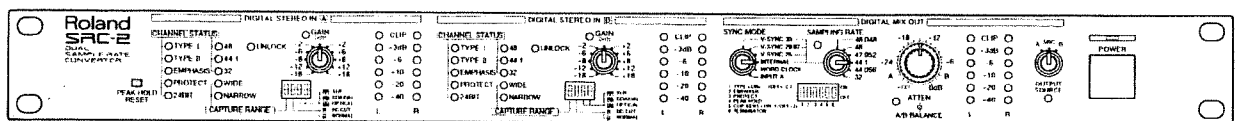




# Roland

## DUAL SAMPLE RATE CONVERTER

# SRC-2

### OWNER'S MANUAL



	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<b>ATTENTION</b> RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR		
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

## IMPORTANT SAFETY INSTRUCTIONS

**WARNING** — When using electric products, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should be used only with a cart or stand that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. Avoid using the product where it may be affected by dust.
8. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
9. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
10. Do not tread on the power-supply cord.
11. Do not pull the cord but hold the plug when unplugging.
12. When setting up with any other instruments, the procedure should be followed in accordance with instruction manual.
13. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
14. The product should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the product; or
  - C. The product has been exposed to rain; or
  - D. The product does not appear to operate normally or exhibits a marked change in performance; or
  - E. The product has been dropped, or the enclosure damaged.
15. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

For Canada

For Polarized Attachment Plug

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

**ATTENTION:** POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

## SAVE THESE INSTRUCTIONS

For the U.K.

**WARNING:** THIS APPARATUS MUST BE EARTHED

**IMPORTANT:** THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.  
GREEN-AND-YELLOW: EARTH. BLUE: NEUTRAL, BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

The product which is equipped with a THREE WIRE GROUNDING TYPE AC PLUG must be grounded.

For Germany

## Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das

Roland Dual Sample Rate Converter SRC-2

(Gerät. Typ. Bezeichnung)

in Übereinstimmung mit den Bestimmungen der

Amtsbl. Vfg 1046/1984

(Amtsblattverfügung)

funk-entstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

Roland Corporation Osaka/Japan

Name des Herstellers/Importeurs

For the USA

## RADIO AND TELEVISION INTERFERENCE

**WARNING** — This equipment has been verified to comply with the limits for a Class B computing device, pursuant to Subpart J, of Part 15, of FCC rules. Operation with non-certified or non-verified equipment is likely to result in interference to radio and TV reception.

The equipment described in this manual generates and uses radio frequency energy. If it is not installed and used properly, that is, in strict accordance with our instructions, it may cause interference with radio and television reception. This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J, of Part 15, of FCC Rules. These rules are designed to provide reasonable protection against such a interference in a residential installation. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by the following measure:

- Disconnect other devices and their input/output cables one at a time. If the interference stops, it is caused by either the other device or its I/O cable. These devices usually require Roland designated shielded I/O cables. For Roland devices, you can obtain the proper shielded cable from your dealer. For non Roland devices, contact the manufacturer or dealer for assistance.
- If your equipment does cause interference to radio or television reception, you can try to correct the interference by using one or more of the following measures.
  - Turn the TV or radio antenna until the interference stops.
  - Move the equipment to one side or the other of the TV or radio
  - Move the equipment farther away from the TV or radio
  - Plug the equipment into an outlet that is on a different circuit than the TV or radio. (That is, make certain the equipment and the radio or television set are on circuits controlled by different circuit breakers or fuses.)
  - Consider installing a rooftop television antenna with coaxial cable lead-in between the antenna and TV. If necessary, you should consult your dealer or an experienced radio/television technician for additional suggestions. You may find helpful the following booklet prepared by the Federal Communications Commission: "How to Identify and Resolve Radio — TV Interference Problems"

This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

For Canada

### CLASS B

### NOTICE

This digital apparatus does not exceed the Class B limits for radio noise emissions set out in the Radio Interference Regulations of the Canadian Department of Communications.

### CLASSE B

### AVIS

Cet appareil numérique ne dépasse pas les limites de la classe B au niveau des émissions de bruits radioélectriques fixés dans le Règlement des signaux parasites par le ministère canadien des Communications.

Thank you and congratulations on your choice of the **Roland SRC-2** Dual Sampling Rate Converter. To fully understand the operation of this unit, and ensure years of trouble-free service, please take the time to read through this manual.

## FEATURES

- The unit allows for the mixing of two signals (A & B) which are in different digital audio formats. This mix can then be output in one selected format.
- The audio signals can be converted so they will use a different sampling frequency when output.
- The output sampling frequency can be synchronized with V-SYNC (HOUSE SYNC) or WORD CLOCK.
- The primary Channel Status for each digital audio input signal can be monitored by viewing the indicators.
- Settings for the primary Channel Status of each digital audio signal can be altered for output.

## IMPORTANT NOTES

In addition to the items listed under **Safety Precautions** on page 2, please read and adhere to the following:

### [Placement]

- This unit may interfere with radio and television reception. Do not use this unit in the vicinity of such receivers.

### [Maintenance]

- For everyday cleaning wipe the unit with a soft, dry cloth (or one that has been slightly dampened with water). To remove stubborn dirt, use a mild neutral detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

### [Additional Precautions]

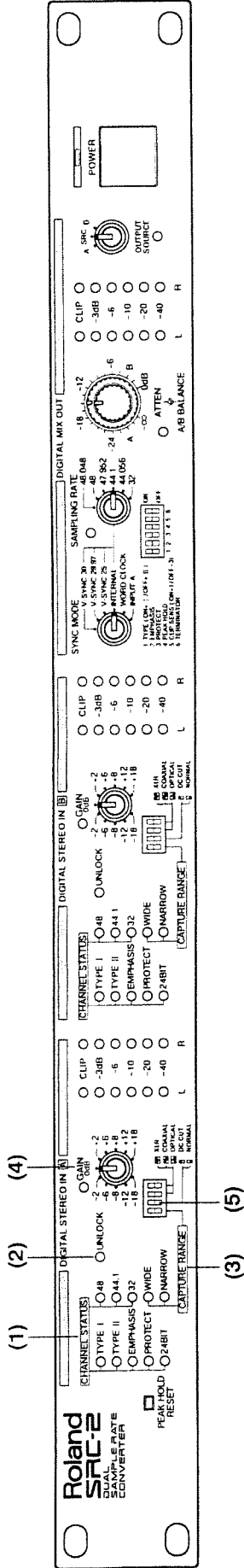
- Protect the unit from strong impact.
- Before using the unit in a foreign country, consult with qualified service personnel.

