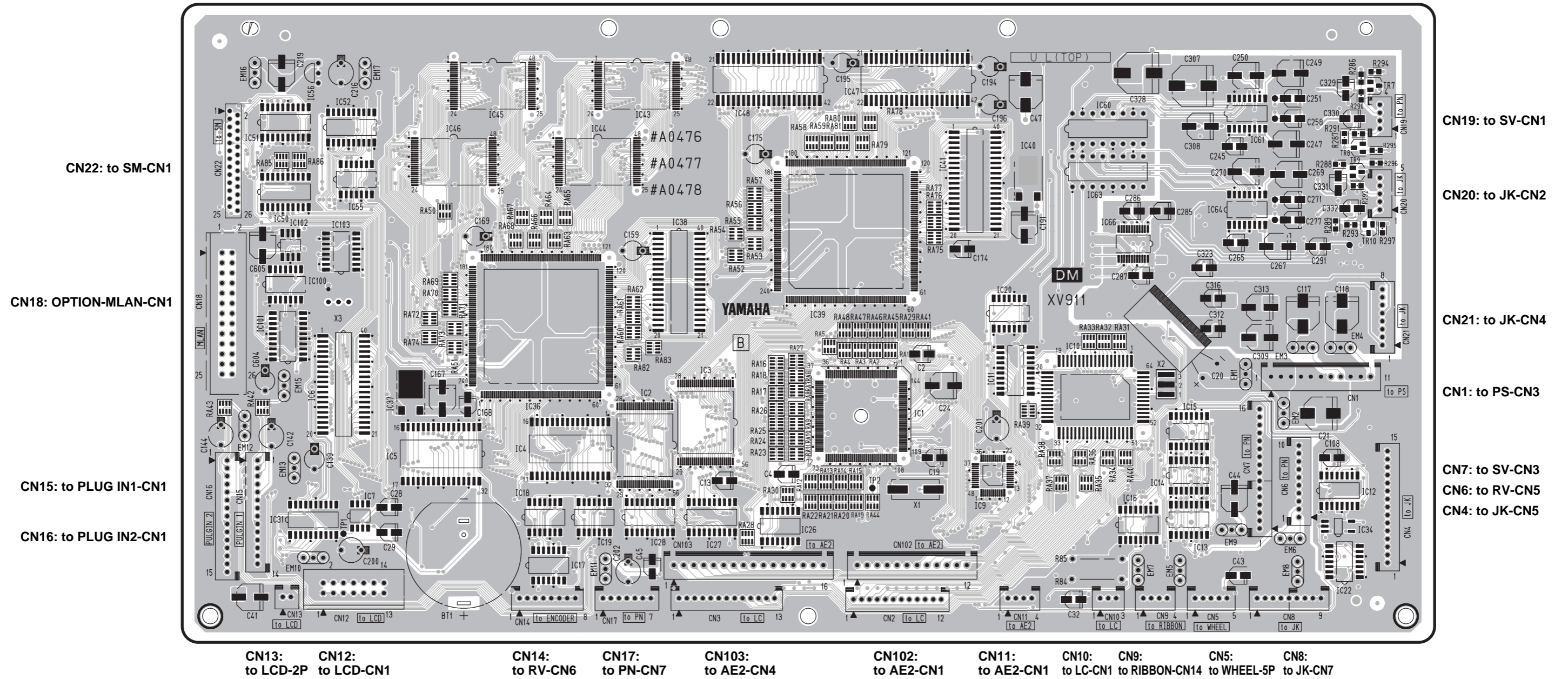


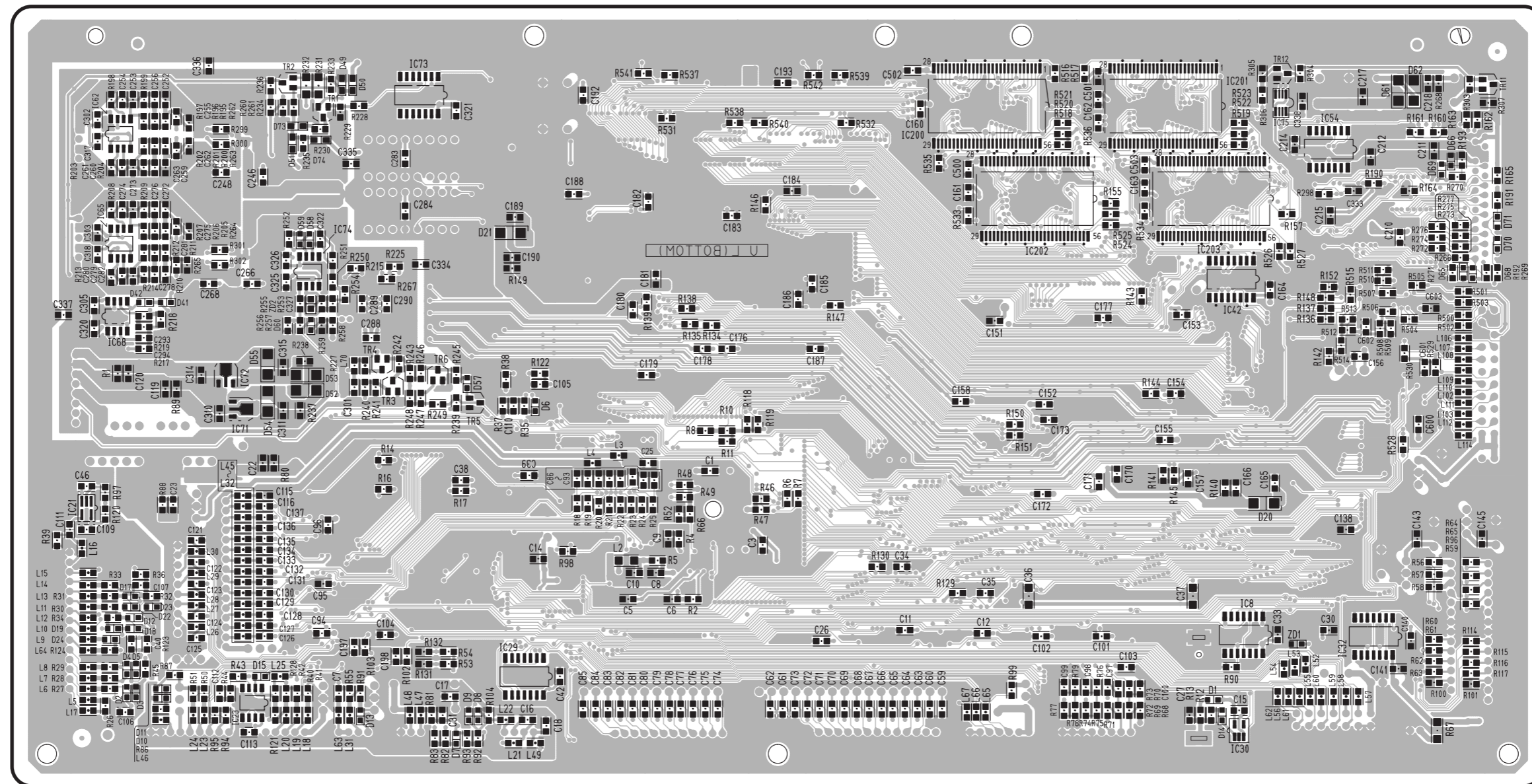
■ **CIRCUIT BOARDS**

• **DM Circuit Board**



Note : See parts list for details of circuit board component parts.

