REGULATED DC POWER SUPPLY

PW-A SERIES

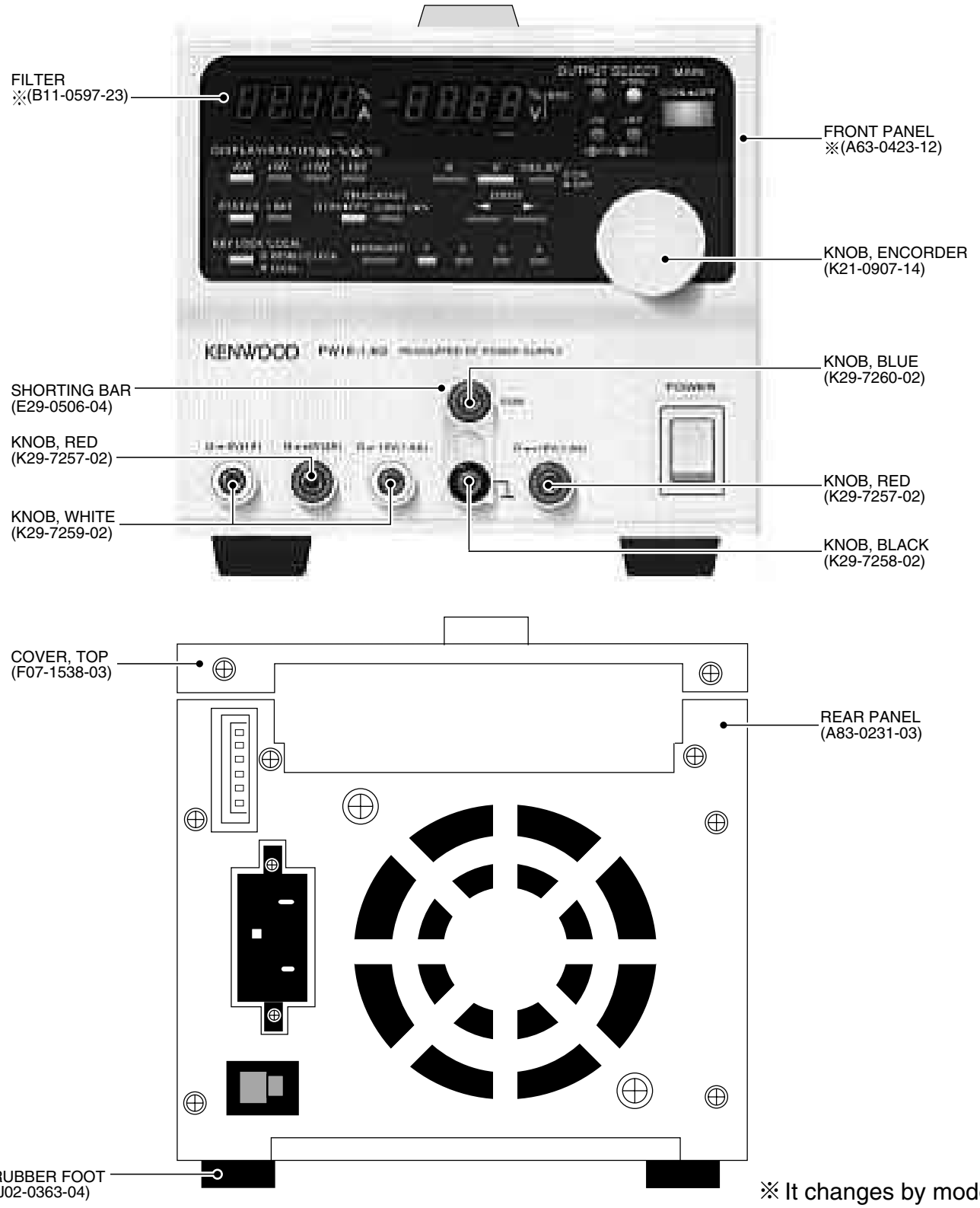
SERVICE MANUAL

KENWOOD

KENWOOD TMI CORPORATION

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※ It changes by model.

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WARNING

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

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SPECIFICATIONS

pecifications of PW18-1.8AQ

ITEMS	A Channel	B Channel	C Channel	D Channel
Output voltage	0 to +18 V	0 to -18 V	0 to +8 V	0 to -6 V
Voltage setting resolution	10 mV		1 mV	
Voltage setting accuracy	±(0.5% SET +20 mV)		±(0.5% SET +5 mV)	
	At 23 ±5℃ after 30 - minute aging			
Output current	0 to +1.8 A	0 to 1.8 A	0 to +2 A	0 to -1 A
Current setting resolution	1 mA			
Current setting accuracy	±(1% SET +5 mA)			
	At 23 ±5 ℃ after 30 - minute aging			
CV characteristics				
Input variation	1 mV			
	(For ±10% variation of source voltage)			
Load variation	2 mV			
	(For 0 to 100% variation)			
Ripple noise	0.5 mV			
	Measured in the RMS method using 5 Hz to 1 MHz signals.			
Transient response	50 μs (typ.)			
Temperature coefficient	60 ppm/℃ (at rated output voltage)			
CC characteristics				
Input variation	2 mA			
	(For ±10% variation of source voltage)			
Load variation	5 mA			
	(For 0 to 100% variation)			
Ripple noise	1.5 mA			
	Measured in the RMS method using 5 Hz to 1 MHz signals.			
Temperature coefficient	150 ppm/℃ (at rated output current)			
Voltage & current indication				
Voltage indicator	4 - digit red LEDs, lowest digit: 10 mV		4 - digit red LEDs, lowest digit: 1 mV	
Voltage indication accuracy	±(0.5% rdg + 20 mV)/ 10mV		±(0.5% rdg + 5 mV)/ 1mV	
& resolution	At 23 ±5℃ after 30 - minute aging			
Current indicator	4 - digit red LEDs, lowest digit: 1 mA			
Current indication accuracy	±(1% rdg + 5 mA)/ 1 mA			
& resolution	At 23 ±5℃ after 30 - minute aging			
Voltage & current indication ange	-2.5% FS to +102.5% FS /0% FS to +102.5% FS			
Common	Common			

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SPECIFICATIONS

cifications of PW18-1.3AT(S) ATS is with a remote sensing terminal to C channel

ITEMS	A Channel	B Channe	C Channel
out voltage	0 to +18 V	0 to -18 V	0 to +6 V
age setting resolution	10 mV		1 mV
age setting accuracy	±(0.5% SET +20 mV)		±(0.5% SET +5 mV)
	At 23 ±5 ℃ after 30 -minute aging		
out current	0 to +1.3 A	0 to -1.3 A	0 to +5A
rent setting resolution	1 mA		
rent setting accuracy	±(1% SET +5 mA)		
	At 23 ±5℃ after 30 -minute aging		
characteristics			
t variation	1 mV		
	(For ±10% variation of source voltage)		
d variation	2 mV		
	(For 0 to 100% variation)		
le noise	0.5 mV		
	Measured in the RMS method using 5 Hz to 1 MHz signals.		
nsient response	50 µs (typ.)		
perature coefficient	60 ppm/℃ (at rated output voltage)		
characteristics			
t variation	2 mA		
	(For ±10% variation of source voltage)		
d variation	5 mA		
	(For 0 to 100% variation)		
le noise	1.5 mA		
	Measured in the RMS method using 5 Hz to 1 MHz signals.		
perature coefficient	150 ppm/℃ (at rated output current)		
age & current indication			
age indicator	4-digit red LEDs, lowest digit: 10 mV		4-digit red LEDs, lowest digit: 1 mV
age indication accuracy esolution	±(0.5% rdg + 20 mV)/ 10 mV		±(0.5% rdg+5mV)/1 mV
	At 23 ±5℃ after 30-minute aging		
rent indicator	4-digit red LEDs, lowest digit: 1 mA		
rent indication accuracy esolution	±(1% rdg + 5 mA)/ 1 mA		
	At 23 ±5℃ after 30-minute aging		
age & current indication ge	-2.5% FS to +102.5% FS /0% FS to +102.5%		
mon	Common		Independent
er consumption	Approx. 200 W, 255 VA		

SPECIFICATIONS

pecifications of PW18-3AD

ITEMS	A Channel	B Channel
Output voltage	0 to +18 V	0 to -18 V
Voltage setting resolution	10 mV	
Voltage setting accuracy	±(0.5% SET +20 mV)	
	At 23 ±5℃ after 30-minute aging	
Output current	0 to +3 A	0 to -3A
Current setting resolution	1 mA	
Current setting accuracy	±(1% SET +5 mA)	
	At 23 ±5℃ after 30-minute aging	
CV characteristics		
Input variation	1 mV	
	(For ±10% variation of source voltage)	
Load variation	2 mV	
	(For 0 to 100% variation)	
Ripple noise	0.5 mV	
	Measured in the RMS method using 5 Hz to 1 MHz signals.	
Transient response	50 μs (typ.)	
Temperature coefficient	60 ppm/℃ (at rated output voltage)	
CC characteristics		
Input variation	2 mA	
	(For ±10% variation of source voltage)	
Load variation	5 mA	
	(For 0 to 100% variation)	
Ripple noise	1.5 mA	
	Measured in the RMS method using 5 Hz to 1MHz signals.	
Temperature coefficient	150 ppm/℃ (at rated output current)	
Voltage & current indication		
Voltage indicator	4-digit red LEDs, lowest digit: 10 mV	
Voltage indication accuracy & resolution	±(0.5% rdg + 20 mV)/ 10 mV	
	At 23 ±5℃ after 30-minute aging	
Current indicator	4-digit red LEDs, lowest digit: 1 mA	
Current indication accuracy & resolution	±(1% rdg + 5 mA)/ 1 mA	
	At 23 ±5℃ after 30-minute aging	
Voltage & current indicatio ange	-2.5% FS to +102.5% FS /0% FS to +102.5%	
Common	Common	
Power consumption	Approx. 215 W, 274 VA	

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SPECIFICATIONS

cifications of PW36-1.5AD

ITEMS	A Channel	B Channel
out voltage	0 to +36 V	0 to -36 V
age setting resolution	10 mV	
age setting accuracy	±(0.5% SET +20 mV)	
	At 23 ±5 ℃ after 30-minute aging	
out current	0 to +1.5 A	0 to -1.5 A
rent setting resolution	1 mA	
rent setting accuracy	±(1% SET +5 mA)	
	At 23 ±5 ℃ after 30-minute aging	
characteristics		
ut variation	1 mV	
	(For ±10% variation of source voltage)	
d variation	2 mV	
	(For 0 to 100% variation)	
ple noise	0.5 mV	
	Measured in the RMS method using 5 Hz to 1 MHz signals.	
nsient response	50µs (typ.)	
perature coefficient	60 ppm/℃ (at rated output voltage)	
characteristics		
ut variation	2 mA	
	(For ±10% variation of source voltage)	
d variation	5 mA	
	(For 0 to 100% variation)	
ple noise	1.5 mA	
	Measured in the RMS method using 5 Hz to 1MHz signals.	
perature coefficient	150 ppm/℃ (at rated output current)	
tage & current indication		
age indicator	4-digit red LEDs, lowest digit: 10 mV	
age indication accuracy	±(0.5% rdg + 20 mV)/ 10 mV	
esolution	At 23 ±5℃ after 30 -minute aging	
rent indicator	4-digit red LEDs, lowest digit: 1 mA	
rent indication accuracy	±(1% rdg + 5 mA)/ 1 mA	
esolution	At 23 ±5℃ after 30 -minute aging	
age & current indicatio ge	-2.5% FS to +102.5% FS /0% FS to +102.5%	
mmon	Common	
wer consumption	Approx. 192 W, 250 VA	

SPECIFICATIONS

pecifications of PW18-3ADP

ITEMS	A Channel	B Channel
Output voltage	0 to + 18 V	0 to + 18 V
Voltage setting resolution	10 mV	
Voltage setting accuracy	± (0.5% SET +20mV)	
	At 23 ±5 ℃ after 30 - minute aging	
Output current	0 to +3A	0 to +3A
Current setting resolution	1 mA	
Current setting accuracy	± (1% SET +5mA)	
	At 23 ±5 ℃ after 30 - minute aging	
CV characteristics		
Input variation	1 mV	
	(For ±10% variation of source voltage)	
Load variation	2 mV	
	(For 0 to 100% variation)	
Ripple noise	0.5 mV	
	Measured in the RMS method using 5 Hz to 1 MHz signals.	
Transient response	50 μs (typ.)	
Temperature coefficient	60 ppm/℃ (at rated output voltage)	
CC characteristics		
Input variation	2 mA	
	(For ±10% variation of source voltage)	
Load variation	5 mA	
	(For 0 to 100% variation)	
Ripple noise	1.5 mA	
	Measured in the RMS method using 5 Hz to 1 MHz signals.	
Temperature coefficient	150 ppm/℃ (at rated output current)	
Voltage & current indication		
Voltage indicator	4 - digit red LEDs, lowest digit: 10mV	
Voltage indication accuracy & esolution	±(0.5% rdg + 20 mV) /10mV	
	At 23 ±5 ℃ after 30 - minute aging	
Current indicator	4 - digit red LEDs, lowest digit: 1mA	
Current indication accuracy & esolution	±(1% rdg + 5mA)/ 1mA	
	At 23 ±5 ℃ after 30 - minute aging	
Voltage & current indication ange	-2.5% FS to + 102.5% FS/0% FS to + 102.5% FS	
Common	Common	
Power consumption	Approx. 215W, 274 VA	

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SPECIFICATIONS

ifications of PW18-2ATP

ITEMS	A Channel	B Channel	C Channel
put voltage	0 to +36 V	0 to +18 V	0 to +8 V
age setting resolution	10 mV		1 mV
age setting accuracy	± (0.5% SET +20mV)		± (0.5% SET +5mV)
	At 23 ±5 ℃ after 30 - minute aging		
put current	0 to +1A	0 to +2A	0 to +2A
ent setting resolution	1 mA		
ent setting accuracy	± (1% SET +5mA)		
	At 23 ±5 ℃ after 30 - minute aging		
characteristics			
t variation	1 mV		
	(For ±10% variation of source voltage)		
d variation	2 mV		
	(For 0 to 100% variation)		
ple noise	0.5 mV		
	Measured in the RMS method using 5 Hz to 1 MHz signals.		
nsient response	50 μs (typ.)		
mperature coefficient	60 ppm/℃ (at rated output voltage)		
characteristics			
t variation	2 mA		
	(For ±10% variation of source voltage)		
d variation	5 mA		
	(For 0 to 100% variation)		
ple noise	1.5 mA		
	Measured in the RMS method using 5 Hz to 1 MHz signals.		
mperature coefficient	150 ppm/℃ (at rated output current)		
tage & current indication			
age indicator	4 - digit red LEDs, lowest digit: 10mV		4 - digit red LEDs, lowest digit: 1mV
ent indication accuracy & lution	±(0.5% rdg + 20 mV) /10mV		±(0.5% rdg + 5 mV)/1mV
	At 23 ±5 ℃ after 30 - minute aging		
ent indicator	4 - digit red LEDs, lowest digit: 1mA		
ent indication accuracy & lution	±(1% rdg + 5mA)/ 1mA		
	At 23 ±5 ℃ after 30 - minute aging		
age & current indication ge	-2.5% FS to + 102.5% FS/0% FS to + 102.5% FS		
mmon	Common		Independent
er consumption	Approx. 191W, 242 VA		

SPECIFICATIONS

pecifications of PW16-5ADP

ITEMS	A Channel	B Channel
Output voltage	0 to +6V	0 to +16V
Voltage setting resolution	1 mV	10 mV
Voltage setting accuracy	±(0.5% SET+5 mV)	±(0.5% SET+20 mV)
	At 23 ±5℃ after 30 - minute aging	
Output current	0 to +3 A	0 to +5 A
Current setting resolution	1 mA	
Current setting accuracy	±(1% SET +5 mA)	
	At 23 ±5℃ after 30 - minute aging	
CV characteristics		
nput variation	1 mV	
	(For ±10% variation of source voltage)	
Load variation	2 mV	
	(For 0 to 100% variation)	
Ripple noise	0.5 mV	
	Measured in the RMS method using 5 Hz to 1 MHz signals.	
Transient response	50 µs (typ.)	
Temperature coefficient	60 ppm/℃ (at rated output voltage)	
CC characteristics		
nput variation	2 mA	
	(For ±10% variation of source voltage)	
Load variation	5 mA	
	(For 0 to 100% variation)	
Ripple noise	1.5 mA	
	Measured in the RMS method using 5 Hz to 1 MHz signals.	
Temperature coefficient	150 ppm /℃ (at rated output current)	
Voltage & current indication		
Voltage indicator	4 - digit red LEDs, lowest digit: 1mV	4 - digit red LEDs, lowest digit: 10mV
Voltage indication accuracy & esolution	±(0.5% rdg + 5 mV)/ 1 mV	±(0.5% rdg + 20 mV)/ 10 mV
	At 23 ±5℃ after 30 - minute aging	
Current indicator	4 - digit red LEDs, lowest digit: 1mA	
Current indication accuracy & esolution	±(1% rdg + 5 mA)/ 1 mA	
	At 23 ±5℃ after 30 - minute aging	
Voltage & current indication ange	-2.5% FS to + 102.5% FS/0% FS to + 102.5% FS	
Common	Common	
Power consumption	Approx. 240 W, 300 VA	

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SPECIFICATIONS

cifications of PW8-3ATP

ITEMS	A Channel	B Channel	C Channel
put voltage	0 to +8 V	0 to +8 V	0 to +18 V
tage setting resolution	1 mV		10 mV
tage setting accuracy	±(0.5% SET +5 mV)		±(0.5% SET +20 mV)
	At 23 ±5°C after 30-minute aging		
put current	0 to +3 A	0 to +3 A	0 to +1.5 A
rent setting resolution	1 mA		
rent setting accuracy	±(1% SET +5 mA)		
	At 23 ±5°C after 30-minute aging		
characteristics			
ut variation	1 mV		
	(For ±10% variation of source voltage)		
d variation	2 mV		
	(For 0 to 100% variation)		
ple noise	0.5 mV		
	Measured in the RMS method using 5 Hz to 1 MHz signals.		
nsient response	50 µs (typ.)		
nperature coefficient	60 ppm/°C (at rated output voltage)		
characteristics			
ut variation	2 mA		
	(For ±10% variation of source voltage)		
d variation	5 mA		
	(For 0 to 100% variation)		
ple noise	1.5 mA		
	Measured in the RMS method using 5Hz to 1 MHz signals.		
nperature coefficient	150 ppm/°C (at rated output current)		
tage & current indication			
tage indication	4- digit red LEDs, lowest digit: 1 mV		4- digit red LEDs, lowest digit: 10 mV
tage indication uracy & resolution	±(0.5% rdg + 5 mV)/ 1 mV		±(0.5% rdg +20 mV) / 10 mV
	At 23 ±5°C after 30-minute aging		
rent indicator	4-digit red LEDs, lowest digit: 1 mA		
rent indication uracy & resolution	±(1% rdg + 5 mA)/ 1 mA		
	At 23 ±5°C after 30-minute aging		
tage & current cation range	-2.5% FS to +102.5% FS /0% FS to +102.5% FS		
mmon	Common		Independent
wer consumption	Approx. 215 W, 270 VA		

SPECIFICATIONS

pecifications of PW26-1AT(S) ATS is with a remote sensing terminal to C channel

ITEMS	A Channel	B Channel	C Channel
Output voltage	0 to +26 V	0 to -26 V	0 to +6 V
Voltage setting resolution	10 mV		1 mV
Voltage setting accuracy	±(0.5% SET +20 mV)		±(0.5% SET +5 mV)
	At 23 ±5°C after 30-minute aging		
Output current	0 to +1 A	0 to -1 A	0 to +5 A
Current setting resolution	1 mA		
Current setting accuracy	±(1% SET +5 mA)		
	At 23 ±5°C after 30-minute aging		
CV characteristics			
nput variation	1 mV		
	(For ±10% variation of source voltage)		
Load variation	2 mV		
	(For 0 to 100% variation)		
Ripple noise	0.5 mV		
	Measured in the RMS method using 5 Hz to 1 MHz signals.		
Transient response	50 µs (typ.)		
Temperature coefficient	60 ppm/°C (at rated output voltage)		
CC characteristics			
nput variation	2 mA		
	(For ±10% variation of source voltage)		
Load variation	5 mA		
	(For 0 to 100% variation)		
Ripple noise	1.5 mA		
	Measured in the RMS method using 5 Hz to 1 MHz signals.		
Temperature coefficient	150 ppm/°C (at rated output current)		
Voltage & current indication			
Voltage indicator	4-digit red LEDs, lowest digit: 10 mV		4-digit red LEDs, lowest digit: 1 mV
Voltage indication accuracy & resolution	±(0.5% rdg + 20 mV)/ 10 mV		±(0.5% rdg + 5 mV)/ 1 mV
	At 23 ±5°C after 30-minute aging		
Current indicator	4-digit red LEDs, lowest digit: 1 mA		
Current indication accuracy & resolution	±(1% rdg + 5 mA)/ 1 mA		
	At 23 ±5°C after 30-minute aging		
Voltage & current ndication range	-2.5% FS to +102.5% FS /0% FS to +102.5% FS		
Common	Common		Independent
Power consumption	Approx. 220 W, 285 VA		

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SPECIFICATIONS

cifications of PW36-1.5ADP

ITEMS	A Channel	B Channel
put voltage	0 to +36 V	0 to +36 V
tage setting resolution	10 mV	
tage setting accuracy	±(0.5% SET +20 mV)	
	At 23 ±5°C after 30-minute aging	
put current	0 to +1.5 A	
rent setting resolution	1 mA	
rent setting accuracy	±(1% SET +5 mA)	
	At 23 ±5°C after 30-minute aging	
characteristics		
ut variation	1 mV	
	(For ±10% variation of source voltage)	
d variation	2 mV	
	(For 0 to 100% variation)	
ple noise	0.5 mV	
	Measured in the RMS method using 5 Hz to 1 MHz signals.	
nsient response	50 µs (typ.)	
mperature coefficient	60 ppm/°C (at rated output voltage)	
characteristics		
ut variation	2 mA	
	(For ±10% variation of source voltage)	
d variation	5 mA	
	(For 0 to 100% variation)	
ple noise	1.5 mA	
	Measured in the RMS method using 5 Hz to 1 MHz signals.	
mperature coefficient	150 ppm/°C (at rated output current)	
tage & current indication		
tage indicator	4-digit red LEDs, lowest digit: 10 mV	
tage indication uracy & resolution	±(0.5% rdg + 20 mV)/ 10 mV	
	At 23 ±5°C after 30-minute aging	
rent indicator	4-digit red LEDs, lowest digit: 1 mA	
rent indication uracy & resolution	±(1% rdg + 5 mA)/ 1 mA	
	At 23 ±5°C after 30-minute aging	
tage & current cation range	-2.5% FS to +102.5% FS /0% FS to +102.5% FS	
mmon	Common	
wer consumption	Approx. 192 W, 250 VA	

SPECIFICATIONS

ommon Specifications of PW-A Series

ITEMS	Rating
et delay time	0.0 to 10.0 seconds
unctions	Described in panels and functions and operation procedures.
rounding	Positive, COM or negative grounding is possible.
rotection	MAIN OUTPUT key is turned off if exhaust air temperature becomes too high.
eat radiation	Forced air cooling. Fan revolution is in proportion to exhaust air temperature.
nput voltage	100, 115, 200 and 230 VAC, 50/60 Hz selectable. Voltage fluctuation : ±10%
perating temperature ange	0 to 40°C
perating humidity range	30 to 85% RH (No dew condensation)
torage temperature range	-20 to +60°C
torage humidity range	20 to 85% RH (No dew condensation)
ielectric strength voltage	Primary - casing : 1500 VAC for 1 minute
	Primary - secondary : 1500 VAC for 1 minute
nsulation resistance	Primary - casing & primary - secondary : 10 MΩ or more at 500 VDC
	Secondary- casing : 5 MΩ or more at 250 VDC
o-earth voltage	±250 VDC
reme dimentions [mm]	138 (W) x 124 (H) x 380 (D)
lax. dimentions [mm]	140 (W) x 147.9 (H) x 402.9 (D)
eight	Approx. 9.1 kg
ccessories	AC power cable : 1, instruction manual : 1 Lead wires with connectors for external contact control : 1 Lead wires with sensing terminals (PW18-1.3ATS, PW26-1ATS only) : 2

pecifications of YB option

e YB option is available. This factory option lowers the output voltage quickly when output is rned off with no load or light load.
B" is added to the product code of a model with this option. (Example: PW18-1.8AQYB)

ITEMS	Specifications
utput voltage fall time 0% of rated voltage→10%)	Output lower than 10 V : 50 ms or less 10 V or higher output : 100 ms or less
esidual voltage	20 mV or less

pecifications of remote sensing terminal

ITEMS	Rating
ompensation voltage ange	1 V (per wire)

he performances and voltage display specifications of the PW18-1.3ATS and PW26-1ATS are he values at the sensing end.
heir transient responses are the values when the sensing function is not used.

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SPECIFICATIONS

munication Specifications of IF-40RS

al bus (PW bus) IN/OUT pin 3 of connector J1		
e transmission rate	9600 bps, error : 5% or less	
a code structure	Start bit	1 [bit]
	Date bit	7 [bit]
	Parity bit	1 [bit]
	Stop bit	1 [bit]
ty	Even parity	
. cable length	1.5 [m]	
al type	Signal -flow NRZ	0 : 5 [V]
		1 : 0 [V]
nectable units	4 units	
al bus IN pins 2 & 5 of connector J1, connector J2		
trical level	Conforms to RS-232C.	
e transmission rate	9600 bps, error : 5% or less	
a code structure	Start bit	1 [bit]
	Date bit	7 [bit]
	Parity bit	1 [bit]
	Stop bit	1 [bit]
ty	Even parity	
. cable length	10 [m] (between computer & IF-40RS)	

r specifications are the same as those of the local bus (PW bus).

munication Specifications of IF-40GU (GP-IB Block)

IB	
trical specifications	Conforms to IEEE488-1978.
hanical specifications	Conforms to IEEE488-1978.
rface functions	SH1, AH1, T6, TE0, L3, LE0, SR1, RL1, PP0, DC0, DT0, C0
ress setting	Possible to set address between 0 and 30 and listen - only mode when turning on power.
d delimiters	CR/LF + EOI
ener functions	Possible to set all output conditions of units under control.
er functions	Possible to detect all output and setting conditions of units under control.
vice request functions	Informs of change in CC/CV status, occurrence of alarm, and response to inquiry.
(USB Block)	
cification	Conforms to USB version 1.1.
nector shape	USB series B
smission rate	Full speed

CIRCUIT DESCRIPTION

OVERVIEW OF PW-A

AC power input to the AC inlet of the CPU unit passes through the units shown below and reaches the output terminals.

CPU unit → Power supply unit E/6 →CPU unit →Power transformer → Power supply unit D/6 → Power supply unit C/6 → Amplifier unit → Power supply unit E/6 → Output terminals

The CPU unit has an AC inlet. AC power input to the AC inlet passes through a noise-reducing capacitor, protection fuse, and input voltage selector switch, and reaches the power supply unit E/6 provided with the main switch. When the main switch is thrown, the AC power returns to the CPU unit once and is input to the power transformer. The AC power insulated by the power transformer and transformed to the voltage, which depends on the model, is rectified by the power supply unit D/6, smoothed by the power supply unit C/6, controlled to the set value by the amplifier unit, and is output through the output terminals of the power supply unit B/6.

The PW-A power supply unit has as many routes as the number of ouputs following the power transformer.

In addition to these units, the PW-A power supply unit consists of power supply unit A/6, display unit, and CPU unit. The power supply unit A/6 generates power for the internal circuits, the display unit serves as the interface, and the CPU unit controls the power and executes various functions.

The IF-40RS/GU/USB option provides the PW-A power supply unit with remote control functions.

The YB option (factory option) is also available. This factory option provides the PW-A power supply unit with quicker voltage descent when the output is off. With the input unit is connected with the amplifier unit, the YB option discharges electric charge from the output capacitors and lowers the voltage quickly.

PANEL UNIT (X66-182)

(A number is a number of a block diagram)

1. Rotary encoder (S25) -- Rotary encoder for a setup attached to a front panel. When it turns in the direction of a clockwise rotation, COM is contacted in order of A and B, and it is set to L level. If it is an opposite direction, it will become the order of B and A.
2. LED driver (IC1) -- Driver, which makes voltage display LED turns on.
3. Voltage display LED (ED 1-4, D1) -- 7 segment LED that displays a voltage value. D1 is a minus.
4. LED driver (IC2) -- Driver, which makes the current display LED, turn on.
5. Current display LED (ED 5-8, D2) -- 7 segment LED which displays a current value. D2 is a minus.
6. LED driver (IC3) -- LED with a switch and Driver, which makes LED turn on
7. LED with switch (S1-12, S15-18, S21, S22, and S24) -- LED for a display of each function and the switch for a setup. LED is turned on by the driver, a switch constitutes a matrix and scan is carried out from CPU. Therefore, the switch and LED are separated in circuit.
8. Tact switch (S13, 14, 19, 20, 23) -- Switch for an each setup. The matrix is constituted with LED with switch, and scan is carried out from CPU.
9. Light Emitting Diode (D3-11) -- LED for each display. LED which displays the beam of output and setting change. The beam of setting change makes a voltage and current side turns on by the same signal. It is driven by LED driver (IC3).

Details of a signal

CS* -- Data is taken in by putting in H pulse after a serial data (16Bit) input.

DATA -- The Serial data input (16Bit)

CLK -- IC clock pulse which operates IC, the serial data of DATA is taken in in the standup of this pulse.

POWER SUPPLY UNIT (X68-221)

Power supply unit X68-2210-xx is divided into six of A-F, and each has another function. Moreover, PC boards of PW16-5ADP differ for the circuit composition different from other models, and PW16-5ADP becomes X68-2300-xx.

(A number is a number of a block diagram)

X68-2210(2300)-xx A/6

The unit which makes the power supply for internal circuits.

1. Rectification, flat and smooth circuit -- It rectifies and carries out flat and smooth the power supply used by the digital system used in a CPU unit.
The voltage after being flat and smooth is about DC9V.
2. Regulation circuit -- The output of the above 1 is regulated to DC5V. The consumption current in a CPU unit is about 350mA, when IF unit is connected, it is about 450mA.
3. Rectification, flat and smooth circuit -- It rectifies and carries out flat and smooth the power supply used by CH1 and 2 side among the power supplies of the analog system used in an amplifier unit. The voltage after being flat and smooth is about DC±17V. In AQ, the power supply system here is used for 4CH(s) for the same COM. ±12V is regulated in an amplifier unit.
4. Regulation circuit -- The output of the above 3 is regulated to DC±5V. Consumption current is about 200mA, respectively.
5. Rectification, flat and smooth circuit -- It rectifies and carries out flat and smooth the power supply used by CH3 and 4 side among the power supplies of the analog system used in an amplifier unit. The voltage after being flat and smooth is about DC ±17V. (modification 02 to 04 and 08, X68-2300-00 are no used) ±12V is regulated in an amplifier unit.
6. Regulation circuit -- The output of the above 5 is regulated to DC ±5V. Consumption current is about 200mA, respectively. (modification 02 to 04 and 08, X68-2300-00 are no used)
7. Regulation circuit -- Power supply±12V used in the circuit of 8 to 12 are made. For power consumption, -12V are about 30 to 40mA. +12 is about 10mA.
8. Heat detection circuit -- The heat of an exhaust gas is detected with the thermistor of TH101
9. OHA signal generating circuit -- If a fixed value with

CIRCUIT DESCRIPTION

voltage for a FAN drive is exceeded, the signal ch turns off MAINOUTPUT will be outputted with the mparator of IC 106 1/2. About -12V output.
Rectification, flat and smooth circuit -- The voltage a FAN drive is rectified and carried out flat and ooth. The voltage after flat and smooth is about DC-V.
Transistor -- It is the transistor which regulate the tage for a FAN drive. The error amplification circuit 12 controls it.
Error amplification circuit -- Voltage of the power pply for a FAN drive is attenuated by R108, 107 and 101. It is compared with the voltage value decided R109 and R110. Control the transistor of 11. nsumption current is about 200 to 250mA.

3-2210(2300)-xx B/6
e unit which attaches the output terminal of a duct. On 00, A, B, C, D, and all COM attach. On 05, 06 and 07, A, B, C, COM1, and COM2 attach. 02 to 04 and 08, A, B, and COM attach. On 09 d 11, A, B, C, COM1, COM2 and ±S attach, and a pper is separated. D201-206, and R201, R202, 10 and C211 are for the protection of ±S attachment. hough, as for X68-2300-00, B2, COM2, and ±S are tten to the block diagram, this is an object for CF, ually is not attached.

3-2210(2300)-xx C/6
18, 20, 22. Flat and smooth circuit. The capacitor flat and smooth of a main power supply is used. A pacitor and an output become as it is shown in the owing table.

	00	01,09	02	03
301	A OUTPUT	A OUTPUT	A OUTPUT	A OUTPUT
302	B OUTPUT	B OUTPUT	B OUTPUT	B OUTPUT
303	C OUTPUT	C OUTPUT	—	—
304	D OUTPUT	C OUTPUT	—	—

	04	05	06	07,11
301	A OUTPUT	A OUTPUT	A OUTPUT	A OUTPUT
302	B OUTPUT	B OUTPUT	B OUTPUT	B OUTPUT
303	—	C OUTPUT	C OUTPUT	C OUTPUT
304	—	—	C OUTPUT	C OUTPUT

	08	X68-2300
301	A OUTPUT	A OUTPUT
302	B OUTPUT	B OUTPUT
303	—	B OUTPUT
304	—	B OUTPUT

reover, C302 and C303 replace polarity based on the pper attached behind.

19, 21. Positive/negative change -- The polarity of a capacitor is replaced by spec code with a jumper.

X68-2210(2300)-xx D/6
13 to 16. Regulation circuit -- A bridge diode rectifies a main power supply. A diode and an output become as it is shown in the following table.

	00	01	02	03
D401	C OUTPUT	C OUTPUT	A OUTPUT	—
D402	D OUTPUT	C OUTPUT	B OUTPUT	—
D403	A OUTPUT	A OUTPUT	—	A OUTPUT
D404	B OUTPUT	B OUTPUT	—	B OUTPUT

	04	05	06	07,11
D401	A OUTPUT	C OUTPUT	C OUTPUT	C OUTPUT
D402	B OUTPUT	—	C OUTPUT	C OUTPUT
D403	—	A OUTPUT	A OUTPUT	A OUTPUT
D404	—	B OUTPUT	B OUTPUT	B OUTPUT

	08	X68-2300
D401	—	B OUTPUT
D402	—	B OUTPUT
D403	A OUTPUT	A OUTPUT
D404	B OUTPUT	B OUTPUT

X68-2210(2300)-xx E/6
23. The main power switch of a product is used. It connects with a CPU unit.

