

SERVICE NOTES *Issued by RJA*

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Cautionary Notes

Before beginning the procedure, please read through this document. The matters described may differ according to the model.

No User Data

This product cannot save user data. Backing up user data during servicing is not required.

Part Replacement

When replacing components near the power-supply circuit or a heatgenerating circuit (such as a circuit provided with a heat sink or including a cement resistor), carry out the procedure according to the instructions with respect to the part number, direction, and attachment position (mounting so as to leave an air gap between the component and the circuit board, etc.).

Parts List

A component whose part code is ******** will not be supplied as a service part because one of the following reasons applies.

- Because it is supplied as an assembled part (under a different part code).
- Because a number of circuit boards are grouped together and supplied as a single circuit board (under a different part code).
- Because supply is prohibited due to copyright restrictions.
- Because reissuance is restricted.
- Because the part is made to order (at current market price).
- Because it is carried in electronic data on the Roland web site.
- Because it is a package or an accessory irrelevant to the function maintenance of the main body.
- Because it can be replaced with an article on the market. (battery or etc.)

Circuit Diagram

In the circuit diagram, "NIU" is an abbreviation for "Not in Use," and "UnPop" is an abbreviation for "Unpopulated." They both mean non-mounted components. The circuit board and circuit board diagram show silk-screened indications, but no components are mounted.

Specifications

BOSS RV-6: Reverb

Nominal Input Level

-20 dBu

Input Impedance

 $1 M\Omega$

Nominal Output Level

-20 dBu

Output Impedance

 $1~k\Omega$

Recommended Load Impedance

 $10 \text{ k}\Omega$ or greater

Controls

Pedal switch E.LEVEL knob

TONE knob

TIME knob

MODE knob

Indicator

CHECK indicator (Serves also as battery check indicator)

Connectors

INPUT-A (MONO) jack INPUT-B jack OUTPUT-A (MONO) jack OUTPUT-B jack EXP jack AC adaptor jack (DC 9 V)

Power Supply

Alkaline battery (9V, 6LR61) or Carbon-zinc battery (9V, 6F22) AC adaptor (sold separately)

Current Draw

65 mA

* Expected battery life under continuous use (These figures will vary depending on the actual conditions of use.): Alkaline: Approx. 5 hours

Dimensions

73 (W) x 129 (D) x 59 (H) mm 2-7/8 (W) x 5-1/8 (D) x 2-3/8 (H) inches

Weight

450 g 1 lb

(including battery)

Accessories

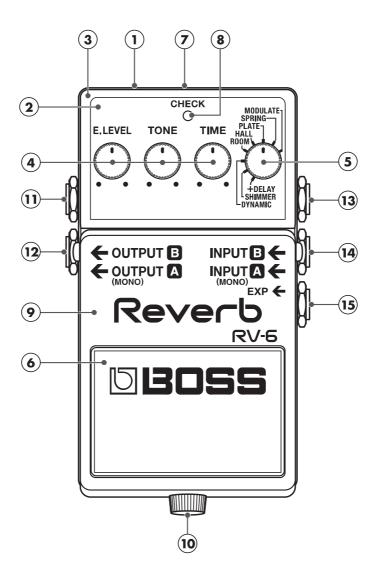
Owner's Manual (#5100045551)
Leaflet ("USING THE UNIT SAFELY," "IMPORTANT NOTE," and "Information") (#*******)
Alkaline battery (9V, 6LR61) (#*******)

Options (sold separately)

AC adaptor (PSA series) Expression Pedal (Roland EV-5)

- * 0 dBu = 0.775 Vrms
- * Printed matters will not be supplied after the end of the production. Then, download the electronic file from the Roland web site.
- * In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

