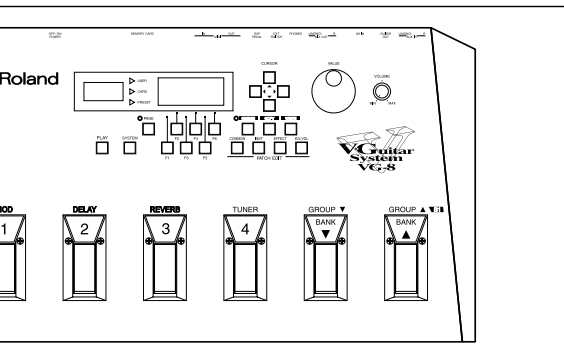


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.....	21, 22

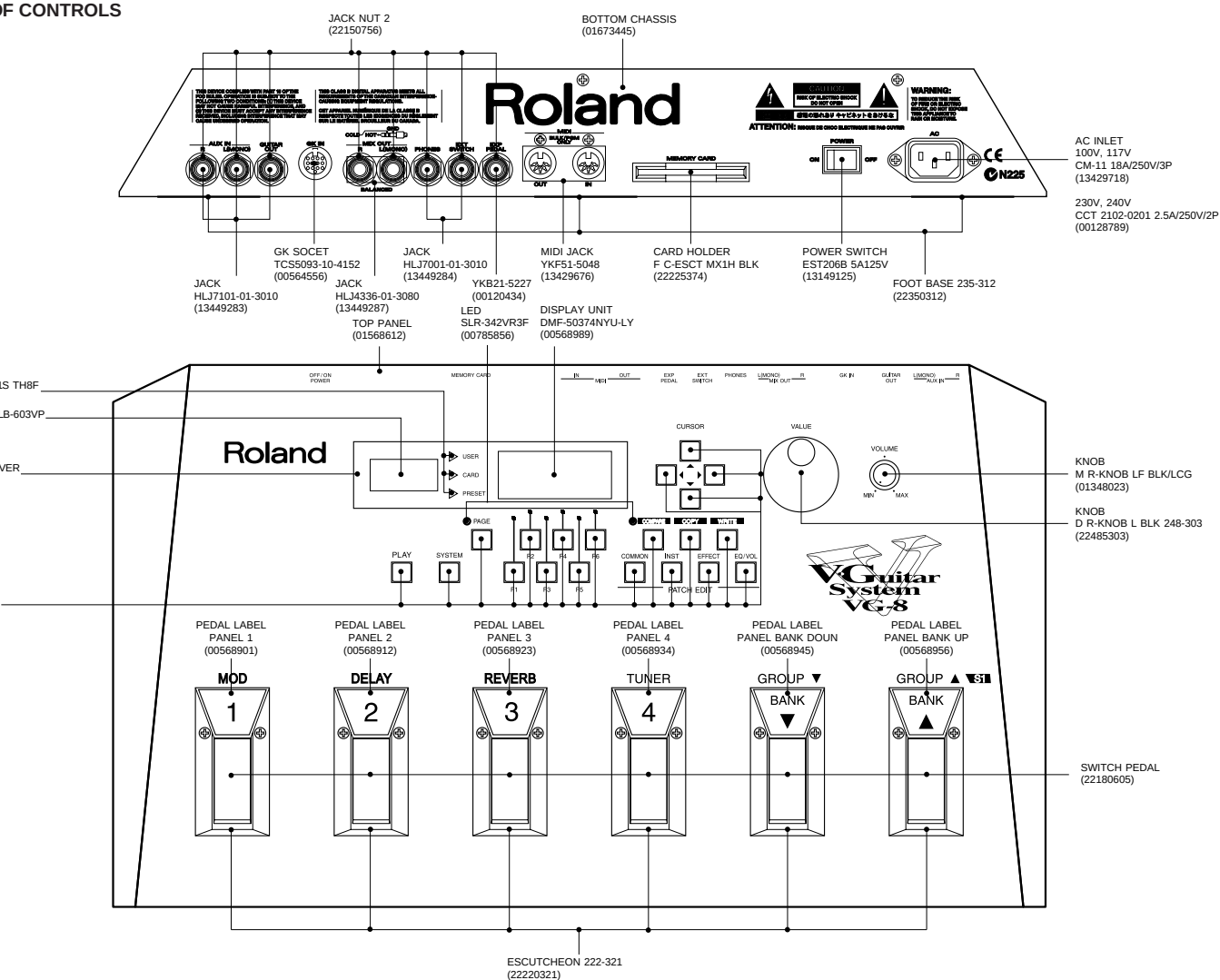


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SPECIFICATIONS

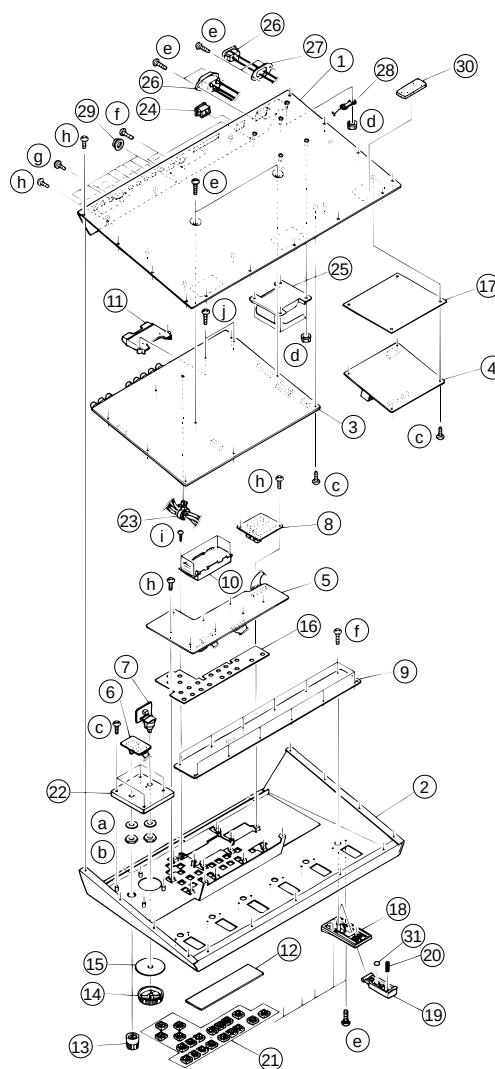
●Internal Memory	System Setup	: 1
	: Patches	: 160 Preset Patches, 64 User Patches
●Memory Card(M-512E)	System Setup	: 1
	: Patches	: 64 Patches
●Effects	Moduration, Delay, Reverb, Equalizer	
●Output		
[MIX OUT]	Normal Output Level	: -10dBm(at Balanced use), -16dBm(at Unbalanced use)
	Output Impedance	: 600 Ohm(at Balanced use), 300 Ohm(at Unbalanced use)
	Output Noise Level	: Less than -84dBm (0dBm=0.775Vrms)
[GUITAR OUT]	Normal Output Level	: -20dBm
	Output Impedance	: 2k Ohm
●Display	LED	: 7segments, 3lines(LED)
	LCD	: 160 x 64 Dots(backlight)
●Power Supply	AC100V, 117V, 230V, 240V	
●Current Draw	230mA	
●Demensions	19-7/8(W) x 11-5/8(D) x 3(H)inches	
	504(W) x 293(D) x 76(H)mm	
●Weight	101lbs6oz / 4.7kg	
●Accessories	Owner's Manual Set(Japanese)	: PNo.71128356
	Owner's Manual Set(English)	: PNo.71129578
	AC Cord 100V	: PNo.23495112
	AC Cord 117V	: PNo.13499109
	AC Cord 230V	: PNo.13499221
	AC Cord 230V E	: PNo.13499221
	AC Cord 240V A	: PNo.13499222
	EURO Converter PLUG ECP01-5A(230VE ONLY)	: PNo.00905234
	GK Connecting Cable (C-13A :5m)	: PNo.00349067
●Options	Synthesizer Driver GK-2A	
	GK Connecting Cable (C-13B :10m)	