X68-2210(2300)-xx F/6
24. The switch x2 which switches the input AC of a product is used. It is used in a CPU unit as A1.

IF UNIT (X72-154)

The optional IF unit provides the PW-A power supply unit with additional external control functions. 0-00 is the IF-40GU, 0-01 is the IF-40RS, and 0-02 is the IF-40USB.
The CPU unit supplies +5V power.
Since these options use the same PCBs, CN1, 2 and 3 of the GU or USB are connected with the CPU unit and CN4, 5 and 6 of the RS are connected with the CPU unit.

(A number is a number of a block diagram)
1. CPU The CPU controls the interfaces. The CPU unit supplies power source and clock pulses. This is connected with the CPU of the CPU unit through the buffer and bus transceiver shown in 2 and executes communication with the PW-A unit.
2. Buffer and bus transceiver The buffer and bus transceiver connect the CPUs of the PW-A unit and IF unit. They connect the CPU when the PW-A unit

CIRCUIT DESCRIPTION

outputs a "/BACK" signal.
3. ROM and RAM These ROM and RAM are connected with the CPU. The ROM is a socket type and the program differs with the models.
4. USB control circuit This circuit executes communication through the USB interface and sends data to the CPU. It has IC4 for controlling the USB, X1 for generating 48 MHz clock pulses, IC14 for producing 3.3 V. and USB connector J5. It is installed in the GU and USB.
5. GP-IB control circuit This circuit executes communication through the GP-IB and sends data to the CPU. It has IC10 exclusive for GP-IB control, line driver IC11 and IC12, and GP-IB connector J1. It is installed in the GU.
6. Local bus control circuit This circuit connects PW-A power supply units with the GU and/or USB units installed with each other. It consists of a line driver IC13, terminator resistors R35 and R36, and selector switch S1.
7. RS-232C and local bus control circuit These are the RS-232C interface and the local bus control circuit with a modular jack. They consist of a line driver IC18 and Q1, 2 and 3.
8. ROM socket When ROM is installed on this socket and R6 is short-circuited, the unit may be started using the ROM program. When the exclusive copy program is stored in the ROM shown in 3, the program in this ROM may be written in the ROM in the power supply unit.

INPUT UNIT (X72-162)

The optional X72-1620-** input unit enables the output voltage to be reduced quickly when no load or a low load is connected.
It has constant-current discharging circuit for each channel and discharges the capacitors at the output end.
This unit is connected with an amplifier unit and is connected with the output end from there. It receives the output signal of the CV amplifier of each channel from the amplifier unit and operates only when the output is off.
The mounted parts differ with the number of channels, output voltages and polarity. There are eight modifications in all.

AMP UNIT (X73-232)

The amplifier unit controls DC current input from the power supply unit C/6 to the set value sent by the CPU unit.
The DAC converts serial data of the set value sent by the CPU unit into analog data. The amplifier unit compares these analog data with the monitored value and controls the DC current.
Each of four channels has the same circuit configuration. However, different parts are used according to the output voltage and current and their polarity. In particular, the power transistors are quite different. In a three-channel power supply unit, Q13 to Q20 are used for channel 3.
Channels 2 and 4 use the COM commonly. In a three-channel power supply unit, channels 1 and 2 use a different common line from channel 3. Thus, the power lines are different.
Since the circuit configuration is identical, the description below explains channel 1.

(A number is a number of a block diagram)
1. D/A converter (IC2) (CH2: IC1, CH3: IC20, CH4: IC19) The D/A converter receives digital signal indicating the set value from the CPU unit and converts it into an analog signal. The PCM1700U, a DAC unit used, has two circuits, which convert the CVREF voltage and CCREF voltage, respectively.
The D/A converter outputs approximately 0 to -2.25 V through pins 16 and 27, regardless of the output on/off condition.
2. REF (non) reversing circuit (IC3 and IC4) This circuit amplifies the output voltage of the D/A converter by reversing or not reversing it according to its polarity. Channel 1 uses all of 00 to 09 as two reversing amplifiers to provide non-reverse output. CV REF is output through pin 1, and CC REF is output through pin 7. The voltage is approximately 0 to -7.5 V.
3. CC error amplifier (IC8-1/2)
This amplifier compares the CC REF output (B) of the REF (non) reversing circuit with the output (D) of the current detector circuit and amplifiers the error to control the power transistors in CC operation.
4. CV error amplifier (IC8-2/2)
This amplifier compares the output (C) of the REF (non) reversing circuit with the output voltage sensing value (E) and amplifiers the error to control the power transistors in CV operation. This amplifier ORs the outputs shown in 3 and 4 and always use either output to control the power transistors shown in 5 below.
5. Power transistors (First stage: Q4, 5 and 6, final stage: Q1, 2 and 3) (CH2 … First stage: Q10, 11 and 12, final stage: Q7, 8 and 9. CH3 … First stage: Q15 and 16, final stage: Q13 and 14. CH4 … First stage: Q19 and 20, final stage: Q17 and 18.)
These are the main power transistors for stabilizing the output power. Two transistors are Darlington-connected. The number and characteristics of the power transistors differ with the output specifications.
6. Current detection circuit (R41 and IC11) The four-terminal resistor R41 detects the output current, which is input to the differential amplifier (IC11 1/2), reversed by a buffer and input into the CC error amplifier shown in 3. Since the voltage must be positive when monitoring the current, positive power does not pass through the reversing buffer and is input to the signal selector shown in 9. Negative power is reversed by the reversing buffer.
7. Voltage monitor circuit (IC10 2/2)
This circuit attenuates the output voltage A and produces a voltage monitoring signal.
8. OUT ON/OFF (Q21 OR Q22)
This circuit makes the base signal of the power transistors and CV/CC REF into positive or negative voltage according to the CPU and stops the output. Parts and voltage differ with the polarity of the output.

CIRCUIT DESCRIPTION

sistors and CV/CC REF into positive or negative age according to the CPU and stops the output. s and voltage differ with the polarity of the output.
CH1/2 signal selector 1 (IC13) (CH3/4: IC31)
reference value and monitored value of each ut are controlled by a shift register and are output. log data output here is switched by a multiplexer in and input to an ADC, which converts it into digital and sends it to the CPU unit.
CH1/2 signal selector 2 (IC15) (CH3/4: IC33)
selector selects the output shown in 9, reference er voltage or COM voltage, and sends it to the ADC.
Shift register (IC18)
shift register controls signals output through pins 9, and 11 of the multiplexers shown in 9 and 10 above. eration of the shift register is controlled by the CPU
CH1/2 A/D converter (IC17) (CH3/4: IC35)
A/D converter converts the output voltage of the al selector shown in 10 into 20-bit digital signal.
CH1/2 reference voltage (D5) (CH3/4: D26) A er diode produces the reference voltage.
Power transistors (Q1 to 6) These are the main er transistors for stabilizing the output power. The sistors are Darlington-connected. The number and racteristics of the power transistors differ with the ut specifications.
±12 V regulator (IC37 and IC38) The regulator ulates the voltage from the power unit to ±12 V. 00, 03 and 04 modifications: Power source of all analog uits of the amplifier unit 01 and 05 modifications: ver source of the analog circuits of CH1 and CH2
±12 V regulator (IC40 and IC41) This is used for and 05 only. This produces power source of CH3 log circuits.
nals
S DATA0 A, B: Serial data of the CV REF voltage
.: Serial data of the CC REF voltage
.: Latch enable signal. Serial data is read in and log signal is output at the trailing edge of this signal.
...: Clock pulses for running the D/A converter
Reference voltage for CC control. Changes when CC setting is changed.
Reference voltage for CV control. Changes when CV setting is changed.
Signal for monitoring the current
Output voltage, which is attenuated by the voltage itor in the latter stage.
Clock pulses for running the A/D converter
..: Chip select signal. The A/C converter enters sleep condition when this is High.
Digital output signal converted from each analog a
Shift register data line common to the signal input he DAC. The multiplexer is controlled based on signal.
...: Clock pulses for the shift register
.: Shift register latch enable

U UNIT (X77-238)

CPU unit has a digital control circuit composed of a CPU, ROM, RAM and so forth, AC inlet, fuse, input selector switch, and AC power supply unit with capacitors.
The digital control circuit reads signals of the rotary encoder and switches from the display unit connected with a flat cable and sends control data to the amplifier unit.
The AC power supply unit feeds power input into the AC inlet to the transformer through the power supply unit E/6 with a power switch.
The amplifier unit supplies +5 V.
Digital control circuit

(A number is a number of a block diagram)
1. CPU (IC1): Microcomputer IC. Clock frequency: 12.2 MHz. Driven on +5 V. Executes various controls.

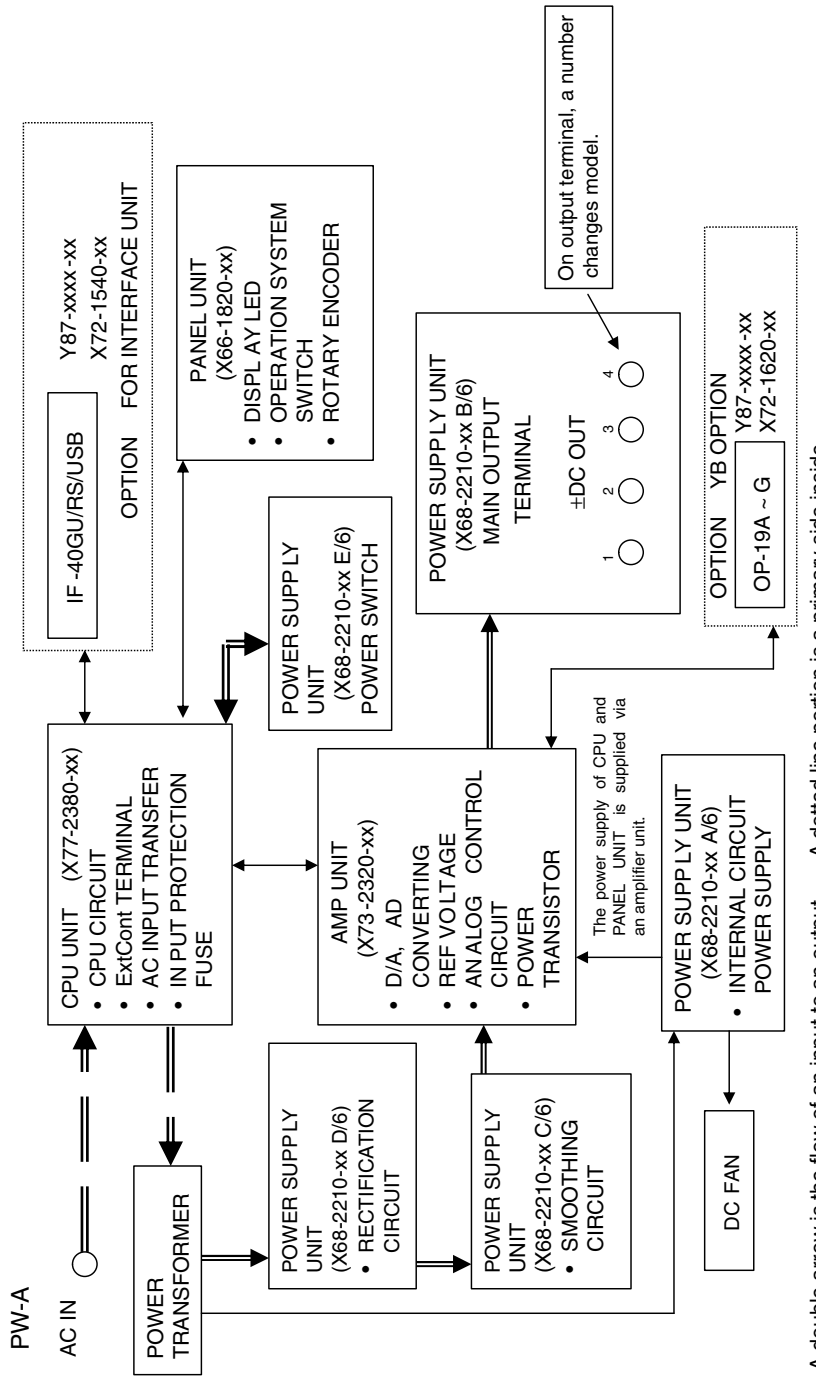
2. Reset circuit (IC11): This circuit monitors +5 V when power is turned on, changes the RESET signal level from L into H, and activates the CPU. It also gives a latch enable signal of the OUTPUT signal in order to prevent output when the power source is unstable.
3. Line decoder (IC6) and data latch (IC7, 8, 9, and 10): These convert the data line data into each data.
4. EEPROM (IC4 and 5): An IC for storing the power setting, adjustment values, etc.
5. Isolation (PH1 to 29): Isolates the digital circuits from the analog circuits.
S-DATA -- Serial data of the set voltage and current. Connected to the DAC of the amplifier unit. The reference signal is produced based on this data.
CLK-DA -- Clock pulses for the above serial data
LE-DA -- Latch enable signal for the above serial data. Transferred to the converter synchronously with the trailing edge.
CLK-CTR -- Clock pulses to the shift register of the amplifier unit. The S DATA shown above is used.
LE-CTR -- Latch enable signal to the shift register of the amplifier unit. Analog data to be supplied to the ADC is selected according to the shift register.
DATA-AD -- Serial data from the ADC of the amplifier unit. This data is read and the output value is displayed.
CS-AD -- Select signal to the ADC. The ADC is in the sleep condition when this signal is Low.
CLK-AD -- Clock pulses to the ADC. Data is read using this clock pulse for external clock operation.
OUT -- OUTPUT ON/OFF signal to each channel.
CVCC -- This signal indicates the CV/CC operation condition of each channel. It is sent by the amplifier unit and read by the CPU, which reflects the signal upon the display unit.
6. Encoder signal (IC...): When the encoder is rotated clockwise, pin 5 of IC12 outputs a High signal and pin 9 of IC12 outputs a Low signal. When the encoder is rotated counterclockwise, pin 5 of IC12 outputs a Low signal and pin 9 of IC12 outputs a High signal. IC14-2 goes Low and an interrupt signal is input to the CPU when either operation is carried out. The CPU reads and clears this signal.

CIRCUIT DESCRIPTION

7. External control (CN..) These are directly connected with the CPU ports. D1 to D6 are used for protection. Pin 7 has Q1 and Q2 for both input and output. PH30 is used for isolation.
CN5-1 -- The MAIN OUTPUT is turned on when this terminal goes Low.
CN5-2 -- The voltage and current set values change into the PRESET4 values when this terminal goes Low.
CN5-3 -- The voltage and current set values change into the PRESET3 values when this terminal goes Low.
CN5-4 -- The voltage and current set values change into the PRESET2 values when this terminal goes Low.
CN5-5 -- The voltage and current set values change into the PRESET1 values when this terminal goes Low.
CN5-7 -- The MAIN OUTPUT is turned off when this terminal goes Low. It goes Low when the OHA condition is established.

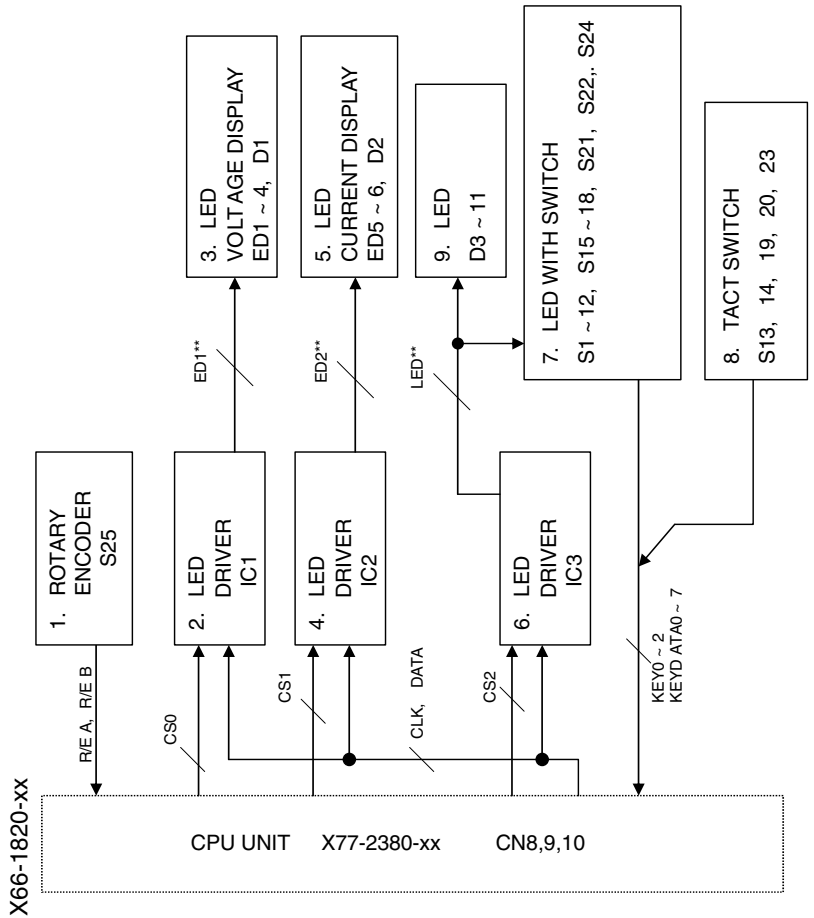
AC power supply circuit
8. J1: AC inlet
A1 -- A switch for changing the input AC voltage
CN11 -- Fuse holder
C38 to 41 -- Noise-reducing capacitors

BLOCK DIAGRAM

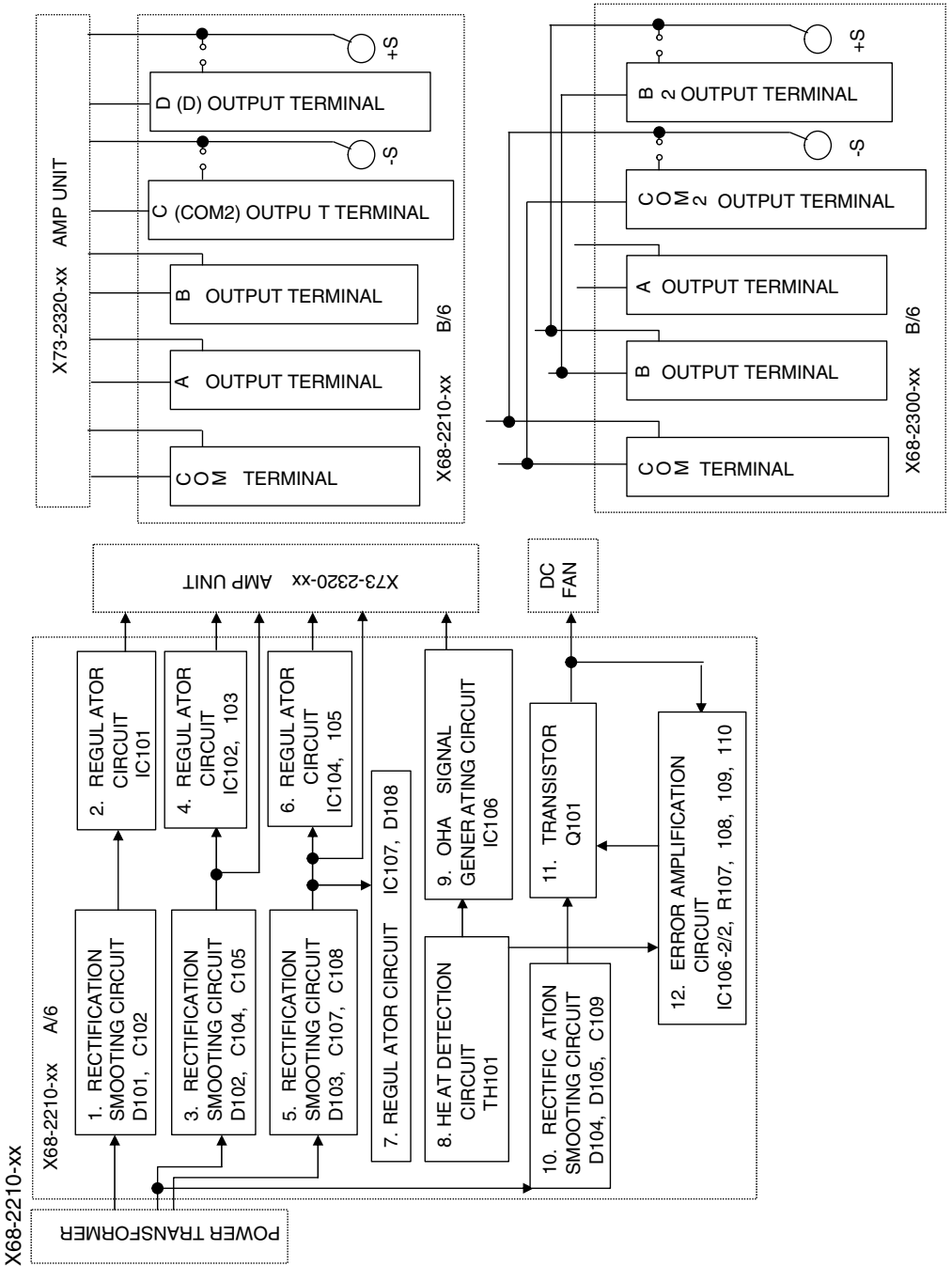


✻ A double arrow is the flow of an input to an output. A dotted line portion is a primary side inside.

BLOCK DIAGRAM

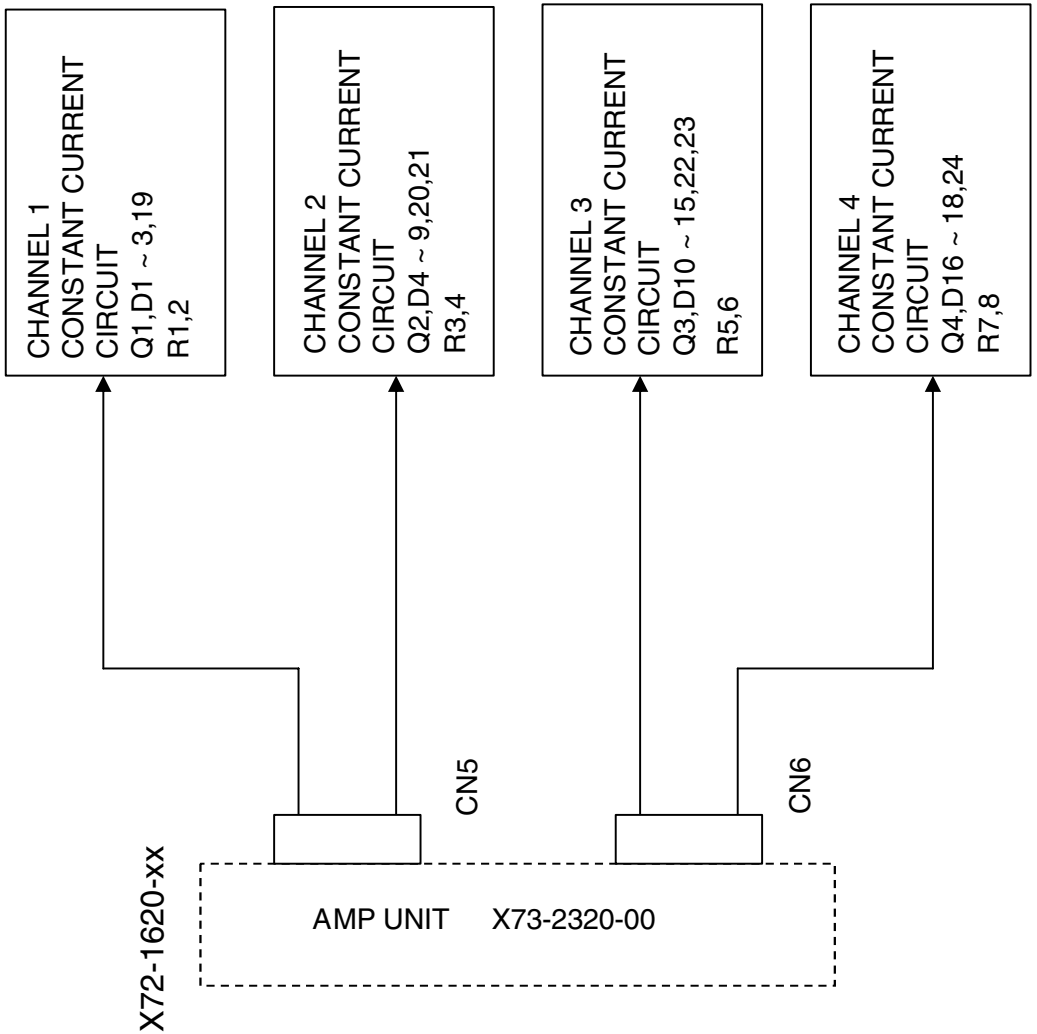


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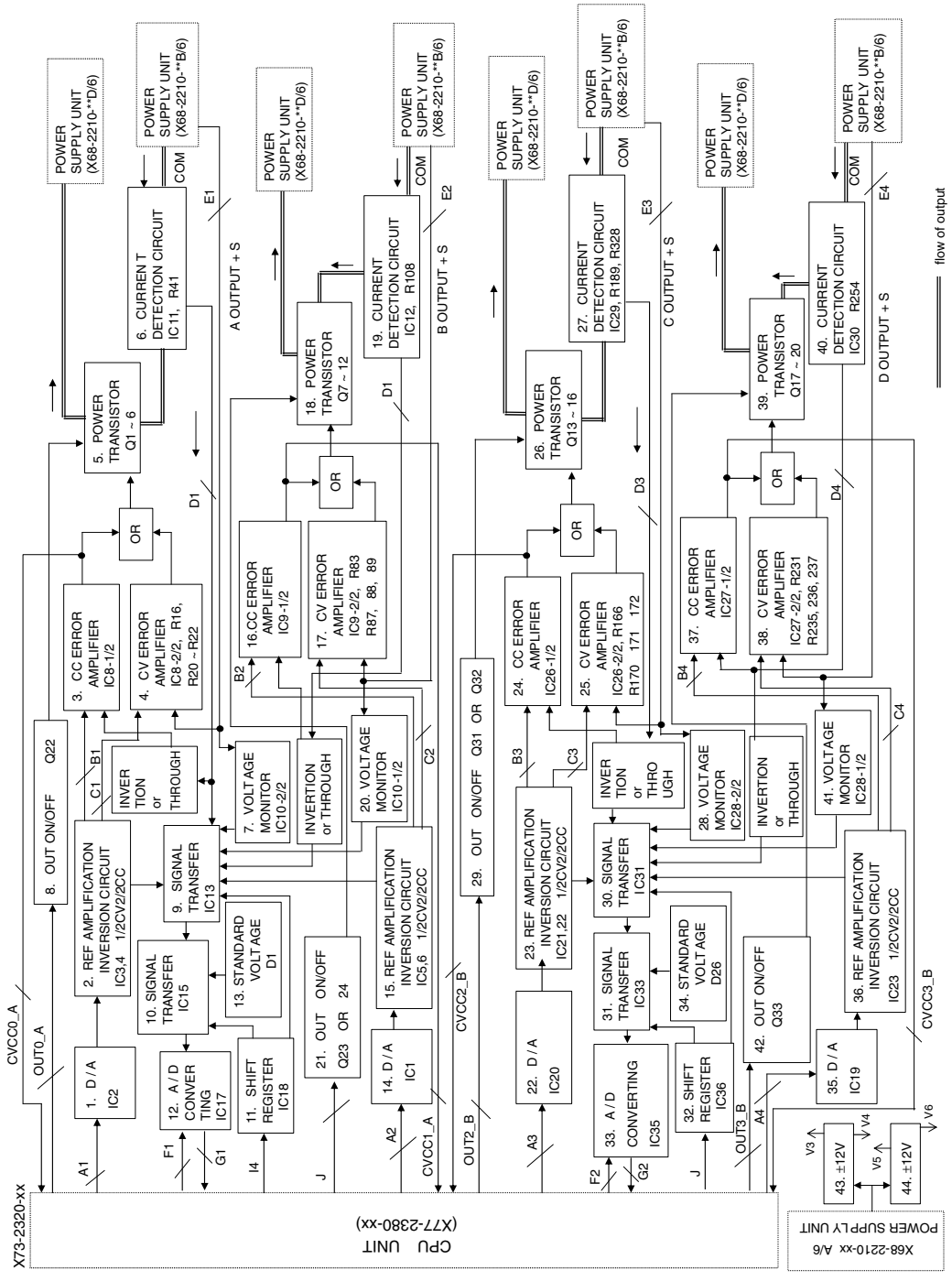


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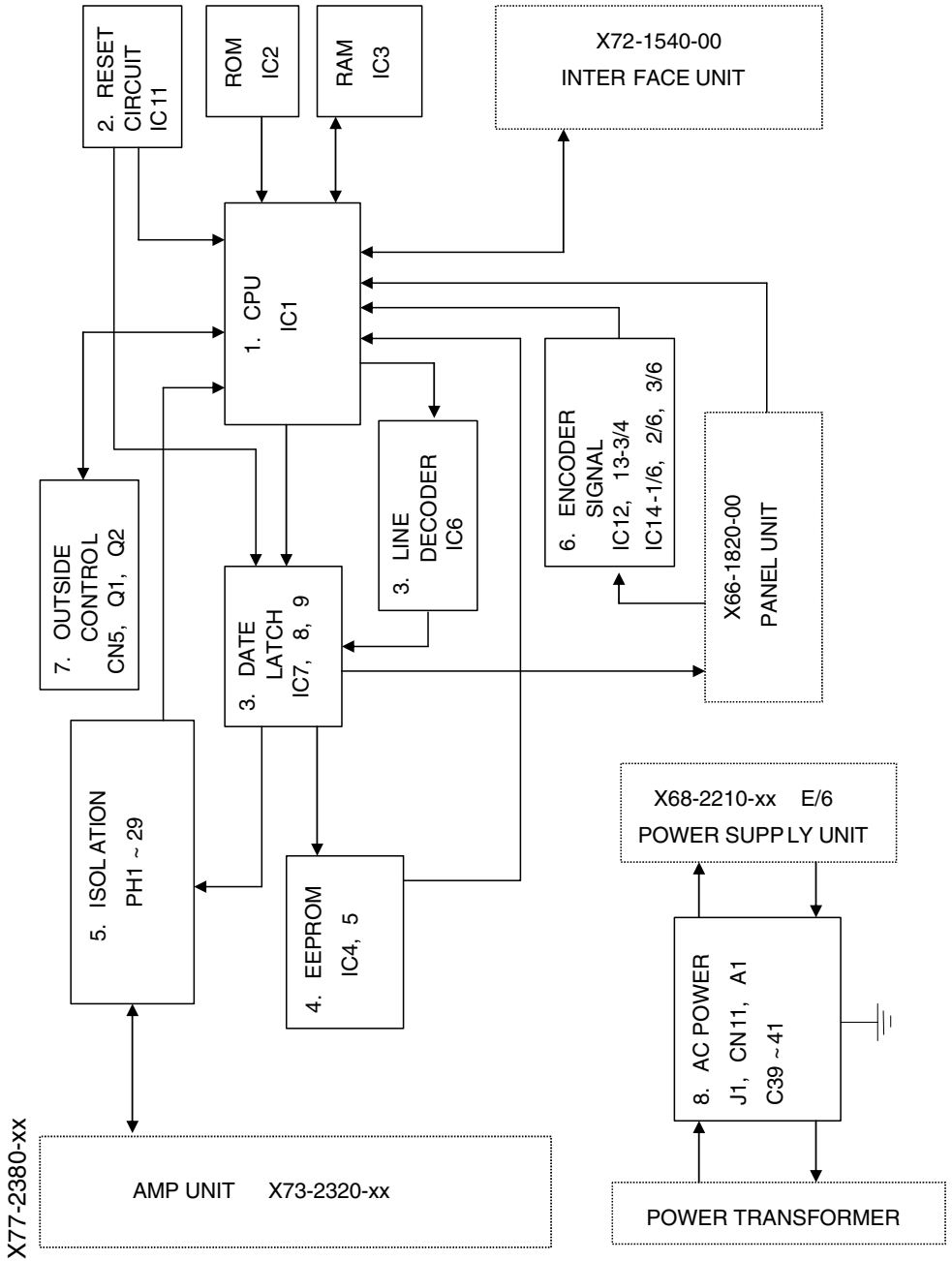
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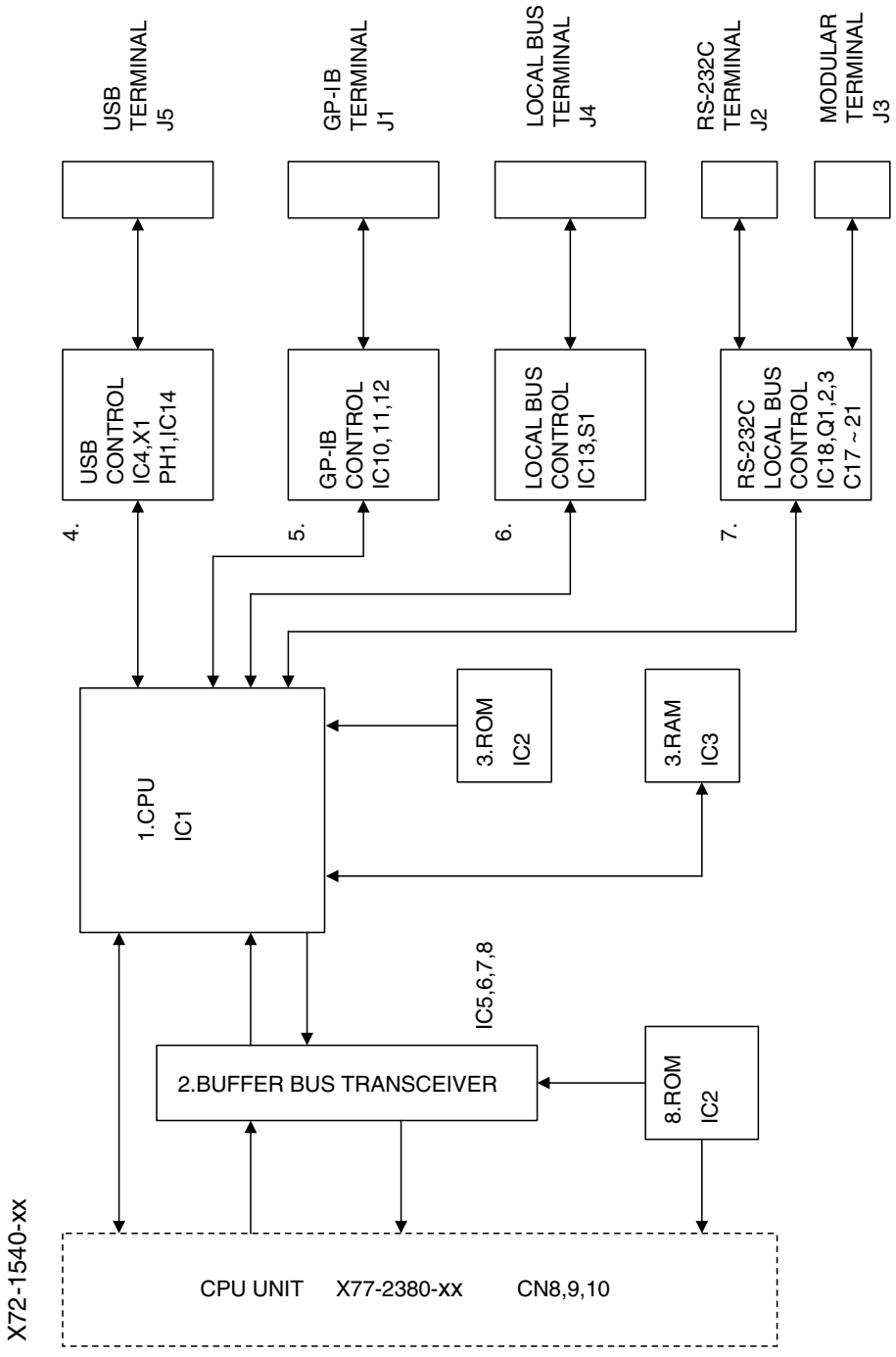
BLOCK DIAGRAM



BLOCK DIAGRAM



BLOCK DIAGRAM



-A

ADJUSTMENT

tain the best performance, periodically calibrate nit. Sometimes, only one mode need be rated, while at other times, all modes shou ld be rated. When one mode is calibrated, it must be d that the other modes may be affected. When rating all modes, perform the calibration in the ified sequence.
ollowing calib ration required an accurate suring instrument and an insulated adjusting flat e screwdriver.
y are not available, contact your dealer. For num adjust ment, turn the power on and warm up nit sufficiently (more than 30 minutes) before ng. Before calibrating the unit check the power ly voltage.

