

High-Speed, Single-Stage Separates



Duo-β-Circuit/s Single-Stage Pre-Amplifier

C-02

Pure Class "A" Operation

It is universally known that the class "A" amplification eliminates the cross-over distortion, resulting in purest sound reproduction having superb treble and bass response. Such an ideal configuration is now employed in this new pre-amplifier, and both of the distortion and colouration associated with conventional amplifiers are totally banished at the cost of expensive structure.



High Quality MC Transformer

The exclusive MC transformer featuring non-oxygen copper wirings provides distortion-free sound full of speedy auditory sensation thanks to low inner resistance.

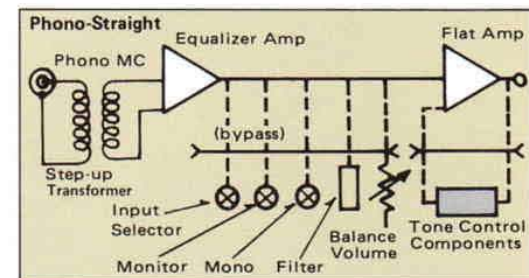
step-up ratio. In the case of the C-02, the first priority is placed on the performance quality, and the ratio between the primary and secondary windings is kept at the minimum acceptable level, 1:10. On the other hand, the insufficient portion of input sensitivity is procured by special device of variable gain at the equalizer. In this way, both of the high quality and high input sensitivity are now made compatible.

All types of MC cartridge available in the marketplace can be directly connected for playback of disc thanks to the convenient cartridge selector.



Exclusive Disc Playback Circuit

The "Phono-Straight" function provided enables to reproduce discs in preference to other programme sources. The simplest circuit is formed, from cartridge to output terminal, bypassing input selector, filter, balancer and unnecessary wirings.



Other Features

Two tape monitor circuits for dubbing, warm-up and operation indicators to show warm-up condition, lavish application of audio capacitors,

It is difficult to design a high quality MC step-up transformer with large

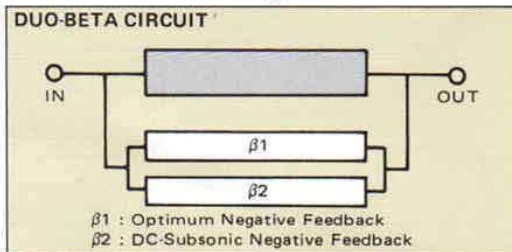


gold-plated terminals to reduce contact resistance, etc.

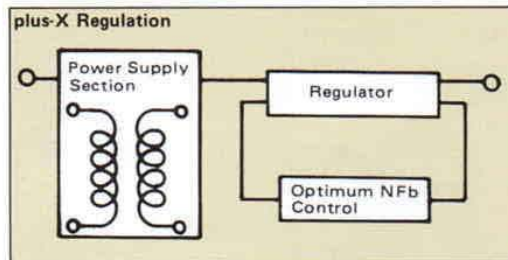
Well-Known Duo-Beta Circuit/S denoted by "Optimum NFb Amount", "Plus-X"

Application of Optimum Amount of NFb

Lux's innovative circuitry "Duo- β " meant skillful utilization of 2 kinds of NFb. First to design such an amp having inherently good characteristics in the "open-loop" condition, and then to apply an optimum amount of NFb to its best advantage in combination with the DC servo circuit. Such a minimum necessary amount of NFb contributes soft sound reproduction in the mid-to-treble range, while the DC servo ensures bass-tight sound.



On top of that, the "plus-X" circuitry was developed to provide an unconditionally stable power supply section.



Ultimate Purification of Circuitry

As amps become close to perfection, such problems are brought to light as how many of various low-level distortions can be removed. For this purpose, conventionally only the wiring method has been simplified, or the capacitors employed have been eliminated. Now Lux gave the final solution to this problem—the "Single-

Stage" Amp Configuration not by reduction of componentry in number but by perfect removal of one whole stage of amp.

Total Removal of 2nd Amp Stage

So far the basic pre-amp circuitry has been standardized in the way "1st stage — 2nd stage — output stage". For example, in the equalizer such high gain as much as 110dB is obtained at the 1st and 2nd stages. In this respect, to reduce gain and distortion they employed huge amount of NFb by means of high open-loop gain, which could not be obtained by a single-stage amplification. In the case of Lux's Duo- β concept to apply the minimum necessary NFb to the amp offering good original characteristics, neither excessive amount of NFb nor high open-loop gain is required. In this sense, to obtain the necessary gain at