

JVC | Instruction Book

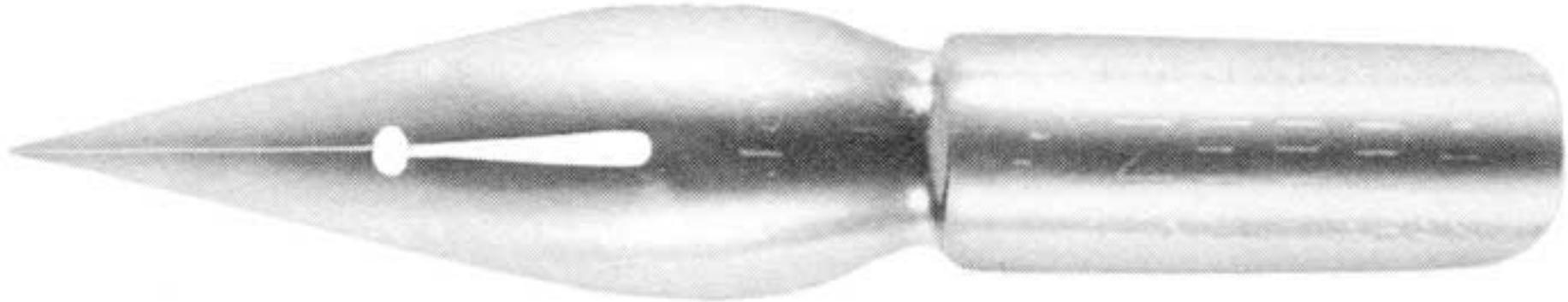
STEREO PHONO CARTRIDGE **MC**



Thank you for purchasing the JVC MC-1 direct-coupled moving-coil cartridge. To be sure of getting the best possible results from this unit, please read this instruction manual carefully.

FEATURES

1. Less weight was achieved in reducing the weight of the armature through the employment of a super-lightweight microcoil based on the latest IC technology.



Coil → 

Fig. 1

- The microcoil consists of a wafer and a precision coil of approx. 1 mm square formed thereon. Its accuracy and reliability are extremely high, while unit-per-unit variations are minimized. The weight is almost a one hundredth that of conventional coils.

2. The direct-coupled configuration in which the microcoil is attached to the forward part (just behind the stylus) of the cantilever provides the following advantages:
 - Flat frequency response with reduced phase delay is obtained since the cantilever and the stylus make almost identical movements.
 - Stable performance is assured since the effect of temperature fluctuations on the cantilever and the damper is negligible thanks to the coil being near the stylus.
3. Employment of a coreless coil eliminates the possibility of magnetostriction.
4. The magnetic circuit is constructed of a samarium cobalt magnet and an iron cobalt yoke in the vertical configuration for obtaining an excellent magnetic efficiency so that the merit of the direct-coupled construction can be fully utilized.
5. The attached 0.1 mm square Shibata stylus ensures good response even at high frequencies and a long service life (of about 700 to 1 000 hours of operation).

REPLACEMENT

The stylus affixed to this cartridge is non-replaceable. After use of about 700 to 1 000 hours (about 2 years with one hour of operation per day), the entire cartridge is likely to need replacement with a new one.

For details consult your JVC dealer.