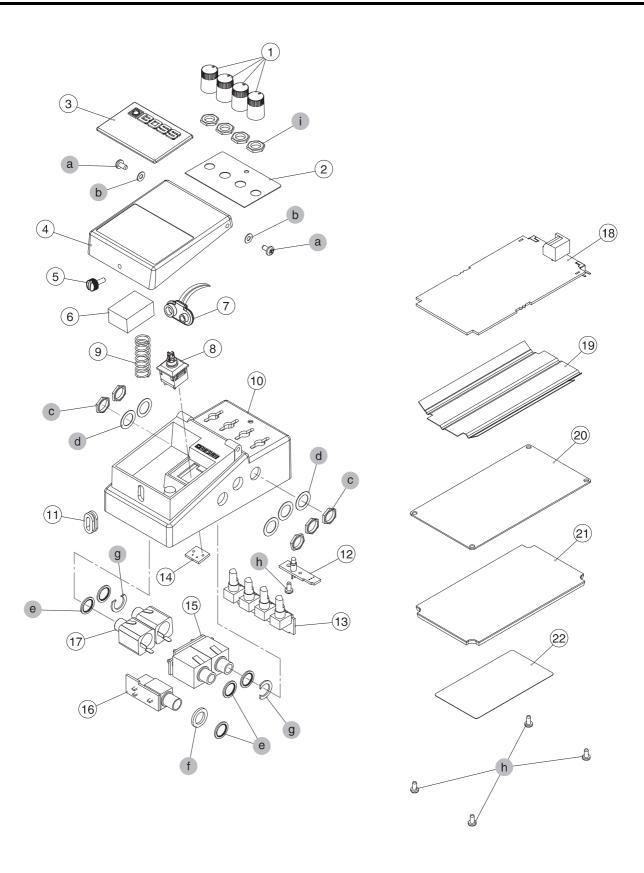
Location of Controls



Location of Controls Parts List

No.	Part Code	Part Name	Description		Q'ty
1	5100014487	COMPACT PSA LABEL			1
2	5100045507	PANEL			1
3	5100045505	CASE			1
4	04567601	P R-KNOB	MF BLK/LCG(22480260R0)		3
	F3279852R0	POTENTIOMETER	RD901-20-15FW-B54-006		3
	******	VR NUT		attached to VR	3
5	04567601	P R-KNOB	MF BLK/LCG(22480260R0)		1
	5100045910	POTENTIOMETER	RD901F-20-15FW-B50K-0853A		1
	*****	VR NUT		attached to VR	1
6	5100008294	PEDAL PLATE	(22357304R0)		1
7	04908701	ADAPTOR JACK	KM02018ABM1P(F3439875R0)		1
8	05015956	LED	L-7104SRT (F5229820R0)		1
	5100043963	LED SPACER	LEDS-6S		1
9	5100045506	PEDAL			1
10	5100007512	THUMB SCREW	(FOR REPAIR ONLY)		1
11	5100006457	6.5MM JACK	HTJ-064-14D		1
	5100003918	JACK NUT M9X12X2	NI RTC(H5039510R0)		1
	5100003926	PLAIN WASHER 9X13.5X0.5T	NI(H5039158R0)		1
	5100008086	INT TOOTH WASHER 9.5X12.5X0.5	NI RTC(H5039205R0)		1
	5100015900	PLAIN WASHER 9.6X14XW11X1.0	AL (22137709R0)		1
12	5100016457	6.5MM JACK	HTI-064-14D		1
12	5100003918	JACK NUT M9X12X2	NI RTC(H5039510R0)		1
	5100003916	PLAIN WASHER 9X13.5X0.5T	NI(H5039158R0)		1
	5100008926	INT TOOTH WASHER 9.5X12.5X0.5	NI RTC(H5039205R0)		1
13	5100046955	6.5MM JACK	SCJ614M2NCS3B11TG		1
10	5100040933	JACK NUT M9X12X2	NI RTC(H5039510R0)		1
	5100003916	PLAIN WASHER 9X13.5X0.5T	NI(H5039158R0)		1
	5100003920	INT TOOTH WASHER 9.5X12.5X0.5	NI RTC(H5039205R0)		1
	5100008080	PLAIN WASHER 9.6X14XW11X1.0	AL (22137709R0)		1
14	5100015900	6.5MM JACK	SCJ614M2NCS3B11TG		1
14	5100046933	JACK NUT M9X12X2	NI RTC(H5039510R0)		1
	5100003918	PLAIN WASHER 9X13.5X0.5T			1
			NI(H5039158R0)		1
1 =	5100008086	INT TOOTH WASHER 9.5X12.5X0.5	NI RTC(H5039205R0)		1
15	5100001163	6.5MM JACK	HTJ-064-12DSMP(F3449707R1)		-
	5100015893	PLAIN WASHER 9.2X14X1.6	NI (H5039104R0)		1
	5100003918	JACK NUT M9X12X2	NI RTC(H5039510R0)		1
	5100003926	PLAIN WASHER 9X13.5X0.5T	NI(H5039158R0)		1
	5100008086	INT TOOTH WASHER 9.5X12.5X0.5	NI RTC(H5039205R0)		

Exploded View



Exploded View Parts List

No.	Part Code	Part Name	Description		Q'ty
1	04567601	P R-KNOB	MF BLK/LCG(22480260R0)		4
2	5100045507	PANEL			1
3	5100008294	PEDAL PLATE	(22357304R0)		1
4	5100045506	PEDAL			1
5	5100007512	THUMB SCREW	(FOR REPAIR ONLY)		1
6	5100007503	BATTERY CUSHION	(22267333R0)		1
7	5100024525	BATTERY CONNECTOR	006P BATTERY SNAP		1
8	5100024133	SWITCH(PUSH)	PS017-N11AA(F3129517R0)		1
9	5100007504	COIL SPRING	(22177109R0)		1
10	5100045505	CASE			1
11	5100007505	PEDAL GUIDE BUSH	(FOR REPAIR ONLY)		1
	5100045235	MAIN SHEET ASSY			1
	* This unit in	cludes the following parts.			
12	*****	LED BOARD			1
13	*****	VR BOARD			1
14	*****	SW BOARD			1
15	*****	INPUT BOARD			1
16	******	EXP BOARD			1
18	*****	MAIN BOARD			1
17	5100006457	6.5MM JACK	HTJ-064-14D		2
19	5100022073	INSULATING SHEET	4-5.5X5.5(751043W0R0)		1
20	5100006632	BOTTOM COVER	(22027851R0)		1
21	5100006633	BOTTOM FOOT	(22357305R0)		1
22	5100039561	CAUTION SEAL	PSA (FCC/EMI) VER.2		1
a	40010267	SCREW M3X10	BINDING MACHINE FE BZC		2
b	5100008092	PLAIN WASHER 3X6X0.5	RESIN RTC(H5039708R0)		2
С	5100003918	JACK NUT M9X12X2	NI RTC(H5039510R0)		5
d	5100003926	PLAIN WASHER 9X13.5X0.5T	NI(H5039158R0)		5
e	5100008086	INT TOOTH WASHER 9.5X12.5X0.5	NI RTC(H5039205R0)		5
f	5100015893	PLAIN WASHER 9.2X14X1.6	NI (H5039104R0)		1
g	5100015900	PLAIN WASHER 9.6X14XW11X1.0	AL (22137709R0)		2
h	5100007965	SCREW 3X6(H5029325R0)	PAN TAPPING B1 BZC		5
i	*****	VR NUT		attached to VR	4