TEST EQUIPMENT REQUIRED

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

TEST EQUIPMENT	MODEL	MAKER
Multi-meter	34401A	HP(Agilent)
Shunt Register	RUG-Z series	PCN

SHUNT REGISTER

	RUG-Z-1R-0.1 1[Ω]	RUG-Z-100-0.1 100 [m Ω]
PW18-1.8AQ	○	
PW18-1.3AT	○	○
PW18-3AD	○	○
PW36-1.5AD	○	
PW18-3ADP	○	○
PW18-2ATP	○	
PW16-5ADP	○	○
PW8-3ATP	○	○
PW26-1AT	○	○
PW36-1.5ADP	○	
PW18-1.3ATS	○	○
PW26-1ATS	○	○

Adjustment mode ID setting

1. Turn ON the power supply switch, while pushing V key, A key and MEMORY key.
   (Continue pushing Above key until the display called "Idno -- X" appears in a panel)
2. Check the display "Ajst Id X" appears in a panel. (adjustment mode)
3. Check whether the ID No. display setting to adjust is correct. (refer to the following list)

MODEL NAME	ID No.
PW18-1.8AQ	ID No. 1
PW18-1.3AT	ID No. 2
PW18-3AD	ID No. 3
PW36-1.5AD	ID No. 4
PW18-3ADP	ID No. 5
PW18-2ATP	ID No. 6

MODEL NAME	ID No.
PW16-5ADP	ID No. 7
PW8-3ATP	ID No. 8
PW26-1AT	ID No. 9
PW36-1.5ADP	ID No. 10
PW18-1.3ATS	ID No. 11
PW26-1ATS	ID No. 12

4. If ID No. is correct, press the PRESET 1 key.
   If ID No. is wrong, turn a rotary encoder and set the ID No. and press the MEMORY key.
5. Check the display "Ajst Ajst" appears in a panel after the above-mentioned directions

Selection in voltage / current adjustment mode, and special order setting mode

Press the PRESET 1 key and press the MEMORY key when it's "Ajst Ajst" in the display of a panel.
(Operation which selects voltage / current adjustment mode)

Voltage

1. Press the PRESET 1 key when it's "Ajst ----" in the display of a panel.
2. Press the MEMORY key. (Selection in voltage adjustment mode)

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ADJUSTMENT

2. Voltage adjustment channel setup

1. Press the V key.
2. Turn a rotary encoder and set the adjusting channel.
3. Press the MEMORY key.
4. Select the OUTPUT SELECT of the channel to adjust.

3. Connection of constant apparatus

Connect the output CH to adjust PWA, and COM terminal to DMM.

4. Voltage rating 100% adjustment

1. Set up a voltage display in DIGIT key and a rotary encoder. (refer to the following list)
2. Turn on MAIN OUTPUT
3. Adjust in DIGIT key and a rotary encoder so that it becomes within the limits of the following list of the value of DMM.
4. Press the MEMORY key.

MODEL NAME	SETTING VOLTAGE		ADJUSTMENT RANGE
PW18-1.8AQ	CH1	18.00 V	± 1 mV
	CH2	-18.00 V	± 1 mV
	CH3	8.000 V	± 1 mV
	CH4	-6.000 V	± 1 mV
PW18-1.3AT	CH1	18.00 V	± 1 mV
	CH2	-18.00 V	± 1 mV
	CH3	6.000 V	± 1 mV
PW18-3AD	CH1	18.00 V	± 1 mV
	CH2	-18.00 V	± 1 mV
PW36-1.5AD	CH1	36.00 V	± 1 mV
	CH2	-36.00 V	± 1 mV
PW18-3ADP	CH1	18.00 V	± 1 mV
	CH2	18.00 V	± 1 mV
PW18-2ATP	CH1	36.00 V	± 1 mV
	CH2	18.00 V	± 1 mV
	CH3	8.000 V	± 1 mV
PW16-5ADP	CH1	6.000 V	± 1 mV
	CH2	16.00 V	± 1 mV
PW8-3ATP	CH1	8.000 V	± 1 mV
	CH2	8.000 V	± 1 mV
	CH3	18.00 V	± 1 mV
PW26-1AT	CH1	26.00 V	± 1 mV
	CH2	-26.00 V	± 1 mV
	CH3	6.00 V	± 1 mV
PW36-1.5ADP	CH1	36.00 V	± 1 mV
	CH2	36.00 V	± 1 mV

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ADJUSTMENT

MODEL NAME	SETTING VOLTAGE		ADJUSTMENT RANGE
PW18-1.3ATS	CH1	18.00 V	± 1 mV
	CH2	-18.00 V	± 1 mV
	CH3	6.000 V	± 1 mV
PW26-1ATS	CH1	26.00 V	± 1 mV
	CH2	-26.00 V	± 1 mV
	CH3	6.000 V	± 1 mV

Voltage rating 10% adjustment

1. Set up a voltage display in DIGIT key and a rotary encoder. (refer to the following list)
2. Turn on MAIN OUTPUT.
3. Adjust in DIGIT key and a rotary encoder so that it becomes within the limits of the following list of the value of DMM.
4. Press the MEMORY key.

MODEL NAME	SETTING VOLTAGE		ADJUSTMENT RANGE
PW18-1.8AQ	CH1	1.80 V	± 1 mV
	CH2	-1.80 V	± 1 mV
	CH3	0.800 V	± 1 mV
	CH4	-0.600 V	± 1 mV
PW18-1.3AT	CH1	1.80 V	± 1 mV
	CH2	-1.80 V	± 1 mV
	CH3	0.600 V	± 1 mV
PW18-3AD	CH1	1.80 V	± 1 mV
	CH2	-1.80 V	± 1 mV
PW36-1.5AD	CH1	3.60 V	± 1 mV
	CH2	-3.60 V	± 1 mV
PW18-3ADP	CH1	1.80 V	± 1 mV
	CH2	1.80 V	± 1 mV
PW18-2ATP	CH1	3.60 V	± 1 mV
	CH2	1.80 V	± 1 mV
	CH3	0.800 V	± 1 mV
PW16-5ADP	CH1	0.600 V	± 1 mV
	CH2	1.600 V	± 1 mV
PW8-3ATP	CH1	0.800 V	± 1 mV
	CH2	0.800 V	± 1 mV
	CH3	1.800 V	± 1 mV
PW26-1AT	CH1	2.600V	± 1 mV
	CH2	-2.600 V	± 1 mV
	CH3	0.600 V	± 1 mV
PW36-1.5ADP	CH1	3.600 V	± 1 mV
	CH2	3.600 V	± 1 mV

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ADJUSTMENT

MODEL NAME	SETTING VOLTAGE		ADJUSTMENT RANGE
PW18-1.3ATS	CH1	1.800 V	± 1 mV
	CH2	-1.800 V	± 1 mV
	CH3	0.600 V	± 1 mV
PW26-1ATS	CH1	2.600 V	± 1 mV
	CH2	-2.600 V	± 1 mV
	CH3	0.600 V	± 1 mV

After voltage adjustment end, when adjust other channels, adjust in the same procedure from 5-3-2.
When ending voltage adjustment, press the long pushing of KEYLOCK key (more than 2 seconds) Cancel the voltage adjustment mode.

1. Current

1. Press the PRESET 2 key when it's "Ajst ---" in the display of a panel. (Even if press the LED of PRESET 2 key, it is not turned on)
2. Press the MEMORY key (Selection in current adjustment mode)

2. Current adjustment channel setup

1. Press the A key.
2. Turn a rotary encoder and set the adjusting channel.
3. Press the MEMORY key.
4. Select the OUTPUT SELECT of the channel to adjust.

3. Connection of constant apparatus

1. Connect the output CH to adjust PWA and COM terminal to shunt register.
2. Connect the sensing terminal of shunt register to DMM.

4. Current rating 100% adjustment

1. Set up a current display in DIGIT key and a rotary encoder. (refer to the following list)
2. Turn on MAIN OUTPUT.
3. Adjust in DIGIT key and a rotary encoder so that it becomes within the limits of the following list of the value of DMM.
4. Press the MEMORY key.

MODEL NAME	SETTING VOLTAGE		ADJUSTMENT VOLTAGE	ADJUSTMENT RANGE	SHUNT REGISTER
PW18-1.8AQ	CH1	1.800 A	1.800 V	± 1 mV	1 Ω
	CH2	-1.800 A	-1.800 V	± 1 mV	1 Ω
	CH3	2.000 A	2.000 V	± 1 mV	1 Ω
	CH4	1.000 A	1.000 V	± 1 mV	1 Ω
PW18-1.3AT	CH1	1.300 A	1.300 V	± 1 mV	1 Ω
	CH2	-1.300 A	-1.300 V	± 1 mV	1 Ω
	CH3	5.000 A	0.500 V	± 0.1 mV	100 m Ω
PW18-3AD	CH1	3.000 A	0.300 V	± 0.1 mV	100 m Ω
	CH2	-3.000 A	-0.300 V	± 0.1 mV	100 m Ω
PW36-1.5AD	CH1	1.500 A	1.500 V	± 1 mV	1 Ω
	CH2	-1.500 A	-1.500 V	± 1 mV	1 Ω

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ADJUSTMENT

MODEL NAME	SETTING VOLTAGE		ADJUSTMENT VOLTAGE	ADJUSTMENT RANGE	SHUNT REGISTER
PW18-3ADP	CH1	3.000 A	0.300 V	± 0.1 mV	100 m Ω
	CH2	3.000 A	0.300 V	± 0.1 mV	100 m Ω
PW18-2ATP	CH1	1.000 A	1.000 V	± 1 mV	1 Ω
	CH2	2.000 A	2.000 V	± 1 mV	1 Ω
	CH3	2.000 A	2.000 V	± 1 mV	1 Ω
PW16-5ADP	CH1	3.000 A	0.300 V	± 0.1 mV	100 m Ω
	CH2	5.000 A	0.500 V	± 0.1 mV	100 m Ω
PW8-3ATP	CH1	3.000 A	0.300 V	± 0.1 mV	100 m Ω
	CH2	3.000 A	0.300 V	± 0.1 mV	100 m Ω
	CH3	1.500 A	1.500 V	± 1 mV	1 Ω
PW26-1AT	CH1	1.000 A	1.000 V	± 1 mV	1 Ω
	CH2	1.000 A	1.000 V	± 1 mV	1 Ω
	CH3	5.000 A	0.500 V	± 0.1 mV	100 m Ω
PW36-1.5ADP	CH1	1.500 A	-0.300 V	± 1 mV	1 Ω
	CH2	1.500 A	1.500 V	± 1 mV	1 Ω
PW18-1.3ATS	CH1	1.300 A	1.300 V	± 1 mV	1 Ω
	CH2	-1.300 A	-1.300 V	± 1 mV	1 Ω
	CH3	5.000 A	0.500 V	± 0.1 mV	100 m Ω
PW26-1ATS	CH1	1.000 A	-1.300 V	± 1 mV	1 Ω
	CH2	1.000 A	0.500 V	± 1 mV	1 Ω
	CH3	5.000 A	0.300 V	± 0.1 mV	100 m Ω

5. Current rating 10 % adjustment

1. Set up a current display in DIGIT key and a rotary encoder. (refer to the following list)
2. Turn on MAIN OUTPUT.
3. Adjust in DIGIT key and a rotary encoder so that it becomes within the limits of the following list of the value of DMM.
4. Press the MEMORY key.

MODEL NAME	SETTING VOLTAGE		ADJUSTMENT VOLTAGE	ADJUSTMENT RANGE	SHUNT REGISTER
PW18-1.8AQ	CH1	0.180 A	0.180 V	± 1 mV	1 Ω
	CH2	-0.180 A	-0.180 V	± 1 mV	1 Ω
	CH3	0.200 A	0.200 V	± 1 mV	1 Ω
	CH4	0.100 A	0.100 V	± 1 mV	1 Ω
PW18-1.3AT	CH1	0.130 A	0.130 V	± 1 mV	1 Ω
	CH2	-0.130 A	-0.130 V	± 1 mV	1 Ω
	CH3	0.500 A	0.500 V	± 1 mV	1 Ω
PW18-3AD	CH1	0.300 A	0.300 V	± 1 mV	1 Ω
	CH2	-0.300 A	-0.300 V	± 1 mV	1 Ω
PW36-1.5AD	CH1	0.150 A	0.150 V	± 1 mV	1 Ω
	CH2	-0.150 A	-0.150 V	± 1 mV	1 Ω

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ADJUSTMENT

MODEL NAME	SETTING VOLTAGE		ADJUSTMENT VOLTAGE	ADJUSTMENT RANGE	SHUNT REGISTER
PW18-3ADP	CH1	0.300 A	0.300 V	± 1 mV	1 Ω
	CH2	0.300 A	0.300 V	± 1 mV	1 Ω
PW18-2ATP	CH1	0.100 A	1.000 V	± 1 mV	1 Ω
	CH2	0.200 A	0.100 V	± 1 mV	1 Ω
	CH3	0.200 A	0.200 V	± 1 mV	1 Ω
PW16-5ADP	CH1	0.300 A	0.300 V	± 1 mV	1 Ω
	CH2	0.500 A	0.500 V	± 1 mV	1 Ω
PW8-3ATP	CH1	0.300 A	0.300 V	± 1 mV	1 Ω
	CH2	0.300 A	0.300 V	± 1 mV	1 Ω
	CH3	0.150 A	0.150 V	± 1 mV	1 Ω
PW26-1AT	CH1	0.100 A	1.000 V	± 1 mV	1 Ω
	CH2	0.100 A	1.000 V	± 1 mV	1 Ω
	CH3	0.500 A	0.500 V	± 1 mV	1 Ω
PW36-1.5ADP	CH1	0.150 A	0.150 V	± 1 mV	1 Ω
	CH2	0.150 A	0.150 V	± 1 mV	1 Ω
PW18-1.3ATS	CH1	0.130 A	0.130 V	± 1 mV	1 Ω
	CH2	-0.130 A	-0.130 V	± 1 mV	1 Ω
	CH3	0.500 A	0.500 V	± 1 mV	1 Ω
PW26-1ATS	CH1	0.100 A	1.000 V	± 1 mV	1 Ω
	CH2	0.100A	1.000 V	± 1 mV	1 Ω
	CH3	0.500 A	0.500 V	± 1 mV	1 Ω

urrent adjustment end, when adjust other channels, adjust in the same procedure from 5-4-2.
ending current adjustment, press the long pushing of KEYLOCK key (more than 2 seconds), cancel the current
ment mode.

he end of adjustment

complete all adjustments of the voltage current of each output, turn OFF a power supply switch.
Or press the long pushing of KEYLOCK key {2 seconds or more} several times {3 times or more}, and escape from
e adjustment mode. And turn OFF the power supply switch)

e model with YB is all the same as the basic model.

MODEL NAME	MODEL No.	PANEL UNIT X66-1820-xx	POWER SUPPLY UNIT X68-2210-xx	POWER SUPPLY UNIT X68-2300-xx	AMP UNIT X73-2320-xx	CPU UNIT X77-2380-xx
PW18-1.8AQ	Y86-3090-00	02	00	—	00	00
PW18-1.3AT	Y86-3100-00	01	01	—	01	01
PW18-1.3ATS	Y86-3100-02	01	09	—	01	01
PW18-3AD	Y86-3110-00	00	02	—	02	02
PW36-1.5AD	Y86-3120-00	00	03	—	03	03
PW18-3ADP	Y86-3130-00	00	04	—	04	04
PW18-2ATP	Y86-3140-00	01	05	—	05	05
PW16-5ADP	Y86-3430-00	00	—	00	06	04
PW8-3ATP	Y86-3440-00	01	06	—	07	05
PW26-1AT	Y86-3450-00	01	07	—	08	01
PW26-1ATS	Y86-3450-02	01	11	—	08	01
PW36-1.5ADP	Y86-3460-00	00	08	—	09	04

MODEL NAME	MODEL No.	ORIGINAL MODEL	OP-19A ~ H Y87-4150-xx	INPUT UNIT X72-1620-xx
PW18-1.8AQYB	Y87-4170-00	Y86-3090-00	OP-19A / 00	00
PW18-1.3ATYB	Y87-4180-00	Y86-3100-00	OP-19B / 01	01
PW18-1.3ATSYB	Y87-4270-00	Y86-3100-02	OP-19B / 01	01
PW18-3ADYB	Y87-4190-00	Y86-3110-00	OP-19E / 04	04
PW36-1.5ADYB	Y87-4200-00	Y86-3120-00	OP-19F / 05	05
PW18-3ADPYB	Y87-4210-00	Y86-3130-00	OP-19G / 06	06
PW18-2ATPYB	Y87-4220-00	Y86-3140-00	OP-19D / 03	03
PW16-5ADPYB	Y87-4230-00	Y86-3430-00	OP-19G / 06	06
PW8-3ATPYB	Y87-4240-00	Y86-3440-00	OP-19C / 02	02
PW26-1ATYB	Y87-4250-00	Y86-3450-00	OP-19B / 01	01
PW26-1ATSYB	Y87-4280-02	Y86-3450-02	OP-19B / 01	01
PW36-1.5ADPYB	Y87-4260-00	Y86-3460-00	OP-19H / 07	07

MODEL NAME	MODEL No.	INTERFACE UNIT X72-1540-xx
IF-40GU	Y87-4020-00	X72-1540-00
IF-40RS	Y87-4030-00	X72-1540-01
IF-40USB	Y87-4140-00	X72-1540-02

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Parts No.	-00	-02	Name & Description
PW18-1.3AT (Y86-3100-00) PW18-1.3ATS (Y86-3100-02)			
A01-4125-01	1	1	CASE; TOP
A13-2280-11	1	1	FRAME;
A29-0526-04	1	1	PANEL
A40-0733-01	1	1	CASE; BOTTOM
A63-0426-12	1		FRONT PANEL (PW18-1.3AT)
A63-0469-02		1	FRONT PANEL (PW18-1.3ATS)
A83-0231-03	1	1	REAR PANEL
B09-0408-03	2	2	CAP
B11-0600-23	1	1	FILTER
B41-2083-04	1	1	CAUTION LABEL; PL GND
B42-3819-05	1	1	SERIAL NO. PLATE
B42-6230-05	2	2	MODEL NO. PLATE
B63-0541-10	1	1	INSTRUCTION MANUAL; JAPANESE
B63-0542-10			INSTRUCTION MANUAL; ENGLISH
E21-0825-13	6	6	TERMINAL
E29-0506-04	1	1	SHORTING BAR
E29-0565-04		2	SHORTING BAR (PW18-1.3ATS)
E30-1929-05			BS POWER CORD
E30-1952-05			CEE POWER CORD
E30-1967-05	1	1	JIS POWER CORD
E70-0653-03	1		TERMINAL BLOCK (PW18-1.3AT)
E70-0681-03		1	TERMINAL BLOCK (PW18-1.3ATS)
F01-2414-01	1	1	HEAT SINK
F05-1623-05			FUSE T1.6A/250V (5✻20)
F05-3121-05	1	1	FUSE T3.15A/250V (5✻20)
F07-1538-03	1	1	COVER; TOP
F09-0535-05	1	1	FAN
F10-2596-04	1	1	SHIELD PLATE
F20-3080-03	1	1	INSULATOR SHEET; TOP
F20-3081-12	1	1	INSULATOR SHEET; CPU UNIT
F20-3086-03	1	1	INSULATOR SHEET; AMP UNIT
F20-3087-03	1	1	INSULATOR SHEET; AMP UNIT
F20-3088-14	2	2	INSULATOR SHEET; HEAT SINK
H10-2906-15	1	1	FOAMED STYREN PAD; FRONT
H10-2907-15	1	1	FOAMED STYREN PAD; REAR
H13-1213-05	1	1	CARTON BOARD
H20-1743-04	1	1	VINYL COVER
H53-0368-03	1	1	CARTON BOX
J02-0363-04	4	4	RUBBER FOOT
J21-4843-04	2	2	BRACKET; HANDLE
J21-9047-04	3	3	BRACKET; FET
J21-9048-02	1	1	BRACKET; POWER TRANSFORMER
J32-1295-05		2	BOSS (PW18-1.3ATS)
J59-0403-05	4	4	NYLON RIVET
K01-0556-15	1	1	HANDLE
K21-0907-14	1	1	KNOB; ENCORDER
K29-7251-11	1	1	BUTTON; CLEAR
K29-7257-02	2	2	KNOB; TERMINAL (RED)
K29-7258-02	1	1	KNOB; TERMINAL (BLACK)
K29-7259-02	1	1	KNOB; TERMINAL (WHITE)
K29-7260-02	2	2	KNOB; TERMINAL (BLUE)

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Parts No.	-00	-02	Name & Description
L07-1588-05	1	1	POWER TRANSFORMER
N09-4557-05	4	4	SCREW, SEMS PAN HD (M4✻60)
N09-4558-05	2	2	SPECIAL SCREW (M3✻6)
N10-2030-41		2	HEXAGON NUT (PW18-1.3ATS)
N11-0030-41	1	1	FRANGE NUT (M3)
N11-0040-41	2	2	FRANGE NUT (M4)
N15-1030-41		2	PLAIN WASHER (PW18-1.3ATS)
N16-0030-41		2	SPRING WASHER (PW18-1.3ATS)
N17-1030-41		2	TOOTHED LOCK WASHER (PW18-1.3ATS)
N32-3008-41	1	1	SCSREW, FLAT HD (M3✻8)
N32-4010-41	2	2	SCSREW, FLAT HD (M4✻10)
N33-3006-41	6	6	SCREW, OVAL HD (M3✻6)
N35-3004-41		2	SCREW, BINDING HD (M3✻4) (PW18-1.3ATS)
N66-3008-41	28	28	SCREW, SEMS PAN HD (M3✻8)
N66-4008-41	4	4	SCREW, SEMS PAN HD (M4✻8)
N66-4010-41	8	8	SCREW, SEMS PAN HD (M4✻10)
N66-4035-41	2	2	SCREW, SEMS PAN HD (M4✻35)
N67-3010-41	5	5	SCREW, SEMS PAN HD (M3✻10)
N67-3016-41	5	5	SCREW, SEMS PAN HD (M3✻16)
X66-1820-01	1	1	PANEL UNIT
X68-2210-01	1		POWER SUPPLY UNIT (PW18-1.3AT)
X68-2210-09		1	POWER SUPPLY UNIT (PW18-1.3ATS)
X73-2320-01	1	1	AMP UNIT
X77-2380-01	1	1	CPU UNIT
PW26-1AT (Y86-3450-00) PW26-1ATS (Y86-3450-02)			
A01-4125-01	1	1	CASE; TOP
A13-2280-11	1	1	FRAME;
A29-0526-04	1	1	PANEL
A40-0733-01	1	1	CASE; BOTTOM
A63-0463-02	1		FRONT PANEL (PW26-1AT)
A63-0468-02		1	FRONT PANEL (PW26-1ATS)
A83-0231-03	1	1	REAR PANEL
B09-0408-03	2	2	CAP
B11-1721-03	1	1	FILTER
B41-2083-04	1	1	CAUTION LABEL; PL GND
B42-3819-05	1	1	SERIAL NO. PLATE
B42-6230-05	2	2	MODEL NO. PLATE
B63-0541-10	1	1	INSTRUCTION MANUAL; JAPANESE
B63-0542-10			INSTRUCTION MANUAL; ENGLISH
E21-0825-13	6	6	TERMINAL
E29-0506-04	1	1	SHORTING BAR (PW26-1AT)
E29-0565-04		2	SHORTING BAR (PW26-1ATS)
E30-1929-05			BS POWER CORD
E30-1952-05			CEE POWER CORD
E30-1967-05	1	1	JIS POWER CORD
E70-0653-03	1		TERMINAL BLOCK (PW26-1AT)
E70-0681-03		1	TERMINAL BLOCK (PW26-1ATS)
F01-2414-01	1	1	HEAT SINK
F05-1623-05			FUSE T1.6A/250V (5✻20)
F05-3121-05	1	1	FUSE T3.15A/250V (5✻20)
F07-1538-03	1	1	COVER; TOP
F09-0535-05	1	1	FAN

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❸

Parts No.	-00	-02	Name & Description
F10-2596-04	1	1	SHIELD PLATE
F20-3080-03	1	1	INSULATOR SHEET; TOP
F20-3081-12	1	1	INSULATOR SHEET; CPU UNIT
F20-3086-03	1	1	INSULATOR SHEET; AMP UNIT
F20-3087-03	1	1	INSULATOR SHEET; AMP UNIT
F20-3088-14	2	2	INSULATOR SHEET; HEAT SINK
H10-2906-15	1	1	FOAMED STYREN PAD; FRONT
H10-2907-15	1	1	FOAMED STYREN PAD; REAR
H13-1213-05	1	1	CARTON BOARD
H20-1743-04	1	1	VINYL COVER
H53-0368-03	1	1	CARTON BOX
J02-0363-04	4	4	RUBBER FOOT
J21-4843-04	2	2	BRACKET; HANDLE
J21-9047-04	3	3	BRACKET; FET
J21-9048-02	1	1	BRACKET; POWER TRANSFORMER
J32-1295-05		2	BOSS
J59-0403-05	4	4	NYLON RIVET
K01-0556-15	1	1	HANDLE
K21-0907-14	1	1	KNOB; ENCORDER
K29-7251-11	1	1	BUTTON; CLEAR
K29-7257-02	2	2	KNOB; TERMINAL (RED)
K29-7258-02	1	1	KNOB; TERMINAL (BLACK)
K29-7259-02	1	1	KNOB; TERMINAL (WHITE)
K29-7260-02	2	2	KNOB; TERMINAL (BLUE)
L07-1597-05	1	1	POWER TRANSFORMER
N09-4557-05	4	4	SCREW, SEMS PAN HD (M4✻60)
N09-4558-05	2	2	SPECIAL SCREW (M3✻6)
N10-2030-41		2	HEXAGON NUT
N11-0030-41	1	1	FRANGE NUT (M3)
N11-0040-41	2	2	FRANGE NUT (M4)
N15-1030-41		2	PLAIN WASHER
N16-0030-41		2	SPRING WASHER
N17-1030-41		2	TOOTHED LOCK WASHER
N32-3008-41	1	1	SCSREW, FLAT HD (M3✻8)
N32-4010-41	2	2	SCSREW, FLAT HD (M4✻10)
N33-3006-41	6	6	SCREW, OVAL HD (M3✻6)
N35-3004-41		2	SCREW, BINDING HD (M3✻4)
N66-3008-41	27	27	SCREW, SEMS PAN HD (M3✻8)
N66-4008-41	4	4	SCREW, SEMS PAN HD (M4✻8)
N66-4010-41	8	8	SCREW, SEMS PAN HD (M4✻10)
N66-4035-41	2	2	SCREW, SEMS PAN HD (M4✻35)
N67-3010-41	5	5	SCREW, SEMS PAN HD (M3✻10)
N67-3016-41	5	5	SCREW, SEMS PAN HD (M3✻16)
X66-1820-01	1	1	PANEL UNIT
X68-2210-07	1		POWER SUPPLY UNIT (PW26-1AT)
X68-2210-11		1	POWER SUPPLY UNIT (PW26-1ATS)
X73-2320-08	1	1	AMP UNIT
X77-2380-01	1	1	CPU UNIT

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Parts No.	Name & Description
	IF-40GU (Y87-4020-00)
A29-0527-24	PANEL; IF GP
B42-3819-05	SERIAL NO. PLATE
B42-3821-05	LABEL (7✻3)
B63-0567-10	INSTRUCTION MANUAL
F20-3090-14	INSULATOR SHEET
H25-0858-04	VINYL COVER
H53-0335-04	CARTON BOX
J59-0403-05	NYLON RIVET
X72-1540-00	INTERFACE UNIT
	IF-40RS (Y87-4030-00)
A29-0528-04	PANEL; IF RS
B42-3819-05	SERIAL NO. PLATE
B42-3821-05	LABEL (7✻3)
B63-0567-10	INSTRUCTION MANUAL
F20-3090-14	INSULATOR SHEET
H25-0858-04	VINYL COVER
H53-0335-04	CARTON BOX
J59-0403-05	NYLON RIVET
N09-4535-05	SPECIAL SCREW
X72-1540-01	INTERFACE UNIT
	IF-40USB (Y87-4140-00)
A29-0533-04	PANEL; IF USB
B42-3819-05	SERIAL NO. PLATE
B42-3821-05	LABEL; 7✻3
B63-0567-10	INSTRUCTION MANUAL
F20-3090-14	INSULATOR SHEET
F20-3096-04	INSULATOR SHEET
H25-0858-04	VINYL COVER
H53-0335-04	CARTON BOX
J21-9101-04	BRACKET
J59-0403-05	NYLON RIVET
N67-3008-41	SCREW, SEMS PAN HD (M3✻8)
X72-1540-02	INTERFACE UNIT

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Parts No.	A -00	B -01	C -02	D -03	E -04	F -05	G -06	H -07	Name & Description
OP-19A~H (Y87-4150-XX)									
F20-3094-04	4	4	4	4	2	2	2	2	INSULATOR SHEET
J21-9103-04	2	2	2	2	1	1	1	1	BRACKET
N67-3012-41	4	4	4	4	2	2	2	2	SCREW, SEMS PAN HD (3✻12)
X72-1620-00	1								INPUT UNIT
X72-1620-01		1							INPUT UNIT
X72-1620-02			1						INPUT UNIT
X72-1620-03				1					INPUT UNIT
X72-1620-04					1				INPUT UNIT
X72-1620-05						1			INPUT UNIT
X72-1620-06							1		INPUT UNIT
X72-1620-07								1	INPUT UNIT

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Parts No.	Name & Description
YB SERIES (Y87-4170-XX)	
B42-3820-05	LABEL
Y87-4150-00	OP-19A (PW18-1.8AQYB)
Y87-4150-01	OP-19B (PW18-1.3ATYB/PW18-1.3ATSYB/PW26-1ATYB/PW26-1ATSYB)
Y87-4150-02	OP-19C (PW8-3ATPYB)
Y87-4150-03	OP-19D (PW18-2ATPYB)
Y87-4150-04	OP-19E (PW18-3ADYB)
Y87-4150-05	OP-19F (PW36-1.5ADYB)
Y87-4150-06	OP-19G (PW18-3ADPYB/PW16-5ADPYB)
Y87-4150-07	OP-19H (PW36-1.5ADPYB)

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	PW-A SERIES
A01-4125-01	CASE; TOP
A13-2280-11	FRAME; AC INLET
A29-0526-04	PANEL
A40-0733-01	CASE; BOTTOM
A63-0423-12	FRONT PANEL (PW18-1.8AQ)
A63-0427-12	FRONT PANEL (PW18-3AD)
A63-0428-12	FRONT PANEL (PW36-1.5AD)
A63-0429-12	FRONT PANEL (PW18-2ATP)
A63-0430-12	FRONT PANEL (PW18-3ADP)
A63-0461-02	FRONT PANEL (PW16-5ADP)
A63-0462-02	FRONT PANEL (PW8-3ATP)
A63-0464-02	FRONT PANEL (PW36-1.5ADP)
A83-0231-03	REAR PANEL
B09-0408-03	CAP
B11-0597-23	FILTER (PW18-1.8AQ)
B11-1701-23	FILTER (PW18-3AD)
B11-1702-23	FILTER (PW36-1.5AD)
B11-1703-23	FILTER (PW18-2ATP)
B11-1704-23	FILTER (PW18-3ADP)
B11-1719-03	FILTER (PW16-5ADP)
B11-1720-03	FILTER (PW8-3ATP)
B11-1722-03	FILTER (PW36-1.5ADP)
B41-2083-04	CAUTION LABEL; PL GND
B42-3819-05	SERIAL NO. PLATE
B42-6230-05	MODEL NO. PLATE
B63-0541-10	INSTRUCTION MANUAL; JAPANESE
B63-0542-10	INSTRUCTION MANUAL; ENGLISH
E21-0825-13	TERMINAL
E29-0506-04	SHORTING BAR
E30-1929-05	BS POWER CORD
E30-1952-05	CEE POWER CORD
E30-1967-05	JIS POWER CORD
E70-0653-03	TERMINAL BLOCK (PW18-1.8AQ, PW18-2ATP, PW8-3ATP)
E70-0654-03	TERMINAL BLOCK (PW18-3AD, PW36-1.5AD, PW18-3ADP, PW16-5ADP, PW36-1.5ADP)
F01-2414-01	HEAT SINK
F05-1623-05	FUSE T1.6A/250V (5✻20)
F05-3121-05	FUSE T3.15A/250V (5✻20)
F07-1538-03	COVER; TOP (REAR PANEL)
F09-0535-05	FAN
F10-2596-04	SHIELD PLATE
F20-3080-03	INSULATOR SHEET; TOP
F20-3081-12	INSULATOR SHEET; CPU UNIT
F20-3086-03	INSULATOR SHEET; AMP UNIT
F20-3087-03	INSULATOR SHEET; AMP UNIT
F20-3088-14	INSULATOR SHEET; HEAT SINK
H10-2906-15	FOAMED STYREN PAD; FRONT
H10-2907-15	FOAMED STYREN PAD; REAR
H13-1213-05	CARTON BOARD
H20-1743-04	VINYL COVER
H53-0368-03	CARTON BOX
J02-0363-04	RUBBER FOOT
J21-4843-04	BRACKET; HANDLE