CONSTRUCTION AND NAMES OF PARTS

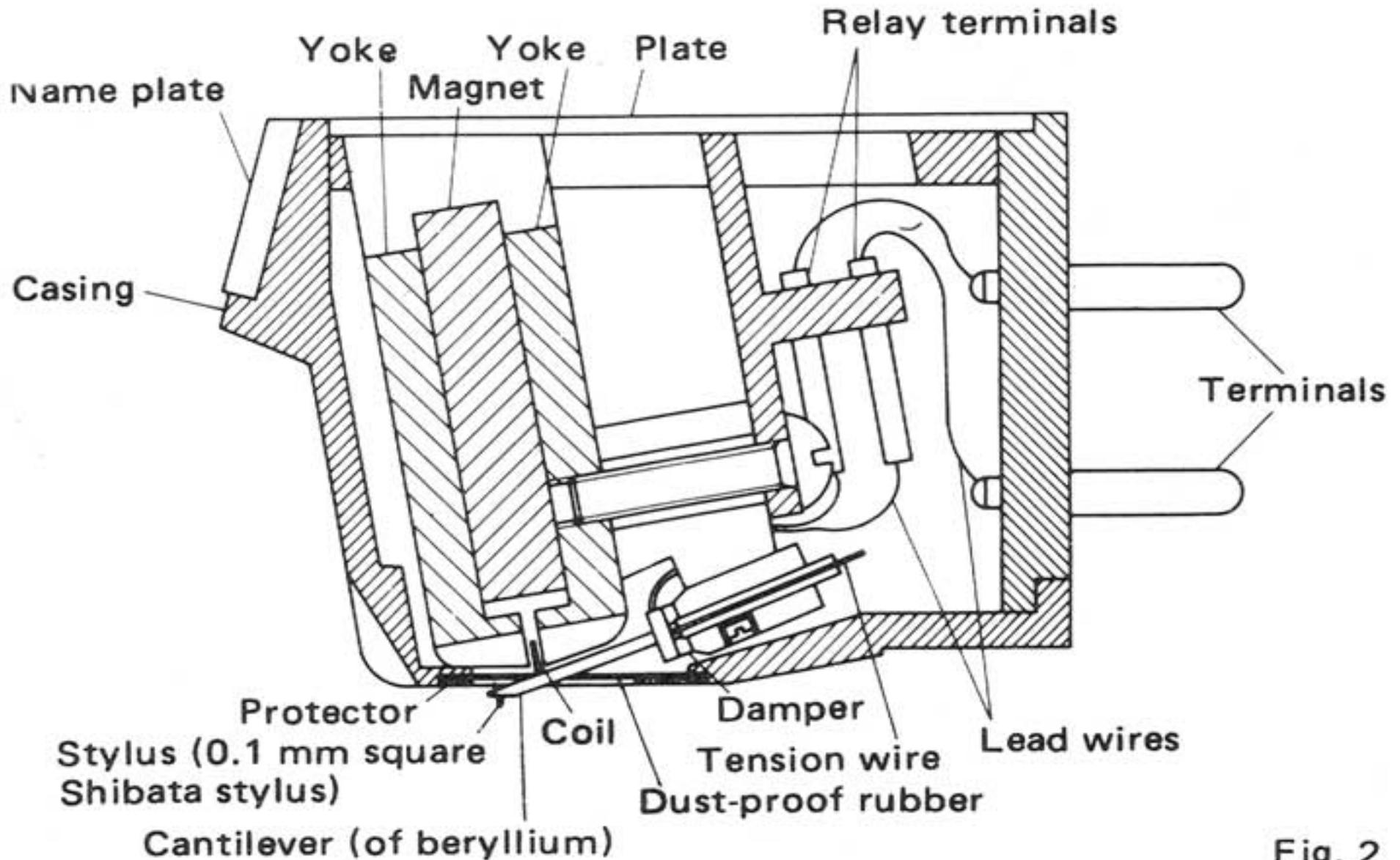
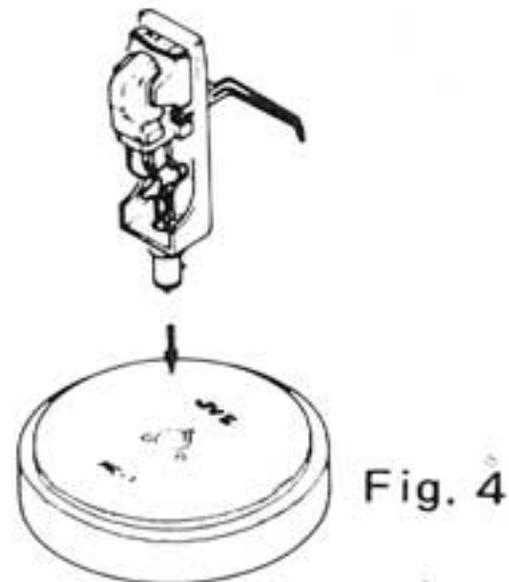
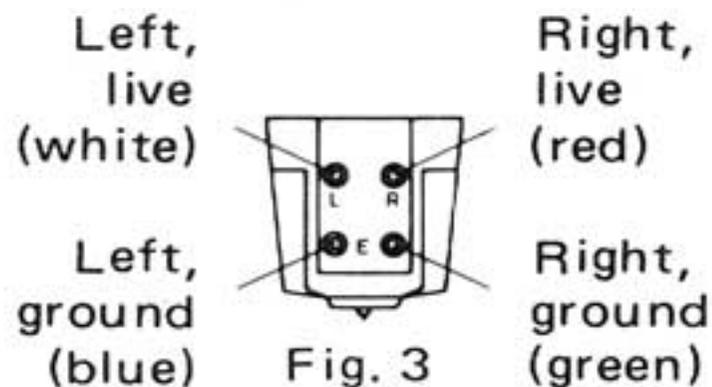


