

model XF-1

**MOVING-COIL CARTRIDGE
STEP-UP TRANSFORMER**

OPERATING INSTRUCTIONS

- Please read this instruction manual carefully before using your new XF-1 transformer.



model **XF-2** LC-OFC STEP-UP TRANSFORMER FOR MOVING-COIL CARTRIDGE

- Operating method of your new XF-2 is identical with XF-1.
So please refer to XF-1 instructions.

SPECIFICATIONS

Type	LC-OFC step-up transformer for MC cartridge
Input impedance	Type L $0\sim 5\Omega$, Type H $10\sim 40\Omega$
Load impedance	$47k\Omega \sim 50k\Omega$
Max. Gain	Type L 35dB, Type H 25dB
Frequency response	5Hz~60,000Hz(input level 0.3mV)
Output cable	Twinaxial LC-OFC, 80cm
Major dimensions	158(W) x 70H(H) x 120(D)mm
Weight	2.1kg

Specifications and design are subject to change without prior notice.

FEATURES

- Features the latest developments in core material technology with laminated ring core construction. Core laminates 5/100mm thick are used in multi-layer lamination configuration to further improve performance in the high frequency range.
- Four times more super-permalloy core material is used than in previous models.
- In previous step-up transformers, the left and right transformer shields were connected together to the ground terminal via the chassis. In the XF-1, only the chassis is used as the ground terminal. The left and right channel transformer shields are not connected to the chassis but are independently connected directly to the pre-amp.
- This construction greatly reduces electrical and magnetic crosstalk and increase both spread and depth for three-dimensional sound reproduction.

- Pin-jack/pin-plug construction is used for good contact characteristics, and all input/output terminal pins are thick-film gold plated for durability.

PRECAUTIONS

- Do not connect to a multimeter in order to check current flow or measure resistance. The current employed in the measuring circuit may cause irreparable damage.
- Because MC cartridges have an impedance much lower than MM cartridges, all contact point must be cleaned regularly. **Dirty contact points can easily block passage of the signal.**
- The XF-1 is available in three versions according to input impedance.* Please be sure that the version you selected is suitable for the load impedance of your MC cartridge.
*** (Please refer to Specifications at the end of this manual.)**