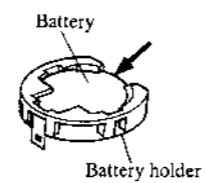
DM: 2NA-V357640



Pattern side

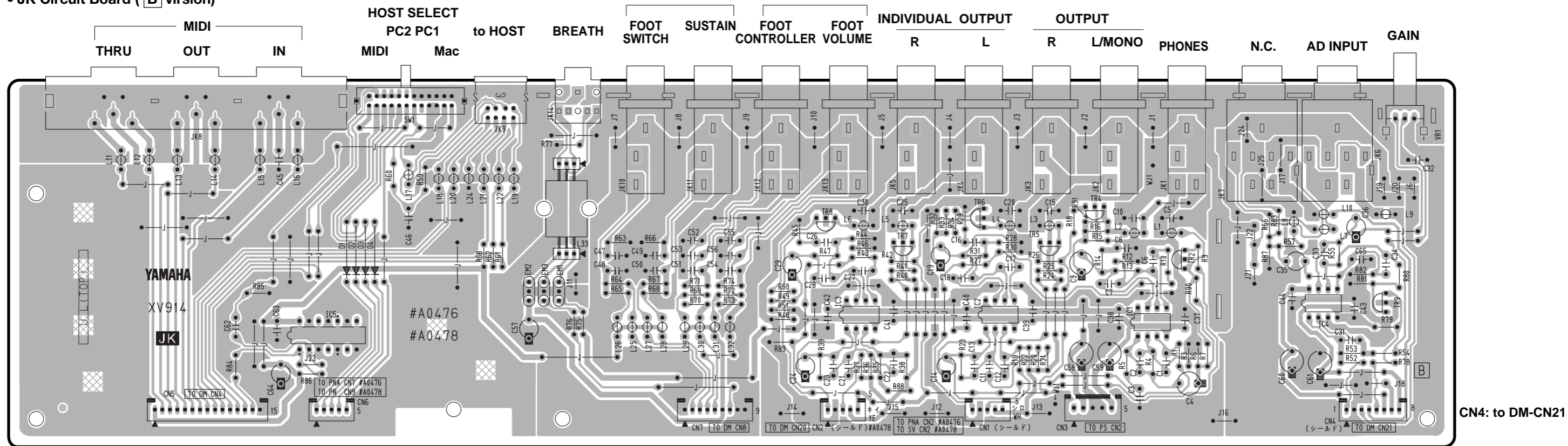
Battery VN103500  
VN103600(Battery holder for VN103500)

