

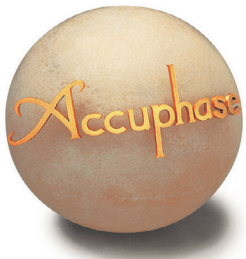
Accuphase

PRECISION STEREO PREAMPLIFIER

C-2850

- AAVA volume control for high performance and outstanding sound
- Separate high-efficiency toroidal power transformers for left and right channels
- Selectable preamp gain
- Fully modular construction with separate left/right units for each amplifier stage
- Logic-controlled relays for shortest signal paths
- Independent phase selection for each input position
- Printed circuit boards made from glass cloth fluorocarbon resin
- Optional playback capability for analog records
- Massive wood cabinet with natural grain finish

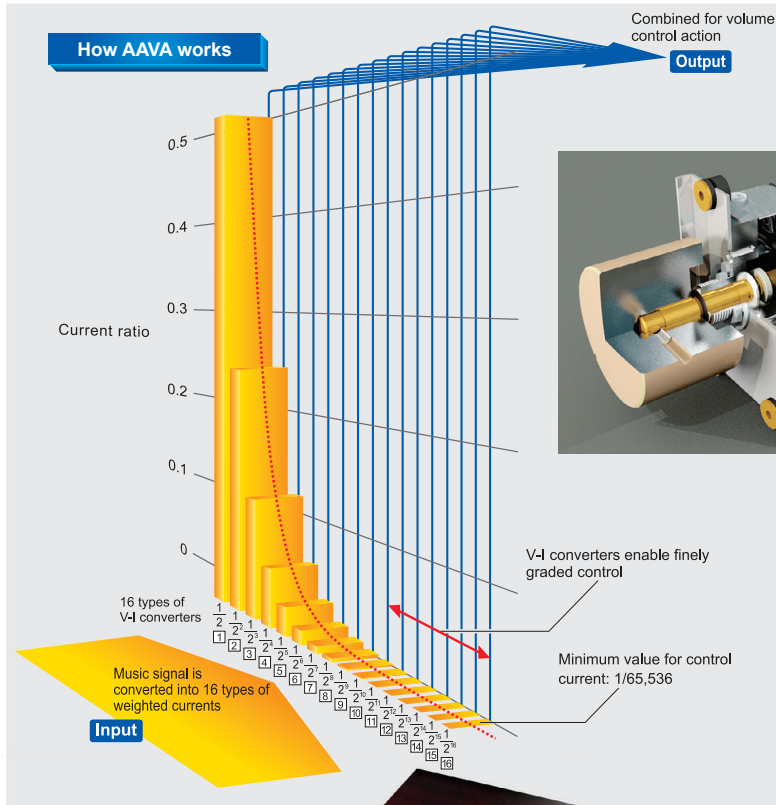




C-2800 series renewal creates the ultimate preamplifier — C-2850. A new preamp generation defined by the harmony of craftsmanship and technology.

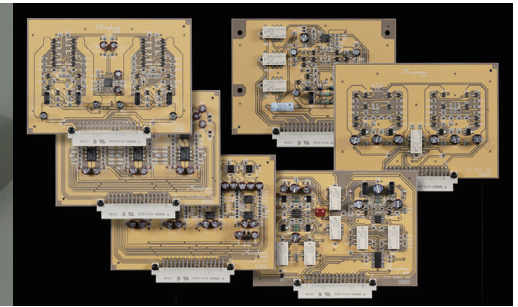
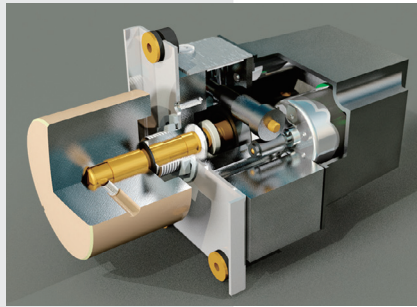
The revolutionary AAVA (Accuphase Analog Vari-gain Amplifier) principle which enables optimal volume adjustment has been further refined, for ultra-low noise and utterly quiet operation, combined with perfect operation feel. Experience the ultimate in volume control performance and comfort from a component that is in a class of its own. Sophisticated technology and optimized construction using only carefully selected top-notch parts and materials provide effortless operation stability, with ample performance leeway that is the secret behind ultimate reliability. Each single C-2850 is lovingly built by highly experienced craftsmen skilled in the art. The result is a product destined to transport the listener into the enchanting realm of high-end audio.

