIC TRIMMER	7P		
TH101			112-102-2FM	THERMISTOR			
TH102			R92-1578-05	RES. TEMP. COEFFICIENT	3.9K	5%	
TH201			112-102-2FM	THERMISTOR			
TH202			R92-1578-05	RES. TEMP. COEFFICIENT	3.9K	5%	
TH302			RX73F302A152J	RES. TEMP. COEFFICIENT	1.5K	5%	
TH303			RX73F202A472J	RES. TEMP. COEFFICIENT	4.7K	5%	
VR101			R12-6717-05	RES. SEMI FIXED	47K		
VR102			R12-6701-05	RES. SEMI FIXED	100		
VR104			R12-6701-05	RES. SEMI FIXED	100		
VR106			R12-6709-05	RES. SEMI FIXED	2.2K		
VR107			R12-6715-05	RES. SEMI FIXED	22K		
VR201			R12-6717-05	RES. SEMI FIXED	47K		
VR202			R12-6701-05	RES. SEMI FIXED	100		
VR203			R12-6705-05	RES. SEMI FIXED	470		
VR204			R12-6701-05	RES. SEMI FIXED	100		
VR205			R12-6701-05	RES. SEMI FIXED	100		
VR206			R12-6709-05	RES. SEMI FIXED	2.2K		
VR207			R12-6715-05	RES. SEMI FIXED	22K		
VR208			R12-6703-05	RES. SEMI FIXED	220		
VR301			R12-6717-05	RES. SEMI FIXED	47K		
VR302			R12-6707-05	RES. SEMI FIXED	1K		
VR303			R12-6715-05	RES. SEMI FIXED	22K		
VR371			R12-6715-05	RES. SEMI FIXED	22K		
VR372			R12-6703-05	RES. SEMI FIXED	220		
VR501		-	R12-6701-05	RES. SEMI FIXED	100		
VR502		-	R12-6717-05	RES. SEMI FIXED	47K		
VR503		-	R12-6701-05	RES. SEMI FIXED	100		
VR504		-	R12-6717-05	RES. SEMI FIXED	47K		
W406	-		E31-2170-05	JUMPER WIRE			
W407	-		E31-2170-05	JUMPER WIRE			

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①

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HORIZONTAL UNIT							
LS 8105A (X74-1640-03)/LS 8106A (X74-1640-02)							
			J73-0728-02	PCB (UNMOUNTED)			
C1			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C2			CE04HW1H2R2M	CAP. ELECTRO	2.2u	20%	50V
C3			CE04HW1H2R2M	CAP. ELECTRO	2.2u	20%	50V
C5			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C6			CC73FCH1H010C	CAP. CHIP (2*1.25)	1p	0.25%	50V
C7			CE04HW1E220M	CAP. ELECTRO	22u	20%	25V
C8			CE04LW1E100M	CAP. ELECTRO	10u	20%	25V
C9			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C10			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C11			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C12			CE04LW1E100M	CAP. ELECTRO	10u	20%	25V
C13			CE04LW1C100M	CAP. ELECTRO	10u	20%	16V
C14			CC73FCH1H680J	CAP. CHIP (2*1.25)	68p	5%	50V
C15			CC73FCH1H020C	CAP. CHIP (2*1.25)	2p	0.25%	50V
C16			CE04LW1C331M	CAP. ELECTRO	330u	20%	16V
C17			CK73FB1H223K	CAP. CHIP (2*1.25)	0.022u	10%	50V
C18			CC73FCH1H221J	CAP. CHIP (2*1.25)	220p	5%	50V
C19			CE04LW1H010M	CAP. ELECTRO	1u	20%	50V
C20			CC73FCH1H220J	CAP. CHIP (2*1.25)	22p	5%	50V
C21			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C22			CE04LW1H010M	CAP. ELECTRO	1u	20%	50V
C24			CK73FB1H682K	CAP. CHIP (2*1.25)	6800p	10%	50V
C28			CE04LW0J331M	CAP. ELECTRO	330u	20%	6.3V
C29			CC73FCH1H040C	CAP. CHIP (2*1.25)	4p	0.25%	50V
C30			CE04LW1A101M	CAP. ELECTRO	100u	20%	10V
C31			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C32			CK73FB1H332K	CAP. CHIP (2*1.25)	3300p	10%	50V
C33			CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V
C34			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C35			CC73FCH1H010C	CAP. CHIP (2*1.25)	1p	0.25%	50V
C36			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C37			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C38			CK73FB1H223K	CAP. CHIP (2*1.25)	0.022u	10%	50V
C101			CC73FCH1H470J	CAP. CHIP (2*1.25)	47p	5%	50V
C102			CC73FCH1H470J	CAP. CHIP (2*1.25)	47p	5%	50V
C103			CC73FCH1H470J	CAP. CHIP (2*1.25)	47p	5%	50V
C104			CE04LW1A470M	CAP. ELECTRO	47u	20%	10V
C105			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C106			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C107			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C108			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C109			CK73FB1H332K	CAP. CHIP (2*1.25)	3300p	10%	50V
C110			CE04LW0J331M	CAP. ELECTRO	330u	20%	6.3V
C111			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C112			CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V
C113			CC73FCH1H221J	CAP. CHIP (2*1.25)	220p	5%	50V
C114			CC73FCH1H470J	CAP. CHIP (2*1.25)	47p	5%	50V
C115			CE04HW1H2R2M	CAP. ELECTRO	2.2u	20%	50V
C116			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C117			CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V

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②

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C118			CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V
C119			CE04LW1C470M	CAP. ELECTRO	47u	20%	16V
C120			CE04LW1C100M	CAP. ELECTRO	10u	20%	16V
C121			CE04LW0J331M	CAP. ELECTRO	330u	20%	6.3V
C122			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C123			CE04LW1C101M	CAP. ELECTRO	100u	20%	16V
C124			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C125			CC73FCH1H390J	CAP. CHIP (2*1.25)	39p	5%	50V
C126			C91-2582-05	CAP. FILM	0.47u	5%	100V
C127			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C128			CC73FCH1H390J	CAP. CHIP (2*1.25)	39p	5%	50V
C129			C91-2582-05	CAP. FILM	0.47u	5%	100V
C130			CE04LW1C101M	CAP. ELECTRO	100u	20%	16V
C131			CE04LW1C101M	CAP. ELECTRO	100u	20%	16V
C132			CC73FCH1H220J	CAP. CHIP (2*1.25)	22p	5%	50V
C133			CC73FCH1H220J	CAP. CHIP (2*1.25)	22p	5%	50V
C134			CC73FCH1H331J	CAP. CHIP (2*1.25)	330p	5%	50V
C135			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C136			CC73FCH1H391J	CAP. CHIP (2*1.25)	390p	5%	50V
C137			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C138			CC73FCH1H100D	CAP. CHIP (2*1.25)	10p	0.5%	50V
C139			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C140			CC73FCH1H121J	CAP. CHIP (2*1.25)	120p	5%	50V
C141			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C142			CK73FB1H152K	CAP. CHIP (2*1.25)	1500p	10%	50V
C143			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C144			CE04LW0J331M	CAP. ELECTRO	330u	20%	6.3V
C145			CE04LW0J331M	CAP. ELECTRO	330u	20%	6.3V
C146			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C147			CC73FCH1H390J	CAP. CHIP (2*1.25)	39p	5%	50V
C148			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C149			CC73FCH1H070D	CAP. CHIP (2*1.25)	7p	0.5%	50V
C150			CC73FCH1H030C	CAP. CHIP (2*1.25)	3p	0.25%	50V
C151			CC73FCH1H120J	CAP. CHIP (2*1.25)	12p	5%	50V
C152			CC73FCH1H471J	CAP. CHIP (2*1.25)	470p	5%	50V
C153			CC73FCH1H151J	CAP. CHIP (2*1.25)	150p	5%	50V
C154			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C155			C91-2694-05	CAP. FILM	4700p		100V
C156			C91-2694-05	CAP. FILM	4700p		100V
C157			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C158			CC73FCH1H470J	CAP. CHIP (2*1.25)	47p	5%	50V
C159			CC73FCH1H100D	CAP. CHIP (2*1.25)	10p	0.5%	50V
C160			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C161			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C301			CE04HW0J470M	CAP. ELECTRO	47u	20%	6.3V
C302			CE04LW0J331M	CAP. ELECTRO	330u	20%	6.3V
C304			CC73FCH1H470J	CAP. CHIP (2*1.25)	47p	5%	50V
C305			CE04LW1A221M	CAP. ELECTRO	220u	20%	10V
C306			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C307			CE04LW0J331M	CAP. ELECTRO	330u	20%	6.3V
C308			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C309			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C310			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C311			CE04LW1C101M	CAP. ELECTRO	100u	20%	16V
C312			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V

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PARTS LIST

LS 8105A/LS 8106A

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Ref. No	8105A	8106A	Parts No.	Name & Description			
C313	-		CC73FCH1H391J	CAP. CHIP (2*1.25)	390p	5%	50V
C314			CC73FCH1H050C	CAP. CHIP (2*1.25)	5p	0.25%	50V
C315			CC73FCH1H180J	CAP. CHIP (2*1.25)	18p	5%	50V
C316			CE04HW0J101M	CAP. ELECTRO	100u	20%	6.3V
C317			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C318			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C319			CK45FB2H152K	CAP. CERAMIC	1500p	10%	500V
C320			C91-2585-05	CAP. FILM	0.01u		250V
C321			C91-2585-05	CAP. FILM	0.01u		250V
C322			CE04EW2E010M	CAP. ELECTRO	1u	20%	250V
C323			C91-2587-05	CAP. FILM	0.1u		250V
C324			C91-2587-05	CAP. FILM	0.1u		250V
C325			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C326			CE04HW1E4R7M	CAP. ELECTRO	4.7u	20%	25V
C327			CC73FCH1H180J	CAP. CHIP (2*1.25)	18p	5%	50V
C328			CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V
C329			CC73FCH1H270J	CAP. CHIP (2*1.25)	27p	5%	50V
C330			CC45FCH2H010C	CAP. CERAMIC	1p	0.25%	500V
C331			CC45FCH2H010C	CAP. CERAMIC	1p	0.25%	500V
C332			CC45FCH2H020C	CAP. CERAMIC	2p	0.25%	500V
C333			CC45FCH2H010C	CAP. CERAMIC	1p	0.25%	500V
C334			CC45FCH2H010C	CAP. CERAMIC	1p	0.25%	500V
C335			CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V
C336			CE04HW1E010M	CAP. ELECTRO	1u	20%	25V
C337			CE04HW1H010M	CAP. ELECTRO	1u	20%	50V
C401	-		CE04HW1E220M	CAP. ELECTRO	22u	20%	25V
C404			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C405			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C406			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C409			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C412	-		CE04LW1H010M	CAP. ELECTRO	1u	20%	50V
C413			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C414			CC73FCH1H070D	CAP. CHIP (2*1.25)	7p	0.5%	50V
C415			CC73FCH1H070D	CAP. CHIP (2*1.25)	7p	0.5%	50V
C416			CC73FCH1H680J	CAP. CHIP (2*1.25)	68p	5%	50V
C501	-		CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C502			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C503			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C551			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C552			CC73FCH1H030C	CAP. CHIP (2*1.25)	3p	0.25%	50V
C555	-		CK73FB1A225K	CAP. CHIP (2*1.25)	2.2u	10%	10V
C557			CK73FB1A225K	CAP. CHIP (2*1.25)	2.2u	10%	10V
C558			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C559			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C560			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C561	-		CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C562			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C563			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C564			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C565			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C566	-		CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C567			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C568			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C569			CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V
C570			CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V

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C571			CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V
C572			CE04HW1A221M	CAP. ELECTRO	220u	20%	10V
C579			CC73FCH1H391J	CAP. CHIP (2*1.25)	390p	5%	50V
C583			CC73FCH1H060D	CAP. CHIP (2*1.25)	6p	0.5%	50V
C591			CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V
C592	-		CC73FSL1H102J	CAP. CHIP (2*1.25)	1000p	5%	50V
C595			CC73FCH1H390J	CAP. CHIP (2*1.25)	39p	5%	50V
C596			CE04LW1C101M	CAP. ELECTRO	100u	20%	16V
C597			CE04LW1C101M	CAP. ELECTRO	100u	20%	16V
C598			CE04LW1C101M	CAP. ELECTRO	100u	20%	16V
C599			CK73FB1H472K	CAP. CHIP (2*1.25)	4700p	10%	50V
C801			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C802			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C803			CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V
C899			CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V
C901	-		CK73FB1H472K	CAP. CHIP (2*1.25)	4700p	10%	50V
CN7		-	E40-7519-05	PIN CONNECTOR	4P		
CN10			E40-7660-05	PIN CONNECTOR	16P		
CN10			E40-7659-05	PIN CONNECTOR	10P		
CN15			E40-5067-05	PIN CONNECTOR	10P		
CN24			E40-7515-05	PIN CONNECTOR	3P		
CN25	-	-	E40-5220-05	PIN CONNECTOR	12P		
CN29			E40-3242-05	PIN CONNECTOR	7P		
CN32			E40-3237-05	PIN CONNECTOR	2P		
CN670			E40-7519-05	PIN CONNECTOR	4P		
D1			RB751V-40	DIODE			
D2			RB751V-40	DIODE			
D3			DAP202K	DIODE			
D4			MA111	DIODE			
D5			MA111	DIODE			
D6			RB751V-40	DIODE			
D7			RB751V-40	DIODE			
D8			RB751V-40	DIODE			
D9			MA111	DIODE			
D10			DAN202K	DIODE			
D12			MA111	DIODE			
D13			RB751V-40	DIODE			
D14			RB751V-40	DIODE			
D15			MA111	DIODE			
D16			DAP202K	DIODE			
D17			RB751V-40	DIODE			
D101			MA111	DIODE			
D102			RB751V-40	DIODE			
D103			MA111	DIODE			
D104			DAP202K	DIODE			
D105			RB751V-40	DIODE			
D106			RB751V-40	DIODE			
D107			MA111	DIODE			
D108			MA111	DIODE			
D109			DAP202K	DIODE			
D110			MA111	DIODE			
D111			MA111	DIODE			
D112			MA111	DIODE			
D113			DAP202K	DIODE			
D114			DAP202K	DIODE			

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D115			MA111	DIODE
D116			MA111	DIODE
D117			MA111	DIODE
D118			DAN202K	DIODE
D119			MA111	DIODE
D120			DAP202K	DIODE
D121			MA111	DIODE
D122			DAP202K	DIODE
D123			MA111	DIODE
D124			MA111	DIODE
D125			MA111	DIODE
D126			RB751V-40	DIODE
D127			RB751V-40	DIODE
D128			RB751V-40	DIODE
D129			RB751V-40	DIODE
D130			RB751V-40	DIODE
D301			RB751V-40	DIODE
D302			MA111	DIODE
D303			MA111	DIODE
D304			UDZ3.0B	ZENER DIODE
D305			MA111	DIODE
D306			UDZ3.0B	ZENER DIODE
D307			MA111	DIODE
D308			MA111	DIODE
D309			MA111	DIODE
D310			RB751V-40	DIODE
D311			PG1112H	LIGHT EMITTING DIODE
D312			PG1112H	LIGHT EMITTING DIODE
D313			RB751V-40	DIODE
D314			UDZ5.1B	ZENER DIODE
D401	-		RB751V-40	DIODE
D402	-		RB751V-40	DIODE
D405	-		DAN202K	DIODE
D406	-		RB751V-40	DIODE
D407	-		RB751V-40	DIODE
D412	-		PG1112H	LIGHT EMITTING DIODE
D413	-		PG1112H	LIGHT EMITTING DIODE
D414	-		MA111	DIODE
D550	-		HSM88ASTL	DIODE
D551	-		PG1112H	LIGHT EMITTING DIODE
D552	-		PG1112H	LIGHT EMITTING DIODE
D553	-		HSM88ASTL	DIODE
D554	-		HSM88ASTL	DIODE
D555	-		RB751V-40	DIODE
D556	-		RB751V-40	DIODE
IC1			TC4053BF	IC, TRIPLE 2-CH MPX/DE-MPX
IC2			NJM072M	IC, J-FET INPUT DUAL OP AMP
IC3			MC10H102P	IC, QUAD 2-INPUT NOR GATE
IC101			NJM4558V	IC, DUAL OP AMP
IC102			KMX03	HIC
IC103			KMX03	HIC
IC104			TC4053BF	IC, TRIPLE 2-CH MPX/DE-MPX
IC105			TC4053BF	IC, TRIPLE 2-CH MPX/DE-MPX
IC106			SN74ALS02ANS	IC, QUAD 2-INPUT POSITIVE NOR GATES
IC107			SN74ALS74ANS	IC, DUAL D FLIP-FLOP WITH PRESET AND CLEAR