OF CONTROLS

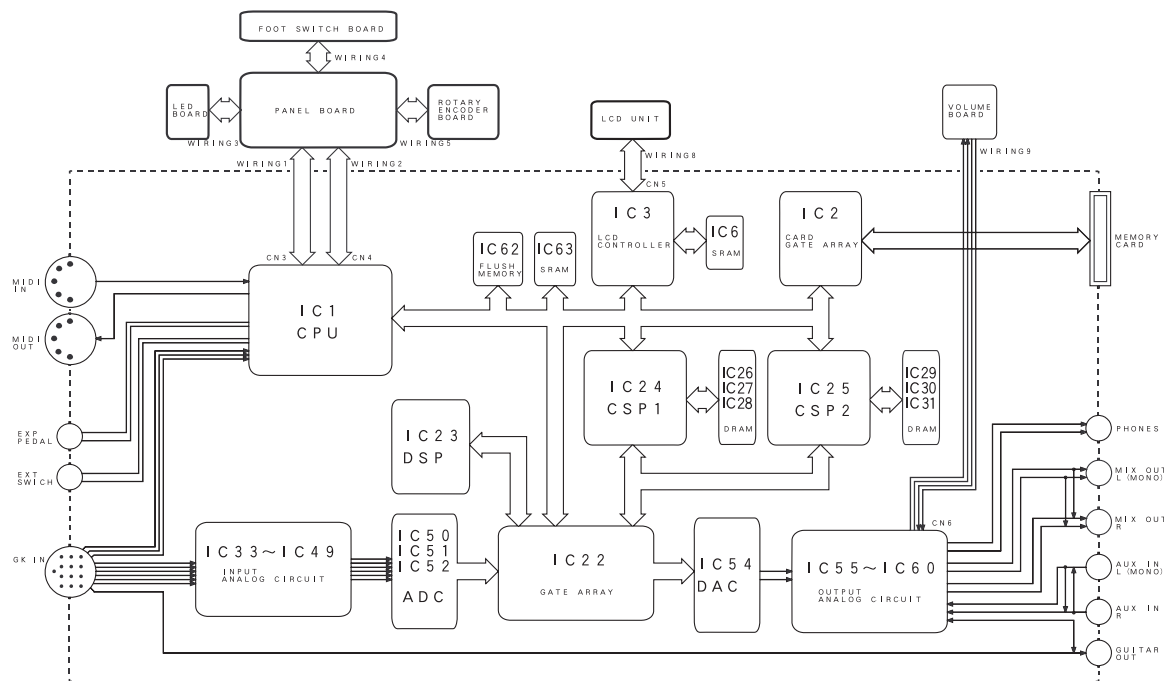


PARTS]		
①	PART No.	PART NAME
①	01673445	Bottom Chassis
②	01568612	Top Panel
③	70450045	Main Board Assy (PCB 00568278)
④	70451690	Power Board Assy (PCB 00568289)
⑤	70450023	Panel Board Assy (PCB 00567712)
⑥	71128389	R.Encoder Board Assy (PCB 00568201)
⑦	70451678	Volume Board Assy (PCB 00568234)
⑧	70451656	LED Board Assy (PCB 00568189)
⑨	70451689	Foot SW Board Assy (PCB 00568256)
⑩	00568989	DMF-50374NYU-LY
⑪	22225374	F C-ESCT MX1H BLK (Card Holder)
⑫	00568889	Display Cover
⑬	01348023	M R-KNOB LF BLK/LCG (Volume Knob)
⑭	22485303	D R-KNOB L BLK 248-303 (Rotary Encoder Knob)
⑮	00784534	Pot Dust Cover
⑯	00677412	SW Cover
⑰	00677401	Insulating Sheet
⑱	22220321	Escutcheon 222-321
⑲	22180605	Switch Pedal
⑳	22170103	Support Spring (for Switch Pedal)
㉑	00568867	Key Top 6AAPA0187A
㉒	00784523	VR Holder
㉓	00671445	Clip Clamp (Wiring Holder)
㉔	13149125	Power Switch EST206B 5A/125V
㉕	22453551N0	TRANSFORMER 100V
㉖	22453552C0	TRANSFORMER 120V
㉗	22453553D0	TRANSFORMER 230V/240V
㉘	13429718	CM-11 18A/250V/3P
㉙	00128789	AC Inlet(100V,117V)
㉚		CCT 2102-0201 2.5A/250V/2P
㉛		AC Inlet(230V,240VE,240VA)
㉜	00231434	Inlet Holder
㉝	00673934	WIRING 11 (AC Inlet <-> Chassis)
㉞	22150756	Jack Nut 2
㉟	22350312	Base 235-312
㊱	40129301	Rubber Foot #35 (for Switch Pedal)

CREW]		
Ⓐ	17048154	M9 Washer ZC
Ⓑ	17048153	M9 Nut Thin Type ZC
Ⓒ	40012512	3x8mm Binding Head S-tite ZC
Ⓓ	40011745	M4 Spring Nut ZC
Ⓔ	40011101	3x8mm Binding Head B-lite BZC
Ⓕ	40011312	3x8mm Binding Head P-lite BZC
Ⓖ	40011302	3x8mm Single SEMS BZC
Ⓗ	40011090	3x8mm Binding Head B-lite BZC
Ⓘ	40011278	3x8mm Binding Head P-lite ZC
Ⓙ	17048155	2x4mm Binding Head B-tite ZC



DIAGRAM



DESCRIPTION

Signals induced to GK-2A pickup are level
the input analog circuit and fed to the A/D
(G 50-52) which outputs the digital equivalents
ray IC22. From IC22, waveform data is sent
4 and CSP2 IC25 where waveform data is
desired. From IC22, pitch and envelope data
SP IC23.
d 25 return the processed data back to gate
om which data are sent to DAC IC54 and
analog signal output circuits.

The CPU IC1 directs CSP1 and CSP2 and performs other
controls on LCD, LED, switches, memory card, VALUE
dial, expression pedal, and the like.

System/patch parameters are stored in the battery backed
up SRAM IC63.

Flush memory IC62 stores main program and preset
patches. These data are updated upon performing MIDI
revision procedure.



CONSIDERATIONS ON PARTS ORDERING

When ordering any parts listed in the parts list, please specify the following items in the order sheet.

QTY	PART NUMBER	DESCRIPTION	MODEL NUMBER
Ex.	10	Z2570241	Draw Key
	15	Z247017300	Knob (orange)
			DAC-15D

Be sure to completely fill the above items with correct number and description will result in delayed or undelivered replacement.

Environment carefully before through the old lithium battery away when e.

REB -----> Rotary Encoder Board Assy. PWB -----> Power Board Assy.

VRB -----> Volume Board Assy.

FSB -----> Foot Switch Board Assy.

ev (initial parts)

2

BLK (Card Holder)

21

r Switch Pedal)

for Switch Pedal)

87A (Power Switch)

248-303 (Rotary Encoder)

VC CS (Volume)

/

Power Switch

t

GK IN

MIDI IN/OUT

Dual Stereo Jack

Monaural Jack

Stereo Jack

Stereo Jack

AC Inlet(100V/117V)

AC Inlet(230V/240V)

JK4

JK1

JK9

JK5,JK6,JK7

JK2,JK8

JK4

3P

5A/250V/2P

Y

LCD UNIT

(PCB 00568278)

*** will be supplied from service center.

ITEM VERSION UP" when you use for "VG-8EX"

Assy

ay

ay

(PCB 00567712)

(PCB 00568189)

(PCB 00568201)

(PCB 00568234)

(PCB 00568256)

(PCB 00568289)

does not include the Lithium Battery. Because lithium battery does not use res. Order proper the lithium battery separately if necessary.

thium Battery

thium Battery

IC

01122512

uPD70433GD-12-58B

CPU

15239222

TC140G12AF-0061

Gate Array

00900812

RA03-002(TC170C1104F-002)

Custom DSP

00564523

TMP320P16PGL

Custom DSP

15229848

uPD65005GF-062-3B8

Card Gate Array

15199944

SED133SF0B

LCD Controller

01670201

28F400B5-660

4M Flash Memory (Programed,only for VG-8EX)

