

PRECISION STEREO PREAMPLIFIER

C-2810

● Revolutionary AAVA volume control ● Fully modular construction with individual left/right amplifier units ● Separate R-toroidal power transformers for left and right channels ● Selectable preamp gain ● Printed circuit boards made from Teflon material ● Logic-controlled relays for shortest signal paths ● Optional support for analog record playback ● Massive cabinet made of persimmons wood



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Meet the new flagship model – Preamplifier with further improved revolutionary AAVA volume control. Complete dual mono construction with two R-toroidal power transformers. Modular amplifiers using printed circuit boards made from Teflon. Independent phase selection for each input position. Phono Equalizer Unit allowing high-quality playback of analog records.

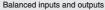
The C-2810 inherits the superb design technology of the C-2800 but takes another significant step forward. The new model employs only top-quality parts selected after extended listening tests and features a further improved AAVA (Accuphase Analog Varigain Amplifier) volume control. How a preamplifier handles listening level adjustment has a decisive influence on its performance and sound. AAVA is an innovative concept that differs radically from conventional variable-resistor type volume controls. In AAVA, amplification and volume control are fully unified, eliminating all mechanical contact points. Pure analog processing ensures optimum performance and superb sound. Another benefit of AAVA is that its performance and sound quality will remain undiminished for many years to come.

The power supply section of the C-2810 employs two separate R-toroidal transformers, one for each channel. Filtering capacitors and all other parts of the power supply are also duplicated for left and right. What's more, all unit amplifiers such as for input buffer, AAVA, and balanced output are also entirely separate for the two channels, arranged on a highquality motherboard. This fully monaural construction prevents unwanted crosstalk and interaction both on the electrical and the physical plane. The result is utterly stable playback sound of impeccable quality. Logic relay control is used for source switching to implement the shortest possible signal paths. Each input position allows individual phase selection. The printed circuit boards are an important element of a preamplifier both regarding electrical performance as well as sound quality. In the C-2810, these are made from a Teflon material with low dielectric constant and minimum loss. Every aspect of this top-notch analog preamplifier has been honed for optimum sonic performance. The overall result is a flagship product that represents the best that Accuphase has to offer.

■ Logic-controlled relays assure high sound quality and long-term reliability

The strategically placed relays of the C-2810 prevent any signal degradation that could occur if the signal has to travel a long way for input and output connection and function switching. Optimum signal flow is maintained at all times.





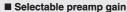


■ Ideal power supply uses "R-toroidal transformers" in fully monaural configuration

Each transformer is housed in a dual-wall enclosure with a glass fiber core and strong resin coating. In addition, epoxy filler with superior vibration-damping and insulation characteristics is used, resulting in highly effective triple insulation.

■ Printed circuit boards in signal transmission circuitry made from Teflon (glass fluorocarbon resin substrate) with low dielectric constant and low loss

Teflon is a registered trademark of DuPont USA



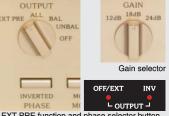
The overall gain of the preamplifier can be set to 12 dB, 18 dB, or 24 dB. (Standard position is 18 dB.)

- EXT PRE function allows use of external preamplifier
- Independent phase selection for each input position

The selected phase setting is memorized for each input position separately. The on/off status of a LED indicator shows the respective

- Versatile input and output connectors (inputs shown as character display)
- Dedicated headphone amplifier optimized for sound quality
- Versatile features:
- Provisions for recording/playback/copying with two recorders
- Loudness compensator augments bass and treble at low listening volume
- Attenuator
- Subsonic filter removes ultra low frequency noise
- Massive cabinet made of persimmons wood

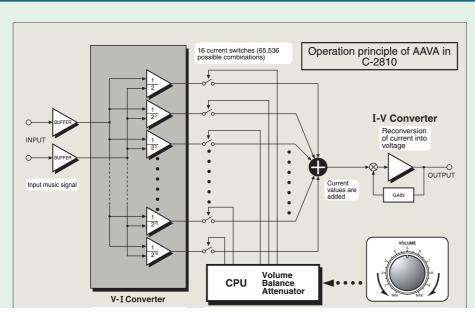
R-toroidal transformer



with LED indicators

Loudness compensator character istics

AAVA (Accuphase Analog Vari-gain Amplifier) volume control



AAVA is a radically different volume control principle that does not use variable resistors and provides top-notch performance and sound quality. Because the music signal does not pass through variable resistors, it is not affected by changes in impedance. This means that high signal-to-noise ratio and low distortion of the signal are maintained at any volume control setting.

■ AAVA resolution

AAVA adjusts the listening volume by means of 16 weighted V-I converter amplifiers which are controlled by current switches The number of possible volume steps set by the combination of these converter amplifiers is 2 to the power of 16 = 65,536.