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# PANEL DESCRIPTION (Front Panel)



## DIGITAL STEREO IN A/B

### (1) CHANNEL STATUS Indicators

Once signals have been input, the relevant indicators will light as the Channel Status is being demodulated and data transferred. The conditions under which each indicator will light (value of Channel Status) are shown below.

INDICATOR	CONDITION	CHANNEL STATUS
TYPE I	The digital audio format is of Type I (industrial-use).	Bit 0 : 1
TYPE II	The digital audio format is of Type II (consumer-use).	Bit 0 : 0
EMPHASIS	Some type of emphasis is applied to the digital audio.	• Type I : Bits 2-4 : 110 or 111 • Type II : Bits 1-5 : 0 x 100
PROTECT	With Type II, protected from digital copying.	(Type II only) Bit 2 : 0
24BIT	With Type I, and 24-bit digital audio signals.	(Type I only) Bits 16-18 : 001
48	With a 48 kHz sampling frequency. (Note 1)	• Type I : Bits 6-7 : 00 or 01 • Type II : Bits 24-27 : 0100
44.1	With a 44.1 kHz sampling frequency. (Note 1)	• Type I : Bits 6-7 : 10 • Type II : Bits 24-27 : 0000
32	With a 32 kHz sampling frequency. (Note 1)	• Type I : Bits 6-7 : 11 • Type II : Bits 24-27 : 1100

Note 1: The indicator will flash when:

The digital audio format is of Type I and the sampling frequency is not locked (bit 5 of the Channel Status is "1").  
The format is Type II, and the sampling clock precision is at Level III (bits 28-29 of the Channel Status are "01").

### (2) UNLOCK Indicator

This indicator lights when signals are being received, but they cannot be demodulated. (Will always light momentarily when digital audio signals are input initially.)

### (3) CAPTURE RANGE Indicators/Switches

These indicators operate in a dependent relationship with the dip switches. Either the "WIDE" or "NARROW" indicator will light to correspond with the sampling frequency capture range as follows:

#### WIDE

28-54kHz  
Used at this position for reception of a variable sampling frequency.

#### NARROW

48/44.1/32kHz ± 0.2%  
Used at this position with the typical settings. Assures that there will be less 'jitter' than there would be at the "WIDE" setting.

• When the SYNC MODE switch is at "INPUT A," DIGITAL STEREO IN A will automatically be placed at the "NARROW" setting, regardless of the dip switch settings.

#### «IMPORTANT»

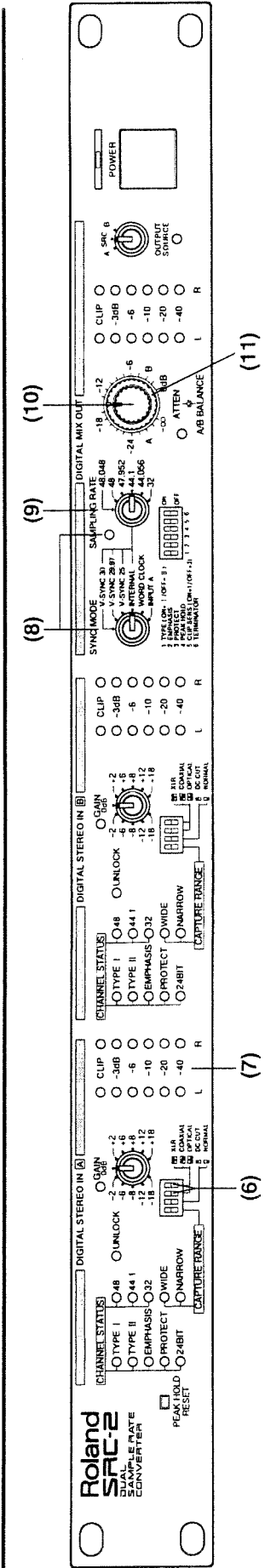
Note that you may not be able to lock onto the input signals while using the "WIDE" setting if the signals present a large amount of 'jitter'. In order to obtain more precise reception, you should use the "NARROW" setting (except when receiving variable sampling frequencies).

### (4) GAIN Switch/Indicator

Used to alter the gain for the input signals. The indicator will light when the gain has been changed (whenever the switch is set at anything other than 0 dB).

### (5) DC CUT Switch

When the dip switch is set at its upper position (DC CUT), certain portions of the input signal will be cut: at a 48 kHz sampling frequency: portions below approx. 15 Hz. At 44.1 kHz: portions below approx. 14 Hz. At 32 kHz: portions below approx. 10 Hz. When the dip switch is set at its lower position (NORMAL) the signals are not affected



**(6) Digital Audio Interface Selection Switches**

By altering the settings for these two switches (as printed on the panel to the right of the switches) you can select the type of digital audio interface (input connector) you wish to use.

INPUT CONNECTOR	DIGITAL AUDIO INTERFACE
OPTICAL	EIAJ CP - 340 TYPE II /Consumer
COAXIAL	IEC 958 & EIAJ CP - 340 TYPE II /Consumer
XLR	AES3 & EIAJ CP - 340 & IEC 958 TYPE I /Professional

**(7) Level Meter**

Indicates the level of the input signals. The indicators will reflect changes in the levels that occur as a result of the gain switch. The Level Meter indicates an absolute value with respect to the input signals. At the maximum value, "CLIP" will light.

**DIGITAL MIX OUT**

**(8) SYNC MODE Switch/Lock Indicator**

Provides for selection of the type of signals to which you wish to have the sampling frequency of the output signals be synchronized.

**V - SYNC 30 / V - SYNC 29.97 / V - SYNC 25**

To sync with V - SYNC (HOUSE SYNC), position the knob at the V - SYNC setting (30/29.97/25 kHz) which matches the frequency of the signals that will be input to the V - SYNC terminal. The Lock indicator will light after signals (matching the settings that have been made) have arrived at the V - SYNC terminal, and sync has been achieved with respect to the sampling frequency.

**INTERNAL**

The sampling frequency will be that which has been selected using the SAMPLING RATE switch (the Lock indicator will light).

**WORD CLOCK**

Set the switch to this position when wishing to sync with WORD CLOCK. When WORD CLOCK is input to the WORD CLOCK terminal, the output sampling frequency will be synchronized to the same frequency as WORD CLOCK. The Lock indicator will light when a satisfactory WORD CLOCK has been input (synchronization with WORD CLOCK can be achieved when the frequency is 48/44.1/32 kHz. +/- 0.2%).

**INPUT A**

The output sampling frequency will be the same as the sampling frequency of the signals that have been input to DIGITAL STEREO IN A. The Lock indicator will light when the signals that have arrived at DIGITAL STEREO IN A have been locked onto.

\* When INPUT A has been selected, the CAPTURE RANGE will automatically be placed at "NARROW," regardless of the setting that has been made using the CAPTURE RANGE switch (dip switch) for DIGITAL STEREO IN A.