Parts List

Safety Precautions:

The parts marked ∆have safety-related characteristics. Use only listed parts for replacement.

Due to one or more of the following reasons, parts with parts code ******* cannot be supplied as service parts.

- Supply is prohibited due to copyright restrictions.
 It is carried in electronic data on the Roland web site.
- · Reissuance is restricted.
- It is supplied as an assembled part

The part is made to order (at current market price).
It can be replaced with an article on the market, (battery or etc.)
It is supplied as an assembled part
(under a different part code).
It is a package or an accessory irrelevant to the function maintenance of the main body.
A number of circuit boards are grouped together and supplied as a single circuit board (under a different part code).

Note: The parts marked # are new. (initial parts) The description "Q'ty" means a necessary number of the parts per one product.

CASING				
#	5100045505	CASE		1
#	5100045507	PANEL		1
‡	5100045506	PEDAL		1
	5100008294	PEDAL PLATE	(22357304R0)	1
	5100006231	BOTTOM COVER	(22027851R0)	1
	510000000	De l'i em de l'En	(======================================	-
киов, вит	TON			
	04567601	P R-KNOB	MF BLK/LCG(22480260R0)	4
SWITCH				
	5100024133	SWITCH(PUSH)	PS017-N11AA(F3129517R0)	1
LACK EVE	TERMINIAL			
JACK, EXT	04908701	ADAPTOR JACK	KM02018ABM1P(F3439875R0)	1
#	5100046955	6.5MM JACK	SCJ614M2NCS3B11TG	2
	5100046933	6.5MM JACK	·	1
	5100001163	•	HTJ-064-12DSMP(F3449707R1) HTJ-064-14D	2
	3100006437	6.5MM JACK	N1J-004-14D	2
PWB ASSY				
#	5100045235	MAIN SHEET ASSY		1
		ncludes the following parts.		
#	*****	MAIN BOARD		1
#	******	SW BOARD		1
#	******	EXP BOARD		1
#	*****	LED BOARD		1
#	*****	VR BOARD		1
#	*****	INPUT BOARD		1
-10				
DIODE	05015956	LED	L-7104SRT (F5229820R0)	1
POTENTION	METER			
	5100045910	POTENTIOMETER	RD901F-20-15FW-B50K-0853A	1
	F3279852R0	POTENTIOMETER	RD901-20-15FW-B54-006	3
WIRING, CA	BLE			
WIRING, CA	SELE 5100032875	WIRING	W1(INPUT)	1
WIRING, CA		WIRING WIRING	W1(INPUT) UL1007 OS-1 AWG24 BLK 45X6X6	1 1
WIRING, CA	5100032875		,	
WIRING, CA	5100032875 5100021012 5100008081	WIRING WIRING	UL1007 OS-1 AWG24 BLK 45X6X6 UL1007 OS-1 AWG24 BRN 105X6X3	1
WIRING, CA	5100032875 5100021012 5100008081 5100032876	WIRING WIRING WIRING	UL1007 OS-1 AWG24 BLK 45X6X6 UL1007 OS-1 AWG24 BRN 105X6X3 UL1007 OS-1 AWG24 GRY 100X3X6	1 1 1
WIRING, CA	5100032875 5100021012 5100008081 5100032876 5100011003	WIRING WIRING WIRING WIRING	UL1007 OS-1 AWG24 BLK 45X6X6 UL1007 OS-1 AWG24 BRN 105X6X3 UL1007 OS-1 AWG24 GRY 100X3X6 UL1007 OS-1 AWG24 GRY 110X6EX6	1 1 1 1
WIRING, CA	5100032875 5100021012 5100008081 5100032876 5100011003 5100032877	WIRING WIRING WIRING WIRING WIRING	UL1007 OS-1 AWG24 BLK 45X6X6 UL1007 OS-1 AWG24 BRN 105X6X3 UL1007 OS-1 AWG24 GRY 100X3X6 UL1007 OS-1 AWG24 GRY 110X6EX6 UL1007 OS-1 AWG24 ORG 100X3X6	1 1 1 1 1