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Parts No.	Name & Description
J21-9047-04	BRACKET; FET
J21-9048-02	BRACKET; POWER TRANSFORMER
J59-0403-05	NYLON RIVET
K01-0556-15	HANDLE
K21-0907-14	KNOB; ENCORDER
K29-7245-11	BUTTON; CLEAR (PW18-1.8AQ)
K29-7251-11	BUTTON; CLEAR (PW18-2ATP, PW8-3ATP)
K29-7252-11	BUTTON; CLEAR (PW18-3AD, PW36-1.5AD, PW18-3ADP, PW16-5ADP, PW36-1.5ADP)
K29-7257-02	KNOB; TERMINAL (RED)
K29-7258-02	KNOB; TERMINAL (BLACK)
K29-7259-02	KNOB; TERMINAL (WHITE) (PW18-1.8AQ, PW18-3AD, PW36-1.5AD)
K29-7260-02	KNOB; TERMINAL (BLUE)
L07-1587-05	POWER TRANSFORMER (PW18-1.8AQ)
L07-1589-05	POWER TRANSFORMER (PW18-3AD, PW18-3ADP)
L07-1590-05	POWER TRANSFORMER (PW36-1.5AD, PW36-1.5ADP)
L07-1591-05	POWER TRANSFORMER (PW18-2ATP)
L07-1595-05	POWER TRANSFORMER (PW16-5ADP)
L07-1596-05	POWER TRANSFORMER (PW8-3ATP)
N09-4557-05	SCREW, SEMS PAN HD (M4✻60)
N09-4558-05	SPECIAL SCREW (M3✻6)
N11-0030-41	FRANGE NUT (M3)
N11-0040-41	FRANGE NUT (M4)
N32-3008-41	SCSREW, FLAT HD (M3✻8)
N32-4010-41	SCSREW, FLAT HD (M4✻10)
N33-3006-41	SCREW, OVAL HD (M3✻6)
N66-3008-41	SCREW, SEMS PAN HD (M3✻8)
N66-4008-41	SCREW, SEMS PAN HD (M4✻8)
N66-4010-41	SCREW, SEMS PAN HD (M4✻10)
N66-4035-41	SCREW, SEMS PAN HD (M4✻35)
N67-3010-41	SCREW, SEMS PAN HD (M3✻10)
N67-3016-41	SCREW, SEMS PAN HD (M3✻16)
X66-1820-xx	PANEL UNIT
X68-2210-xx	POWER SUPPLY UNIT
X68-2300-00	POWER SUPPLY UNIT (PW16-5ADP)
X73-2320-xx	AMP UNIT
X77-2380-xx	CPU UNIT

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Ref. No	-00	-01	-02	Parts No.	Name & Description			
PANEL UNIT (X66-1820-XX)								
	0.5	0.5	0.5	J73-0749-03	PCB(UNMOUNTED)			
C1	1	1	1	CK73GB1H103K	CAP. CERAMIC	0.01µ	10%	50V
C2	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C3	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C4	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C5	1	1	1	CK73GB1H103K	CAP. CERAMIC	0.01µ	10%	50V
CN2	1	1	1	E40-5314-05	PIN CONNECTOR	25P		
D1	1	1	1	B30-3058-05	LED; RED			
D2	1	1	1	B30-3058-05	LED; RED			
D3	1	1	1	B30-3058-05	LED; RED			
D4	1	1	1	B30-3058-05	LED; RED			
D5	1	1	1	B30-3058-05	LED; RED			
D6	1	1	1	B30-3058-05	LED; RED			
D7	1	1	1	B30-3058-05	LED; RED			
D8	1	1	1	B30-3058-05	LED; RED			
D9	1	1	1	B30-3058-05	LED; RED			
D10	1	1	1	B30-3058-05	LED; RED			
D11	1	1	1	B30-3058-05	LED; RED			
ED1	1	1	1	B30-3045-05	LED; 7-SEGMENT			
ED2	1	1	1	B30-3045-05	LED; 7-SEGMENT			
ED3	1	1	1	B30-3045-05	LED; 7-SEGMENT			
ED4	1	1	1	B30-3045-05	LED; 7-SEGMENT			
ED5	1	1	1	B30-3045-05	LED; 7-SEGMENT			
ED6	1	1	1	B30-3045-05	LED; 7-SEGMENT			
ED7	1	1	1	B30-3045-05	LED; 7-SEGMENT			
ED8	1	1	1	B30-3045-05	LED; 7-SEGMENT			
IC1	1	1	1	TB62709F	IC			
IC2	1	1	1	TB62709F	IC			
IC3	1	1	1	TB62709F	IC			
R1	1	1	1	RK73FB2A472J	RES.CHIP (2✻1.25)	4.7k	5%	1/10W
R2	1	1	1	RK73FB2A472J	RES.CHIP (2✻1.25)	4.7k	5%	1/10W
R3	1	1	1	RK73FB2A102J	RES.CHIP (2✻1.25)	1k	5%	1/10W
R4	1	1	1	RK73FB2A101J	RES.CHIP (2✻1.25)	100	5%	1/10W
R5	1	1	1	RK73FB2A101J	RES.CHIP (2✻1.25)	100	5%	1/10W
R6	1	1	1	RK73FB2A101J	RES.CHIP (2✻1.25)	100	5%	1/10W
R7	1	1	1	RK73FB2A101J	RES.CHIP (2✻1.25)	100	5%	1/10W
R8	1	1	1	RK73FB2A101J	RES.CHIP (2✻1.25)	100	5%	1/10W
R9	1	1	1	RK73FB2A101J	RES.CHIP (2✻1.25)	100	5%	1/10W
R10	1	1	1	RK73FB2A101J	RES.CHIP (2✻1.25)	100	5%	1/10W
R11	1	1	1	RK73FB2A101J	RES.CHIP (2✻1.25)	100	5%	1/10W
R12	1			RK73FB2A101J	RES.CHIP (2✻1.25)	100	5%	1/10W
R13		1		RK73FB2A101J	RES.CHIP (2✻1.25)	100	5%	1/10W
R14			1	RK73FB2A101J	RES.CHIP (2✻1.25)	100	5%	1/10W
S1	1	1	1	S70-0644-05	TACT SWITCH			
S2	1	1	1	S70-0644-05	TACT SWITCH			
S3	1	1	1	S70-0644-05	TACT SWITCH			
S4	1	1	1	S70-0644-05	TACT SWITCH			
S5	1	1	1	S70-0644-05	TACT SWITCH			
S6	1	1	1	S70-0644-05	TACT SWITCH			
S7	1	1	1	S70-0644-05	TACT SWITCH			
S8	1	1	1	S70-0644-05	TACT SWITCH			

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S9	1	1	1	S70-0645-05	TACT SWITCH
S10	1	1	1	S70-0645-05	TACT SWITCH
S11		1	1	S70-0645-05	TACT SWITCH
S12			1	S70-0645-05	TACT SWITCH
S13	1	1	1	S70-0646-05	TACT SWITCH
S14	1	1	1	S70-0646-05	TACT SWITCH
S15	1	1	1	S70-0645-05	TACT SWITCH
S16	1	1	1	S70-0645-05	TACT SWITCH
S17		1	1	S70-0645-05	TACT SWITCH
S18			1	S70-0645-05	TACT SWITCH
S19	1	1	1	S70-0646-05	TACT SWITCH
S20	1	1	1	S70-0646-05	TACT SWITCH
S21	1	1	1	S70-0644-05	TACT SWITCH
S22	1	1	1	S70-0644-05	TACT SWITCH
S23	1	1	1	S70-0646-05	TACT SWITCH
S24	1	1	1	S70-0644-05	TACT SWITCH
S25	1	1	1	W02-4039-05	ROTARY ENCODER

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POWER SUPPLY UNIT (X68-2210-XX)													
	1	1	1	1	1	1	1	1	1	1	1	J30-0671-04	SPACER
	1	1	1	1	1	1	1	1	1	1	1	J73-0750-22	PCB(UNMOUNTED)
C101	1	1	1	1	1	1	1	1	1	1	1	CQ93FMG1H103J	CAP. PLASTIC FILM 0.01µ 5% 50V
C102	1	1	1	1	1	1	1	1	1	1	1	C90-4747-05	CAP. ELECTRO 3300µ 20% 25V
C103	1	1	1	1	1	1	1	1	1	1	1	CQ93FMG1H103J	CAP. PLASTIC FILM 0.01µ 5% 50V
C104		1	1	1	1	1	1	1	1	1	1	C90-4749-05	CAP. ELECTRO 2200µ 20% 35V
C104	1											C90-4750-05	CAP. ELECTRO 3300µ 20% 35V
C105		1	1	1	1	1	1	1	1	1	1	C90-4749-05	CAP. ELECTRO 2200µ 20% 35V
C105	1											C90-4750-05	CAP. ELECTRO 3300µ 20% 35V
C106		1				1	1	1		1	1	CQ93FMG1H103J	CAP. PLASTIC FILM 0.01µ 5% 50V
C107		1				1	1	1		1	1	C90-4749-05	CAP. ELECTRO 2200µ 20% 35V
C108		1				1	1	1		1	1	C90-4749-05	CAP. ELECTRO 2200µ 20% 35V
C109	1	1	1	1	1	1	1	1	1	1	1	C90-4749-05	CAP. ELECTRO 2200µ 20% 35V
C110	1	1	1	1	1	1	1	1	1	1	1	C90-4824-05	CAP. ELECTRO 100µ 20% 6.3V
C111	1	1	1	1	1	1	1	1	1	1	1	C90-4824-05	CAP. ELECTRO 100µ 20% 6.3V
C112	1	1	1	1	1	1	1	1	1	1	1	C90-4824-05	CAP. ELECTRO 100µ 20% 6.3V
C113		1				1	1	1		1	1	C90-4824-05	CAP. ELECTRO 100µ 20% 6.3V
C114		1				1	1	1		1	1	C90-4824-05	CAP. ELECTRO 100µ 20% 6.3V
C115	1	1	1	1	1	1	1	1	1	1	1	C91-1128-05	CAP.CERAMIC 0.1µ -25 50V
C116	1	1	1	1	1	1	1	1	1	1	1	C91-1128-05	CAP.CERAMIC 0.1µ -25 50V
C118	1	1	1	1	1	1	1	1	1	1	1	C90-4825-05	CAP. ELECTRO 47µ 20% 16V
C119	1	1	1	1	1	1	1	1	1	1	1	C90-4825-05	CAP. ELECTRO 47µ 20% 16V
C120	1	1	1	1	1	1	1	1	1	1	1	C90-4825-05	CAP. ELECTRO 47µ 20% 16V
C123	1	1	1	1	1	1	1	1	1	1	1	C90-4825-05	CAP. ELECTRO 47µ 20% 16V
C201							1					CE04BW1C471M	CAP. ELECTRO 470µ 20% 16V
C201	1	1	1		1					1		CE04BW1E471M	CAP. ELECTRO 470µ 20% 25V
C201				1		1		1	1		1	CE04BW1H101M	CAP. ELECTRO 100µ 20% 50V
C202				1		1		1	1		1	CE04BW1H101M	CAP. ELECTRO 100µ 20% 50V
C203							1					CE04BW1C471M	CAP. ELECTRO 470µ 20% 16V
C203	1	1	1		1	1				1		CE04BW1E471M	CAP. ELECTRO 470µ 20% 25V
C203				1				1	1		1	CE04BW1H101M	CAP. ELECTRO 100µ 20% 50V
C204				1				1	1		1	CE04BW1H101M	CAP. ELECTRO 100µ 20% 50V
C205	1											CE04BW1C471M	CAP. ELECTRO 470µ 20% 16V
C206	1											CE04BW1A221M	CAP. ELECTRO 220µ 20% 10V
C207		1						1		1	1	CE04BW1A102M	CAP. ELECTRO 1000µ 20% 10V
C207						1						CE04BW1C471M	CAP. ELECTRO 470µ 20% 16V
C207							1					CE04BW1E471M	CAP. ELECTRO 470µ 20% 25V
C208	1	1	1	1	1	1	1	1	1	1	1	C91-2698-05	CAP. FILM 0.01µ 10% 630V
C209		1				1	1	1		1	1	C91-2698-05	CAP. FILM 0.01µ 10% 630V
C210										1	1	C90-4825-05	CAP. ELECTRO 47µ 20% 16V
C211										1	1	C90-4825-05	CAP. ELECTRO 47µ 20% 16V
C301			1		1							C90-4752-05	CAP. ELECTRO 12000µ 20% 50V
C301	1											C90-4753-05	CAP. ELECTRO 6800µ 20% 50V
C301						1						C90-4754-05	CAP. ELECTRO 5600µ 20% 80V
C301				1								C90-4755-05	CAP. ELECTRO 6800µ 20% 80V
C301		1								1		C90-4827-05	CAP. ELECTRO 4700µ 20% 50V
C301							1					C90-4839-05	CAP. ELECTRO 22000µ 20% 25V
C301								1			1	C90-4843-05	CAP. ELECTRO 4700µ 20% 63V
C301									1			C90-4845-05	CAP. ELECTRO 6800µ 20% 80V
C302			1		1							C90-4752-05	CAP. ELECTRO 12000µ 20% 50V
C302	1					1						C90-4753-05	CAP. ELECTRO 6800µ 20% 50V
C302				1								C90-4755-05	CAP. ELECTRO 6800µ 20% 80V
C302		1								1		C90-4827-05	CAP. ELECTRO 4700µ 20% 50V

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C302							1					C90-4839-05	CAP. ELECTRO 22000µ 20% 25V
C302								1			1	C90-4843-05	CAP. ELECTRO 4700µ 20% 63V
C302									1			C90-4845-05	CAP. ELECTRO 6800µ 20% 80V
C303		1								1		C90-4751-05	CAP. ELECTRO 27000µ 20% 25V
C303	1					1						C90-4826-05	CAP. ELECTRO 6800µ 20% 25V
C303								1			1	C90-4840-05	CAP. ELECTRO 27000µ 20% 25V
C303							1					C90-4847-05	CAP. ELECTRO 3300µ 20% 80V
C304	1											C90-4747-05	CAP. ELECTRO 3300µ 20% 25V
C304		1								1		C90-4751-05	CAP. ELECTRO 27000µ 20% 25V
C304								1			1	C90-4840-05	CAP. ELECTRO 27000µ 20% 25V
C304							1					C90-4847-05	CAP. ELECTRO 3300µ 20% 80V
C401	1	1	1		1	1	1			1	1	CF92JV1H104J	CAP. METAL FILM 0.1µ 5% 50V
C402	1	1	1		1		1	1		1	1	CF92JV1H104J	CAP. METAL FILM 0.1µ 5% 50V
C403	1	1					1			1		CF92JV1H104J	CAP. METAL FILM 0.1µ 5% 50V
C404	1	1				1	1			1		CF92JV1H104J	CAP. METAL FILM 0.1µ 5% 50V
C405				1		1		1	1		1	C91-2896-05	CAP. FILM 0.1µ 10% 100V
C406				1				1	1		1	C91-2896-05	CAP. FILM 0.1µ 10% 100V
CN101		1				1	1	1		1	1	E40-3305-05	PIN CONNECTOR 8P
CN102		1				1	1	1		1	1	E40-7858-05	PIN CONNECTOR 9P
CN103	1	1	1	1	1	1	1	1	1	1	1	E40-7808-05	BORDE CONNECTOR 17P
CN104	1	1	1	1	1	1	1	1	1	1	1	E40-3299-05	PIN CONNECTOR 2P
CN105	1		1	1	1			1				E40-3302-05	PIN CONNECTOR 5P
CN201	1	1	1	1	1	1	1	1	1	1	1	E40-3369-05	PIN CONNECTOR 10P
CN202	1	1				1	1	1		1	1	E40-3367-05	PIN CONNECTOR 8P
CN203	1	1	1	1	1	1	1	1	1	1	1	E40-3299-05	PIN CONNECTOR 2P
CN301	1	1	1	1	1	1	1	1	1	1	1	E40-7292-05	PIN CONNECTOR 8P
CN302	1	1				1	1	1		1	1	E40-7392-05	PIN CONNECTOR 6P
CN303	1	1	1	1	1	1	1	1	1	1	1	E40-7292-05	PIN CONNECTOR 8P
CN304	1	1				1	1	1		1	1	E40-7292-05	PIN CONNECTOR 8P
CN401	1	1	1	1	1	1	1	1	1	1	1	E40-3367-05	PIN CONNECTOR 8P
CN402	1	1				1	1	1		1	1	E40-3365-05	PIN CONNECTOR 6P
CN403	1	1				1	1	1		1	1	E40-7859-05	PIN CONNECTOR 8P
CN404				1					1			E40-7669-05	PIN CONNECTOR 4P
CN405			1		1							E40-7669-05	PIN CONNECTOR 4P
CN501	1	1	1	1	1	1	1	1	1	1	1	E40-7627-05	PIN CONNECTOR 5P
CN502	1	1	1	1	1	1	1	1	1	1	1	E40-7627-05	PIN CONNECTOR 5P
D101	1	1	1	1	1	1	1	1	1	1	1	S1VB20	DIODE
D102	1	1	1	1	1	1	1	1	1	1	1	S1VB20	DIODE
D103		1				1	1	1		1	1	S1VB20	DIODE
D104	1	1	1	1	1	1	1	1	1	1	1	DSM1D2	DIODE
D105	1	1	1	1	1	1	1	1	1	1	1	DSM1D2	DIODE
D106	1	1	1	1	1	1	1	1	1	1	1	MTZ16JB	DIODE, ZENER
D107	1	1	1	1	1	1	1	1	1	1	1	1SS133	DIODE
D108	1	1	1	1	1	1	1	1	1	1	1	MTZ11JC	DIODE, ZENER
D201										1	1	DSM1D2	DIODE
D202										1	1	DSM1D2	DIODE
D203										1	1	DSM1D2	DIODE
D204										1	1	DSM1D2	DIODE
D205										1	1	DSM1D2	DIODE
D206										1	1	DSM1D2	DIODE
D401	1	1				1	1			1		S4VB20	DIODE
D401				1		1		1			1	S5VB20	DIODE
D402	1	1					1			1		S4VB20	DIODE
D402				1		1		1			1	S5VB20	DIODE

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❸

Ref. No	–00	–01	–02	–03	–04	–05	–06	–07	–08	–09	–11	Parts No.	Name & Description			
D403	1	1		1		1	1	1	1	1	1	S4VB20	DIODE			
D404	1	1		1		1	1	1	1	1	1	S4VB20	DIODE			
IC101	1	1	1	1	1	1	1	1	1	1	1	TA7805S	IC			
IC102	1	1	1	1	1	1	1	1	1	1	1	TA7805S	IC			
IC103	1	1	1	1	1	1	1	1	1	1	1	TA79005S	IC			
IC104		1				1	1	1		1	1	TA7805S	IC			
IC105		1				1	1	1		1	1	TA79005S	IC			
IC106	1	1	1	1	1	1	1	1	1	1	1	NJM4558D	IC			
IC107	1	1	1	1	1	1	1	1	1	1	1	TA79L012P	IC			
P301	1	1	1	1	1	1	1	1	1	1	1	E23-1516-05	TERMINAL SCREW			
P302	1	1	1	1	1	1	1	1	1	1	1	E23-1516-05	TERMINAL SCREW			
P401	1	1	1	1	1	1	1	1	1	1	1	E23-0401-05	TERMINAL			
P402	1	1	1	1	1	1	1	1	1	1	1	E23-0401-05	TERMINAL			
P403	1	1	1	1	1	1	1	1	1	1	1	E23-0401-05	TERMINAL			
P404	1	1	1	1	1	1	1	1	1	1	1	E23-0401-05	TERMINAL			
Q101	1	1	1	1	1	1	1	1	1	1	1	2SC4793	TR.SI, NPN			
R106	1	1	1	1	1	1	1	1	1	1	1	RD14BB2C471J	RES. CARBON	470	5%	1/6W
R107	1	1	1	1	1	1	1	1	1	1	1	RN14BK2C5600F	RES. METAL FILM	560	1%	1/6W
R108	1	1	1	1	1	1	1	1	1	1	1	RN14BK2C1001F	RES. METAL FILM	1k	1%	1/6W
R109	1	1	1	1	1	1	1	1	1	1	1	RN14BK2C6201F	RES. METAL FILM	6.2k	1%	1/6W
R110	1	1	1	1	1	1	1	1	1	1	1	RN14BK2C6201F	RES. METAL FILM	6.2k	1%	1/6W
R111	1	1	1	1	1	1	1	1	1	1	1	RN14BK2C6201F	RES. METAL FILM	6.2k	1%	1/6W
R112	1	1	1	1	1	1	1	1	1	1	1	RN14BK2C5601F	RES. METAL FILM	5.6k	1%	1/6W
R113	1	1	1	1	1	1	1	1	1	1	1	RD14BB2C471J	RES. CARBON	470	5%	1/6W
R115	1	1	1	1	1	1	1	1	1	1	1	RN14BK2C2201F	RES. METAL FILM	2.2k	1%	1/6W
R201										1	1	RD14DB3A182J	RES. CARBON	1.8k	5%	1W
R202										1	1	RD14DB3A182J	RES. CARBON	1.8k	5%	1W
R203	1	1				1	1	1				RD14BB2C100J	RES. CARBON	10	5%	1/6W
R204	1	1				1	1	1				RD14BB2C100J	RES. CARBON	10	5%	1/6W
R317	1	1	1	1	1	1	1	1	1	1	1	RD14BB2C203J	RES. CARBON	20k	5%	1/6W
R318	1	1	1	1	1	1	1	1	1	1	1	RD14BB2C203J	RES. CARBON	20k	5%	1/6W
R319	1	1				1	1	1		1	1	RD14BB2C203J	RES. CARBON	20k	5%	1/6W
R320	1	1					1	1		1	1	RD14BB2C203J	RES. CARBON	20k	5%	1/6W
S501	1	1	1	1	1	1	1	1	1	1	1	S66-0607-05	POWER SWITCH			
S601	1	1	1	1	1	1	1	1	1	1	1	S62-0646-05	SLIDE SWITCH			
S602	1	1	1	1	1	1	1	1	1	1	1	S62-0646-05	SLIDE SWITCH			
TH101	1	1	1	1	1	1	1	1	1	1	1	102AT-2	THERMISTOR			

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Ref. No	Parts No.	Name & Description			
POWER SUPPLY UNIT (X68-2300-00)					
	J30-0671-04	SPACER			
	J73-0835-02	PCB(UNMOUNTED)			
C101	CQ93FMG1H103J	CAP. PLASTIC FILM	0.01µ	5%	50V
C102	C90-4747-05	CAP. ELECTRO	3300µ	20%	25V
C103	CQ93FMG1H103J	CAP. PLASTIC FILM	0.01µ	5%	50V
C104	C90-4749-05	CAP. ELECTRO	2200µ	20%	35V
C105	C90-4749-05	CAP. ELECTRO	2200µ	20%	35V
C109	C90-4749-05	CAP. ELECTRO	2200µ	20%	35V
C110	C90-4824-05	CAP. ELECTRO	100µ	20%	6.3V
C111	C90-4824-05	CAP. ELECTRO	100µ	20%	6.3V
C112	C90-4824-05	CAP. ELECTRO	100µ	20%	6.3V
C115	C91-1128-05	CAP.CERAMIC	0.1µ	-25	50V
C116	C91-1128-05	CAP.CERAMIC	0.1µ	-25	50V
C118	C90-4825-05	CAP. ELECTRO	47µ	20%	16V
C119	C90-4825-05	CAP. ELECTRO	47µ	20%	16V
C120	C90-4825-05	CAP. ELECTRO	47µ	20%	16V
C123	C90-4825-05	CAP. ELECTRO	47µ	20%	16V
C201	CE04BW1A102M	CAP. ELECTRO	1000µ	20%	10V
C203	CE04BW1E471M	CAP. ELECTRO	470µ	20%	25V
C204	CE04BW1E471M	CAP. ELECTRO	470µ	20%	25V
C205	C91-2698-05	CAP. FILM	0.01µ	10%	630V
C301	C90-4839-05	CAP. ELECTRO	22000µ	20%	25V
C302	C90-4846-05	CAP. ELECTRO	8200µ	20%	50V
C303	C90-4841-05	CAP. ELECTRO	6800µ	20%	50V
C304	C90-4841-05	CAP. ELECTRO	6800µ	20%	50V
C401	CF92JV1H104J	CAP. METAL FILM	0.1µ	5%	50V
C402	CF92JV1H104J	CAP. METAL FILM	0.1µ	5%	50V
C403	CF92JV1H104J	CAP. METAL FILM	0.1µ	5%	50V
C404	CF92JV1H104J	CAP. METAL FILM	0.1µ	5%	50V
CN103	E40-7808-05	BORDE CONNECTOR	17P		
CN104	E40-3299-05	PIN CONNECTOR	2P		
CN105	E40-3302-05	PIN CONNECTOR	5P		
CN201	E40-3369-05	PIN CONNECTOR	10P		
CN202	E40-3367-05	PIN CONNECTOR	8P		
CN203	E40-3299-05	PIN CONNECTOR	2P		
CN301	E40-7292-05	PIN CONNECTOR	8P		
CN302	E40-7392-05	PIN CONNECTOR	6P		
CN303	E40-7292-05	PIN CONNECTOR	8P		
CN304	E40-7292-05	PIN CONNECTOR	8P		
CN401	E40-3367-05	PIN CONNECTOR	8P		
CN402	E40-3365-05	PIN CONNECTOR	6P		
CN403	E40-7669-05	PIN CONNECTOR	4P		
CN501	E40-7627-05	PIN CONNECTOR	5P		
CN502	E40-7627-05	PIN CONNECTOR	5P		
D101	S1VB20	DIODE			
D102	S1VB20	DIODE			
D104	DSM1D2	DIODE			
D105	DSM1D2	DIODE			
D106	MTZ16JB	DIODE, ZENER			
D107	1SS133	DIODE			
D108	MTZ11JC	DIODE, ZENER			
D401	S5VB20	DIODE			
D402	S4VB20	DIODE			

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Ref. No	Parts No.	Name & Description			
D403	S4VB20	DIODE			
D404	S4VB20	DIODE			
IC101	TA7805S	IC			
IC102	TA7805S	IC			
IC103	TA79005S	IC			
IC106	NJM4558D	IC			
IC107	TA79L012P	IC			
P301	E23-1516-05	TERMINAL SCREW			
P302	E23-1516-05	TERMINAL SCREW			
P401	E23-0401-05	TERMINAL			
P402	E23-0401-05	TERMINAL			
P403	E23-0401-05	TERMINAL			
P404	E23-0401-05	TERMINAL			
Q101	2SC4793	TR.SI, NPN			
R106	RD14BB2C471J	RES.CARBON	470	5%	1/6W
R107	RN14BK2C5600F	RES. METAL FILM	560	1%	1/6W
R108	RN14BK2C1001F	RES. METAL FILM	1k	1%	1/6W
R109	RN14BK2C6201F	RES. METAL FILM	6.2k	1%	1/6W
R110	RN14BK2C6201F	RES. METAL FILM	6.2k	1%	1/6W
R111	RN14BK2C6201F	RES. METAL FILM	6.2k	1%	1/6W
R112	RN14BK2C5601F	RES. METAL FILM	5.6k	1%	1/6W
R113	RD14BB2C471J	RES.CARBON	470	5%	1/6W
R115	RN14BK2C2201F	RES. METAL FILM	2.2k	1%	1/6W
R203	RD14BB2C100J	RES.CARBON	10	5%	1/6W
R204	RD14BB2C100J	RES.CARBON	10	5%	1/6W
R301	RD14BB2C203J	RES.CARBON	20k	5%	1/6W
R302	RD14BB2C203J	RES.CARBON	20k	5%	1/6W
R303	RD14BB2C203J	RES.CARBON	20k	5%	1/6W
R304	RD14BB2C203J	RES.CARBON	20k	5%	1/6W
S501	S66-0607-05	POWER SWITCH			
S601	S62-0646-05	SLIDE SWITCH			
S602	S62-0646-05	SLIDE SWITCH			
TH101	102AT-2	THERMISTOR			

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❶

Ref. No	-00	-01	-02	Parts No.	Name & Description			
INTERFACE UNIT (X72-1540-XX)								
	1	1	1	E02-0217-05	SOCKET			
	1			AT29C010A-KX3	PROGRAMED ROM			
		1		AT29C010A-LS3	PROGRAMED ROM			
			1	AT29C010A-MS0	PROGRAMED ROM			
	0.5	0.5	0.5	J73-0751-12	PCB(UNMOUNTED)			
	2			N67-3010-41	SCREW, SEMS PAN HD (M3✻10)			
C1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C2	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C3	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C4	1	1	1	C92-1547-05	CAP.ELECTRO	100µ	20%	10V
C5	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C6	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C7	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C8	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C9	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C11	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C12	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C13	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C14		1		CC73GSL1H102J	CAP.CERAMIC	1000p	5%	50V
C15	1			CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C16	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C17		1		C92-0523-05	CAP.ELECTRO	10µ	20%	16V
C18		1		C92-0523-05	CAP.ELECTRO	10µ	20%	16V
C19		1		C92-0523-05	CAP.ELECTRO	10µ	20%	16V
C20		1		C92-0523-05	CAP.ELECTRO	10µ	20%	16V
C21		1		C92-0523-05	CAP.ELECTRO	10µ	20%	16V
C22	1			CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C23	1			CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C24	1		1	C92-1547-05	CAP.ELECTRO	100µ	20%	10V
C25	1		1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C26	1		1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C27	1		1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C29	1		1	C92-1547-05	CAP.ELECTRO	100µ	20%	10V
C32	1		1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C33	1		1	C92-1547-05	CAP.ELECTRO	100µ	20%	10V
C34	1		1	C92-1547-05	CAP.ELECTRO	100µ	20%	10V
C35		1		CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C36	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C37	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
CN1	1		1	E40-7854-05	PIN CONNECTOR	19P		
CN2	1		1	E40-7854-05	PIN CONNECTOR	19P		
CN3	1		1	E40-7853-05	PIN CONNECTOR	5P		
CN4		1		E40-7854-05	PIN CONNECTOR	19P		
CN5		1		E40-7854-05	PIN CONNECTOR	19P		
CN6		1		E40-7853-05	PIN CONNECTOR	5P		
CN8	1	1	1	E40-3299-05	PIN CONNECTOR	2P		
D1		1		1SS355	DIODE			
IC1	1	1	1	HD6413007F20	IC			
IC2	1	1	1	AT29C010A-12JI	IC			
IC3	1	1	1	GM76C256CLLFW7	IC			
IC4	1		1	ML60851D	IC			

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IC5	1	1	1	TC74HC541AF	IC			
IC6	1	1	1	TC74HC541AF	IC			
IC7	1	1	1	TC74HC541AF	IC			
IC8	1	1	1	TC74HC245AF	IC			
IC10	1			NAT9914BPL	IC			
IC11	1			SN75160BDW	IC			
IC12	1			SN75161BDW	IC			
IC13	1		1	SN751178(NS)	IC			
IC14	1		1	BA033FP	IC			
IC15	1	1	1	TC74HC04AF	IC			
IC16	1	1	1	TC74HC08AF	IC			
IC17	1	1	1	TC74HC32AF	IC			
IC18		1		MAX232ECSE	IC			
J1	1			E58-0613-05	SQUARE SOCKET; GP-IB			
J2		1		E59-0607-05	D-SUB PLUG			
J3		1		E58-0606-05	MODULAR JACK			
J4	1		1	E70-0660-05	TERMINAL BLOCK			
J5	1		1	E58-0638-05	SQUARE SOCKET; USB-B			
L1	1		1	L92-0226-05	FERRITE CHIP			
L2	1		1	L92-0226-05	FERRITE CHIP			
PH1	1		1	PC357NT	IC, PHOTO COUPLER			
Q1		1		RN1404	TR.SI, NPN			
Q2		1		RN1401	TR.SI, NPN			
Q3		1		RN1401	TR.SI, NPN			
R1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R2	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R3	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R4	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R5	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R7	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R8		1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R9	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R10	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R11	1			RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R12	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R13	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R14	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R15	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R20	1		1	RK73FB2A513J	RES. CHIP (2✻1.25)	51k	5%	1/10W
R21	1		1	RK73FB2A513J	RES. CHIP (2✻1.25)	51k	5%	1/10W
R22	1		1	RK73FB2A513J	RES. CHIP (2✻1.25)	51k	5%	1/10W
R23	1		1	RK73FB2A513J	RES. CHIP (2✻1.25)	51k	5%	1/10W
R24	1		1	RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R25	1		1	RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R26	1		1	RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R27	1		1	RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R28	1		1	RK73FB2A152J	RES. CHIP (2✻1.25)	1.5k	5%	1/10W
R29	1		1	RK73FB2A561J	RES. CHIP (2✻1.25)	560	5%	1/10W
R30	1		1	RK73FB2A220J	RES. CHIP (2✻1.25)	22	5%	1/10W
R31	1		1	RK73FB2A220J	RES. CHIP (2✻1.25)	22	5%	1/10W
R32	1		1	RK73FB2A105J	RES. CHIP (2✻1.25)	1M	5%	1/10W
R33	1		1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R34	1		1	RK73FB2A105J	RES. CHIP (2✻1.25)	1M	5%	1/10W
R35	1		1	RS14DB2H151J	RES.METAL OXIDE FILM	150	5%	1/2W

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❸

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R36	1		1	RS14DB2H151J	RES.METAL OXIDE FILM	150	5%	1/2W
R37		1		R92-0670-05	RES. JUMPER	0		
R38	1		1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R39	1		1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R40	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R41	1		1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R42	1		1	RK73FB2A105J	RES. CHIP (2✻1.25)	1M	5%	1/10W
R51	1			R92-0670-05	RES. JUMPER	0		
R52		1		R92-0670-05	RES. JUMPER	0		
R53			1	R92-0670-05	RES. JUMPER	0		
S1	1		1	S79-0633-05	DIP SWITCH			
X1	1		1	L78-0147-05	RESONATOR			

