

VESTAX

SERVICE NOTE

MODEL: PCV-002

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Vestax Corporation Service Department

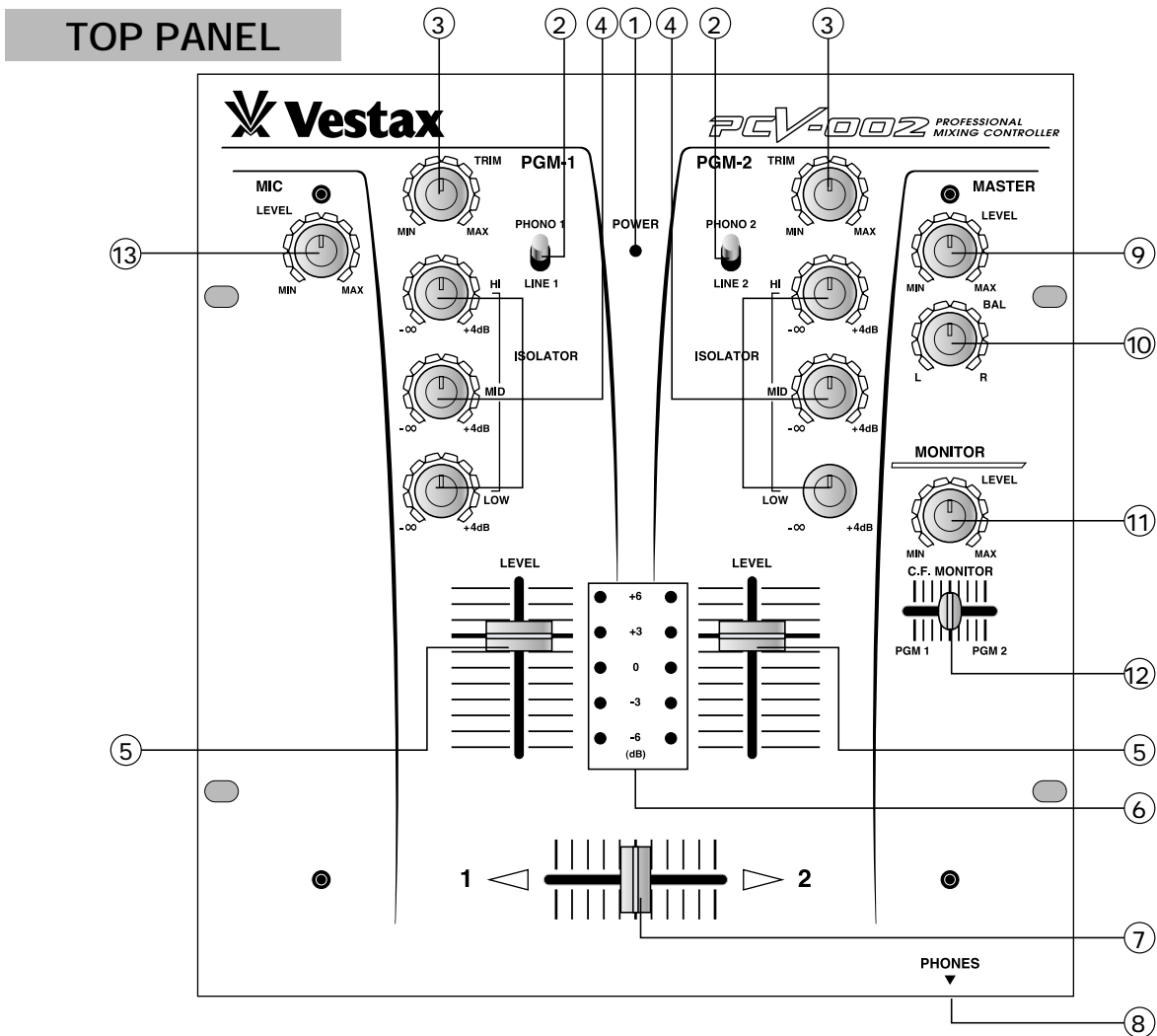
(2003-07-22)

Vestax Numbr	Model	Categorie	Description	PCB	SYMBOL
B050100200	PCV-002	CASE	BOTTOM FRAME		
V012011200	PCV-002	VR	C.F. MONITOR VOLUME	Control	VR13
V014511D00	PCV-002	VR	CROSSFADER	Fader	VR17
J030470015	PCV-002	CONNECTOR	DC JACK	In-Out	J6
B010100204	PCV-002	CASE	FACE PANEL		
H01MT90302	PCV-002	CONNECTOR	GND TERMINAL		
J010544010	PCV-002	CONNECTOR	HEADPHONE JACK	Phones	J4
I04M781200	PCV-002	IC	IC NJM7812	In-Out	U20
I05AN6884S	PCV-002	IC	IC AN6822S	Control	IC1 IC2
I010082L02	PCV-002	IC	IC NJM082L	Control	U10 U11 U12 U13 U14 U15 U16 U17 U2 U3 U4 U5
I012068L02	PCV-002	IC	IC NJM2068L	Control	U8 U9 U8
I014556AL2	PCV-002	IC	IC NJM4556AL	Control In-Out	U7 U9
I014580L02	PCV-002	IC	IC NJM4580L	Control In-Out	U1 U6
V014511201	PCV-002	VR	INPUT FADER	Control	VR2 VR4
S0222B1702	PCV-002	SWITCH	INPUT SELECT SWITCH	Control	SW1 SW2
V0209L1200	PCV-002	VR	ISOLATOR VOLUME	Control	VR6 VR7 VR8 VR9 VR10 VR11
V0209L1201	PCV-002	VR	MASTER BALANCE VOLUME	Control	VR14
V0209L1202	PCV-002	VR	MASTER LEVEL VOLUME	Control	VR15
J011523110	PCV-002	CONNECTOR	MIC JACK	In-Out	J5
V0209L1100	PCV-002	VR	MIC LEVEL VOLUME	Control	VR16
V0209L1203	PCV-002	VR	MONITOR VOLUME	Control	VR5
X020100204	PCV-002	MANUAL	OWNER'S MANUAL		
S018802000	PCV-002	SWITCH	POWER SWITCH	In-Out	S1
K030000100	PCV-002	Knob	POWER SWITCH KNOB		
J025857A02	PCV-002	CONNECTOR	RCA (4P) JACK	In-Out	J1 J2 J3

Quantity	Specification
1	50KB*2 L=15mm
1	100KB*2
1	RS20112
1	RS4511DB6
1	HEC0470-01-630 DC 15V
1	BLUE
1	MT-903
1	HLJ-0544-01-010
1	12V REGULATOR
1	LED DRIVER
1	
1	
1	DUAL OP AMP
1	OPERATIONAL
1	RS45112A6
1	20KA*2 L=20mm T=45mm
1	LBC22B17K SILVER
1	
1	20KC*2 L=15mm
1	10KAC*2 L=15mm
1	20KA*2 L=15mm
1	RK09L12D0A1F
1	HLJ-1520-01-3110(CLOSE)
1	RK09L1140A5K
1	10KA L=15mm
1	10KA*2 L=15mm
1	RK09L12D0
1	
1	SDDL880200-9
1	POWER SW
1	T5857AAAF, NICKEL (SILVER)

