

# 1. SPECIFICATIONS

Strumplate & Melody Keyboard Voice	Four Full Octaves
Strumplate Range	100 GM Instrument Voices
Chord Buttons	36 Soft Touch Buttos, 84 Chord Combinations : Major, Minor 7 <sup>th</sup> , Major 7 <sup>th</sup> , Minor 7 <sup>th</sup> , Augmented and Diminished
Rhythms	10 Professionally produced Rhythm Styles an additional 30 available
Variable Controls	Master Volume, Strumplate Volume, Strumplate Sustain, Rhythm Volume, Rhythm Tempo, Bass Volume, Chord Volume, Chord Plus Volume, Reverb Control, Chorus Depth Control, Vibrato Depth Control, Pitch Bend Wheel, Transpose, Tuning, Octave Shift
Button Controls	Power, Demo, Strumplate Voice Select, Rhythm Style Select, Rhythm Fill, Rhythm Intro/End, Start/Stop
Song / Style / Cartridge	Q Card Play/Pause, Q Card Search Up/Down, Stop
Effects	100 GM Instrument Voices
Other Functions	Rhythm Fill, Rhythm Intro/End, Pitch Bend Wheel, MIDI IN & MIDI OUT, Transpose, Tuning, Octave Shift
Tune	+/- 50 Cents
Display	Two Digit LCD, Two LED Light Bars, 13 LED's
Jacks	AC Power In, 1/4" Line Out/Headphone, MIDI IN, MIDI OUT
Power Requirements	12 Volts DC, 8 'C' cell batteries
Dimensions	21 1/4" L * 11 3/4" W * 2 1/8" H
Weight	3.25 Lbs

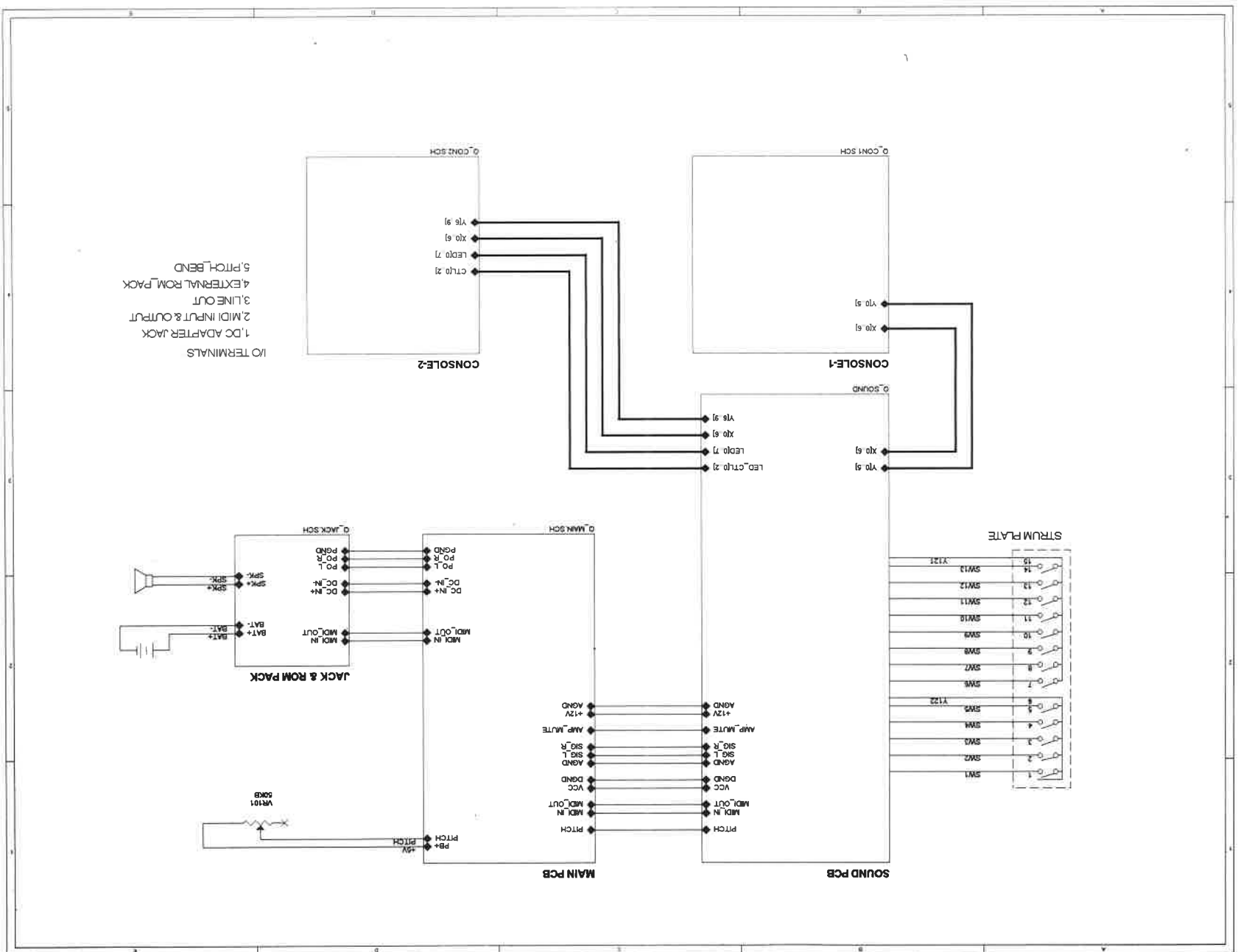
# 2. TROUBLE SHOOTING

PROBLEM	CHECK POINT
1.System does not work (No display)	← Check power supply source(New Battery? Or proper ac adopter and firmly plugged in?) ↑ Check CN504 connection. → Press the power switch, measure the voltage between the lead C208(which is lay electric capacitor) of Main p.c.board(between dc +9 ~ + 14V ? ) ↓ Measure the voltage Q601 80C51 MPU #40pin and #20pin ground. (DC 5.0V) ○ Check the connection all. (CN605: LCD display, CN604:LED display and button control)
2. Function key	- check the connection CN604(#29 pin flat ribbon wire) - Clock 24Mhz at #19pin Q601 80C51 - Signal output from Q604 74HC154 #1pin to #14pin - Signal toggle at Q612,74HC541 #1pin, #19pin
3. Chord key	- check the connection CN603(#15 pin flat ribbon wire)
4. Pitch bend	- check the connection CN607 - Signal input #2 pin of Q602, 555 timer for trigger - Signal output #3pin of Q602, 555 timer for count