Fig. 2

HANDLING

1. Be very cautious not to damage the stylus when mounting the cartridge on the headshell.
2. Connect the cartridge and headshell terminals in proper order. The output terminals of the cartridge are arranged as shown in Fig. 3. Connect these correctly to the lead wires of the headshell.
3. Adjust the overhang as specified for the tonearm being used.
4. Adjust the mounting position so that the cartridge is parallel to the record surface in all directions while the stylus is tracing the record groove.
5. Apply a tracking force of 1.5 g using an accurate tracking force gauge or a direct readout tracking force control knob.
6. The output voltage of this cartridge is 0.2 mV, which is lower than that of regular MM cartridges. Therefore, connect this cartridge to an amplifier through a head amplifier or a step-up transformer for an MC cartridge, or to a preamplifier or integrated amplifier having such a head amplifier.
7. The case which contained the cartridge can be used as a stand for a spare headshell, as shown in Fig. 4.



PRECAUTIONS

1. Use a turntable of at least the medium-quality class.
2. Use a high-performance tonearm of the universal type.
3. Do not apply a tracking force more than specified since the tonearm assembly is finished to precise dimensions.
4. Before playing a record, wipe the stylus gently in the direction indicated in Fig. 5 using a stylus cleaner.
5. Clean the record surface before playing. This will prolong the service life of both the stylus and the record. (Do not use a spray-type, liquid cleaner.)
6. The MC cartridge includes a powerful magnet. If it is used with a turntable having an iron platter, the stylus can be prone to an excessive tracking force through being drawn to the record surface by attraction. Also, if a tracking force gauge made of iron is used, the stylus may be damaged since it is drawn to this metal.
7. If dust adheres to the dust-proof rubber, remove it using adhesive tape or a soft brush.