**«IMPORTANT»**

When the switch is set to V - SYNC (30/29.97/25), WORD CLOCK, or INPUT A, the output sampling frequency will not be determined until synchronization signals (V - SYNC, WORD CLOCK, or INPUT A) that correspond with the switch setting have been input.

**(9) SAMPLING RATE Switch**

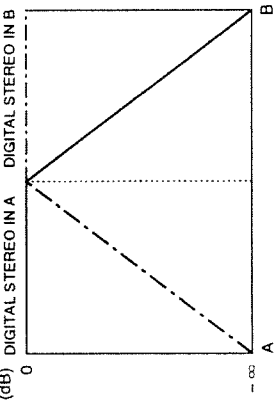
Provides selection of the sampling frequency of the output signals.

**(10) ATTENUATOR**

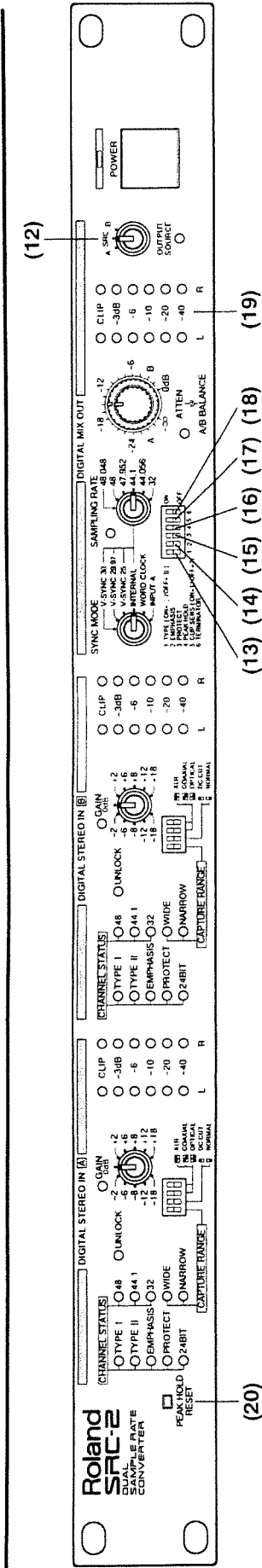
Adjusts the output level of the signals. The indicator (at the knob's lower-left) will light whenever the knob is placed at any position other than 0 dB.

**(11) A / B BALANCE Knob**

Adjusts the balance (mix ratio) for DIGITAL STEREO IN A/B.



The indicator (at the knob's lower-left) will light whenever the ring is located at any position other than the center detent position.



**(12) OUTPUT SOURCE Switch**

This switch allows you to determine whether the input signals are to be mixed for output, or are to be output directly without being routed through the mixing circuit. When set to "SRC," the signals that have arrived at DIGITAL STEREO IN A and B will be mixed for output. The direct output of either signals (from DIGITAL STEREO IN A or those from B) can be obtained by setting the switch at the A or B position. When set to A or B, the indicator below the knob will light.

**(13) Dip Switch 1, TYPE**

This switch provides a selection between two forms of Channel Status for the output signals. Select the form which matches the interface format of the device you are using.

ON : TYPE I (Professional)  
 OFF : TYPE II (Consumer)

**(14) Dip Switch 2, EMPHASIS**

Emphasis is applied to the output signals when this switch is turned ON.

\* Signals that already had emphasis applied to them when input are output with the emphasis intact.

**(15) Dip Switch 3, PROTECT**

When this switch is turned ON, the digital copy protection bit (L bit) is turned ON for the Channel Status of Type II data, and protection is thereafter applied to the output signals.

**(16) Dip Switch 4, PEAK HOLD**

Provides for selection of the desired type of Peak Hold display.

ON : The Peak Hold is continued even when the level decreases.  
 OFF : Peak Hold lasts for approximately 1 second.

\* To temporarily reset Peak Hold, press the PEAK HOLD RESET button.

**(17) Dip Switch 5, CLIP SENS**

This switch allows you to change the sensitivity of the Level Meter, that is, the conditions necessary for "CLIP" to light.

ON (1) : Lights when even 1 sample of the sampling frequency exceeds the maximum level.  
 OFF (3) : Lights when the maximum level has been exceeded throughout 3 or more samples of the sampling frequency.

**(18) Dip Switch 6, TERMINATOR**

When this switch is turned ON, a terminator (75 ohms) is activated with respect to the V - SYNC/WORD CLOCK input terminals.

\* Turn this switch ON only when this unit is positioned at the end of the chain when configured for V - SYNC or WORD CLOCK.

**«NOTE»**

Since the terminator in this unit employs an electronic switching device, the terminator will no longer function once the power is turned off. For this reason, you must leave this unit ON if you need to have the terminator active.

**(19) Level Meter**

Provides display of the overall level of the output signals.

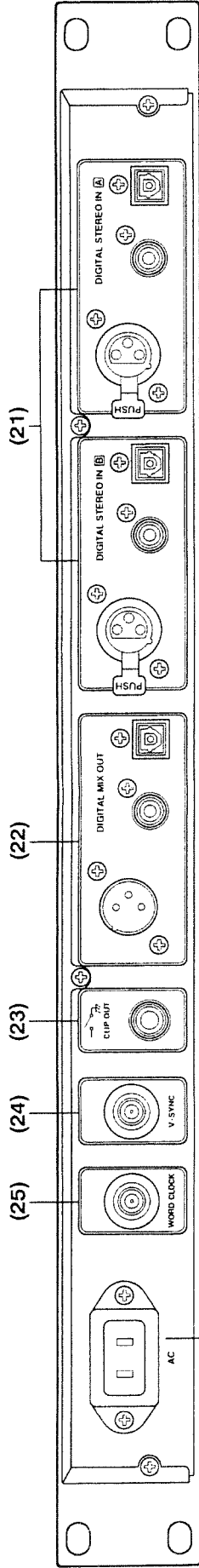
The Level Meter indicates an absolute value with respect to the output signals. At the maximum value, "CLIP" will light.

**OTHERS**

**(20) PEAK HOLD RESET Switch**

When Dip Switch 4 (PEAK HOLD) is ON, this switch can be pressed to reset the Level Meter's Peak Hold indication. Additionally, by pressing this switch once after the unit is powered up, the CLIP OUT jack will thereafter remain active.

# (Rear Panel)



Note that the above does not apply to units designed for 117V use.

## (21) DIGITAL STEREO IN A/B Connectors

These connectors accept the input of the digital audio signals. Three types are provided: OPTICAL, COAXIAL, and XLR.

