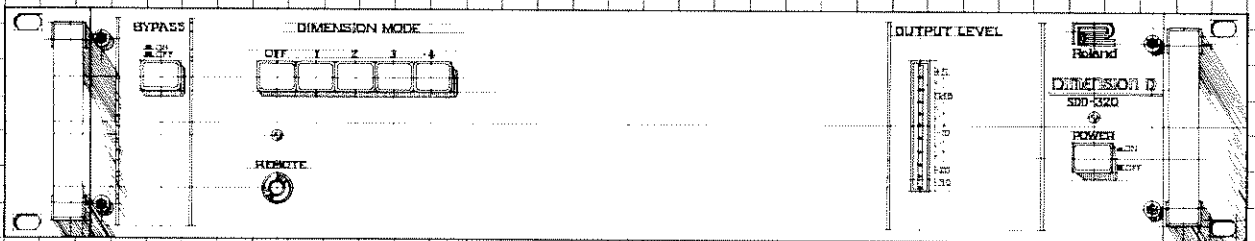


Roland

DIMENSION D SDD-320

OWNER'S MANUAL



The Roland Rack

DIMENSION D

The SDD-320 Dimension D is a specially designed chorus effect unit for adding spatial effects to stereo and monaural sound sources. Monaural inputs are converted from a single point sound source into a sound which fills the entire stereo field. The Dimension D gives a new dimension without the apparent movement of sound produced by most other chorus devices.

FEATURES

- Both balanced and unbalanced inputs and outputs for ease of use in the studio or on the stage.
- Click-free noiseless switching between four different dimension modes.
- Remote controlled dimension EFFECT/NORMAL function.
- Fast acting LED level indicators.
- Low noise (S/N greater than 95dB, "A" weighted).
- Standard 19" rack mount.