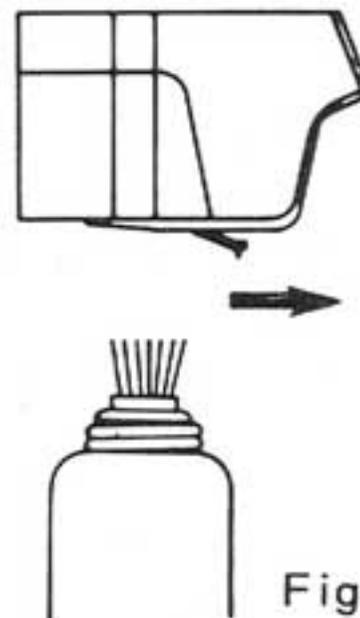
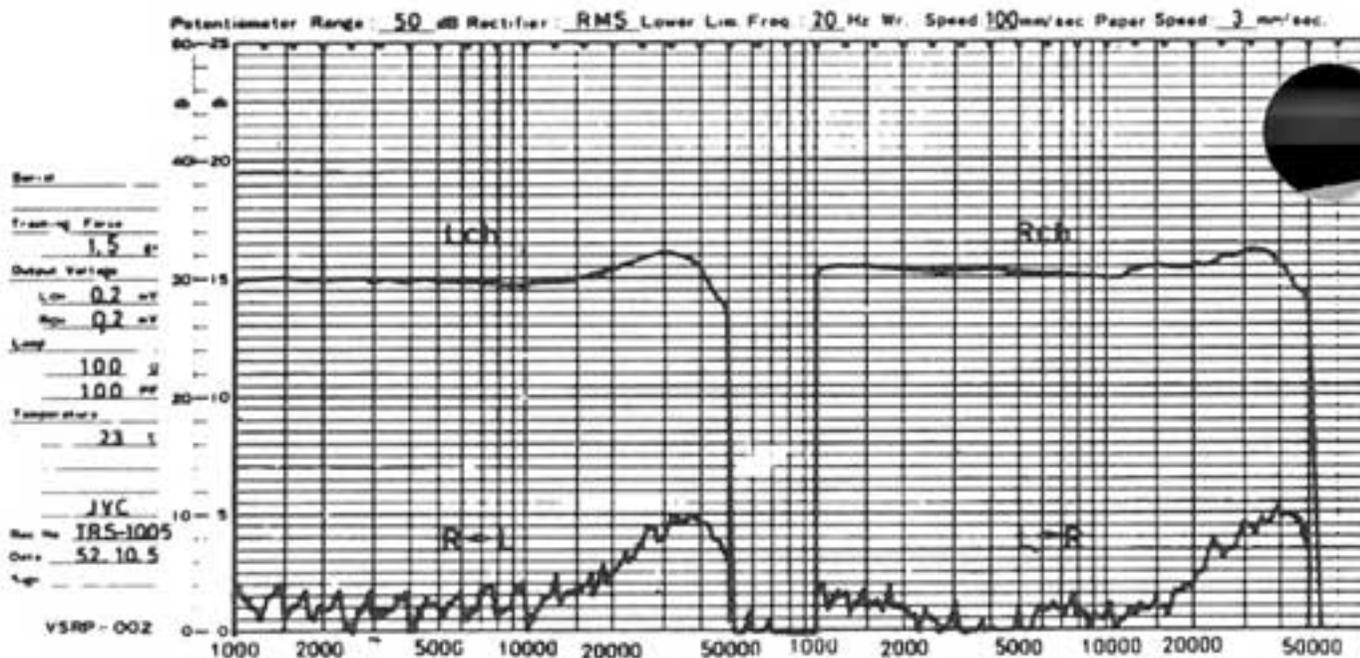