\* Once you have selected the connector you will be using, you need to set the Digital Audio Interface Selection Switches on the front panel to the corresponding connector type.

## (22) DIGITAL MIX OUT Connectors

These connectors provide output of the digital audio signals. Three types are provided: OPTICAL, COAXIAL, and XLR.

## (23) CLIP OUT Jack

This jack incorporates an electronic switch that is turned ON whenever the conditions listed below (abnormal states) are encountered.

- When a Level Meter's CLIP indicators light (DIGITAL STEREO IN A/B, DIGITAL MIX OUT).
- When the lock on the input signals has been lost; or when the input of signals has been interrupted.
- When the Lock indicator goes out.

\* In the case of b or c, or when CLIP lights only momentarily, the switch is turned ON for only about a second.

A buzzer or lamp could be connected to this jack, thus allowing you to easily tell when an abnormality has occurred, even when you need to be at a distance from the unit.

In order to activate this jack's switch, you need to press the PEAK HOLD RESET switch after the unit is powered up.

## «Jack Specifications»

Employs an NPN transistor serving as an open-collector electronic switch.

Jack Polarity	Pin : positive
	Sleeve : ground
Max. Switchable Current	DC 1 A
Max. Applied Voltage	DC + 30 V

## (24) V - SYNC Input Terminal

To synchronize the sampling frequency of the output signals with V - SYNC (HOUSE SYNC), V - SYNC is input here.

## (25) WORD CLOCK Input Terminal

To synchronize the sampling frequency of the output signals with WORD CLOCK, WORD CLOCK is input here.

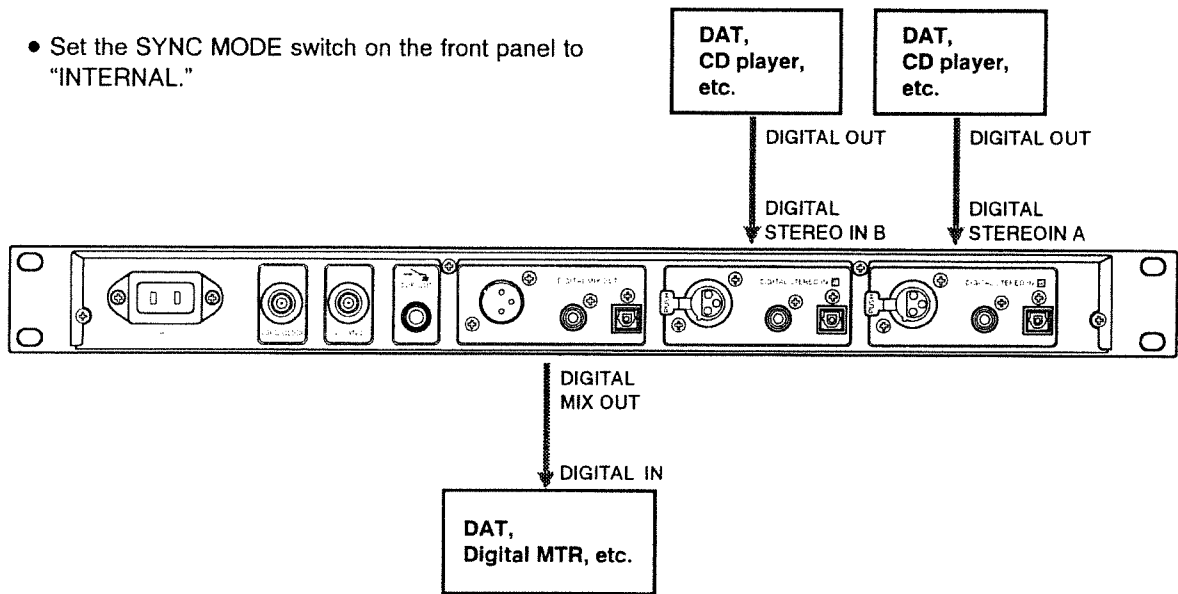


# ■ Making the Connections

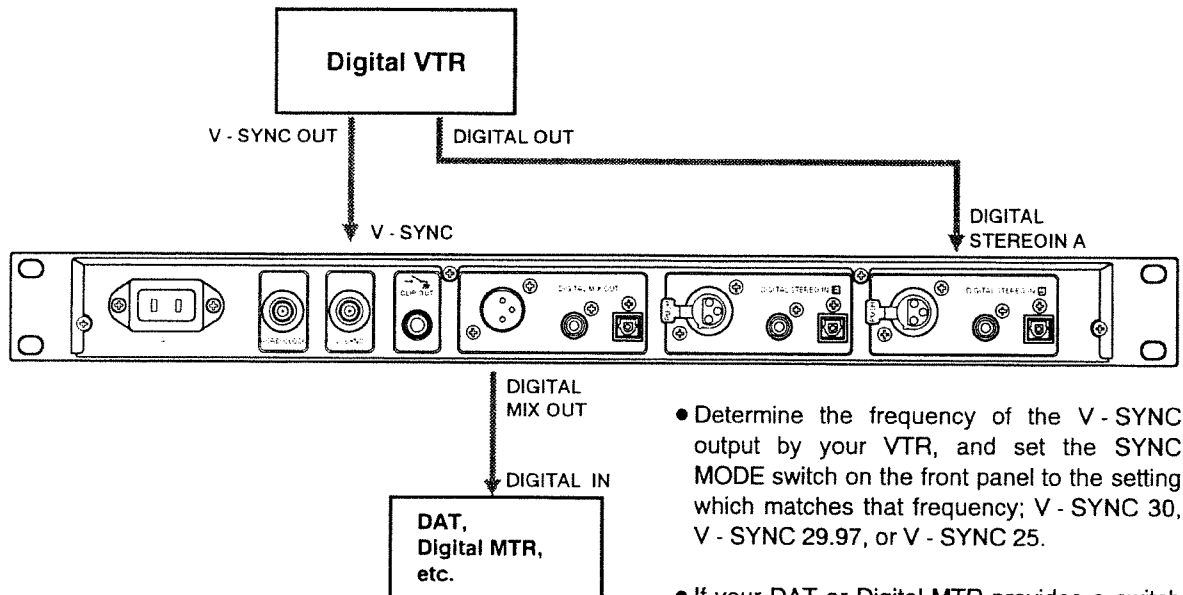
«NOTE» Certain types of devices that you may choose to connect to this unit's outputs could result in the generation of noise at moments such as when you move the OUTPUT SOURCE switch. Should you encounter this problem, you will need to turn down the volume on the external unit whenever you suspect that noise might be produced.

## ● Using the Unit as a Digital Mixer.....

- Set the SYNC MODE switch on the front panel to "INTERNAL."