WIRING, CA	5100032875 5100021012 5100008081 5100032876 5100011003 5100032877 5100008083	WIRING WIRING WIRING WIRING WIRING WIRING	UL1007 OS-1 AWG24 BLK 45X6X6 UL1007 OS-1 AWG24 BRN 105X6X3 UL1007 OS-1 AWG24 GRY 100X3X6 UL1007 OS-1 AWG24 GRY 110X6EX6 UL1007 OS-1 AWG24 ORG 100X3X6 UL1007 OS-1 AWG24 WHT 85X6X3	1 1 1 1 1
WIRING, CA	5100032875 5100021012 5100008081 5100032876 5100011003 5100032877 5100008083 5100043803	WIRING WIRING WIRING WIRING WIRING WIRING WIRING	UL1007 OS-1 AWG24 BLK 45X6X6 UL1007 OS-1 AWG24 BRN 105X6X3 UL1007 OS-1 AWG24 GRY 100X3X6 UL1007 OS-1 AWG24 GRY 110X6EX6 UL1007 OS-1 AWG24 ORG 100X3X6 UL1007 OS-1 AWG24 WHT 85X6X3 UL1007 OS-1 AWG24 YEL 110X6X6	1 1 1 1 1 1
WIRING, CA	5100032875 5100021012 5100008081 5100032876 5100011003 5100032877 5100008083 5100043803 5100043803 5100008080	WIRING	UL1007 OS-1 AWG24 BLK 45X6X6 UL1007 OS-1 AWG24 BRN 105X6X3 UL1007 OS-1 AWG24 GRY 100X3X6 UL1007 OS-1 AWG24 GRY 110X6EX6 UL1007 OS-1 AWG24 ORG 100X3X6 UL1007 OS-1 AWG24 WHT 85X6X3 UL1007 OS-1 AWG24 YEL 110X6X6 GRN 160X6EX6E (H4009499R1)	1 1 1 1 1
WIRING, CA	5100032875 5100021012 5100008081 5100032876 5100011003 5100032877 5100008083 5100043803 5100043803 5100008080 5100014618	WIRING UL1007 OS-1 AWG24 WIRING UL1007 OS-1 AWG24	UL1007 OS-1 AWG24 BLK 45X6X6 UL1007 OS-1 AWG24 BRN 105X6X3 UL1007 OS-1 AWG24 GRY 100X3X6 UL1007 OS-1 AWG24 GRY 110X6EX6 UL1007 OS-1 AWG24 ORG 100X3X6 UL1007 OS-1 AWG24 WHT 85X6X3 UL1007 OS-1 AWG24 YEL 110X6X6 GRN 160X6EX6E (H4009499R1) GRN 80X6EX6E (H4019510R0)	1 1 1 1 1 1 1 1
WIRING, CA	5100032875 5100021012 5100008081 5100032876 5100011003 5100032877 5100008083 5100043803 5100043803 5100014618 5100014617	WIRING UL1007 OS-1 AWG24 WIRING UL1007 OS-1 AWG24 WIRING UL1007 OS-1 AWG24	UL1007 OS-1 AWG24 BLK 45X6X6 UL1007 OS-1 AWG24 BRN 105X6X3 UL1007 OS-1 AWG24 GRY 100X3X6 UL1007 OS-1 AWG24 GRY 110X6EX6 UL1007 OS-1 AWG24 ORG 100X3X6 UL1007 OS-1 AWG24 WHT 85X6X3 UL1007 OS-1 AWG24 YEL 110X6X6 GRN 160X6EX6E (H4009499R1) GRN 80X6EX6E (H4019510R0) ORG 80X6EX6E (H4019509R0)	1 1 1 1 1 1 1 1 1
WIRING, CA	5100032875 5100021012 5100008081 5100032876 5100011003 5100032877 5100008083 5100043803 5100043803 5100014618 5100014617 5100008079	WIRING UL1007 OS-1 AWG24 WIRING UL1007 OS-1 AWG24 WIRING UL1007 OS-1 AWG24 WIRING UL1007 OS-1 AWG24	UL1007 OS-1 AWG24 BLK 45X6X6 UL1007 OS-1 AWG24 BRN 105X6X3 UL1007 OS-1 AWG24 GRY 100X3X6 UL1007 OS-1 AWG24 GRY 110X6EX6 UL1007 OS-1 AWG24 ORG 100X3X6 UL1007 OS-1 AWG24 WHT 85X6X3 UL1007 OS-1 AWG24 YEL 110X6X6 GRN 160X6EX6E (H4009499R1) GRN 80X6EX6E (H4019510R0) ORG 80X6EX6E (H4019509R0) PUR 160X6EX6E (H4009499R1)	1 1 1 1 1 1 1 1
WIRING, CA	5100032875 5100021012 5100008081 5100032876 5100011003 5100032877 5100008083 5100043803 5100043803 5100014618 5100014617	WIRING UL1007 OS-1 AWG24 WIRING UL1007 OS-1 AWG24 WIRING UL1007 OS-1 AWG24	UL1007 OS-1 AWG24 BLK 45X6X6 UL1007 OS-1 AWG24 BRN 105X6X3 UL1007 OS-1 AWG24 GRY 100X3X6 UL1007 OS-1 AWG24 GRY 110X6EX6 UL1007 OS-1 AWG24 ORG 100X3X6 UL1007 OS-1 AWG24 WHT 85X6X3 UL1007 OS-1 AWG24 YEL 110X6X6 GRN 160X6EX6E (H4009499R1) GRN 80X6EX6E (H4019510R0) ORG 80X6EX6E (H4019509R0)	1 1 1 1 1 1 1 1 1