- Notice for back-up battery removal  
Push the battery as shows in figure,  
then the battery will pop up.
- Druk de batterij naar beneden zoals  
aangeven in de tekening, de batterij  
springt dan naar voren.



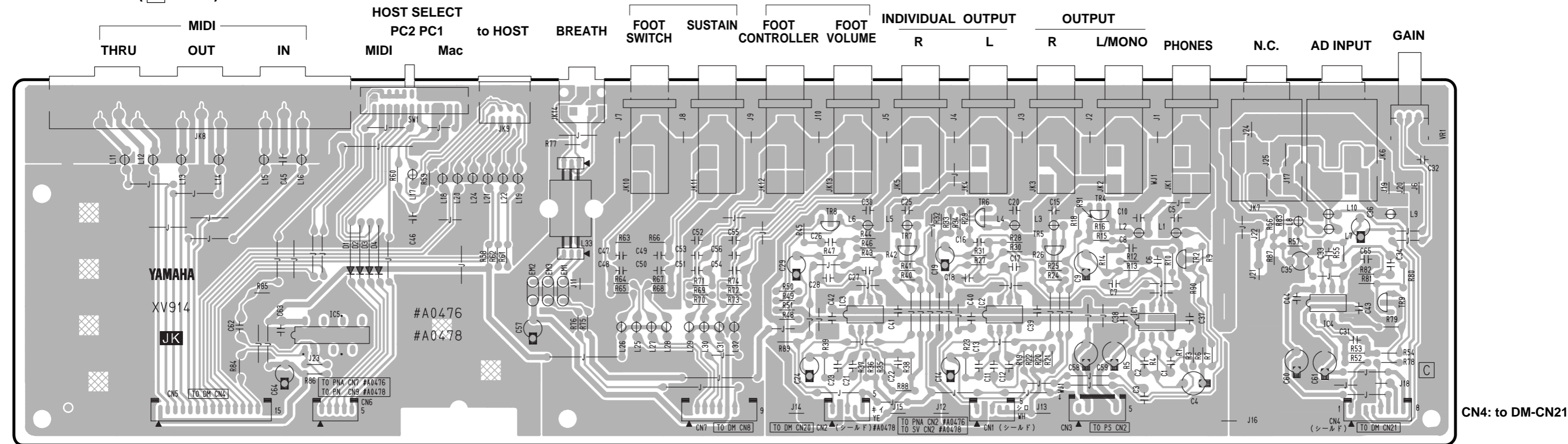


• JK Circuit Board ( **B** version)



CN5: to DM-CN4    CN6: to PN-CN9    CN7: to DM-CN8    CN2: to DM-CN20    CN1: to SV-CN2    CN3: to PS-CN2    Component side

