

# CARTRIDGES

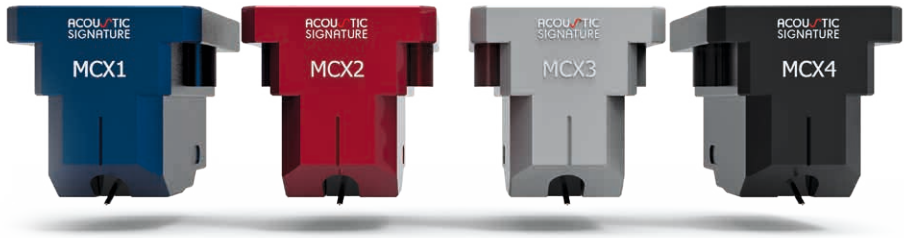
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## INSTRUCTION MANUAL

ACOUSTIC  
SIGNATURE

Teutonic engineering.

**MCX system**



**MCX 1** is a cartridge that delivers open, dynamic sound with a slight touch of warmth.

**MCX 2** adds more dynamics and resolution, sounds very open and reproduces more details. Sound is very neutral.

**MCX 3** is for audio lovers. The MCX 3 delivers all the information of your vinyl. Very rich sound, wide soundstage and ultra resolution in high frequency.

**MCX 4** is equipped with a Shibata diamond. Its slim, highly polished profile allows an exceedingly wide contact area to the groove walls and ensures notably detailed reproduction throughout the spectrum, including even the most high frequency groove information – for real music lovers.

## Mounting the cartridge

### Connecting

Please correlate the colour code for the terminals on the drawing with the colour codings on the cartridge. The terminals for right and left channel have the same position as normal for cartridges.

### Mounting

For mounting the cartridge to the headshell you have 2 pairs of screws at your disposal. It is of great importance to use the right length of screws when mounting the cartridge. Using too long screws may stop the screws inside the cartridge resulting in insufficient mounting in the headshell and may damage the cartridge. The choice of screw length is depending on the thickness of the headshell, and a maximum of 2.5 mm free screw length under the headshell:

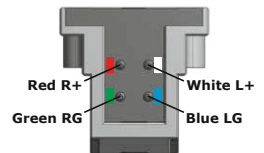
- > for headshells up to 3.5 mm use 5 mm screws
- > for headshells with the thickness over 3.5 mm use the 7 mm screws

Mount the cartridge loosely to the headshell at this moment.

Front view



Back view



## Azimuth, vertical alignment

Azimuth adjustment or vertical alignment of the cartridge is very important for optimal channel separation. The checking is easily done by lowering the cartridge onto a thin mirror placed on the record surface and examining whether the reflection lines up square with the cartridge, when viewed from the front. During this test tonearm must still be parallel to the record surface. If not obtainable because of mirror thickness, remove record and work directly on the mat. If alignment is still incorrect and not adjustable because of fixed headshell, the only solution is to resort to packing on one side of the head-shell.

Top view



## Warning

This phono cartridge is only for mounting on tonearms and must not be used for other purposes.

## Tonearm level, vertical tracking angle

Cartridges are constructed so that cantilever angle corresponds to the 20 deg. record cutting angle, when the cartridge is loaded with recommended tracking force and the cartridge base is parallel with the tonearm and this again is parallel to the record surface.



| TECHNICAL DATA                     |
|------------------------------------|
| Output voltage at 1 kHz, 5 cm/sec. |
| Channel balance at 1 kHz           |
| Channel separation at 1 kHz        |
| Compliance, dynamic, lateral       |
| Stylus type                        |
| Tracking force range               |
| Tracking force, recommended        |
| Frequency range at -3 dB           |
| Frequency response 20-20.000 Hz    |
| DC resistance                      |
| Coil Material                      |
| Cartridge weight                   |
| Phono Amp Setting                  |

| MCX-1         | MCX-2               | MCX-3               | MCX-4                  |
|---------------|---------------------|---------------------|------------------------|
| 0.55 mV       | 0.55 mV             | 0.35 mV             | 0.3 mV                 |
| < 1.5 dB      | < 1.5 dB            | < 1.2 dB            | < 1.0 dB               |
| > 21 dB       | > 21 dB             | > 24 dB             | > 26 dB                |
| 15 µm/mN      | 15 µm/mN            | 15 µm/mN            | 15 µm/mN               |
| Elliptical    | Nude Elliptical     | Nude Fine Line      | Nude Shibata           |
| 2.1-2.5 g     | 2.1-2.5 g           | 2.1-2.5 g           | 2.1-2.5 g              |
| 2.3 g (23 mN) | 2.3 g (23 mN)       | 2.3 g (23 mN)       | 2.3 g (23 mN)          |
| 20-25.000 Hz  | 20-25.000 Hz        | 20-25.000 Hz        | 20-25.000 Hz           |
| ± 2,5 dB      | ± 2,5 dB            | ± 1,5 dB            | ± 1,5 dB               |
| 7 Ohm         | 7 Ohm               | 5 Ohm               | 5 Ohm                  |
| Copper        | Pure 4-nines silver | Pure 4-nines copper | Gold Plated OFC copper |
| 12,2          | 12,2                | 12,6                | 12,6                   |
| 100 Ohm       | 100 Ohm             | 100 Ohm             | 100 Ohm                |

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