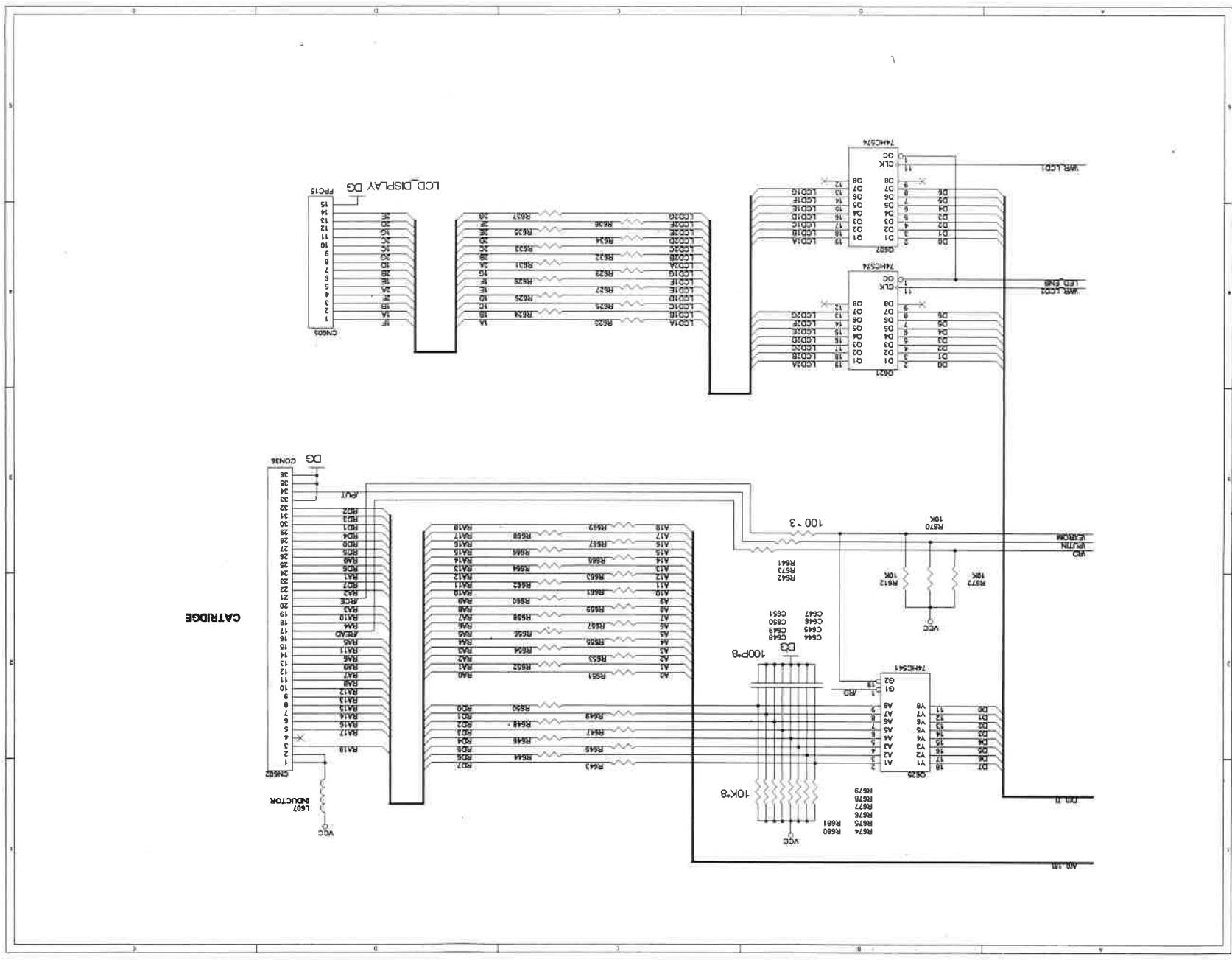
# 3. PCB FUNCTIONS

PCB NAME		FUNCTION
PEKZ13	SOUND	CPU, Reset, console LED control, LCD display control, Pitch-bend control, Strumplate control, Sound generate and DAC output, Q Card Interface
PEKM10	MAIN	Power source control, convert, Power Amplifier and MIDI Input / Output driver
	CONSOLE	Console button, console LED, LED driver
	JACK	Headphone jack, MIDI jack and DC Input jack
PEKN14	CHORD KEY	Chord button matrix