Innovation - at the leading edge of technology



AAVA operation principle is purely analog

The AAVA circuit converts the input music signal into 16 types of weighted currents. According to the position of the volume control knob, the currents are then combined to determine the volume. The combined signal current forms a variable gain circuit that adjusts the level of the music signal.



Printed circuit boards made from glass fluorocarbon resin with low dielectric constant and low loss, and gold-plated PCB copper foil side

High-rigidity, high-accuracy volume sensor mechanism with ultra smooth tactile feel

Turning the volume knob on the front panel causes the actual volume level position to be detected. The corresponding combination of weighted amplifiers then in turn adjusts the volume. The volume sensor mechanism is made of a massive aluminum block extruded and finished with utmost precision. The knob provides an exquisite tactile feel when rotated and ensures extremely accurate position detection. The entire mechanism is supported by a floating suspension using insulators, which also allows extremely quiet motor-driven operation when the remote commander is used.



Remote commander RC-220
Allows volume adjustment, input source switching, and other operations.

Sound quality - simply aiming for the best

Full mono construction

Inside the preamplifier, circuits and components are securely mounted to a sturdy 8 mm thick aluminum frame and kept completely separate for the left and right channels. This reliably prevents unwanted mutual interference, resulting in further improved electrical characteristics and perfectly pure sonic performance.

Ideal left/right power supply configuration

The power supply circuitry not only acts as the energy source of an amplifier, it also has a dramatic influence on its sound. The C-2850 features a newly developed type of high-efficiency toroidal transformer in a cast-aluminum case with thermal dissipation fins. Each channel has its own transformer, along with a pair of custom-made electrolytic filtering capacitors rated for high capacity and excellent sonic properties. This arrangement provides ample power reserves for effortless operation.



Functionality - convenience that makes sense

Total of 10 inputs and 5 outputs with text display support

Thanks to a versatile complement of input and outputs, the C-2850 is ready for any program source combination.

On/off switching capability for input and level display

Phase selector for balanced connection

The PHASE button makes it easy to match the phase configuration of any input or output component connected via a balanced link.

Individual phase setting for each input

The phase can be set and memorized separately for each input and recorder selector position.

Subsonic filter removes ultra low frequency noise

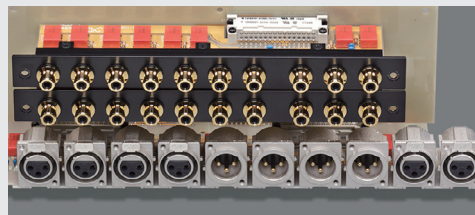
Three-stage loudness compensator offsets the characteristics of human hearing

3-stage gain selector

Overall gain can be set to 12 dB, 18 dB, or 24 dB.

Built-in dedicated headphone amplifier optimized for sound quality

EXT PRE function allows use of external preamplifier
Setting the OUTPUT selector to the EXT PRE position allows the use of an external preamplifier or other component without having to change system connections.