SHEET

CONTROLS AND FUNCTIONS



- ① **POWER LED**
The LED is lit when power is on.
- ② **INPUT SELECT SWITCH**
Used to select the input (LINE or PHONO) to be sent to each PGM channel.
- ③ **TRIM CONTROL**
Adjusts the input level of each channel.
- ④ **ISOLATOR (HI,MID,LOW)**
Cuts and boosts each frequency range. The level is flat when this knob is set at 12 o'clock.
- ⑤ **INPUT FADER**
Used to adjust the input level of each program. Usually set at the 7-8 position.
- ⑥ **INPUT LEVEL METER**
The LED level meters indicate the input signal level of each PGM channel.
- ⑦ **CROSS FADER**
When the input level of PGM1 and PGM2 are properly set, PGM1 will be heard with the cross fader set to the left side. PGM2 will be heard with the cross fader set to the right side. When the cross fader is set in the center, both programs will be heard. This is a detachable fader for the ease of replacement with "CF-RUS" "CF-R" or "CF-PCV" when it is worn out.
- ⑧ **PHONES JACK**
Use this jack to connect the head phones. Head phones from 8 ohm to 600 ohm can be used. 150 ohm is recommended.
- ⑨ **MASTER LEVEL**
Adjusts the signal level output from the LINE OUT jack on the rear panel.
- ⑩ **MASTER BALANCE**
Adjusts the signal balance of the left and right side of the outputs from the LINE OUT jack on the rear panel.
- ⑪ **MONITOR LEVEL**
Adjusts the head phone output level.
- ⑫ **MONITOR SELECT FADER**
When the monitor levels of PGM1 and PGM2 are properly set, PGM1 will be monitored in the headphone with the fader set to the left side and PGM2 will be monitored in the head phone with the fader set to the right side. When the fader is set in the center, both programs will be monitored in the head phone.
- ⑬ **MIC LEVEL**
Adjusts the input level from all microphone inputs.

How to change the fader unit.

■ HOW TO REMOVE THE TOP PANEL

- ① Remove all fader knobs and the 4 screws which fix the top panel.(see fig.A)
- ② Remove the top panel.

■ HOW TO CHANGE THE FADER UNIT

- ① Remove the screws on the fader panel.(see fig.B)
- ② Remove the fader unit from position in mixer.
- ③ Carefully remove the multi-cable connector from fader unit.(see fig.C)
- ④ Attach multi-cable connector to new fader unit.
- ⑤ Position the fader unit carefully and secure with screws.

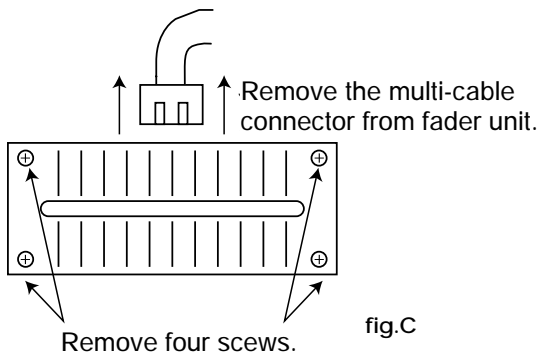


fig.C

You can replace the CF unit with "CF-RUS", "CF-R" or "CF-PCV".


■ HOW TO REPLACE THE CF UNIT WITH "CF-PCV"

When the fader unit is replaced, please see fig.C. Place the fader unit in the proper position and fix it with two screws.(fig.D-②)

CAUTION

There is a switch for "CF-PCV" unit. When "CF-PCV" unit is installed, set the switch to "PCV" mode.

CAUTION

When the fader unit is replaced, do not loosen the screws with  marking.