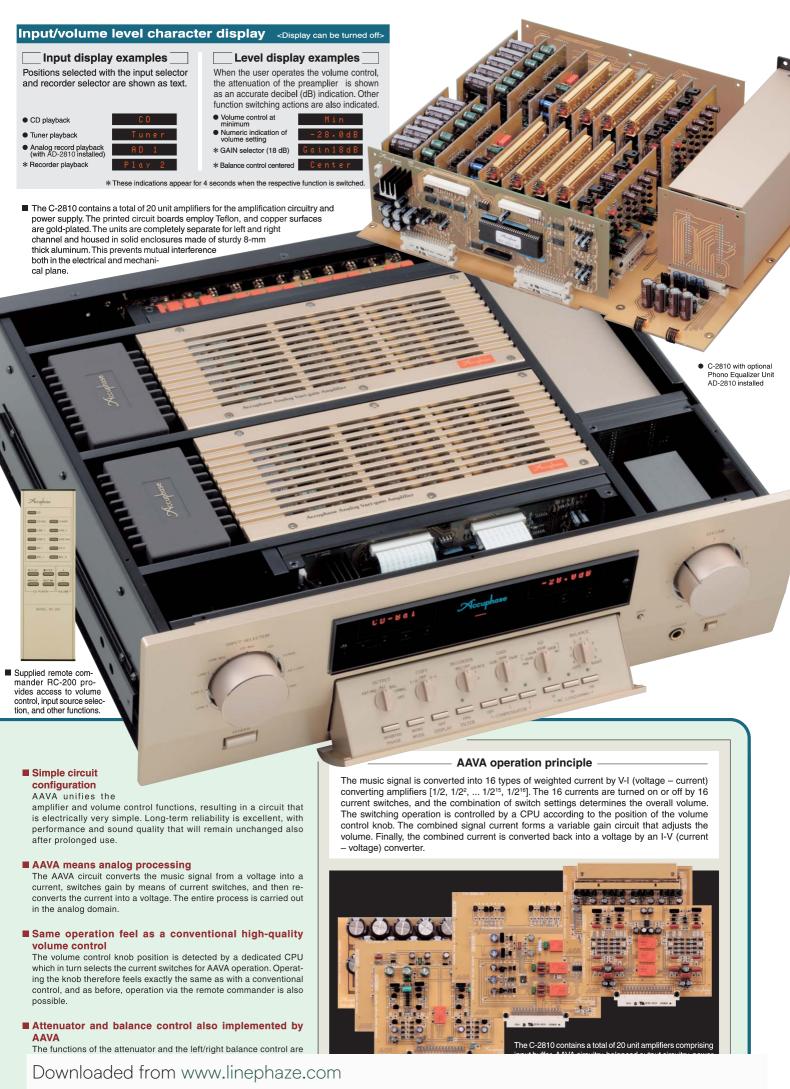
AAVA ensures high S/N ratio and uniform frequency response

With conventional volume controls, the impedance increases significantly at settings that correspond to normal listening levels, thereby leading to increased noise. With AAVA, there is no change in impedance and consequently no deterioration of S/N ratio. Frequency response also remains totally uniform. Changing the volume with AAVA does not mean introducing noise or detracting from the high performance of the amplifier

■ No more left/right tracking differences or crosstalk

Because AAVA is an electronic circuit employing fixed-value

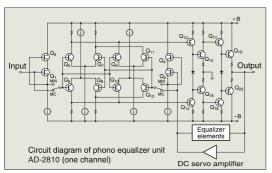
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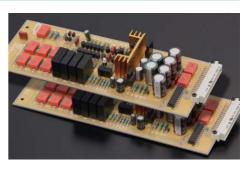
Dedicated Phono Equalizer Unit AD-2810

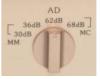
Analog records can be reproduced by installing the dedicated phono equalizer unit AD-2810 in a rear-panel slot. The AD-2810 uses printed circuit boards made from Teflon material (glass fluorocarbon resin substrate) and is housed in a sturdy aluminum case for complete protection against any external interference. The shortest possible connection between input and amplification circuits ensures outstanding S/N ratio, and highly reliable DIN connectors are used for the link to the main unit

- * The AD-2810 can also be used in the Accuphase models C-2800, C-2410, C-2400, C-290 and C-290V
- * The AD-290/AD-290V and AD-2800 are also compatible and can be used in place of the AD-2810









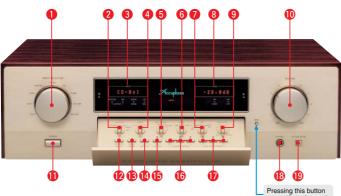
MM/MC switching and other function settings on front panel of C-2810 allow use of any type of phono cartridge.