SCREWS				
	40010267	SCREW M3X10	BINDING MACHINE FE BZC	2
	5100007965	SCREW 3X6(H5029325R0)	PAN TAPPING B1 BZC	5
	5100007512	THUMB SCREW	(FOR REPAIR ONLY)	1
	5100003918	JACK NUT M9X12X2	NI RTC(H5039510R0)	5
	5100008092	PLAIN WASHER 3X6X0.5	RESIN RTC(H5039708R0)	2
	5100015893	PLAIN WASHER 9.2X14X1.6	NI (H5039104R0)	1
	5100015900	PLAIN WASHER 9.6X14XW11X1.0	AL (22137709R0)	2
	5100003926	PLAIN WASHER 9X13.5X0.5T	NI(H5039158R0)	5
	5100008086	INT TOOTH WASHER 9.5X12.5X0.5	NI RTC(H5039205R0)	5
MISCELLA	ANEOUS			
	5100007503	BATTERY CUSHION	(22267333R0)	1
	5100006633	BOTTOM FOOT	(22357305R0)	1
	5100039561	CAUTION SEAL	PSA (FCC/EMI) VER.2	1
	5100007504	COIL SPRING	(22177109R0)	1
	5100014487	COMPACT PSA LABEL		1
	5100020413	EARTH TERMINAL		2
	5100005300	FILAMENT TAPE	3M #898 W20MM	-
	5100022073	INSULATING SHEET	4-5.5X5.5(751043W0R0)	1
	5100043963	LED SPACER	LEDS-6S	1
	5100007505	PEDAL GUIDE BUSH	(FOR REPAIR ONLY)	1
ACCESSO	ORIES (Standard)			
#	5100045551	OWNER'S MANUAL	MULTILANGUAGE	1

Verifying the Version

The Test Mode is used to verify the version. Refer to **1. Verifying the Version** (p. 10).

Data Backup and Restore Operations

This product cannot save user data. Backing up user data during servicing is not required.

Performing a Factory Reset

This product has no factory-reset feature.

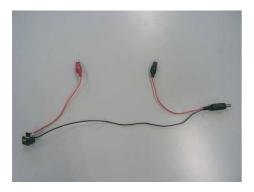
Updating the System

A system update cannot be performed for this product. If an update is required, replace with an updated circuit board. Updates can be accomplished only at the factory.

Test Mode

Items Required

- AC adaptor (PSA-series device)
- Oscillator
- Oscilloscope
- Noise meter
- Tester
- Amp-equipped monitor speaker
- Battery (9 V type)
- * Set this into the unit beforehand.
- 1/4-inch monaural phone cables (x 2)
- 1/4-inch monaural phone plug with 10-k Ω load resister
- 1/4-inch monaural phone plug with 47-k Ω load resisters (x 2)
- EV-5
- * Set the minimum volume to the minimum position.
- Current-consumption measurement tool



Inspection Items

- 1. Verifying the Version (p. 10)
- 2. Measurement of Current Consumption (p. 10)
- 3. Detect Test (p. 10)
- 4. Expression Pedal Test (p. 11)
- 5. Volume Test (p. 11)
- 6. AD/DA Test (p. 11)
- 7. Bypass Test (p. 11)
- 8. DSP Noise Test (p. 11)
- 9. Bypass Noise Test (p. 12)
- 10. Battery Operation Test (p. 12)
- * 10. Battery Operation Test is carried out in the normal mode.

Entering the Test Mode

- Use the current-consumption measurement tool to connect the AC adaptor.
 - When 2. Measurement of Current Consumption (p. 10) is not executed, only an AC adaptor can be connected.
- 2. Turn all knobs all the way counterclockwise.
- Hold down the pedal and insert a 1/4-inch monaural phone cable into the INPUT A jack.

The **CHECK** LED lights up, goes dark and flashes, and then the unit enters the first item of the Test Mode: **1. Verifying the Version**.

Quitting the Test Mode

Depress the pedal. Or, detach the plug from **INPUT A** and **INPUT B** jacks to switch off the power.

1. Verifying the Version

When the unit enters the test mode, the **CHECK** LED flashes, and the number of flashes indicates the version.

Examples: 1 flash: Ver. 1.00

2 flash: Ver. 1.01 3 flash: Ver. 1.03

2. Measurement of Current Consumption

- Use the current-consumption measurement tool to connect the AC adaptor.
- **2.** The unit starts up in the test mode.
- **3.** Verify that the current consumption is from **40** to **60 mA**.