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❶

Ref. No	Parts No.	-00	-01	-02	-03	-04	-05	-06	-07	Name & Description			
INPUT UNIT (X72-1620-XX)													
	J73-0839-03	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	PCB(UNMOUNTED)			
CN1	E40-3306-05	1	1	1	1	1	1	1	1	PIN CONNECTOR	9P		
D1	1SS133	1	1	1	1	1	1	1	1	DIODE			
D2	1SS133	1	1	1	1	1	1	1	1	DIODE			
D3	MTZ3.6JB	1	1	1	1	1	1	1	1	DIODE, ZENER			
D4	1SS133			1	1			1	1	DIODE			
D5	1SS133			1	1			1	1	DIODE			
D6	1SS133	1	1			1	1			DIODE			
D7	1SS133	1	1			1	1			DIODE			
D8	MTZ3.6JB	1	1			1	1			DIODE, ZENER			
D9	MTZ3.6JB			1	1			1	1	DIODE, ZENER			
D10	1SS133	1								DIODE			
D11	1SS133	1								DIODE			
D12	1SS133		1	1	1					DIODE			
D13	1SS133		1	1	1					DIODE			
D14	MTZ3.6JB	1								DIODE, ZENER			
D15	MTZ3.6JB		1	1	1					DIODE, ZENER			
D16	1SS133	1								DIODE			
D17	1SS133	1								DIODE			
D18	MTZ3.6JB	1								DIODE, ZENER			
D19	1SS133	1	1	1	1	1	1	1	1	DIODE			
D20	1SS133	1	1			1	1			DIODE			
D21	1SS133			1	1			1	1	DIODE			
D22	1SS133	1								DIODE			
D23	1SS133		1	1	1					DIODE			
D24	1SS133	1								DIODE			
Q1	2SC5198(R)	1	1	1	1	1	1	1	1	TR.SI, NPN			
Q2	2SA1941(R)	1	1			1	1			TR.SI, PNP			
Q2	2SC5198(R)			1	1			1	1	TR.SI, NPN			
Q3	2SA1941(R)		1	1	1					TR.SI, PNP			
Q3	2SC5198(R)	1								TR.SI, NPN			
Q4	2SA1941(R)	1	1	1	1					TR.SI, PNP			
R1	RD14DB3A3R9J	1		1		1		1		RES. CARBON	3.9	5%	1W
R1	RD14DB3A5R6J		1							RES. CARBON	5.6	5%	1W
R1	RD14DB3A6R8J			1		1			1	RES. CARBON	6.8	5%	1W
R2	RD14BB2C821J	1	1	1	1	1	1	1	1	RES. CARBON	820	5%	1/6W
R3	RD14DB3A3R9J	1		1	1	1		1		RES. CARBON	3.9	5%	1W
R3	RD14DB3A5R6J		1							RES. CARBON	5.6	5%	1W
R3	RD14DB3A6R8J						1		1	RES. CARBON	6.8	5%	1W
R4	RD14BB2C821J	1	1	1	1	1	1	1	1	RES. CARBON	820	5%	1/6W
R5	RD14DB3A3R9J	1	1	1	1					RES. CARBON	3.9	5%	1W
R6	RD14BB2C821J	1	1	1	1					RES. CARBON	820	5%	1/6W
R7	RD14DB3A3R9J	1								RES. CARBON	3.9	5%	1W
R8	RD14BB2C821J	1								RES. CARBON	820	5%	1/6W
R9	R92-1061-05	1								RES. JUMPER	0		
R10	R92-1061-05		1	1	1					RES. JUMPER	0		
R20	R92-1061-05	1								RES. JUMPER	0		
R21	R92-1061-05		1							RES. JUMPER			
R22	R92-1061-05			1						RES. JUMPER			
R23	R92-1061-05				1					RES. JUMPER			
R24	R92-1061-05					1				RES. JUMPER			

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R25	R92-1061-05						1			RES. JUMPER
R26	R92-1061-05							1		RES. JUMPER
R27	R92-1061-05								1	RES. JUMPER

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AMP UNIT (X73-2320-XX)															
	1	1	1	1	1	1	1	1	1	1	J73-0752-12	PCB(UNMOUNTED)			
C1	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C2	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C3	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C4	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C5	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C6	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C7	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C8	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C9	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C10	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C11	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C12	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C13	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C14	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C15	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C16	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C17	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C18	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C19	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C20	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C21	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C22	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C23	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C24	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C25	1	1	1	1	1	1	1	1	1	1	CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C26	1	1	1	1	1	1	1	1	1	1	CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C27	1	1	1	1	1	1	1	1	1	1	CC73GCH1H471J	CAP. CERAMIC	470p	5%	50V
C28	1	1	1	1	1	1	1	1	1	1	CK73GB1H104K	CAP. CERAMIC	0.1µ	10%	50V
C29						1					CK73GB1H103K	CAP. CERAMIC	0.01µ	10%	50V
C29			1		1		1	1		1	CK73GB1H223K	CAP. CERAMIC	0.022µ	10%	50V
C29		1		1					1		CK73GB1H473K	CAP. CERAMIC	0.047µ	10%	50V
C29	1										CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C30	1	1	1	1	1	1	1	1	1	1	CK73GB1H103K	CAP. CERAMIC	0.01µ	10%	50V
C31	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C32	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C33	1	1	1	1	1	1	1	1	1	1	CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C34	1	1	1	1	1	1	1	1	1	1	CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C35	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C36	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C37	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C38					1	1	1	1		1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C39	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C40					1	1	1	1		1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C41	1	1	1	1	1	1	1	1	1	1	CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C42	1	1	1	1	1	1	1	1	1	1	CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C43	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C44	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C45	1	1	1	1	1	1	1	1	1	1	CC73GCH1H471J	CAP. CERAMIC	470p	5%	50V
C46	1	1	1	1	1	1	1	1	1	1	CK73GB1H104K	CAP. CERAMIC	0.1µ	10%	50V
C47			1		1			1		1	CK73GB1H223K	CAP. CERAMIC	0.022µ	10%	50V
C47		1		1			1		1		CK73GB1H473K	CAP. CERAMIC	0.047µ	10%	50V
C47	1					1					CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V

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C48	1	1	1	1	1	1	1	1	1	1	CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C49	1	1	1	1	1	1	1	1	1	1	CK73GB1H103K	CAP. CERAMIC	0.01µ	10%	50V
C50	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C51	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C52	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C53	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C54	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C55	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C56	1	1	1	1	1	1	1	1	1	1	CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C57	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C58	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C59	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C60	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C61	1	1	1	1	1	1	1	1	1	1	CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C62	1	1	1	1	1	1	1	1	1	1	CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C63	1	1	1	1	1	1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C69	1	1	1	1	1	1	1	1	1	1	CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C70	1										CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C71	1										CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C72	1										CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C73	1										CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C74	1										CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C75	1										CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C76	1										CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C77	1										CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C78	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C79	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C80	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C81	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C82	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C83	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C84	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C85	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C86	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C87	1										CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C88	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C89	1										CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C90	1	1				1		1	1		CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C91	1	1				1		1	1		CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C92	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C93	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C94	1	1				1		1	1		CC73GCH1H471J	CAP. CERAMIC	470p	5%	50V
C95	1	1				1		1	1		CK73GB1H104K	CAP. CERAMIC	0.1µ	10%	50V
C96	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C97	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C98									1		CK73GB1H223K	CAP. CERAMIC	0.022µ	10%	50V
C98								1			CK73GB1H473K	CAP. CERAMIC	0.047µ	10%	50V
C98	1	1				1					CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C99	1	1				1		1	1		CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V
C100	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C101	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C102	1	1				1		1	1		CK73GB1H103K	CAP. CERAMIC	0.01µ	10%	50V
C103	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C104	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC	0.1µ	-20/80%	25V
C105	1	1				1		1	1		CK73GF1A105Z	CAP. CERAMIC	1µ	-20/80%	10V

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Ref. No	–00	–01	–02	–03	–04	–05	–06	–07	–08	–09	Parts No.	Name & Description
C106	1										CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C108	1										CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C110	1										CK73GF1A105Z	CAP. CERAMIC 1µ -20/80% 10V
C111	1										CK73GF1A105Z	CAP. CERAMIC 1µ -20/80% 10V
C112	1										CC73GCH1H471J	CAP. CERAMIC 470p 5% 50V
C113	1										CK73GB1H104K	CAP. CERAMIC 0.1µ 10% 50V
C114	1										CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C115	1										CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C116	1										CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C117	1										CK73GF1A105Z	CAP. CERAMIC 1µ -20/80% 10V
C118	1										CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C119	1										CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C120	1										CK73GB1H103K	CAP. CERAMIC 0.01µ 10% 50V
C121	1										CK73GF1A105Z	CAP. CERAMIC 1µ -20/80% 10V
C122	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C123	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C124	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C125	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C126	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C127	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C128	1	1				1		1	1		CK73GF1A105Z	CAP. CERAMIC 1µ -20/80% 10V
C129	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C130	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C131	1	1				1		1	1		CK73GF1A105Z	CAP. CERAMIC 1µ -20/80% 10V
C132	1	1				1		1	1		CK73GF1A105Z	CAP. CERAMIC 1µ -20/80% 10V
C133	1	1				1		1	1		CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C134	1	1	1	1	1	1	1	1	1	1	C92-1527-05	CAP.ELECTRO 100µ 20% 16V
C135	1	1	1	1	1	1	1	1	1	1	C92-1527-05	CAP.ELECTRO 100µ 20% 16V
C136	1	1				1		1	1		C92-1527-05	CAP.ELECTRO 100µ 20% 16V
C137	1	1				1		1	1		C92-1527-05	CAP.ELECTRO 100µ 20% 16V
C138	1			1			1	1	1	1	CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C139	1			1			1	1	1	1	CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C140	1			1			1	1	1	1	CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C141	1			1		1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C142	1			1		1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C143	1			1		1	1	1	1	1	CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C144	1			1			1	1	1	1	CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C145	1						1	1	1		CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C147	1			1			1	1	1	1	CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
C148							1	1	1		CK73GF1E104Z	CAP. CERAMIC 0.1µ -20/80% 25V
CN1	1	1	1	1	1	1	1	1	1	1	E40-5233-05	PIN CONNECTOR 25P
CN2	1	1	1	1	1	1	1	1	1	1	E40-5233-05	PIN CONNECTOR 25P
CN3	1	1	1	1	1	1	1	1	1	1	E40-7809-05	BORDE CONNECTOR 17P
CN4		1				1		1	1		E40-7806-05	BORDE CONNECTOR 9P
CN5	1	1	1	1	1	1	1	1	1	1	E40-3367-05	PIN CONNECTOR 8P
CN6	1	1				1	1	1	1		E40-3367-05	PIN CONNECTOR 8P
CN7	1	1	1	1	1	1	1	1	1	1	E40-4291-05	PIN CONNECTOR 10P
CN8	1	1				1	1	1	1		E40-7292-05	PIN CONNECTOR 8P
CN9	1	1	1	1	1	1	1	1	1	1	E40-3240-05	PIN CONNECTOR 5P
CN10	1	1	1	1	1	1	1	1	1	1	E40-3239-05	PIN CONNECTOR 4P
CN11	1	1	1	1	1	1	1	1	1	1	E40-3237-05	PIN CONNECTOR 2P
D1	1	1	1	1	1	1	1	1	1	1	UDZS4.7B	DIODE, ZENER
D2	1	1	1	1	1	1	1	1	1	1	1SS226	DIODE
D3	1	1	1	1	1	1	1	1	1	1	1SS355	DIODE
D4	1	1	1	1	1	1	1	1	1	1	1SS355	DIODE

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❹

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D5	1	1	1	1	1	1	1	1	1	1	1SZ52	DIODE, ZENER
D6	1	1	1	1	1	1	1	1	1	1	DAP202K	DIODE
D7	1	1	1	1	1	1	1	1	1	1	DAP202K	DIODE
D8	1	1	1	1	1	1	1	1	1	1	DAP202K	DIODE
D9	1	1	1	1	1	1	1	1	1	1	DAP202K	DIODE
D10					1	1	1	1		1	1SS300	DIODE
D10	1	1	1	1					1		1SS301	DIODE
D11	1	1	1	1	1	1	1	1	1	1	1SS300	DIODE
D12					1	1	1	1		1	UDZS5.6B	DIODE, ZENER
D12	1	1	1	1					1		1SS355	DIODE
D13	1	1	1	1	1	1	1	1	1	1	UDZS5.6B	DIODE, ZENER
D14	1	1	1	1					1		UDZS5.6B	DIODE, ZENER
D14					1	1	1	1		1	1SS355	DIODE
D15	1	1	1	1	1	1	1	1	1	1	1SS355	DIODE
D16	1	1	1	1	1	1	1	1	1	1	1SS301	DIODE
D17	1	1	1	1					1		1SS300	DIODE
D17					1	1	1	1		1	1SS301	DIODE
D19	1	1	1	1	1	1	1	1	1	1	1SS355	DIODE
D20	1	1	1	1					1		1SS355	DIODE
D21					1	1	1	1		1	1SS355	DIODE
D22	1	1				1		1	1		UDZS4.7B	DIODE, ZENER
D23	1	1				1		1	1		1SS226	DIODE
D24	1	1				1		1	1		1SS355	DIODE
D25	1	1				1		1	1		1SS355	DIODE
D26		1				1		1	1		1SZ52	DIODE, ZENER
D27	1	1				1		1	1		DAP202K	DIODE
D28	1	1				1		1	1		DAP202K	DIODE
D29	1	1				1		1	1		DAP202K	DIODE
D30	1	1				1		1	1		DAP202K	DIODE
D31	1										1SS301	DIODE
D32	1										1SS300	DIODE
D32		1				1		1	1		1SS301	DIODE
D33	1										1SS355	DIODE
D34	1										UDZS5.6B	DIODE, ZENER
D34		1				1		1	1		1SS355	DIODE
D35	1										UDZS5.6B	DIODE, ZENER
D36		1				1		1	1		UDZS5.6B	DIODE, ZENER
D36	1										1SS355	DIODE
D37		1				1		1	1		1SS300	DIODE
D37	1										1SS301	DIODE
D38	1										1SS300	DIODE
D39	1										1SS355	DIODE
D41		1				1		1	1		1SS355	DIODE
D42	1										1SS355	DIODE
D43	1	1	1	1	1	1	1	1	1	1	1SS355	DIODE
D44					1	1	1	1		1	1SS355	DIODE
D45	1	1	1	1					1		1SS355	DIODE
D46	1										1SS355	DIODE
D47		1				1		1	1		1SS355	DIODE
D48	1										MA704	DIODE
IC1	1	1	1	1	1	1	1	1	1	1	PCM1700U	IC
IC2	1	1	1	1	1	1	1	1	1	1	PCM1700U	IC
IC3	1	1	1	1	1	1	1	1	1	1	NJM4558M	IC
IC4	1	1	1	1	1	1	1	1	1	1	NJM4558M	IC
IC5	1	1	1	1	1	1	1	1	1	1	NJM4558M	IC

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IC6					1	1	1	1		1	NJM4558M	IC
IC7	1	1	1	1	1	1	1	1	1	1	NJM4558M	IC
IC8	1	1	1	1	1	1	1	1	1	1	NJM4558M	IC
IC9	1	1	1	1	1	1	1	1	1	1	NJM4558M	IC
IC10	1	1	1	1	1	1	1	1	1	1	NJM4558M	IC
IC11	1	1	1	1	1	1	1	1	1	1	NJM4558M	IC
IC12	1	1	1	1	1	1	1	1	1	1	NJM4558M	IC
IC13	1	1	1	1	1	1	1	1	1	1	TC4051BF	IC
IC14	1	1	1	1	1	1	1	1	1	1	NJM4558M	IC
IC15	1	1	1	1	1	1	1	1	1	1	TC4051BF	IC
IC16	1	1	1	1	1	1	1	1	1	1	NJM4558M	IC
IC17	1	1	1	1	1	1	1	1	1	1	LTC2420CS8	IC
IC18	1	1	1	1	1	1	1	1	1	1	TC74HC4094AF	IC
IC19	1										PCM1700U	IC
IC20	1	1				1		1	1		PCM1700U	IC
IC21	1	1				1		1	1		NJM4558M	IC
IC22	1										NJM4558M	IC
IC23	1										NJM4558M	IC
IC25	1	1				1		1	1		NJM4558M	IC
IC26	1	1				1		1	1		NJM4558M	IC
IC27	1										NJM4558M	IC
IC28	1	1				1		1	1		NJM4558M	IC
IC29	1	1				1		1	1		NJM4558M	IC
IC30	1										NJM4558M	IC
IC31	1	1				1		1	1		TC4051BF	IC
IC32	1	1				1		1	1		NJM4558M	IC
IC33	1	1				1		1	1		TC4051BF	IC
IC34	1	1				1		1	1		NJM4558M	IC
IC35	1	1				1		1	1		LTC2420CS8	IC
IC36	1	1				1		1	1		TC74HC4094AF	IC
IC37	1	1	1	1	1	1	1	1	1	1	TA7812S	IC
IC39	1	1	1	1	1	1	1	1	1	1	TA79012S	IC
IC40	1	1				1		1	1		TA7812S	IC
IC41	1	1				1		1	1		TA79012S	IC
Q1	1	1	1	1	1	1	1	1	1	1	2SA1943(R)	TR.SI, PNP
Q2	1	1	1	1	1	1	1	1	1	1	2SA1943(R)	TR.SI, PNP
Q3	1		1	1	1	1	1	1	1	1	2SA1943(R)	TR.SI, PNP
Q4	1	1	1	1	1	1	1	1	1	1	2SA1202(Y)	TR.SI, PNP
Q5	1	1	1	1	1	1	1	1	1	1	2SA1202(Y)	TR.SI, PNP
Q6	1		1	1	1	1	1	1	1	1	2SA1202(Y)	TR.SI, PNP
Q7					1	1	1	1		1	2SA1943(R)	TR.SI, PNP
Q7	1	1	1	1					1		2SC5200(R)	TR.SI, NPN
Q8					1	1	1	1		1	2SA1943(R)	TR.SI, PNP
Q8	1	1	1	1					1		2SC5200(R)	TR.SI, NPN
Q9					1	1	1	1		1	2SA1943(R)	TR.SI, PNP
Q9	1		1	1					1		2SC5200(R)	TR.SI, NPN
Q10					1	1	1	1		1	2SA1202(Y)	TR.SI, PNP
Q10	1	1	1	1					1		2SC2882(Y)	TR.SI, NPN
Q11					1	1	1	1		1	2SA1202(Y)	TR.SI, PNP
Q11	1	1	1	1					1		2SC2882(Y)	TR.SI, NPN
Q12					1	1	1	1		1	2SA1202(Y)	TR.SI, PNP
Q12	1		1	1					1		2SC2882(Y)	TR.SI, NPN
Q13	1										2SA1941(O)	TR.SI, PNP
Q13			1	1	1		1			1	2SA1943(R)	TR.SI, PNP
Q13		1						1			2SC5198(O)	TR.SI, NPN

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Q13						1			1		2SC5200(R)	TR.SI, NPN
Q14	1										2SA1941(O)	TR.SI, PNP
Q14			1		1		1				2SA1943(R)	TR.SI, PNP
Q14		1						1			2SC5198(O)	TR.SI, NPN
Q14						1			1		2SC5200(R)	TR.SI, NPN
Q15	1		1	1	1		1			1	2SA1202(Y)	TR.SI, PNP
Q15		1				1		1	1		2SC2882(Y)	TR.SI, NPN
Q16	1		1		1		1				2SA1202(Y)	TR.SI, PNP
Q16		1				1		1	1		2SC2882(Y)	TR.SI, NPN
Q17					1		1			1	2SA1943(R)	TR.SI, PNP
Q17	1	1						1			2SC5198(O)	TR.SI, NPN
Q17			1	1					1		2SC5200(R)	TR.SI, NPN
Q18					1		1				2SA1943(R)	TR.SI, PNP
Q18		1						1			2SC5198(O)	TR.SI, NPN
Q18			1						1		2SC5200(R)	TR.SI, NPN
Q19					1		1			1	2SA1202(Y)	TR.SI, PNP
Q19	1	1	1	1				1	1		2SC2882(Y)	TR.SI, NPN
Q20					1		1				2SA1202(Y)	TR.SI, PNP
Q20		1	1					1	1		2SC2882(Y)	TR.SI, NPN
Q22	1	1	1	1	1	1	1	1	1	1	RN1401	TR.SI, NPN
Q23	1	1	1	1					1		RN2401	TR.SI, PNP
Q24					1	1	1	1		1	RN1401	TR.SI, NPN
Q25	1	1	1	1	1	1	1	1	1	1	RN1401	TR.SI, NPN
Q26	1	1	1	1	1	1	1	1	1	1	RN1401	TR.SI, NPN
Q27	1	1	1	1	1	1	1	1	1	1	RN1401	TR.SI, NPN
Q28	1	1	1	1	1	1	1	1	1	1	RN1401	TR.SI, NPN
Q29	1	1	1	1	1	1	1	1	1	1	RN1401	TR.SI, NPN
Q30	1	1	1	1	1	1	1	1	1	1	RN1401	TR.SI, NPN
Q31		1				1		1			RN2401	TR.SI, PNP
Q32	1										RN1401	TR.SI, NPN
Q33	1										RN2401	TR.SI, PNP
Q35	1										RN1401	TR.SI, NPN
Q36	1	1				1		1	1		RN1401	TR.SI, NPN
Q37	1	1				1		1	1		RN1401	TR.SI, NPN
Q38	1	1				1		1	1		RN1401	TR.SI, NPN
Q39	1	1				1		1	1		RN1401	TR.SI, NPN
Q40	1	1				1		1	1		RN1401	TR.SI, NPN
R1	1	1	1	1	1	1	1	1	1	1	RN73FH2A302D	RES. METAL FILM 3k 0.5P 1/10W
R2	1	1	1	1	1	1	1	1	1	1	RK73FB2A242J	RES. CHIP (2✻1.25) 2.4k 5% 1/10W
R3	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM 10k 0.5P 1/10W
R4	1	1	1	1	1	1	1	1	1	1	RK73FB2A511J	RES. CHIP (2✻1.25) 510 5% 1/10W
R5	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM 10k 0.5P 1/10W
R6	1	1	1	1	1	1	1	1	1	1	RK73FB2A512J	RES. CHIP (2✻1.25) 5.1k 5% 1/10W
R7	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM 10k 0.5P 1/10W
R8	1	1	1	1	1	1	1	1	1	1	RN73FH2A302D	RES. METAL FILM 3k 0.5P 1/10W
R9	1	1	1	1	1	1	1	1	1	1	RK73FB2A242J	RES. CHIP (2✻1.25) 2.4k 5% 1/10W
R10	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM 10k 0.5P 1/10W
R11	1	1	1	1	1	1	1	1	1	1	RK73FB2A511J	RES. CHIP (2✻1.25) 510 5% 1/10W
R12	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM 10k 0.5P 1/10W
R13	1	1	1	1	1	1	1	1	1	1	RK73FB2A512J	RES. CHIP (2✻1.25) 5.1k 5% 1/10W
R14	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM 10k 0.5P 1/10W
R15	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R16	1	1	1	1	1	1	1	1	1	1	RN73FH2A153D	RES. METAL FILM 15k 0.5P 1/10W
R17	1										RK73FB2A122J	RES. CHIP (2✻1.25) 1.2k 5% 1/10W
R17					1						RK73FB2A271J	RES. CHIP (2✻1.25) 270 5% 1/10W

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PARTS LIST

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❼

Ref. No	–00	–01	–02	–03	–04	–05	–06	–07	–08	–09	Parts No.	Name & Description			
R17		1				1	1	1	1	1	RK73FB2A471J	RES. CHIP (2✻1.25)	470	5%	1/10W
R17			1		1						RK73FB2A751J	RES. CHIP (2✻1.25)	750	5%	1/10W
R18	1	1	1	1	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R19		1									RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R19									1		RK73FB2A153J	RES. CHIP (2✻1.25)	15k	5%	1/10W
R19	1					1					RK73FB2A222J	RES. CHIP (2✻1.25)	2.2k	5%	1/10W
R19				1							RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R19			1		1		1	1		1	RK73FB2A562J	RES. CHIP (2✻1.25)	5.6k	5%	1/10W
R20								1			RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R20	1	1	1		1		1				RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R20									1		RN73FH2A203D	RES. METAL FILM	20k	0.5P	1/10W
R20				1		1				1	RN73FH2A243D	RES. METAL FILM	24k	0.5P	1/10W
R21							1				R92-0670-05	RES. JUMPER	0		
R21	1	1	1		1				1		RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R21									1		RN73FH2A203D	RES. METAL FILM	20k	0.5P	1/10W
R21				1		1				1	RN73FH2A243D	RES. METAL FILM	24k	0.5P	1/10W
R21								1			RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R22							1				R92-0670-05	RES. JUMPER	0		
R22	1	1	1		1				1		RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R22				1		1				1	RN73FH2A243D	RES. METAL FILM	24k	0.5P	1/10W
R22								1			RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R23	1										RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R23		1	1	1	1	1	1	1	1	1	RK73FB2A751J	RES. CHIP (2✻1.25)	750	5%	1/10W
R24	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R25	1	1	1	1	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R26	1	1	1	1	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R27	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R28	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R31	1	1	1	1	1	1	1	1	1	1	RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R32	1	1	1	1	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R33	1	1	1	1	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R34	1		1	1	1	1	1	1	1	1	RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R35				1						1	RD14DB3D1R2J	RES. CARBON	1.2	5%	2W
R35						1			1		RD14DB3D1R5J	RES. CARBON	1.5	5%	2W
R35							1	1			RD14DB3DR51J	RES. CARBON	0.51	5%	2W
R35	1		1		1						RD14DB3DR68J	RES. CARBON	0.68	5%	2W
R36	1	1	1	1	1	1	1	1	1	1	RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R37				1						1	RD14DB3D1R2J	RES. CARBON	1.2	5%	2W
R37						1			1		RD14DB3D1R5J	RES. CARBON	1.5	5%	2W
R37							1	1			RD14DB3DR51J	RES. CARBON	0.51	5%	2W
R37	1	1	1		1						RD14DB3DR68J	RES. CARBON	0.68	5%	2W
R38	1	1	1	1	1	1	1	1	1	1	RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R39				1						1	RD14DB3D1R2J	RES. CARBON	1.2	5%	2W
R39						1			1		RD14DB3D1R5J	RES. CARBON	1.5	5%	2W
R39							1	1			RD14DB3DR51J	RES. CARBON	0.51	5%	2W
R39	1	1	1		1						RD14DB3DR68J	RES. CARBON	0.68	5%	2W
R40							1				RD14DB3D101J	RES. CARBON	100	5%	2W
R40				1		1			1	1	RD14DB3D152J	RES. CARBON	1.5k	5%	2W
R40			1		1			1			RD14DB3D331J	RES. CARBON	330	5%	2W
R40	1										RD14DB3D391J	RES. CARBON	390	5%	2W
R40		1									RD14DB3D681J	RES. CARBON	680	5%	2W
R41			1		1		1	1			R92-4150-05	RES. SPECIAL	0.1	1%	3W
R41	1			1						1	R92-4151-05	RES. SPECIAL	0.22	1%	3W
R41		1				1			1		R92-4152-05	RES. SPECIAL	0.33	1%	3W
R42			1		1		1	1			RN73FH2A301D	RES. METAL FILM	300	0.5P	1/10W

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R42				1		1			1	1	RN73FH2A331D	RES. METAL FILM	330	0.5P	1/10W
R42	1										RN73FH2A391D	RES. METAL FILM	390	0.5P	1/10W
R42		1									RN73FH2A431D	RES. METAL FILM	430	0.5P	1/10W
R43			1		1		1	1			RN73FH2A301D	RES. METAL FILM	300	0.5P	1/10W
R43				1		1			1	1	RN73FH2A331D	RES. METAL FILM	330	0.5P	1/10W
R43	1										RN73FH2A391D	RES. METAL FILM	390	0.5P	1/10W
R43		1									RN73FH2A431D	RES. METAL FILM	430	0.5P	1/10W
R44	1	1	1	1	1	1	1	1	1	1	RN73FH2A752D	RES. METAL FILM	7.5k	0.5P	1/10W
R45	1	1	1	1	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R46	1	1	1	1	1	1	1	1	1	1	RN73FH2A752D	RES. METAL FILM	7.5k	0.5P	1/10W
R47	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R48	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R49	1	1	1	1	1	1	1	1	1	1	RK73FB2A512J	RES. CHIP (2✻1.25)	5.1k	5%	1/10W
R51	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R57							1				R92-0670-05	RES. JUMPER	0		
R57								1			RN73FH2A102D	RES. METAL FILM	1k	0.5P	1/10W
R57	1	1	1		1						RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R57				1		1					RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R57									1		RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R57										1	RN73FH2A473D	RES. METAL FILM	47k	0.5P	1/10W
R58							1	1			R92-0670-05	RES. JUMPER	0		
R58										1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R58	1	1	1		1						RN73FH2A113D	RES. METAL FILM	11k	0.5P	1/10W
R58				1		1			1		RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R59	1	1	1		1		1	1		1	R92-0670-05	RES. JUMPER	0		
R59									1		RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R59				1		1					RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R60	1	1	1		1		1	1	1	1	R92-0670-05	RES. JUMPER	0		
R60				1		1					RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R61	1	1	1		1		1	1	1	1	R92-0670-05	RES. JUMPER	0		
R61				1		1					RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R62	1	1	1	1	1	1		1	1	1	RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R63	1	1	1	1	1	1		1	1	1	R92-0670-05	RES. JUMPER	0		
R63							1				RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R64	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R65	1	1	1	1	1	1	1	1	1	1	RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R66	1	1	1	1	1	1	1	1	1	1	RK73FB2A242J	RES. CHIP (2✻1.25)	2.4k	5%	1/10W
R67	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R68	1	1	1	1	1	1	1	1	1	1	RK73FB2A511J	RES. CHIP (2✻1.25)	510	5%	1/10W
R69	1	1	1	1					1		R92-0670-05	RES. JUMPER	0		
R69					1	1	1	1		1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R70					1	1	1	1		1	RK73FB2A512J	RES. CHIP (2✻1.25)	5.1k	5%	1/10W
R71	1	1	1	1					1		R92-0670-05	RES. JUMPER	0		
R71					1	1	1	1		1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R72	1	1	1	1	1	1	1	1	1	1	RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R73	1	1	1	1	1	1	1	1	1	1	RK73FB2A242J	RES. CHIP (2✻1.25)	2.4k	5%	1/10W
R74	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R75	1	1	1	1	1	1	1	1	1	1	RK73FB2A511J	RES. CHIP (2✻1.25)	510	5%	1/10W
R76	1	1	1	1					1		R92-0670-05	RES. JUMPER	0		
R76					1	1	1	1		1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R77					1	1	1	1		1	RK73FB2A512J	RES. CHIP (2✻1.25)	5.1k	5%	1/10W
R78	1	1	1	1	1				1		R92-0670-05	RES. JUMPER	0		
R78						1	1	1		1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R79	1	1	1	1	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R80	1	1	1	1	1	1	1	1	1	1	RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W

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R81	1	1	1	1	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R82	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R83	1	1	1	1	1	1	1	1	1	1	RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R84	1					1					RK73FB2A122J	RES. CHIP (2✻1.25)	1.2k	5%	1/10W
R84				1							RK73FB2A271J	RES. CHIP (2✻1.25)	270	5%	1/10W
R84		1					1	1	1	1	RK73FB2A471J	RES. CHIP (2✻1.25)	470	5%	1/10W
R84			1		1						RK73FB2A751J	RES. CHIP (2✻1.25)	750	5%	1/10W
R85	1	1	1	1	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R86		1					1				RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R86									1		RK73FB2A153J	RES. CHIP (2✻1.25)	15k	5%	1/10W
R86	1					1					RK73FB2A222J	RES. CHIP (2✻1.25)	2.2k	5%	1/10W
R86				1							RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R86			1		1			1		1	RK73FB2A562J	RES. CHIP (2✻1.25)	5.6k	5%	1/10W
R87								1			RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R87	1	1	1		1	1					RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R87							1		1		RN73FH2A203D	RES. METAL FILM	20k	0.5P	1/10W
R87				1						1	RN73FH2A243D	RES. METAL FILM	24k	0.5P	1/10W
R88	1	1	1		1	1	1				RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R88									1		RN73FH2A203D	RES. METAL FILM	20k	0.5P	1/10W
R88				1						1	RN73FH2A243D	RES. METAL FILM	24k	0.5P	1/10W
R88								1			RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R89							1				RR92-0670-05	RES. JUMPER	0		
R89	1	1	1		1	1			1		RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R89				1						1	RN73FH2A243D	RES. METAL FILM	24k	0.5P	1/10W
R89								1			RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R90	1					1					RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R90		1	1	1	1		1	1	1	1	RK73FB2A751J	RES. CHIP (2✻1.25)	750	5%	1/10W
R91	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R92	1	1	1	1	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R93	1	1	1	1	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R94					1	1	1	1		1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R95					1	1	1	1		1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R96	1	1	1	1					1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R97	1	1	1	1					1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R98	1	1	1	1	1	1	1	1	1	1	RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R99	1	1	1	1	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R100	1	1	1	1	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R101	1		1	1	1	1	1	1	1	1	RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R102				1						1	RD14DB3D1R2J	RES. CARBON	1.2	5%	2W
R102									1		RD14DB3D1R5J	RES. CARBON	1.5	5%	2W
R102								1			RD14DB3DR51J	RES. CARBON	0.51	5%	2W
R102	1		1		1	1	1				RD14DB3DR68J	RES. CARBON	0.68	5%	2W
R103	1	1	1	1	1	1	1	1	1	1	RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R104				1						1	RD14DB3D1R2J	RES. CARBON	1.2	5%	2W
R104									1		RD14DB3D1R5J	RES. CARBON	1.5	5%	2W
R104								1			RD14DB3DR51J	RES. CARBON	0.51	5%	2W
R104	1	1	1		1	1	1				RD14DB3DR68J	RES. CARBON	0.68	5%	2W
R105	1	1	1	1	1	1	1	1	1	1	RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R106				1						1	RD14DB3D1R2J	RES. CARBON	1.2	5%	2W
R106									1		RD14DB3D1R5J	RES. CARBON	1.5	5%	2W
R106								1			RD14DB3DR51J	RES. CARBON	0.51	5%	2W
R106	1	1	1		1	1	1				RD14DB3DR68J	RES. CARBON	0.68	5%	2W
R107				1					1	1	RD14DB3D152J	RES. CARBON	1.5k	5%	2W
R107			1		1	1		1			RD14DB3D331J	RES. CARBON	330	5%	2W
R107	1										RD14DB3D391J	RES. CARBON	390	5%	2W