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IC108			MC10H131P	IC, DUAL TYPED MASTER-SLAVE FLIP-FLOP
IC109			TC4052BF	IC, DIFFERENTIAL 4-CH MPX/DE-MPX
IC110			TC4052BF	IC, DIFFERENTIAL 4-CH MPX/DE-MPX
IC111			UPC812G	IC, DUAL OP AMP
IC112			UPC812G	IC, DUAL OP AMP
IC113			KMX04	HIC
IC114			KMX04	HIC
IC115			SN74ALS74ANS	IC, DUAL D FLIP-FLOP WITH PRESET AND CLEAR
IC116			TC74HC4053AF	IC, TRIPLE 2-CH ANALOG MPX
IC301			TC74HC4053AF	IC, TRIPLE 2-CH ANALOG MPX
IC401	-		NJM4558V	IC, DUAL OP AMP
IC402	-		TC4052BF	IC, DIFFERENTIAL 4-CH MPX/DE-MPX
IC403	-		NJM072M	IC, J-FET INPUT DUAL OP AMP
IC404	-		NJM4558V	IC, DUAL OP AMP
IC405	-		NJM4558V	IC, DUAL OP AMP
IC406	-		NJM4558V	IC, DUAL OP AMP
IC408	-		HD74HC595FP	IC, 8-BIT SHIFT REGISTER/LATCH (3-STATE)
IC409	-		TC4053BF	IC, TRIPLE 2-CH MPX/DE-MPX
IC410	-		HD74HC595FP	IC, 8-BIT SHIFT REGISTER/LATCH (3-STATE)
IC412	-		HD74HC595FP	IC, 8-BIT SHIFT REGISTER/LATCH (3-STATE)
IC413	-		HD74HC595FP	IC, 8-BIT SHIFT REGISTER/LATCH (3-STATE)
IC501	-		NJM2901V	IC, CONVERTER
IC502	-		NJM2901V	IC, CONVERTER
IC503	-		NJM2901V	IC, CONVERTER
IC504	-		SN74ALS00ANS	IC, QUAD 2-INPUT NAND GATE
IC505	-		TC74HC00AF	IC, QUAD 2-INPUT NAND GATE
IC506	-		TC74HC00AF	IC, QUAD 2-INPUT NAND GATE
IC507	-		TC74HC08AF	IC, QUAD 2-INPUT AND GATE
IC551	-		LM6172IM	IC, OP AMP
IC552	-		LM6172IM	IC, OP AMP
IC553	-		LT1097S8	IC, LOW COST, LOW POWER PRECISION
IC554	-		NJM4558M	IC, DUAL OP AMP
IC555	-		LM6172IM	IC, OP AMP
IC556	-		LT1097S8	IC, LOW COST, LOW POWER PRECISION
K301			S76-0027-05	RELAY
L101			L79-0553-05	FILTER
P1			E23-1520-05	EARTH TERMINAL
P2			E23-1520-05	EARTH TERMINAL
P4			E23-1520-05	EARTH TERMINAL
P550	-		E23-0508-04	EARTH TERMINAL
Q1			2SA1738(Q,R)	TR, SI, PNP
Q2			2SC2735	TR, SI, NPN
Q3			2SA1738(Q,R)	TR, SI, PNP
Q4			2SC2412K(R,S)	TR, SI, NPN
Q5			2SC2412K(R,S)	TR, SI, NPN
Q6			2SC2412K(R,S)	TR, SI, NPN
Q7			2SA1226(E4)	TR, SI, PNP
Q8			2SC2714(O)	TR, SI, NPN
Q9			2SC2412K(R,S)	TR, SI, NPN
Q10			2SC2714(O)	TR, SI, NPN
Q11			2SC3775(3)	TR, SI, NPN
Q12			2SC3775(3)	TR, SI, NPN
Q13			2SC2412K(R,S)	TR, SI, NPN
Q14			2SA1226(E4)	TR, SI, PNP
Q16			2SA1738(Q,R)	TR, SI, PNP

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Y : PX(Far East,Hawaii)  
Y : AAFES(Europe)

K : USA  
T : England  
X : Australia

P : Canada  
E : Europe  
M : Other Areas

R : Mexico  
G : Germany

⚠ indicates safety critical components .

# LS 8105A/LS 8106A

## PARTS LIST

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Ref. No	8105A	8106A	Parts No.	Name & Description
Q17			2SA1037K(R,S)	TR. SI, PNP
Q18			2SA1037K(R,S)	TR. SI, PNP
Q19			2SA1037K(R,S)	TR. SI, PNP
Q20			2SA1738(Q,R)	TR. SI, PNP
Q21			2SC2412K(R,S)	TR. SI, NPN
Q22			2SC2412K(R,S)	TR. SI, NPN
Q23			2SC2412K(R,S)	TR. SI, NPN
Q24			2SC2412K(R,S)	TR. SI, NPN
Q25			2SC2735	TR. SI, NPN
Q26			2SA1738(Q,R)	TR. SI, PNP
Q101			2SC2412K(R,S)	TR. SI, NPN
Q102			2SC2412K(R,S)	TR. SI, NPN
Q103			2SA1738(Q,R)	TR. SI, PNP
Q104			2SA1037K(R,S)	TR. SI, PNP
Q105			FMW1	TR.
Q106			2SA1226(E4)	TR. SI, PNP
Q107			2SA1226(E4)	TR. SI, PNP
Q108			2SC2412K(R,S)	TR. SI, NPN
Q109			2SA1037K(R,S)	TR. SI, PNP
Q110			2SC3115(D27)	TR. SI, NPN
Q111			2SC3115(D27)	TR. SI, NPN
Q112			2SA1226(E4)	TR. SI, PNP
Q113			2SA1226(E4)	TR. SI, PNP
Q114			2SC2412K(R,S)	TR. SI, NPN
Q115			2SA1037K(R,S)	TR. SI, PNP
Q116			2SA1037K(R,S)	TR. SI, PNP
Q117			2SK209(Y)	FET
Q118			2SC2412K(R,S)	TR. SI, NPN
Q119			2SK209(Y)	FET
Q120			2SC2412K(R,S)	TR. SI, NPN
Q121			2SK209(BL)	FET
Q122			2SK209(BL)	FET
Q123			2SC2735	TR. SI, NPN
Q124			2SC2412K(R,S)	TR. SI, NPN
Q125			2SC2735	TR. SI, NPN
Q126			2SA1037K(R,S)	TR. SI, PNP
Q127			2SA1037K(R,S)	TR. SI, PNP
Q128			2SC2714(O)	TR. SI, NPN
Q129			2SC2735	TR. SI, NPN
Q130			2SC2735	TR. SI, NPN
Q131			2SC2714(O)	TR. SI, NPN
Q132			2SA1037K(R,S)	TR. SI, PNP
Q133			2SA1037K(R,S)	TR. SI, PNP
Q134			2SC2714(O)	TR. SI, NPN
Q135			2SC2714(O)	TR. SI, NPN
Q136			2SA1226(E4)	TR. SI, PNP
Q137			2SA1037K(R,S)	TR. SI, PNP
Q138			2SA1226(E4)	TR. SI, PNP
Q139			2SA1226(E4)	TR. SI, PNP
Q140			2SA1226(E4)	TR. SI, PNP
Q141			2SA1226(E4)	TR. SI, PNP
Q142			2SC2412K(R,S)	TR. SI, NPN
Q143			2SA1037K(R,S)	TR. SI, PNP
Q144			2SA1738(Q,R)	TR. SI, PNP
Q145			2SC2412K(R,S)	TR. SI, NPN

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# LS 8105A/LS 8106A

## PARTS LIST

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Ref. No	8105A	8106A	Parts No.	Name & Description
Q146			2SC2714(O)	TR. SI, NPN
Q147			2SC2714(O)	TR. SI, NPN
Q148			2SC2412K(R,S)	TR. SI, NPN
Q149			2SK209(BL)	FET
Q150			2SC2412K(R,S)	TR. SI, NPN
Q151			2SK209(BL)	FET
Q301			2SC2412K(R,S)	TR. SI, NPN
Q302			2SC2412K(R,S)	TR. SI, NPN
Q303			2SC2412K(R,S)	TR. SI, NPN
Q304			2SC2412K(R,S)	TR. SI, NPN
Q305			2SA1037K(R,S)	TR. SI, PNP
Q306			2SA1037K(R,S)	TR. SI, PNP
Q307			2SA1226(E4)	TR. SI, PNP
Q308			2SA1226(E4)	TR. SI, PNP
Q309			2SC2412K(R,S)	TR. SI, NPN
Q310			2SC2412K(R,S)	TR. SI, NPN
Q311			2SC2735	TR. SI, NPN
Q312			2SC2735	TR. SI, NPN
Q313			2SA1738(Q,R)	TR. SI, PNP
Q314			2SC2735	TR. SI, NPN
Q315			2SC2735	TR. SI, NPN
Q316			2SA1738(Q,R)	TR. SI, PNP
Q317			2SC4732(E)	TR. SI, NPN
Q318			2SC4732(E)	TR. SI, NPN
Q319			2SC2551(O)	TR. SI, NPN
Q320			2SA1828(E)	TR. SI, PNP
Q321			2SA1828(E)	TR. SI, PNP
Q401	-		2SC3775(3)	TR. SI, NPN
Q402	-		2SC2412K(R,S)	TR. SI, NPN
Q403	-		2SC2412K(R,S)	TR. SI, NPN
Q404	-		2SC3735(B34)	TR. SI, NPN
Q405	-		2SC2714(O)	TR. SI, NPN
Q406	-		2SC2412K(R,S)	TR. SI, NPN
Q407	-		2SC3735(B34)	TR. SI, NPN
Q408	-		2SA1037(R,S)	TR. SI, PNP
Q409	-		2SA1037(R,S)	TR. SI, PNP
Q410	-		2SC2714(O)	TR. SI, NPN
Q411	-		2SA1037(R,S)	TR. SI, PNP
Q412	-		2SC2412K(R,S)	TR. SI, NPN
Q413	-		2SA1037(R,S)	TR. SI, PNP
Q414	-		2SA1037(R,S)	TR. SI, PNP
R1			RK73FB2A105J	RES. CHIP (2*1.25) 1M 5% 1/10W
R2			RK73FB2A105J	RES. CHIP (2*1.25) 1M 5% 1/10W
R3			RK73FB2A220J	RES. CHIP (2*1.25) 22 5% 1/10W
R4			RK73FB2A105J	RES. CHIP (2*1.25) 1M 5% 1/10W
R5			RK73FB2A105J	RES. CHIP (2*1.25) 1M 5% 1/10W
R6			RK73FB2A133J	RES. CHIP (2*1.25) 13K 5% 1/10W
R7			RK73FB2A753J	RES. CHIP (2*1.25) 75K 5% 1/10W
R8			RK73FB2A202J	RES. CHIP (2*1.25) 2K 5% 1/10W
R9			RK73FB2A222J	RES. CHIP (2*1.25) 2.2K 5% 1/10W
R10			RK73FB2A243J	RES. CHIP (2*1.25) 24K 5% 1/10W
R11	-		RK73FB2A393J	RES. CHIP (2*1.25) 39K 5% 1/10W
R11			RK73FB2A151J	RES. CHIP (2*1.25) 150 5% 1/10W
R12			RK73FB2A222J	RES. CHIP (2*1.25) 2.2K 5% 1/10W
R13			RK73FB2A104J	RES. CHIP (2*1.25) 100K 5% 1/10W
R14			RK73FB2A102J	RES. CHIP (2*1.25) 1K 5% 1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R15			RK73FB2A221J	RES. CHIP (2*1.25)	220	5%	1/10W
R16			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R17			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R18			RK73FB2A822J	RES. CHIP (2*1.25)	8.2K	5%	1/10W
R19			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R20			RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R21			RK73FB2A682J	RES. CHIP (2*1.25)	6.8K	5%	1/10W
R22			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R23			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R24			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R25			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R26			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R27			RK73FB2A473J	RES. CHIP (2*1.25)	47K	5%	1/10W
R28			RK73FB2A393J	RES. CHIP (2*1.25)	39K	5%	1/10W
R29			RK73FB2A751J	RES. CHIP (2*1.25)	750	5%	1/10W
R30			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R31			RK73FB2A123J	RES. CHIP (2*1.25)	12K	5%	1/10W
R32			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R33			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R34			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R35			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R36			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R37			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R38			RK73FB2A821J	RES. CHIP (2*1.25)	820	5%	1/10W
R39			RK73FB2A622J	RES. CHIP (2*1.25)	6.2K	5%	1/10W
R40			RK73FB2A221J	RES. CHIP (2*1.25)	220	5%	1/10W
R41			RN73FH2A182D	RES. CHIP (2*1.25)	1.8K	0.5%	1/10W
R42			RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R43			RK73FB2A221J	RES. CHIP (2*1.25)	220	5%	1/10W
R44			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R45			RK73FB2A272J	RES. CHIP (2*1.25)	2.7K	5%	1/10W
R46			RK73FB2A331J	RES. CHIP (2*1.25)	330	5%	1/10W
R47			RK73FB2A750J	RES. CHIP (2*1.25)	75	5%	1/10W
R48			RK73FB2A750J	RES. CHIP (2*1.25)	75	5%	1/10W
R49			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R50			RK73FB2A680J	RES. CHIP (2*1.25)	68	5%	1/10W
R51			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R52			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R53			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R54			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R55			RK73FB2A122J	RES. CHIP (2*1.25)	1.2K	5%	1/10W
R56			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R57			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R58			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R61			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R62			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R63			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R64			RK73FB2A132J	RES. CHIP (2*1.25)	1.3K	5%	1/10W
R65			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R66			RK73FB2A391J	RES. CHIP (2*1.25)	390	5%	1/10W
R67			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R68			RK73FB2A621J	RES. CHIP (2*1.25)	620	5%	1/10W
R69			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R70			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R71			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R72			RK73FB2A511J	RES. CHIP (2*1.25)	510	5%	1/10W
R73			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R74			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R75			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R76			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R77			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R78			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R79			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R80			RK73FB2A473J	RES. CHIP (2*1.25)	47K	5%	1/10W
R81			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R82			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R83			RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R84			RN73FH2A184D	RES. CHIP (2*1.25)	180K	0.5%	1/10W
R85			RN73FH2A184D	RES. CHIP (2*1.25)	180K	0.5%	1/10W
R86			RK73FB2A132J	RES. CHIP (2*1.25)	1.3K	5%	1/10W
R87			RK73FB2A391J	RES. CHIP (2*1.25)	390	5%	1/10W
R88			RK73FB2A473J	RES. CHIP (2*1.25)	47K	5%	1/10W
R101			RN73FH2A133D	RES. CHIP (2*1.25)	13K	0.5%	1/10W
R102			RK73FB2A433J	RES. CHIP (2*1.25)	43K	5%	1/10W
R103			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R104			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5%	1/10W
R105			RN73FH2A153D	RES. CHIP (2*1.25)	15K	0.5%	1/10W
R106			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R107			RK73FB2A391J	RES. CHIP (2*1.25)	390	5%	1/10W
R108			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R109			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R110			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R111			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R112			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R113			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R114			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R115			RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R116			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R117			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R118			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R119			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R120			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R121			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R122			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R123			RK73FB2A333J	RES. CHIP (2*1.25)	33K	5%	1/10W
R123			RK73FB2A473J	RES. CHIP (2*1.25)	47K	5%	1/10W
R124			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R125			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R126			RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R127			RK73FB2A330J	RES. CHIP (2*1.25)	33	5%	1/10W
R128			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R129			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R130			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R131			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R132			RK73FB2A684J	RES. CHIP (2*1.25)	680K	5%	1/10W
R133			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R134			RK73FB2A132J	RES. CHIP (2*1.25)	1.3K	5%	1/10W
R135			RK73FB2A203J	RES. CHIP (2*1.25)	20K	5%	1/10W
R136			RK73FB2A120J	RES. CHIP (2*1.25)	12	5%	1/10W
R137			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R138			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R139			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R140			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R141			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R142			RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W
R143			RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W
R144			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R145			RK73FB2A272J	RES. CHIP (2*1.25)	2.7K	5%	1/10W
R146			RK73FB2A272J	RES. CHIP (2*1.25)	2.7K	5%	1/10W
R147			RK73FB2A682J	RES. CHIP (2*1.25)	6.8K	5%	1/10W
R148			RN73FH2A183D	RES. CHIP (2*1.25)	18K	0.5%	1/10W
R149			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R150			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R151			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R152			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R153			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R154			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R155			RN73FH2A182D	RES. CHIP (2*1.25)	1.8K	0.5%	1/10W
R156			RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R157			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R158			RN73FH2A182D	RES. CHIP (2*1.25)	1.8K	0.5%	1/10W
R159			RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R160			RK73FB2A301J	RES. CHIP (2*1.25)	300	5%	1/10W
R161			RK73FB2A822J	RES. CHIP (2*1.25)	8.2K	5%	1/10W
R162			RK73FB2A822J	RES. CHIP (2*1.25)	8.2K	5%	1/10W
R163			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R164			RK73FB2A302J	RES. CHIP (2*1.25)	3K	5%	1/10W
R165			RK73FB2A302J	RES. CHIP (2*1.25)	3K	5%	1/10W
R166			RN73FH2A182D	RES. CHIP (2*1.25)	1.8K	0.5%	1/10W
R167			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R168			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R169			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R170			RK73FB2A562J	RES. CHIP (2*1.25)	5.6K	5%	1/10W
R171			RK73FB2A362J	RES. CHIP (2*1.25)	3.6K	5%	1/10W
R172			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R173			RK73FB2A123J	RES. CHIP (2*1.25)	12K	5%	1/10W
R174			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R175			RK73FB2A123J	RES. CHIP (2*1.25)	12K	5%	1/10W
R176			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R177			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R178			RK73FB2A680J	RES. CHIP (2*1.25)	68	5%	1/10W
R179			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R180			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R181			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R182			RN73FH2A131D	RES. CHIP (2*1.25)	130	0.5%	1/10W
R183			RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R184			RN73FH2A182D	RES. CHIP (2*1.25)	1.8K	0.5%	1/10W
R185			RN73FH2A131D	RES. CHIP (2*1.25)	130	0.5%	1/10W
R186			RK73FB2A680J	RES. CHIP (2*1.25)	68	5%	1/10W
R187			RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R188			RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R189			RK73FB2A303J	RES. CHIP (2*1.25)	30K	5%	1/10W
R190			RN73FH2A272D	RES. CHIP (2*1.25)	2.7K	0.5%	1/10W
R191			RN73FH2A183D	RES. CHIP (2*1.25)	18K	0.5%	1/10W
R192			RN73FH2A272D	RES. CHIP (2*1.25)	2.7K	0.5%	1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R193			RN73FH2A183D	RES. CHIP (2*1.25)	18K	0.5%	1/10W
R194			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R195			RK73FB2A562J	RES. CHIP (2*1.25)	5.6K	5%	1/10W
R196			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R197			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R198			RK73FB2A432J	RES. CHIP (2*1.25)	4.3K	5%	1/10W
R199			RN73FH2A183D	RES. CHIP (2*1.25)	18K	0.5%	1/10W
R200			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R201			RK73FB2A432J	RES. CHIP (2*1.25)	4.3K	5%	1/10W
R202			RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R203			RN73FH2A183D	RES. CHIP (2*1.25)	18K	0.5%	1/10W
R204			RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R205			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R206			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R207			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R208			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R209			RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R210			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R211			RK73FB2A622J	RES. CHIP (2*1.25)	6.2K	5%	1/10W
R212			RK73FB2A751J	RES. CHIP (2*1.25)	750	5%	1/10W
R213			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R214			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R215			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R216			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R217			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R218			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R219			RK73FB2A431J	RES. CHIP (2*1.25)	430	5%	1/10W
R220			RK73FB2A621J	RES. CHIP (2*1.25)	620	5%	1/10W
R221			RK73FB2A202J	RES. CHIP (2*1.25)	22	5%	1/10W
R222			RK73FB2A202J	RES. CHIP (2*1.25)	2K	5%	1/10W
R223			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R224			RK73FB2A202J	RES. CHIP (2*1.25)	2K	5%	1/10W
R225			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R226			RK73FB2A151J	RES. CHIP (2*1.25)	150	5%	1/10W
R227			RK73FB2A111J	RES. CHIP (2*1.25)	110	5%	1/10W
R228			RK73FB2A202J	RES. CHIP (2*1.25)	2K	5%	1/10W
R229			RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R229			RK73FB2A242J	RES. CHIP (2*1.25)	2.4K	5%	1/10W
R230			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R231			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R232			RK73FB2A621J	RES. CHIP (2*1.25)	620	5%	1/10W
R233			RK73FB2A202J	RES. CHIP (2*1.25)	2K	5%	1/10W
R234			RK73FB2A682J	RES. CHIP (2*1.25)	6.8K	5%	1/10W
R235			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R236			RK73FB2A682J	RES. CHIP (2*1.25)	6.8K	5%	1/10W
R237			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R238			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R239			RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R240			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R241			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R242			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R243			RK73FB2A151J	RES. CHIP (2*1.25)	150	5%	1/10W
R244			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R245			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R246			RK73FB2A432J	RES. CHIP (2*1.25)	4.3K	5%	1/10W

