

STEREO PHONO AMPLIFIER C-57



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Accuphase launched the C-27 phono amplifier in 2008, and since then has proven that the technological development of analog amplifiers has constantly evolved in an age when digital sound sources are the norm.

In 2014 the C-37 and in 2020 the C-47 were launched and became popular as phono equalizer amplifiers with rich musicality.

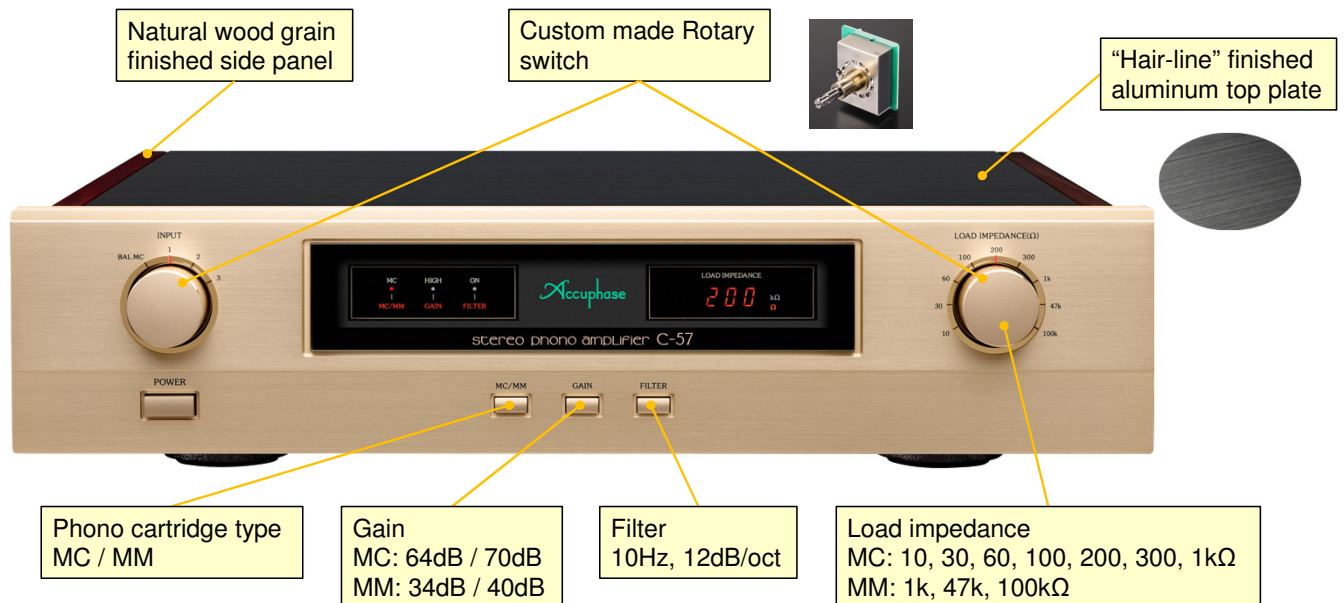
The C-57 integrates the latest preamplifier and power amplifier technologies to achieve fully balanced signal transfer from input to output.

When combined with Accuphase current power amplifiers, a fully balanced transmission system can be made.

The MC head amp is also equipped with ANCC to improve distortion and noise performance.

The C-57 is an evolutionary step forward that incorporates the most advanced low-noise technology available, and it expresses the full flavor and charm of the stylus, allowing you to experience the depth of analog disc playback.

Front view



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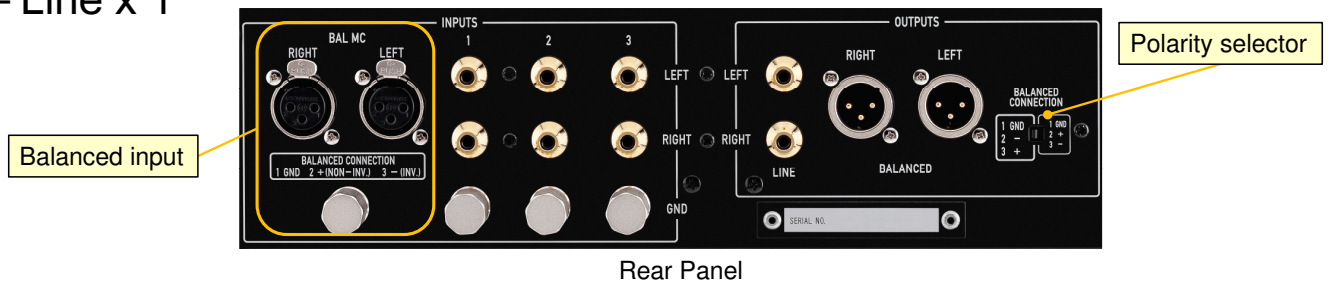
C-57 applied the aluminum "hair-line" finished top plate. It brings an elegant atmosphere with natural wood grain finished side panels.