## BLOCK DIAGRAM 2

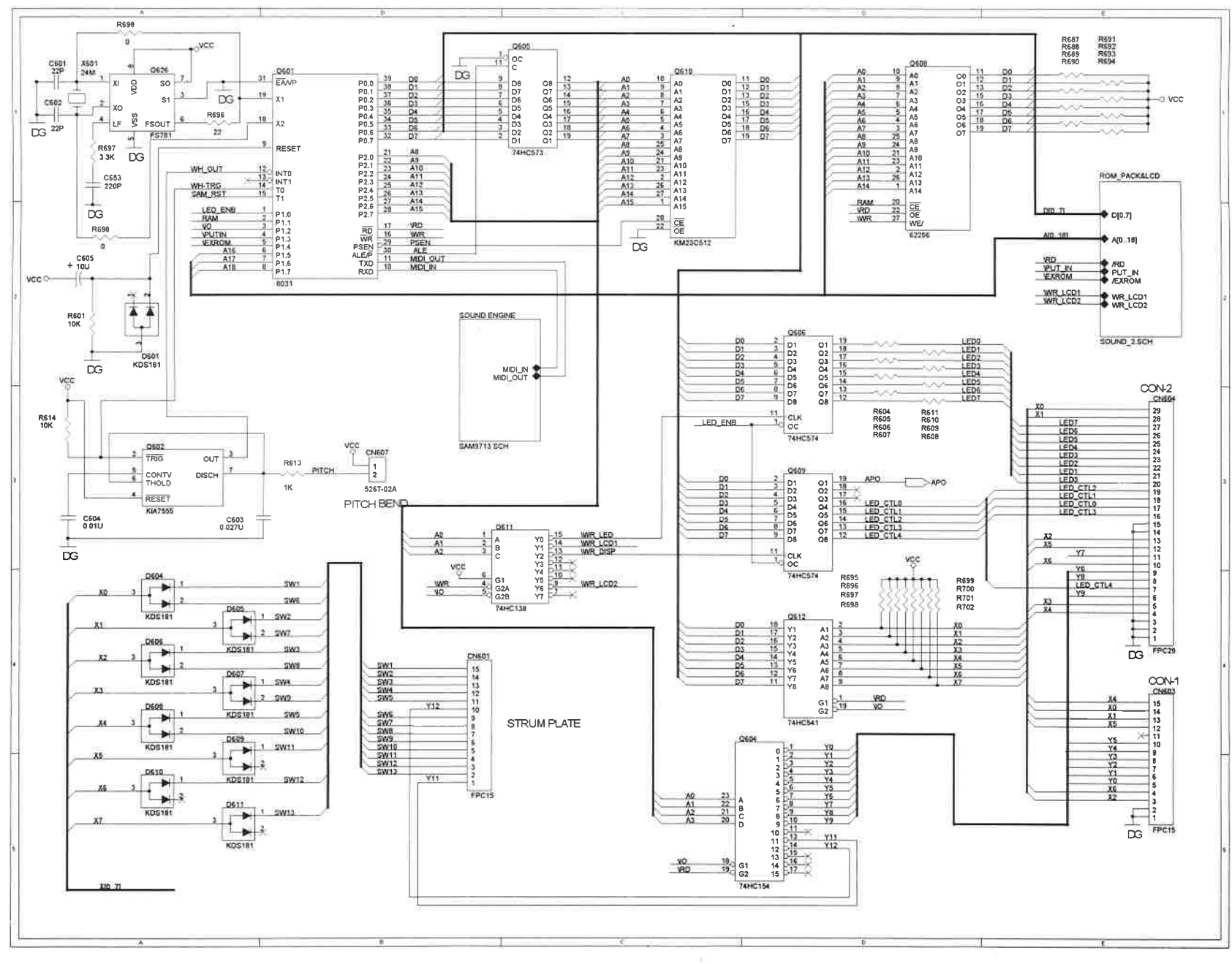


5-1. Digital Sound 2

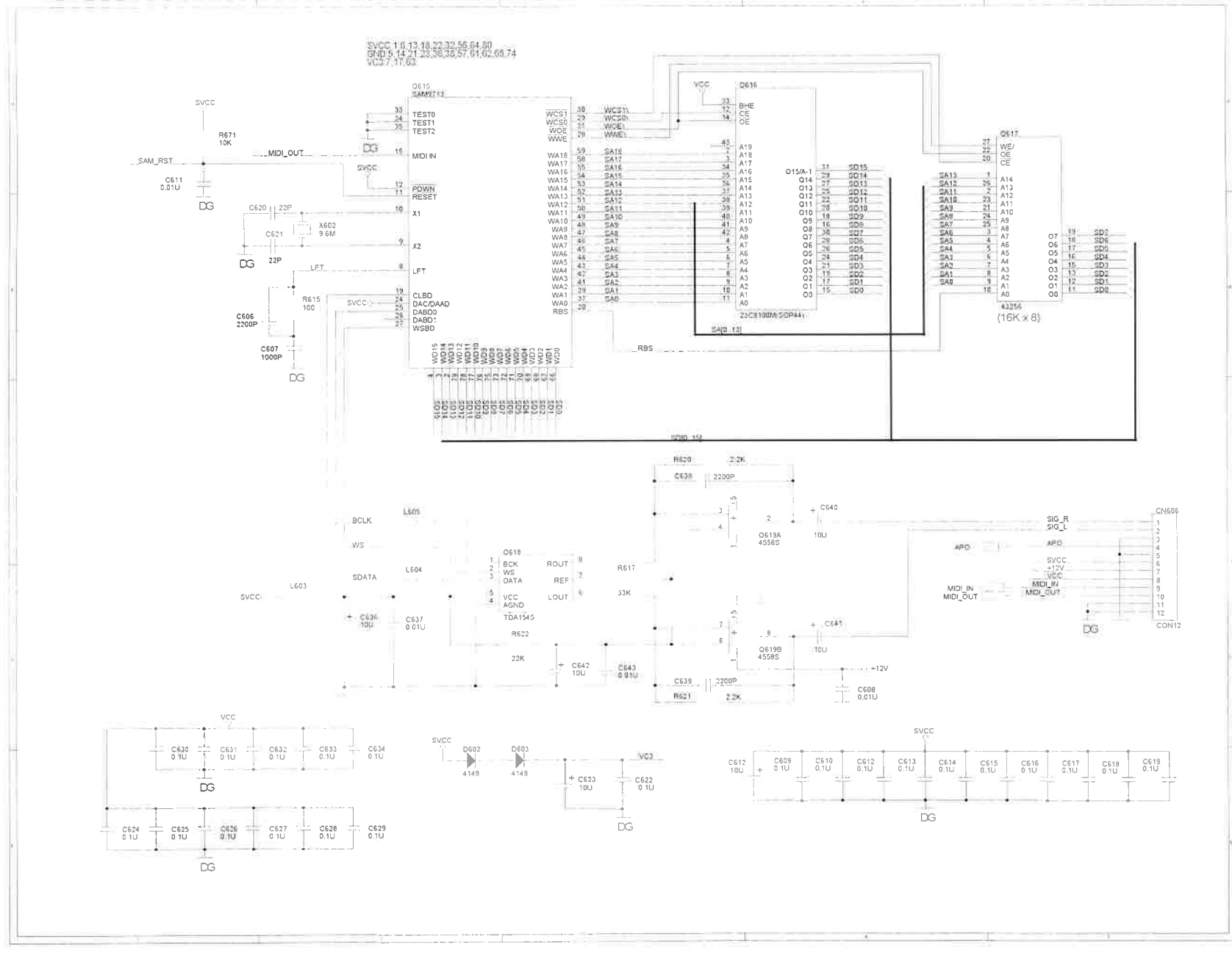


5. SCHEMATIC DIAGRAM

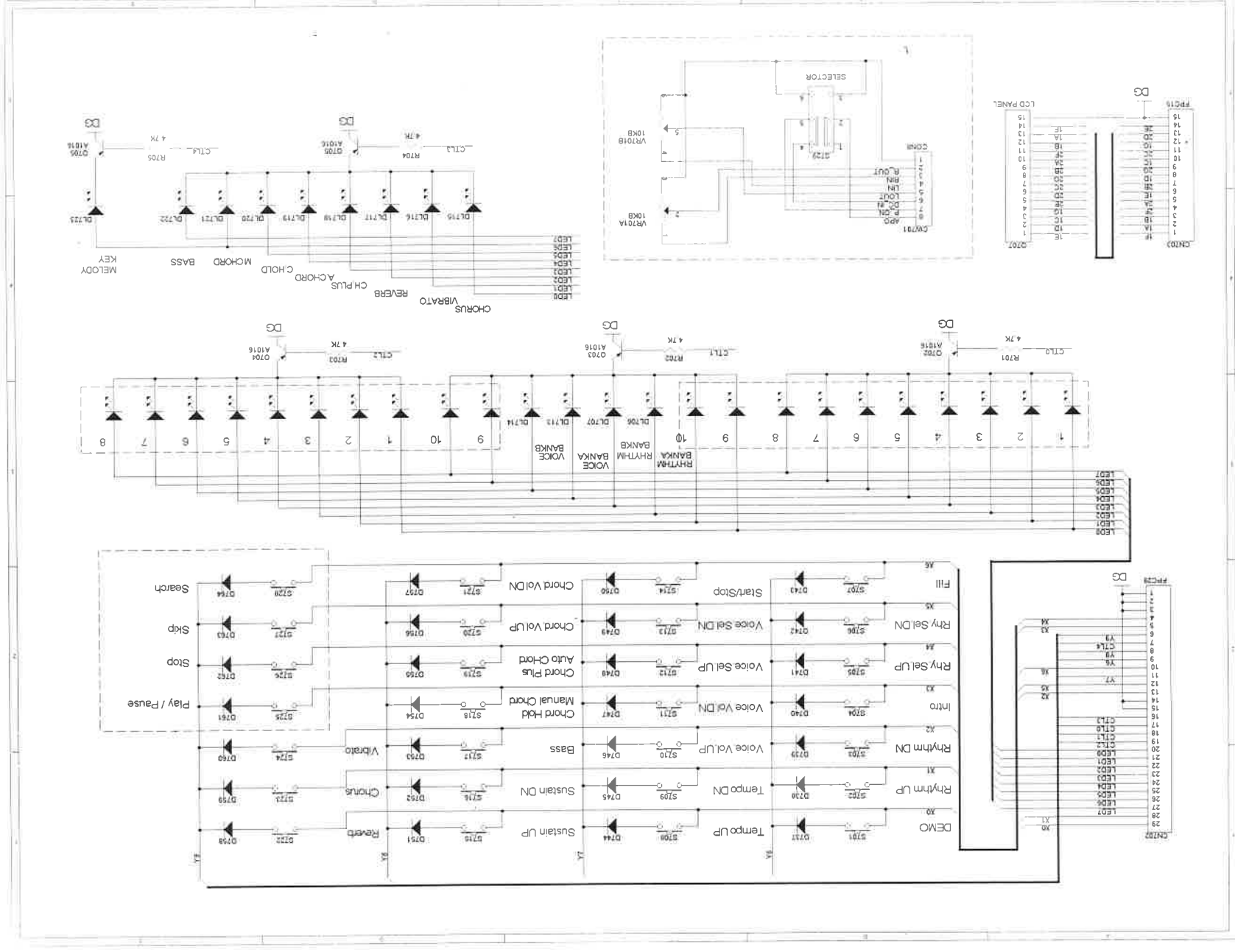
5-1. Digital Sound 1



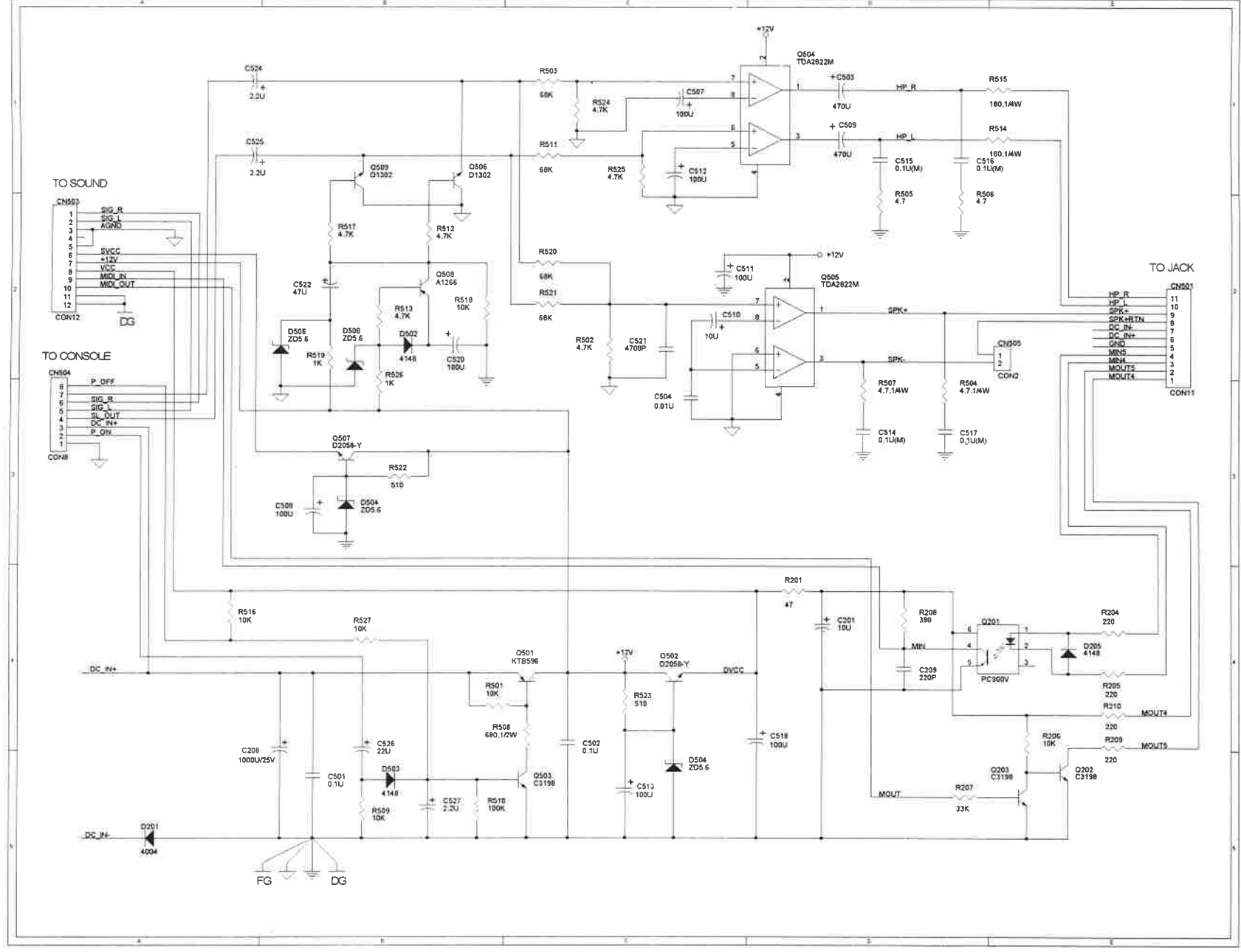
## 5-1. Digital Sound 3



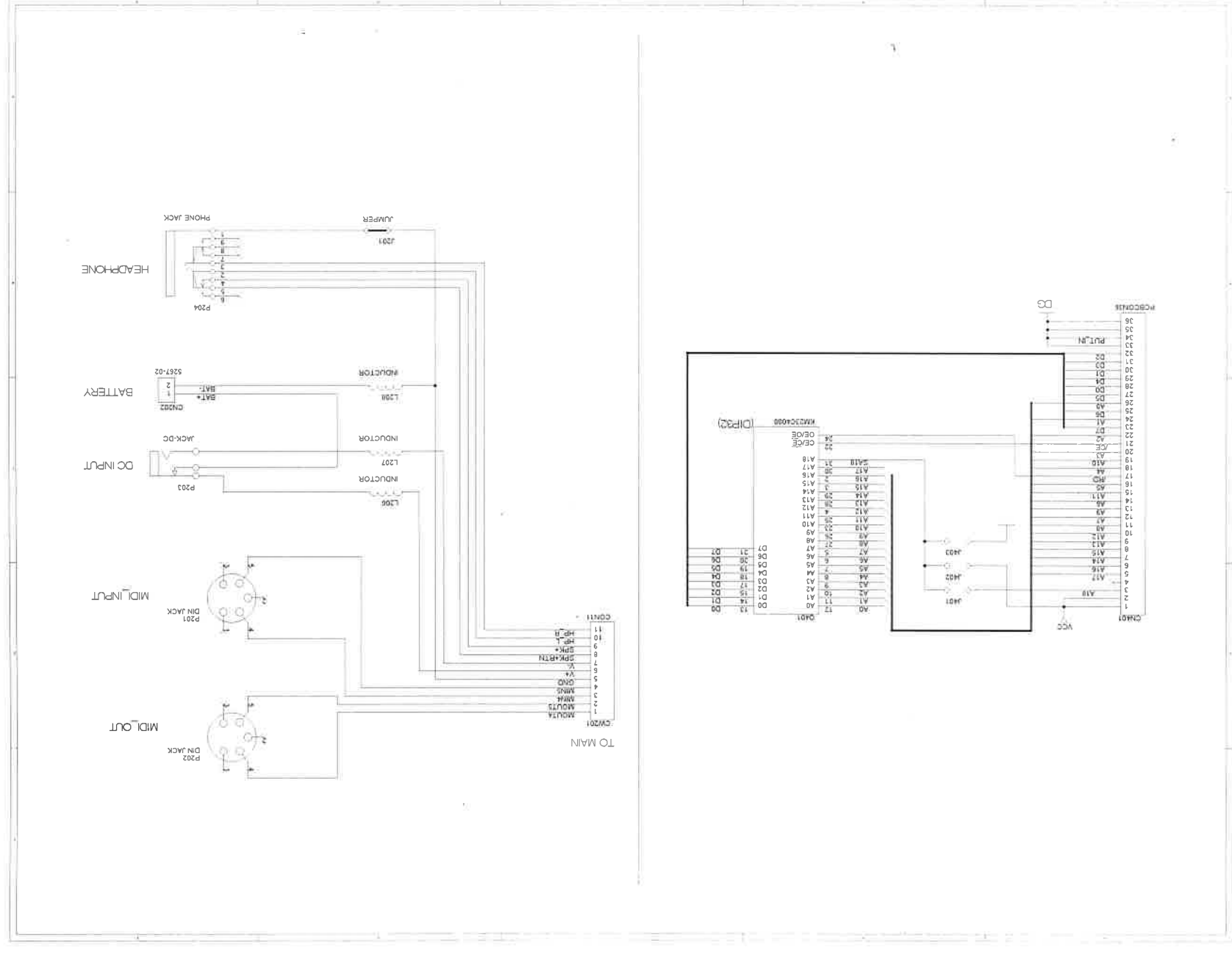
## 5-2. Console



### 5-3. Main Power



### 5-4. Cartridge / Jack

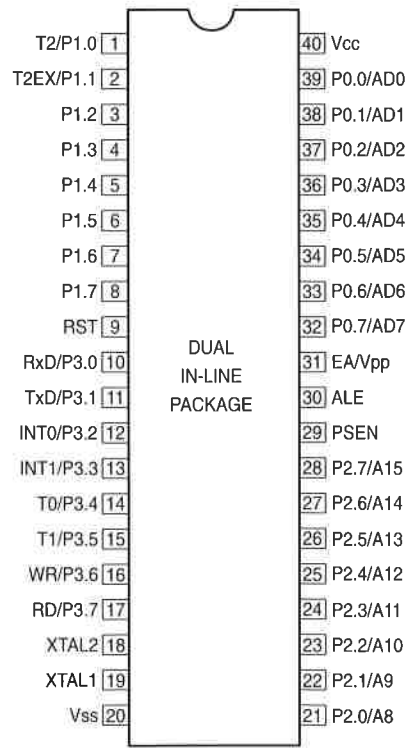




7. MAJOR LSI PIN FUCTION

1) M.P.U(80C51)

PIN NAME	PIN NO.	TYPE	FUNCTION
P1.0 - P1.7	1 - 8	I/O	Input Output Port
RESET	9	IN	RESET, input
RXD (P3.0)	10	IN	Serial Input
TXD (P3.1)	11	OUT	Serial Outpu
INT0 (P3.2)	12	I/O	Interrupt 0
INT1 (P3.3)	13	I/O	Interrupt 1
T0 (P3.4)	14	I/O	Timer Input 0
T1 (P3.5)	15	I/O	Timer Input 1
/WR (P3.6)	16	OUT	Write output
/RD (P3.7)	17	OUT	Read output
X1, X2	18 - 19	-	Crystal input
DGND	20	PWR	GND
P2.0 - P2.7	21 - 28	I/O	Input Output Port
PSEN	29	OUT	Program Store Enable
ALE	30	OUT	Address Latch Enable
/EA	31	IN	Enable program memo
P0.0 - P0.7	32 - 39	I/O	Input Output Port
VCC	40	PWR	



SU01063

2) Sound LSI(SAM9713)

PIN NAME	PIN NO.	TYPE	FUNCTION
GND	5, 14, 21, 23, 36, 38, 57, 61, 62, 65, 74	PWR	DIGITAL GND
VCC	1, 6, 13, 18, 22, 32, 56, 64, 80	PWR	POWER SUPPLY, 3.3V to 5.5V