01123289

SRM02056SLMX55

256K SRAM

00128890

HY6284ALJ-70

64K SRAM

01342990

LH64256CK-50

1M DRAM

00343556

LC78869A-TRM

A/D Converter

00232567

PCM68AU-1

D/A Converter

15289105

uPC4570G2

Dual Operational Amplifier

15189261

MS218AFP-600E

Dual Operational Amplifier

00349023

NJM082M

Dual Operational Amplifier

15289123

MS1953AFP-600C

Reset Controller

00673812

ICL7605CBA

D/C-C Converter

15259109

TC4052BP

Triple 2ch Multiplexer

15259110

TC4066BF

Quad Analog Switch

00564545

TC74VHC04F

Hex Inverter

00567534

TC74VHC138F

Decoder

00328845

TC74VHC245F

Octal Bus Transceiver

00564534

TC74VHC574F

Octal D-Type Flip-Flop

15259708T0

TC74HC08AF

Quad 2-Input AND Gate

15259720T0

TC74HC14AF

Dual D-Type Flip-Flop

15259821T0

TC74HC514AF

Octal D-Type Flip-Flop

15259869T0

TC74HC4075AF

Triple 3-Input OR Gate

15249116T0

TC7W00F-TE12L

Dual 2-Input NAND Gate

00232845

TC7W14F-TE12L

Triple Schmitt Inverter

00671878

TC7SH86F-TE8SL

Single EX-OR Gate

15289125

PC410

Photo Coupler

15199173

MS291P

Switching Regulator IC

15199294

AN7705F

+5V Voltage Regulator

00569023

AN7807F

+7V Voltage Regulator

00569034

AN7907F

-7V Voltage Regulator

TRANSISTOR

01568890

2SA1931

15309101

2SA1037KR-T146

15311011

2SC142KR-T146

15329507

DTA114EK-T146

15329503

DTA124EK-T146

1532951000

DT1C44EK-T146

15329536

RN144Z-TE8BL

15149134

TD62785P

00019112

TD62381P

Transistor Array

Transistor Array

DIODE

15330126

RB471E-T149

Shottky Diode

15309178

RK-33

Shottky Diode

15330105

DAN202K-T146

Diode Array

15330108

DA204K-T146

Diode Array

01568901

GBPC102

Bridge Diode

15309172

SAVB20-40115 3.9A/200V

Bridge Diode

00568029

SEL52215 TH8F

LED(RED)

00789856

SLK342VCR3P

LED(RED)

15029567

LB603VP

7-Segments LED(RED)

D21,D22,D23 on PWB

D24,D25 on PWB

RESISTOR

01120267

RSSX 1/2 0.22 OHMJ

0.22ohm 1/2W

CAPACITOR

00568301

SRG25VB2200

2200uF/25V

00568312

SRG16VB2200

2200uF/16V

00568323

10SA100M

100uF/10V OS-CON

00127301

LLA50VB1

1uF/50V Low Leakage

ROTARY ENCODER

01124478

EC16B24104 L=15

Rotary Encoder

POTENTIOMETER

13289202

RK14K12D 10K8

Volume

INDUCTOR

12449268

BL02RN2-R6Z72-F

EMI Filter

13529105M1

DD3310-5SD2235

EMI Filter

12449272

HP-011Z

Choke Coil

L206 on PWB

L207 on PWB

CRYSTAL

01568889

MA-406 8MHz TE24

X2 on MB

00900192

MA-406 24.576MHz TE24

X1 on MB

01342145

MA-406 25MHz TE24

X3 on MB

00564590

SG-531PH 35MHz

Oscillator

15299218

SG-531YH 65.152MHz

Oscillator

X5 on MB

CONNECTOR

13369663

S3B-PH-K-S

CN3 on REB

13369504

B8B-PH-K-S

CN6 on MB

13369564

BL2B-PH-K-S

CN4 on MB

13369663

BL4B-PH-K-S

CN3 on MB

13369562

B15B-PH-K-S

CN5 on MB

13369667

S7B-PH-K-S

CN4 on PNB

13369668

S8B-PH-K-S

CN8 on VRB

13369675

S15B-PH-K-S

CN5 on LDB

13369593

B5B-XH-A

CN2 on MB

13369556

B8B-XH-A

CN7 on MB

13429233

75S085A

CN1 on MB

13439439

5669-06A1

CN201 on PWB

Card Connector

WIRING

00568167

WIRING 1

CN1 on PNB

00568178

WIRING 2

CN2 on PNB

00568190

WIRING 3

CN2 on PNB

00568267

WIRING 4

CN101 on FSB

00568223

WIRING 5

CN7 on PNB

00568334

WIRING 6

CN202 on PWB

00568345

WIRING 7

CN203 on PWB

00568590

WIRING 8

LCD <-> MB

00569012

WIRING 9

VRB <-> MB

00673912

WIRING 10

AC Inlet <-> AC Switch

00673934

WIRING 11

AC Inlet <-> Chassis

TRANSFORMER

Δ 22435551N0

TRANSFORMER 100V

Δ 22435552C0

TRANSFORMER 120V

Δ 22435553D0

TRANSFORMER 230V/240V

BATTERY

00238990

CR2032

Lithium Battery

SCREW

40011090

3x6mm Binding Head B-size B2C

40011101

3x6mm Binding Head B-size B2C

40011312

3x6mm Binding Head P-size B2C

40011278

3x6mm Binding Head P-size ZC

40012512

3x6mm Binding Head S-size ZC

17048155

2x4mm Binding Head B-size ZC

40011302

3x6mm Single SEMS B2C

17048153

M9 Nut Thin Type ZC

17048154

M9 Washer ZC

40011745

M4 Spring Nut ZC

(for LCD unit)

MISCELLANEOUS

00568901

Pedal Label(1)

00568912

Pedal Label(2)

00568923

Pedal Label(3)

00568934

Pedal Label(4)

00568945

Pedal Label(BANK DOWN)

00568956

Pedal Label(BANK UP)

22150756

Jack Nut 2

12569420

CR2032 Battery Holder

00677412

SW Cover

00784534

Por Dust Cover

00891423

LED Spacer

00677401

Insulating Sheet

00231434

Inlet Holder

00671445

Clip Clamp (Wiring Holder)

00568356

Heat Sink PR1616-25-PB

17048151

Radiation Sheet 2067A-5051

40016378

Rag Terminal TER61-0171

00673478

Packing Case

00673467

Pad (1set = L,R 2pieces)

00789389

Pad C (top pad)

ACCESSORIES

71128356

Owner's Manual Set Japanese

71129578

Owner's Manual Set English

Δ 22495112

DC-015-301

100V

Δ 13499109

EC-909-306

117V

Δ 13499221

EC-511-307

230V/230V

Δ 13499222

SC-E078-302

240V A

Δ 00950234

EURO CONVERTER PLUG ECPOD-SA (230V ONLY)

00349067

C-13A(SMK)

GR Cable 5m(13P)

OPTIONS

C-13B

GR Cable 10m(13P)

GK-2A

GUITAR PICKUP

est mode, be sure to save the user
on, "Data save and load".

.....(for MIDI test)
.....(for EXP pedal test)
.....(for EXT switch test)
.....(for EXT switch test)
.....(for GK test)
.....(for GK test)
.....(for RAM test)
.....(for GK test)
.....(for LINE test)

est mode
mode
ously pressing [PLAY], [PAGE] and
s, turn power on.
"JIG MODE" screen on which the
number is displayed.
just LCD contrast by using VALUE
ting can be made only while in "JIG

the LCD changes screen to "JIG

screen has three pages: "JIG MENU
" and "JIG MENU 3". Pages can be
sing [PAGE] button.

s "JIG MENU 1" and "JIG MENU 2"
MENU 3" which is invalid while in the

e
power.

- Starting/ending a test, general
 - Starting a test
In a "JIG MENU" screen, press function key ([F1] - [F6]) to select the specified test.
 - Ending the test
Press [SYSTEM] button and the LCD returns back to "JIG MENU" screen.

● After entering the test mode

- [1] LED test
- Purpose:
Test all LEDs by turning them on and off.
 - Test steps:
 1. Press [PAGE] button. "JIG MENU 1" screen will appear.
 2. Press [F1] "LED" and the screen changes to "LED Check".
The screen looks like Fig. 1.