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PARTS LIST

LS 8105A/LS 8106A

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R247			RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R248			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R249			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R250			RK73FB2A302J	RES. CHIP (2*1.25)	3K	5%	1/10W
R251			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R252			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R253			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R254			RK73FB2A303J	RES. CHIP (2*1.25)	30K	5%	1/10W
R255			RK73FB2A431J	RES. CHIP (2*1.25)	430	5%	1/10W
R256			RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R257			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R258			RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R259			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R260			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R261			RK73FB2A182J	RES. CHIP (2*1.25)	1.8K	5%	1/10W
R262		-	RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R263		-	RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R263		-	RK73FB2A122J	RES. CHIP (2*1.25)	1.2K	5%	1/10W
R264			RK73FB2A301J	RES. CHIP (2*1.25)	300	5%	1/10W
R265			RN73FH2A331D	RES. CHIP (2*1.25)	330	0.5%	1/10W
R266			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R267			RK73FB2A132J	RES. CHIP (2*1.25)	1.3K	5%	1/10W
R268			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R269			RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R270			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R271			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R272			RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R273			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5%	1/10W
R274			RN73FH2A103D	RES. CHIP (2*1.25)	10K	0.5%	1/10W
R275			RK73FB2A751J	RES. CHIP (2*1.25)	750	5%	1/10W
R301			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R302			RK73FB2A202J	RES. CHIP (2*1.25)	2K	5%	1/10W
R303		-	RK73FB2A431J	RES. CHIP (2*1.25)	430	5%	1/10W
R303		-	RK73FB2A221J	RES. CHIP (2*1.25)	220	5%	1/10W
R304			RK73FB2A821J	RES. CHIP (2*1.25)	820	5%	1/10W
R305			RK73FB2A122J	RES. CHIP (2*1.25)	1.2K	5%	1/10W
R306			RK73FB2A223J	RES. CHIP (2*1.25)	22K	5%	1/10W
R307			RK73FB2A821J	RES. CHIP (2*1.25)	820	5%	1/10W
R308			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R309			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R310			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R311			RN73FH2A242D	RES. CHIP (2*1.25)	2.4K	0.5%	1/10W
R312			RN73FH2A242D	RES. CHIP (2*1.25)	2.4K	0.5%	1/10W
R314		-	RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R314		-	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R315			RK73FB2A362J	RES. CHIP (2*1.25)	3.6K	5%	1/10W
R316			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R317			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R318			RK73FB2A391J	RES. CHIP (2*1.25)	390	5%	1/10W
R319			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R320			RN73FH2A182D	RES. CHIP (2*1.25)	1.8K	0.5%	1/10W
R321			RK73FB2A202J	RES. CHIP (2*1.25)	2K	5%	1/10W
R322			RK73FB2A163J	RES. CHIP (2*1.25)	16K	5%	1/10W
R323			RN73FH2A132D	RES. CHIP (2*1.25)	1.3K	0.5%	1/10W
R324			RK73FB2A432J	RES. CHIP (2*1.25)	4.3K	5%	1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R325			RK73FB2A823J	RES. CHIP (2*1.25)	82K	5%	1/10W
R326			RK73FB2A302J	RES. CHIP (2*1.25)	3K	5%	1/10W
R327			RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R328			RK73FB2A682J	RES. CHIP (2*1.25)	6.8K	5%	1/10W
R329			RK73FB2A242J	RES. CHIP (2*1.25)	2.4K	5%	1/10W
R330			RK73FB2A912J	RES. CHIP (2*1.25)	9.1K	5%	1/10W
R331			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R332			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R333			RK73FB2A301J	RES. CHIP (2*1.25)	300	5%	1/10W
R334			RK73FB2A391J	RES. CHIP (2*1.25)	390	5%	1/10W
R335			RK73FB2A391J	RES. CHIP (2*1.25)	390	5%	1/10W
R336			RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R337			RK73FB2A390J	RES. CHIP (2*1.25)	39	5%	1/10W
R338			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R339			RN73FH2A392D	RES. CHIP (2*1.25)	3.9K	0.5%	1/10W
R340			RN73FH2A622D	RES. CHIP (2*1.25)	6.2K	0.5%	1/10W
R341			RK73FB2A393J	RES. CHIP (2*1.25)	39K	5%	1/10W
R342			RK73FB2A151J	RES. CHIP (2*1.25)	150	5%	1/10W
R343			RK73FB2A431J	RES. CHIP (2*1.25)	430	5%	1/10W
R344			RN73FH2A122D	RES. CHIP (2*1.25)	1.2K	0.5%	1/10W
R345			RK73FB2A622J	RES. CHIP (2*1.25)	6.2K	5%	1/10W
R346	-		RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R347			RK73FB2A432J	RES. CHIP (2*1.25)	4.3K	5%	1/10W
R348			RK73FB2A432J	RES. CHIP (2*1.25)	4.3K	5%	1/10W
R349	-		RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R350			RK73FB2A122J	RES. CHIP (2*1.25)	1.2K	5%	1/10W
R351			RK73FB2A122J	RES. CHIP (2*1.25)	1.2K	5%	1/10W
R352			RK73FB2A243J	RES. CHIP (2*1.25)	24K	5%	1/10W
R353			RK73FB2A243J	RES. CHIP (2*1.25)	24K	5%	1/10W
R354	-		RK73FB2A394J	RES. CHIP (2*1.25)	390K	5%	1/10W
R355			RK73FB2A164J	RES. CHIP (2*1.25)	160K	5%	1/10W
R356			RK73FB2A362J	RES. CHIP (2*1.25)	3.6K	5%	1/10W
R357			RK73FB2A362J	RES. CHIP (2*1.25)	3.6K	5%	1/10W
R358			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R359			RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R360			RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W
R361			RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R362			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R363			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R364			R92-1558-05	RESISTOR	39K	5%	1W
R365			R92-1558-05	RESISTOR	39K	5%	1W
R366			RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R367			RK73FB2A473J	RES. CHIP (2*1.25)	47K	5%	1/10W
R368			RN73FH2A134D	RES. CHIP (2*1.25)	130K	0.5%	1/10W
R369			RK73FB2A473J	RES. CHIP (2*1.25)	47K	5%	1/10W
R370			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R371			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R372			R92-1559-05	RESISTOR	47K	5%	1W
R373			R92-1559-05	RESISTOR	47K	5%	1W
R374			RN73FH2A682D	RES. CHIP (2*1.25)	6.8K	0.5%	1/10W
R375			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R376			RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R377			RK73FB2A751J	RES. CHIP (2*1.25)	750	5%	1/10W
R378			RK73FB2A751J	RES. CHIP (2*1.25)	750	5%	1/10W
R379			RK73FB2A681J	RES. CHIP (2*1.25)	680	5%	1/10W

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R380	-		RK73FB2A103J	RES. CHIP (2*1.25)	0.01u	5%	1/10W
R381		-	RK73FB2A564J	RES. CHIP (2*1.25)	560K	5%	1/10W
R381	-		RK73FB2A514J	RES. CHIP (2*1.25)	510K	5%	1/10W
R382			RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R383			RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R384		-	RN73FH2A304D	RES. CHIP (2*1.25)	300K	0.5%	1/10W
R384	-		RK73FB2A364J	RES. CHIP (2*1.25)	360K	5.0%	1/10W
R401		-	RN73FH2A203D	RES. CHIP (2*1.25)	20K	0.5%	1/10W
R402		-	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R403		-	RK73FB2A203J	RES. CHIP (2*1.25)	20K	5%	1/10W
R404		-	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R405		-	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R406		-	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R407		-	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R408		-	RK73FB2A432J	RES. CHIP (2*1.25)	4.3K	5%	1/10W
R409		-	RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R410		-	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R411		-	RK73FB2A105J	RES. CHIP (2*1.25)	1M	5%	1/10W
R412		-	RK73FB2A105J	RES. CHIP (2*1.25)	1M	5%	1/10W
R414		-	RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R415		-	RK73FB2A432J	RES. CHIP (2*1.25)	4.3K	5%	1/10W
R416		-	RN73FH2A303D	RES. CHIP (2*1.25)	30K	0.5%	1/10W
R418		-	RK73FB2A912J	RES. CHIP (2*1.25)	9.1K	5%	1/10W
R420		-	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R421		-	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R422		-	RN73FH2A184D	RES. CHIP (2*1.25)	180K	0.5%	1/10W
R423		-	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R424		-	RK73FB2A432J	RES. CHIP (2*1.25)	4.3K	5%	1/10W
R425		-	RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R426		-	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R427		-	RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W
R428		-	RK73FB2A432J	RES. CHIP (2*1.25)	4.3K	5%	1/10W
R429		-	RN73FH2A133D	RES. CHIP (2*1.25)	13K	0.5%	1/10W
R433		-	RK73FB2A241J	RES. CHIP (2*1.25)	240	5%	1/10W
R434		-	RK73FB2A181J	RES. CHIP (2*1.25)	180	5%	1/10W
R435		-	RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R436		-	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R437		-	RK73FB2A202J	RES. CHIP (2*1.25)	2K	5%	1/10W
R438		-	RK73FB2A302J	RES. CHIP (2*1.25)	3K	5%	1/10W
R439		-	RK73FB2A123J	RES. CHIP (2*1.25)	12K	5%	1/10W
R440		-	RK73FB2A912J	RES. CHIP (2*1.25)	9.1K	5%	1/10W
R441		-	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R442		-	RK73FB2A241J	RES. CHIP (2*1.25)	240	5%	1/10W
R443		-	RK73FB2A241J	RES. CHIP (2*1.25)	240	5%	1/10W
R444		-	RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R445		-	RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R446		-	RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W
R447		-	RK73FB2A821J	RES. CHIP (2*1.25)	820	5%	1/10W
R448		-	RK73FB2A241J	RES. CHIP (2*1.25)	240	5%	1/10W
R449		-	RK73FB2A121J	RES. CHIP (2*1.25)	120	5%	1/10W
R450		-	RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R451		-	RN73FH2A821D	RES. CHIP (2*1.25)	820	0.5%	1/10W
R452		-	RN73FH2A821D	RES. CHIP (2*1.25)	820	0.5%	1/10W
R453		-	RK73FB2A622J	RES. CHIP (2*1.25)	6.2K	5%	1/10W
R454		-	RK73FB2A912J	RES. CHIP (2*1.25)	9.1K	5%	1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R455		-	RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R456		-	RK73FB2A121J	RES. CHIP (2*1.25)	120	5%	1/10W
R457		-	RK73FB2A562J	RES. CHIP (2*1.25)	5.6K	5%	1/10W
R458		-	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R459		-	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R460		-	RK73FB2A332J	RES. CHIP (2*1.25)	3.3K	5%	1/10W
R461		-	RK73FB2A561J	RES. CHIP (2*1.25)	560	5%	1/10W
R462		-	RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R463		-	RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R464		-	RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R465		-	RK73FB2A303J	RES. CHIP (2*1.25)	30K	5%	1/10W
R466		-	RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R467		-	RK73FB2A470J	RES. CHIP (2*1.25)	47	5%	1/10W
R468		-	RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R469		-	RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R470		-	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R471		-	RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R472		-	RK73FB2A272J	RES. CHIP (2*1.25)	2.7K	5%	1/10W
R473		-	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R474		-	RN73FH2A152D	RES. CHIP (2*1.25)	1.5K	0.5%	1/10W
R475		-	RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R476		-	RK73FB2A202J	RES. CHIP (2*1.25)	2K	5%	1/10W
R477		-	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R478		-	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R479		-	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W
R480		-	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R481		-	RK73FB2A202J	RES. CHIP (2*1.25)	2K	5%	1/10W
R482		-	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R483		-	RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R487		-	RN73FH2A102D	RES. CHIP (2*1.25)	1K	0.5%	1/10W
R488		-	RK73FB2A394J	RES. CHIP (2*1.25)	390K	5%	1/10W
R489		-	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R494		-	RK73FB2A364J	RES. CHIP (2*1.25)	360K	5%	1/10W
R501	-		RK73FB2A163J	RES. CHIP (2*1.25)	16K	5%	1/10W
R502	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R503	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R504	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R505	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R506	-		RK73FB2A163J	RES. CHIP (2*1.25)	16K	5%	1/10W
R507	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R508	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R509	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R510	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R511	-		RK73FB2A163J	RES. CHIP (2*1.25)	16K	5%	1/10W
R512	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R513	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R514	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R515	-		RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W
R516	-		RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R517	-		RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R518	-		RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R519	-		RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R520	-		RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W
R521	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R522	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R523	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R524	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R525	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R526	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R527	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R528	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R529	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R530	-		RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R531	-		RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W
R532	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R533	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R534	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R535	-		RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W
R536	-		RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W
R537	-		RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W
R538	-		RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W
R549	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R550	-		RK73FB2A911J	RES. CHIP (2*1.25)	910	5%	1/10W
R551	-		RK73FB2A911J	RES. CHIP (2*1.25)	910	5%	1/10W
R552	-		RK73FB2A911J	RES. CHIP (2*1.25)	910	5%	1/10W
R553	-		RK73FB2A911J	RES. CHIP (2*1.25)	910	5%	1/10W
R554	-		RK73FB2A361J	RES. CHIP (2*1.25)	360	5%	1/10W
R555	-		RN73FH2A681D	RES. CHIP (2*1.25)	680	0.5%	1/10W
R556	-		RN73FH2A821D	RES. CHIP (2*1.25)	820	0.5%	1/10W
R557	-		RK73FB2A361J	RES. CHIP (2*1.25)	360	5%	1/10W
R558	-		RN73FH2A242D	RES. CHIP (2*1.25)	2.4K	0.5%	1/10W
R559	-		RN73FH2A202D	RES. CHIP (2*1.25)	2K	0.5%	1/10W
R560	-		RK73FB2A331J	RES. CHIP (2*1.25)	330	5%	1/10W
R561	-		RK73FB2A911J	RES. CHIP (2*1.25)	910	5%	1/10W
R562	-		RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R563	-		RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R564	-		RK73FB2A106J	RES. CHIP (2*1.25)	10M	5%	1/10W
R565	-		RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R566	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R567	-		RK73FB2A911J	RES. CHIP (2*1.25)	910	5%	1/10W
R568	-		RK73FB2A331J	RES. CHIP (2*1.25)	330	5%	1/10W
R569	-		RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R570	-		RK73FB2A911J	RES. CHIP (2*1.25)	910	5%	1/10W
R571	-		RK73FB2A331J	RES. CHIP (2*1.25)	330	5%	1/10W
R572	-		RK73FB2A911J	RES. CHIP (2*1.25)	910	5%	1/10W
R573	-		RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R574	-		RK73FB2A220J	RES. CHIP (2*1.25)	22	5%	1/10W
R575	-		RK73FB2A106J	RES. CHIP (2*1.25)	10M	5%	1/10W
R576	-		RK73FB2A471J	RES. CHIP (2*1.25)	470	5%	1/10W
R577	-		RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W
R578	-		RK73FB2A134J	RES. CHIP (2*1.25)	130K	5%	1/10W
R579	-		RK73FB2A331J	RES. CHIP (2*1.25)	330	5%	1/10W
R580	-		RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R581	-		RK73FB2A911J	RES. CHIP (2*1.25)	910	5%	1/10W
R582	-		RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R583	-		RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R584	-		RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R585	-		RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R586	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R587	-		RK73FB2A361J	RES. CHIP (2*1.25)	360	5%	1/10W