VC3	7, 17, 63	PWER	CORE POWER SUPPLY, 3V to 4.5V
MIDI IN	15	IN	Serial MIDI IN
WA0-WA18	37, 39, 41-5, 58, 59	OUT	External ROM/RAM address for up to 512 K words(8Mbits) of memory. ROM memory holds firmware and PCM data. RAM memory holds working variables and effect delay lines.
WD0-WA15	66-73, 75-79, 2-4	I/O	External ROM/RAM data. Holds read data from ROM or RAM when /WOE is low, write data to RAM when /WWE is low.
/WCS0	29	OUT	External ROM chip select, active low
/WCS1	30	OUT	External ROM chip select, active low
/WOE	31	OUT	External ROM/RAM output enable, active low
/WWE	28	OUT	External RAM write, active low
RBS	20	OUT	RAM byte select. Used as lower address from RAM when 8 bit wide RAM is connected.
CLBD	19	OUT	Digital audio bit clock
WSBD	27	OUT	Digital audio left/right select
DABD0	25	OUT	Digital audio main stereo output
DABD1	26	OUT	Auxiliary digital stereo output.
DAC/DADD	24	IN	DAC type
X1, X2	10, 9	-	9.6MHz crystal connection.
LFT	8	-	PLL external RC network
/RESET	11	IN	Reset Input, active low.
/PDWN	12	IN	Power down, active low. When power down is active, then all outputs pins will be floated.
TEST0-TEST2	33, 34, 35	IN	Test pins. Should be grounded
RUN	16	OUT	When high, indicates that the synthesizer is up and running



ELECTRICAL PARTS LIST (EQ03S01)