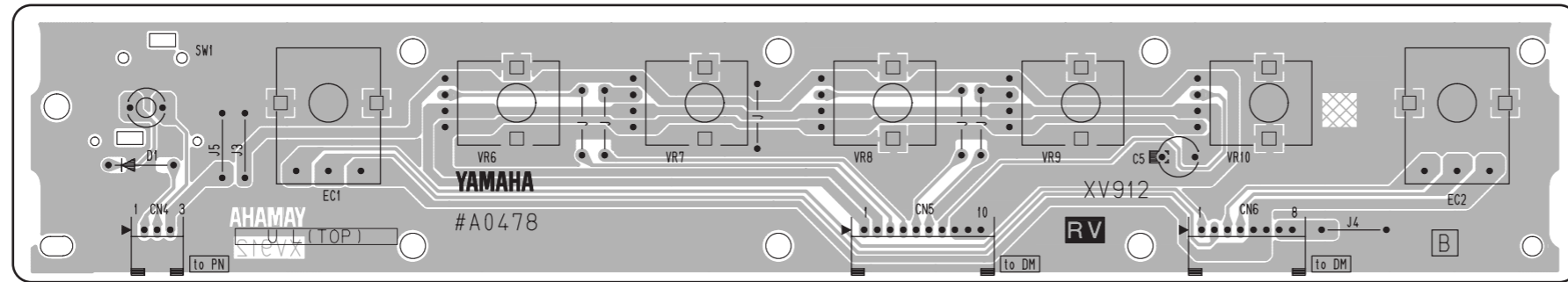
• JK Circuit Board ( **C** version)



CN5: to DM-CN4    CN6: to PN-CN9    CN7: to DM-CN8    CN2: to DM-CN20    CN1: to SV-CN2    CN3: to PS-CN2    Component side