(Fig.1)

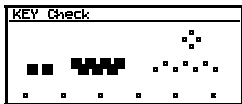
3. Press [F1] "ALL".
Verify that all panel LEDs are lighting.
4. Press [F3] "SEQ".
All LEDs are turned on and off, but only one at a time. [F5] button adjusts the on period of each LED.
Simultaneously lighting 2 or more LEDs show error condition.

If error:
Check IC1, IC2 and CN1 of panel board; and LED board.

- To end the test:
Press [SYSTEM] and the LCD returns to "JIG MENU 1" screen.

- [2] Switch test
- Purpose:
Test panel switches and foot switch.
 - Test steps:
 1. Press [PAGE] button. "JIG MENU 1" screen will appear.
 2. Press [F2] "KEY" and the screen changes to "KEY Check".
The screen shows switch layout.

switches and foot switches one by one.
The area marked with black box
shown in Fig.2.



(Fig.2)

Pressing the button enlarges the box. Make
sure the box appears only for the switch

When the switches are activated and
at the same time, LCD will show
the screen shown in Fig.3.

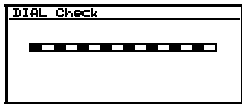


(Fig.3)

Pressing the button on panel board and foot

The screen will automatically return the
to 'JIG MENU 1'.
In the middle, turn VALUE dial.
The screen will appear.

Pressing the button, 'JIG MENU 1' screen
will appear, and the screen changes to
like Fig. 4.



(Fig.4)

3. Turning VALUE dial, verify the movement
direction of black boxes shown in Fig. 4.

CW: right
CCW: left

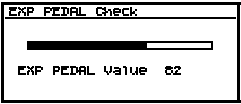
If error:
Check R. ENCODER board and IC11 of main
board.

● To end the test:
Press [SYSTEM] and the LCD will return to "JIG
MENU 1" screen.

[4] EXP pedal test

● Purpose:
Test expression pedal.

● Test steps:
1. Connect EV-5 to EXP PEDAL socket.
2. Press [PAGE]. "JIG MENU 1" screen will
appear.
3. Press [F4] "EXP.PDL" and the screen changes
to "EXP PEDAL Check".
4. Fully swing EV-5. "EXP PEDAL Value" on the
screen (Fig. 5) should read 0 through 127.



(Fig.5)

If error:
Check JK3 and associated components on main
board.

● To end the test:
Press [SYSTEM] and the LCD returns to "JIG
MENU 1" screen.

[5] LCD test

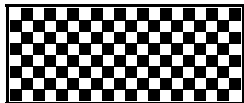
● Purpose:
Test all LCD dots and contrast.

● Test steps:
1. Press [PAGE] button. "JIG MENU 1" screen
will appear.
2. Press [F5] "LCD" and the screen changes to
"LCD Check".
3. Adjust LCD to most convenient contrast by
turning VALUE dial.

"WHITE". Verify that the all screen
ite.
see "If error" below.)

"BLACK". The all dots turn black.
see "If error" below.)

"MOSAIC". LCD shows chekered
shown in Fig.6.
see "If error" below.)



(Fig.6)

"TEST". VRAM (IC6) is tested and
is displayed on the screen.



(Fig.7)

in VALUE dial CW and CCW and
contrast change.
see "If error" below.)

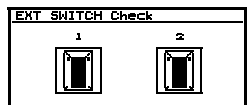
t [F1], [F3] or [F5]: check ICs 3 and
main board.
t [F6]: check IC6 on main board.
Contrast test: check IC19 and
omponents on main board.

st:
[EM] and the LCD returns to "JIG
en.

st
ch.

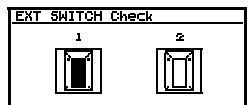
o FS-5Us to EXT SWITCH socket
S-31 cable.
LITY switch on FS-5U toward socket.
E]. "JIG MENU 1" screen will appear.

3. Press [F6] "EXT.SW". The screen changes to
"EXT SWITCH Check" and shows two FS-5Us.
Without pressing FS-5Us, verify that the top of
switches on the screen are black as shown in
Fig. 8.



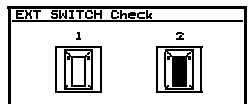
(Fig.8)

4. Press the FS-5U connected to the red plug of
PCS-31 cable and verify that the SW 2 on the
screen is turned white (Fig. 9).



(Fig.9)

5. Press the FS-5U connected to the white plug of
PCS-31 cable and verify that the SW 1 on the
screen is turned white (Fig. 10).



(Fig.10)

If error:
Check JK2 and associated components on main
board.

- To end the test:
Press [SYSTEM] and the LCD returns to "JIG
MENU 1" screen.

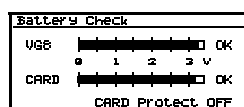
[7] Battery test

- Purpose:
Test the voltage of internal battery and memory
card battery; and write protect switch of the card.
- Test steps:
1. Insert the memory card (w/battery) into
MEMORY CARD slot.

button. "JIG MENU 2" screen

"BATTERY" and the screen
"RAM Check".

shows the battery voltages on the
the test results (OK or NG) as



(Fig.11)

the write protect switch of the
correct message on the screen:
"OFF (ON)".

Check: check BT1, IC18 and
components of main board.

Check the battery and IC2, CN1
components of main board.

Check IC2, CN1 and associated
board.

and the LCD returns to "JIG

DI OUT circuits of VG-8EX

and MIDI OUT of VG-8EX
cable.

button. "JIG MENU 2" screen

and the screen changes to

"",
show the test result.

"OK"
"Check Error"

IC14 and associated
board.

and the LCD returns to "JIG

[9] RAM test

● Purpose:

Test SRAM IC63 and memory card.

● Test steps:

1. Insert the memory card (M-512E) into MEMORY CARD slot.
2. Press [PAGE] button. "JIG MENU 2" screen will appear.
3. Press [F3] "RAM" and the screen changes to "RAM Check".
4. Press [F1] "RAM" to start the test of SRAM (IC63).

The screen will show the test result (Fig. 12):



(Fig.12)

If good: "RAM Check OK"

If no good: "RAM Error XXXX" (XXXX =

address at which error is found)

5. With the write protect switch at OFF, press [F3]

"CARD" to start the test of memory card.

The screen will show the test result (Fig. 13):

If the protect switch is ON, the test won't start
and LCD will display "Protected" for several
seconds.



(Fig.13)

"Card Check OK"

"Card Error XXXX" (XXXX = address
at which error is found)

If error:

RAM Error: check IC63 and associated
components of main board.

Card Error: check IC2 and CN1 and associated
components of main board.

● To end the test:

Press [SYSTEM] and the LCD returns to "JIG
MENU 2" screen.

[10] GK test

● Purpose:

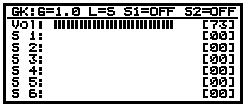
Test GK IN circuit.

● Test steps:

1. Connect the guitar (with GK-2A or GK-2) or GC-10 to GK IN socket through the C-13A cable.

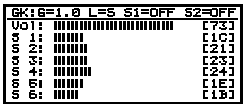
[PAGE] button. "JIG MENU 2" screen

"OK" and the screen changes as shown in Fig. 14.



(Fig.14)

2A, turn [SYNTH VOL] from CCW to CW. Verify that "Vol" bar graph on the screen changes from 00 to 7F. Press [S1] and [S2] on GK-2A and the screen changes to "S1=" and "S2=" on the top line of the screen. Switch between "ON" and "OFF". Press [S1] and [S2] on GK-2A and check level change on each bar graph on the screen (Fig. 15).



(Fig.15)

[F1] will change the input gain either 2.0 or 2.5. The current gain setting is shown on the top line of the screen, e.g. "GK16=1.0". Press [F1] and the screen changes as shown in Fig. 15.

Headphones to PHONES socket. Press [S1] and [S2] on GK-2A and check the output sound. Press [F1] and [F2] on GK-2A and the screen changes to "L=L" (LEFT), "L=R" (RIGHT), "R=L" (LEFT), "R=R" (RIGHT). Press [F1] and [F2] on GK-2A and check the output sound match the output sound on the screen (Fig. 16).