3. Detect Test

- Connect a 1/4-inch monaural phone cable to the INPUT B jack.
 The CHECK LED goes dark.
- Connect the another plug of the 1/4-inch monaural phone cable connected to the INPUT A jack to the OUTPUT A jack.
 The CHECK LED lights up.
- Connect the another plug of the 1/4-inch monaural phone cable connected to the INPUT B jack to the OUTPUT B jack.
 The CHECK LED goes dark.
- **4.** Depress the heel of the EV-5 all the way, and connect it to the **EXP** jack. The **CHECK** LED lights up.

4. Expression Pedal Test

- Slightly depress the toe of the EV-5, and verify that the CHECK LED goes dark.
- Depress the EV-5 to about the center, and verify that the CHECK LED lights up.
- Depress the EV-5 further more, and verify that the CHECK LED goes dark.
- Depress the toe of the EV-5 all the way, and verify that the CHECK LED lights up.
- Slowly depress the heel of the EV-5, and verify that the CHECK LED goes dark, lights up and then goes dark.
- Depress the heel of the EV-5 all the way, and verify that the CHECK LED lights up.
- **7.** Detach the EV-5.

5. Volume Test

- Turn the E. LEVEL knob to near the eleven o'clock position, and verify that the CHECK LED goes dark.
- Turn the E. LEVEL knob to near the one o'clock position, and verify that the CHECK LED lights up.
- Turn the E. LEVEL knob all the way clockwise, and verify that the CHECK LED goes dark.
- Turn the TONE knob to near the eight o'clock position, and verify that the CHECK LED lights up.
- Turn the TONE knob to near the eleven o'clock position, and verify that the CHECK LED goes dark.
- Turn the TONE knob to near the one o'clock position, and verify that the CHECK LED lights up.
- Turn the TONE knob all the way clockwise, and verify that the CHECK LED goes dark.
- **8.** For the **TIME** knob, verify in the same way as steps **4** through **7**.

6. AD/DA Test

Adjust the mode knob (rightmost) to SHIMMER.

A test signal is output from the **OUTPUT A** jack, and the signal which is input to the **INPUT A** jack via the cable is checked automatically. (OUTPUT A -> INPUT A)

The **CHECK** LED goes dark while checking is in progress, and it lights up when the check result is OK or it flashes when the check result is not OK.

2. Adjust the mode knob to **DYNAMIC**.

The same signal as step **1** is output from the **OUTPUT B** jack, and the signal which is input to the **INPUT B** jack via the cable is checked automatically.

(OUTPUT B -> INPUT B)

The **CHECK** LED goes dark while checking is in progress, and it lights up when the check result is OK or it flashes when the check result is not OK.

- **3.** Disconnect the plug from the **INPUT A** jack.
- **4.** Adjust the mode knob to **ROOM**.

A test signal is output from the **OUTPUT B** jack, and the signal which is input to the **INPUT B** jack via the cable also flows to the circuit of the **INPUT A**, and then both signals are added together, and the signal which became the double level is checked automatically.

(OUTPUT B -> INPUT A, INPUT B -> INPUT A + INPUT B)

The **CHECK** LED goes dark while checking is in progress, and it lights up when the check result is OK or it flashes when the check result is not OK.

Connect the plug disconnected in step 3 to the INPUT A jack again, and disconnect the plug from the INPUT B jack. 6. Adjust the mode knob to HALL.

The same signal as step **4** is output from the **OUTPUT A** jack, and the signal which is input to the **INPUT A** jack via the cable also flows to the circuit of the **INPUT B**, and then both signals are added together, and the signal which became the double level is checked automatically. (OUTPUT A -> INPUT A, INPUT B -> INPUT A + INPUT B)

The **CHECK** LED goes dark while checking is in progress, and it lights up when the check result is OK or it flashes when the check result is not OK.

7. Bypass Test

- 1. Connect the 1/4-inch monaural phone plug with 47-k Ω load resistor to the INPUT B jack.
- **2.** Adjust the mode knob to **PLATE**. The **CHECK** LED goes dark.
- **3.** Connect the oscillator to the **INPUT A** jack.
- **4.** Connect the oscilloscope to the **OUTPUT A** jack.
- Input a signal like the following to the INPUT A jack.
 INPUT A: 200-Hz sine wave at 5 Vpp
- **6.** Verify that a signal like the following is output from the **OUTPUT A** jack. OUTPUT A: 200-Hz sine wave at 4.9±0.5 Vpp
- 7. Disconnect the oscillator from the INPUT A jack and then connect the 1/4 -inch monaural phone plug with 47-k Ω load resistor to the INPUT A jack.
- 8. Disconnect the 1/4-inch monaural phone plug with 47-kΩ load resistor from the INPUT B jack and then connect the oscillator to the INPUT B jack.
- Disconnect the oscilloscope from the OUTPUT A jack and connect it to the OUTPUT B jack.
- **10.** Input a signal like the following to the **INPUT B** jack. INPUT B: 200-Hz sine wave at 5 Vpp
- **11.** Verify that a signal like the following is output from the **OUTPUT B** jack. OUTPUT B: 200-Hz sine wave at 4.9±0.5 Vpp
- **12.** Detach the oscilloscope.