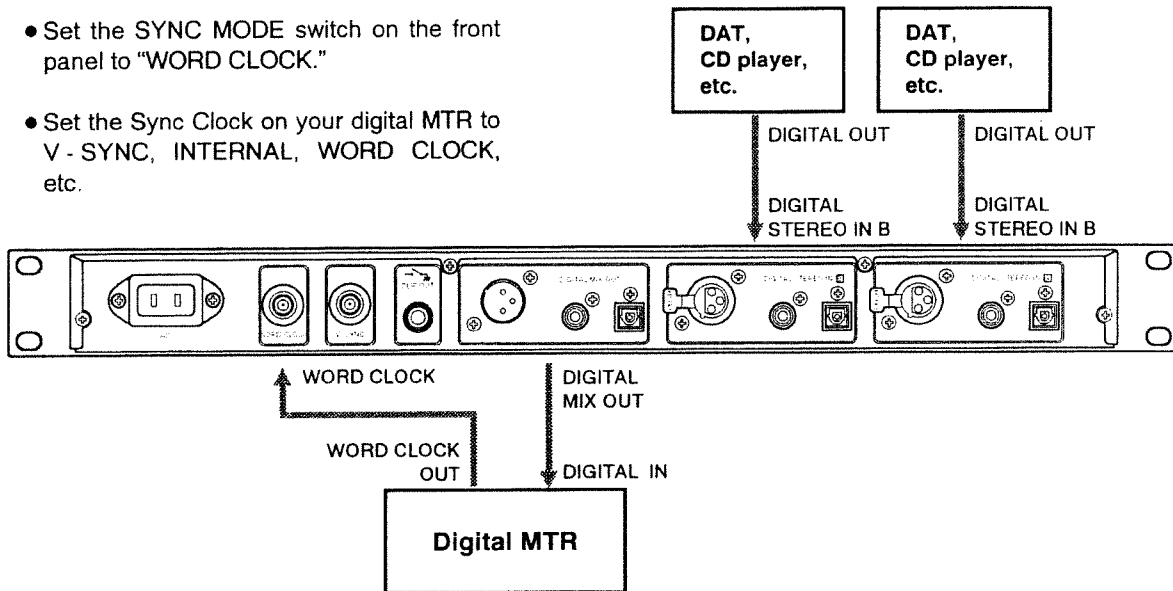
## ● Syncing with V - SYNC (HOUSE SYNC) .....



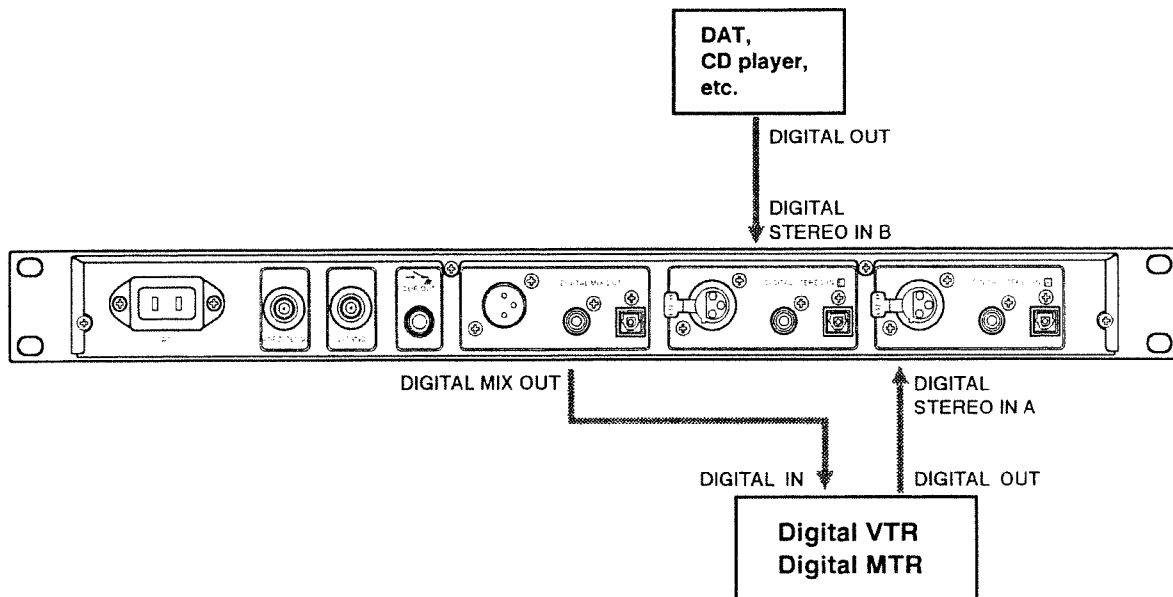
- Determine the frequency of the V - SYNC output by your VTR, and set the SYNC MODE switch on the front panel to the setting which matches that frequency; V - SYNC 30, V - SYNC 29.97, or V - SYNC 25.
- If your DAT or Digital MTR provides a switch for changing the clock (WIDE/NARROW), set it to WIDE.

## ● Syncing with WORD CLOCK .....

- Set the SYNC MODE switch on the front panel to "WORD CLOCK."
- Set the Sync Clock on your digital MTR to V - SYNC, INTERNAL, WORD CLOCK, etc.



## ● Syncing with INPUT A .....



- Set the SYNC MODE switch on the front panel to "WORD CLOCK."
- Set the Sync Clock on your digital MTR/VTR to V - SYNC, INTERNAL, WORD CLOCK, etc.

# ■ The Digital Audio Interface on the SRC-2

## ● Input Standard

Regardless of the format (Type I / II ) of the signals that are input, this unit captures all 24 bits; 20 bits for the audio sample word, and the audio auxiliary-use 4 bits.

### Channel Status

Whatever Channel Status may be included in the input signals, all data-except that which is relevant (such as Emphasis)—will be ignored.

### Emphasis

This unit only recognizes Emphasis having a fixed rate of 50/15 microseconds.

## ● Output Standard

### Channel Status

TYPE I (Professional) .....

Byte	Bit							
	0	1	2	3	4	5	6	7
0	1	0	1	a	0	b	b	b
1	0	0	0	0	0	0	0	0
2	0	0	1	0	0	0	0	0
3—22	0	0	0	0	0	0	0	0
23	Generates CRCC							

a : 0=Emphasis OFF  
1=Emphasis ON

bbb : 101= 48.048kHz sampling frequency  
001= 48kHz sampling frequency  
101= 47.952kHz sampling frequency  
010= 44.1kHz sampling frequency  
110= 44.056kHz sampling frequency  
011= 32kHz sampling frequency

Those who need to alter bit 15 (L bit) for TYPE II should contact the nearest Roland Service representative.

TYPE II (Consumer) .....