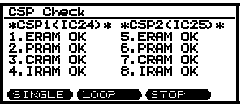
Press [F1] and [F2] on GK-2A and check the output sound match the output sound on the screen (Fig. 16).

Press [F1] and [F2] on GK-2A and check the output sound match the output sound on the screen (Fig. 16).

[11] CSP test

● Purpose:
Test CSP1 (IC24) and CSP2 (IC25).

● Test steps:
1. Press [PAGE] button. "JIG MENU 2" screen will appear.
2. Press [F5] "CSP".
3. Press [F1] "SINGLE" and the following memories will be test in sequence: CSP1 external memories (IC26, IC27, IC28); CSP1 internal memory; CSP2 external memories (IC29, IC30, IC31); CSP2 internal memory. The screen shows the results as shown in Fig. 16.



"OK": good, otherwise error (see If error, below).

(Fig.16)

Note:
Pressing [F3] "LOOP" performs CSP test 100 times.
The number of tests is indicated by "COUNT" on the top line of the screen (Fig. 17). COUNT will stop increment as the test stops upon occurrence of error.



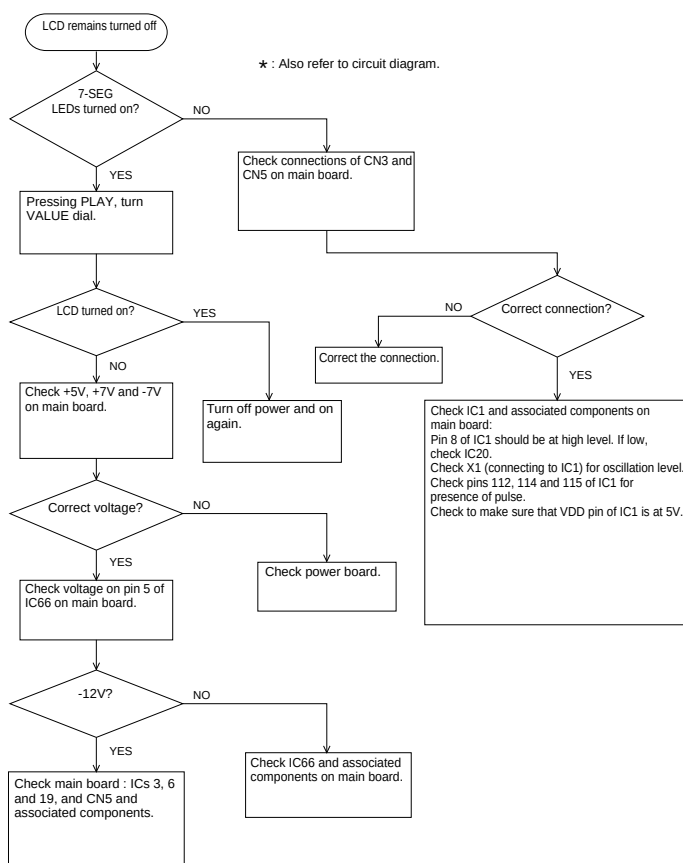
(Fig.17)

If error:
CSP1 ERAM: check IC24, IC26, IC27 and IC28 and associated components on main board.
CSP1 PRAM, CRAM and IRAM: check IC24 of main board.
CSP2 ERAM: check IC25, IC29, IC30 and IC31 and associated components on main board.
CSP2 PRAM, CRAM, IRAM: check IC25 of main board.

● To end the test:
Press [SYSTEM] and the LCD returns to "JIG MENU 2" screen.

TROUBLESHOOTING

LOGIC TREE A



s using oscilloscope.
IC24) (sinewave) --> CSP2
DAC (IC54) -> output analog

EO plug into both MIX OUT
OLUME FCW.
tton. "JIG MENU 2" screen

erve waveforms on TIP and
g inserted into MIX OUT L.
vel should be at approx. 5.2
phase to the other.
MIX OUT R.
lly CCW and verify that the

C24, IC25 and IC54 on main

and the LCD returns to "JIG

DATA SAVE AND LOAD

1. Saving data onto backup memory card (M-512E)

(a) Saving user patches (UA11-UB84) and system data to memory card

- (1) Insert a memory card into MEMORY CARD slot on VG-8EX
- (2) Set the write protect switch on the card to off.
- (3) Turn power on and press [SYSTEM] button.
- (4) Press [F6] "CARD" to enter "Card Transfer" mode.
- (5) Using [CURSOR] buttons, select "Function".
- Using [VALUE] dial, select "VG-8EX -> CARD".
- (6) Using [CURSOR] buttons, select "Target".
- Using [VALUE] dial, select "Patch&System".
- (7) Press [F1] "XFER". LCD will show:
"Are You Sure?" or "Format This Card. Are You Sure?" (If not a VG-8EX format card)
- (8) Press [F1] "OK". LCD will show "Completed".
- (9) Set the write protect switch on the card to on and pull out the card.

(b) Loading user patches (UA11-UB84) and system data back to VG-8EX memory

- (1) Insert the memory card into MEMORY CARD slot on VG-8EX.
- (2) Turn power on and press [SYSTEM] button.
- (3) Press [F6] "CARD" to enter "Card Transfer" mode.
- (4) Using [CURSOR] buttons, select "Function".
- Using [VALUE] dial, select "CARD -> VG-8EX".
- (5) Using [CURSOR] buttons, select "Target".
- Using [VALUE] dial, select "Patch&System".
- (6) Press [F1] "XFER". LCD will show "Are You Sure?".
- (7) Press [F1] "OK". LCD will show "Completed".

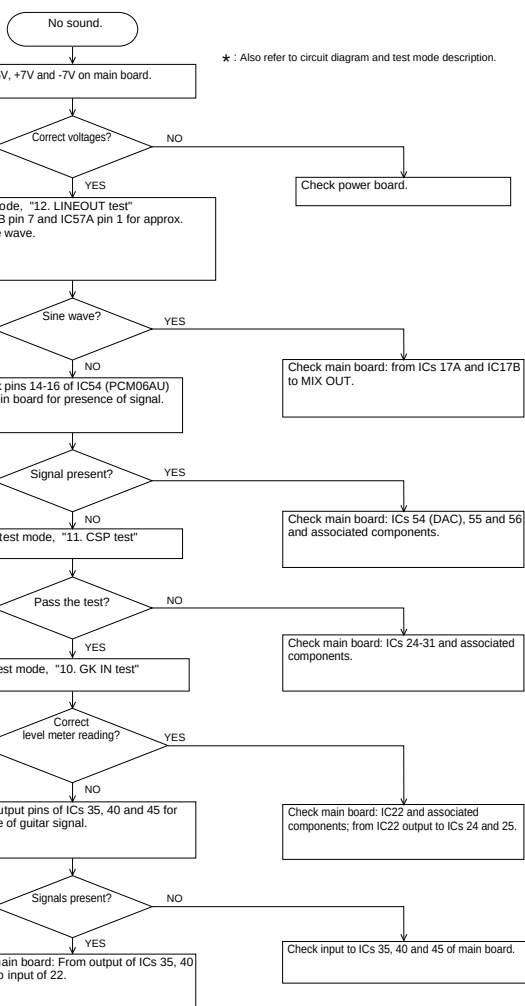
(8) Pull out the card.

2. Creating backup copy using bulk dump feature

(a) Transferring user patches (UA11-UB84) and system data from VG-8EX to a sequencer

Note: Use a sequencer having exclusive information receive/record capability.

- (1) Hook up VG-8EX MIDI OUT socket and sequencer MIDI IN socket through the MIDI cable.
- (2) <VG-8EX>
Turn on power and press [SYSTEM] button.
- (3) <VG-8EX>
Press [F3] "MIDI" to enter "System MIDI" mode.
- (4) <VG-8EX>
Using [CURSOR] buttons, select "Bulk Dump".
Using [VALUE] dial, select "Patch&System".

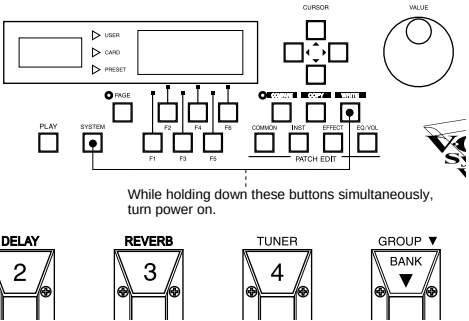


SYSTEM VERSION UP

Important Notice !!
To perform SYSTEM VERSION UP in SERVICE MODE,
a VG8S-1 is necessary as a key.
But any VG8S-1 (even a used one) can be used for this
purpose.

