

Back Panel Continued

AC Input: Connect the female end of the AC line cord here. Connect the male plug to a suitable source of line voltage. Refer to the voltage information on the back of the amplifier for its voltage and current requirements. This connector also acts as the main fuse holder and includes a compartment for a spare fuse.

Protection

Short circuit and thermal overload protection.

Spec.'s for the DS series:

- **Input**
Impedance: 1 Meg
Sensitivity: 150MV to 6V
- **EQ:** (Active)
Bass: +/- 12db @ 150HZ
Treble: +/- 12db @ 5kHZ
- **Shape**
+5db @ 3kHZ
-5db @ 1500HZ
+5db @ 100HZ
- **Notch** (Feedback Elimination)
Range: 100 to 350HZ
Attenuation: -18db
- **Line Out**
IMP: 10K
Sig. Level: 300MV Nominal
- **Output**
Power: 50W RMS
Total Harmonic Distortion: .1%
Signal to Noise Ratio: 98db

DS series dimensions:

<u>AG-50DS</u>	<u>AG-100DS</u>
Weight: 23.7 pounds	37 ½ pounds
Height: 13"	21 ½"
Length: 18"	18"
Depth: 10 ½"	10 ½"

Serial number: _____
Model number: _____
Date of purchase: _____
Purchased from: _____
Please fill out and keep for your records.



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It's so quiet, we had to light the power switch!!



DS series Owners Guide

Digital Effects Program List

- A. **Room 3:** Warm room reverb.
- B. **Plate 1:** Classic plate reverb.
- C. **Vocal Cancel:** Removes lead vocals from many stereo recordings.
- D. **Rotary Speaker:** Rotary speaker emulation.
- E. **Chorus/Room 1:** Chorus with reverb.
- F. **Chorus/Room 2:** Auto-wah guitar effect with reverb.
- G. **Delay 1:** 125ms slapback delay.
- H. **Delay 2:** 190ms delay for percussive arpeggios
- I. **Hall 1:** Bright hall reverb.
- J. **Hall 2:** Warm hall reverb.
- K. **Room 1:** Hardwood studio reverb.
- L. **Room 2:** Ambience for acoustic mixes and synth sounds.
- M. **Chorus:** Stereo chorus.
- N. **Flange:** Stereo flanger for jet wash effects.
- O. **Plate 2:** Sizzling bright plate reverb.
- P. **Plate 3:** Short vintage plate reverb.

Front Panel

Direct out: Balanced output signal used to feed recording or sound reinforcement equipment.

Pre: When this toggle switch is in the PRE Position, the balanced output signal sent to the DIRECT OUT jack is PRE effect and eq. (Does not include tone control or effect signals)

Front Panel Continued

Post: When this toggle switch is in the POST Position, the balanced output signal sent to the DIRECT OUT jack is POST effect and eq. (Includes tone control and effect signals)

Input: Instrument input. Designed for both active and passive pickups.

Send: This jack provides an unbalanced output from the preamp, it does not include effects or tone control signal.

Return: This jack provides a signal pre-eq. It automatically disconnects the preamp when used.

Level: Controls the amount of digital effect mixed in to the guitar signal from 0% to 50%.

Mode: This is a rotary encoder, which selects 1 of 16 different digital effects. See Digital Effects Program List.

Volume: Adjusts the overall loudness of the amplifier.

Bass: Adjusts the amount of cut or boost in the low frequency range.

Treble: Adjusts the amount of cut or boost in the high frequency range.

HZ: Sets the frequency of the 18db cut NOTCH FILTER that is used to control resonant feedback.

Notch Filter: ON/OFF adjusts the amount of cut or boost in the low frequency range.

Front Panel Continued

Shape: ON/OFF This toggle switch enables or disables the SHAPE control. The shape control is a mid dip control. In the on position the mid frequencies will be cut and the high and low frequencies will be boosted.

Power: This rocker switch turns the AC power ON and Off. When ON the switch is illuminated to indicate the unit is ready for play.

Back Panel

Mono Line out: This jack provides an unbalanced out put from the preamp that is post eq and post efx. This send can be used to feed a signal to a recording or sound reinforcement mixer. Additionally this output can be used to drive a slave amp such as the ULTRASOUND AG-50E.

Stereo Line Out: This jack provides an unbalanced stereo output that is post eq and post efx. This send can be used to feed a stereo signal to a recording or sound reinforcement mixer. Additionally, with the use of a "Y" cable, this stereo output

can be used to drive 2 slave amps, such as the UltraSound AG-50E in stereo mode.

Headphones: This jack provides a stereo signal to drive headphones. When playing with one of the stereo effects such as Chorus or Flange, the stereo separation is very evident. The use of this jack will disengage the amplifiers internal speakers.