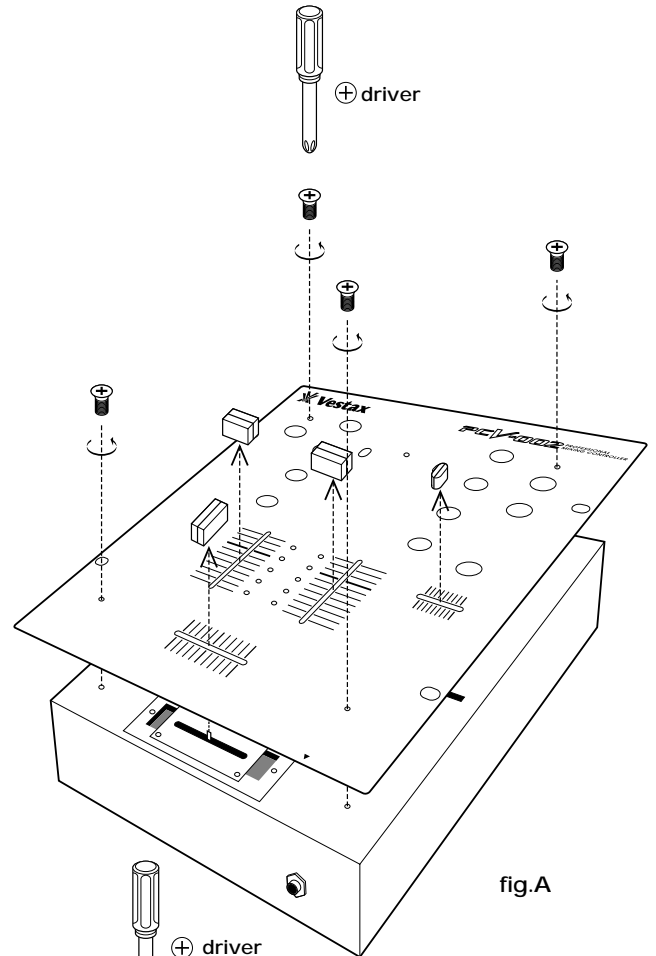


fig.A

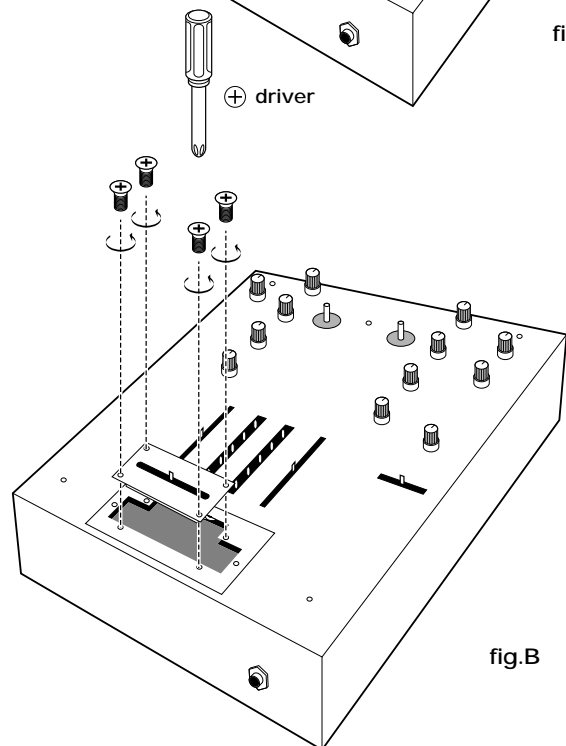


fig.B

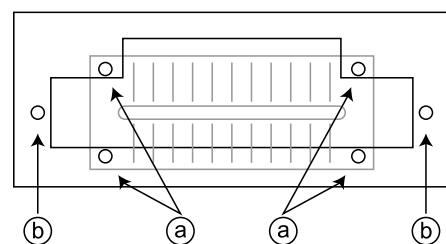
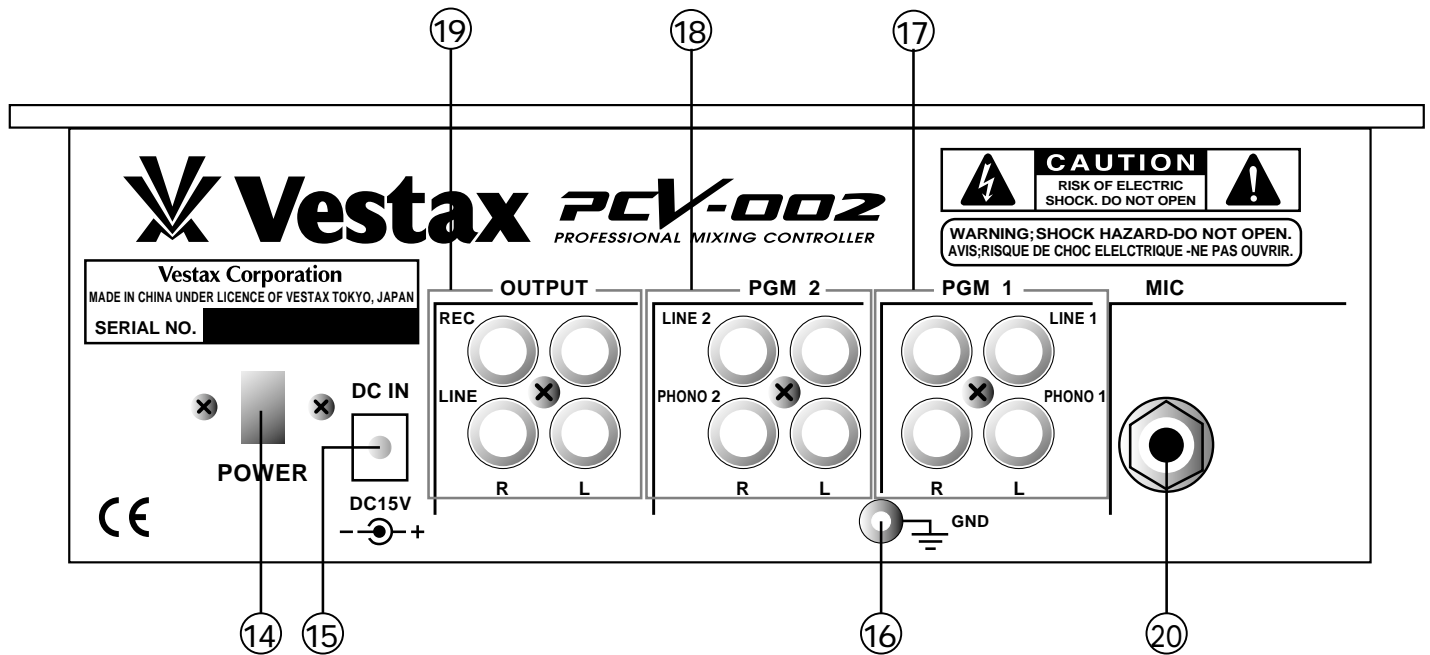


fig.D

①: CF-RUS or CF-R
②: CF-PCV

REAR PANEL



⑭ POWER SWITCH

The POWER LED that is located on the top panel is lit when on.

⑮ DC IN

Connect to the DC-15 AC adapter.

⑯ GND TERMINAL

Connect this terminal to the ground lead of the turntable. This helps to reduce noise and hum.

⑰ INPUT JACK 1

Used for PGM1 input. Connect turntable equipped with a MM pickup cartridge to PHONO input. CD players, tape decks, DATs, MDs etc., should be connected to LINE input. Line level musical instruments with stereo outputs such as Rhythm Machines or Samplers should also be connected to line inputs.

⑱ INPUT JACK 2

Used for PGM2 input. Connect as for ⑰.

⑲ OUTPUT JACK

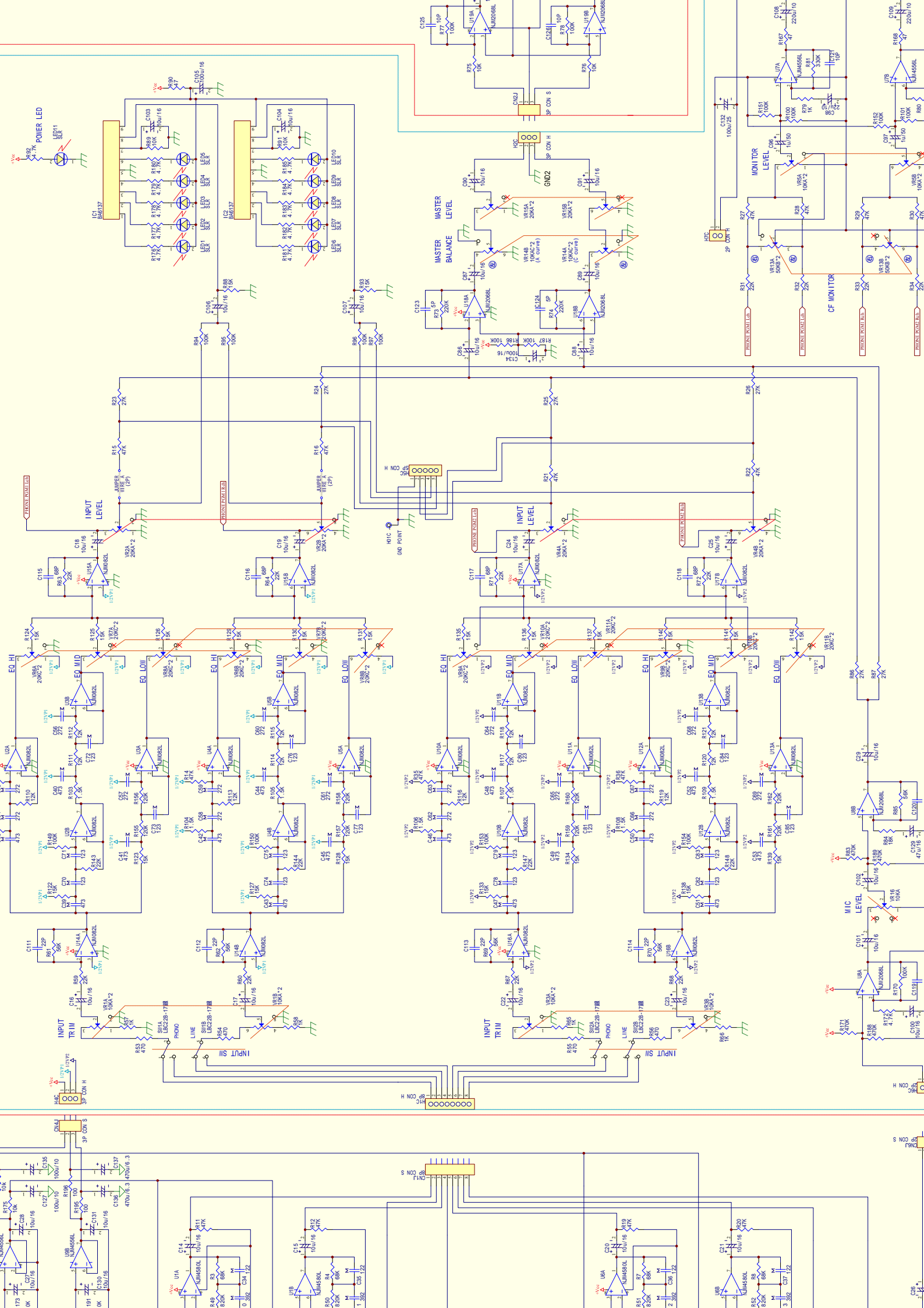
Connect to the input of a power amplifier. You can also use another LINE OUT when you need to have an output besides the main output.