P / No.	ITEM No.	ITEM NAME	P / No.	ITEM No.	ITEM NAME
MAIN, EMI PEKM10 EQ03S01			J735	11183004	PLATING WIRE, 0.6MM
			J736	11183004	PLATING WIRE, 0.6MM
			J737	11183004	PLATING WIRE, 0.6MM
CONSOLE, EMI PEKM10-1 EQ03S01			J738	11183004	PLATING WIRE, 0.6MM
D737	11115246T	SILICON DIODE, 1SS133-72-T	R701	12368472T	CARBON RESISTOR, SB 1/6W 4.7K OHM J
D738	11115246T	SILICON DIODE, 1SS133-72-T	R702	12368472T	CARBON RESISTOR, SB 1/6W 4.7K OHM J
D739	11115246T	SILICON DIODE, 1SS133-72-T	R703	12368472T	CARBON RESISTOR, SB 1/6W 4.7K OHM J
D740	11115246T	SILICON DIODE, 1SS133-72-T	R704	12368472T	CARBON RESISTOR, SB 1/6W 4.7K OHM J
D741	11115246T	SILICON DIODE, 1SS133-72-T	R705	12368472T	CARBON RESISTOR, SB 1/6W 4.7K OHM J
D742	11115246T	SILICON DIODE, 1SS133-72-T	U111	11892879C	PCB, PEKM10 MAIN EQ03S01(163 * 247-1Y)
D743	11115246T	SILICON DIODE, 1SS133-72-T	Q701	11114049T	TR, KTA1015-Y (KTA1266-Y)
D744	11115246T	SILICON DIODE, 1SS133-72-T	Q702	11114049T	TR, KTA1015-Y (KTA1266-Y)
D745	11115246T	SILICON DIODE, 1SS133-72-T	Q703	11114049T	TR, KTA1015-Y (KTA1266-Y)
D746	11115246T	SILICON DIODE, 1SS133-72-T	Q704	11114049T	TR, KTA1015-Y (KTA1266-Y)
D747	11115246T	SILICON DIODE, 1SS133-72-T	Q708	11114049T	TR, KTA1015-Y (KTA1266-Y)
D748	11115246T	SILICON DIODE, 1SS133-72-T	DL706	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D749	11115246T	SILICON DIODE, 1SS133-72-T	DL707	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D750	11115246T	SILICON DIODE, 1SS133-72-T	DL713	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D751	11115246T	SILICON DIODE, 1SS133-72-T	DL714	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D752	11115246T	SILICON DIODE, 1SS133-72-T	DL715	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D753	11115246T	SILICON DIODE, 1SS133-72-T	DL716	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D754	11115246T	SILICON DIODE, 1SS133-72-T	DL717	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D755	11115246T	SILICON DIODE, 1SS133-72-T	DL718	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D756	11115246T	SILICON DIODE, 1SS133-72-T	DL719	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D757	11115246T	SILICON DIODE, 1SS133-72-T	DL720	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D758	11115246T	SILICON DIODE, 1SS133-72-T	DL721	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D759	11115246T	SILICON DIODE, 1SS133-72-T	DL722	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D760	11115246T	SILICON DIODE, 1SS133-72-T	DL723	11113180T	LED, SLR226 ϕ 2 DIFF. FAK-14.7MM
D761	11115246T	SILICON DIODE, 1SS133-72-T	S701	11145171T	TACT SWITCH, EVQ-21405R
D762	11115246T	SILICON DIODE, 1SS133-72-T	S702	11145171T	TACT SWITCH, EVQ-21405R
D763	11115246T	SILICON DIODE, 1SS133-72-T	S703	11145171T	TACT SWITCH, EVQ-21405R
D764	11115246T	SILICON DIODE, 1SS133-72-T	S704	11145171T	TACT SWITCH, EVQ-21405R
J701	11183004	PLATING WIRE, 0.6MM	S705	11145171T	TACT SWITCH, EVQ-21405R
J702	11183004	PLATING WIRE, 0.6MM	S706	11145171T	TACT SWITCH, EVQ-21405R
J703	11183004	PLATING WIRE, 0.6MM	S707	11145171T	TACT SWITCH, EVQ-21405R
J704	11183004	PLATING WIRE, 0.6MM	S708	11145171T	TACT SWITCH, EVQ-21405R
J705	11183004	PLATING WIRE, 0.6MM	S709	11145171T	TACT SWITCH, EVQ-21405R
J706	11183004	PLATING WIRE, 0.6MM	S710	11145171T	TACT SWITCH, EVQ-21405R
J707	11183004	PLATING WIRE, 0.6MM	S711	11145171T	TACT SWITCH, EVQ-21405R
J708	11183004	PLATING WIRE, 0.6MM	S712	11145171T	TACT SWITCH, EVQ-21405R
J709	11183004	PLATING WIRE, 0.6MM	S713	11145171T	TACT SWITCH, EVQ-21405R
J710	11183004	PLATING WIRE, 0.6MM	S714	11145171T	TACT SWITCH, EVQ-21405R
J711	11183004	PLATING WIRE, 0.6MM	S715	11145171T	TACT SWITCH, EVQ-21405R
J712	11183004	PLATING WIRE, 0.6MM	S716	11145171T	TACT SWITCH, EVQ-21405R
J713	11183004	PLATING WIRE, 0.6MM	S717	11145171T	TACT SWITCH, EVQ-21405R
J714	11183004	PLATING WIRE, 0.6MM	S718	11145171T	TACT SWITCH, EVQ-21405R
J715	11183004	PLATING WIRE, 0.6MM	S719	11145171T	TACT SWITCH, EVQ-21405R
J716	11183004	PLATING WIRE, 0.6MM	S720	11145171T	TACT SWITCH, EVQ-21405R
J717	11183004	PLATING WIRE, 0.6MM	S721	11145171T	TACT SWITCH, EVQ-21405R
J718	11183004	PLATING WIRE, 0.6MM	S722	11145171T	TACT SWITCH, EVQ-21405R
J719	11183004	PLATING WIRE, 0.6MM	S723	11145171T	TACT SWITCH, EVQ-21405R
J720	11183004	PLATING WIRE, 0.6MM	S724	11145171T	TACT SWITCH, EVQ-21405R
J721	11183004	PLATING WIRE, 0.6MM	S725	11145171T	TACT SWITCH, EVQ-21405R
J722	11183004	PLATING WIRE, 0.6MM	S726	11145171T	TACT SWITCH, EVQ-21405R
J723	11183004	PLATING WIRE, 0.6MM	S727	11145171T	TACT SWITCH, EVQ-21405R
J724	11183004	PLATING WIRE, 0.6MM	S728	11145171T	TACT SWITCH, EVQ-21405R
J725	11183004	PLATING WIRE, 0.6MM	CN702	11164697	CONNECTOR , FFC ELCO 8370-297 29PAN
J726	11183004	PLATING WIRE, 0.6MM	CN703	11164856	CONNECTOR, FFC ELCO 8370-157 ANGEL
J727	11183004	PLATING WIRE, 0.6MM	CW701	300824010D	HARNESS, 8P 100MM (5264-5395)
J728	11183004	PLATING WIRE, 0.6MM	Q705	11113179	LED, ARRAY DC-10EWA-8.0 KINGBRIGHT
J729	11183004	PLATING WIRE, 0.6MM	Q705A	11826570	KNOB, LED INDICATOR
J730	11183004	PLATING WIRE, 0.6MM	Q706	11113179	LED, ARRAY DC-10EWA-8.0 KINGBRIGHT
J731	11183004	PLATING WIRE, 0.6MM	Q707	11113181	LCD, KXN33570DAP EQ03S01
J732	11183004	PLATING WIRE, 0.6MM	Q707A	11858421	CUSHION, LCD QC-1
J733	11183004	PLATING WIRE, 0.6MM	S729	11145246	PUSH S/W, KPA-2201D SELF LOCK TYPE
J734	11183004	PLATING WIRE, 0.6MM	VR701	12060263	V/R, DUAL V122(M)H-02CO 15F B10K

ELECTRICAL PARTS LIST (EQ03S01)