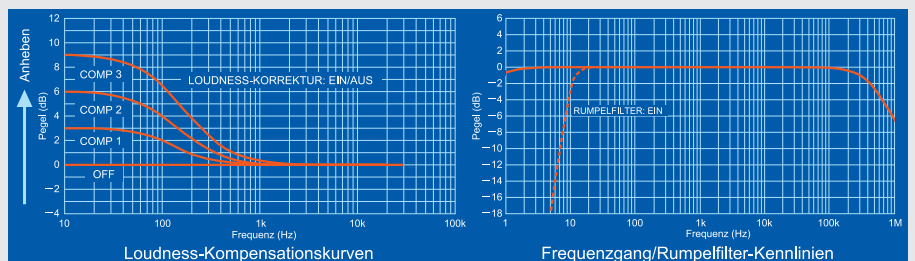
Line level and balanced input and output connectors

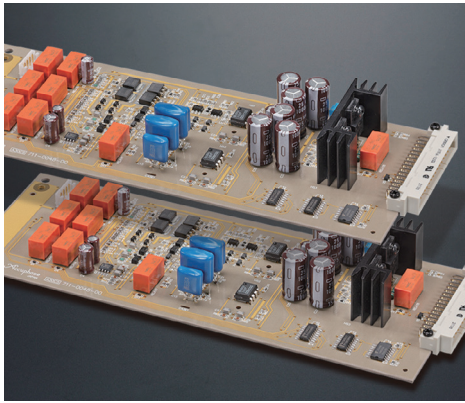
Input indication examples

TUNER	→	TUNER
CD	→	CD
BAL	→	BAL
AD 1 (without AD-2850)	→	EMPTY 1
AD 1 (with AD-2850)	→	AD 1
AD 2 (with AD-2850)	→	AD 2



Sub panel 1 Output selector 2 Gain selector 3 Loudness compensation selector 4 Headphone level selector 5 Recorder selector 6 Phase selector button 7 Display on/off button 8 Subsonic filter

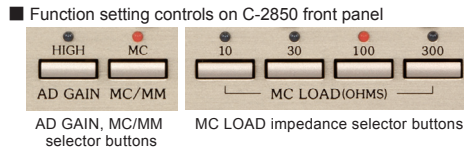




Phono equalizer employs dual mono construction to keep left and right channels separate

Analog records can be reproduced by installing the dedicated phono equalizer unit AD-2850 in a rear-panel slot. The AD-2850 features separate input circuitry for MC and MM cartridges to ensure optimum matching and realize outstanding S/N ratio. The built-in differential RIAA equalizer circuit is designed to provide super accurate RIAA equalization characteristics. The printed circuit boards are made from glass cloth fluorocarbon resin and housed in a sturdy aluminum enclosure to minimize any kind of external influence.

- MC [Gain: 60/70 dB, switchable
Input impedance: 10/30/100/300 ohms (selectable)
- MM [Gain: 30/40 dB, switchable
Input impedance: 47 kilohms