⑳ MIC INPUT JACK

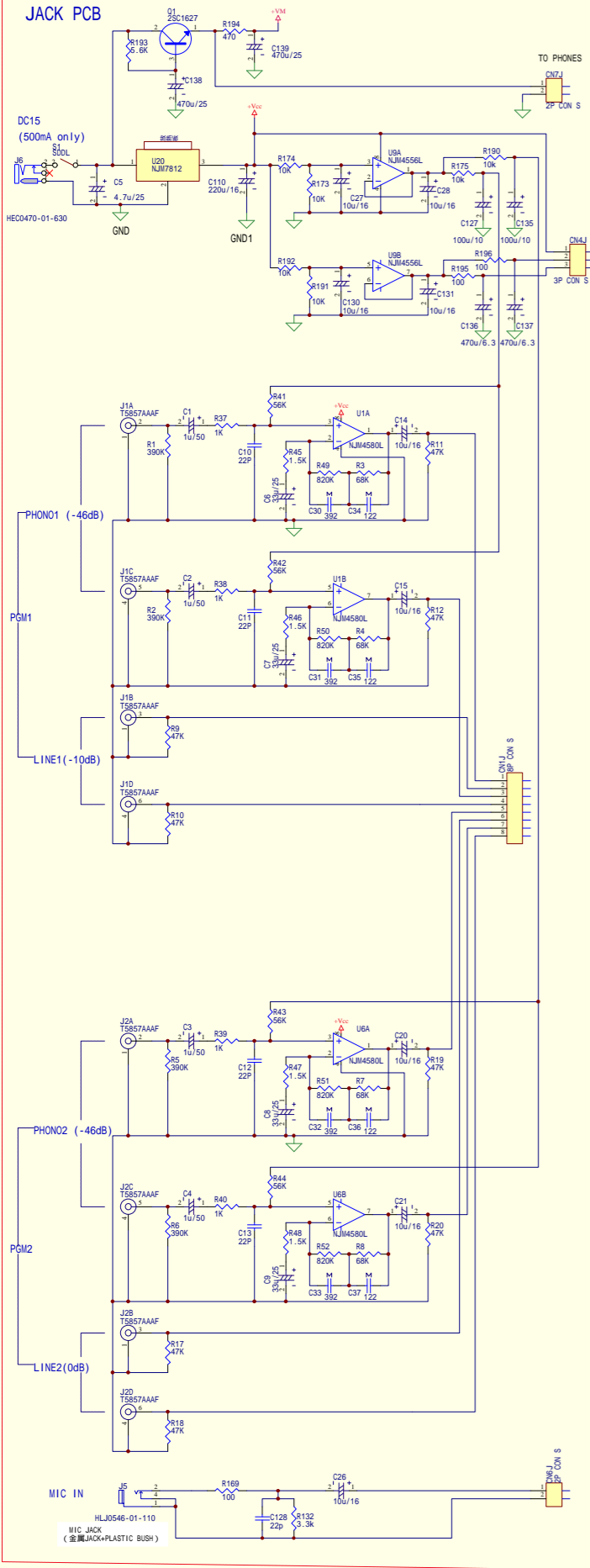
Input jacks of connection of a microphone.

SPECIFICATIONS

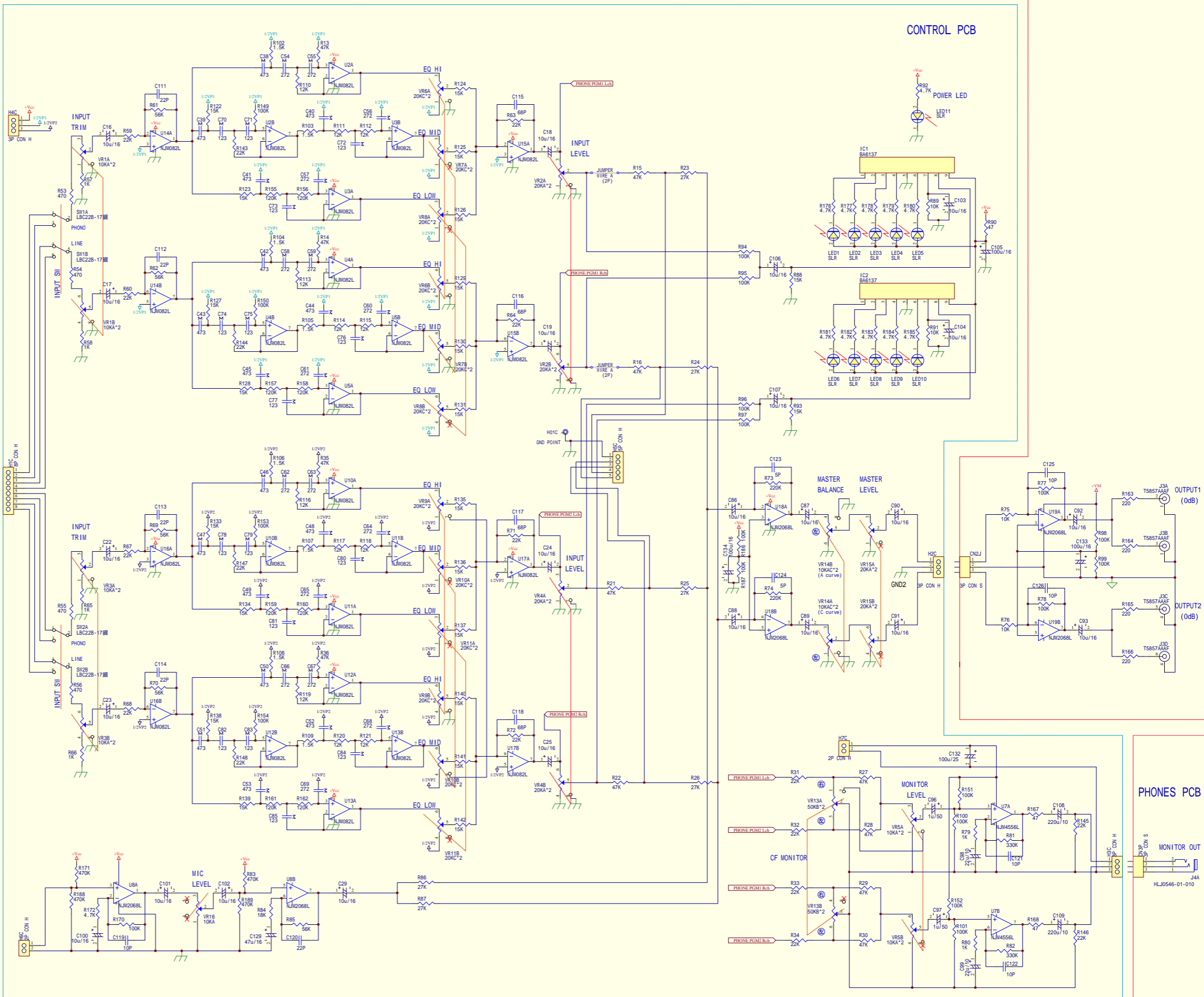
		NOMINAL INPUT	IMPEDANCE
INPUT SECTION	PHONO 1, 2 (RCA PIN JACK)	-42dBv	470K Ω
	LINE 1, 2 (RCA PIN JACK)	-10dBv	470K Ω
	MIC (1/4" PHONE JACK)	-54dBv	3.3K Ω
		NOMINAL OUTPUT	IMPEDANCE
OUTPUT SECTION	LINE OUT (RCA JACK)	0dBv	220 Ω
		MAXIMUM OUTPUT	IMPEDANCE
	HEADPHONE (1/4" PHONE JACK)	70mW (47 Ω load)	>8 Ω
FREQUENCY RESPONSE		20Hz ~ 20KHz	
CROSS TALK		>100dB	
S/N RATIO		<-82dB	
POWER SUPPLY		DC15V 500mA	
DIMENSIONS(W×H×D)		248×105×261(mm)	
WEIGHT		3.5kg	