Fig. 5

1,000 Hz ~ 50,000 Hz



20 Hz ~ 20,000 Hz

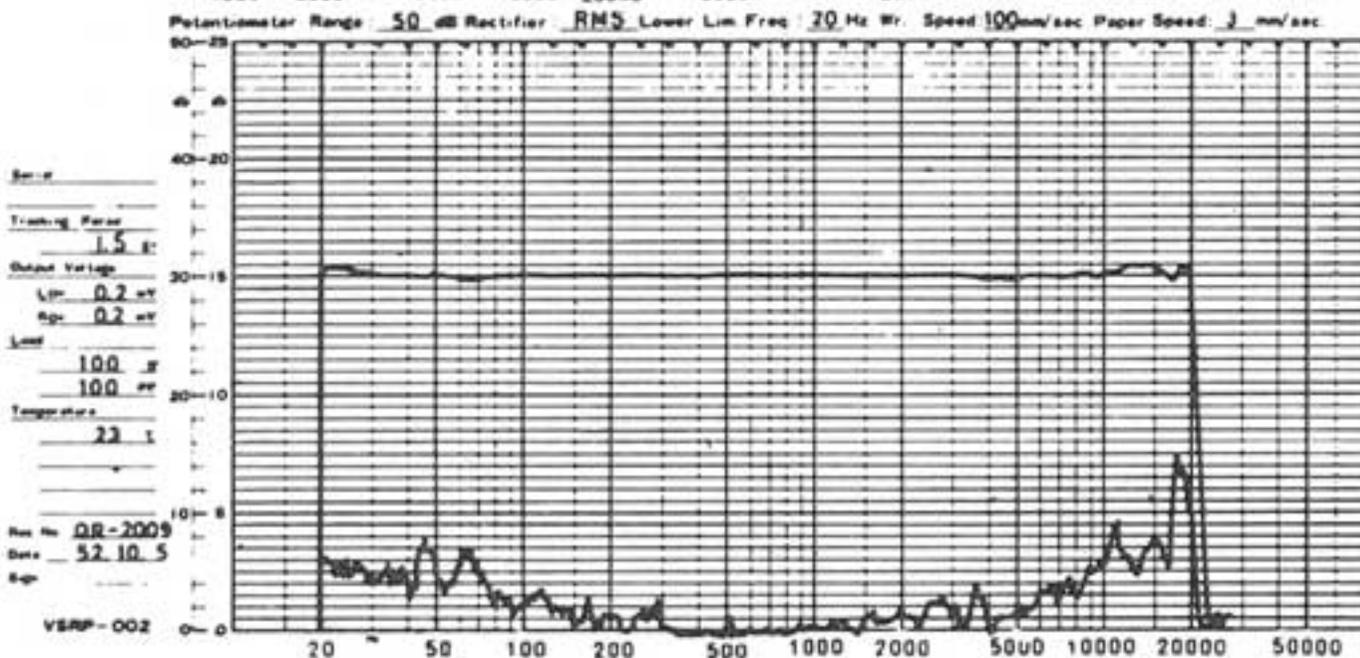


Fig. 6

SPECIFICATIONS

Type	: Direct-coupled, moving-coil cartridge for 2-channel disc playback
Stylus	: Shibata stylus (0.1 mm square diamond)
Output	: 0.2 mV (1 kHz, 5 cm/s)
Output balance	: Within 1 dB
Frequency response	: 10 – 50 000 Hz
Effective mass of armature	: 0.45 mg
Vertical tracking angle	: 20°
Channel separation	: 27 dB (at 1 kHz)
Electrical impedance	: 30 ohms (at 1 kHz)
DC resistance	: 30 ohms
Tracking force	: 1.5 ± 0.15 g
Compliance	: 8 x 10 ⁻⁶ cm/dyne (100 Hz, dynamic)
Load impedance	: Over 30 ohms
Weight	: 8.7 g

DIMENSIONS (in mm)