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R107		1									RD14DB3D681J	RES. CARBON	680	5%	2W
R108			1		1			1			RR92-4150-05	RES. SPECIAL	0.1	1%	3W
R108	1			1		1				1	RR92-4151-05	RES. SPECIAL	0.22	1%	3W
R108		1							1		RR92-4152-05	RES. SPECIAL	0.33	1%	3W
R109	1	1	1	1	1	1	1	1	1	1	RN73FH2A752D	RES. METAL FILM	7.5k	0.5P	1/10W
R110							1				RN73FH2A271D	RES. METAL FILM	270	0.5P	1/10W
R110			1		1			1			RN73FH2A301D	RES. METAL FILM	300	0.5P	1/10W
R110				1					1	1	RN73FH2A331D	RES. METAL FILM	330	0.5P	1/10W
R110	1										RN73FH2A391D	RES. METAL FILM	390	0.5P	1/10W
R110		1				1					RN73FH2A431D	RES. METAL FILM	430	0.5P	1/10W
R111							1				RN73FH2A271D	RES. METAL FILM	270	0.5P	1/10W
R111			1		1			1			RN73FH2A301D	RES. METAL FILM	300	0.5P	1/10W
R111				1					1	1	RN73FH2A331D	RES. METAL FILM	330	0.5P	1/10W
R111	1										RN73FH2A391D	RES. METAL FILM	390	0.5P	1/10W
R111		1				1					RN73FH2A431D	RES. METAL FILM	430	0.5P	1/10W
R112	1	1	1	1	1	1	1	1	1	1	RN73FH2A752D	RES. METAL FILM	7.5k	0.5P	1/10W
R113	1	1	1	1	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R114	1	1	1	1	1	1	1	1	1	1	RK73FB2A512J	RES. CHIP (2✻1.25)	5.1k	5%	1/10W
R115	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R116	1	1	1	1	1	1	1	1	1	1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R117	1	1	1	1					1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R118					1	1	1	1		1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R119	1	1	1	1							RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R119									1		RN73FH2A203D	RES. METAL FILM	20k	0.5P	1/10W
R120	1	1	1	1							RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R120									1		RN73FH2A203D	RES. METAL FILM	20k	0.5P	1/10W
R121	1	1	1	1					1		RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R122	1	1	1						1		RR92-0670-05	RES. JUMPER	0		
R122					1						RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R123	1	1	1	1					1		RR92-0670-05	RES. JUMPER	0		
R124								1			RN73FH2A102D	RES. METAL FILM	1k	0.5P	1/10W
R124						1	1				RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R124								1			RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R124									1		RN73FH2A473D	RES. METAL FILM	47k	0.5P	1/10W
R125								1			RR92-0670-05	RES. JUMPER	0		
R125										1	RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R125						1	1				RN73FH2A113D	RES. METAL FILM	11k	0.5P	1/10W
R125								1			RN73FH2A202D	RES. METAL FILM	2k	0.5P	1/10W
R126						1	1	1	1		RR92-0670-05	RES. JUMPER	0		
R127						1	1	1	1		RR92-0670-05	RES. JUMPER	0		
R128						1	1	1	1		RR92-0670-05	RES. JUMPER	0		
R129	1	1	1	1					1		RK73FB2A752J	RES. CHIP (2✻1.25)	7.5k	5%	1/10W
R129						1	1	1	1		RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R130						1	1	1	1		RR92-0670-05	RES. JUMPER	0		
R130					1						RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R130	1	1	1						1		RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R131	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R132	1	1	1	1	1	1	1	1	1	1	RK73FB2A511J	RES. CHIP (2✻1.25)	510	5%	1/10W
R133	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R134	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R135	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R136	1	1	1	1	1	1	1	1	1	1	RK73FB2A751J	RES. CHIP (2✻1.25)	750	5%	1/10W
R137	1	1	1	1	1	1	1	1	1	1	RK73FB2A432J	RES. CHIP (2✻1.25)	4.3k	5%	1/10W
R138	1	1	1	1	1	1	1	1	1	1	RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R139	1	1	1	1	1	1	1	1	1	1	RK73FB2A432J	RES. CHIP (2✻1.25)	4.3k	5%	1/10W

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⑪

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R140	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R141	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R142	1	1	1	1	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R143	1	1	1	1	1	1	1	1	1	1	RK73FB2A511J	RES. CHIP (2✻1.25)	510	5%	1/10W
R144	1	1	1	1	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R145	1	1	1	1	1	1	1	1	1	1	RK73FB2A152J	RES. CHIP (2✻1.25)	1.5k	5%	1/10W
R151	1	1				1		1	1		RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R152	1	1				1		1	1		RK73FB2A242J	RES. CHIP (2✻1.25)	2.4k	5%	1/10W
R153	1	1				1		1	1		RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R154	1	1				1		1	1		RK73FB2A511J	RES. CHIP (2✻1.25)	510	5%	1/10W
R155		1				1		1	1		R92-0670-05	RES. JUMPER	0		
R155	1										RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R156	1										RK73FB2A512J	RES. CHIP (2✻1.25)	5.1k	5%	1/10W
R157		1				1		1	1		R92-0670-05	RES. JUMPER	0		
R157	1										RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R158	1	1				1		1	1		RK73FB2A242J	RES. CHIP (2✻1.25)	2.4k	5%	1/10W
R159	1	1				1		1	1		RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R160	1	1				1		1	1		RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R161	1	1				1		1	1		RK73FB2A511J	RES. CHIP (2✻1.25)	510	5%	1/10W
R162		1				1		1	1		R92-0670-05	RES. JUMPER	0		
R162	1										RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R163	1										RK73FB2A512J	RES. CHIP (2✻1.25)	5.1k	5%	1/10W
R164		1				1		1	1		R92-0670-05	RES. JUMPER	0		
R164	1										RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R165	1	1				1		1	1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R166	1	1				1		1	1		RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R167	1					1					RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R167								1	1		RK73FB2A471J	RES. CHIP (2✻1.25)	470	5%	1/10W
R167		1									RK73FB2A751J	RES. CHIP (2✻1.25)	750	5%	1/10W
R168	1	1				1		1	1		RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R169		1									RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R169	1					1					RK73FB2A471J	RES. CHIP (2✻1.25)	470	5%	1/10W
R169									1		RK73FB2A562J	RES. CHIP (2✻1.25)	5.6k	5%	1/10W
R169								1			RK73FB2A752J	RES. CHIP (2✻1.25)	7.5k	5%	1/10W
R170	1	1				1					RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R170								1	1		RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R171									1		R92-0670-05	RES. JUMPER	0		
R171								1			RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R171		1									RN73FH2A202D	RES. METAL FILM	2k	0.5P	1/10W
R171	1					1					RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R172		1							1		R92-0670-05	RES. JUMPER	0		
R172								1			RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R172	1					1					RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R173	1					1					RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R173		1						1	1		RK73FB2A751J	RES. CHIP (2✻1.25)	750	5%	1/10W
R174	1	1				1		1	1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R175	1	1				1		1	1		RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R176	1	1				1		1	1		RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R177	1										RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R178	1										RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R179		1				1		1	1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R180		1				1		1	1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R181	1	1				1		1	1		RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R182	1	1				1		1	1		RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R183	1	1				1		1	1		RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W

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⑫

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R184	1	1	1		1	1	1	1	1		RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R185								1			RD14DB3D1R2J	RES. CARBON	1.2	5%	2W
R185		1							1		RD14DB3DR22J	RES. CARBON	0.22	5%	2W
R185	1					1					RD14DB3DR51J	RES. CARBON	0.51	5%	2W
R185			1		1		1				RD14DB3DR68J	RES. CARBON	0.68	5%	2W
R186	1	1	1	1	1	1	1	1	1	1	RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R187				1				1		1	RD14DB3D1R2J	RES. CARBON	1.2	5%	2W
R187		1							1		RD14DB3DR22J	RES. CARBON	0.22	5%	2W
R187	1					1					RD14DB3DR51J	RES. CARBON	0.51	5%	2W
R187			1		1		1				RD14DB3DR68J	RES. CARBON	0.68	5%	2W
R188	1					1					RD14DB3D221J	RES. CARBON	220	5%	2W
R188							1				RD14DB3D331J	RES. CARBON	330	5%	2W
R188		1							1		RD14DB3D680J	RES. CARBON	68	5%	2W
R188								1			RD14DB3D681J	RES. CARBON	680	5%	2W
R189		1					1		1		R92-4150-05	RES. SPECIAL	0.1	1%	3W
R189	1					1		1			R92-4151-05	RES. SPECIAL	0.22	1%	3W
R190		1							1		RN73FH2A271D	RES. METAL FILM	270	0.5P	1/10W
R190								1			RN73FH2A331D	RES. METAL FILM	330	0.5P	1/10W
R190	1					1					RN73FH2A431D	RES. METAL FILM	430	0.5P	1/10W
R191		1							1		RN73FH2A271D	RES. METAL FILM	270	0.5P	1/10W
R191								1			RN73FH2A331D	RES. METAL FILM	330	0.5P	1/10W
R191	1					1					RN73FH2A431D	RES. METAL FILM	430	0.5P	1/10W
R192	1					1		1			RN73FH2A752D	RES. METAL FILM	7.5k	0.5P	1/10W
R192		1							1		RN73FH2A822D	RES. METAL FILM	8.2k	0.5P	1/10W
R193	1					1		1			RN73FH2A752D	RES. METAL FILM	7.5k	0.5P	1/10W
R193		1							1		RN73FH2A822D	RES. METAL FILM	8.2k	0.5P	1/10W
R194	1	1				1		1	1		RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R195	1	1				1		1	1		RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R196	1	1				1		1	1		RK73FB2A512J	RES. CHIP (2✻1.25)	5.1k	5%	1/10W
R197	1	1				1		1	1		RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R198		1				1		1	1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R199	1										RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R200						1					RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R200								1	1		RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R200		1									RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R201									1		R92-0670-05	RES. JUMPER	0		
R201								1			RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R201		1				1					RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R202									1		R92-0670-05	RES. JUMPER	0		
R202								1			RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R202		1				1					RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R203						1		1	1		R92-0670-05	RES. JUMPER	0		
R203		1									RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R204		1				1		1	1		R92-0670-05	RES. JUMPER	0		
R205	1										RN73FH2A102D	RES. METAL FILM	1k	0.5P	1/10W
R206	1										R92-0670-05	RES. JUMPER	0		
R207	1										R92-0670-05	RES. JUMPER	0		
R208	1										R92-0670-05	RES. JUMPER	0		
R209	1										R92-0670-05	RES. JUMPER	0		
R210	1										R92-0670-05	RES. JUMPER	0		
R210		1				1		1	1		RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R211		1				1		1	1		RK73FB2A752J	RES. CHIP (2✻1.25)	7.5k	5%	1/10W
R211	1										RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R212	1	1				1		1	1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R213	1										RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W

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R214	1										RK73FB2A242J	RES. CHIP (2✻1.25)	2.4k	5%	1/10W
R215	1										RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R216	1										RK73FB2A511J	RES. CHIP (2✻1.25)	510	5%	1/10W
R217	1										R92-0670-05	RES. JUMPER	0		
R219	1										R92-0670-05	RES. JUMPER	0		
R220	1										RK73FB2A242J	RES. CHIP (2✻1.25)	2.4k	5%	1/10W
R221	1										RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R222	1										RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R223	1										RK73FB2A511J	RES. CHIP (2✻1.25)	510	5%	1/10W
R224	1										R92-0670-05	RES. JUMPER	0		
R226	1										R92-0670-05	RES. JUMPER	0		
R227	1	1				1		1	1		RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R228	1	1				1		1	1		RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R229	1	1				1		1	1		RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R230	1										RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R231	1										RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R232	1										RK73FB2A751J	RES. CHIP (2✻1.25)	750	5%	1/10W
R233	1										RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R234	1										RK73FB2A471J	RES. CHIP (2✻1.25)	470	5%	1/10W
R235	1										RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R236	1										RN73FH2A202D	RES. METAL FILM	2k	0.5P	1/10W
R237	1										R92-0670-05	RES. JUMPER	0		
R238	1										RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R239	1										RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R240	1										RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R241	1										RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R244	1										RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R245	1										RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R246	1										RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R247	1										RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R248	1										RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R249		1	1		1		1	1	1		RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R250								1			RD14DB3D1R2J	RES. CARBON	1.2	5%	2W
R250		1							1		RD14DB3DR22J	RES. CARBON	0.22	5%	2W
R250			1		1		1				RD14DB3DR68J	RES. CARBON	0.68	5%	2W
R251	1	1	1	1	1		1	1	1	1	RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R252	1										RD14DB3D0R1J	RES. CARBON	0.1	5%	2W
R252				1				1		1	RD14DB3D1R2J	RES. CARBON	1.2	5%	2W
R252		1							1		RD14DB3DR22J	RES. CARBON	0.22	5%	2W
R252			1		1		1				RD14DB3DR68J	RES. CARBON	0.68	5%	2W
R253	1										RD14DB3D331J	RES. CARBON	330	5%	2W
R254	1										R92-4152-05	RES. SPECIAL	0.33	1%	3W
R255	1										RN73FH2A331D	RES. METAL FILM	330	0.5P	1/10W
R256	1										RN73FH2A331D	RES. METAL FILM	330	0.5P	1/10W
R257	1										RN73FH2A752D	RES. METAL FILM	7.5k	0.5P	1/10W
R258	1										RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R259	1										RN73FH2A752D	RES. METAL FILM	7.5k	0.5P	1/10W
R260	1										RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R261	1										RN73FH2A103D	RES. METAL FILM	10k	0.5P	1/10W
R262	1										RK73FB2A512J	RES. CHIP (2✻1.25)	5.1k	5%	1/10W
R263	1										RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R265	1										RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R266	1										RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R267	1										RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W
R268	1										RN73FH2A302D	RES. METAL FILM	3k	0.5P	1/10W

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Ref. No	–00	–01	–02	–03	–04	–05	–06	–07	–08	–09	Parts No.	Name & Description			
R269	1										R92-0670-05	RES. JUMPER	0		
R275		1				1		1	1		R92-0670-05	RES. JUMPER	0		
R275	1										RK73FB2A752J	RES. CHIP (2✻1.25)	7.5k	5%	1/10W
R276		1				1		1	1		R92-0670-05	RES. JUMPER	0		
R276	1										RN73FH2A153D	RES. METAL FILM	15k	0.5P	1/10W
R277	1										RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R278	1	1				1		1	1		RK73FB2A511J	RES. CHIP (2✻1.25)	510	5%	1/10W
R279		1				1		1	1		RK73FB2A751J	RES. CHIP (2✻1.25)	750	5%	1/10W
R280	1										RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R281	1	1				1		1	1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R282	1	1				1		1	1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R283	1	1				1		1	1		RK73FB2A432J	RES. CHIP (2✻1.25)	4.3k	5%	1/10W
R284	1	1				1		1	1		RK73FB2A432J	RES. CHIP (2✻1.25)	4.3k	5%	1/10W
R285	1	1				1		1	1		RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R286	1	1				1		1	1		RK73FB2A511J	RES. CHIP (2✻1.25)	510	5%	1/10W
R287	1	1				1		1	1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R288	1	1				1		1	1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R289	1	1				1		1	1		RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R290	1	1				1		1	1		RK73FB2A152J	RES. CHIP (2✻1.25)	1.5k	5%	1/10W
R291	1	1				1		1	1		RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R292	1										R92-0670-05	RES. JUMPER	0		
R294		1				1		1	1		R92-0670-05	RES. JUMPER	0		
R295		1				1		1	1		R92-0670-05	RES. JUMPER	0		
R300			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R301			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R302			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R303			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R304			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R305			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R306			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R307			1	1	1		1			1	R92-0670-05	RES. JUMPER	0		
R308			1	1	1		1			1	R92-0670-05	RES. JUMPER	0		
R309			1	1	1		1			1	R92-0670-05	RES. JUMPER	0		
R310	1										R92-0670-05	RES. JUMPER	0		
R311	1										R92-0670-05	RES. JUMPER	0		
R312		1					1	1	1		R92-0670-05	RES. JUMPER	0		
R313		1					1	1	1		R92-0670-05	RES. JUMPER	0		
R314	1										R92-0670-05	RES. JUMPER	0		
R315	1										R92-0670-05	RES. JUMPER	0		
R316		1					1	1	1		R92-0670-05	RES. JUMPER	0		
R317		1					1	1	1		R92-0670-05	RES. JUMPER	0		
R318		1					1	1	1		R92-0670-05	RES. JUMPER	0		
R319		1					1	1	1		R92-0670-05	RES. JUMPER	0		
R320		1					1	1	1		R92-0670-05	RES. JUMPER	0		
R321	1										R92-0670-05	RES. JUMPER	0		
R322		1				1		1	1		R92-0670-05	RES. JUMPER	0		
R323	1										R92-0670-05	RES. JUMPER	0		
R324	1										R92-0670-05	RES. JUMPER	0		
R325	1										R92-0670-05	RES. JUMPER	0		
R326	1										R92-0670-05	RES. JUMPER	0		
R327	1										R92-0670-05	RES. JUMPER	0		
R328		1					1		1		R92-4150-05	RES. SPECIAL	0.1	1%	3W
R329			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R330			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R331			1	1	1					1	R92-0670-05	RES. JUMPER	0		

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R332			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R333			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R334			1	1	1		1			1	R92-0670-05	RES. JUMPER	0		
R335			1	1	1		1			1	R92-0670-05	RES. JUMPER	0		
R336	1										R92-0670-05	RES. JUMPER	0		
R337	1										R92-0670-05	RES. JUMPER	0		
R338		1				1	1	1	1		R92-0670-05	RES. JUMPER	0		
R339		1				1	1	1	1		R92-0670-05	RES. JUMPER	0		
R340	1										R92-0670-05	RES. JUMPER	0		
R341	1										R92-0670-05	RES. JUMPER	0		
R342		1					1	1	1		R92-0670-05	RES. JUMPER	0		
R343		1					1	1	1		R92-0670-05	RES. JUMPER	0		
R344		1					1	1	1		R92-0670-05	RES. JUMPER	0		
R345		1					1	1	1		R92-0670-05	RES. JUMPER	0		
R346	1	1	1	1	1	1	1	1	1	1	RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R347	1	1	1	1	1	1		1	1	1	RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R348	1	1	1	1	1	1		1	1	1	RK73FB2A100J	RES. CHIP (2✻1.25)	10	5%	1/10W
R351	1			1			1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R352	1			1			1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R353	1			1		1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R354	1			1		1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R355	1			1		1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R356	1			1			1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R357	1						1	1	1		RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R358	1			1			1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R359							1	1	1		RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R360			1	1	1					1	R92-0670-05	RES. JUMPER	0		
R361	1			1			1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R362		1					1		1		R92-0670-05	RES. JUMPER	0		
R363		1					1		1		R92-0670-05	RES. JUMPER	0		
R364	1										R92-0670-05	RES. JUMPER	0		
R365					1		1	1	1	1	R92-0670-05	RES. JUMPER	0		
R366					1		1	1	1	1	R92-0670-05	RES. JUMPER	0		
R367							1				R92-0670-05	RES. JUMPER	0		
R368							1				R92-0670-05	RES. JUMPER	0		
R369							1				RN73FH2A123D	RES. METAL FILM	12k	0.5P	1/10W
R373	1			1			1	1	1	1	RK73FB2A473J	RES. CHIP (2✻1.25)	47k	5%	1/10W
R374	1			1			1	1	1	1	RK73FB2A473J	RES. CHIP (2✻1.25)	47k	5%	1/10W
R375	1			1			1	1	1	1	RK73FB2A473J	RES. CHIP (2✻1.25)	47k	5%	1/10W
R376	1			1		1	1	1	1	1	RK73FB2A473J	RES. CHIP (2✻1.25)	47k	5%	1/10W
R377	1			1		1	1	1	1	1	RK73FB2A473J	RES. CHIP (2✻1.25)	47k	5%	1/10W
R378	1			1		1	1	1	1	1	RK73FB2A473J	RES. CHIP (2✻1.25)	47k	5%	1/10W
R379	1			1			1	1	1	1	RK73FB2A473J	RES. CHIP (2✻1.25)	47k	5%	1/10W
R380	1						1	1	1		RK73FB2A473J	RES. CHIP (2✻1.25)	47k	5%	1/10W
R381	1			1			1	1	1	1	RK73FB2A473J	RES. CHIP (2✻1.25)	47k	5%	1/10W
R382							1	1	1		RK73FB2A473J	RES. CHIP (2✻1.25)	47k	5%	1/10W
R500	1										R92-0670-05	RES. JUMPER	0		
R501		1									R92-0670-05	RES. JUMPER	0		
R502			1								R92-0670-05	RES. JUMPER	0		
R503				1							R92-0670-05	RES. JUMPER	0		
R504					1						R92-0670-05	RES. JUMPER	0		
R505						1					R92-0670-05	RES. JUMPER	0		
R506							1				R92-0670-05	RES. JUMPER	0		
R507								1			R92-0670-05	RES. JUMPER	0		
R508									1		R92-0670-05	RES. JUMPER	0		
R509										1	R92-0670-05	RES. JUMPER	0		

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CPU UNIT (X77-2380-XX)											
	1	1	1	1	1	1	E02-0217-05	SOCKET			
	X	X	X	X	X	X	AT29C010A-KW3	PROGRAMED ROM			
	1	1	1	1	1	1	J73-0753-12	PCB(UNMOUNTED)			
A1	1	1	1	1	1	1	W02-4057-04	SWITCH UNIT			
C1	1	1	1	1	1	1	C92-1547-05	CAP.ELECTRO	100µ	20%	10V
C2	1	1	1	1	1	1	C92-1547-05	CAP.ELECTRO	100µ	20%	10V
C3	1	1	1	1	1	1	CC73GCH1H100J	CAP.CERAMIC	10p	5%	50V
C4	1	1	1	1	1	1	CC73GCH1H100J	CAP.CERAMIC	10p	5%	50V
C5	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C6	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C7	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C8	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C9	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C10	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C11	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C12	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C13	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C14	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C15	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C16	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C17	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C18	1	1	1	1	1	1	CK73GF1A105Z	CAP.CERAMIC	1µ	-20/80%	10V
C19	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C20	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C21	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C22	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C23	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C24	1	1	1	1	1	1	CC73GSL1H102J	CAP.CERAMIC	0.001µ	5%	50V
C25	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C26	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C27	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C28	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C29	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C30	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C31	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C32	1	1				1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C33	1	1				1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C34	1	1				1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C35	1						CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C36	1	1				1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C37	1	1				1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C38	1	1				1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
C39	1	1	1	1	1	1	C91-2889-05	CAP. HIGH POWER	1000p		250V
C40	1	1	1	1	1	1	C91-2889-05	CAP. HIGH POWER	1000p		250V
C41	1	1	1	1	1	1	C91-2889-05	CAP. HIGH POWER	1000p		250V
C67	1	1	1	1	1	1	CK73GF1E104Z	CAP.CERAMIC	0.1µ	-20/80%	25V
CN1	1	1	1	1	1	1	E40-5314-05	PIN CONNECTOR	25P		
CN2	1	1	1	1	1	1	E40-5314-05	PIN CONNECTOR	25P		
CN3	1	1	1	1	1	1	E40-5314-05	PIN CONNECTOR	25P		
CN4	1	1	1	1	1	1	E40-4280-05	PIN CONNECTOR	7P		
CN5	1	1	1	1	1	1	E40-3305-05	PIN CONNECTOR	8P		

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CN6	1	1	1	1	1	1	E40-4290-05	PIN CONNECTOR 5P
CN7	1	1	1	1	1	1	E40-4290-05	PIN CONNECTOR 5P
CN8	1	1	1	1	1	1	E40-7860-05	PIN CONNECTOR 19P
CN9	1	1	1	1	1	1	E40-7860-05	PIN CONNECTOR 19P
CN10	1	1	1	1	1	1	E40-7861-05	PIN CONNECTOR 5P
CN11	1	1	1	1	1	1	J13-0547-05	FUSE CLIP
D1	1	1	1	1	1	1	DAP202K	DIODE
D2	1	1	1	1	1	1	DAP202K	DIODE
D3	1	1	1	1	1	1	DAP202K	DIODE
D4	1	1	1	1	1	1	DAN202K	DIODE
D5	1	1	1	1	1	1	DAN202K	DIODE
D6	1	1	1	1	1	1	DAN202K	DIODE
D7	1	1	1	1	1	1	1SS355	DIODE
D8	1	1	1	1	1	1	1SS355	DIODE
D9	1	1	1	1	1	1	1SS355	DIODE
IC1	1	1	1	1	1	1	HD6413007F20	IC
IC2	1	1	1	1	1	1	AT29C010A-12JI	IC
IC3	1	1	1	1	1	1	GM76C256CLLFW7	IC
IC4	1	1	1	1	1	1	BR93LC56F-W	IC
IC5	1	1	1	1	1	1	BR93LC56F-W	IC
IC6	1	1	1	1	1	1	TC74HC138AF	IC
IC7	1	1	1	1	1	1	TC74HC574AF	IC
IC8	1	1	1	1	1	1	TC74HC574AF	IC
IC9	1	1	1	1	1	1	TC74HC574AF	IC
IC10	1	1	1	1	1	1	TC74HC374AF	IC
IC11	1	1	1	1	1	1	MB3771PF-G-BND	IC
IC12	1	1	1	1	1	1	TC74HC74AF	IC
IC13	1	1	1	1	1	1	TC74HC32AF	IC
IC14	1	1	1	1	1	1	TC74HC04AF	IC
J1	1	1	1	1	1	1	E03-0229-05	AC INLET
PH1	1	1	1	1	1	1	PC410	IC, PHOTO COUPLER
PH2	1	1	1	1	1	1	PC410	IC, PHOTO COUPLER
PH3	1	1	1	1	1	1	PC410	IC, PHOTO COUPLER
PH4	1	1	1	1	1	1	PC410	IC, PHOTO COUPLER
PH5	1	1	1	1	1	1	PC410	IC, PHOTO COUPLER
PH6	1	1	1	1	1	1	PC410	IC, PHOTO COUPLER
PH7	1	1	1	1	1	1	PC357NT	IC, PHOTO COUPLER
PH8	1	1	1	1	1	1	PC357NT	IC, PHOTO COUPLER
PH9	1	1	1	1	1	1	PC357NT	IC, PHOTO COUPLER
PH10	1	1	1	1	1	1	PC357NT	IC, PHOTO COUPLER
PH11	1	1	1	1	1	1	PC357NT	IC, PHOTO COUPLER
PH12	1	1	1	1	1	1	PC410	IC, PHOTO COUPLER
PH13	1	1	1	1	1	1	PC357NT	IC, PHOTO COUPLER
PH14	1	1	1	1	1	1	PC357NT	IC, PHOTO COUPLER
PH15	1	1	1	1	1	1	PC357NT	IC, PHOTO COUPLER
PH16	1	1				1	PC410	IC, PHOTO COUPLER
PH17	1	1				1	PC410	IC, PHOTO COUPLER
PH18	1	1				1	PC410	IC, PHOTO COUPLER
PH19	1						PC410	IC, PHOTO COUPLER
PH20	1	1				1	PC410	IC, PHOTO COUPLER
PH21	1	1				1	PC410	IC, PHOTO COUPLER
PH22	1	1				1	PC357NT	IC, PHOTO COUPLER
PH23	1	1				1	PC357NT	IC, PHOTO COUPLER
PH24	1	1				1	PC357NT	IC, PHOTO COUPLER

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❸

Ref. No	-00	-01	-02	-03	-04	-05	Parts No.	Name & Description			
PH25	1	1				1	PC357NT	IC, PHOTO COUPLER			
PH26	1						PC357NT	IC, PHOTO COUPLER			
PH27	1	1				1	PC410	IC, PHOTO COUPLER			
PH28	1	1				1	PC357NT	IC, PHOTO COUPLER			
PH29	1						PC357NT	IC, PHOTO COUPLER			
Q1	1	1	1	1	1	1	2SC2714(O)	TR.SI, NPN			
Q2	1	1	1	1	1	1	2SC2714(O)	TR.SI, NPN			
R1	1	1	1	1	1	1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R2	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R3	1	1	1	1	1	1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R4	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R5	1	1	1	1	1	1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R6	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R7	1	1	1	1	1	1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R8	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R9	1	1	1	1	1	1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R10	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R11	1	1	1	1	1	1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R12	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R13	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R14	1	1	1	1	1	1	RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R15	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R16	1	1	1	1	1	1	RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R17	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R18	1	1	1	1	1	1	RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R19	1	1	1	1	1	1	R92-0670-05	RES. JUMPER	0		
R22	1	1	1	1	1	1	RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R23	1	1	1	1	1	1	RK73FB2A471J	RES. CHIP (2✻1.25)	470	5%	1/10W
R24					1	1	R92-0670-05	RES. JUMPER	0		
R25	1	1	1	1			RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R26	1	1	1	1			R92-0670-05	RES. JUMPER	0		
R27					1	1	RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R28	1	1	1	1	1	1	RK73FB2A471J	RES. CHIP (2✻1.25)	470	5%	1/10W
R29	1	1	1	1	1	1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R30	1	1	1	1	1	1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R32	1	1	1	1	1	1	R92-0670-05	RES. JUMPER	0		
R33	1	1	1	1	1	1	R92-0670-05	RES. JUMPER	0		
R35	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R36	1	1	1	1			R92-0670-05	RES. JUMPER	0		
R37					1	1	R92-0670-05	RES. JUMPER	0		
R38					1	1	R92-0670-05	RES. JUMPER	0		
R39	1	1	1	1			R92-0670-05	RES. JUMPER	0		
R40	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R41	1	1	1	1	1	1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R42	1	1	1	1	1	1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R43	1	1				1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R44	1	1				1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R45	1	1				1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R46	1	1				1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R47	1	1				1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R48	1	1				1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R49	1						RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R50	1						RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R51	1	1				1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R52	1	1				1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W

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❹

Ref. No	-00	-01	-02	-03	-04	-05	Parts No.	Name & Description			
R53	1	1				1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R54	1	1				1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R55	1	1				1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R56	1	1				1	RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R57	1	1				1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R58	1	1				1	RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R59	1	1				1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R60	1	1				1	RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R61	1						R92-0670-05	RES. JUMPER	0		
R62		1				1	RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R63		1				1	R92-0670-05	RES. JUMPER	0		
R64	1					1	RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R65	1	1				1	RK73FB2A471J	RES. CHIP (2✻1.25)	470	5%	1/10W
R67	1						RK73FB2A472J	RES. CHIP (2✻1.25)	4.7k	5%	1/10W
R68	1						R92-0670-05	RES. JUMPER	0		
R70	1						RK73FB2A471J	RES. CHIP (2✻1.25)	470	5%	1/10W
R71	1	1				1	RK73FB2A102J	RES. CHIP (2✻1.25)	1k	5%	1/10W
R72	1	1				1	RK73FB2A302J	RES. CHIP (2✻1.25)	3k	5%	1/10W
R73		1				1	R92-0670-05	RES. JUMPER	0		
R74	1						R92-0670-05	RES. JUMPER	0		
R75	1						R92-0670-05	RES. JUMPER	0		
R76		1				1	R92-0670-05	RES. JUMPER	0		
R77	1	1				1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R78	1						R92-0670-05	RES. JUMPER	0		
R81	1						R92-0670-05	RES. JUMPER	0		
R82	1						RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R160	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R161	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R162	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R163	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R164	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R165	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R166	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R167	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R200	1						R92-0670-05	RES. JUMPER	0		
R201		1					R92-0670-05	RES. JUMPER	0		
R202			1				R92-0670-05	RES. JUMPER	0		
R203				1			R92-0670-05	RES. JUMPER	0		
R204					1		R92-0670-05	RES. JUMPER	0		
R205						1	R92-0670-05	RES. JUMPER	0		
R250	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R251	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R252	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R253	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R254	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R255	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R256	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W
R257	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R258	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R259	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R260	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R261	1	1	1	1	1	1	RK73FB2A101J	RES. CHIP (2✻1.25)	100	5%	1/10W
R264	1	1	1	1	1	1	RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R265	1	1	1	1	1	1	RK73FB2A202J	RES. CHIP (2✻1.25)	2k	5%	1/10W
R266	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25)	10k	5%	1/10W

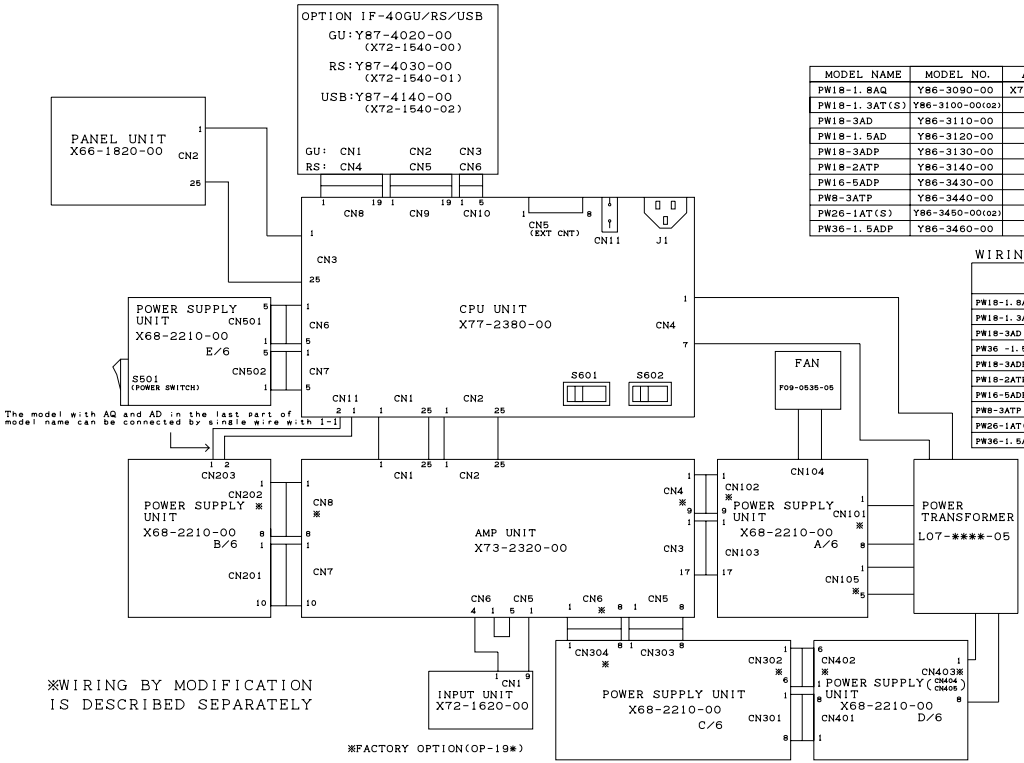
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Ref. No	-00	-01	-02	-03	-04	-05	Parts No.	Name & Description
R267	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R268	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R269	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R270	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R271	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R272	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R273	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R274	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R275	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R276	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R277	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R278	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R279	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R280	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R281	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R282	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
R283			1	1	1		R92-0670-05	RES. JUMPER 0
R284	1	1	1	1	1	1	RK73FB2A103J	RES. CHIP (2✻1.25) 10k 5% 1/10W
X1	1	1	1	1	1	1	L78-0125-05	RESONATOR