Bit	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0	0	a	b	0	0	0	0	0	0	0	0	0	0	0	1
16	0	0	0	0	0	c	c	0	0	0	0	0	0	0	0	0
Bits 32—191 are all 0																

a : 0 = Digital copy protected      1 = Digital copy permitted

b : 0 = Emphasis OFF      1 = Emphasis ON

cc : 00 = 44.1 kHz sampling frequency  
01 = 48 kHz sampling frequency  
11 = 32 kHz sampling frequency

# SPECIFICATIONS

## DIGITAL STEREO IN A/B

### Digital Input Connectors

Input Connector	Digital Audio Interface
OPTICAL	EIAJ CP-340 TYPE II /Consumer
COAXIAL	IEC 958 & EIAJ CP-340 TYPE II /Consumer
XLR	AES3 & EIAJ CP-340 & IEC 958 TYPE I /Professional

### Number of Bits for Digital Audio Input

24bit(20-bit audio sample word, +4-bit audio auxiliary)

### Indicators (LEDs)

- TYPE I /TYPE II /EMPHASIS/PROTECT/AUX/48/44.1/32 (CHANNEL STATUS)
- WIDE/NARROW (CAPTURE RANGE)
- UNLOCK
- GAIN
- - 40/ - 20/ - 10/ - 6/ - 3db/CLIP (L/R)

### Dip Switch Settings

#### CAPTURE RANGE

WIDE	28~54KHz (variable)
NARROW	48K/44.1K/32kHz $\pm$ 0.2%

#### DC CUT

DC CUT	Digital signals below 15Hz at a 48kHz sampling frequency, below 14 Hz at 44.1kHz, and below 10Hz at 32kHz (all approximate) will be cut.
NORMAL	

#### Input Connectors

XLR/COAXIAL/OPTICAL

### GAIN

- 18/ - 12/ - 8/ - 6/ - 2/0/+2/+6/+8/+12/+18dB

## DIGITAL MIX OUT

### Digital Output Connectors

OPTICAL	EIAJ CP-340 TYPE II /Consumer
COAXIAL	IEC 958 & EIAJ CP-340 TYPE II /Consumer
XLR	AES3 & EIAJ CP-340 & IEC 958 TYPE I /Professional

### Maximum Number of bits for Digital Audio Output

24bit(20-bit audio sample word, +4-bit audio auxiliary)

### Digital Audio Output Sampling frequency

- 48.048kHz/48kHz/47.952kHz/44.1kHz/44.056kHz/32KHz (V - SYNC /INTERNAL)
- 48kHz/44.1kHz/32kHz  $\pm$  0.2%(WORD CLOCK/INPUT A)

### SYNC MODE Switch

- V - SYNC 30/V - SYNC 29.97/V - SYNC 25/WORD CLOCK/INTERNAL/INPUT A

### SAMPLING RATE Switch

48.048/48/47.952/44.1/44.056/32

### Dip Switch Settings

- 1 TYPE(Channel Status)  
ON=TYPE I /OFF=TYPE II
- 2 EMPHASIS(Channel Status)  
ON/OFF
- 3 PROTECT(Channel Status)  
ON/OFF
- 4 PEAK HOLD(Level Meter)  
ON/OFF
- 5 CLIP SENS(Level Meter)  
ON=1/OFF=3
- 6 TERMINATOR(V - SYNC /WORD CLOCK)  
ON/OFF

● **ATTEN**  
 - ∞ to 0dB

● **A/B BALANCE**  
 (A) - ∞ — 0 — - ∞ dB(B)

● **OUTPUT SOURCE**  
 A/SRC/B

● **Indicators (LEDs)**

LOCK  
 ATTEN A/B BALANCE  
 - 40/ - 20/ - 10/ - 6/ - 3dB/CLIP

■ **OTHERS**

● **PEAK HOLD RESET Switch**  
 When pushed ON, the PEAK HOLD LED is cleared.

● **V - SYNC Input Terminal**  
 Connector Type            BNC  
 Input Impedance         75 Ω (TERMINATOR ON)  
 Input Signals             V - SYNC(HOUSE SYNC)/  
                                  PAL/SECAM/NTSC

● **WORD CLOCK Input Terminal**  
 Connector Type            BNC  
 Input Impedance         75 Ω (TERMINATOR ON)  
 Input Signal Level        TTL Level  
 Input Signal                WORD CLOCK  
                                  (48kHz/44.1kHz/32kHz ± 0.2%)

● **CLIP OUT Jack**

«**Jack Specifications**»

Employs an NPN transistor serving as an open-collector electronic switch.

Jack Polarity                Pin : positive  
                                   Sleeve : ground  
 Max. Switchable Current   DC 1 A  
 Max. Applied Voltage      DC + 30 V