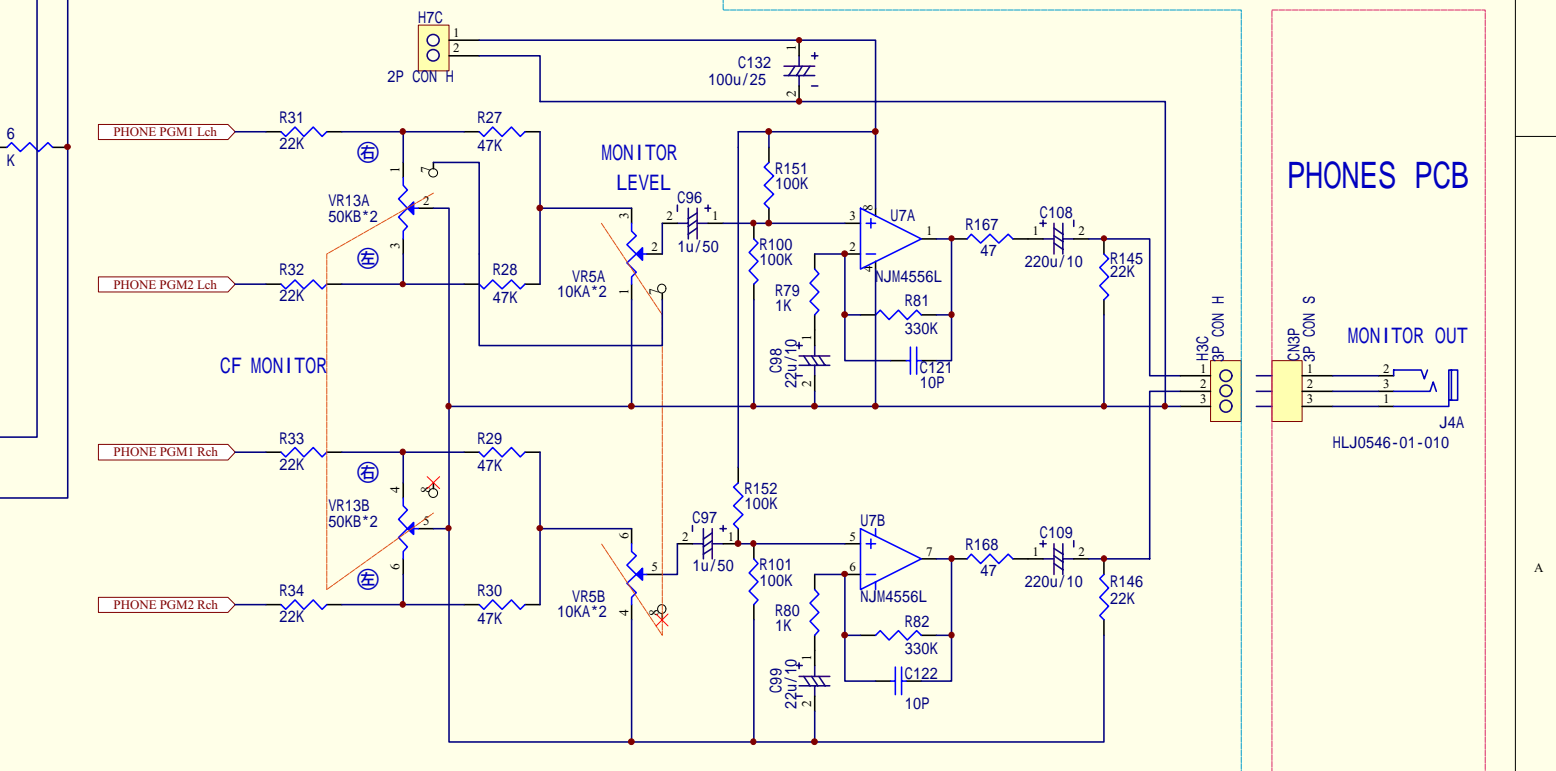
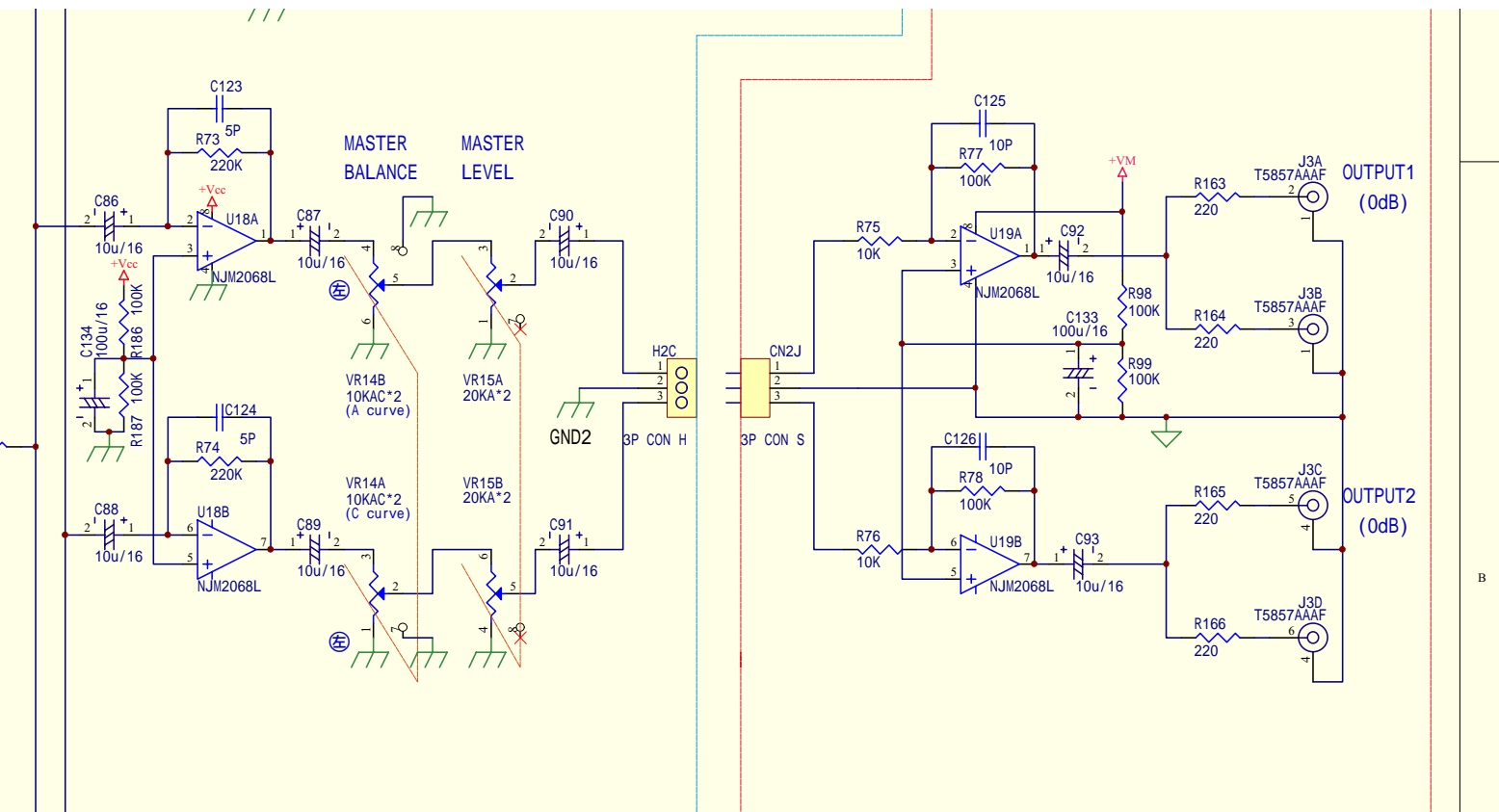