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SCHEMATIC DIAGRAM



MODEL NAME	MODEL NO.	AMP UNIT	CPU UNIT	POWER SUPPLY UNIT	PANEL UNIT	POWER TRANSFORMER
PW18-1.8AQ	Y86-3090-00	X73-2320-00	X77-2380-00	X68-2210-00	X66-1820-02	L07-1587-05
PW18-1.3AT(S)	Y86-3100-00(02)	- 01	- 01	- 01 (09)	" 01	L07-1588-05
PW18-3AD	Y86-3110-00	- 02	- 02	- 02	" 00	L07-1589-05
PW18-1.5AD	Y86-3120-00	- 03	- 03	- 03	" 00	L07-1590-05
PW18-3ADP	Y86-3130-00	- 04	- 04	- 04	" 00	L07-1589-05
PW18-2ATP	Y86-3140-00	- 05	- 05	- 05	" 01	L07-1591-05
PW16-5ADP	Y86-3430-00	- 06	- 04	X68-2300-00	" 00	L07-1595-05
PW8-3ATP	Y86-3440-00	- 07	- 05	X68-2210-06	" 01	L07-1596-05
PW26-1AT(S)	Y86-3450-00(02)	- 08	- 01	- 07 (11)	" 01	L07-1597-05
PW36-1.5ADP	Y86-3460-00	- 09	- 04	- 08	" 00	L07-1590-05

WIRING LIST FOR CONNECTORS BY MODEL BY MODIFICATION

	X68-2210-00 (16-5ADP:X68-2300-00)										X73-2320-00			
	※※	CN101	CN102	CN105	CN202	CN302	CN304	CN402	CN403	CN404	CN405	※※	CN4	CN6	CN8
PW18-1.8AQ	0-00	-	-	○	○	○	○	○	○	-	-	0-00	-	○	○
PW18-1.3AT(S)	0-01 (0-09)	○	○	-	○	○	○	○	○	-	-	0-01	○	○	○
PW18-3AD	0-02	-	-	○	-	-	-	-	-	-	○	0-02	-	-	-
PW36 -1.5AD	0-03	-	-	○	-	-	-	-	-	○	-	0-03	-	-	-
PW18-3ADP	0-04	-	-	○	-	-	-	-	-	-	○	0-04	-	-	-
PW18-2ATP	0-05	○	○	-	○	○	○	○	○	-	-	0-05	○	○	○
PW16-5ADP	0-00	-	-	○	○	○	○	○	○	-	-	0-06	-	○	○
PW8-3ATP	0-06	○	○	-	○	○	○	○	○	-	-	0-07	○	○	○
PW26-1AT(S)	0-07 (0-11)	○	○	-	○	○	○	○	○	-	-	0-08	○	○	○
PW36-1.5ADP	0-08	-	-	○	-	-	-	-	-	○	-	0-09	-	-	-

MODEL NAME FOR FACTORY OPTION

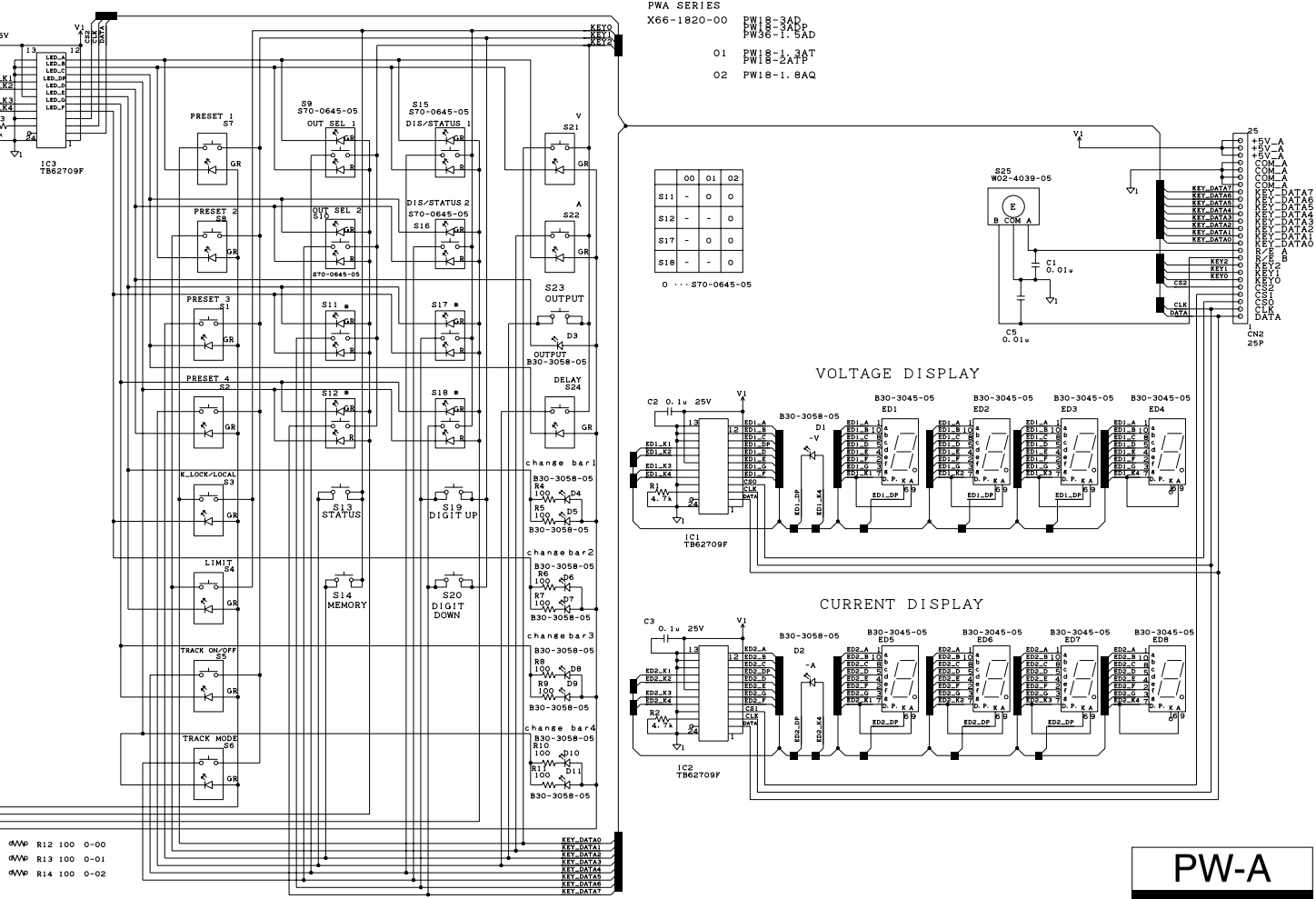
MODEL NAME	MODEL NO.	OPTION	OPTION Y NO.	INPUT UNIT
PW18-1.8AQYB	Y87-4170-00	OP-19A	Y87-4150-00	X72-1620-00
PW18-1.3ATYB	Y87-4180-00	- B	- 01	- 01
PW18-3ADYB	Y87-4190-00	- E	- 04	- 04
PW36-1.5ADYB	Y87-4200-00	- F	- 05	- 05
PW18-3ADPYB	Y87-4210-00	- G	- 06	- 06
PW18-2ATPYB	Y87-4220-00	- D	- 03	- 03
PW16-5ADPYB	Y87-4230-00	- G	- 06	- 06
PW8-3ATPYB	Y87-4240-00	- C	- 02	- 02
PW26-1ATYB	Y87-4250-00	- B	- 01	- 01
PW36-1.5ADPYB	Y87-4260-00	- H	- 07	- 07
PW18-1.3ATSYB	Y87-4270-00	- B	- 01	- 01
PW26-1ATSYB	Y87-4280-00	- B	- 01	- 01

PW-A

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SCHEMATIC DIAGRAM

UNIT X66-1820-xx



	00	01	02
S11	-	O	O
S12	-	-	O
S17	-	O	O
S18	-	-	O

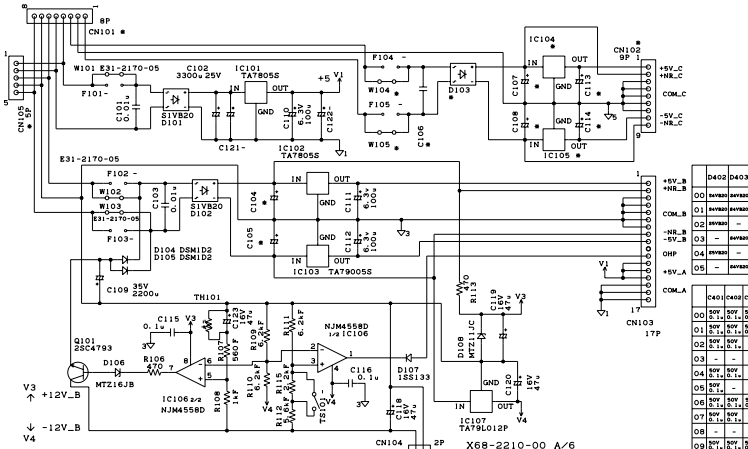
O ··· S70-0645-05

PW-A

KENWOOD

SCHEMATIC DIAGRAM

POWER SUPPLY UNIT X68-2210-xx



PW-A SERIES
X68-2210-xx

0-00 PW18-1.8AQ
0-01 PW18-1.3AT
0-02 PW18-3AD
0-03 PW36-1.5AD
0-04 PW18-3ADP
0-05 PW18-2ATP
0-06 PW36-3ATP
0-07 PW26-1AT
0-08 PW36-1.5ADP
0-09 PW18-1.3ATPS
0-11 PW26-1ATS

X68-2210-00 A/6

	D402	D403	D404	W409 W416	CN 403	CN 404	CN 405
00	SAY820	SAY820	SAY820	-	VH 8P	-	-
01	SAY820	SAY820	SAY820	-	VH 8P	-	-
02	SAY820	-	-	O	-	-	VH 4P
03	-	SAY820	SAY820	-	-	-	VH 4P
04	SAY820	-	-	O	-	-	VH 4P
05	-	SAY820	SAY820	-	VH 8P	-	-

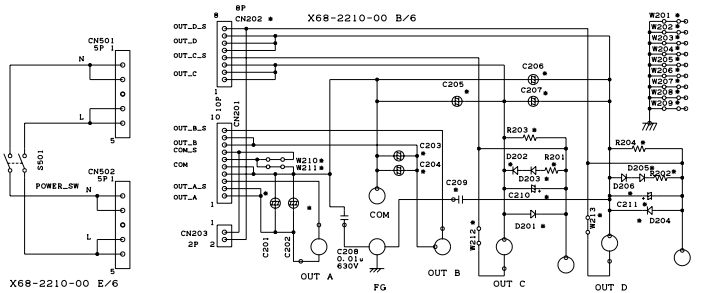
	D401	W403 W404	W405 W406	W407 W408
00	SAY820	O	O	O
01	SAY820	O	O	O
02	SAY820	O	-	-
03	-	-	O	O
04	SAY820	O	-	-
05	SAY820	O	O	O
06	SAY820	O	O	O
07	SAY820	O	O	O
08	-	-	O	O
09	SAY820	O	O	O
11	SAY820	O	O	O

X68-2210-00 D/6

X68-2210-00 F/6

	CN 202	C201	C202	C203	C204	C205	C206	C207	W201	W202	W203	W204	W205	W206	W207	W208	W210	W211	C209	C104 C105	CN 101	CN 102	CN 105	W104 W105	C106	D103	IC104	IC105	C107 C108	C113 C114	CN302	CN303	R417 R418	R419 R420	R413 R414	R421 R422	D201 D202	C210 C211
00	8P	50V 470u	-	25V 470u	-	16V 470u	-	10V 2200u	O	-	-	-	-	-	-	-	O	-	-	25V 2200u	-	-	5P	-	-	-	-	-	-	6P	8P	-	-	O	10	-	-
01	8P	50V 470u	-	25V 470u	-	-	-	10V 1000u	-	O	-	-	-	-	-	-	-	-	-	25V 2200u	8P	9P	-	O	50V 0.01u	EIV820	TAT8058	TAT8006S	25V 2200u	6.3V 100u	6P	8P	O	-	O	10	-	-
02	-	25V 470u	-	25V 470u	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	25V 2200u	-	-	5P	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03	-	50V 100u	50V 100u	50V 100u	50V 100u	-	-	-	-	-	-	O	-	-	-	-	-	-	-	25V 2200u	-	-	5P	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04	-	25V 470u	-	25V 470u	-	-	-	-	-	-	-	-	O	-	-	-	O	-	-	25V 2200u	-	-	5P	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05	8P	50V 470u	-	25V 470u	-	16V 470u	-	10V 2200u	-	-	-	-	-	O	-	-	-	-	-	63V 0.01u	8P	9P	-	O	50V 0.01u	EIV820	TAT8058	TAT8006S	25V 2200u	6.3V 100u	6P	8P	O	-	O	10	-	-
06	8P	16V 470u	-	-	-	25V 470u	-	-	-	-	-	-	-	-	O	-	-	O	-	63V 0.01u	8P	9P	-	O	50V 0.01u	EIV820	TAT8058	TAT8006S	25V 2200u	6.3V 100u	6P	8P	O	-	O	10	-	-
07	8P	50V 100u	50V 100u	50V 100u	50V 100u	-	-	10V 1000u	-	-	-	-	-	-	-	O	-	-	-	25V 2200u	8P	9P	-	O	50V 0.01u	EIV820	TAT8058	TAT8006S	25V 2200u	6.3V 100u	6P	8P	O	-	O	10	-	-
08	-	50V 100u	50V 100u	50V 100u	50V 100u	-	-	-	-	-	-	-	-	-	-	O	-	-	-	25V 2200u	-	-	5P	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09	8P	25V 470u	-	25V 470u	-	-	-	10V 1000u	O	-	-	-	-	-	-	O	-	-	-	63V 0.01u	8P	9P	-	O	50V 0.01u	EIV820	TAT8058	TAT8006S	25V 2200u	6.3V 100u	6P	8P	O	-	-	-	DSN102	1W 16V 47u
11	8P	50V 100u	50V 100u	50V 100u	50V 100u	-	-	10V 1000u	-	O	-	-	-	-	-	O	-	-	-	63V 0.01u	8P	9P	-	O	50V 0.01u	EIV820	TAT8058	TAT8006S	25V 2200u	6.3V 100u	6P	8P	O	O	-	-	DSN102	1W 16V 47u

PW-A POWER SUPPLY UNIT X68-2210-00



X68-2210-00 B/6

X68-2210-00 C/6

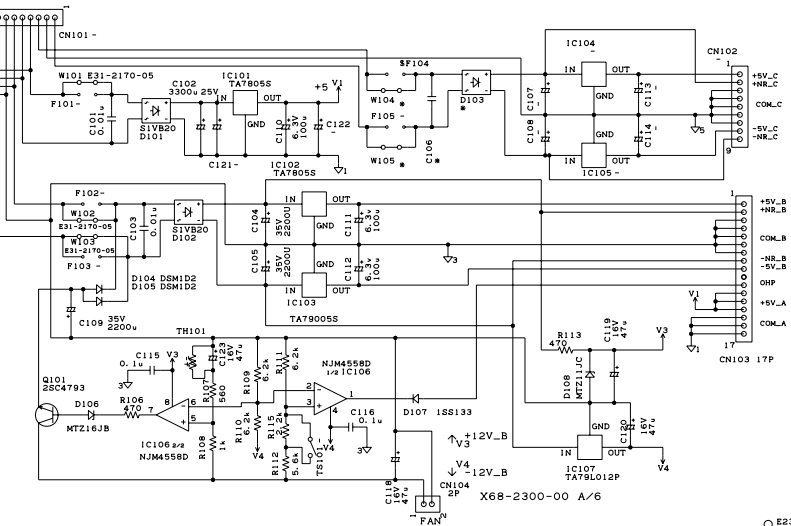
X68-2210-00 E/6

	W301 W302 W307 W308	W303 W304 W305 W306	W309 W310 W315 W316	W311 W312 W313 W314	C301	C302	C303	C304	R319	R320
00	-	O	O	-	50V 6800u	50V 6800u	25V 6800u	25V 3300u	20k	20k
01	-	O	-	O	50V 4700u	50V 4700u	25V 27000u	25V 27000u	20k	20k
02	-	O	-	-	50V 12000u	50V 12000u	-	-	-	-
03	-	O	-	-	80V 6800u	80V 6800u	-	-	-	-
04	O	-	-	-	50V 12000u	50V 12000u	-	-	-	-
05	O	-	-	O	80V 5600u	50V 6800u	25V 6800u	-	20k	-
06	O	-	-	O	25V 22000u	25V 22000u	80V 3300u	80V 3300u	20k	20k
07	-	O	-	O	63V 4700u	63V 4700u	25V 27000u	25V 27000u	20k	20k
08	O	-	-	-	80V 6800u	80V 6800u	-	-	-	-
09	-	O	-	O	50V 4700u	50V 4700u	25V 27000u	25V 27000u	20k	20k
11	-	O	-	O	63V 4700u	63V 4700u	25V 27000u	25V 27000u	20k	20k

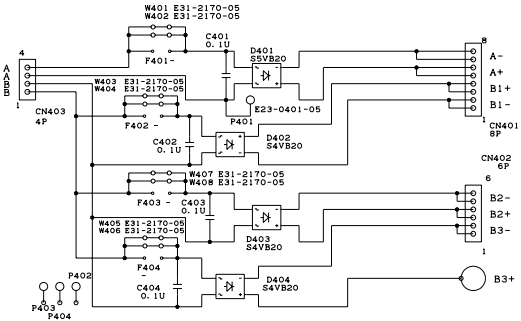
PW-A
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SCHEMATIC DIAGRAM

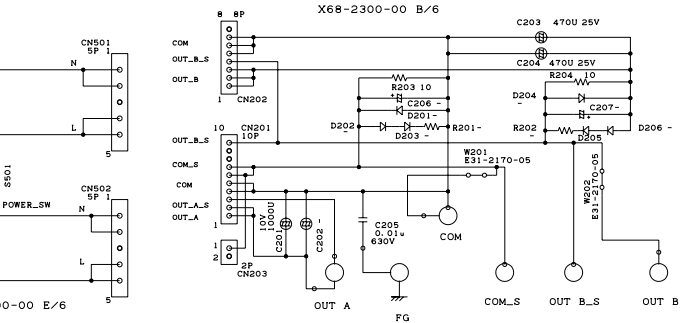
POWER SUPPLY UNIT
X68-2300-00
PW16-5ADP

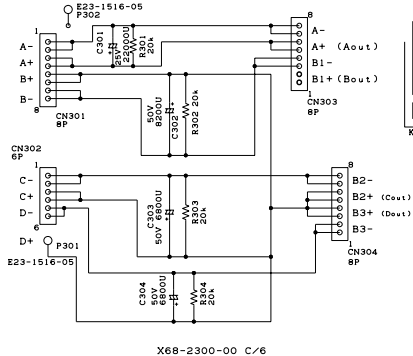


X68-2300-00 D/6



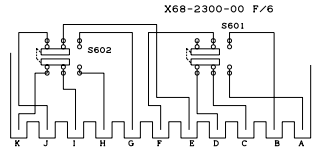
PW-A POWER SUPPLY UNIT
X68-2300-00





X68-2300-00 C/6

X68-2300-00 F/6



PW-A
KENWOOD

SCHEMATIC DIAGRAM

INTERFACE UNIT X72-1540-xx

	CH3	CH6	CH1, 2	CH4, 5	J1	J2	J3	J4	J5	X1	L1, 2	S1	D1	Q2, 3	Q1	PH1	IC14	IC18	IC4	IC10	IC13	IC11	IC12
0-00	E40-7853-05	-	E40-7854-05	-	E58-0613-05	-	-	E70-0660-05	E58-0638-05	L78-0147-05	L92-0226-05	S79-0633-05	-	-	-	PC357NT	BA033FP	-	ML60851D	MAY0914BFL	SM7511TB(HB)	SM7516DW	SM7516DW
0-01	-	E40-7853-05	-	E40-7854-05	-	E59-0607-05	E58-0606-05	-	-	-	-	-	1SS355	RN1401	RN1404	-	-	-	-	-	-	-	-
0-02	E40-7853-05	-	E40-7854-05	-	-	-	-	E70-0660-05	E58-0638-05	L78-0147-05	L92-0226-05	S79-0633-05	-	-	-	PC357NT	BA033FP	-	ML60851D	-	SM7511TB(HB)	-	-

	R37	R35, 36	R30, 31	R29	R28	R24, 25, 26, 27	R11	R39, 39, 41	R8	R20, 21, 22, 23	R32, 34, 42	R33	C14	C15, 22, 23	C25, 26, 27, 32	C35	C24, 29, 33, 34
0-00	RS2-0670-05	RS1/8S8251J 1.25W 15Ω	RS1/8S8252J 2W 2.2K	RS1/8S8561J 1/8W 560	RS1/8S8152J 1/8W 1.5K	RS1/8S8472J 1/8W 4.7K	RS1/8S8103J 1/8W 10K	RS1/8S8223J 1/8W 22K	RS1/8S8103J 1/8W 10K	RS1/8S8153J 1/8W 15K	RS1/8S8153J 1/8W 15K	RS1/8S8392J 1/8W 3.9K	OCT3GL1H102 50V 1000P	C0TR2F1E104Z 25V 0.1U	C0TR2F1E104Z 25V 0.1U	C0TR2F1E104Z 25V 0.1U	C0G/1H1R0 50V 1.0P
0-01	RS2-0670-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C0TR2F1E104Z 25V 0.1U	C0G/1H1R0 50V 1.0P
0-02	-	RS1/8S8251J 1.25W 15Ω	RS1/8S8252J 2W 2.2K	RS1/8S8561J 1/8W 560	RS1/8S8152J 1/8W 1.5K	RS1/8S8472J 1/8W 4.7K	-	RS1/8S8223J 1/8W 22K	-	RS1/8S8153J 1/8W 15K	RS1/8S8153J 1/8W 15K	RS1/8S8392J 1/8W 3.9K	-	-	C0TR2F1E104Z 25V 0.1U	C0G/1H1R0 50V 1.0P	C0G/1H1R0 50V 1.0P

	R51	R52	R53
0-00	RS2-0670-05 0	-	-
0-01	-	RS2-0670-05 0	-
0-02	-	-	RS2-0670-05 0

IC15:TC74HC04AF
IC16:TC74HC08AF
IC17:TC74HC32AF

00 00 R51= 0-00
00 00 R52= 0-01
00 00 R53= 0-02

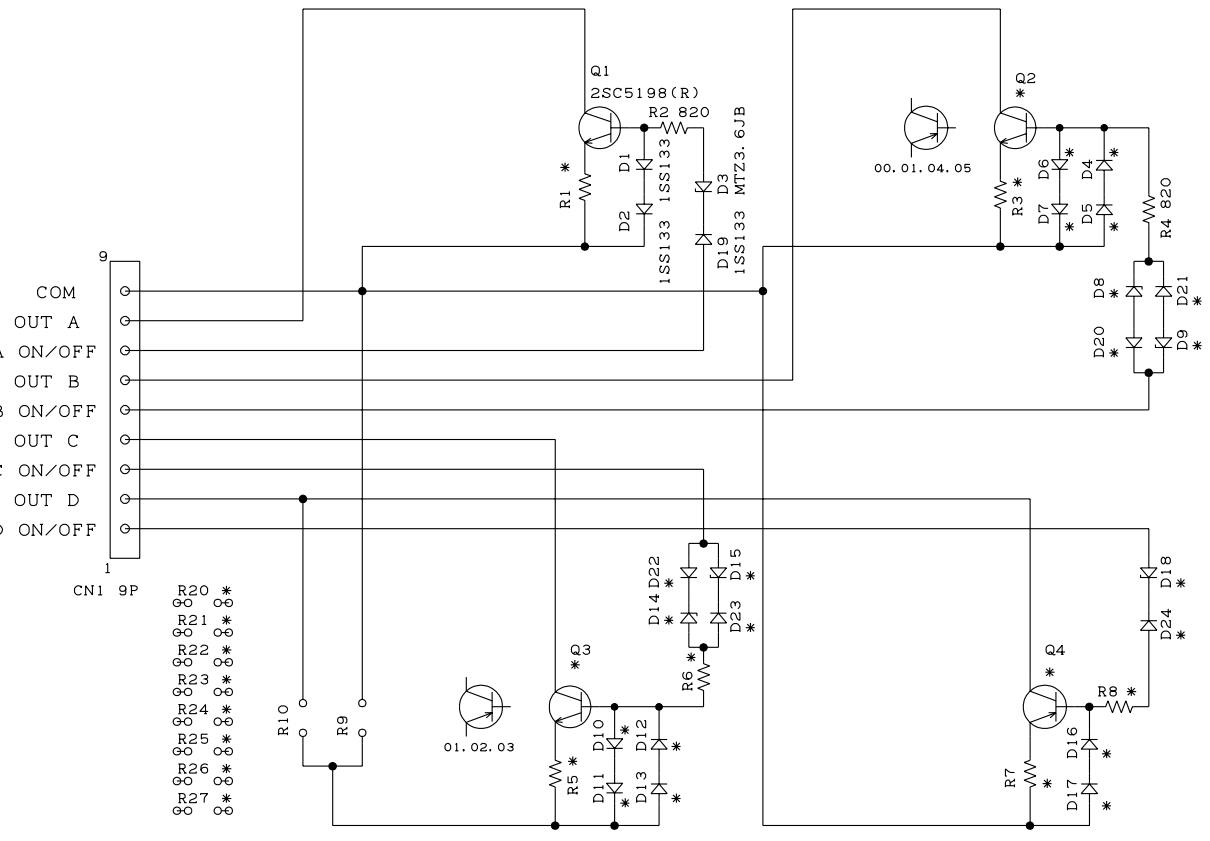
The rated voltage of a capacitor without specification is 25V

0-00 GU
0-01 RS
0-02 USB

DESIGNED	DRAWN	CHECKED	APPROVED	PARTS NAME

PW-A

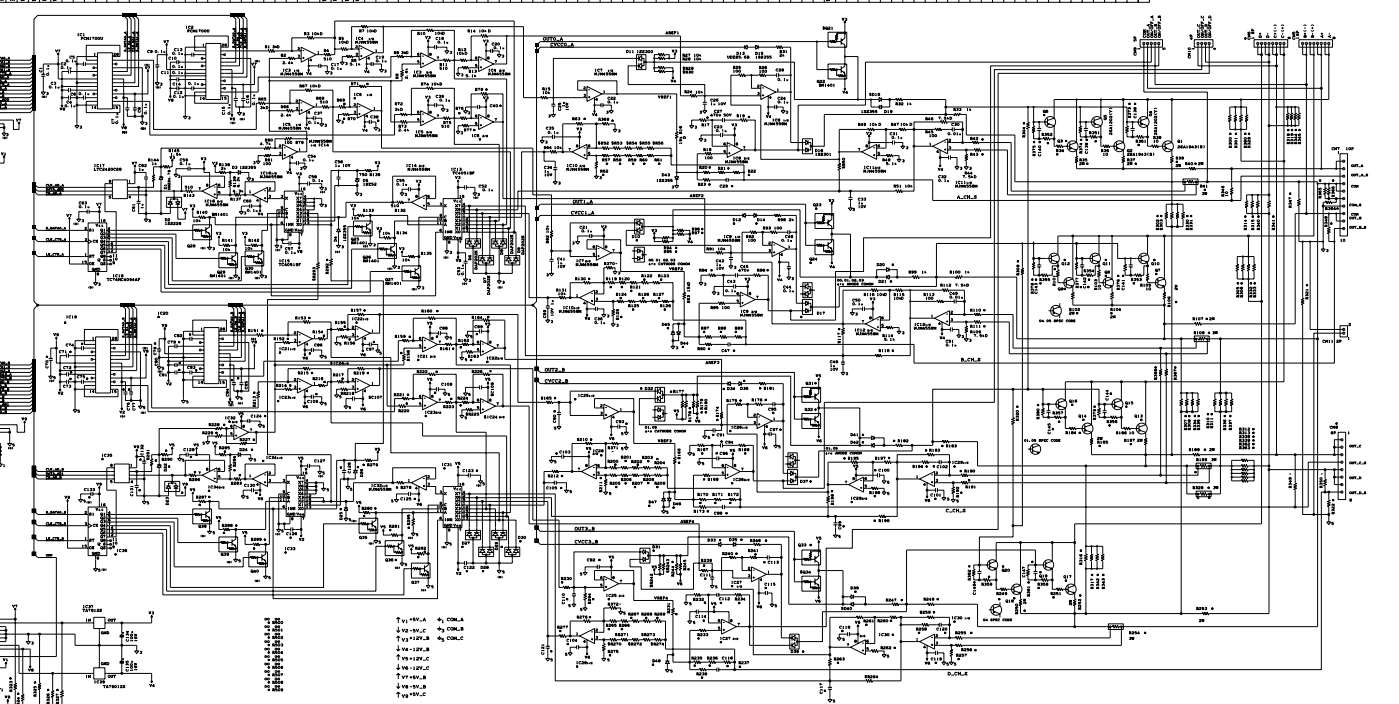
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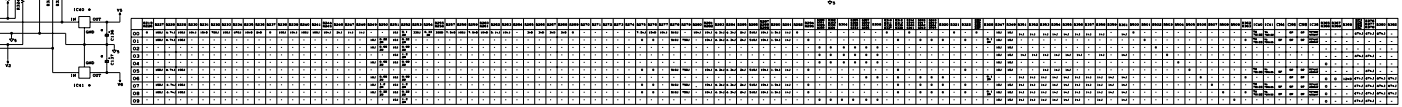


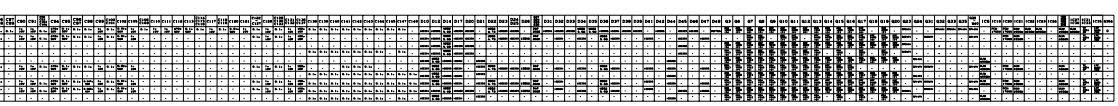
改装	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D20	D21	D22	D23	D24	Q2	Q3	Q4
0-00	–	–	1SS133	1SS133	MTZ3.6JB	–	1SS133	1SS133	–	–	MTZ3.6JB	–	1SS133	1SS133	MTZ3.6JB	1SS133	–	1SS133	–	1SS133	2SA1941(R)	2SC5198(R)	2SA1941(R)
0-01	–	–	1SS133	1SS133	MTZ3.6JB	–	–	–	1SS133	1SS133	–	MTZ3.6JB	–	–	–	1SS133	–	–	1SS133	–	2SA1941(R)	2SA1941(R)	2SA1941(R)
0-02	1SS133	1SS133	–	–	–	MTZ3.6JB	–	–	1SS133	1SS133	–	MTZ3.6JB	–	–	–	–	1SS133	–	1SS133	–	2SC5198(R)	2SA1941(R)	2SA1941(R)
0-03	1SS133	1SS133	–	–	–	MTZ3.6JB	–	–	1SS133	1SS133	–	MTZ3.6JB	–	–	–	–	1SS133	–	1SS133	–	2SC5198(R)	2SA1941(R)	2SA1941(R)
0-04	–	–	1SS133	1SS133	MTZ3.6JB	–	–	–	–	–	–	–	–	–	–	1SS133	–	–	–	–	2SA1941(R)	–	–
0-05	–	–	1SS133	1SS133	MTZ3.6JB	–	–	–	–	–	–	–	–	–	–	1SS133	–	–	–	–	2SA1941(R)	–	–
0-06	1SS133	1SS133	–	–	–	MTZ3.6JB	–	–	–	–	–	–	–	–	–	–	1SS133	–	–	–	2SC5198(R)	–	–
0-07	1SS133	1SS133	–	–	–	MTZ3.6JB	–	–	–	–	–	–	–	–	–	–	1SS133	–	–	–	2SC5198(R)	–	–

SCHEMATIC DIAGRAM

X73-2320-xx







PWA SERIES AMP UNIT

X73-2320-00	PW18-1.8AQ	X73-2320-06	PW16-5ADF
X73-2320-01	PW18-1.3AT.ATS	X73-2320-07	PW8-3ATP
X73-2320-02	PW18-3AD	X73-2320-08	PW26-1AT.ATS
X73-2320-03	PW36-1.5AD	X73-2320-09	PW36-1.5ADP
X73-2320-04	PW18-3ADP		
X73-2320-05	PW18-2ATP		