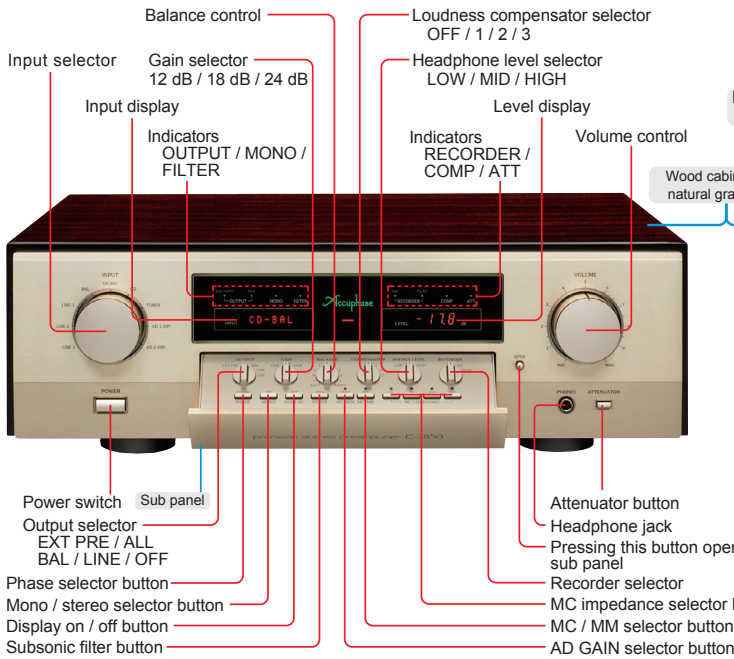
AD GAIN, MC/MM selector buttons

MC LOAD impedance selector buttons



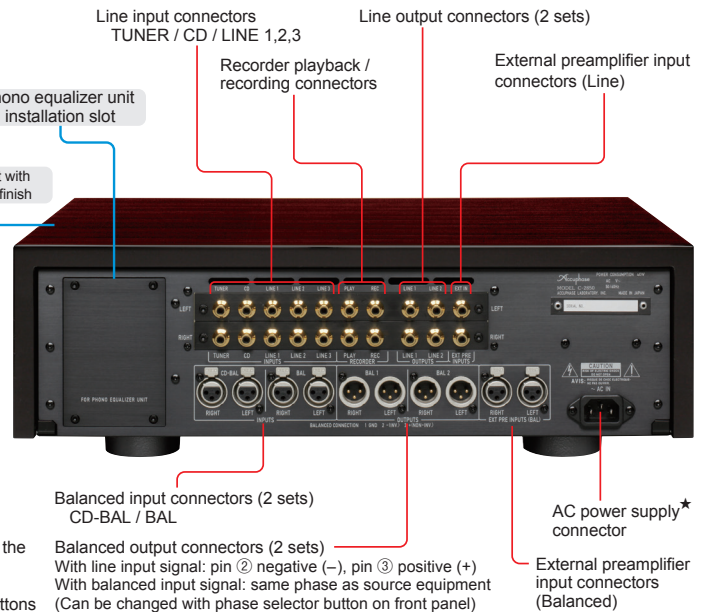
AD-2850 installed
*For information regarding use in other preamplifier models (C-2820, C-2420 etc.), or regarding compatibility with previous phono equalizer units (AD-2820 etc.), please contact your Accuphase dealer.

Front panel



- Balance control
- Loudness compensator selector OFF / 1 / 2 / 3
- Headphone level selector LOW / MID / HIGH
- Level display
- Volume control
- Input selector
- Gain selector 12 dB / 18 dB / 24 dB
- Indicators OUTPUT / MONO / FILTER
- Indicators RECORDER / COMP / ATT
- Input display
- Indicators RECORDER / COMP / ATT
- Power switch
- Sub panel
- Attenuator button
- Headphone jack
- Pressing this button opens the sub panel
- Recorder selector
- MC impedance selector buttons
- MC / MM selector button
- AD GAIN selector button
- Phase selector button
- Mono / stereo selector button
- Display on / off button
- Subsonic filter button

Rear panel



- Line input connectors TUNER / CD / LINE 1,2,3
- Line output connectors (2 sets)
- Recorder playback / recording connectors
- External preamplifier input connectors (Line)
- Phono equalizer unit installation slot
- Wood cabinet with natural grain finish
- Balanced input connectors (2 sets) CD-BAL / BAL
- Balanced output connectors (2 sets) With line input signal: pin ② negative (-), pin ③ positive (+) With balanced input signal: same phase as source equipment (Can be changed with phase selector button on front panel)
- AC power supply* connector
- External preamplifier input connectors (Balanced)

C-2850 Guaranteed Specifications

* Guaranteed specifications are measured according to EIA standard RS-490. AD: Analog Disc * Specifications with AD-2850 installed. * Gain selector set to 18 dB position.