JACK PCB



CONTROL PCB



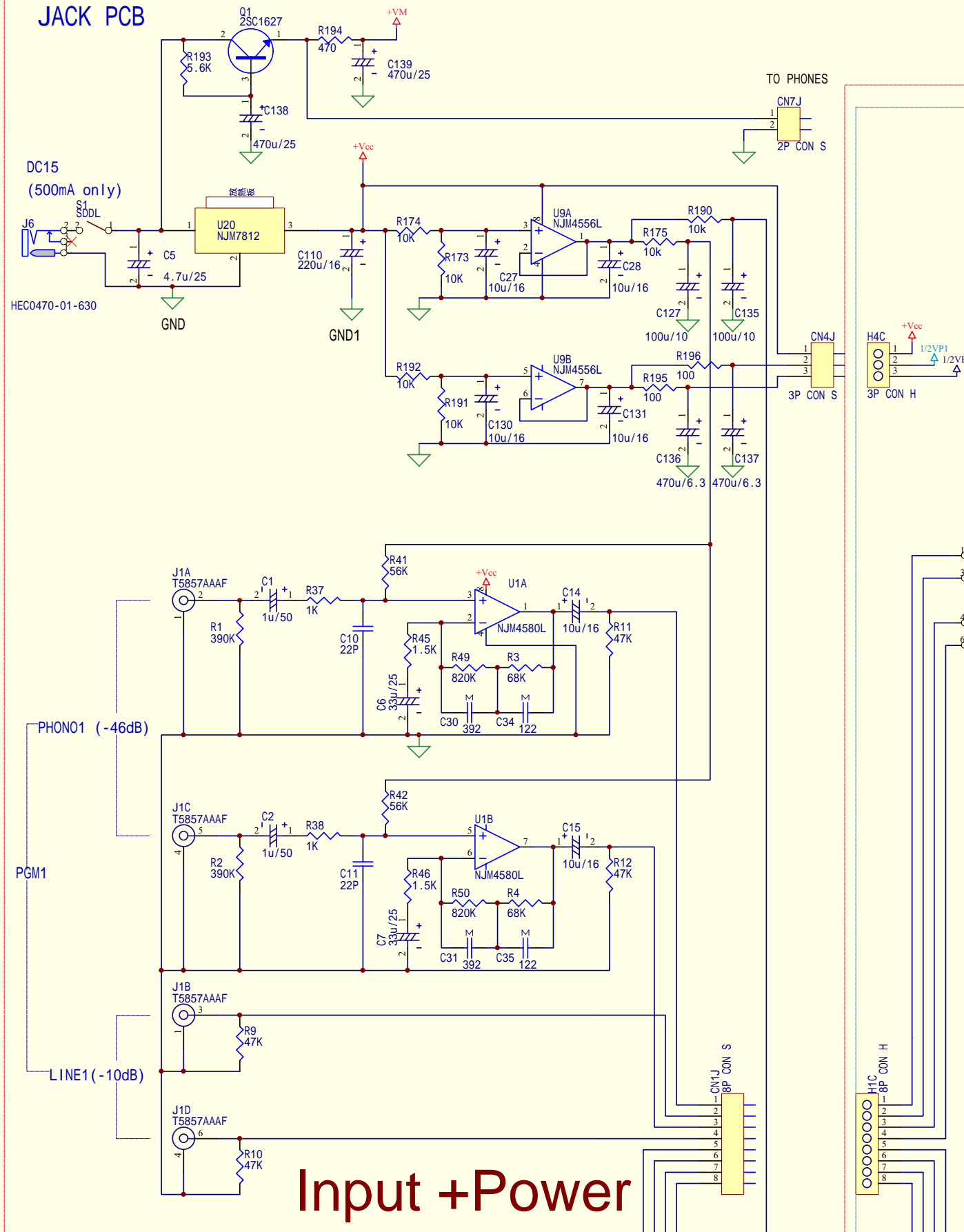


Output, Phones

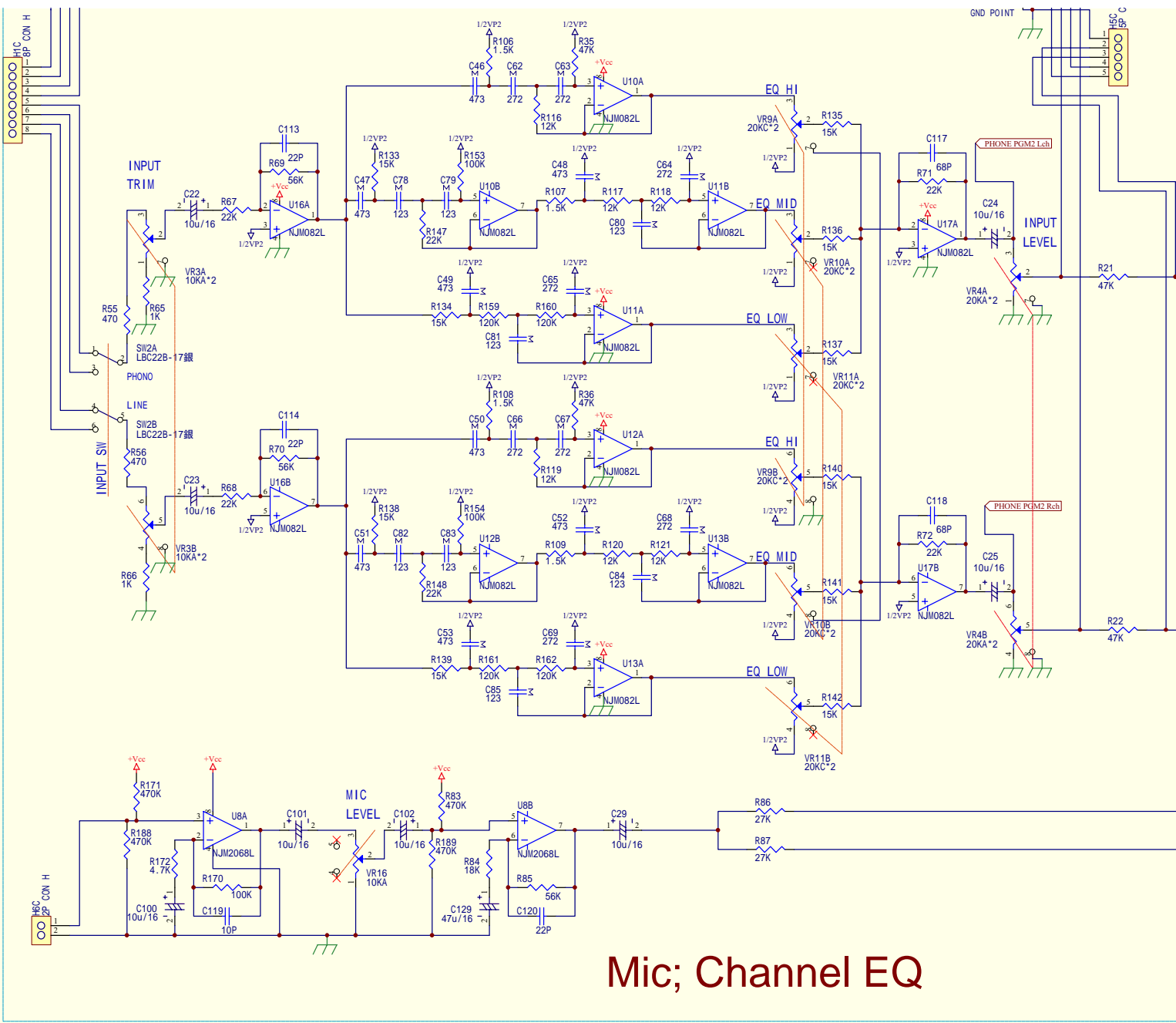
改訂 2002.1.7
 (R88, R93 ~ 27K 15K)
 (C132 ~ 100u/16 100u/25)