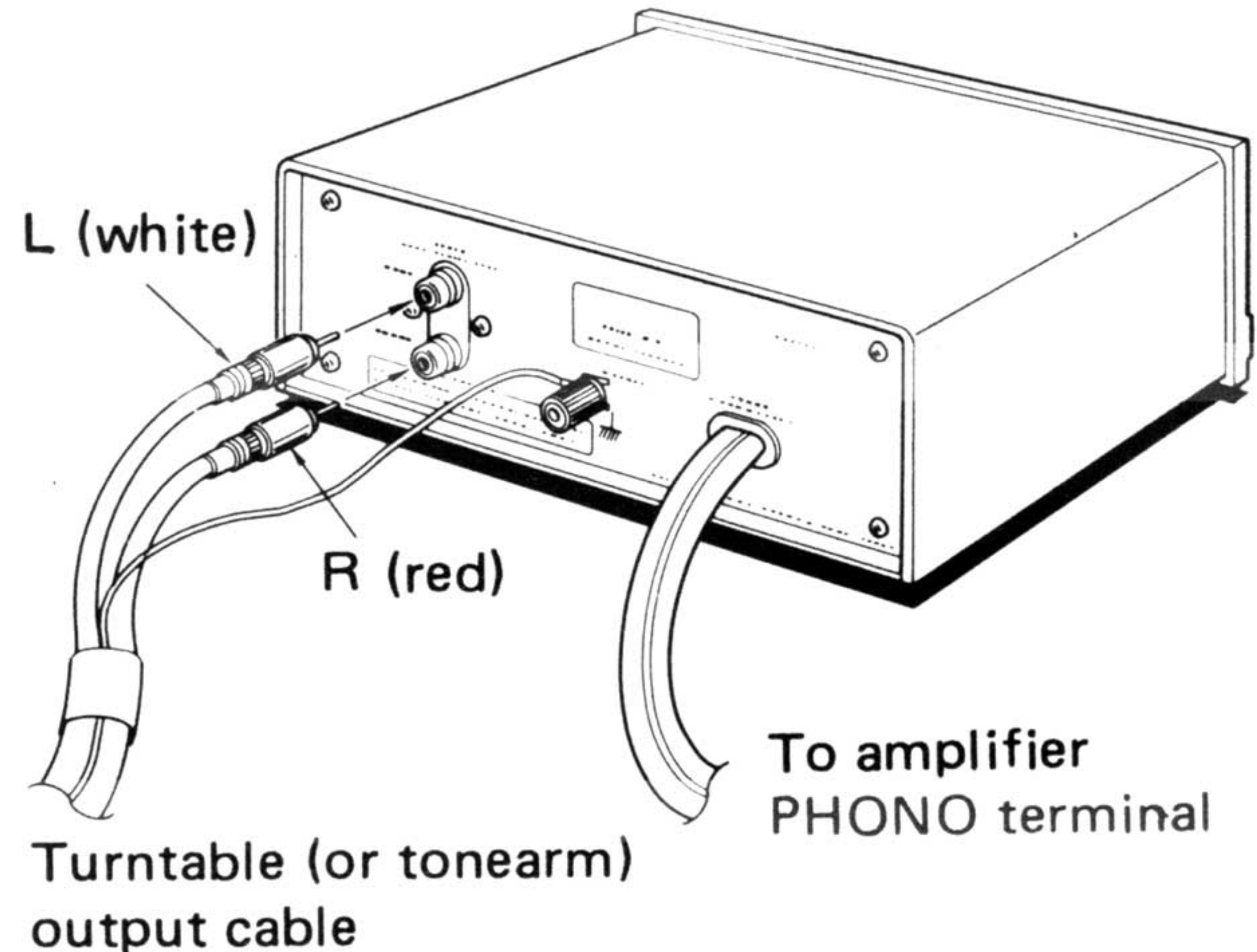
- Do not drop or knock the unit since it incorporates many precision-adjusted component parts.
- Do not attempt to replace or modify any

internal component part yourself. Such tampering invalidates any warranty, and such units will not be accepted for repairs by the manufacturer.

OPERATION

First turn the amplifier power switch off before commencing cable connections to the XF-1.

1. Connect the tonearm output cable to the XF-1 INPUT terminals (checking that left and right channels are properly connected), and attach the ground lead to the GROUND terminal.
2. Connect the XF-1 output cable to the PHONO terminals of the amplifier, and the ground lead to the ground terminal. (Red cable for right channel, and white cable for left channel).



SERVICE NOTES

Unlike head amplifiers, step-up transformers generate no intrinsic noise of their own. Any noise generated while using the XF-1 will more than likely be of external origin. If noise is generated, even after checking that all connections are normal,

1. Try re-positioning the XF-1 unit (moving it as far away as possible from the amplifier power transformer and the turntable motor, or any other possible cause).
2. Rearrange the cables and ground leads.
3. Recheck all connections, particularly the ground terminal connections, and the minus side of the pin-to-jack connections.

SPECIFICATIONS

Type	Step-up transformer for MC cartridge
Input impedance	Type L $0 \sim 3\Omega$, Type M $4 \sim 18\Omega$, Type H $19 \sim 40\Omega$
Load impedance	$47k\Omega \sim 50k\Omega$
Max. Gain	Type L 36dB, Type M 25dB, Type H 18dB
Frequency response	5Hz \sim 50,000Hz (input level 0.3mV)
Output cable	"DOUBLINESS" High Speed Cable, 70 cm
Major dimensions	158(W) x 70(H) x 120(D)mm
Weight	2.1 kg

Specifications and design are subject to change without prior notice.



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