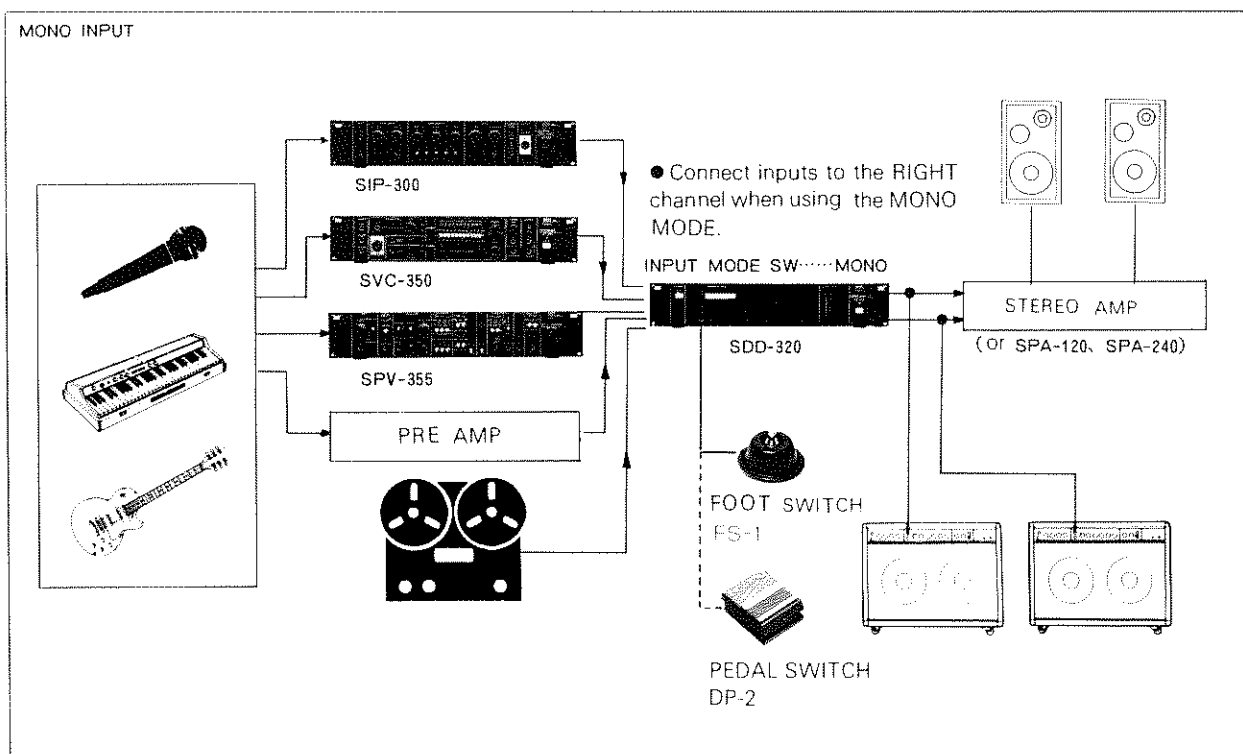
BEFORE STARTING

- Make sure that the line voltage in your area meets the requirements given in the specifications.
- Check with your local Roland dealer if you want to use the SDD-320 in a foreign country.
- Plug the SDD-320 in before turning on the power switch.

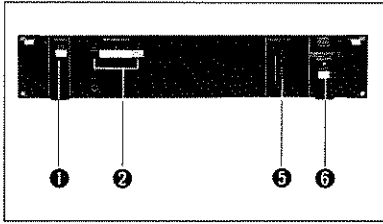
PRECAUTIONS

- Do not open this unit.
- Unplug this unit when it is not to be used for long periods of time. Unplug by grasping the plug rather than pulling on the cord.
- Be careful not to place heavy objects on the power cord.
- Avoid using this unit in very high or low temperature locations. Also keep away from heaters and coolers since this type of equipment will affect circuit stability.
- Avoid using this unit in very dusty or humid places.
- If it is necessary to use this unit in an area with neon or fluorescent lights, keep it as far away from these lights as possible since they will induce high levels of noise. Sometimes changing the angle of this unit in relation to the lights will help reduce noise.
- When connecting this unit, plug the cord into the external amplifier first, then plug the other end of the cord into the SDD-320 output. To disconnect, remove the cord from the SDD-320 first, then from the amplifier.
- To clean this unit, wipe with a cloth dampened with a neutral cleanser. Do not use solvents such as paint thinner.

CONNECTION



OPERATION



1. After making the connections, set the INPUT MODE switch (A) (rear panel) as needed. Set both the BYPASS switch ① and the DIMENSION MODE selector ② at OFF.

2. Turn on the POWER switch ⑥ and check that the pilot light above goes on.

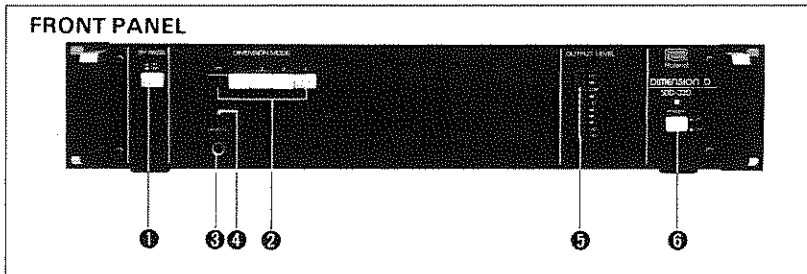
3. Adjust the level of the external sound source so that the OUTPUT LEVEL INDICATOR ⑤ reads close to "0".

● Using levels which drive the LEVEL INDICATOR ⑤ above "0" can cause distortion. Using levels which cause the

LEVEL INDICATOR ⑤ to read below "0" will increase the noise level in the output signal.

4. Select the desired DIMENSION MODE ②

NAMES AND FUNCTION OF CONTROLS



BYPASS Switch ①

The BYPASS switch ① makes direct connections between the inputs and outputs. This means that the POWER switch ⑥ may be left OFF when the SDD-320 is in the BYPASS mode.