Title		
PCV-002U 量産図		
Size	Number	Revision
A1		2001.11.20
Date:	7-Jan-2002	Sheet of
File:	D:\Vestax\PCV002-EZY*.asc	Drawn By:
		ATMI

JACK PCB

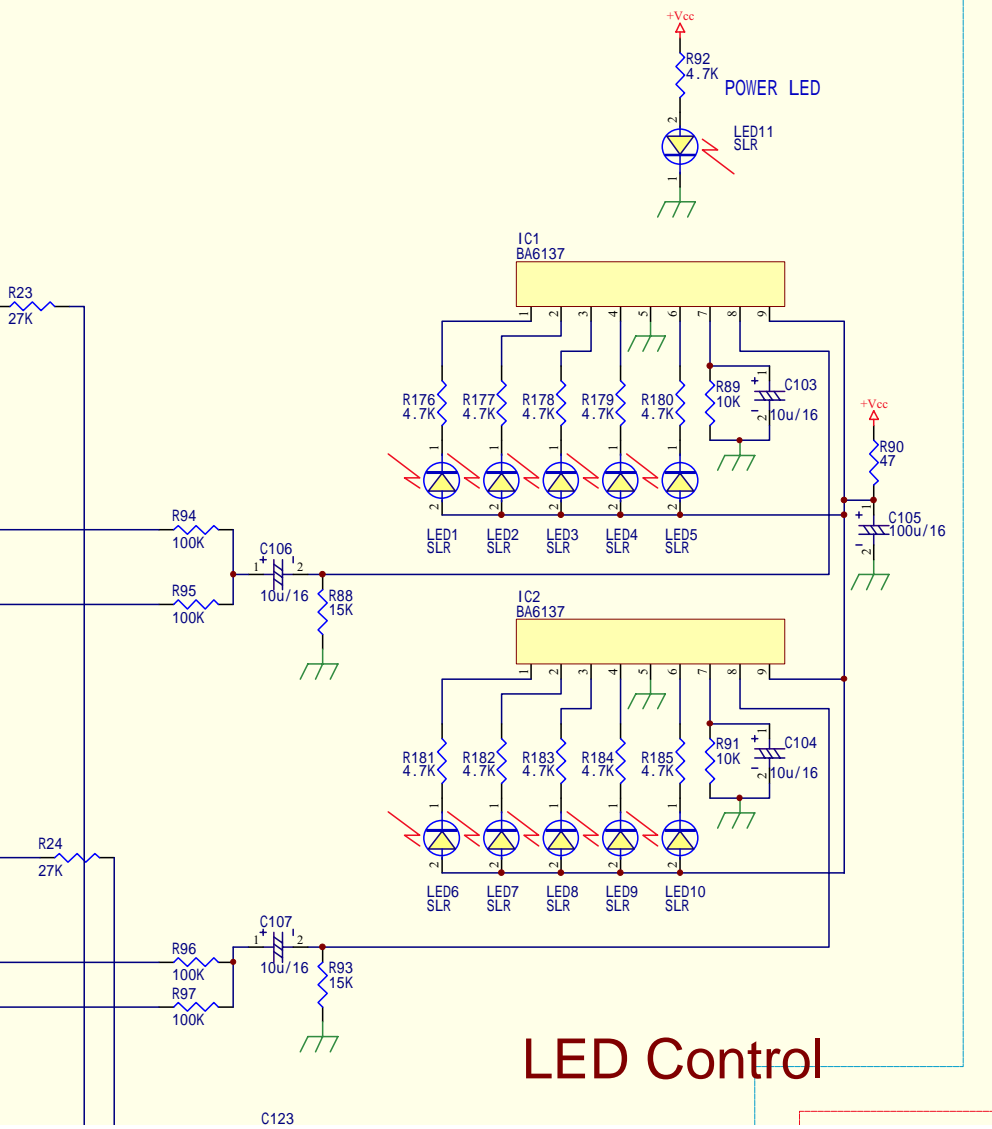


Input + Power



Mic; Channel EQ

CONTROL PCB



LED Control

C123

D

C

CAP CERA	TAIYOYUDEN	P=5mm(forming type)	10P	5 C119 C121 C122 C125 C126
CAP CERA	TAIYOYUDEN	P=5mm(forming type)	22P	10 C10 C11 C12 C13 C111 C112 C113 C114 C120 C128
CAP CERA	TAIYOYUDEN	P=5mm(forming type)	5P	2 C123 C124
CAP CERA	TAIYOYUDEN	P=5mm(forming type)	68P	4 C115 C116 C117 C118
CAP M	NISSEI	P=5mm(forming type)	122	4 C34 C35 C36 C37
CAP M	NISSEI	P=5mm(forming type)	123	16 C70 C71 C72 C73 C74 C75 C76 C77 C78 C79 C80 C81 C82 C83 C84 C85
CAP M	NISSEI	P=5mm(forming type)	272	16 C54 C55 C56 C57 C58 C59 C60 C61 C62 C63 C64 C65 C66 C67 C68 C69
CAP M	NISSEI	P=5mm(forming type)	392	4 C30 C31 C32 C33
CAP M	NISSEI	P=5mm(forming type)	473	16 C38 C39 C40 C41 C42 C43 C44 C45 C46 C47 C48 C49 C50 C51 C52 C53
CAPE	nichicon/ELNA	RC2 10V(ELNA)	100u/10	2 C127 C135
CAPE	nichicon/ELNA	RC2 16V(ELNA)	100u/16	3 C133 C134 C105
CAPE	nichicon/ELNA	RC2 25V(ELNA)	100u/25	1 C132
CAPE	nichicon/ELNA	RC2 16V(ELNA)	10u/16	33 C100 C101 C102 C103 C104 C106 C107 C130 C131 C14 C15 C16 C17 C18 C19 C20
CAPE	nichicon/ELNA	RC2 50V(ELNA)	1u/50	6 C1 C2 C3 C4 C96 C97
CAPE	nichicon/ELNA	RC2 10V(ELNA)	220u/10	2 C108 C109
CAPE	nichicon/ELNA	RC2 16V(ELNA)	220u/16	1 C110
CAPE	nichicon/ELNA	RC2 10V(ELNA)	22u/10	2 C98 C99
CAPE	nichicon/ELNA	RC2 25V(ELNA)	33u/25	4 C6 C7 C8 C9
CAPE	nichicon/ELNA	RC2 25V(ELNA)	4.7u/25	1 C5
CAPE	nichicon/ELNA	RE2 25V(ELNA)	470u/25	2 C138 C139
CAPE	nichicon/ELNA	RE2 6.3V(ELNA)	470u/6.3	2 C136 C137
CAPE	nichicon/ELNA	RC2 16V(ELNA)	47u/16	1 C129
CONNECTOR		P=2mm	2P	1 CN7J - H7C
CONNECTOR		P=2mm	2P	1 CN6J - H6C
CONNECTOR		P=2mm	3P	1 CN2J - H2C
CONNECTOR		P=2mm	3P	1 CN3P - H3C
CONNECTOR		P=2mm	3P	1 CN4J - H4C
CONNECTOR		P=2mm	5P	1 H5C - CF UNIT
CONNECTOR		P=2mm	8P	1 CN1J - H1C
JUMPER WIRE			2P	1 A(1.2) - A(1.2)
GND RUG/WIRE			GND POINT	1 H01C
C	JRC	.. L type(SIP-8)	NJM082L	12 U10 U11 U12 U13 U14 U15 U16 U17 U2 U3 U4 U5
C	JRC	.. L type(SIP-8)	NJM2068L	3 U18 U19 U8
C	JRC	.. L type(SIP-8)	NJM4556L	2 U7 U9
C	JRC	.. L type(SIP-8)	NJM4580L	2 U1 U6
LED	ROHM	(RED)	SLR342VR	11 LED1 LED2 LED3 LED4 LED5 LED6 LED7 LED8 LED9 LED10 LED11