● **Power Supply**  
 AC117V / 230V / 240V

● **Power Consumption**  
 11W

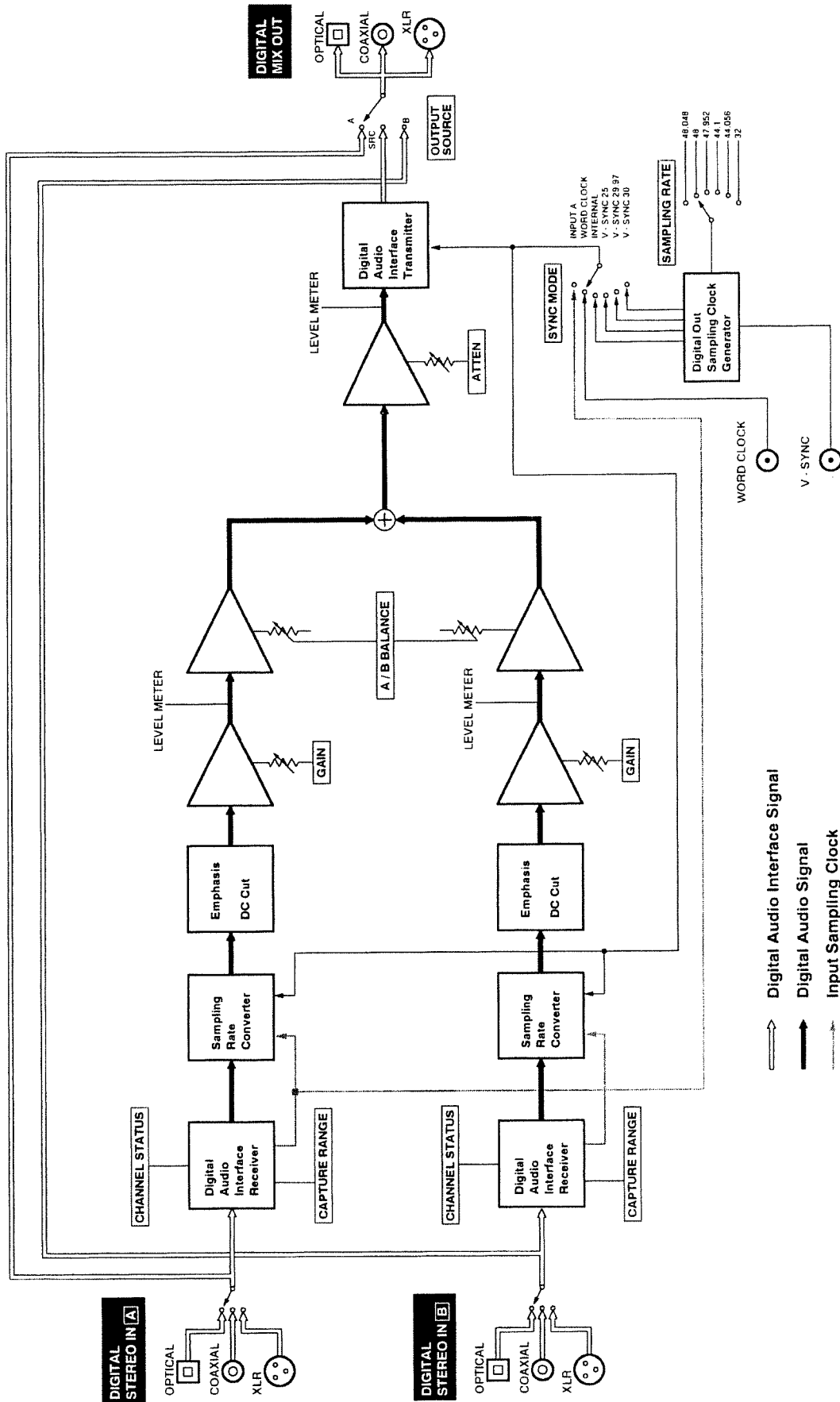
● **Dimensions**  
 482(W) × 306(D) × 44.8(H)mm  
 19(W) × 12-1/16(D) × 1-13/16(H)inches

● **Weight**  
 3.9kg / 8lbs 10 oz

● **Accessories**  
 Owner's Manual  
 Power Cord(AC230V, 240V)

※ **The specifications for this product are subject to change without prior notice.**

# SRC-2 BLOCK DIAGRAM



- ⇨ Digital Audio Interface Signal
- ⇨ Digital Audio Signal
- ⇨ Input Sampling Clock
- ⇨ Output Sampling Clock

# CORRECTIONS

We apologize that there are some wrong descriptions in the Owner's Manual of SRC-2. Please correct as follows.

■ P. 5 : INDICATOR TYPE I in " (1) CHANNEL STATUS Indicators"

(Wrong) TYPE I (industrial - use)

(Correct) TYPE I (professional - use)

■ P. 6 : Add the following sentences at the "IMPORTANT" in " (8) SYNC MODE Switch/Lock Indicator"

The output sampling frequency will be unstable in the following conditions :

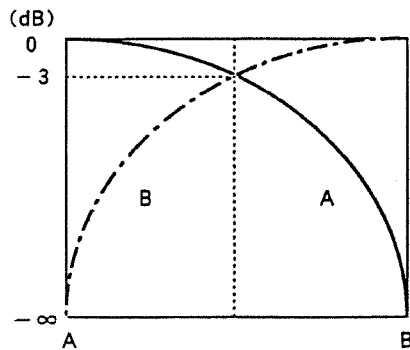
\*This switch is set to "V - SYNC" but no V - SYNC signal is fed into the V - SYNC Input Terminal.

\*This switch is set to "WORD CLOCK" but no WORD CLOCK signal is fed into the WORD CLOCK Input Terminal.

\*This switch is set to "INPUT A" but no digital audio signal is fed into the INPUT A Connector.

■ P. 6 : Add the following sentence in " (11) A/B BALANCE Knob"

The characteristic curve of the A/B balance can be changed from the one shown in the owner's manual to the following one.



■ P. 7 : Add the following sentences in " (12) OUTPUT SOURCE Switch"

When this switch is set to "A" / "B", please be careful about the following points.

\*The signals fed into the "DIGITAL STEREO IN A" / "B" will pass the buffer then be output through the DIGITAL MIX OUT without being modified, including sampling frequency alteration, digital audio format change, etc.

\*Be sure to use the XLR Output to output the signals fed through the XLR (TYPE I) Input. Similarly, use the OPTICAL/COAXIAL Output for the signals input through the OPTICAL/COAXIAL (TYPE II) Input.

■ P. 7 : Add the following sentences in " (13) Dip Switch 1, TYPE"

When this switch is set to TYPE I, be sure to use the XLR Output. When it is set to TYPE II, use the OPTICAL or COAXIAL Output.

■ P. 7 : " (14) Dip Switch 2, EMPHASIS"

(Wrong) \*Signals that already had emphasis applied to them when input are output with the emphasis intact.

(Correct) \*All incoming emphasized signals will be automatically "DE - Emphasized" at the input. Then you can choose to turn Emphasis on or off at the output.

■ P. 7 : " (15) Dip Switch 3, PROTECT"

(Wrong) When this switch is turned ON, the digital copy protection bit (L bit) is turned ON for the Channel Status of Type II data, and protection is thereafter applied to the output signals.

(Correct) When this switch is turned ON, the digital copy protection bit (C bit) is turned ON for the Channel Status of Type II data, and protection is thereafter applied to the output signals, making it impossible to record with DAT. For a detailed explanation about the Copy Protect, refer to "About the SCMS".

■ P. 7 : " (17) Dip Switch 5, CLIP SENS"

(Wrong) ON (1) :Lights when even 1 sample of the sampling frequency exceeds the maximum level.

OFF (3) :Lights when the maximum level has been exceeded throughout 3 or more samples of the sampling frequency.

(Correct) ON (1) :Lights when even 1 sample of the input signal equals the maximum value.

OFF (3) :Lights when three consecutive samples of the input signal equal the maximum value.

■ P. 9 : " ● Syncing with V - SYNC (HOUSE SYNC)"

(Wrong) ● Syncing with V - SYNC (HOUSE SYNC)

(Correct) ● Syncing with V - SYNC

■ P. 11 : Add the following sentences in " ● Input Standard".

All the Sub - codes (4 bits of the audio sample word and audio auxiliary - use 4 bits) and user data output through the CD/DAT will be ignored by the SRC - 2's inputs and therefore will not output from any of the SRC - 2's outputs.



■ P. 11 : Add the following sentences in " ● Output Standard".