Newly developed rotary switches are used for the input selector and the load impedance selector. The switches are a clever combination of carefully selected components that provide a sophisticated operating feel.

In MC connection, the 60Ω setting is newly added. Load impedance can be selected from 7 types for MC and 3 types for MM, and the selected impedance is shown on the display.

Inputs and outputs

- Input
 - Balanced x 1 **for MC type cartridge
 - Line x 3
- Output
 - Balanced x 1 with polarity selection
 - Line x 1



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C-57 has a MC-type cartridge-dedicated balanced input, and 3 line input connectors.

It can memorize the individual settings of each input.



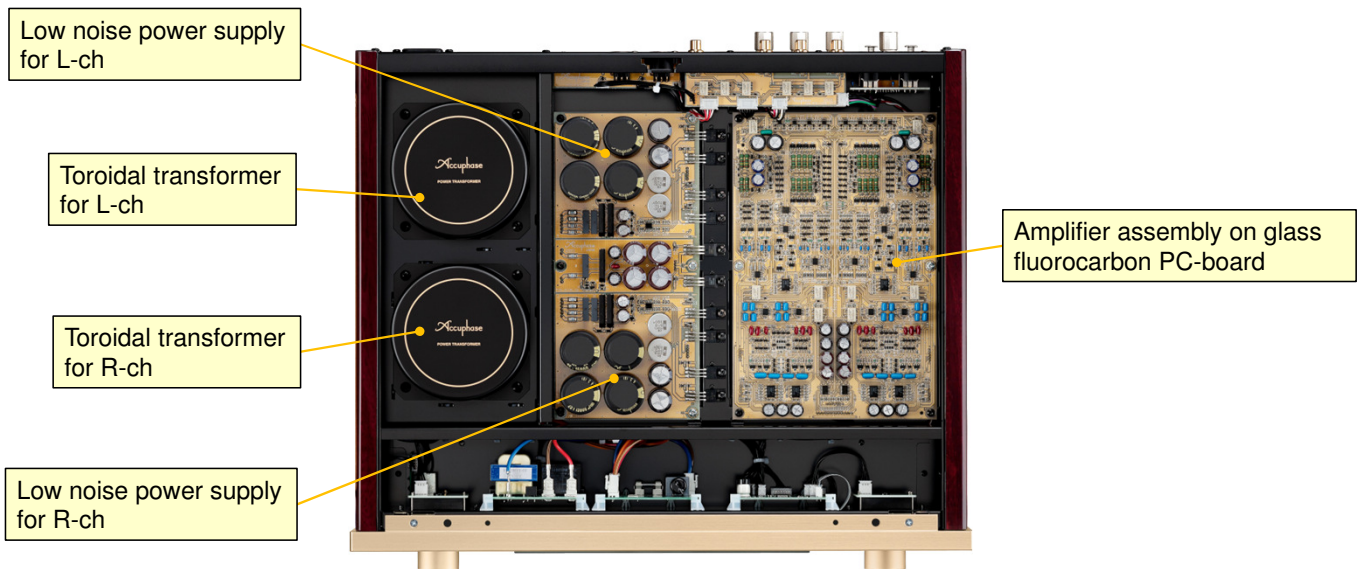
① : GND

② : +

③ : -

**Balance input polarity

Internal view



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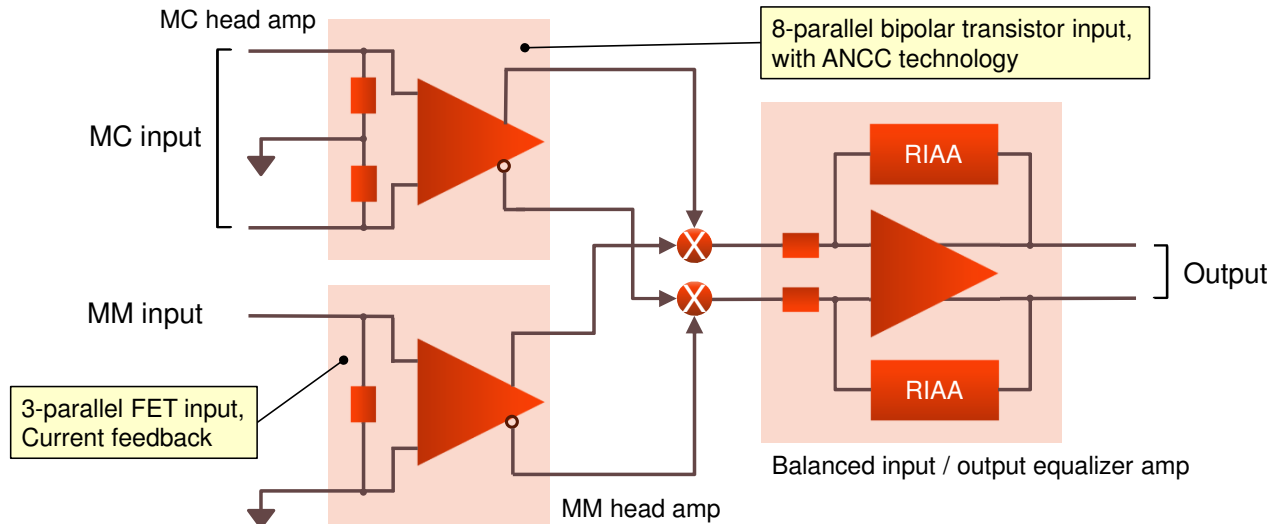
The C-57 completely separates the power supply and amplification circuits to eliminate the effects of external noise introduced from the outside and noise generated inside the equipment. Each circuit is independent and arranged to minimize signal paths.