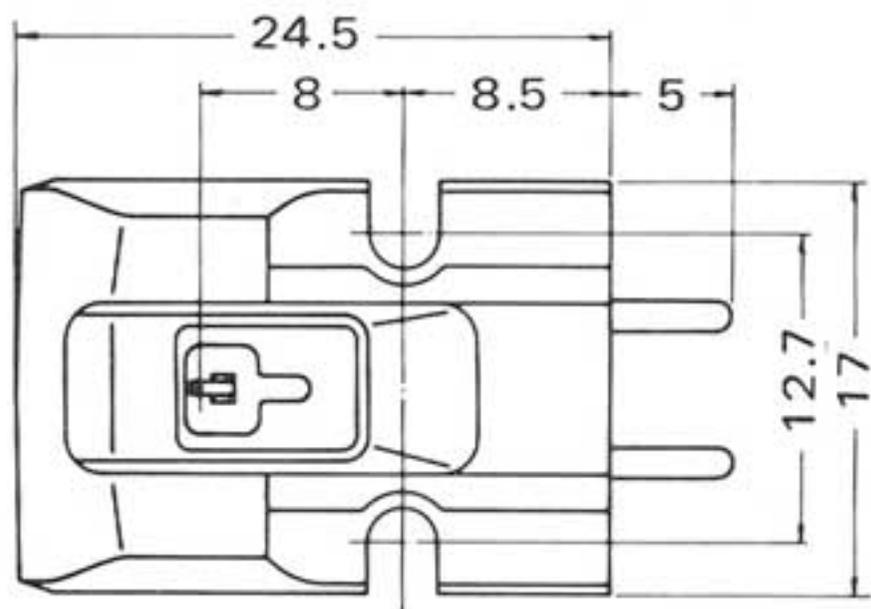
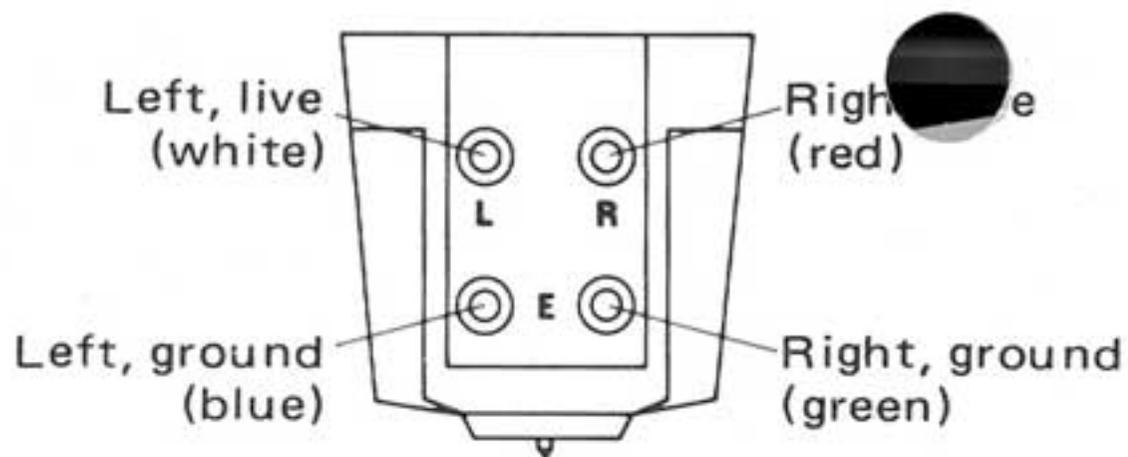
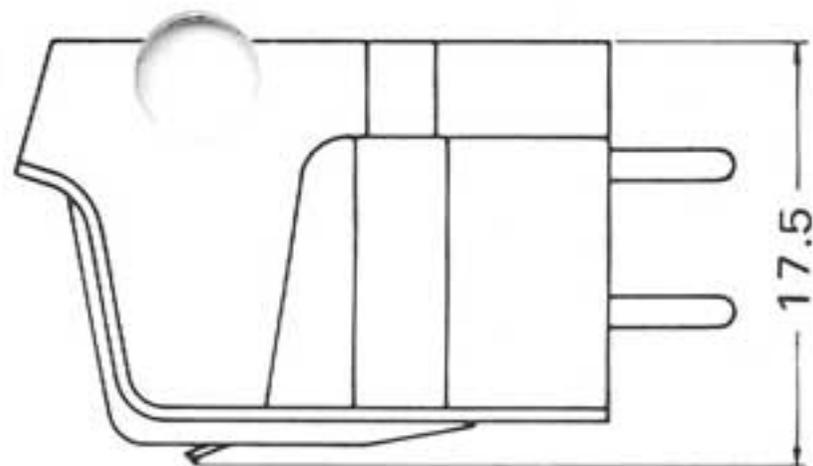


Fig. 7

ACCESSORIES

Screwdriver	1
Terminal tips	5
Nuts	2
Screws (long-stem)	2
Screws	2
Washers	4
Stylus cover	1

JVC

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