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Ref. No	8105A	8106A	Parts No.	Name & Description			
R588	-		RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R589	-		RN73FH2A202D	RES. CHIP (2*1.25)	2K	0.5%	1/10W
R590	-		RN73FH2A202D	RES. CHIP (2*1.25)	2K	0.5%	1/10W
R591	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R592	-		RK73FB2A204J	RES. CHIP (2*1.25)	200K	5%	1/10W
R596	-		RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R597	-		RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W
R700	-		RK73FB2A272J	RES. CHIP (2*1.25)	2.7K	5%	1/10W
R704	-		RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W
R991	-		R92-0670-05	RESISTOR	0		
R992	-		R92-0670-05	RESISTOR	0		
TC101	-		C05-0469-05	CAP. TRIMMER	10P		
TC102	-		C05-0469-05	CAP. TRIMMER	10P		
TC301	-		C05-0490-05	CAP. TRIMMER	20P		
TC302	-		C05-0724-05	CAP. TRIMMER	6P		
TH302	-		112-103-2FM	THERMISTOR			
TH384	-		R92-2723-05	RES. TEMP. COEFFICIENT	120	5%	
TH701	-		R92-1552-05	RES. TEMP. COEFFICIENT	180	5%	
TH702	-		R92-1560-05	RES. TEMP. COEFFICIENT			
TH703	-		R92-2733-05	RES. TEMP. COEFFICIENT	3K	5%	
VR1	-		R12-0680-05	RES. SEMI FIXED	47K		
VR2	-		R12-0680-05	RES. SEMI FIXED	47K		
VR101	-		R12-5569-05	RES. SEMI FIXED	100K		
VR102	-		R12-3599-05	RES. SEMI FIXED	22K		
VR103	-		R12-0680-05	RES. SEMI FIXED	47K		
VR104	-		R12-1860-05	RES. SEMI FIXED	1K		
VR105	-		R12-0694-05	RES. SEMI FIXED	4.7K		
VR106	-		R12-0680-05	RES. SEMI FIXED	47K		
VR107	-		R12-5569-05	RES. SEMI FIXED	100K		
VR108	-		R12-3599-05	RES. SEMI FIXED	22K		
VR301	-		R12-1860-05	RES. SEMI FIXED	1K		
VR302	-		R12-0680-05	RES. SEMI FIXED	47K		
VR303	-		R12-3597-05	RES. SEMI FIXED	47K		
VR304	-		R12-0883-05	RES. SEMI FIXED	220		
VR305	-		R12-0882-05	RES. SEMI FIXED	100		
VR306	-		R12-0678-05	RES. SEMI FIXED	10K		
VR307	-		R12-0694-05	RES. SEMI FIXED	4.7K		
VR308	-		R12-6501-05	RES. SEMI FIXED	470K		
VR401	-		R12-3042-05	RES. SEMI FIXED	47KB		
VR402	-		R12-0693-05	RES. SEMI FIXED	2.2K		
VR550	-		R12-0680-05	RES. SEMI FIXED	47K		

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# LS 8105A/LS 8106A PARTS LIST

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Ref. No	Parts No.	Name & Description				
LS 8106A READ OUT UNIT (X77-2350-00)						
	J73-0729-12	PCB (UNMOUNTED)				
C1	CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V	
C2	CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V	
C3	CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C4	CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C5	CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C6	CK73FB1H103K	CAP. CHIP (2*1.25)	0.01u	10%	50V	
C7	CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V	
C8	CK73FB1E104K	CAP. CHIP (2*1.25)	0.1u	10%	25V	
C9	CK73FB1H102K	CAP. CHIP (2*1.25)	1000p	10%	50V	
C10	CK73FB1H102K	CAP. CHIP (2*1.25)	1000p	10%	50V	
C11	CK73FB1H102K	CAP. CHIP (2*1.25)	1000p	10%	50V	
C12	CK73FF1H104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	50V	
C13	CK73FB1H223K	CAP. CHIP (2*1.25)	0.022u	10%	50V	
C14	CK73FF1H104Z	CAP. CHIP (2*1.25)	0.1u	-20/80%	50V	
C16	CK73FB1H102K	CAP. CHIP (2*1.25)	1000p	10%	50V	
C18	CK73FB1H102K	CAP. CHIP (2*1.25)	1000p	10%	50V	
C20	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C22	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C23	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C24	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C27	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C29	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C30	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C31	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C32	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C33	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C34	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C35	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C36	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C37	C92-1528-05	CAP. ELECTRO	100u		10V	
C38	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C41	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C45	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C46	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C47	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C50	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C51	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C52	C92-1527-05	CAP. ELECTRO	100u	20%	16V	
C53	C92-1527-05	CAP. ELECTRO	100u	20%	16V	
C54	C92-1522-05	CAP. ELECTRO	330u	20%	10V	
C55	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C56	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C57	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C58	C92-1528-05	CAP. ELECTRO	100u		10V	
C59	C92-1523-05	CAP. ELECTRO	470u		10V	
C60	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C62	CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V	
C63	CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V	
C64	CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V	
C65	CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V	
C66	CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V	
C67	CC73FCH1H101J	CAP. CHIP (2*1.25)	100p	5%	50V	

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Ref. No	Parts No.	Name & Description				
C68	C92-1528-05	CAP. ELECTRO	100u		10V	
C70	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C71	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C77	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C78	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C79	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C80	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C81	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C82	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C86	C92-1528-05	CAP. ELECTRO	100u		10V	
C87	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C90	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C91	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C92	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C94	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C95	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C96	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C97	CC73FCH1H100D	CAP. CHIP (2*1.25)	10p	0.5%	50V	
C98	CK73FF1H103Z	CAP. CHIP (2*1.25)	0.01u	-20/80%	50V	
C101	CK73FB1H102K	CAP. CHIP (2*1.25)	1000p	10%	50V	
CN8	E40-7594-05	PIN CONNECTOR			18P	
CN9	E40-3237-05	PIN CONNECTOR			2P	
CN10	E40-7624-05	PIN CONNECTOR			16P	
CN12	E40-3243-05	PIN CONNECTOR			8P	
CN20	E40-5314-05	PIN CONNECTOR			25P	
CN23	E40-3243-05	PIN CONNECTOR			8P	
CN27	E40-3242-05	PIN CONNECTOR			7P	
CN28	J19-1570-05	HOLDER				
D1	RB751V-40	DIODE				
IC1	62256BLFP7SL	IC, CMOS STATIC RAM				
IC2	M27C256B-HS0	IC, PROGRAMED ROM				
IC3	HD14053BFP	IC, TRIPLE 2-CH ANALOG MPX/DE-MPX				
IC4	HD14053BFP	IC, TRIPLE 2-CH ANALOG MPX/DE-MPX				
IC5	HD6433040SA00F	IC, 16-BIT MC				
IC6	MB3790PF	IC, BATTERY BACK UP				
IC7	HD74LS138FP	IC, 3-TO-8 LINE DECODER				
IC20	MB88101APFV-GB	IC, 4-CH 12-BIT A/D CONVERTER				
IC21	HD74LS374FP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)				
IC22	HD74LS374FP	IC, OCTAL D-TYPE FLIP-FLOP (3-STATE)				
IC23	DAC0808LCM	IC, 8-BIT D/A CONVERTER				
IC24	DAC0808LCM	IC, 8-BIT D/A CONVERTER				
IC25	HD14051BFP	IC, 8-BIT ANALOG MPX/DE-MPX				
IC26	HD14051BFP	IC, 8-BIT ANALOG MPX/DE-MPX				
IC30	HD74LS32FP	IC, QUAD 2-INPUTBOR GATE				
IC32	TC74HC08AF	IC, QUAD 2-INPUT AND GATE				
IC33	TC74HC08AF	IC, QUAD 2-INPUT AND GATE				
IC34	HD74HC86FP	IC, QUAD EXCLUSIVE OR GATE				
IC37	HD74LS21FP	IC, DUAL 4-INPUT AND GATE				
IC50	NJM072M	IC, DUAL OP AMP				
IC51	NJM4558V	IC, DUAL OP AMP				
IC52	NJM4558V	IC, DUAL OP AMP				
IC53	NJM4558V	IC, DUAL OP AMP				
IC55	HD14053BFP	IC, TRIPLE 2-CH ANALOG MPX/DE-MPX				
IC56	SN74AS74ANS	IC, DUAL D FLIP-FLOP WITH PRESET AND CLEAR				

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# LS 8105A/LS 8106A

## PARTS LIST



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Ref. No	Parts No.	Name & Description				
IC57	TC74HCU04AF	IC, HEX INVERTER				
IC58	EPF8282ALC84-4	IC				
L1	L79-0553-05	FILTER				
Q1	2SA1738(R)	TR. SI, PNP				
Q2	2SC3775(3)	TR. SI, NPN				
R1	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R2	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R3	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R4	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R8	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R9	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R10	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R11	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R12	RN73FH2A112D	RES. METAL FILM	1.1K	0.5%	1/10W	
R13	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R14	RN73FH2A911D	RES. METAL FILM	910	0.5%	1/10W	
R15	RN73FH2A332D	RES. METAL FILM	3.3K	0.5%	1/10W	
R16	RN73FH2A162D	RES. METAL FILM	1.6K	0.5%	1/10W	
R17	RN73FH2A272D	RES. METAL FILM	2.7K	0.5%	1/10W	
R18	RN73FH2A272D	RES. METAL FILM	2.7K	0.5%	1/10W	
R19	RN73FH2A302D	RES. METAL FILM	3K	0.5%	1/10W	
R20	RN73FH2A132D	RES. METAL FILM	1.3K	0.5%	1/10W	
R21	RN73FH2A332D	RES. METAL FILM	3.3K	0.5%	1/10W	
R22	RN73FH2A332D	RES. METAL FILM	3.3K	0.5%	1/10W	
R23	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R24	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R25	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R26	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R27	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R28	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R29	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R30	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R31	RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W	
R32	RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W	
R33	RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W	
R34	RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W	
R35	RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W	
R36	RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W	
R37	RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W	
R38	RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W	
R39	RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W	
R40	RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W	
R41	RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W	
R42	RK73FB2A513J	RES. CHIP (2*1.25)	51K	5%	1/10W	
R43	RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W	
R44	RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W	
R45	RK73FB2A152J	RES. CHIP (2*1.25)	1.5K	5%	1/10W	
R46	RN73FH2A103D	RES. METAL FILM	10K	0.5%	1/10W	
R47	RN73FH2A103D	RES. METAL FILM	10K	0.5%	1/10W	
R48	RN73FH2A103D	RES. METAL FILM	10K	0.5%	1/10W	
R49	RN73FH2A103D	RES. METAL FILM	10K	0.5%	1/10W	
R50	RN73FH2A912D	RES. METAL FILM	9.1K	0.5%	1/10W	
R51	RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W	
R52	RK73FB2A512J	RES. CHIP (2*1.25)	5.1K	5%	1/10W	
R53	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	

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R54	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R60	RK73FB2A100J	RES. CHIP (2*1.25)	10	5%	1/10W	
R61	RK73FB2A132J	RES. CHIP (2*1.25)	1.3K	5%	1/10W	
R62	RK73FB2A242J	RES. CHIP (2*1.25)	2.4K	5%	1/10W	
R63	RK73FB2A331J	RES. CHIP (2*1.25)	330	5%	1/10W	
R65	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R66	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R67	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R68	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R69	RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W	
R70	RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W	
R74	RN73FH2A153D	RES. METAL FILM	15K	0.5%	1/10W	
R75	RN73FH2A153D	RES. METAL FILM	15K	0.5%	1/10W	
R76	RN73FH2A912D	RES. METAL FILM	9.1K	0.5%	1/10W	
R77	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R78	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R79	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R80	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R81	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R82	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R83	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R84	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R85	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R86	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R87	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R88	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R89	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R90	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R91	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R92	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R93	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R94	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R95	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R96	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R97	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R98	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R99	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R100	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R101	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R103	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R104	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R105	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R106	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R107	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R108	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R109	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R110	RK73FB2A272J	RES. CHIP (2*1.25)	2.7K	5%	1/10W	
R111	RK73FB2A272J	RES. CHIP (2*1.25)	2.7K	5%	1/10W	
R112	RK73FB2A272J	RES. CHIP (2*1.25)	2.7K	5%	1/10W	
R113	RK73FB2A153J	RES. CHIP (2*1.25)	15K	5%	1/10W	
R114	RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W	
R115	RK73FB2A102J	RES. CHIP (2*1.25)	1K	5%	1/10W	
R116	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W	
R117	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W	
R118	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W	

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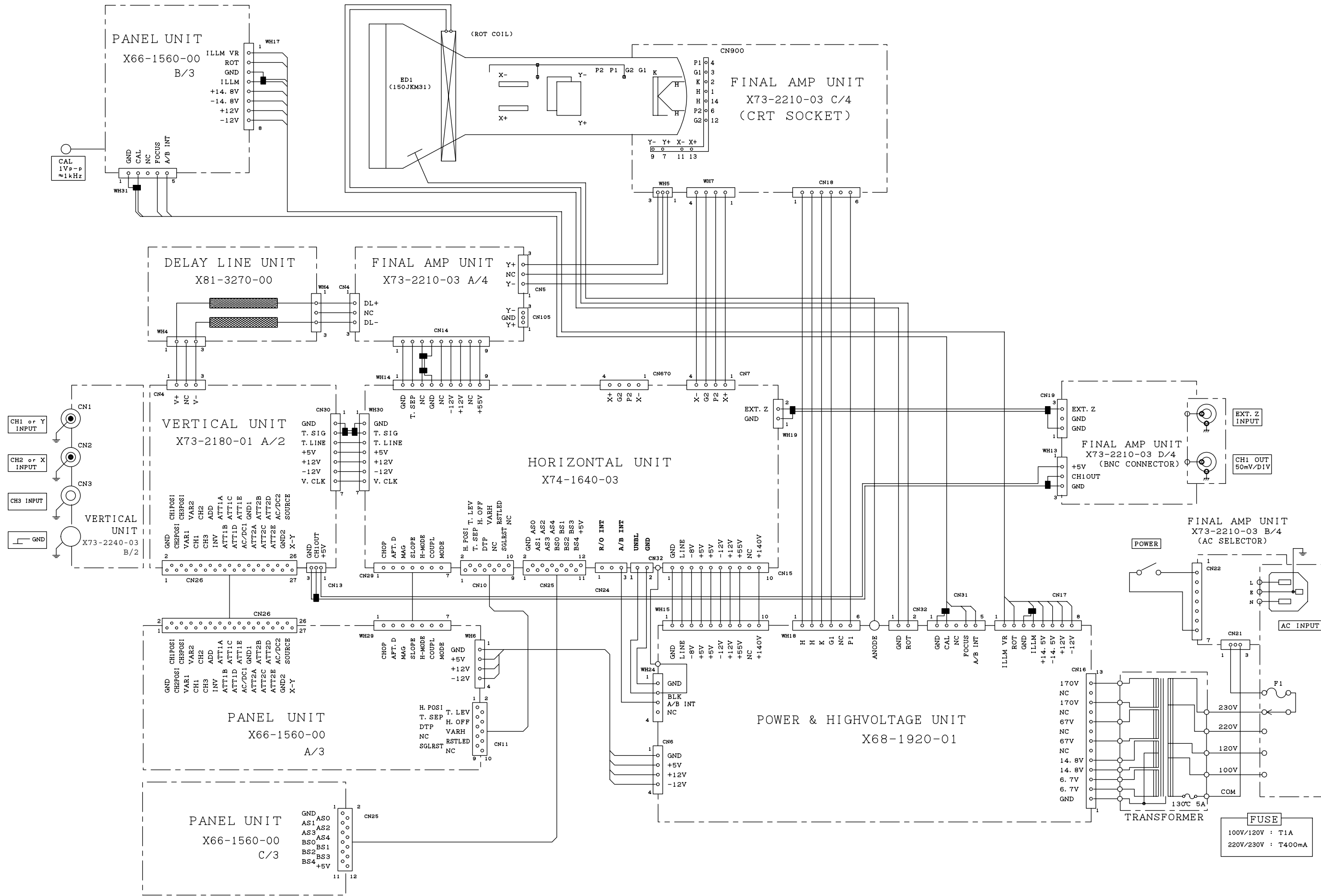
Ref. No	Parts No.	Name & Description				
R119	RK73FB2A162J	RES. CHIP (2*1.25)	1.6K	5%	1/10W	
R120	RK73FB2A301J	RES. CHIP (2*1.25)	300	5%	1/10W	
R121	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R122	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R123	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R124	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R125	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R126	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R127	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R128	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R129	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R130	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R131	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R132	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R133	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R134	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R135	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R136	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R151	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W	
R152	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W	
R153	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W	
R154	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W	
R155	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W	
R156	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W	
R157	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W	
R158	RK73FB2A472J	RES. CHIP (2*1.25)	4.7K	5%	1/10W	
R201	RK73FB2A222J	RES. CHIP (2*1.25)	2.2K	5%	1/10W	
R203	RK73FB2A103J	RES. CHIP (2*1.25)	10K	5%	1/10W	
R204	RK73FB2A330J	RES. CHIP (2*1.25)	33	5%	1/10W	
R702	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R703	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R704	RK73FB2A101J	RES. CHIP (2*1.25)	100	5%	1/10W	
R706	RK73FB2A104J	RES. CHIP (2*1.25)	100K	5%	1/10W	
X1	L77-2520-05	CRYSTAL RESONATOR				