JK: 2NA-V357700

• RV Circuit Board



CN4: to PN-CN8

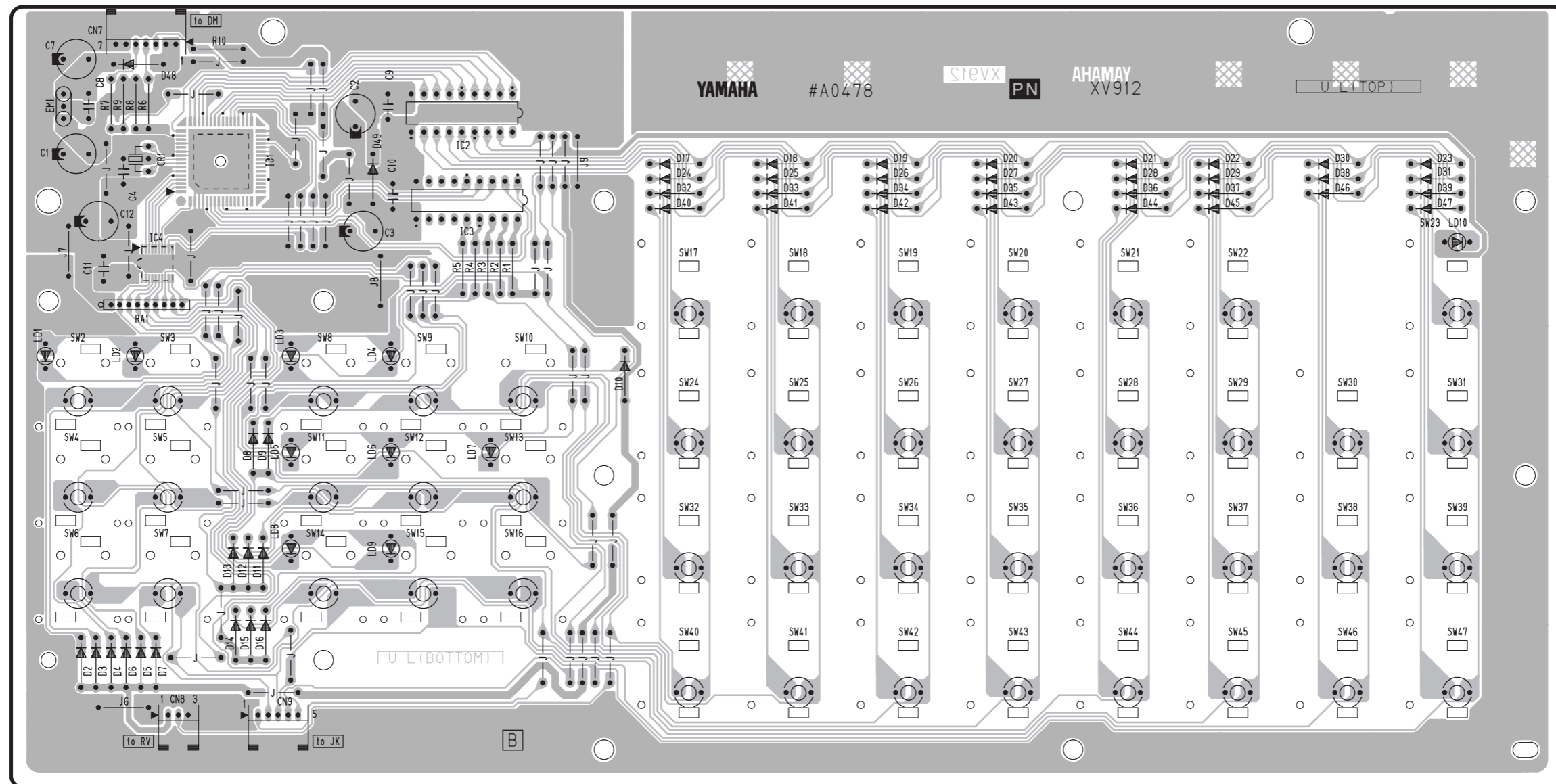
CN5: to DM-CN6

CN6: to DM-CN14

Component side

• PN Circuit Board

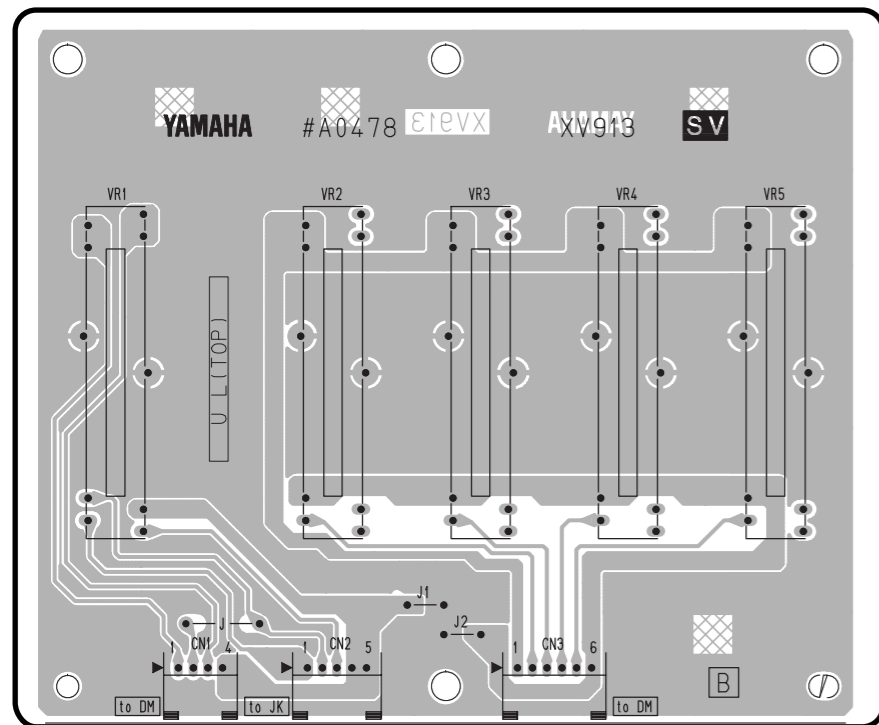
CN7: to DM-CN17



CN8: to RV-CN4 CN9: to JK-CN6

Component side

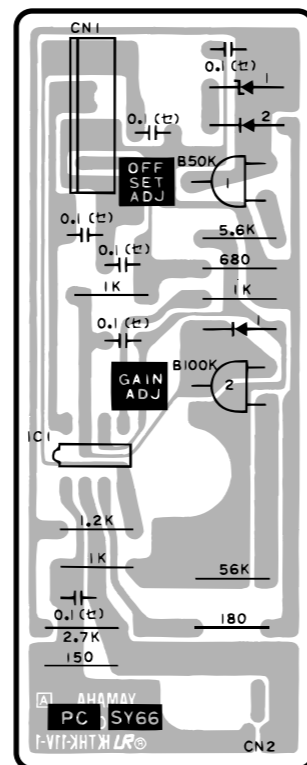
• SV Circuit Board



CN1: to DM-CN19 CN2: to JK-CN1 CN3: to DM-CN7

Component side

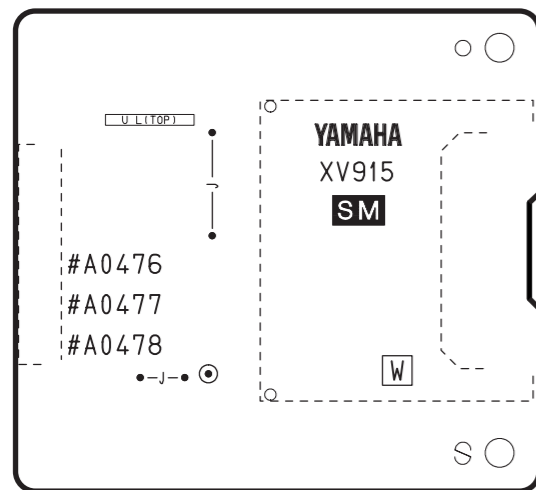
• PC Circuit Board



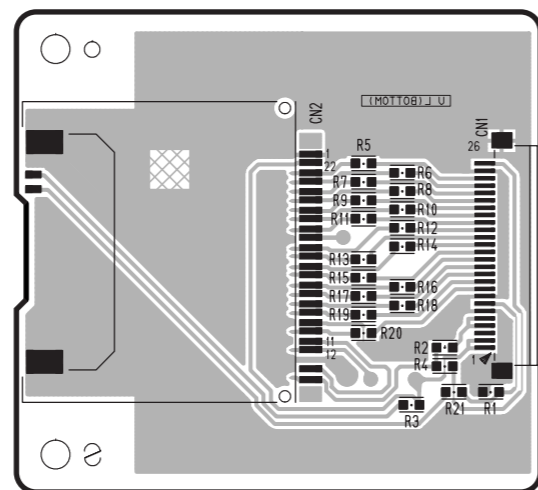
Component side

• SM Circuit Board

CN1: to DM-CN22



Component side



Pattern side

SV: 2NA-V357680  
SM: 2NA-V357710

■ TEST PROGRAM

Test No.	Test Item	Test Conditions, Judgment Criteria, etc.
T1	RAM READ/WRITE	OK/NG, (MAIN SRAM/WAVE DRAM)
T2	RAM BATTERY	OK/NG, 2.7V or more, Less than 3.5V
T3	WAVE ROM	OK/NG
T4	LCD	ON/OFF blinking alternately
T5	PANEL SWITCH/LED	OK/NG
T6	ENCODER	OK; 0 to +127(0) to -127
T7	KEYBOARD	OK, KEY CODE/KEY TOUCH
T8	KNOB A-2	OK/NG, 64-127-0-64
T9	SLIDER 1-4	OK/NG, 0-127-0
T12	CONTROLLER	OK/NG, 64-127-0-64 (PB), 0-127-0 (MW), 0-107-0 (AT)
T13	FOOT CONTROL SWITCH	OK, 0-127-0
T14	BREATH CONTROLLER	OK/NG, 127-0-127