8. DSP Noise Test

- Adjust the mode knob to SPRING. The CHECK LED lights up.
- **2.** Disconnect the oscillator from the **INPUT B** jack and connect the 1/4-inch monaural phone plug with 47- $k\Omega$ load resistor to the **INPUT B** jack.
- **3.** Connect the noise meter to the **OUTPUT A** jack and verify that residual noise is as follows.

OUTPUT A: -58 dBm or less (DIN audio)

- Disconnect the noise meter from the OUTPUT A jack and connect it to the OUTPUT B jack, and verify that residual noise is as follows.
 OUTPUT A: -58 dBm or less (DIN audio)
- **5.** Detach the noise meter.
- **6.** Connect the amp-equipped monitor speaker to the **OUTPUT A** jack.
- **7.** Drop the unit from a height of about 5 centimeters more than three times and verify that no abnormal sound is heard from the monitor speaker.
- **8.** Disconnect the amp-equipped monitor speaker from the **OUTPUT A** jack and connect it to the **OUTPUT B** jack.
- Drop the unit from a height of about 5 centimeters more than three times and verify that no abnormal sound is heard from the monitor speaker.
- 10. Detach the amp-equipped monitor speaker.

9. Bypass Noise Test

1. Adjust the mode knob to **MODULATE**.

The **CHECK** LED goes dark.

Connect the noise meter to the OUTPUT A jack and verify that residual noise is as follows.

OUTPUT A: -97 dBm or less (DIN-audio)

3. Disconnect the noise meter from the **OUTPUT A** jack and connect it to the **OUTPUT B** jack and verify that residual noise is as follows.

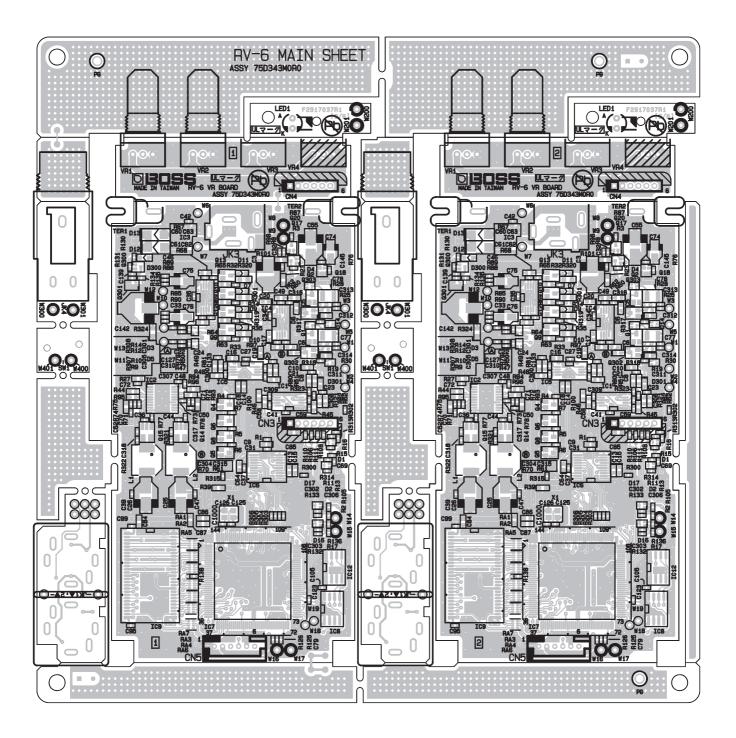
OUTPUT B: -97 dBm or less (DIN-audio)

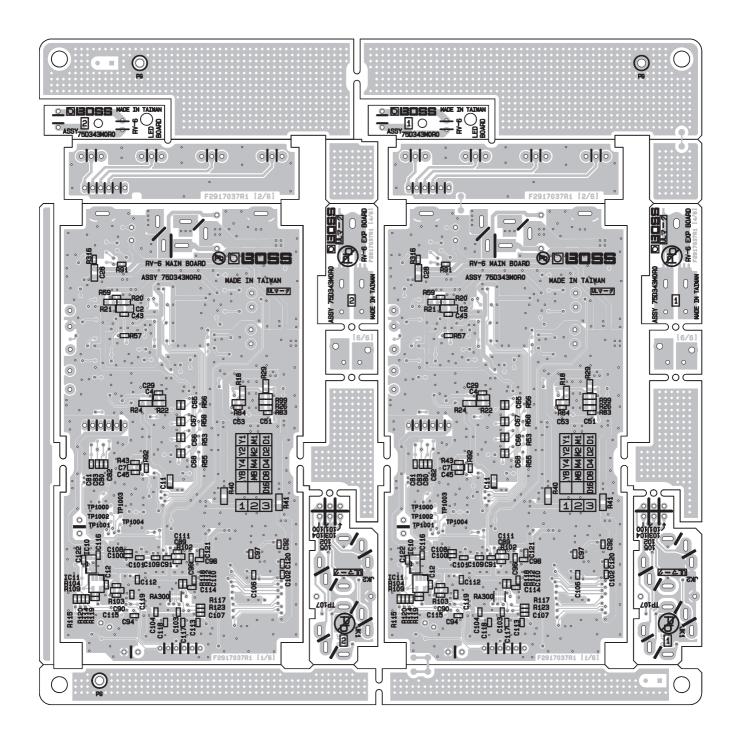
4. Detach the noise meter.