P / No.	ITEM No.	ITEM NAME	P / No.	ITEM No.	ITEM NAME
MAIN, EMI PEKM10-2 EQ03S01			C501	12232104T	CERAMIC CAPACITOR, F 50V 0.1MF Z
D201	11115003T	SILICON DIODE, 1N4004	C502	12232104T	CERAMIC CAPACITOR, F 50V 0.1MF Z
D205	11115246T	SILICON DIODE, 1SS133-72-T	C503	12683471T	CHEMICON, 16V 470MF SHL (8 * 11.5)
D502	11115246T	SILICON DIODE, 1SS133-72-T	C504	12212103T	CERAMIC CAPACITOR, B 50V 0.01MF K
D503	11115246T	SILICON DIODE, 1SS133-72-T	C507	12795101T	CHEMICON, 25V 100MF 85C 6.3 * 11
D504	11115361T	ZD, MTZ5.6B VZ=5.45-5.73V 0.5W	C508	12795101T	CHEMICON, 25V 100MF 85C 6.3 * 11
D506	11115361T	ZD, MTZ5.6B VZ=5.45-5.73V 0.5W	C509	12683471T	CHEMICON, 16V 470MF SHL (8 * 11.5)
D507	11115361T	ZD, MTZ5.6B VZ=5.45-5.73V 0.5W	C510	12797100T	CHEMICON, 50V 10MF 85C 5 * 11
D508	11115361T	ZD, MTZ5.6B VZ=5.45-5.73V 0.5W	C511	12795101T	CHEMICON, 25V 100MF 85C 6.3 * 11
D509	11115376T	ZD, MTZ9.1B VZ=8.57-9.01V 0.5W	C512	12795101T	CHEMICON, 25V 100MF 85C 6.3 * 11
J501	11183004	PLATING WIRE, 0.6MM	C513	12795101T	CHEMICON, 25V 100MF 85C 6.3 * 11
J502	11183004	PLATING WIRE, 0.6MM	C514	12692104T	PLASTIC CAPACITOR, M 50V 0.1MF J
J503	11183004	PLATING WIRE, 0.6MM	C515	12692104T	PLASTIC CAPACITOR, M 50V 0.1MF J
J504	11183004	PLATING WIRE, 0.6MM	C516	12692104T	PLASTIC CAPACITOR, M 50V 0.1MF J
J505	11183004	PLATING WIRE, 0.6MM	C517	12692104T	PLASTIC CAPACITOR, M 50V 0.1MF J
J506	11183004	PLATING WIRE, 0.6MM	C518	12795101T	CHEMICON, 25V 100MF 85C 6.3 * 11
J507	11183004	PLATING WIRE, 0.6MM	C520	12795101T	CHEMICON, 25V 100MF 85C 6.3 * 11
J508	11183004	PLATING WIRE, 0.6MM	C521	12212472T	CERAMIC CAPACITOR, B 50V 4700PF K
J509	11183004	PLATING WIRE, 0.6MM	C522	12795470T	CHEMICON, 25V 47MF 85C 5 * 11
J510	11183004	PLATING WIRE, 0.6MM	C524	12797229T	CHEMICON, 50V 2.2MF 85C 5 * 11
J511	11183004	PLATING WIRE, 0.6MM	C525	12797229T	CHEMICON, 50V 2.2MF 85C 5 * 11
J512	11183004	PLATING WIRE, 0.6MM	C526	12797220T	CHEMICON, 50V 22MF 85C 5 * 11
J513	11183004	PLATING WIRE, 0.6MM	C527	12795101T	CHEMICON, 25V 100MF 85C 6.3 * 11
J514	11183004	PLATING WIRE, 0.6MM	Q202	11114056T	TR, KTC1815-Y (KTC3198-Y)
J515	11183004	PLATING WIRE, 0.6MM	Q203	11114056T	TR, KTC1815-Y (KTC3198-Y)
J516	11183004	PLATING WIRE, 0.6MM	Q503	11114056T	TR, KTC1815-Y (KTC3198-Y)
J517	11183004	PLATING WIRE, 0.6MM	Q506	11114474T	TR, KTD1302
R201	12368470T	CARBON RESISTOR, SB 1/6W 47 OHM J	Q508	11114049T	TR, KTA1015-Y (KTA1266-Y)
R204	12368221T	CARBON RESISTOR, SB 1/6W 220 OHM J	Q509	11114474T	TR, KTD1302
R205	12368221T	CARBON RESISTOR, SB 1/6W 220 OHM J	C208	12795102T	CHEMICON, 25V 1000MF 85C 13 * 20
R206	12368103T	CARBON RESISTOR, SB 1/6W 10K OHM J	CN501	11164218	PLUG, 11P 5267-11AX
R207	12368333T	CARBON RESISTOR, SB 1/6W 33K OHM J	CN504	11164127	PLUG, 8P 5267-08AX
R208	12368391T	CARBON RESISTOR, SB 1/6W 390 OHM J	CN505	11164121	PLUG, 2P 5267-02AX
R209	12368221T	CARBON RESISTOR, SB 1/6W 220 OHM J	CW501	301224005D	HARNESS, 12P 50MM
R210	12368221T	CARBON RESISTOR, SB 1/6W 220 OHM J	Q201	11119861	IC, PHOTO COUPLER PC900V
R501	12368103T	CARBON RESISTOR, SB 1/6W 10K OHM J	Q501	11114156	TR, KTB596-Y(KTB989-Y)
R502	12368472T	CARBON RESISTOR, SB 1/6W 4.7K OHM J	Q502	11114399	TR, POWER AMP KTD2058-Y
R503	12368683T	CARBON RESISTOR, SB 1/6W 68K OHM J	Q502A	11032362	SCREW, PBTB 2.6 * 8 SZN
R504	12368479T	CARBON RESISTOR, SB 1/6W 4.7 OHM J	Q504	11119665	IC,TDA2822 (PD16)AUDIO(1.7+1.7W)STM
R505	12368479T	CARBON RESISTOR, SB 1/6W 4.7 OHM J	Q505	11119665	IC,TDA2822 (PD16)AUDIO(1.7+1.7W)STM
R506	12368479T	CARBON RESISTOR, SB 1/6W 4.7 OHM J	Q507	11114399	TR, POWER AMP KTD2058-Y
R507	12368479T	CARBON RESISTOR, SB 1/6W 4.7 OHM J	R202	12368471T	CARBON RESISTOR, SB 1/6W 470 OHM J
R508	12321681T	OXIDE RESISTOR, B 1/2W 680 OHM J	R203	12368471T	CARBON RESISTOR, SB 1/6W 470 OHM J
R509	12368103T	CARBON RESISTOR, SB 1/6W 10K OHM J	JACK, EMI PEKM10-3 EQ03S01		
R510	12368104T	CARBON RESISTOR, SB 1/6W 100K OHM J	J201	11183004	PLATING WIRE, 0.6MM
R511	12368683T	CARBON RESISTOR, SB 1/6W 68K OHM J	L206	11103049T	BEAD CORE, BFD3550R2F
R512	12368472T	CARBON RESISTOR, SB 1/6W 4.7K OHM J	L207	11103049T	BEAD CORE, BFD3550R2F
R513	12368472T	CARBON RESISTOR, SB 1/6W 4.7K OHM J	L208	11103049T	BEAD CORE, BFD3550R2F
R514	12360331T	CARBON RESISTOR, SB 1/4W 330 OHM J	CN202	11164227	PLUG, 2P 5268-02A
R515	12360331T	CARBON RESISTOR, SB 1/4W 330 OHM J	CW201	301124020D	HARNESS, 11P L=200MM
R516	12368103T	CARBON RESISTOR, SB 1/6W 10K OHM J	P201	11116375	DIN SOCKET, TCS4650-01-4051
R517	12368472T	CARBON RESISTOR, SB 1/6W 4.7K OHM J	P202	11116375	DIN SOCKET, TCS4650-01-4051
R518	12368103T	CARBON RESISTOR, SB 1/6W 10K OHM J	P203	11164567	DC POWER JACK, SVX7694-01-330
R519	12368102T	CARBON RESISTOR, SB 1/6W 1K OHM J	P204	11163120	PHONE JACK, HTJ-064-04B, MOLD
R520	12368473T	CARBON RESISTOR, SB 1/6W 47K OHM J			
R521	12368473T	CARBON RESISTOR, SB 1/6W 47K OHM J			
R522	12368511T	CARBON RESISTOR, SB 1/6W 510 OHM J			
R523	12368511T	CARBON RESISTOR, SB 1/6W 510 OHM J			
R524	12368472T	CARBON RESISTOR, SB 1/6W 4.7K OHM J			
R525	12368472T	CARBON RESISTOR, SB 1/6W 4.7K OHM J			
R526	12368102T	CARBON RESISTOR, SB 1/6W 1K OHM J			
R527	12368103T	CARBON RESISTOR, SB 1/6W 10K OHM J			
R530	12368470T	CARBON RESISTOR, SB 1/6W 47 OHM J			
C201	12797100T	CHEMICON, 50V 10MF 85C 5 * 11			
C209	12212221T	CERAMIC CAPACITOR, B 50V 220PF K			



