

To get most out of the AD202 and to avoid unnecessary trouble, please read this manual before operating.

FEATURES

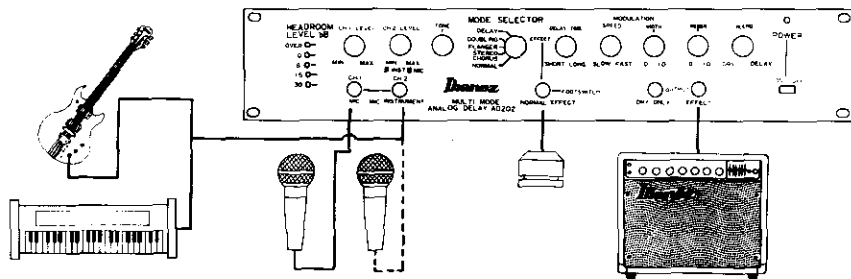
- Switch selectable Delay, Doubling, Stereo Chorus and Flanger.
- Newly developed, high performance BBD ICs and Variable Filter provide a delay range of 2.6ms to 400ms, incredible S/N and bandwidth.
- Compressor circuitry reduces the low BBD noise even lower.
- Standard 19 inch rack mount front panel.
- Two inputs enable simultaneous use of two microphones or a microphone and an instrument.
- Five step LED ladder displays the input level to the delay section for constant visual monitoring.
- Separate mixed and dry only outputs provide expanded versatility and spacious stereo effects when using two amplifiers.
- LED indicator displays EFFECT/NORMAL status.

OPERATING PRECAUTION

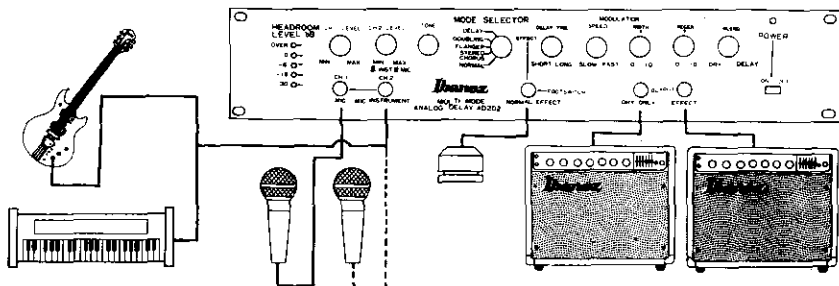
- Power Supply : 117 VAC (T-TYPE) or 220-240 VAC (R, U & S-TYPE)
- Operate unit only if temperature is within the range of 0°C (32°F) to 40°C (104°F)
- The AD202 is constructed from precision parts, Do not allow liquids or other contaminants in contact with the unit.
- Do not plug or unplug AC power cord while using at loud volumes. Amplifier or speaker damage may result.

CONNECTION DIAGRAMS

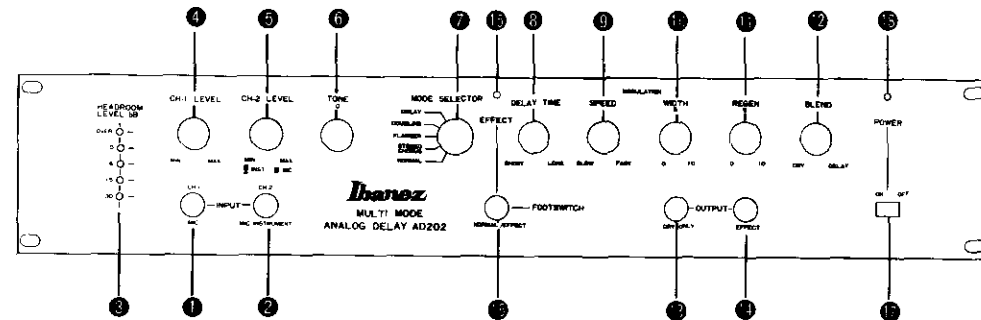
STANDARD



STEREO EFFECTS



FRONT PANEL



1 CHANNEL 1 INPUT

For microphones

2 CHANNEL 2 INPUT

For microphones and instruments.

3 HEADROOM INDICATOR

-20dB to 0dB. Displays the input level of the delay section. INPUT LEVEL controls should be adjusted so that peak input signal just lights the top LED. The REGEN and TONE controls also affect the input level to the delay stage. After adjusting these controls, it may be necessary to readjust the INPUT LEVEL controls.

4 CHANNEL 1 LEVEL

Turning CW (clockwise) increases CHANNEL 1 input level.

5 CHANNEL 2 LEVEL

Controls CHANNEL 2 input level. When using microphone in this input, pull knob.

6 TONE CONTROL

Provides 12dB cut or boost at 7KHz. Turning CW increases highs.

7 MODE SELECTOR

Selects one of four effects (Delay, Doubling, Stereo Chorus and Flanger) or normal (no effect) operation.

8 DELAY TIME

Adjusts the delay time for DELAY and DOUBLING modes. Does not affect the delay time in STEREO CHORUS or FLANGER modes.

9 MODULATION SPEED

Controls the rate at which the delay time is swept.

10 MODULATION WIDTH

Adjusts the amount of delay time shift while sweeping. Especially useful when special effects such as doubling, vibrato, chorus and flanging are desired.