Resistor	P=5mm(1/4W ...	47	3 R90 R167 R168
Resistor	P=5mm(1/4W ...	100	3 R169 R195 R196
Resistor	P=5mm(1/4W ...	220	4 R163 R164 R165 R166
Resistor	P=5mm(1/4W ...	470	5 R194 R53 R54 R55 R56
Resistor	P=5mm(1/4W ...	1.5K	12 R45 R46 R47 R48 R102 R103 R104 R105 R106 R107 R108 R109
Resistor	P=5mm(1/4W ...	100K	19 R100 R101 R149 R150 R151 R152 R153 R154 R170 R186 R187 R77 R78 R94 R95
Resistor	P=5mm(1/4W ...	10K	10 R173 R174 R175 R190 R191 R192 R75 R76 R89 R91
Resistor	P=5mm(1/4W ...	120K	8 R155 R156 R157 R158 R159 R160 R161 R162
Resistor	P=5mm(1/4W ...	12K	12 R110 R111 R112 R113 R114 R115 R116 R117 R118 R119 R120 R121
Resistor	P=5mm(1/4W ...	15K	22 R122 R123 R124 R125 R126 R127 R128 R129 R130 R131 R133 R134 R135 R136
Resistor	P=5mm(1/4W ...	18K	1 R84
Resistor	P=5mm(1/4W ...	1K	10 R37 R38 R39 R40 R57 R58 R65 R66 R79 R80
Resistor	P=5mm(1/4W ...	220K	2 R73 R74
Resistor	P=5mm(1/4W ...	22K	18 R143 R144 R145 R146 R147 R148 R31 R32 R33 R34 R59 R60 R63 R64 R67 R68
Resistor	P=5mm(1/4W ...	27K	6 R23 R24 R25 R26 R86 R87
Resistor	P=5mm(1/4W ...	3.3k	1 R132
Resistor	P=5mm(1/4W ...	330K	2 R81 R82
Resistor	P=5mm(1/4W ...	390K	4 R1 R2 R5 R6
Resistor	P=5mm(1/4W ...	4.7K	12 R172 R176 R177 R178 R179 R180 R181 R182 R183 R184 R185 R92
Resistor	P=5mm(1/4W ...	470K	4 R171 R188 R189 R83
Resistor	P=5mm(1/4W ...	47K	20 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R27 R28 R29 R30 R35
Resistor	P=5mm(1/4W ...	5.6K	1 R193
Resistor	P=5mm(1/4W ...	56K	9 R41 R42 R43 R44 R61 R62 R69 R70 R85
Resistor	P=5mm(1/4W ...	68K	4 R3 R4 R7 R8
Resistor	P=5mm(1/4W ...	820K	4 R49 R50 R51 R52
SWITCH	(INPUT SELECT)	LBC22B-17 silber	2 SW1 SW2
SWITCH	(POWER)	SDDL(SPST)	1 S1
VOLUME	ALPS RK09L1140A5K (MIC)	10KA	1 VR16 (JPN YSE no. 010807-3 10KA)
VOLUME	ALPS RK09L12D0A1W (GAIN/PHONE)	10KA*2	3 VR1 VR3 VR5 (JPN YSE no. 980708-3A 10KA*2)
VOLUME	ALPS RK09L1240 (BALANCE)	10K(AC)*2	1 VR14 (JPN YSE no. 011023-1 10KA*2 S/C)
VOLUME	ALPS RK09L12D0A1E (MASTER)	20KA*2	1 VR15 (JPN YSE no. 011023-2 20KA*2)

JUMPER PIN	P=5mm		21	
JUMPER PIN	P=7.5mm		3	
JUMPER PIN	P=10mm		57	
JUMPER PIN	P=15mm		12	
JUMPER PIN	P=20mm		11	
PCB BOARD	MAIN PCB / IN OUT PCB		1	
CF UNIT (CF-R or SFV CF)				
CF-R UNIT	ALPS	VOLUME	1	VR13
CF-R UNIT		PCB BOARD	1	
CF-R UNIT		CROSS FADER PLATE	1	
CF-R UNIT		CONNECTOR	1	5P
SFV CF UNIT	GPE	PCB ASSY FADER (PCB-V0320C-FAD)	1	VR13
CASING MATERIAL				
PANEL	TOP	PCV-002U	1	
PANEL	REAR	PCV-002U	1	
PANEL	BOTTOM	PCV-002U	1	
PANEL	FRAME	PCV-002U	1	
FELT	FOR FADER		1	
FELT	FOR SW MASK		2	
KNOB	ROTARY KNOB		12	MIC / GAIN*2 / EQ (HI.MID.LOW)*2 / MASTER / BALANCE / PHONE
KNOB	FADER KNOB		3	IF1 / IF2 / CF
KNOB	EQ FADER KNOB		1	MONITOR CF
KNOB	SWITCH KNOB	BLK	1	POWER SW
PLASTIC BUSHING / PLASTIC WASHER	FOR METAL PHONE JACK	BUSHING+WASHER	2	PHONE JACK / MIC JACK
GND TERMINAL		+NUT	1	
PLASTIC FOOT			4	
WASHER			*	
NUT			*	
SCREW			*	
PACKING MATERIAL				

K02100DD02	PCV-002	CONNECTOR	RO/KNOB(SMALL)SILVER		
H030100100	PCV-002	CASE	RUBBER STAND FOOT		
K013000002	PCV-002	Knob	SL/KNOB(LARGE)SILVER		
K011000002	PCV-002	Knob	SL/KNOB(SMALL) SILVER		
B020100200	PCV-002	CASE	SUB FRAME		
T021627A00	PCV-002	TRANSISTOR	TR 2SC1627A	In-Out	Q1
V0209L1204	PCV-002	VR	TRIM VOLUME	Control	VR1 VR3

		ALL	
		IF, CF	
		CF MONITOR	
		1 10KA*2 L=15mm	RK09L12D0