T15	CARD	OK/NG
T16	MIDI IN/OUT/THRU	OK/NG THRU Confirmation
T17	HOST SELECT	OK/NG
T18	TO HOST	OK/NG
T19	1 kHz OUTPUT L	OUTPUT(L): +6.0 ± 2 dBm; OUTPUT(R): Less than -72.0 dBm (10 kohm load) INDIV(1): +6.0 ± 2 dBm; INDIV(2): Less than -72.0 dBm (10 kohm load) PHONES(L): +5.0 ± 2 dBm; PHONES(R): Less than -64.0 dBm (33 ohm load)
T20	1 kHz OUTPUT R	OUTPUT(L): Less than -72.0 dBm (10 kohm load); OUTPUT(R): +6.0 ± 2 dBm INDIV(1): Less than -72.0 dBm (10 kohm load); INDIV(2): +6.0 ± 2 dBm PHONES(L): Less than -64.0 dBm (33 ohm load); PHONES(R): +5.0 ± 2 dBm
T21	A/D LEVEL, JACK	OK
T22	A/D -> D/A	OUTPUT (L, R): +15.0 ± 2 dBm (Line) (10 kohm)
T23	PLUG- IN1	OUTPUT (L, R): +11.5 ± 2 dBm (10 kohm)
T24	PLUG- IN2	OUTPUT (L, R): +11.5 ± 2 dBm (10 kohm)
T25	mLAN	OK/NG
T26	FACTORY SET	OK/NG Initialized state
T27	SWP CH	1 kHz, sine wave
T28	EXIT (NOISE LEVEL)	OUTPUT (L, R): Less than -82.0 dBm (10 kohm load) PHONES (L, R): Less than -85.0 dBm (33 ohm load)

Measuring instruments: frequency counter, oscilloscope, AC voltmeter (JIS-C curve type), distortion meter (with flat filter), keyboard amplifier, etc.  
Jigs: MIDI cable, specially designed expansion board, etc.