11 REGENERATION

Varies the amount of signal fed back within the delay section. Controls the number of repeats. Variable from no affect to oscillation. Does not affect CHORUS mode.

12 BLEND

Adjusts the mix between delay and dry sound. Turning CCW emphasizes the dry sound. CW emphasizes delay sound.

13 DRY ONLY OUTPUT

Carries only the dry (no effect) signal. For stereo effects with two amplifiers, this output connects to one amplifier and the EFFECT OUTPUT connects to the other amplifier.

14 EFFECT OUTPUT

Carries the mixed delay and dry sound. For normal operation, using one output, use this output.

15 EFFECT INDICATOR

Displays EFFECT/NORMAL status.

16 FOOTSWITCH

EFFECT/NORMAL footswitch jack.

17 POWER SWITCH

Push to turn unit on or off.

18 PILOT LAMP

Indicates power on or off.

SPCIFICATIONS

● Input Characteristics

Channel 1	
Input Impedance	Unbalanced 5K ohms
Sensitivity	-30 dBm
Channel 2	
Input Impedance	Unbalanced 5K ohms(Mic)/100K ohms(INST.)
Sensitivity	-30 dBm(Mic)/-10 dBm(INST.)

● Output Characteristics

Dry Only/EFFECT	
Output Impedance	Unbalanced 10K ohms
Output Level	0 dBm

● Delay Time/Frequency Responce

Delay	60 ms - 400 ms/60 Hz-2.1KHz(-3dB, +2dB)
Doubling	12 ms - 80 ms/60 Hz-4.2KHz(-3dB, +2dB)
Stereo Chorus	3.2 ms - 8 ms/130 Hz-4.4KHz(-3dB, +2dB)
Flanger	2.6 ms - 12 ms/70 Hz-4.4KHz(-3dB, +2dB)

● Total Harmonic Distortion

Dry	Less than 0.3 % (400Hz, 0 dBm)
Delay	Less than 3 % (400Hz, 0 dBm)

● Hum & Noise

Dry	-100 dBm (Equivalent Input Noise IHF-A)
Delay	-85 dBm (Equivalent Input Noise IHF-A)

● Power Requirements

117V AC	60 Hz 6.6W
220V-240V AC	50 Hz 8.0W

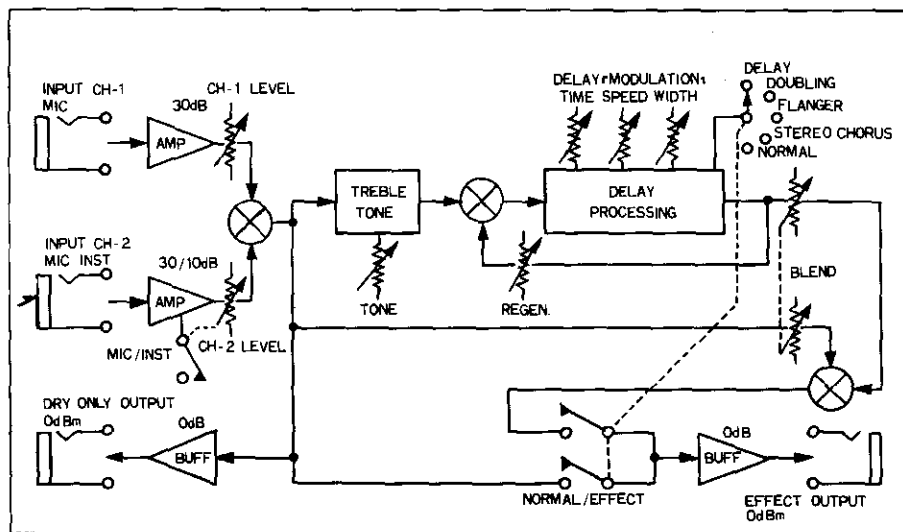
● Dimensions

W x H x D	482 mm (19") x 98 mm (3.9") x 232 mm (9.1")
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● Weight

3.6 Kg (8.0 lb)

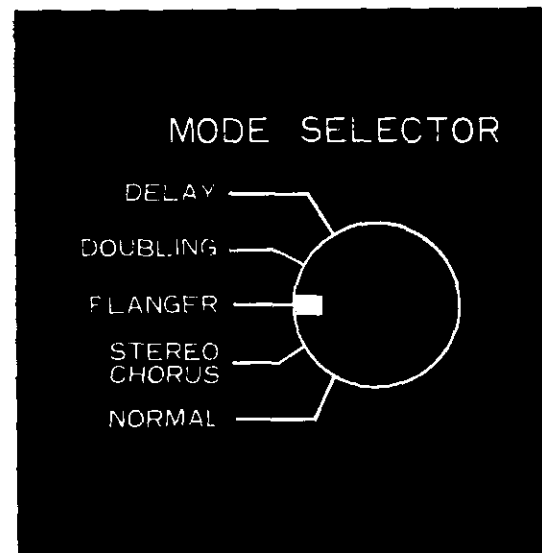
BLOCK DIAGRAMS



OWNER'S MANUAL

MULTI MODE ANALOG DELAY AD202

LAST COPY - DUPLICATION
ONLY



Ibanez