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

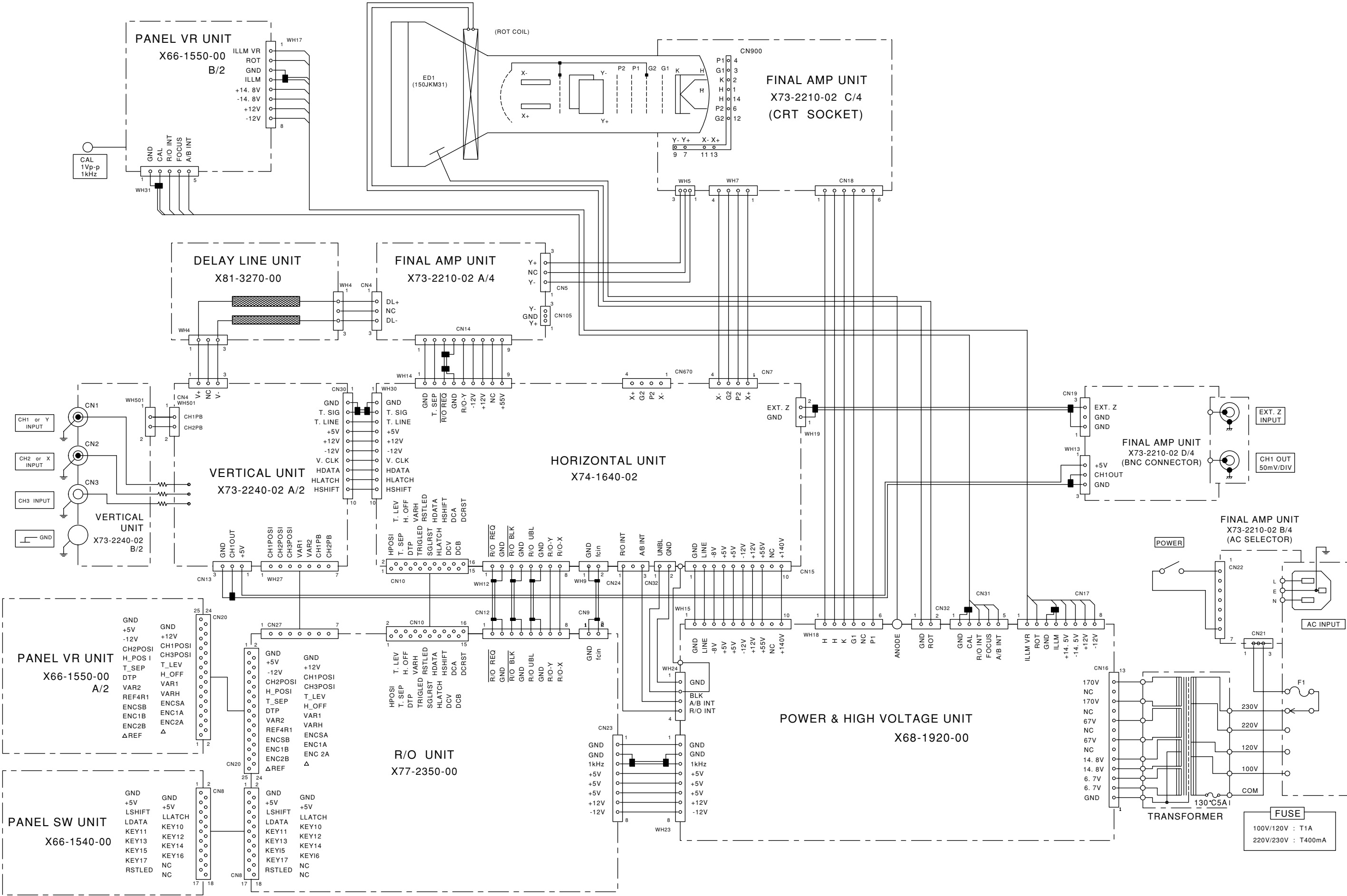
 indicates safety critical components .

# LS 8105A OVER ALL

1  
2  
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7

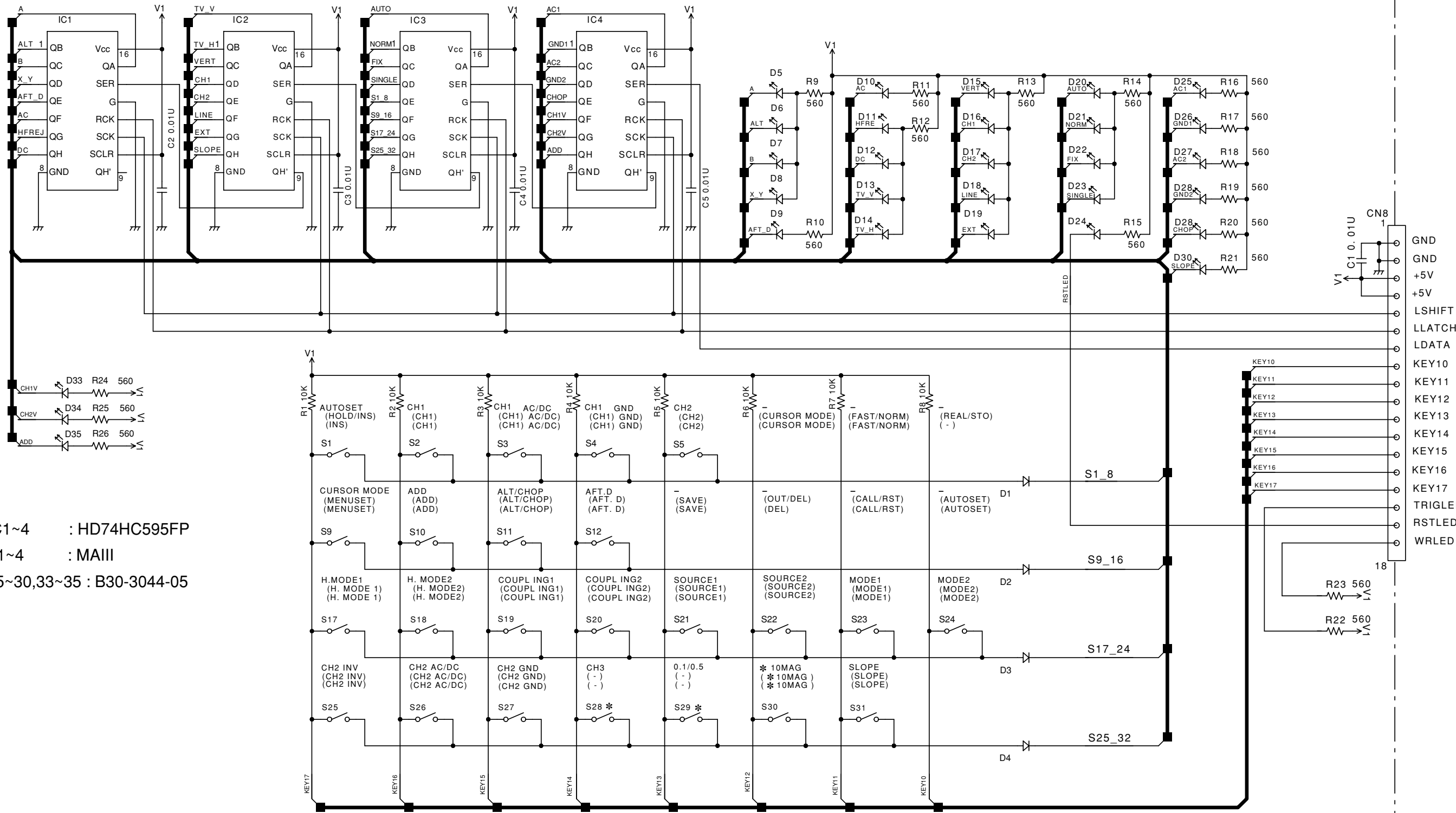


LS 8106A OVER ALL



# SCHEMATIC DIAGRAM

LS 8106A  
PANEL SWITCH UNIT (X66-1540-00)

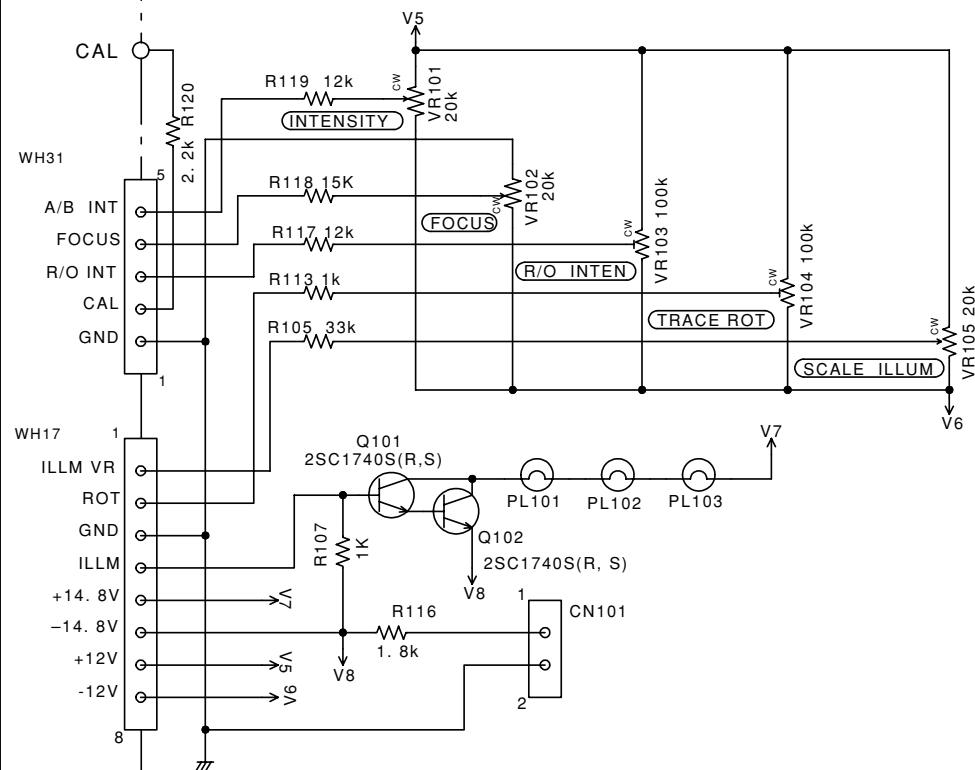


## SCHEMATIC DIAGRAM

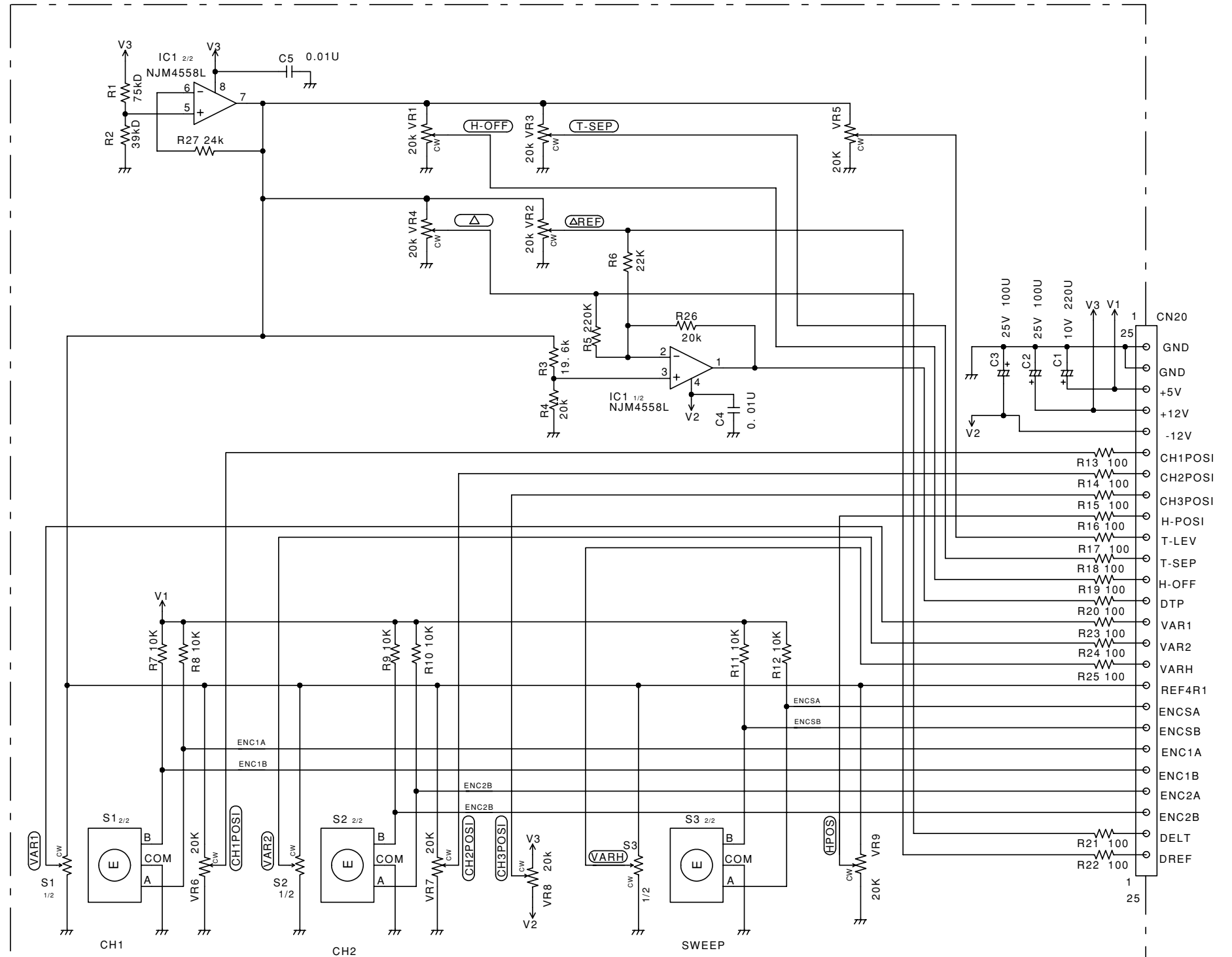
**LS 8106A**  
**PANEL VR UNIT (X66-1550-00)**

IC1 : NJM4558L  
Q101,102 : 2SC1740S(R,S)

**(B/2)**



**(A/2)**





	C150	CN6	R9,12	R16	R51	R150	W63,65,603	X1
-00(LS 8106A)	-	-	18 3W	10 3W	51 1/6W	-	-	-
-01(LS 8105A)	0.01u 100V	USED	24 3W	-	47 1/6W	15K 1/4W	USED	USED