DIMENSION MODE Selectors ②

Selects the dimension mode. MODE 1 produces the softest effect; MODE 4 produces the strongest effect. At OFF, the sound passes through the SDD-320 without change.

REMOTE Jack ③

For remote switching between the OFF mode and the DIMENSION MODE using a foot switch (Roland FS-1 or DP-2; sold separately). To use, select a DIMENSION MODE ② and use the foot switch to switch between the selected mode and normal sound.

● As an example of use: With an organ as the input sound, play a progression of block chords and use the foot switch so that some of the chords are "straight" and others are "Dimension D" chords. If the Roland DP-2 Pedal Switch is used, instant changes can be made even in very rapid passages. The DIMENSION MODE is in effect with the DP-2 depressed and OFF (normal sound) when released.

EFFECT INDICATOR ④

Lights when the DIMENSION MODE is in effect.

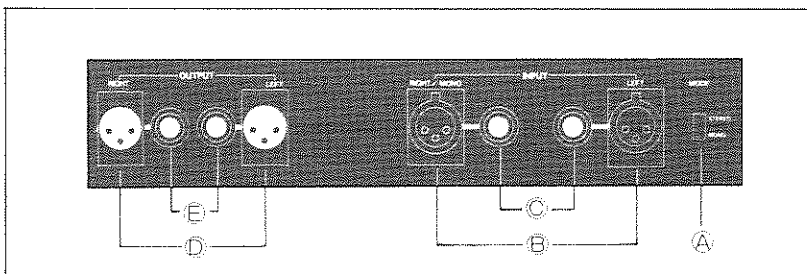
● Works with both the REMOTE jack ③ and the DIMENSION MODE selectors ②.

OUTPUT LEVEL INDICATOR ⑤

Shows combined output level. (0dB indication = +4dBm output).

● This indicator does not work when the BYPASS switch ① is ON (BYPASS MODE).

POWER Switch ⑥ with pilot lamp



INPUT MODE Switch (A)

Selects the input mode. At MONO, left input is disconnected and right input serves both dimension channels.

INPUT Connectors (B)

Balanced inputs (13k Ω ; max. input: +14dBm).

Pin assignments:

- Pin 1: shield (ground)
- Pin 2: cold
- Pin 3: hot

INPUT Jacks (C)

Unbalanced inputs (26k Ω ; max. input: +14dBm).

● Do not use the balanced and unbalanced outputs simultaneously.

OUTPUT Connectors (D)

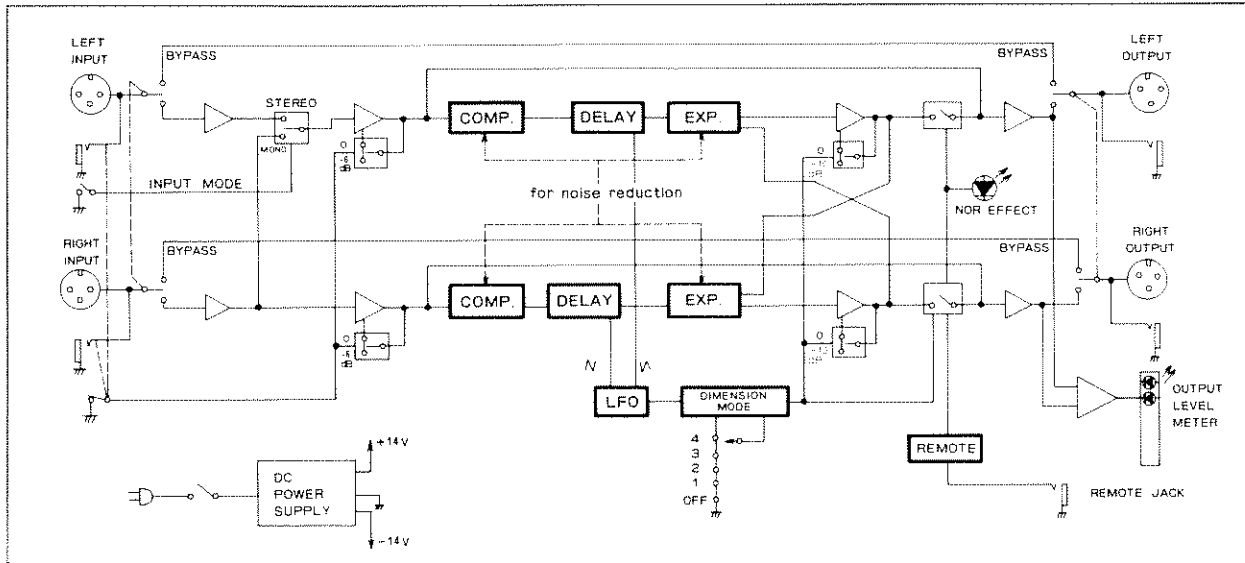
Balanced output (600 Ω ; nom. level: +4dBm). Pin assignments same as INPUT connectors (B).