ELECTRICAL PARTS LIST (EQ03S01)

P / No.	ITEM No.	ITEM NAME	P / No.	ITEM No.	ITEM NAME
DIGITAL, EMI PEKZ13 EQ03S01			Q615	11118246	IC, SOUND ENGINE SAM9713 QFP80
			Q616	11118247	IC, SOUND ROM GMS970800-B SOP44
C601	12751220T	CHIP CERAMIC CAP, COG 50V 22PF J	Q617	11119891T	IC, SRAM IS61C256AH-12NS SOJ
C602	12751220T	CHIP CERAMIC CAP, COG 50V 22PF J	Q618	11119928T	IC, PHILIPS TDA1545AT(R) 1K/TP PAC
C603	12752273T	CHIP CERAMIC CAP, X7R 50V 0.027MF K	Q621	11119994T	IC, PHILIPS 74HC574D(SOP20)
C604	12752103T	CHIP CERAMIC CAP, X7R 50V 0.01MF K	Q621	11119923T	IC, NS MM74HC574WMX 1K/TP D F-F
C606	12752222T	CHIP CERAMIC CAP, X7R 50V 2200PF K	Q625	11119906	IC, TTL 74HC541D SOP20
C607	12752102T	CHIP CERAMIC CAP, X7R 50V 1000PF K	R601	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
C608	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R602	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
C609	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R603	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
C610	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R604	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C611	12752103T	CHIP CERAMIC CAP, X7R 50V 0.01MF K	R605	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C613	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R606	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C616	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R607	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C617	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R608	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C618	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R609	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C619	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R610	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C620	12751220T	CHIP CERAMIC CAP, COG 50V 22PF J	R611	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C621	12751220T	CHIP CERAMIC CAP, COG 50V 22PF J	R612	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
C622	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R613	12873102T	CHIP RES, 1/16W 1K OHM J(1608)
C624	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R614	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
C625	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R615	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C626	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R616	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
C627	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R617	12873333T	CHIP RES, 1/16W 33K OHM J(1608)
C628	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R618	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
C629	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R619	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
C630	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R620	12873222T	CHIP RES, 1/16W 2.2K OHM J(1608)
C631	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R621	12873222T	CHIP RES, 1/16W 2.2K OHM J(1608)
C632	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R622	12873223T	CHIP RES, 1/16W 22K OHM J(1608)
C633	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R623	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C634	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R624	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C637	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R625	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C638	12752222T	CHIP CERAMIC CAP, X7R 50V 2200PF K	R626	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C639	12752222T	CHIP CERAMIC CAP, X7R 50V 2200PF K	R627	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C643	12752104T	CHIP CERAMIC CAP, X7R 50V 0.1MF K	R628	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C644	12751101T	CHIP CERAMIC CAP, COG 50V 100PF J	R629	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C645	12751101T	CHIP CERAMIC CAP, COG 50V 100PF J	R630	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
C646	12751101T	CHIP CERAMIC CAP, COG 50V 100PF J	R631	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C647	12751101T	CHIP CERAMIC CAP, COG 50V 100PF J	R632	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C648	12751101T	CHIP CERAMIC CAP, COG 50V 100PF J	R633	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C649	12751101T	CHIP CERAMIC CAP, COG 50V 100PF J	R634	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C650	12751101T	CHIP CERAMIC CAP, COG 50V 100PF J	R635	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
C651	12751101T	CHIP CERAMIC CAP, COG 50V 100PF J	R636	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
D601	11115545T	CHIP DIODE, KDS181-T1(A3) TP KE	R637	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
D604	11115545T	CHIP DIODE, KDS181-T1(A3) TP KE	R638	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
D605	11115545T	CHIP DIODE, KDS181-T1(A3) TP KE	R639	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
D606	11115545T	CHIP DIODE, KDS181-T1(A3) TP KE	R640	12873103T	CHIP RES, 1/16W 10K OHM J(1608)
D607	11115545T	CHIP DIODE, KDS181-T1(A3) TP KE	R641	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
D608	11115545T	CHIP DIODE, KDS181-T1(A3) TP KE	R642	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
D609	11115545T	CHIP DIODE, KDS181-T1(A3) TP KE	R643	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
D610	11115545T	CHIP DIODE, KDS181-T1(A3) TP KE	R644	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
D611	11115545T	CHIP DIODE, KDS181-T1(A3) TP KE	R645	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
L604	11106003T	CHIP BEAD CORE, HB-1M1608-601JT	R646	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
L605	11106003T	CHIP BEAD CORE, HB-1M1608-601JT	R647	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q604	11119913T	IC, NS MM74HC154WMX 1K/TP	R648	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q605	11119907	IC, TTL 74HC573D SOP20	R649	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q605	11118161T	IC, SGS-T M74HC573M1R (SOP20)	R650	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q606	11119994T	IC, PHILIPS 74HC574D(SOP20)	R651	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q606	11119923T	IC, NS MM74HC574WMX 1K/TP D F-F	R652	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q607	11119994T	IC, PHILIPS 74HC574D(SOP20)	R653	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q607	11119923T	IC, NS MM74HC574WMX 1K/TP D F-F	R654	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q608	11118289T	IC, LG GM76C256CLLFW70(T/R) 256K	R655	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q609	11119994T	IC, PHILIPS 74HC574D(SOP20)	R656	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q609	11119923T	IC, NS MM74HC574WMX 1K/TP D F-F	R657	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q611	11119905	IC, TTL 74HC138D SOP16	R658	12873101T	CHIP RES, 1/16W 100 OHM J(1608)
Q612	11119906	IC, TTL 74HC541D SOP20	R659	12873101T	CHIP RES, 1/16W 100 OHM J(1608)

ELECTRICAL PARTS LIST (EQ03S01)