PW-A

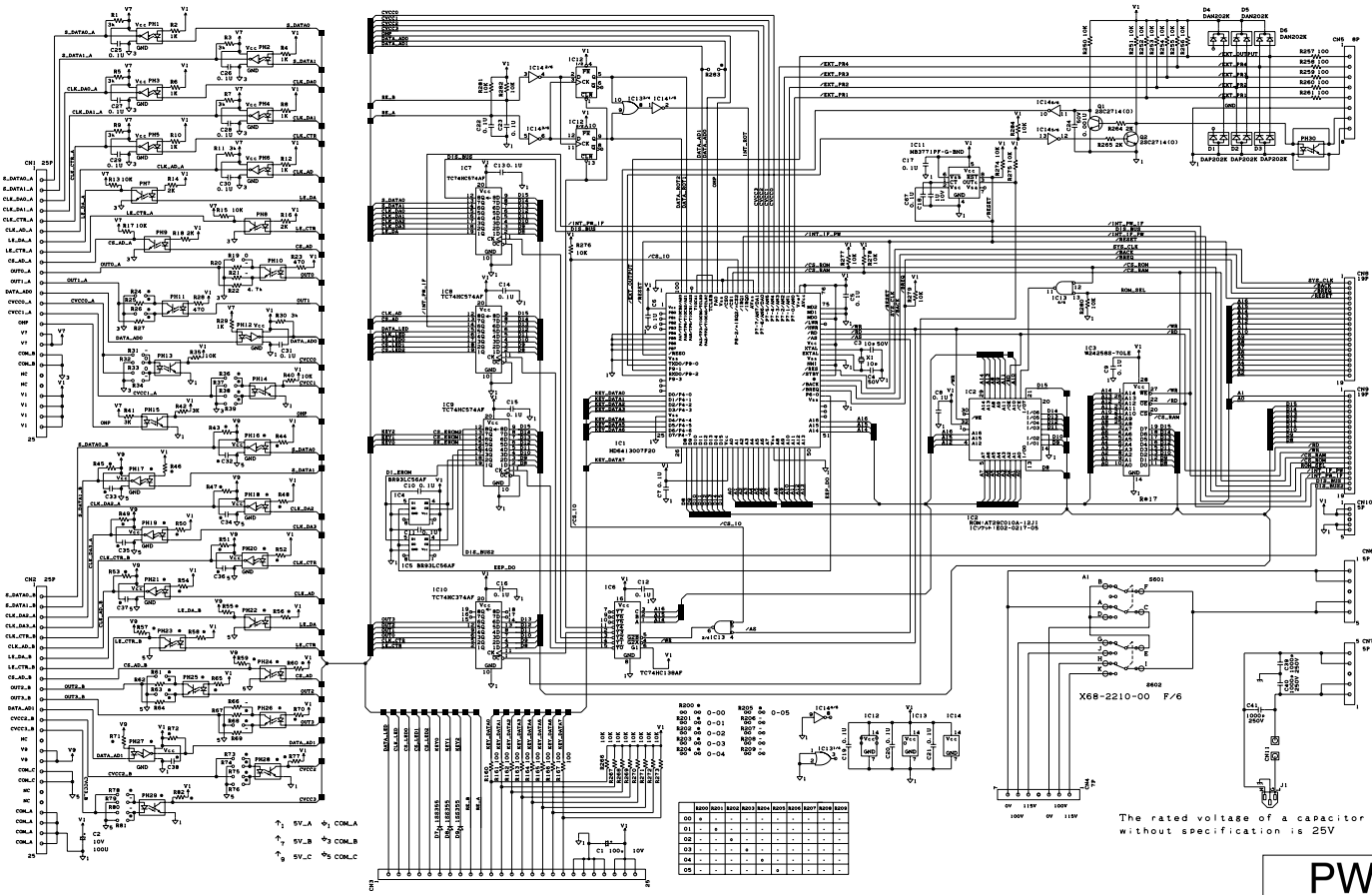
KENWOOD

SCHEMATIC DIAGRAM

CPU UNIT X77-2380-xx

PW-A SERIES

0-00 PW18-1 BAQ
0-01 PW18-1 3AT
0-02 PW18-3AD
0-03 PW36-1 SAD
0-04 PW18-3ADP
0-05 PW18-2ATP



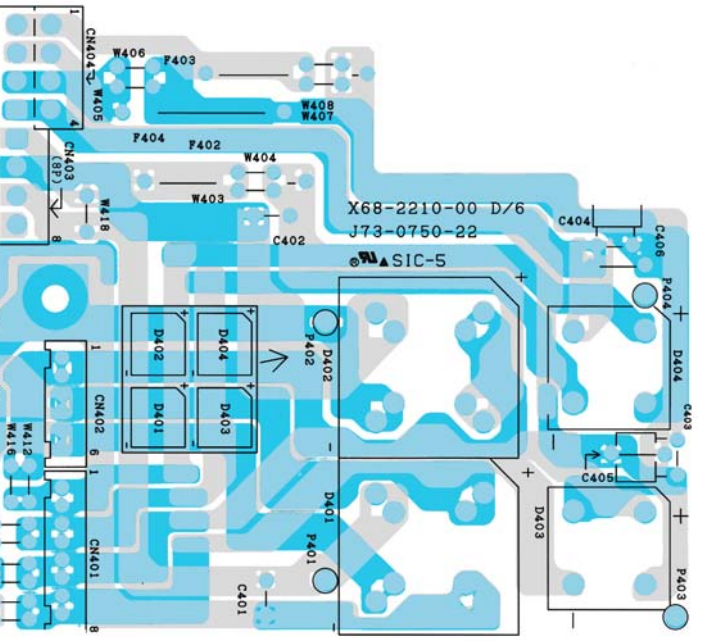
PW-A

KENWOOD

OARD (Component side view)

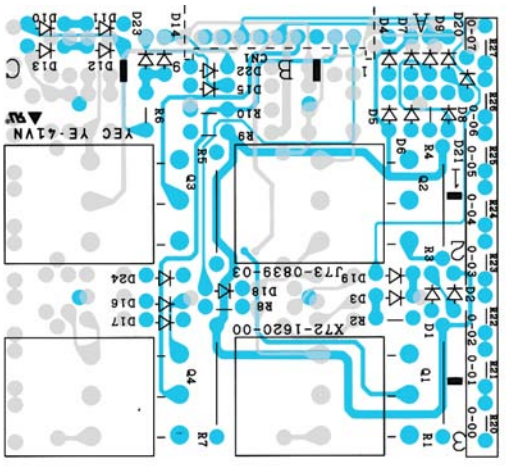
ER SUPPLY UNIT (X68-2210-xx)

side view (D/6)



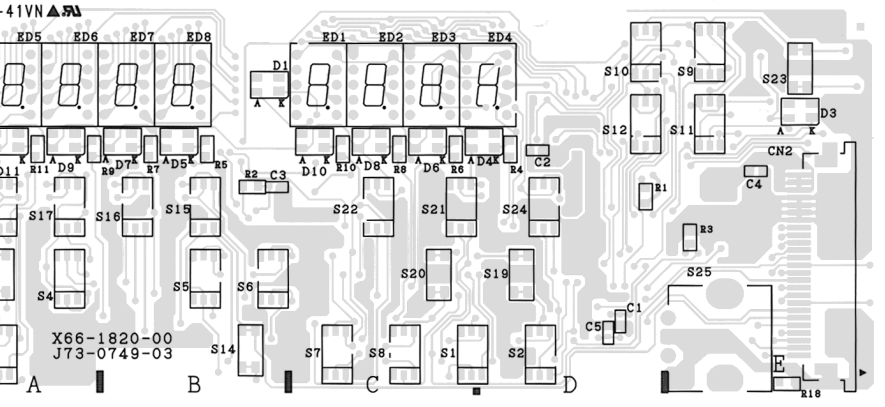
INPUT UNIT (X72-1620-xx)

Parts side view

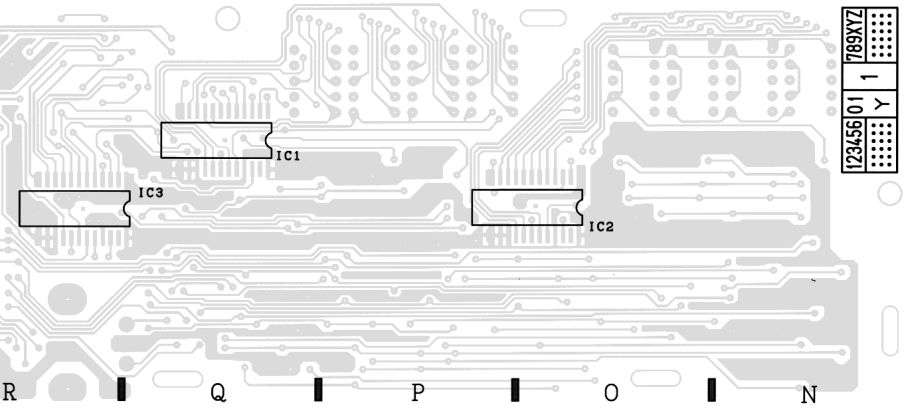


L UNIT (X66-1820-xx)

side view



n side view

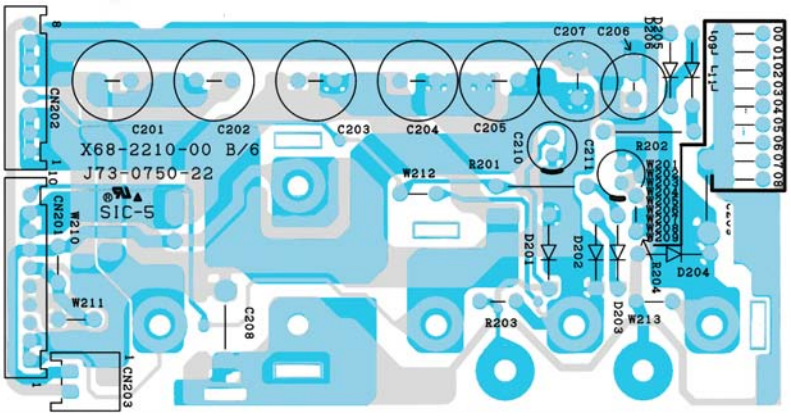


Refer to the schematic diagram for the value of resistors and capacitors.

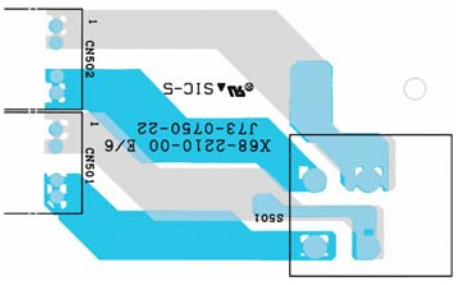
PC BOARD (Component side view)

POWER SUPPLY UNIT (X68-2210-xx)

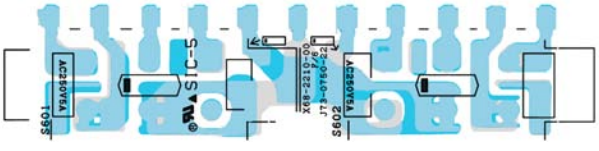
Parts side view (B/6)



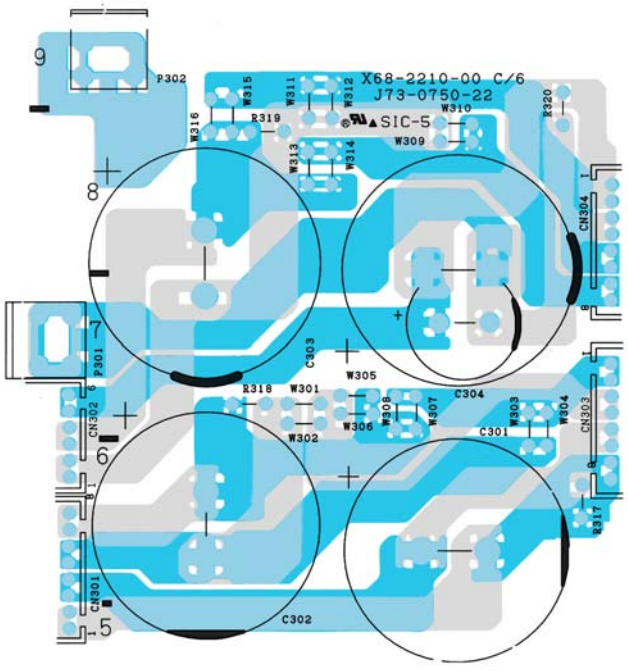
Parts side view (E/6)



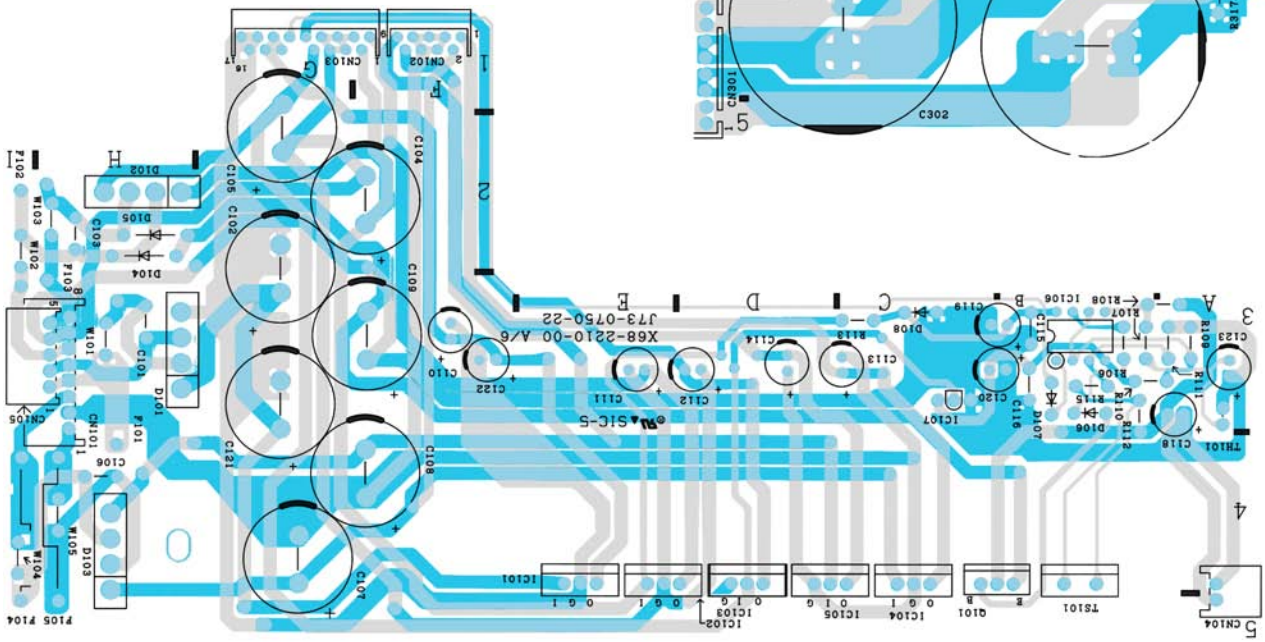
Parts side(Pattern side view) (F/6)



Parts side view (C/6)



Parts side(Pattern side view) (A/6)

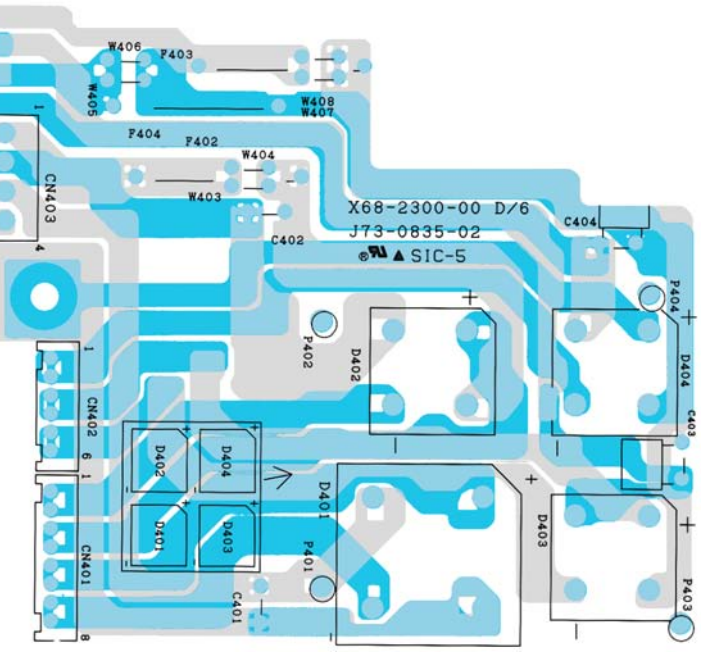


Refer to the schematic diagram for the value of resistors and capacitors.

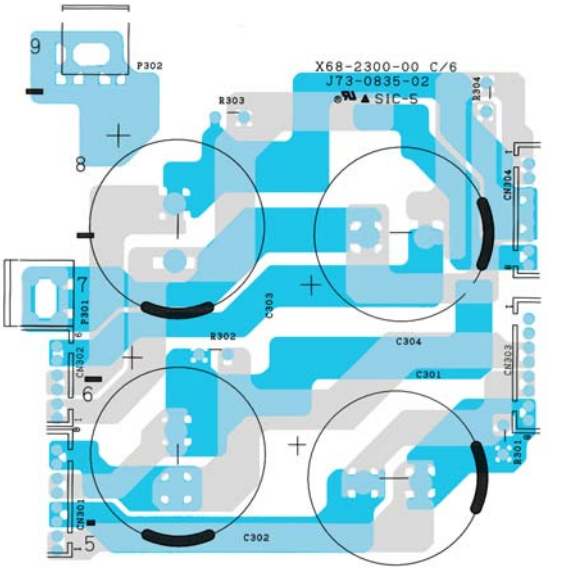
OARD (Component side view)

ER SUPPLY UNIT (X68-2300-xx)

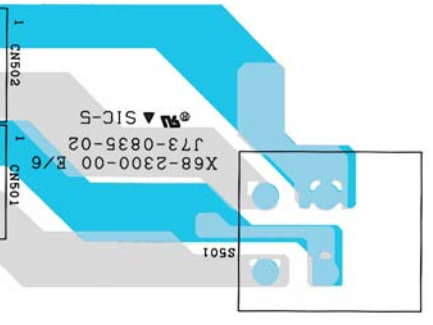
side view (D/6)



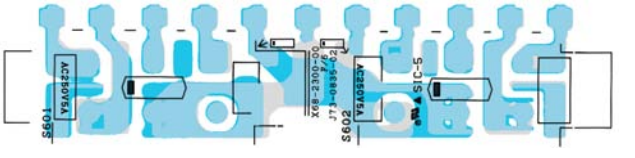
Parts side view (C/6)



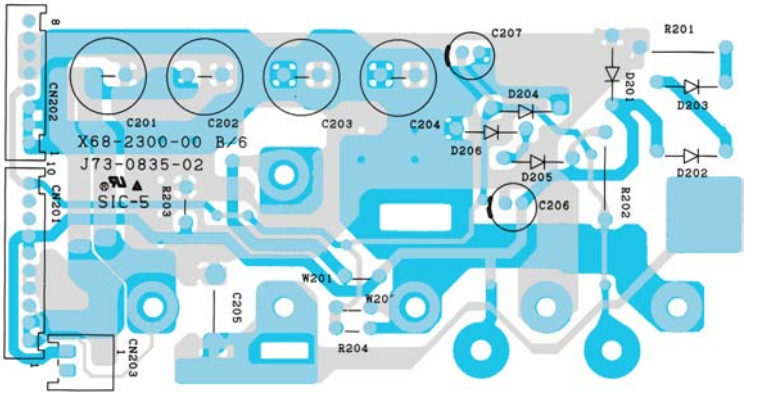
side view (E/6)



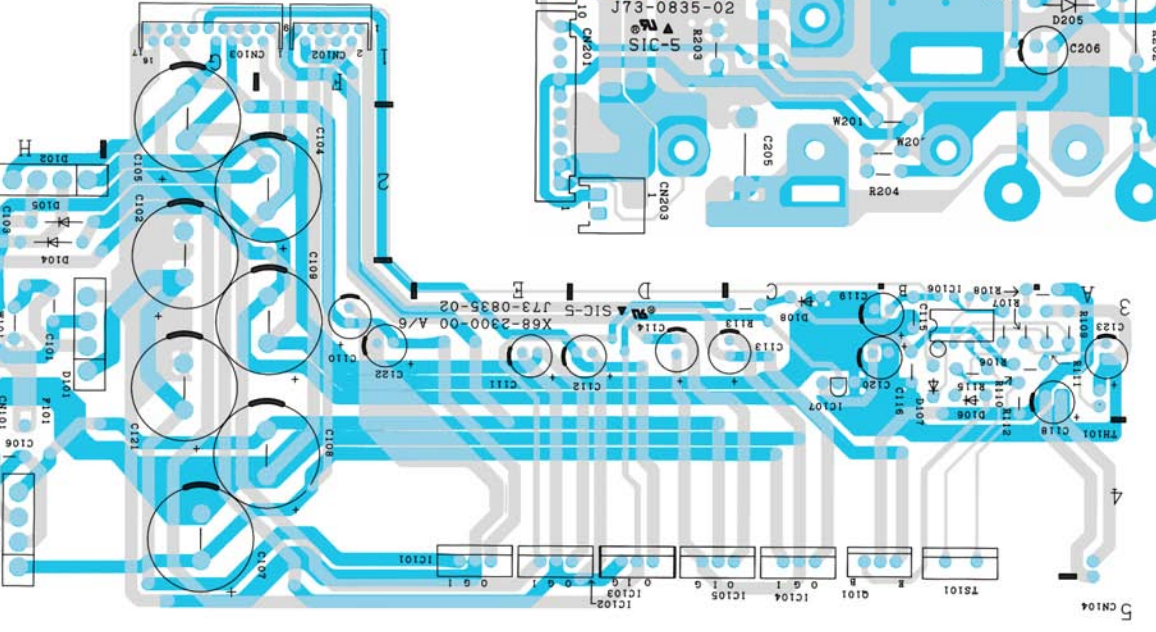
Parts side view (Pattern side view) (F/6)



Parts side view (B/6)



side(Pattern side view) (A/6)

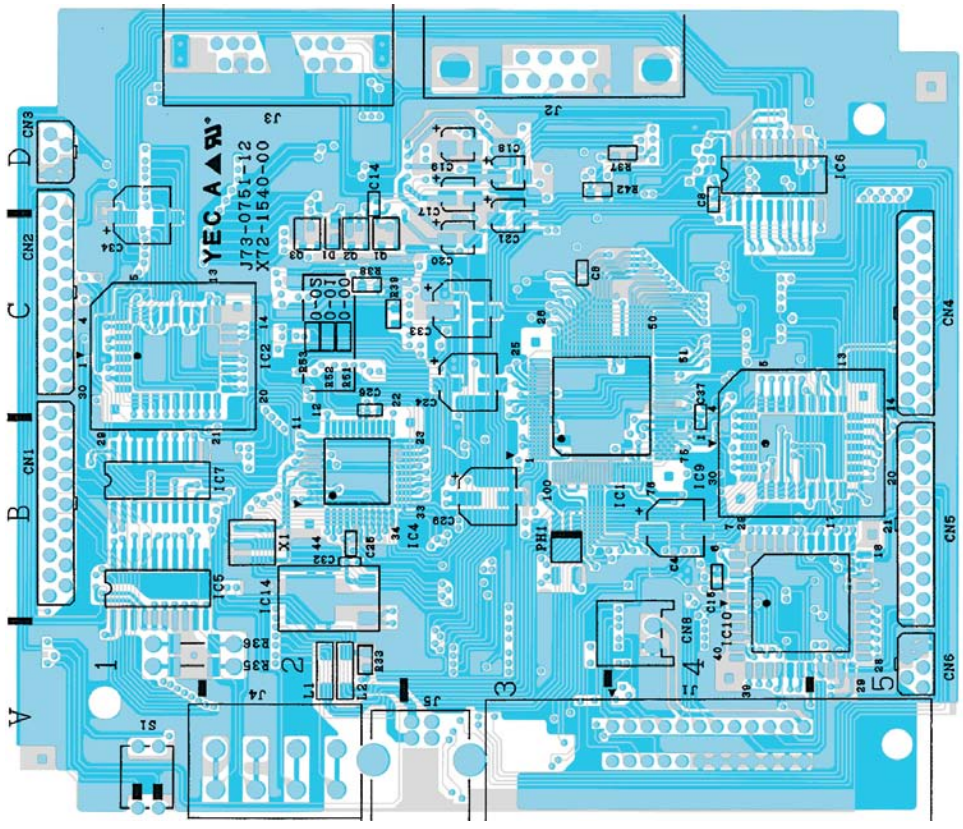


Refer to the schematic diagram for the value of resistors and capacitors.

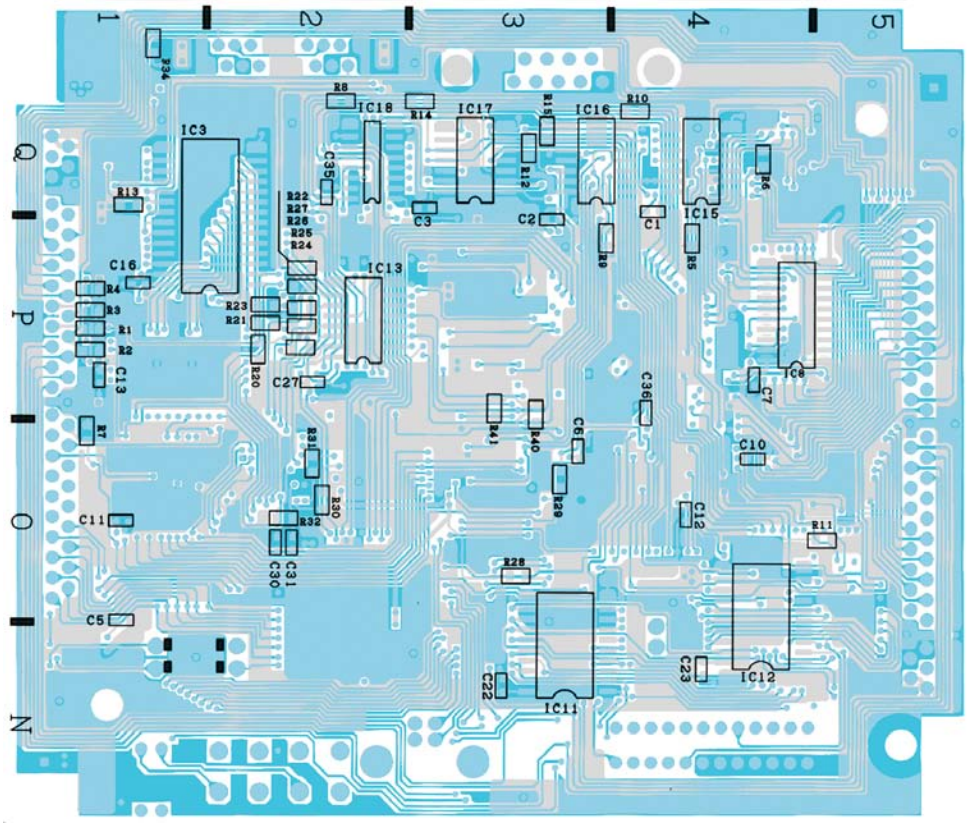
PC BOARD (Component side view)

INTERFACE UNIT (X72-1540-xx)

Parts side(Pattern side view)



Pattern side(Parts side view)

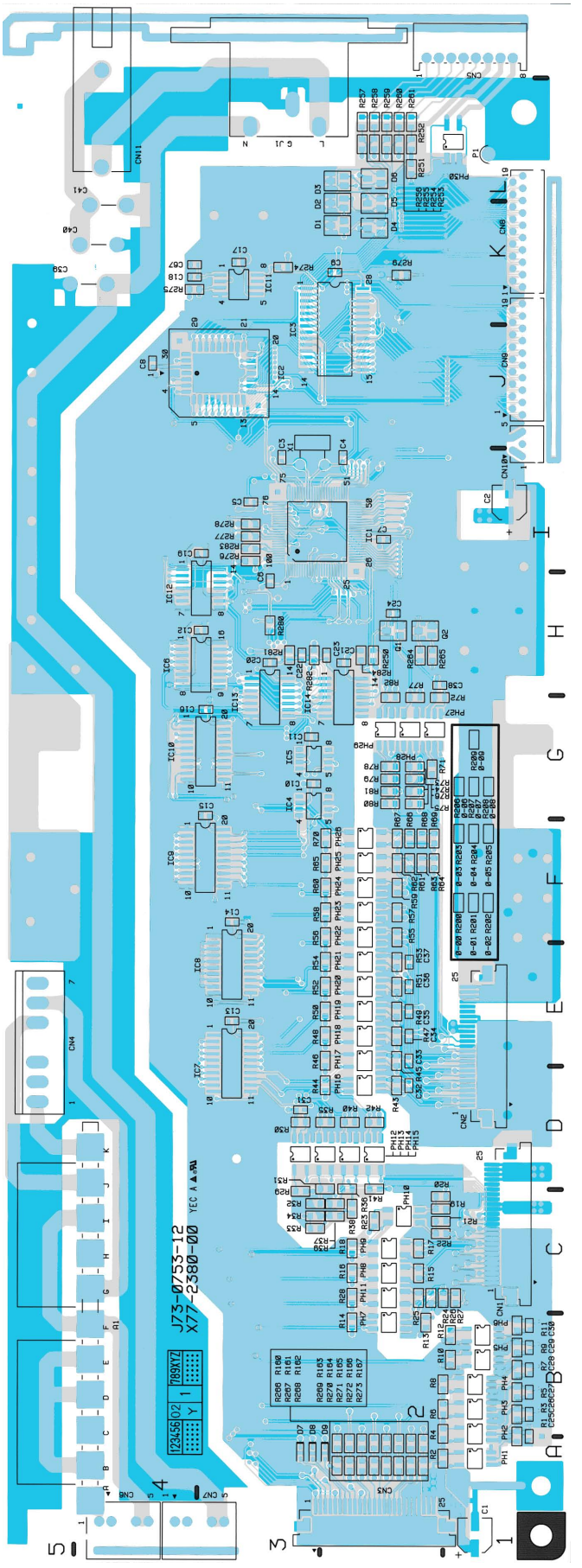


Refer to the schematic diagram for the value of resistors and capacitors.

OARD (Component side view)

UNIT (X77-2380-xx)

ts side view

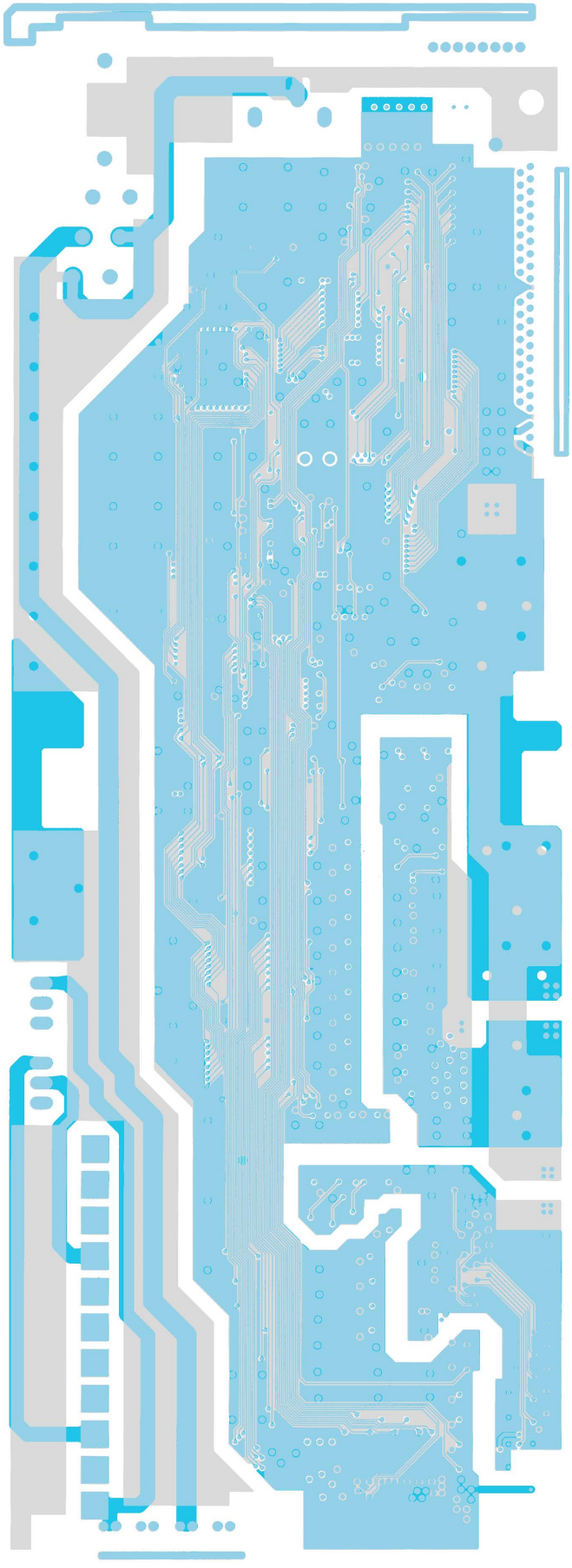


Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

CPU UNIT (X77-2380-xx)

Pattern side
(Parts side view)



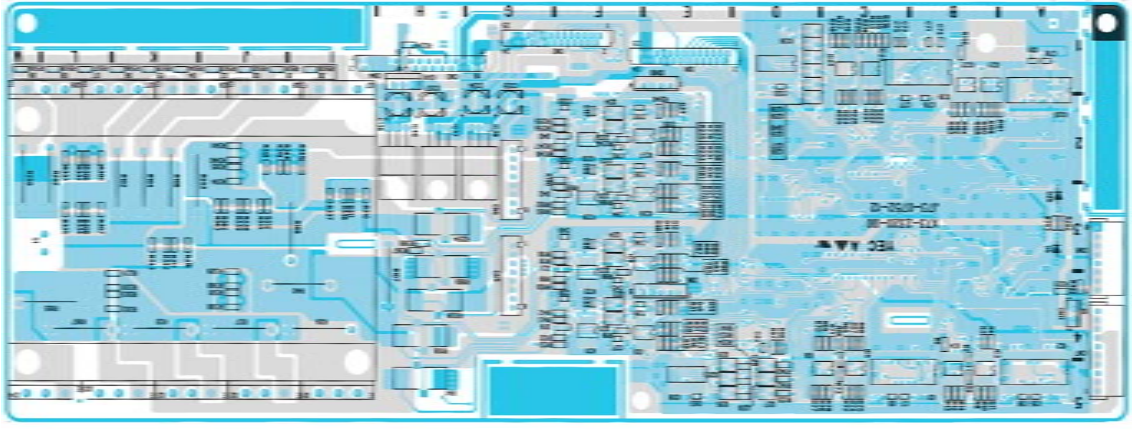
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

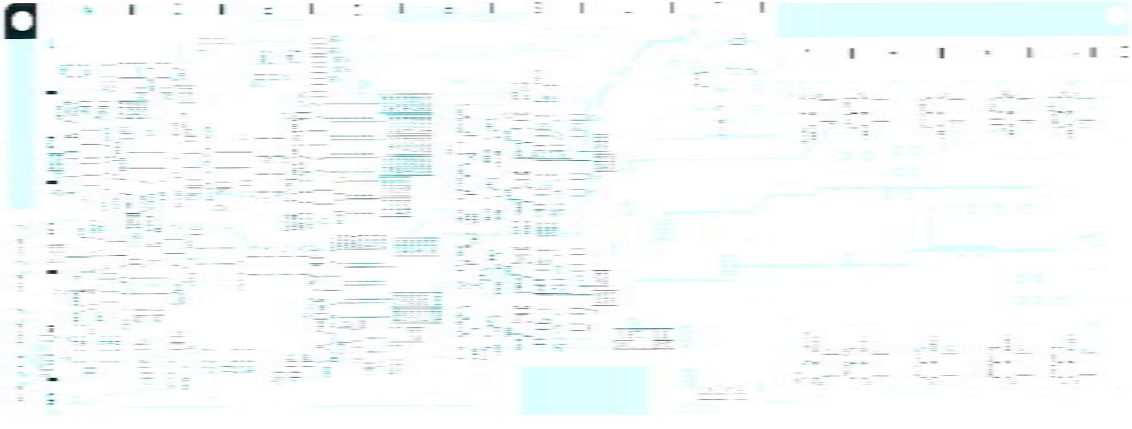
AMP UNIT (X73-2320-xx)

Parts side

Parts side view



Pattern side



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

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