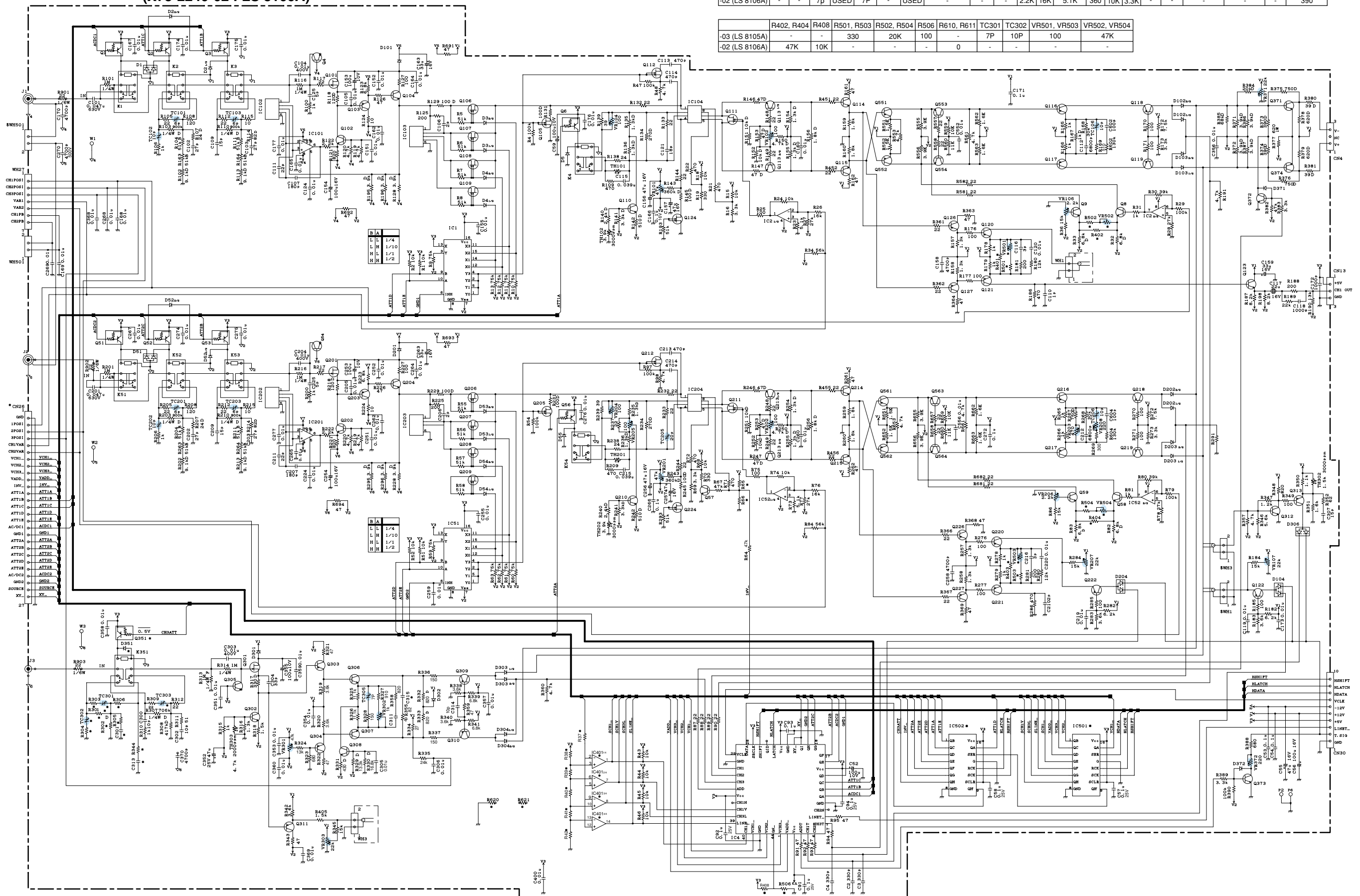


# SCHEMATIC DIAGRAM

## LS 8105A/LS 8106A VERTICAL UNIT (X73-2240-03 : LS 8105A) (X73-2240-02 : LS 8106A)

	C301	C313	C315	CN26	CN30	D351	IC401	IC501, IC502	K351	Q351	R37	R38	R39-R42	R64	R65	R66	R301	R302	R303, R305	R304, R306	R344	R401, R403
-03 (LS 8105A)	100p	5p	8p	-	10P	USED	-	USED	USED	USED	-	-	-	4.7K	75K	5.6K	942K	62.2K	22	470	120	-
-02 (LS 8106A)	-	-	7p	USED	7P	-	USED	-	-	-	2.2K	16K	5.1K	360	10K	3.3K	-	-	-	-	-	390

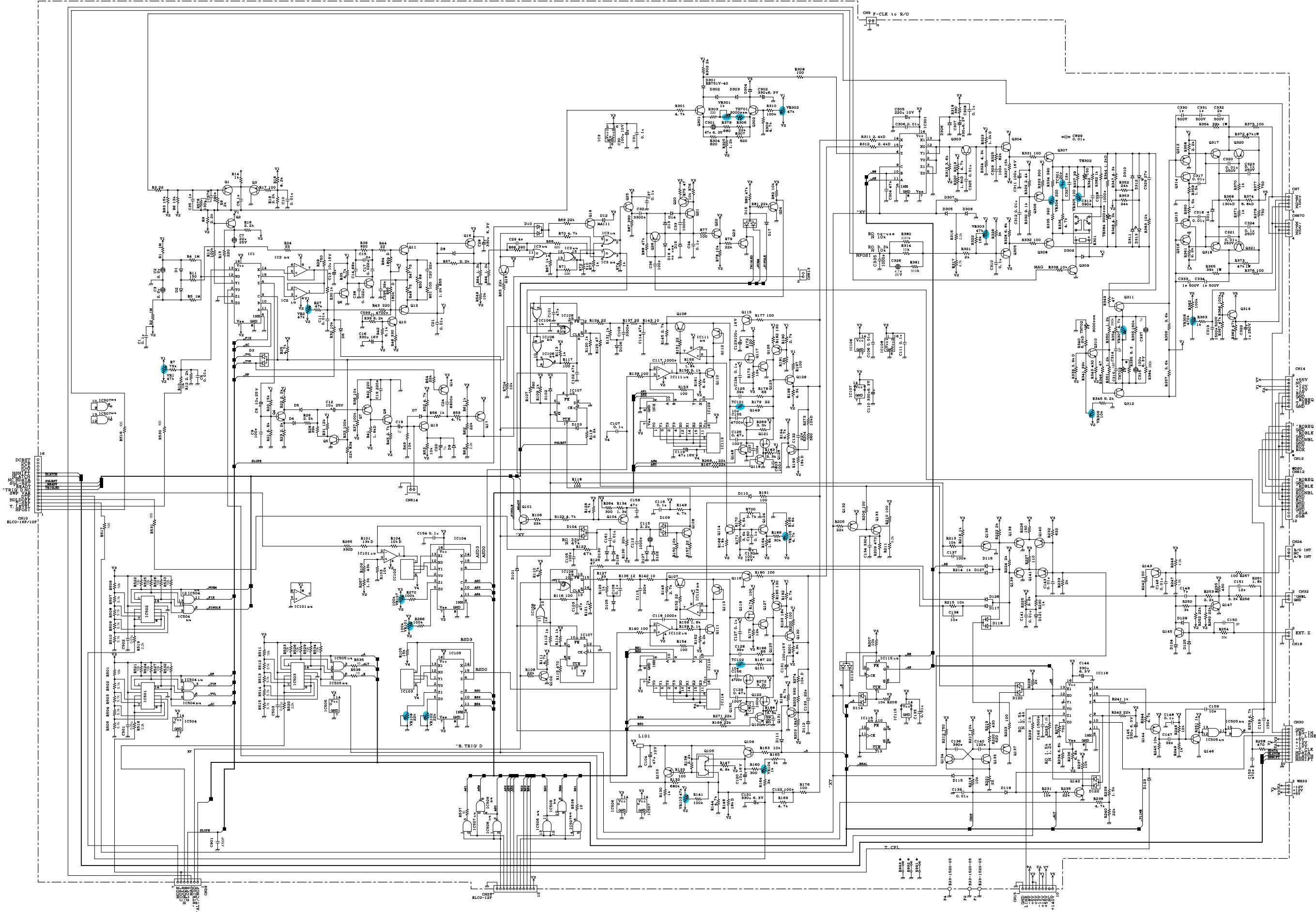
	R402, R404	R408	R501, R503	R502, R504	R506	R610, R611	TC301	TC302	VR501, VR503	VR502, VR504
-03 (LS 8105A)	-	-	330	20K	100	-	7P	10P	100	47K
-02 (LS 8106A)	47K	10K	-	-	-	0	-	-	-	-



LS 8105A

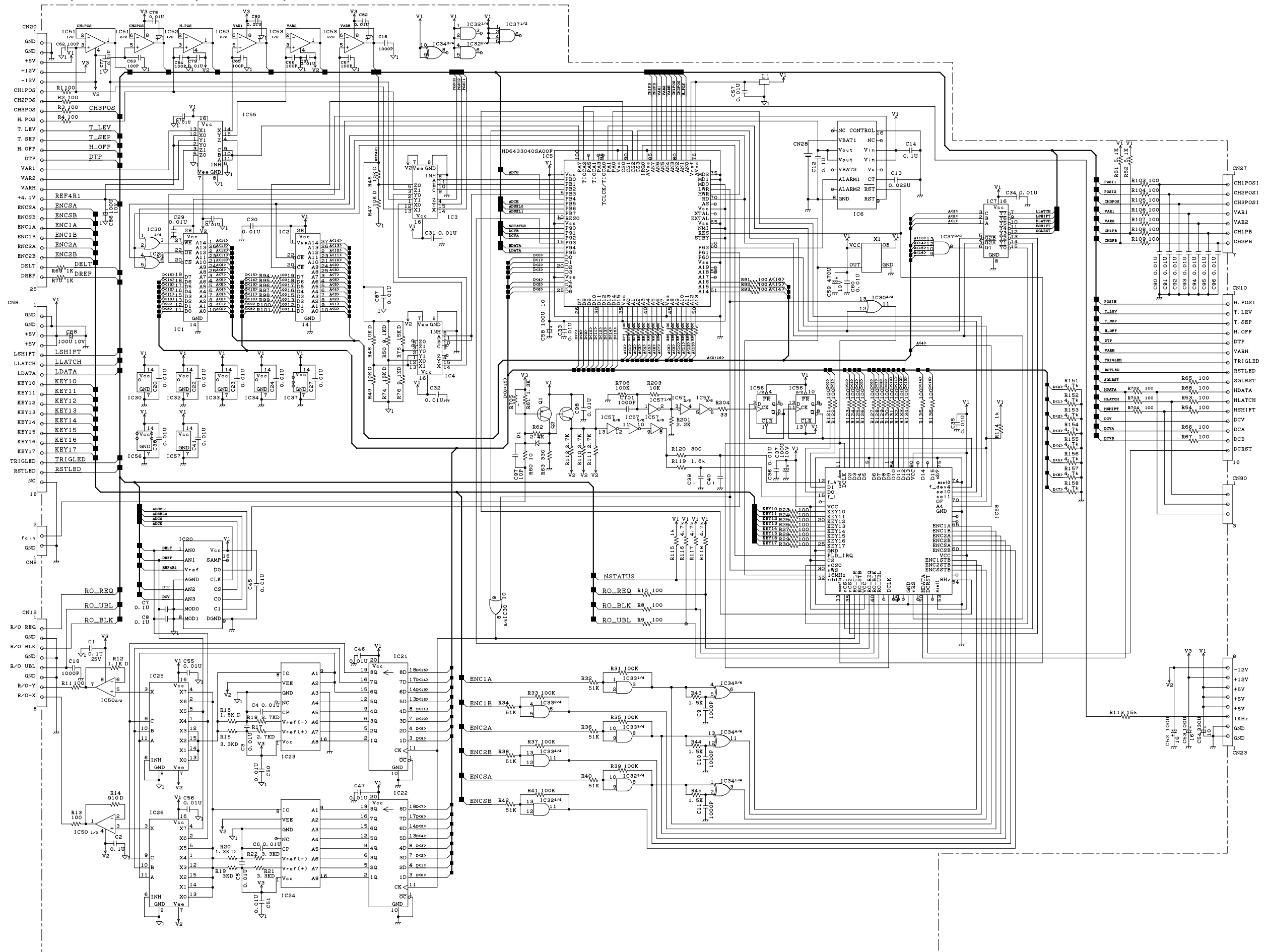
HORIZONTAL UNIT (X74-1640-03)

SCHEMATIC DIAGRAM



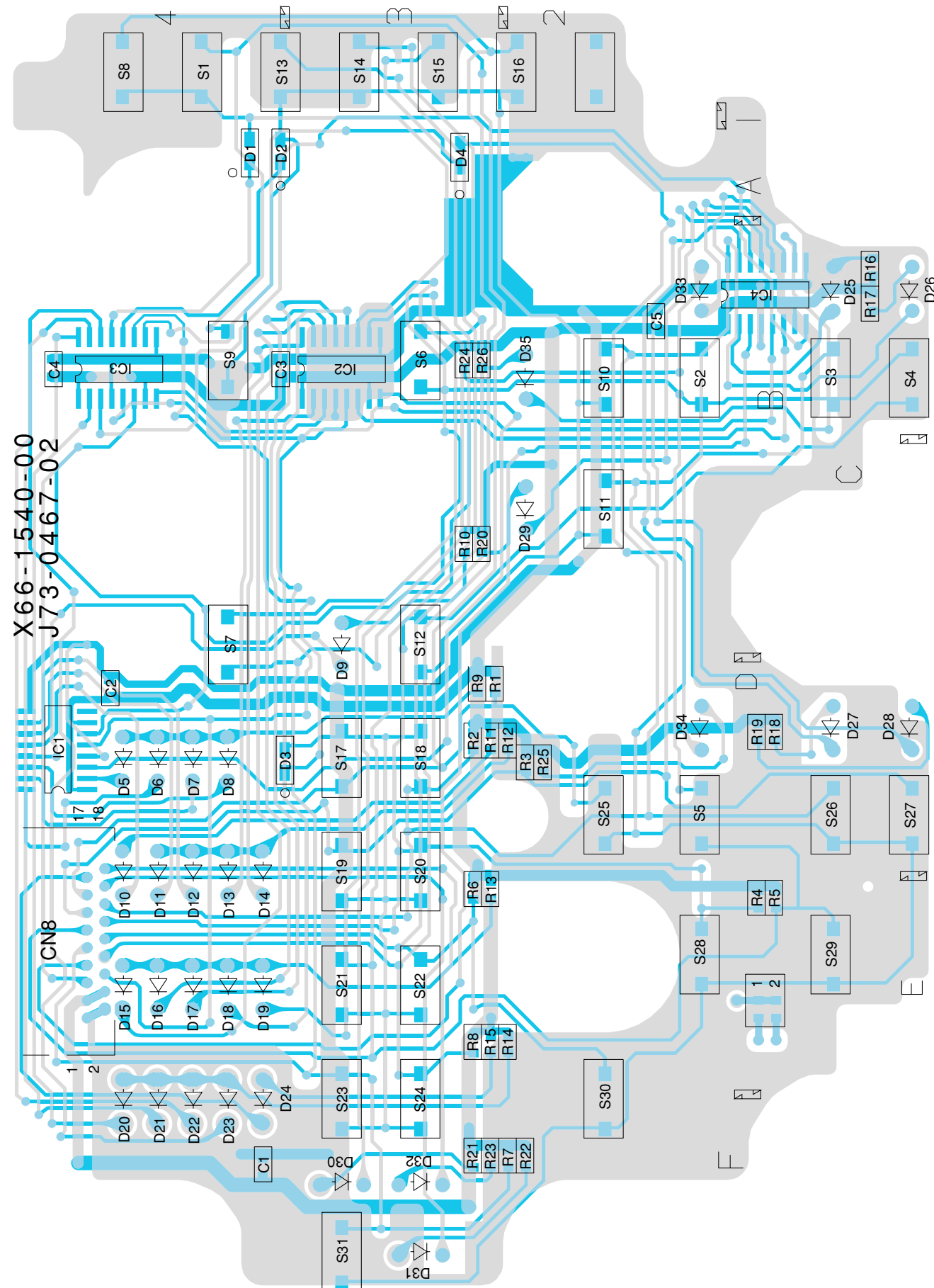


**LS 8106A**  
**HORIZONTAL UNIT (X74-1640-02)**

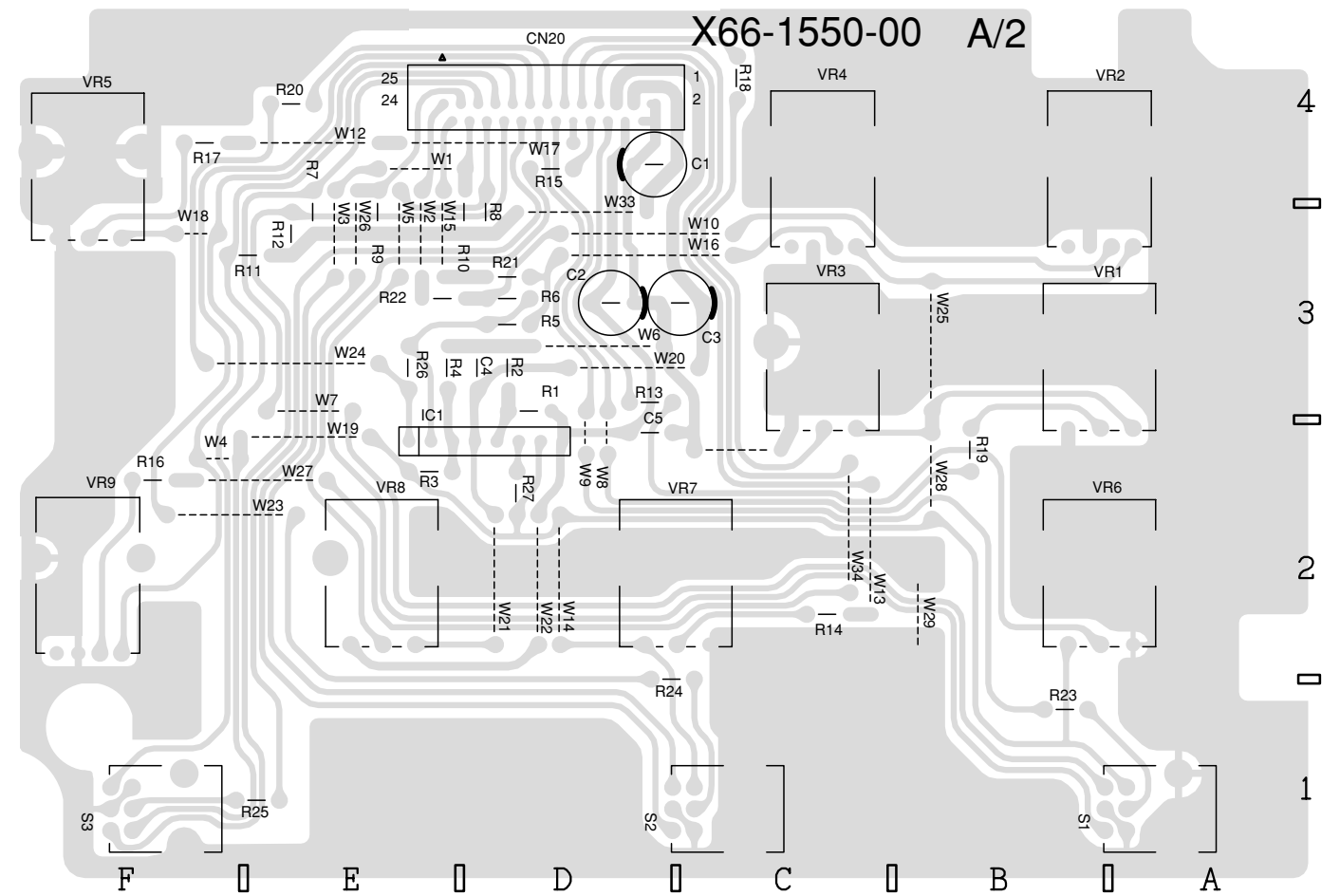
**LS 8106A**  
**(READ OUT UNIT (X77-2350-00))****SCHEMATIC DIAGRAM**