P / No.	ITEM No.	ITEM NAME	P / No.	ITEM No.	ITEM NAME
R660	12873101T	CHIP RES, 1/16W 100 OHM J(1608)	D707	11115246T	SILICON DIODE, 1SS133-72-T
R661	12873101T	CHIP RES, 1/16W 100 OHM J(1608)	D708	11115246T	SILICON DIODE, 1SS133-72-T
R662	12873101T	CHIP RES, 1/16W 100 OHM J(1608)	D709	11115246T	SILICON DIODE, 1SS133-72-T
R663	12873101T	CHIP RES, 1/16W 100 OHM J(1608)	D710	11115246T	SILICON DIODE, 1SS133-72-T
R664	12873101T	CHIP RES, 1/16W 100 OHM J(1608)	D711	11115246T	SILICON DIODE, 1SS133-72-T
R665	12873101T	CHIP RES, 1/16W 100 OHM J(1608)	D712	11115246T	SILICON DIODE, 1SS133-72-T
R666	12873101T	CHIP RES, 1/16W 100 OHM J(1608)	D713	11115246T	SILICON DIODE, 1SS133-72-T
R667	12873101T	CHIP RES, 1/16W 100 OHM J(1608)	D714	11115246T	SILICON DIODE, 1SS133-72-T
R668	12873101T	CHIP RES, 1/16W 100 OHM J(1608)	D715	11115246T	SILICON DIODE, 1SS133-72-T
R669	12873101T	CHIP RES, 1/16W 100 OHM J(1608)	D716	11115246T	SILICON DIODE, 1SS133-72-T
R670	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D717	11115246T	SILICON DIODE, 1SS133-72-T
R671	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D718	11115246T	SILICON DIODE, 1SS133-72-T
R672	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D719	11115246T	SILICON DIODE, 1SS133-72-T
R673	12873101T	CHIP RES, 1/16W 100 OHM J(1608)	D720	11115246T	SILICON DIODE, 1SS133-72-T
R674	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D721	11115246T	SILICON DIODE, 1SS133-72-T
R675	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D722	11115246T	SILICON DIODE, 1SS133-72-T
R676	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D723	11115246T	SILICON DIODE, 1SS133-72-T
R677	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D724	11115246T	SILICON DIODE, 1SS133-72-T
R678	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D725	11115246T	SILICON DIODE, 1SS133-72-T
R679	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D726	11115246T	SILICON DIODE, 1SS133-72-T
R680	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D727	11115246T	SILICON DIODE, 1SS133-72-T
R681	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D728	11115246T	SILICON DIODE, 1SS133-72-T
R687	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D729	11115246T	SILICON DIODE, 1SS133-72-T
R688	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D730	11115246T	SILICON DIODE, 1SS133-72-T
R689	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D731	11115246T	SILICON DIODE, 1SS133-72-T
R690	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D732	11115246T	SILICON DIODE, 1SS133-72-T
R691	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D733	11115246T	SILICON DIODE, 1SS133-72-T
R692	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D734	11115246T	SILICON DIODE, 1SS133-72-T
R693	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D735	11115246T	SILICON DIODE, 1SS133-72-T
R694	12873103T	CHIP RES, 1/16W 10K OHM J(1608)	D736	11115246T	SILICON DIODE, 1SS133-72-T
R698	12873000T	CHIP RES, 1/16W 0 OHM J(1608)	J734	11183004	PLATING WIRE, 0.6MM
R699	12873000T	CHIP RES, 1/16W 0 OHM J(1608)	J735	11183004	PLATING WIRE, 0.6MM
U112	11892881A	PCB, PEKZ13 SOUND(331 * 92-1Y,FR-4)	J736	11183004	PLATING WIRE, 0.6MM
C605	12797100T	CHEMICON, 50V 10MF 85C 5 * 11	J737	11183004	PLATING WIRE, 0.6MM
C612	12797100T	CHEMICON, 50V 10MF 85C 5 * 11	J738	11183004	PLATING WIRE, 0.6MM
C623	12797100T	CHEMICON, 50V 10MF 85C 5 * 11	U113	11892880	PCB, PEKN14 KEY EQ03S01(270 * 247-3YC)
C636	12797100T	CHEMICON, 50V 10MF 85C 5 * 11	CN701	11164855	CONNECTOR, FFC ELCO 8370-151 STR.
C640	12797100T	CHEMICON, 50V 10MF 85C 5 * 11	CABINET, ASS'Y EQ03S01		
C641	12797100T	CHEMICON, 50V 10MF 85C 5 * 11	UPPER CASE, SUB ASS'Y EQ03S01		
C642	12797100T	CHEMICON, 50V 10MF 85C 5 * 11	K101	11834333	UPPER CASE, BODY QC-1
CN601	11164855	CONNECTOR, FFC ELCO 8370-151 STR.	K102	11835100	GRILL, SPEAKER QC-1
CN602	11164854	CONNECTOR, AEHP1320-850LA-36T SUYI	K103	11845520	HIMERON, SPK NET
CN603	11164855	CONNECTOR, FFC ELCO 8370-151 STR.	K200	11827304	PLATE, LED QC-1
CN604	11164696	CONNECTOR, FPC 29S2.54 8370-291 29P	K200A	11827303	PLATE, OVERLAY QC-1
CN605	11164855	CONNECTOR, FFC ELCO 8370-151 STR.	K201	11814772	MEMBRANE KEY, EQ03S01
CN606	11164219	PLUG, 12P 5267-12AX	K202	11858418	BUTTON, RUBBER QC-1
CN607	11164121	PLUG, 2P 5267-02AX	K203	11826558	KNOB, BUTTON-A QC-1
D602	11115024T	SILICON DIODE, 1N4148	K203A	11826574	KNOB, BUTTON-A1 QC-1
D603	11115024T	SILICON DIODE, 1N4148	K204	11826559	KNOB, BUTTON-B QC-1
L603	11103049T	BEAD CORE, BFD3550R2F	K205	11826560	KNOB, BUTTON-C QC-1
Q601	11119601	IC, U-COM PCB80C51BH-2P 13482	K205A	11826575	KNOB, BUTTON-C1 QC-1
Q602	11119227	IC, TIMER KIA555P	K206	11826561	KNOB, POWER QC-1
Q610	11119751	IC, M27C512-15F1 (512K, 150NS)	K207	11032362	SCREW, PBTB 2.6 * 8 SZN
Q619	11119954	IC, KIA4558S OP SMP	K208	11032362	SCREW, PBTB 2.6 * 8 SZN
X601	11153221	CRYSTAL, 24.00000MHZ 18PF-FD ATS 13	K209	11032363	SCREW, PBTB 2.6 * 10 SZN
X602	11153239	CRYSTAL, 9.600000MHZ 33PF-FD ATS 13	K210	11032362	SCREW, PBTB 2.6 * 8 SZN
KEY, EMI PEKN14 EQ03S01			K211	152310009	SPEAKER SYSTEM, EQ03S1
D701	11115246T	SILICON DIODE, 1SS133-72-T	K212A	11151204	SPEAKER, SPK1182(SR0710R) 8 Ω
D702	11115246T	SILICON DIODE, 1SS133-72-T	K212B	300225210D	HARNESS, 2P 100MM
D703	11115246T	SILICON DIODE, 1SS133-72-T	NW01	11961024	SOLDER WIRE, ENERGIZED 63SN 1.6MM
D704	11115246T	SILICON DIODE, 1SS133-72-T	K211A	11032362	SCREW, PBTB 2.6 * 8 SZN
D705	11115246T	SILICON DIODE, 1SS133-72-T	K214	11179089	PLATE CABLE, 29P L=100MM
D706	11115246T	SILICON DIODE, 1SS133-72-T	K215	11179090	PLATE CABLE, 15P L=100MM
D707	11115246T	SILICON DIODE, 1SS133-72-T			

# ELECTRICAL PARTS LIST (EQ03S01)

P / No.	ITEM No.	ITEM NAME	P / No.	ITEM No.	ITEM NAME
K215	11179090	PLATE CABLE, 15P L=100MM			
K216	11845214	CORD CLAMP, DALC-2 (L50 * W2.6 * ø 4)			
K217	11032362	SCREW, PBTB 2.6 * 8 SZN			
K220	152120135	PITCH BEND SUB ASS'Y, QC-1			
K220A	11826562	KNOB, PITCH BEND QC-1			
K220B	11843101	BRACKET, PITCH BEND QC-1			
K220C	11836137	BEND SPRING			
K220D	11964025	GREASE, G501			
K220E	11055506	WASHER, CS TYPE (12)			
K220F	11847831	BEND SPACER-B			
K220G	11961024	SOLDER WIRE, ENERGIZED 63SN 1.6MM			
K220H	12060218	VOLUME 16A 20F B50K			
K220I	300225225D	HARNESS, 2P 250MM			
K220J	11847832	BEND SPACER-C			
K221	11032362	SCREW, PBTB 2.6 * 8 SZN			
K222	11827305	PLATE, LCD QC-1			
K223	11826563	KNOB, MASTER VOLUME QC-1			

## LOW CASE SUB ASS'Y, QC-1

K300A	11839816	LOW CASE, BODY QC-1
K300B	11845507	RUBBER, FOOT QC-1
K300I	11845509	HIMERON, 90 * 32 * 0.5T
K301	11962019	BOND(BLK)
K302	11826564	DOOR, ROM PACK QC-1
K303	11836195	SPRING, DOOR QC-1
K304	11843102	BRACKET, BATTERY BLIND QC-1
K304A	11032364	SCREW, PBTB 2.6 * 12 SZN
K305	11839817	BATTERY COVER SUB ASS'Y, QC-1
K305A	11839818	BATTERY COVER, BODY QC-1
K305B	11845508	SPONGE, 95 * 14 * 3T QC-1
K306	11032308	SCREW, PBTB 3 * 8 SZN
K307	11032362	SCREW, PBTB 2.6 * 8 SZN

## BATTERY SPRING ASS'Y, Q\_CHORD

K400A	11836196	SPRING, (+,-) QC-1
K400B	11836197	SPRING, (+) QC-1
K400C	11836198	SPRING, (-) QC-1
K400D	300225210D	HARNESS, 2P 100MM
K400E	11961024	SOLDER WIRE, ENERGIZED 63SN 1.6MM

## PACKING MATERIAL 1SET, EQ03S01

K701	11926577	GIFT BOX, EQ03S01
K701A	11901264	LABEL, SERIAL NO (SUZUKI)
K701B	11901264	LABEL, SERIAL NO (SUZUKI)
K702	11926578	CARTON BOX, EQ03S01
K702A	11955650	PLA CARD, EQ03S01
K703	11933657	PACKING, EQ03S01
K704	11933658	EPS PAD, EQ03S01
K705	11943151	POLY BAG, MIRAMAT 350 * 700MM
K706	11101034	DRY BATTERY, R14(CM, 1.5V) "R" STC
K707	11965108	TAPE, CELLO W75
K708	11858419A	PAD, DECO-A QC-1
K710	11901071	LABEL, NAME EQ03S01

## ACCESSORY 1SET, EQ03S01

Y101	11943051	POLY BAG, W230 H360
Y102	11955579A	OWNER'S MANUAL, EQ03S01
Y103	11845540	CLEAR YELLOW, 200 * 210
Y106	11955632	CARD, REGISTRATION QC-1
Y107	11955633	CARD, ACCESSORIES FORM QC-1
Y108	23968006	STAPLE