- Tools required
MIDI sequencer (SMF-compatible)
MIDI cable
VG-8EX VER.UP. DISK (17048923)
VG8S-1

- (1) Connect MIDI OUT socket of VG-8EX to MIDI IN
socket of the sequencer through the MIDI cable.
- (2) Insert VG8S-1 (as a key) into the VG-8EX card
slot. While holding down the [SYSTEM] and
[WRITE] buttons, turn the power on.
- (3) The LCD will show "System expand. Are You Sure?".
Press [F3] button and select "MIDI".
- (4) Insert VG-8EX VER.UP DISK into the sequencer
disk slot. Play VG1.MID, VG2.MID and VG3.MID
in that order.
- (5) When all the received system data are
recognized, the LCD will show "Completed!
Please power off and remove card."
- (6) While holding down the [PLAY] and [SYSTEM]
buttons, turn the power on. Verify the VG-8EX
version number.
Now the system is revised.



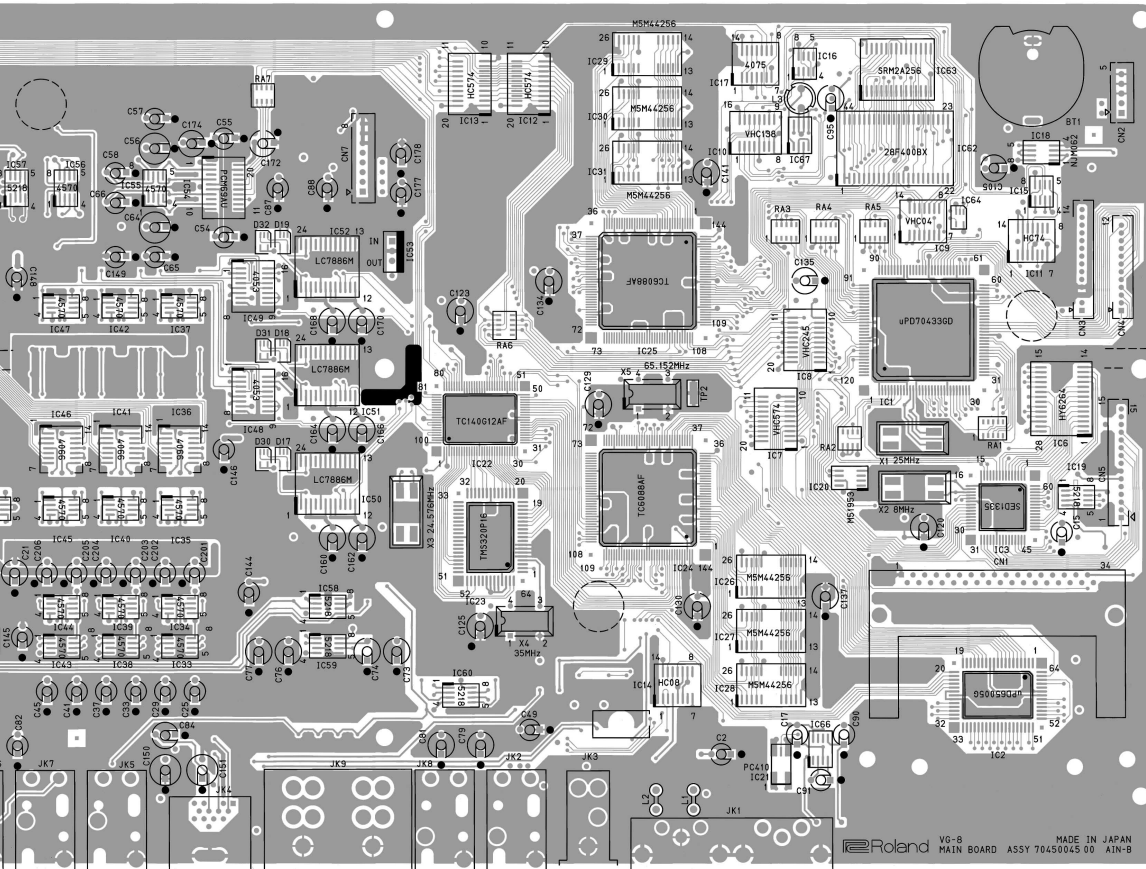
IDENTIFYING SYSTEM REVISION NUMBER

While holding down both [PLAY] and [SYSTEM]
buttons, turn power on. The LCD will show the system
revision number.

Roland VG-8EX
system version **--

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

BOARD ASS'Y
70450045
(0568278)



View from component side

For Nordic Countries

Apparatus containing Lithium batteries

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskitning må kun ske med batteri af samme fabrikat og type. Lavér det brugte batteri tilbage til leverandøren.

ADVARSEL!

Lithiumbatteri - Eksplosionsfare. Ved utskiftning benyttes kun batteri som anbefalt av apparatfabrikanten. Brukt batteri returneres apparatleverandøren.

VARNING!

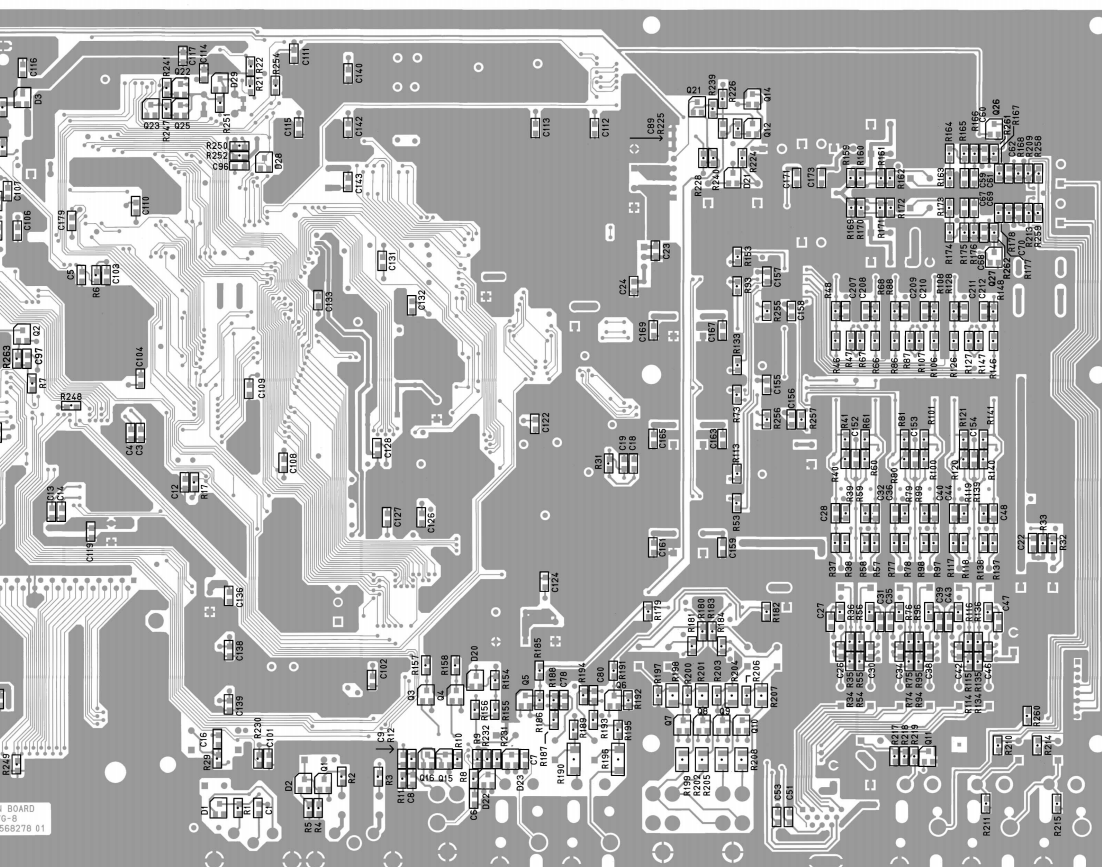
Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparatillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

VAROITUS!

Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

ARD ASS'Y
0045
(78)



View from foil side

For Nordic Countries

Apparatus containing Lithium batteries

ADVARSEL!

Lithiumbatteri - Eksplosjonsfare ved feilagtig håndtering. Utskifting må kun ske med batteri af samme fabrikat og type. Løst batteri returneres til leverandoren.

ADVARSEL!

Lithiumbatteri - Eksplosjonsfare. Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikanten. Brukt batteri returneres apparatleverandøren.

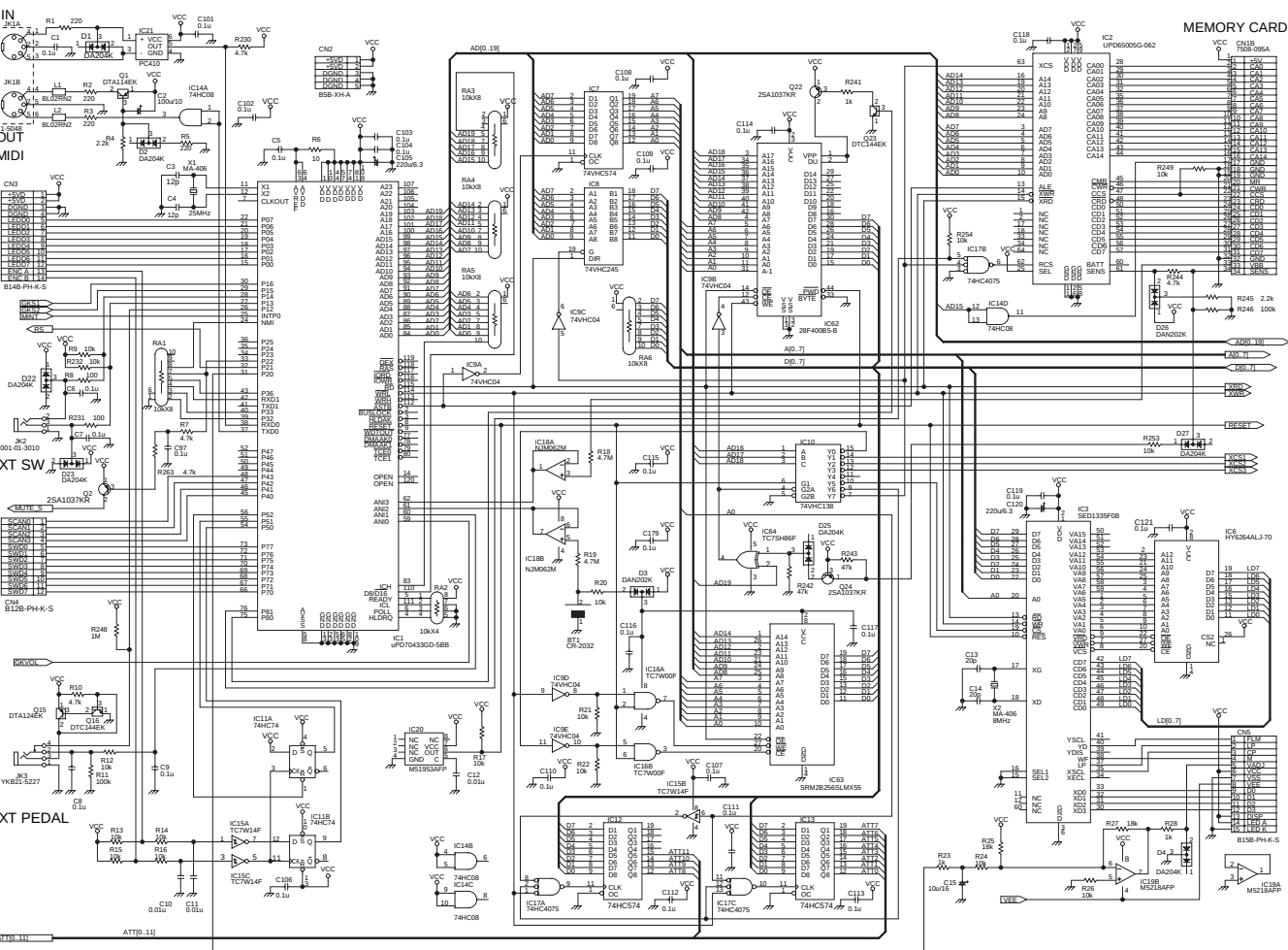
VARNING!

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparatillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

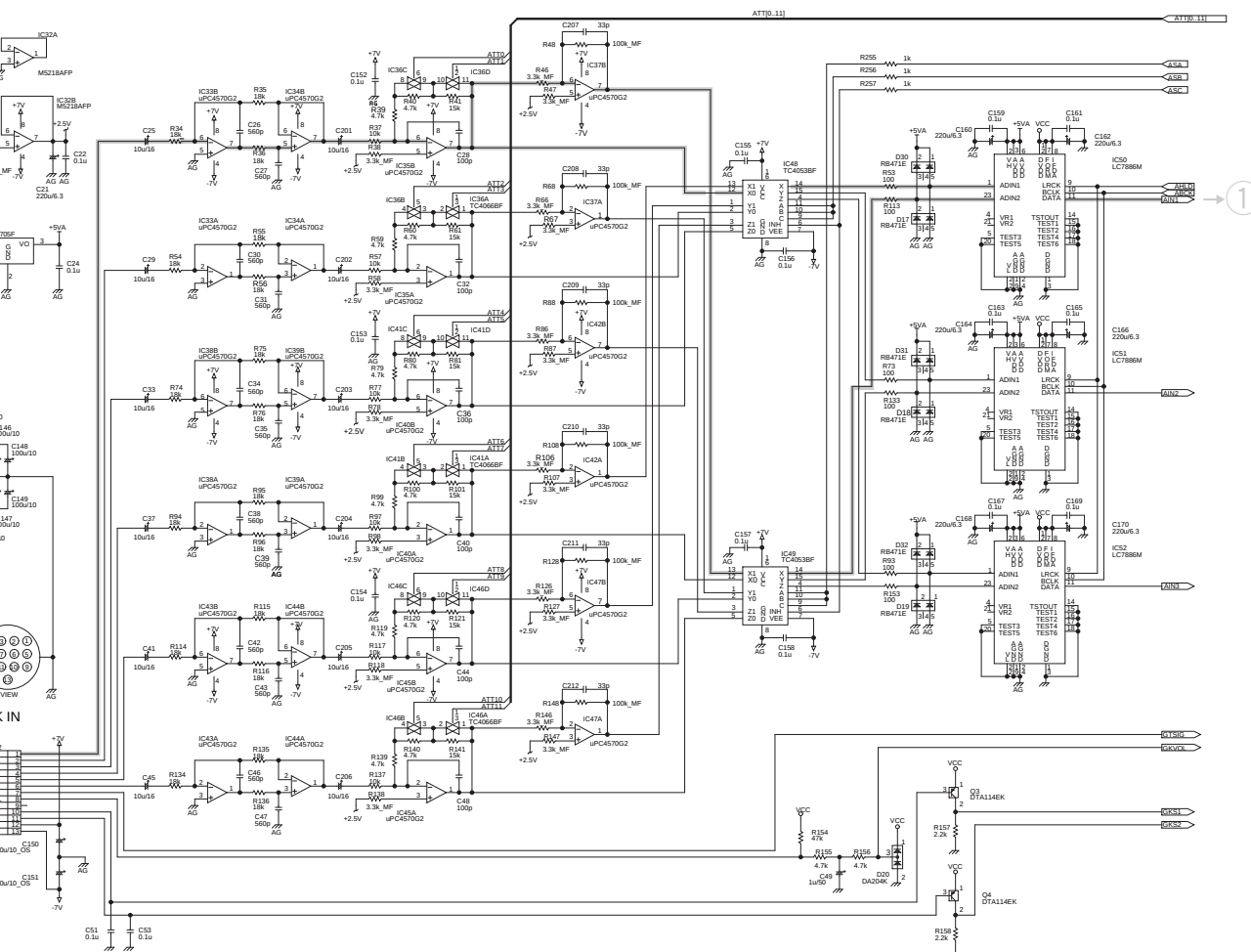
VAROITUS!

Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

BOARD ASS'Y (CPU BLOCK)



ARD ASS'Y (ADC BLOCK)



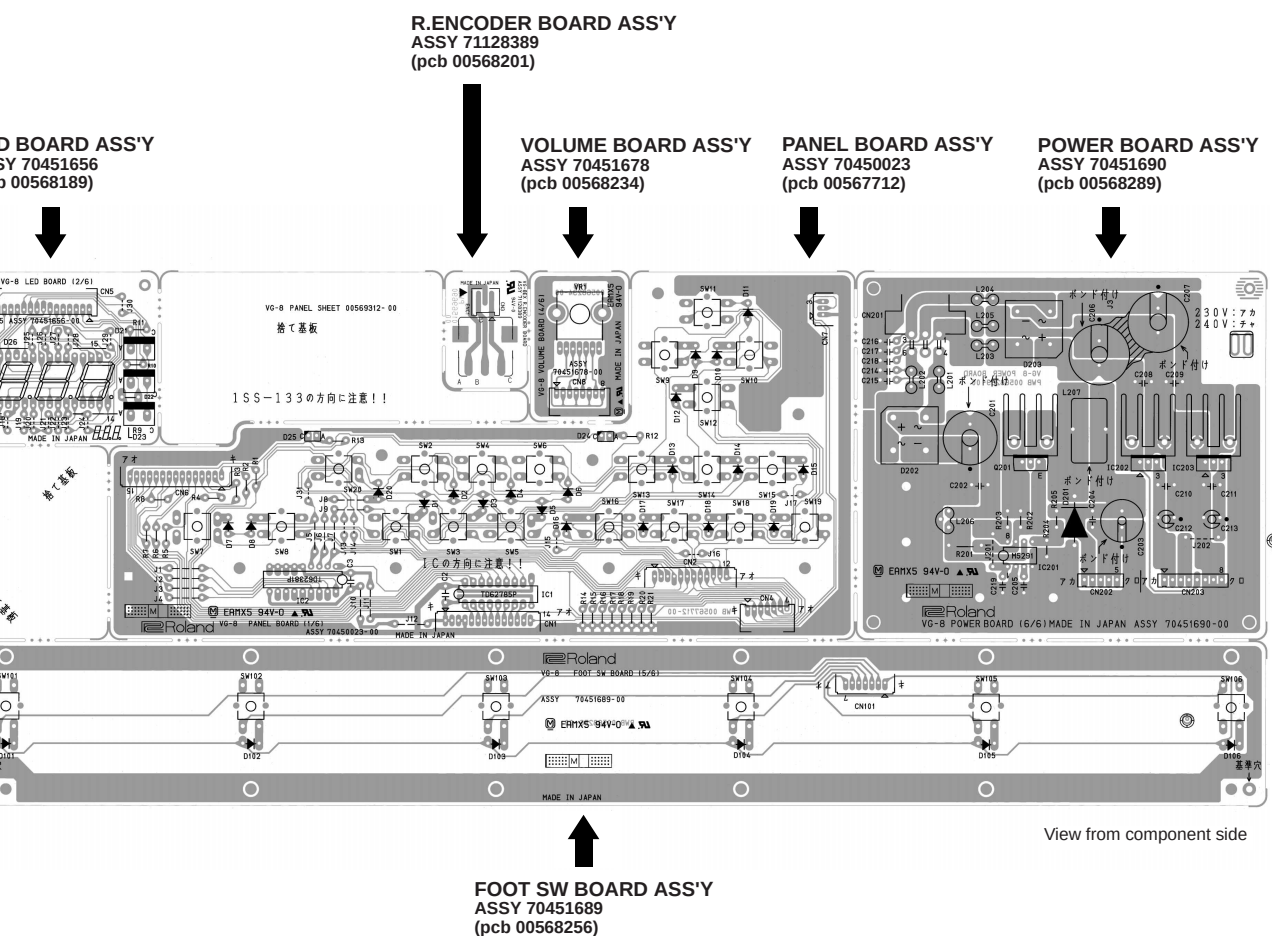


D ASS'Y (CSP BLOCK)

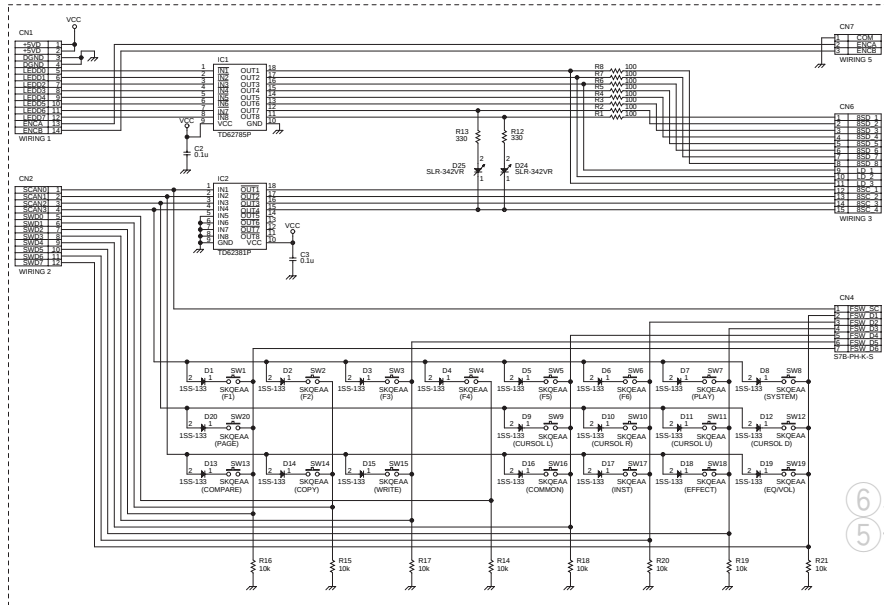




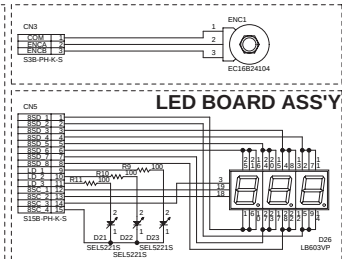
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28



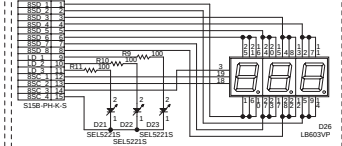
PANEL BOARD ASS'Y



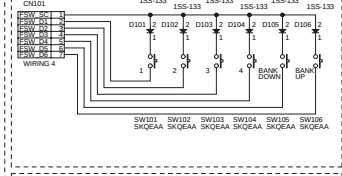
P.ENCODER BOARD ASS'Y



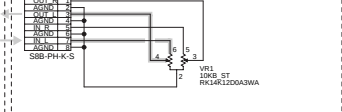
LED BOARD ASS'Y



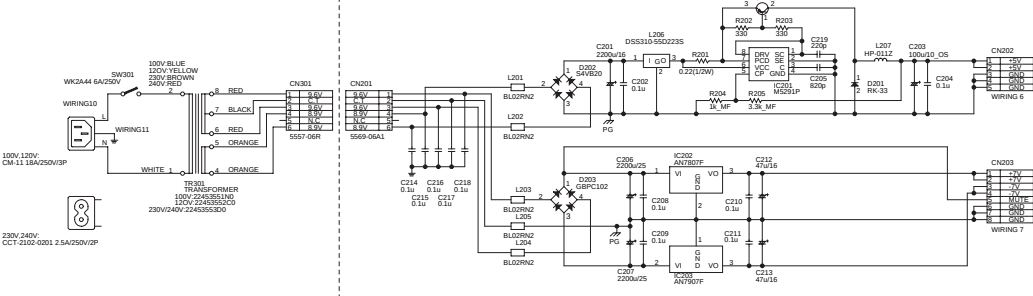
FOOT SW BOARD ASS'Y



VOLUME BOARD ASS'Y



POWER BOARD ASS'Y



LCD UNIT