"About the SCMS"

The SCMS (Serial Copy Management System) allows you to copy data only once using a digital recording method from the source protected with copyright such as CD/ (previously recorded) DAT tape sold on a market to a DAT tape, and prohibits a tape copying (serial copy) that allows unrestricted recording from a tape recorded with digital signals to other tapes. The SCMS, however, applies only to the TYPE II of the CP - 340/IEC340.

When copying the SRC - 2's data to the DAT equipped with SCMS digitally,

and the Dip Switch 3 on the SRC - 2 is set to ON (Protect ON) :

Data can be copied only once between the SRC - 2 and DAT. That is, the data recorded into the tape can no longer be copied to another DAT.

and the Dip Switch 3 on the SRC - 2 is set to OFF (Protect OFF) :

Data on the SRC - 2 can be copied to DAT's without restriction.

In addition to the above, if you set what so called "L bit" to "0" and set the Dip Switch 3 to ON (Protect ON), no recording to a DAT can be done (with the Dip Switch 3 set to OFF, unstricted data copy can be done).

If you wish to change the "L bit", consult your local Roland Service representative.

■ P. 12 : Add the following sentences in " ● Digital Output Connectors".

The Digital Audio Interface AES3 supports the Level 2 of the AES3/1992 SPEC.

Digital Output Connector Voltage

- COAXIAL 0.5V p - p (with 75  $\Omega$  termination)
- XLR 3.0V p - p (with 110  $\Omega$  termination at 2 - 3 pins)



# Information

When you need repair service, call your local Roland Service Station or the authorized Roland distributor in your country as shown below.

## U. S. A.

Roland Corporation US  
7200 Dominion Circle  
Los Angeles, CA.  
90040-3647, U. S. A.  
☎ (213)685 - 5141

## CANADA

Roland Canada Music Ltd.  
(Head Office)  
5480 Parkwood  
Richmond B. C., V6V 2M4  
CANADA  
☎ (604)270 - 6626

Roland Canada Music Ltd.  
9425 Transcanadienne  
Service Rd. N., St. Laurent,  
Quebec H4S 1V3,  
CANADA  
☎ (514)335 - 2009

Roland Canada Music Ltd.  
346 Watline Avenue,  
Mississauga, Ontario L4Z  
1X2, CANADA  
☎ (416)890 - 6488

## AUSTRALIA

Roland Corporation  
(Australia) Pty. Ltd.  
(Head Office)  
38 Campbell Avenue  
Dee Why West, NSW 2099  
AUSTRALIA  
☎ (02)982 - 8266

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(Australia) Pty. Ltd.  
(Melbourne Office)  
50 Garden Street  
South Yarra, Victoria 3141  
AUSTRALIA  
☎ (03)241 - 1254

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Ancells Business Park  
Fleet, Hampshire GU13  
8UY, UNITED KINGDOM  
☎ 0252 - 816181

Roland(U.K.) Ltd.,  
Swansea Office  
Atlantic Close, Swansea  
Enterprise Park, Swansea,  
West Glamorgan SA79FJ,  
UNITED KINGDOM  
☎ (0792)700 - 139

## ITALY

Roland Italy S. p. A.  
Viale delle Industrie 8  
20020 ARESE MILANO  
ITALY  
☎ 02 - 93581311

## SPAIN

Roland Electronics  
de España, S. A.  
Calle Bolivia 239  
08020 Barcelona, SPAIN  
☎ 93 - 308 - 1000

## GERMANY

Roland Elektronische  
Musikinstrumente  
Handelsgesellschaft mbH.  
Oststrasse 96, 2000  
Norderstedt, GERMANY  
☎ 040/52 60 090

## FRANCE

Musikengro  
102 Avenue Jean-Jaures  
69007 Lyon Cedex 07  
FRANCE  
☎ (7)858 - 54 60

Musikengro (Paris Office)  
Centre Region Parisienne  
41 rue Charles-Fourier,  
94400 Vitry s/Seine  
FRANCE  
☎ (1)4680 86 62

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Houtstraat 1  
B-2260 Oevel-Westerlo  
BELGIUM  
☎ (0032)14 - 575811

## DENMARK

Roland Scandinavia A/S  
Langebrogade 6  
Box 1937  
DK-1023 Copenhagen K.  
DENMARK  
☎ 31 - 95 31 11

## SWEDEN

Roland Scandinavia A/S  
DanvikCenter 28 A, 2 tr.  
S-131 30 Nacka  
SWEDEN  
☎ 08 - 702 00 20

## NORWAY

Roland Scandinavia  
Avd. Norge  
Lilleakerveien 2  
Postboks 95 Lilleaker  
N-0216 Oslo 2  
NORWAY  
☎ 02 - 73 00 74

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Fazer Musik Inc.  
Länsituulentie  
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SF-02101 Espoo  
FINLAND  
☎ 0 - 43 50 11

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(NZ) Ltd.  
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Eden, Auckland 3,  
NEW ZEALAND  
☎ (09)3098 - 715

## SWITZERLAND

Musitronic AG  
Gerberstrasse 5, CH-4410  
Liestal, SWITZERLAND  
☎ 061/921 16 15

Roland CK (Switzerland)  
AG  
Postfach/Hauptstrasse 21  
CH-4456 Tenniken  
SWITZERLAND  
☎ 061/98 60 55  
Repair Service by  
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Strasse 4  
A-6021 Innsbruck Box 591  
AUSTRIA  
☎ (0512)63 451

## GREECE

V. Dimitriadis & Co. Ltd.  
2 Phidiou Str., GR 106 78  
Athens, GREECE  
☎ 1 - 3620130

## PORTUGAL

Casa Caius Instrumentos  
Musicais Lda.  
Rua de Santa Catarina 131  
Porto, PORTUGAL  
☎ 02 - 38 44 56

## HUNGARY

Intermusica Ltd.  
Warehouse Area 'DEPO'  
Torokbalint, Budapest  
HUNGARY  
☎ (1)1868905

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ISRAEL  
☎ 972 - 3 - 5283015

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Radex Sound Equipment  
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P.O.Box 2046, Nicosia  
CYPRUS  
☎ 453426, 466423

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Street, Ard El Golf,  
Heliopolis, Cairo, EGYPT  
☎ 2917803 - 665918

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R. Alvarenga 591  
CEP-05509 Sao Paulo  
BRAZIL  
☎ (011)813 - 7967  
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Instrumentos Musicais  
Av. Ceci. No.578 Centro  
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Guadalajara s.a. de c.v.  
Av. Corona No. 202 S.J.  
C.P.44100  
Guadalajara, Jalisco  
MEXICO  
☎ (36)13 - 1414

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Tsuen Wan, New  
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☎ 415 - 0911

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261 2nd Floor Nak-Won  
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☎ (02) 742 8844

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