C-57 is equipped with Low flux leakage & high-capacity toroidal transformers and ultra low noise power supply circuits consisting of 8 filtering capacitors of 15000 μ F capacity.

A powerful, low-noise, stabilized power supply circuit is also installed to prevent noise from the amplification and the power supply circuit.

Fully balanced configuration

- Low noise head amp and equalizer amp topology



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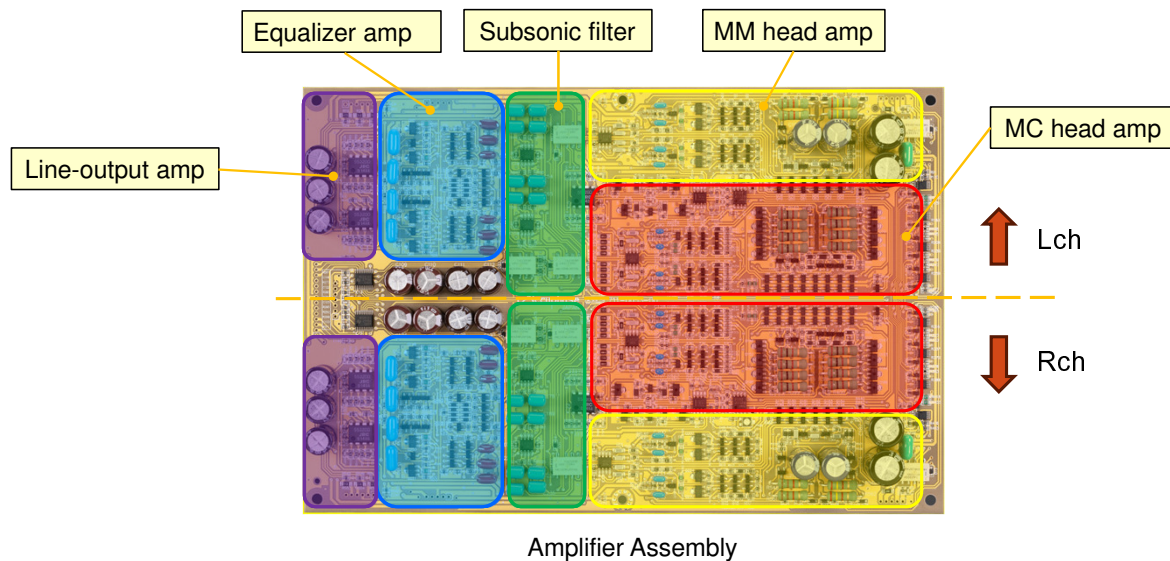
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C-57 applies the latest technologies which are used in C-3900 or E-800S for ultra-low noise characteristics and realizes fully balanced constructions. Also, the low noise headamp and equalizer topology contribute to achieving the fully balanced input at both MC/MM connections.

The head amps are optimized depending on the type of stylus, this also helps to show the ultra-low noise performance.

- MC head amplifier
 - 8-parallel low-noise bipolar transistor input
 - Current feedback with ANCC
- MM head amplifier
 - 3-parallel low noise junction FET input
 - Current feedback

Amp assembly on glass fluorocarbon PC-Board



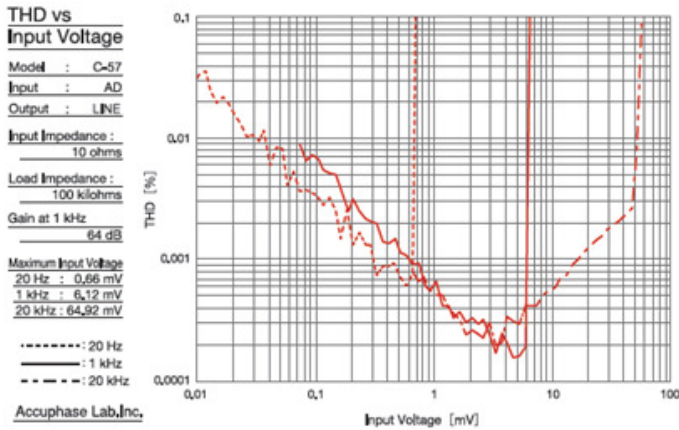
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The signal paths among the circuits are shortened as much as possible and all amplifiers located on the same PC-Board brings out the best electrical performance and sound quality.