AD gain selector

MC LOAD selector buttons





■ Rear Panel



- Input selector
 - LINE 3 LINE 2 LINE 1 LINE-BAL CD-BAL CD TUNER AD-1 (OP) AD-2 (OP)
- Output selector
 - EXT PRE ALL BAL UNBAL OFF
- Input display
- Oppy selector 1→2 OFF 2→1
- Recorder selector
- REC OFF SOURCE 1 2 Gain selector 12dB 18dB 24dB
- AD gain selector
- 8 Level display
- Balance control Wolume control
- Power switch
- Phase selector button
- Stereo/mono selector button
- Display on/off button

- Subsonic filter
- (6) Loudness compensator selector
- MC impedance selector button
- (B) Headphone jack
- Attenuator button
- 2 Line input connectors TUNER CD LINE1, 2, 3
- Recorder playback/recording connectors Unbalanced output connectors (2 sets).
- External preamplifier input connectors (unbalanced)
- CD/LINE balanced input connectors
- ① Ground ② Inverted (-) (3) Non-inverted (+)
- Balanced output connectors (2 sets) 6 External preamplifier input connectors (balanced)
- AC power supply connector*

C-2810 Guaranteed Specifications

- st Guaranteed specifications are measured according to EIA standard RS-490. AD stands for 'Analog Disc'
- * Specifications are shown for phono equalizer unit AD-2810 installed.

● Frequency Response BALANCED/ UNBALANCED INPUT 3 - 200,000 Hz 20 - 20,000 Hz 20 - 20,000 Hz +0, -0.2 dB AD INPUT [MM/36 dB, MC] ±0.2 dB AD INPUT [MM/30 dB] 20 - 20,000 Hz ±0.3 dB

- Total Harmonic Distortion 0.005% (for all inputs)
- Input Sensitivity, Input Impedance

Innest	Sensitivity		Input impedance		
Input	For rated output	For 0.5 V output	Input Impedance		
AD:MM/30dB	8.0 mV	2.0 mV	47 kΩ		
AD:MM/36dB	4.0 mV	1.0 mV	47 kΩ		
AD:MC/62dB	0.2 mV	0.05 mV	10/30/100 Ω, switchable		
AD:MC/68dB	0.1 mV	0.025 mV	10/30/100 Ω, switchable		
BALANCED/UNBALANCED	252 mV	63 mV	40 kΩ/20 kΩ		

 Rated Output Voltage, **Output Impedance**

BALANCED/UNBALANCED OUTPUT: REC (with AD input):

2 V, 50 Ω 252 mV. 200 Ω

0 dB

S/N Ratio (gain selector: 18 dB)

		,	
	Input	Input shorted, IHF-A weighting	S/N ratio (EIA)
		S/N ratio at rated output	S/N TALIO (EIA)
	AD:MM/30dB	95 dB	91 dB
	AD:MM/36dB	89 dB	92 dB
	AD:MC/62dB	80 dB	87.5 dB
	AD:MC/68dB	75 dB	88.5 dB
	BALANCED/ UNBALANCED	111 dB	110 dB

BALANCED/UNBALANCED OUTPUT: Maximum Output Level 7.0 V REC (with AD input): 6.0 V ■ LINE maximum input level BALANCED/UNBALANCED INPUT: 6 0 V

● Maximum AD Input Level MM [30/36 dB] INPUT: 300 mV/150 mV (0.005% THD) MC [62/68 dB] INPUT: 7.5 mV/ 3.75 mV

BALANCED/UNBALANCED OUTPUT: 600 Ω Minimum Load Impedance

● Gain (gain selector: 18 dB) BALANCED/UNBALANCED INPUT → BALANCED/UNBALANCED OUTPUT: UNBALANCED INPUT → REC OUTPUT: Gain can be set to 12/18/24 dB

48/54 dB AD [MM: 30/36 dB] INPUT → BALANCED/UNBALANCED OUTPUT: AD [MC: 30/36 dB] INPUT → REC OUTPUT: 30/36 dB AD [MC: 62/68 dB] INPUT → BALANCED/UNBALANCED OUTPUT: AD [MC: 62/68 dB] INPUT → REC OUTPUT: 62/68 dB

1: +3 dB (100 Hz) 2: +8 dB (100 Hz) +6 dB (20 kHz) Loudness Compensation

Subsonic Filter 10 Hz: -18 dB/octave

Attenuator -20 dB

 Headphone Jack Suitable impedance: 8 - 100 Ω

AC 120 V / 230 V, 50/60 Hz (Voltage as indicated on rear panel) Power Requirements

Power Consumption 43 watts

 Maximum Dimensions Width: 477 mm (18-3/4")(6-1/8") Height: 156 mm

Depth: 412 mm (16-1/4") (Depth with AD-2810 installed: 414 mm)

Mass 21.6 kg (47.6 lbs) net (22.5 kg with AD-2810 installed)

28.0 kg (61.7 lbs) in shipping carton

Remarks:

- This product is available in versions for 120/230 V AC. Make sure that the voltage shown on the rear panel matches the AC line voltage in your area.
- ★ The shape of the AC inlet and plug of the supplied power cord depends on the voltage rating and destination country.
- Supplied accessories:
 - AC power cord
- Audio cables with RCA-type plugs (1 m)
- Remote Commander BC-200



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