OUTPUT Jacks (E)

Unbalanced output (600 Ω ; nom. level: +4dBm).

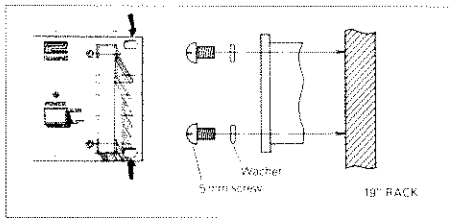
● Do not use balanced and unbalanced outputs simultaneously.

Note: If balanced inputs are used, use balanced outputs and vice versa. Do not use balanced outputs when using unbalanced inputs, or unbalanced outputs when using balanced inputs.



● Rack Mounting the SDD-320

The SDD-320 can be mounted in a standard 19" rack using 5mm screws as shown in the drawing.



● SPECIFICATIONS

SDD-320 DIMENSION D

Input Level	
NOMINAL	+4dBm
MAXIMUM	+14dBm
Input Impedance	
BALANCED	26kΩ
UNBALANCED	13kΩ
Output Level	
NOMINAL	+4dBm
Load Impedance	
BALANCED	greater than 600Ω
UNBALANCED	greater than 600Ω
Gain	
(MODE = OFF)	0dB
S/N	
("A" WEIGHTED)	greater than 95dB
	[0dBm = 0.775V RMS]

- **Switches**
- DIMENSION MODE (OFF, 1, 2, 3, 4) ② :1
- BYPASS (ON, OFF) ① :1
- INPUT MODE (STEREO, MONO) ④ :1
- POWER Switch ⑥ :1
- **Indicators**
- OUTPUT LEVEL ⑤ :1
- EFFECT ④ :1
- POWER Pilot Lamp :1
- **Jacks**
- Input STANDARD Phone (L, R) ② :2
- XLR (L, R) ③ :2
- Output STANDARD Phone (L, R) ② :2

XLR (L, R) ③ :2
Remote (EFFECT-NORMAL) ③ :1

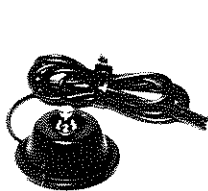
POWER CONSUMPTION
8W

POWER REQUIREMENTS
100V 50/60 Hz
117V 50/60 Hz
220V 50/60 Hz
240V 50/60 Hz

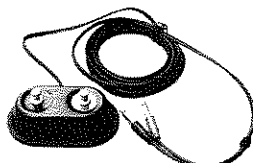
DIMENSIONS
482(W) x 92(H) x 252(D) mm
Type EIA-2U rack mount

Weight
4 kg

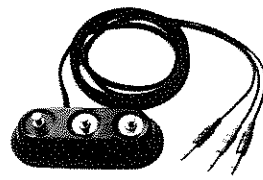
OPTION



FOOT SWITCH FS-1



FOOT SWITCH FS-2



FOOT SWITCH FS-3



PEDAL SWITCH DP-2

Roland®

10240

UPC 10240



10961

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