The PC-Boards are glass fluorocarbon substrate which is excellent in the high-frequency characteristics and the heat resistance.

Ultra high performance



- Guaranteed input Referred Noise
 - 156dBV @MC,
 - 136dBV @MM
- Guaranteed THD performance
 - 0.005% @1kHz

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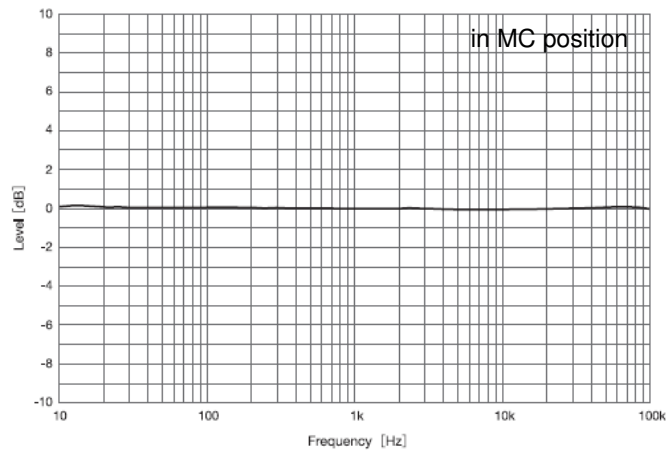
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C-57 shows astonishingly low noise and THD(Total Harmonic Distortion) characteristics.

The guaranteed input referred noise is 1dB lower than C-47. This performance can be said to be a World-Champion-Class quality.

Ultra high precision

- RIAA deviation: $\pm 0.3\text{dB}$ guarantee @10Hz ~ 20kHz



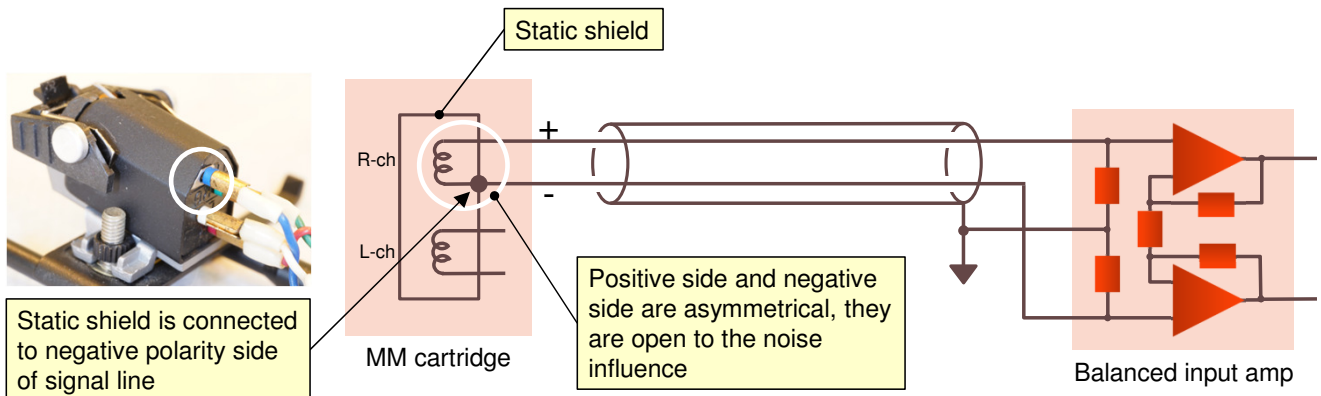
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C-57 guarantees RIAA deviation of only $\pm 0.3\text{dB}$ with selected high-precision capacitors and resistors.

Appendix

- The reason why MM cartridge cannot do the balanced connection
-MM's Balanced connection is open to the noise influence rather than line connection



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The most of MM type cartridges have static shield at power generator, and the static shield is connected to the negative polarity side of either channel.

If MM type cartridges are set to the balanced connections, The noise amount at positive polarity side and negative polarity side inside the cartridge is varied.

The noise cancelling effect at balanced input amp cannot be occurred, therefore MM's Balanced connection is opened to the noise influence rather than line connection.