10. Battery Operation Test

- 1. Depress the pedal.
- **2.** Verify that the **CHECK** LED flashes and goes dark. The unit exits from the test mode and returns to the normal mode.
- **3.** Depress the pedal.
- **4.** Verify that the **CHECK** LED lights up.
- Disconnect the plug of the AC adaptor rapidly and verify that the CHECK LED does not become fainter or go dark.

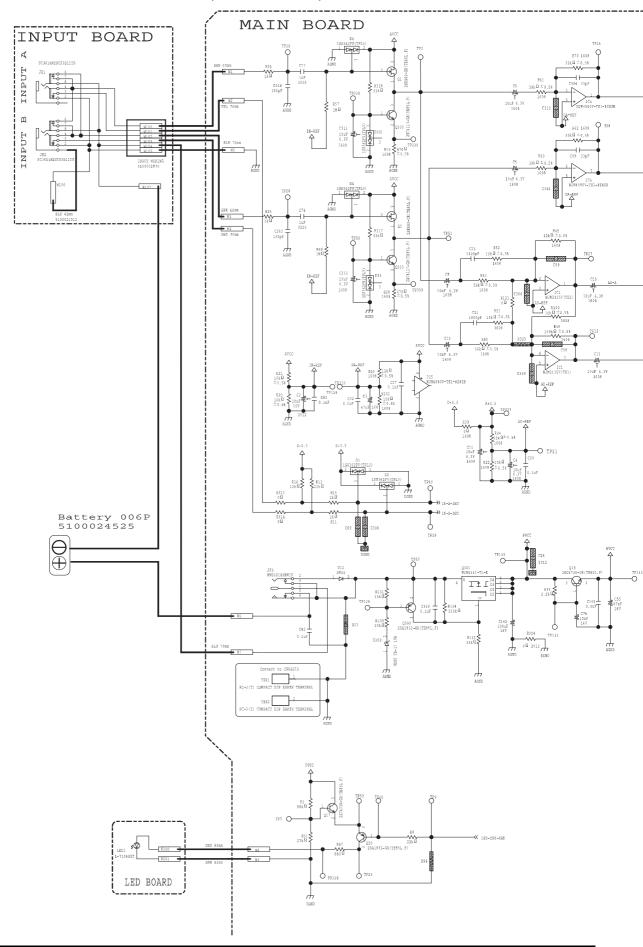
Circuit Board (Main, VR, Input, SW, LED, EXP Board)

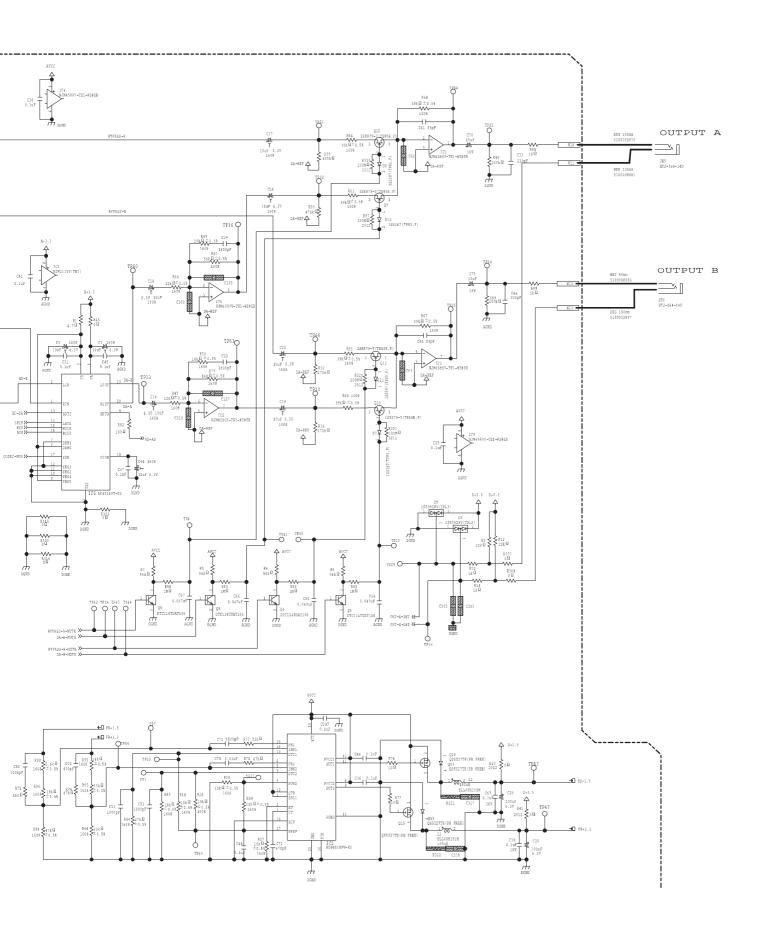




Circuit Diagram (Main, Input, LED Board)

RV-6 Circuit(1)/ANALOG, POWER





Circuit Diagram (Main, VR, SW, EXP Board)

RV-6 Circuit(2)/DIGITAL