Frequency Response	BALANCED/LINE INPUT:	3 - 200,000 Hz +0 -3.0 dB
		20 - 20,000 Hz +0 -0.2 dB
	AD INPUT [MM/40 dB, MC]:	20 - 20,000 Hz ±0.2 dB
	AD INPUT [MM/30 dB]:	20 - 20,000 Hz ±0.3 dB

Maximum Line Input Voltage	BALANCED/LINE INPUT:	6.0 V
----------------------------	----------------------	-------

Maximum AD Input Voltage (1 kHz, 0.005% THD)	MM [30/40 dB] INPUT:	310/96.5 mV
	MC [60/70 dB] INPUT:	9.5/3.2 mV

Minimum Load Impedance	BALANCED/LINE OUTPUT:	600 ohms
	RECORDER REC:	10 kilohms

Total Harmonic Distortion (for all inputs) 0.005%

Input Sensitivity, Input Impedance	Input	Input sensitivity		Input impedance
		For rated output	For 0.5 V output	
	AD: MM/30 dB INPUT	8.0 mV	2.0 mV	47 kilohms
	AD: MM/40 dB INPUT	2.5 mV	0.63 mV	47 kilohms
	AD: MC/60 dB INPUT	0.25 mV	0.063 mV	10/30/100/300 ohms, switchable
	AD: MC/70 dB INPUT	0.08 mV	0.02 mV	10/30/100/300 ohms, switchable
	BALANCED/LINE	252 mV	63 mV	40 kilohms/20 kilohms

Gain (18 dB position) Gain selector switch: 12/18/24 dB switchable	BALANCED/LINE INPUT → BALANCED/LINE OUTPUT:	18 dB
	LINE INPUT → LINE OUTPUT:	18 dB
	AD [MM: 30/40 dB] INPUT → BALANCED/LINE OUTPUT:	48/58 dB
	AD [MM: 30/40 dB] INPUT → REC OUTPUT:	30/40 dB
	AD [MC: 60/70 dB] INPUT → BALANCED/LINE OUTPUT:	78/88 dB
	AD [MC: 60/70 dB] INPUT → REC OUTPUT:	60/70 dB

Rated Output Voltage,	BALANCED/LINE OUTPUT	2 V	50 ohms
Output Impedance	RECORDER REC (with AD input)	252 mV	200 ohms

Loudness Compensation 1: +2 dB (100 Hz), 2: +4 dB (100 Hz), 3: +6.5 dB (100 Hz)

S/N Ratio	Input	Input shorted (A weighting)		EIA S/N
		S/N ratio at rated output		
	AD: MM/30 dB INPUT	94 dB		86 dB
	AD: MM/40 dB INPUT	85 dB		86 dB
	AD: MC/60 dB INPUT	80 dB		86 dB
	AD: MC/70 dB INPUT	73 dB		87 dB
	BALANCED/LINE	111 dB		110 dB

Headphone Jack Output level: 2 V (40 ohms), Suitable impedance: 8 ohms or above Gain (LOW, MID, HIGH): ±10 dB from standard MID level

Subsonic Filter 10 Hz: -18 dB/octave

Attenuator -20 dB

Power Requirements AC120 V/220 V/230 V 50/60 Hz (Voltage as indicated on rear panel)

Power Consumption 40 watts

Maximum Dimensions Width 477 mm (18-3/4") Height 156 mm (6-1/8") Depth 412 mm (16-1/4") (Depth 414 mm with AD-2850 installed)

Mass 24.5 kg (54.0 lbs) net (25.4 kg (56.0 lbs) with AD-2850 installed) 31.0 kg (68.3 lbs) in shipping carton

Remarks

- ★ This product is available in versions for 120/220/230 V AC. Make sure that the voltage shown on the rear panel matches the AC line voltage in your area.
- ★ The 230 V version has an Eco Mode that switches power off after 120 minutes of inactivity.
- ★ The shape of the AC inlet and plug of the supplied power cord depends on the voltage rating and destination country.

Supplied accessory

- AC power cord
- Audio cable with plugs ASL-10
- Remote commander RC-220
- Cleaning cloth