PC BOARD (Component side view)

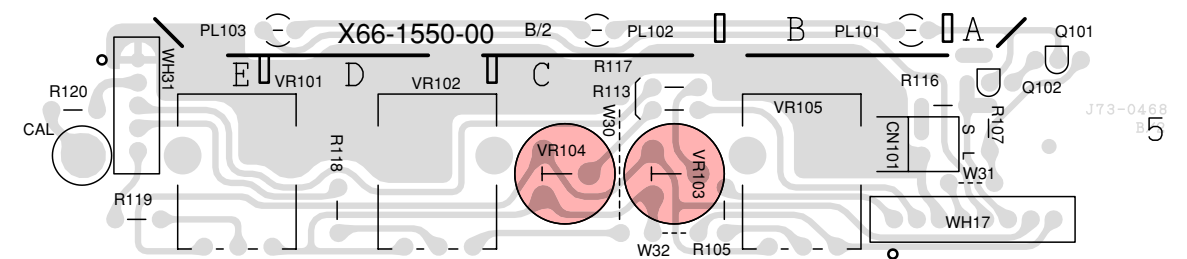
PANEL SW UNIT (X66-1540-00)



PANEL VR UNIT (X66-1550-00 A/2)

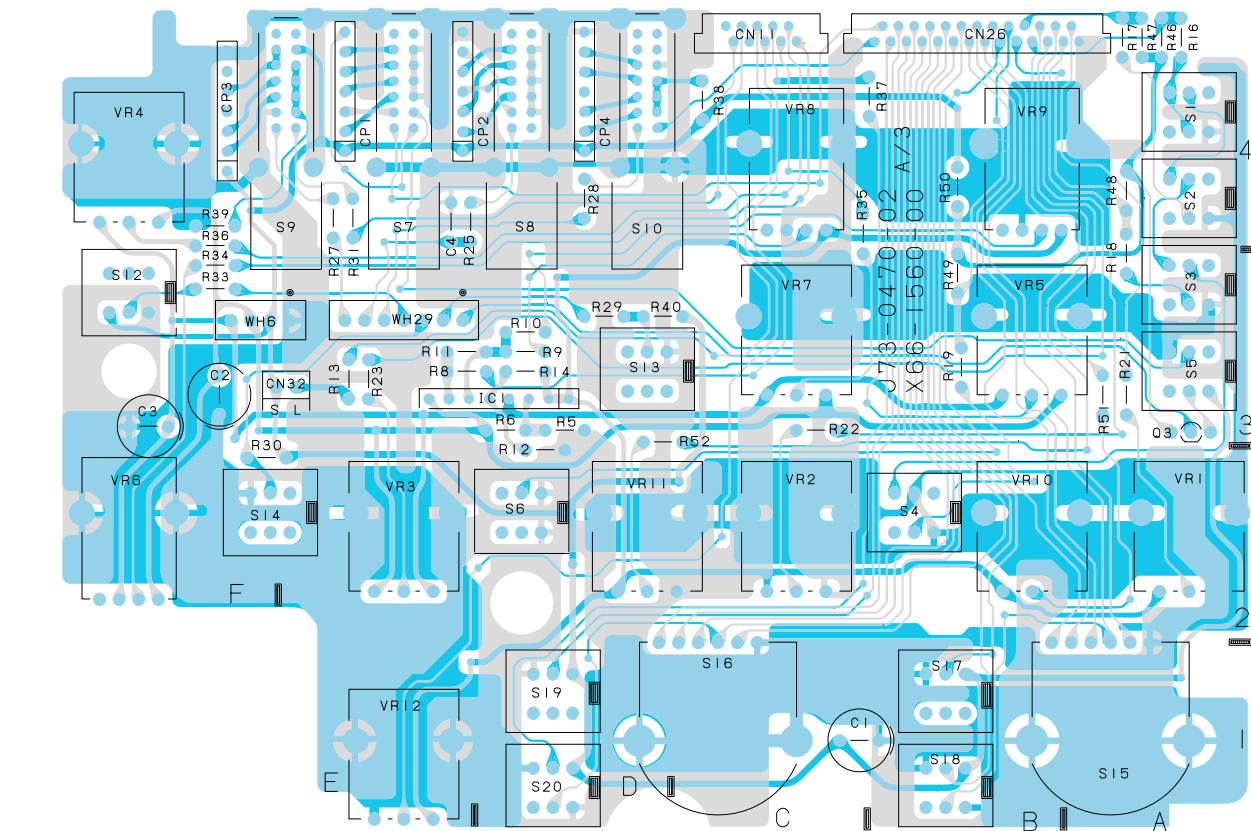


(B/2)

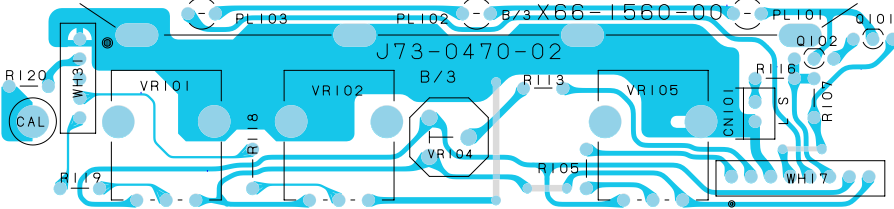


PC BOARD (Component side view)

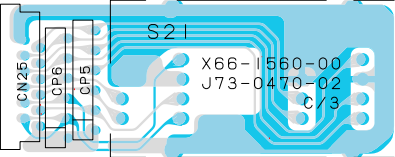
PANEL UNIT (X66-1560-00 A/3)



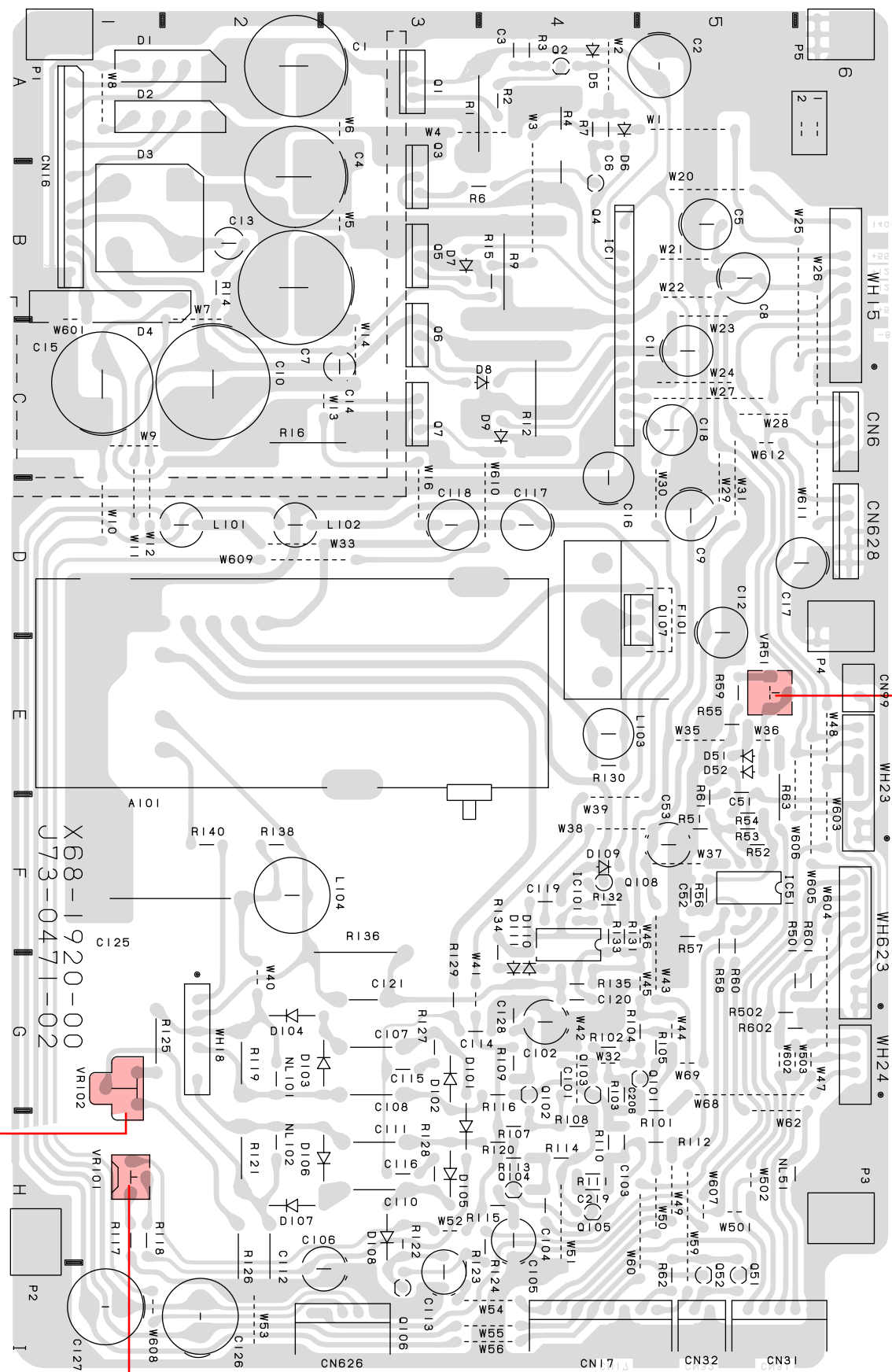
(B/3)



(C/3)



POWER & HIGH VOLTAGE UNIT (X68-1920-01)



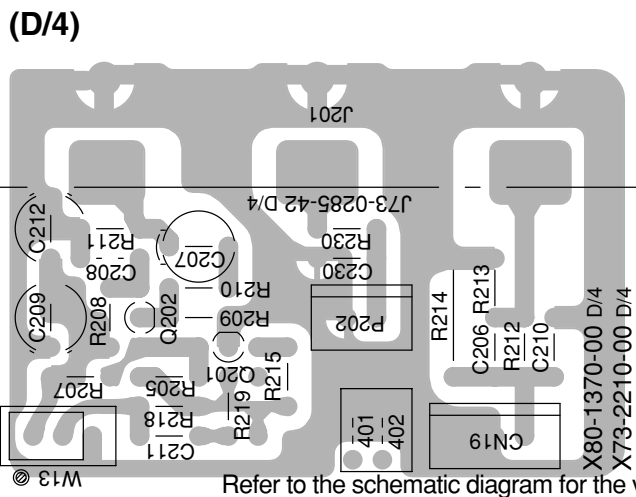
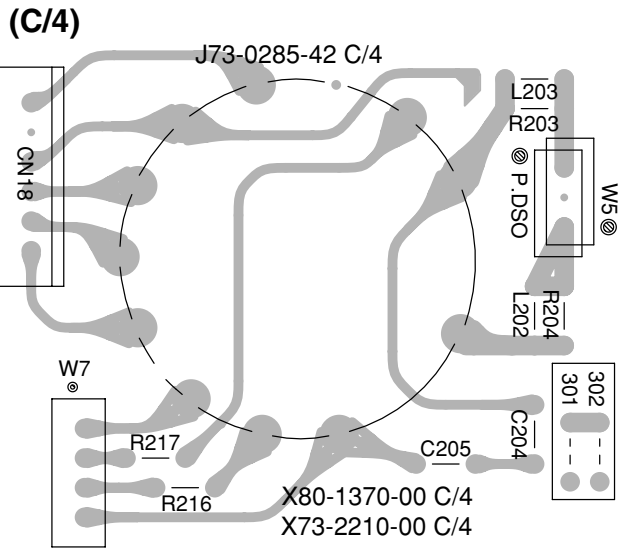
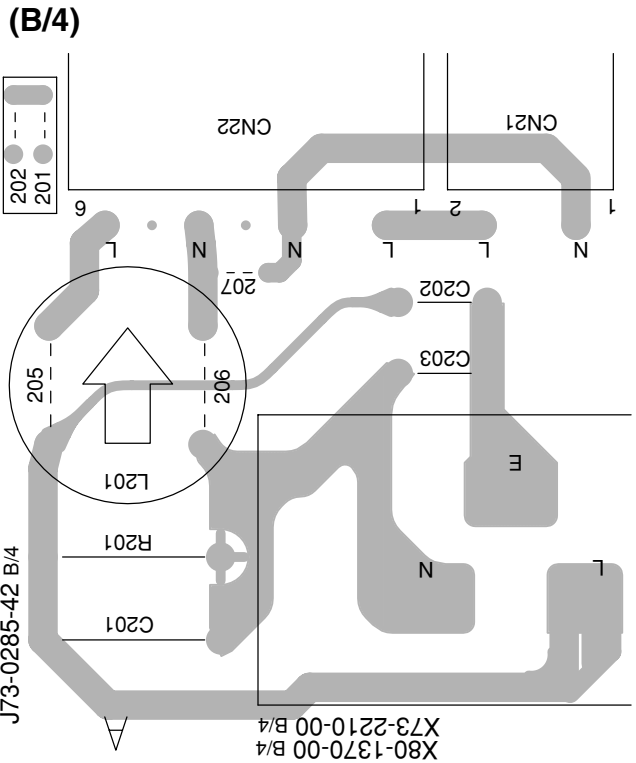
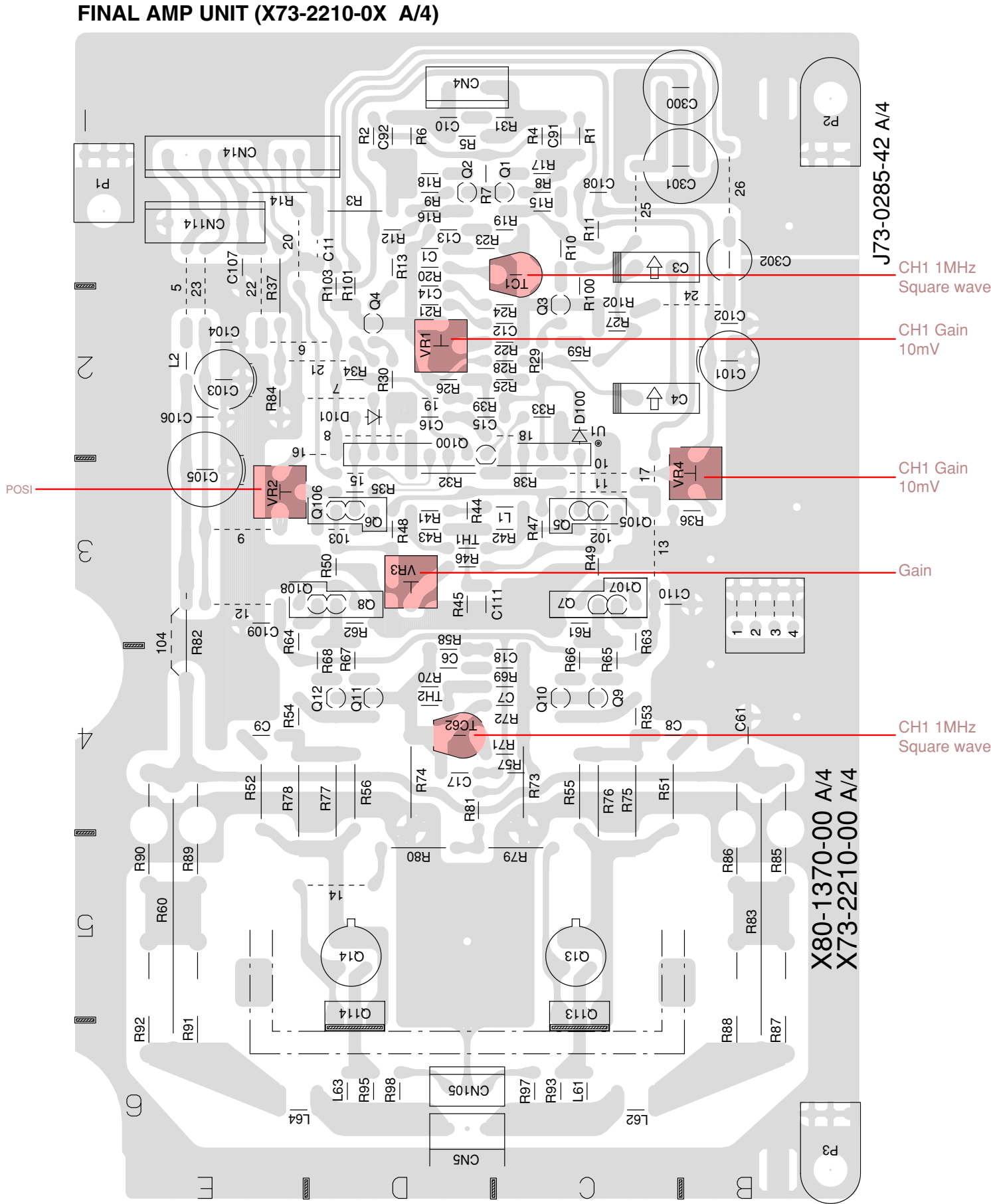
Focus center  
and ASTIG

CAL  
Voltage

Intensity

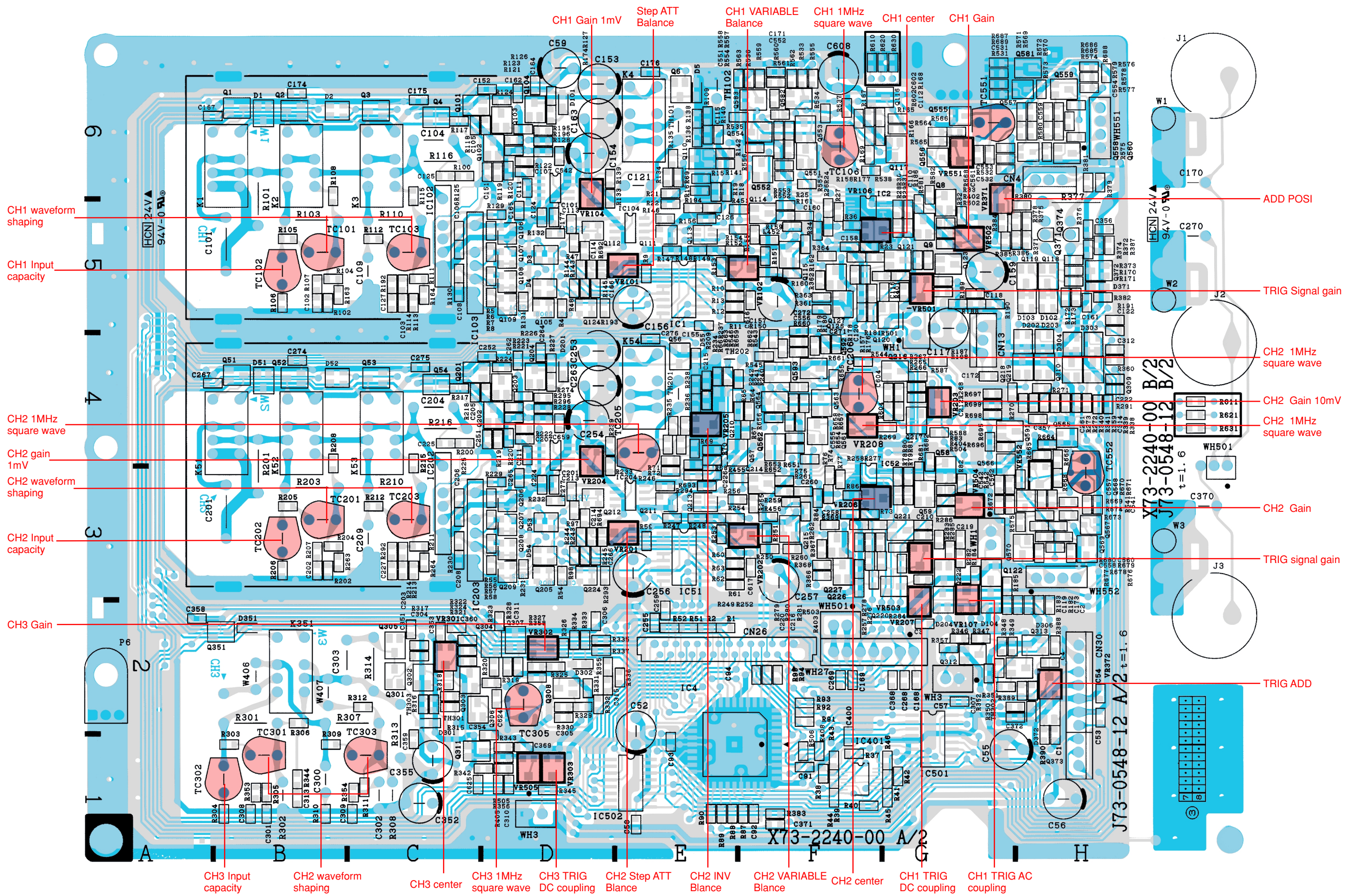


PC BOARD (Component side view)





PC BOARD (Component side view) PRE AMP UNIT (X73-2240-0X)



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

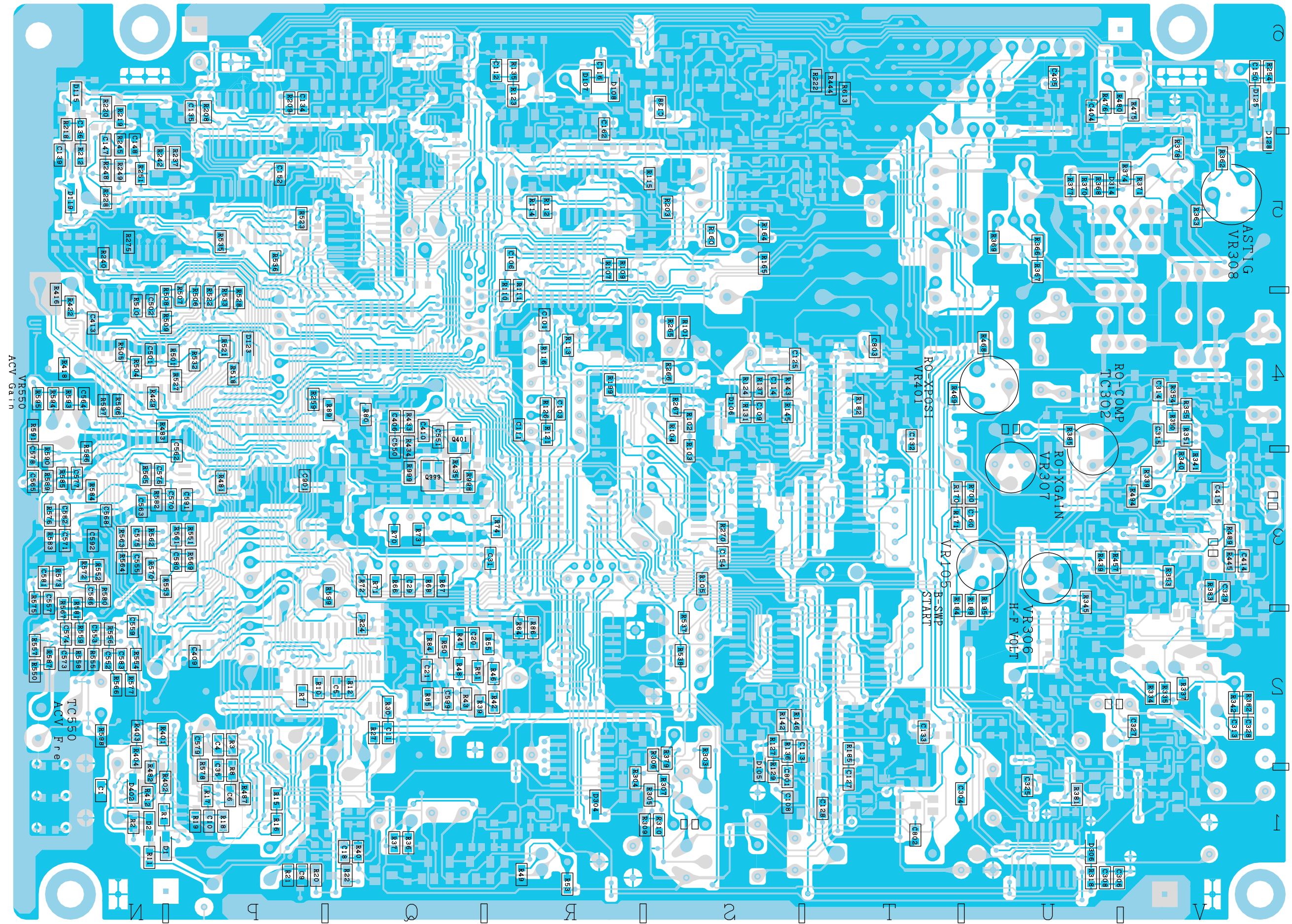






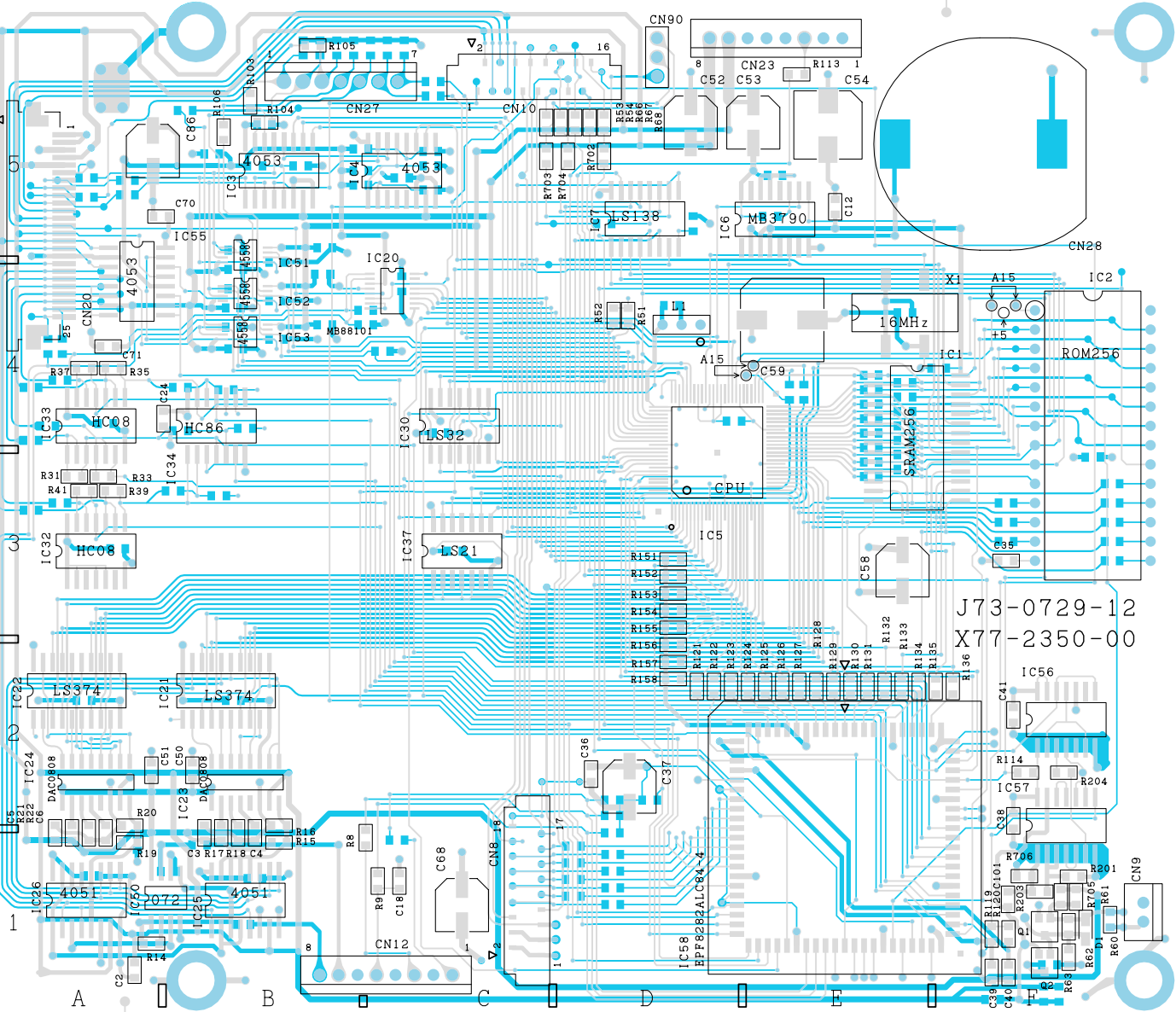
# PC BOARD (Component side view)

## HORIZONTAL UNIT (X74-1640-0X B/2)

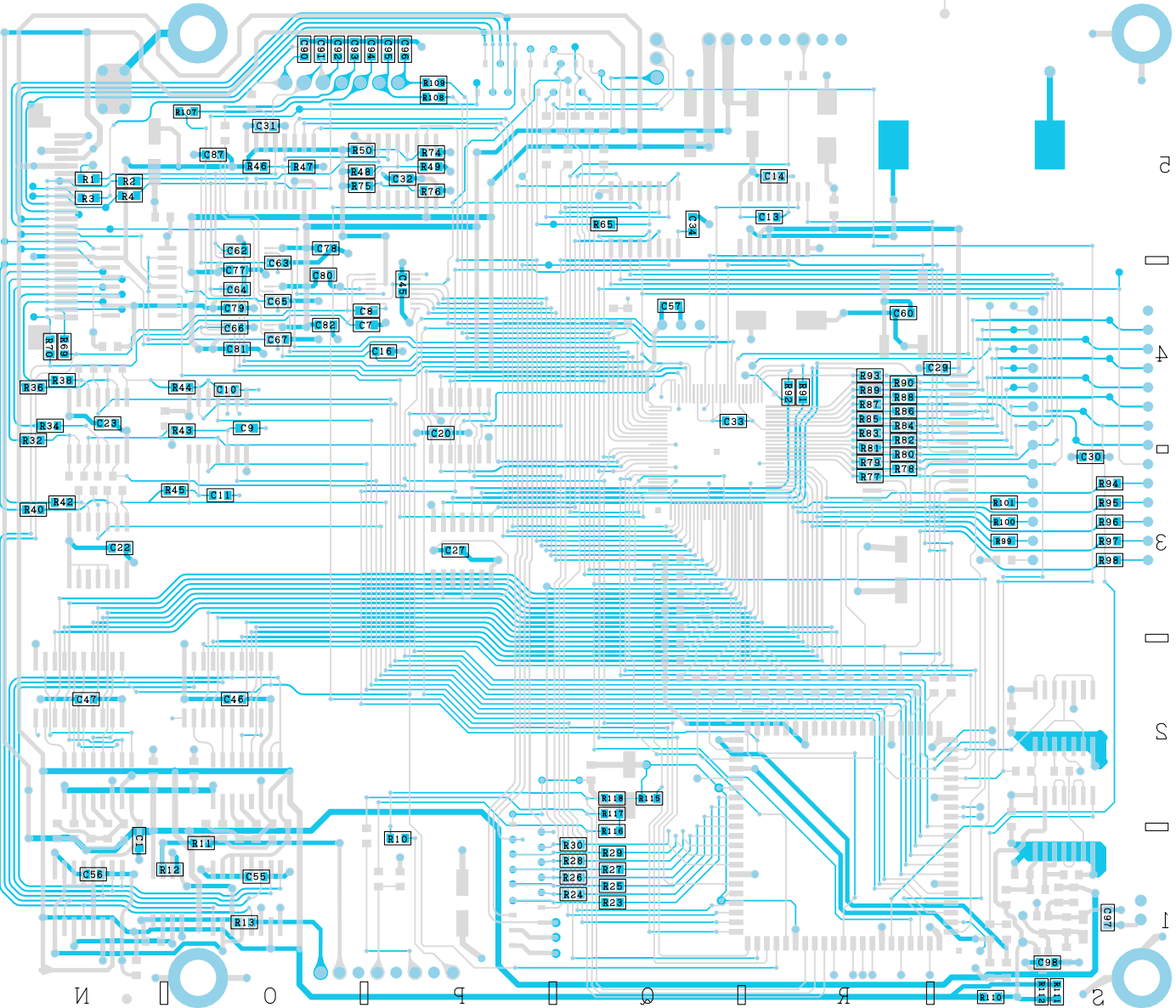


PC BOARD (Component side view)

READ OUT UNIT (X77-2350-00 A/2)



READ OUT UNIT (X77-2350-00 B/2)



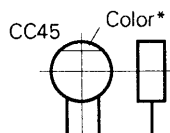
# LS 8105A/LS 8106A

## PARTS DESCRIPTIONS

### CAPACITORS

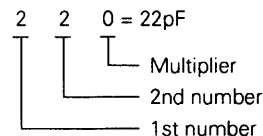
CC 45 TH 1H 220 J  
1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc.  
2 = Shape ... round, square, ect.  
3 = Temp. coefficient  
4 = Voltage rating  
5 = Value  
6 = Tolerance



#### Capacitor value

010 = 1pF  
100 = 10pF  
101 = 100pF  
102 = 1000pF = 0.001μF  
103 = 0.01μF



#### Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

#### Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF - 10 ~ +50 Less than 4.7μF -10 ~ +75

#### (Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

#### Voltage rating

2nd word 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

#### Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J  
1 2 3 4 5 6 7  
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z  
1 2 3 4 5 6 7  
(Chip) (B, F)

Refer to the table above.

1 = Type  
2 = Shape  
3 = Dimension  
4 = Temp. coefficient  
5 = Voltage rating  
6 = Value  
7 = Tolerance

#### Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

### RESISTORS

#### Chip resistor (Carbon)

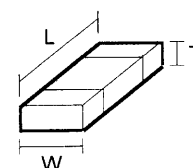
(EX) R K 7 3 E B 2 B 0 0 0 J  
1 2 3 4 5 6 7  
(Chip) (B, F)

#### Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J  
1 2 3 4 5 6 7

- 1 = Type  
2 = Shape  
3 = Dimension  
4 = Temp. coefficient  
5 = Rating wattage  
6 = Value  
7 = Tolerance

#### Dimension



#### Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

#### Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

# LS 8105A/LS 8106A

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