



# Dynavector KARAT 17DX MC Cartridge

## Instruction manual

### Description

Drawing on Dynavector's 'Dispersion theory' that produced the original world first KARAT series Dynavector are indeed proud to announce the entirely new 17DX KARAT Diamond phono cartridge. As in the past KARAT series, the frequency response of the new KARAT 17DX at 20 to 20,000 Hz is ruler flat providing an extremely accurate groove tracking ability. However, several new features will ensure that the new 17DX will shortly gain the same legendary status and even surpass its predecessors.

### Features and improvements

The rationale for the new KARAT 17DX was to significantly improve upon the now legendary original KARAT series. After exhaustive listening and technical research, the decision was made to incorporate a body machined from solid brass, Samarium-cobalt magnets for lower magnetic resistance, unmatched coil winding techniques, the incredible 1.7mm long cantilever with Micro Ridge stylus all combining in a brand-new KARAT 17DX that will delight the listener, providing clear and articulate reproduction of analog recordings without a hint of harshness in the high frequency range.

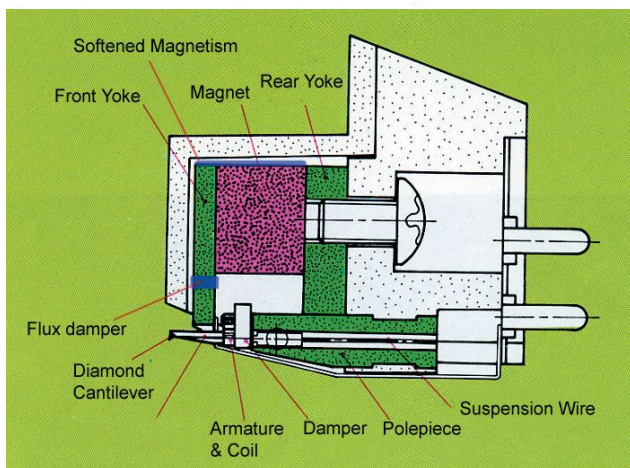
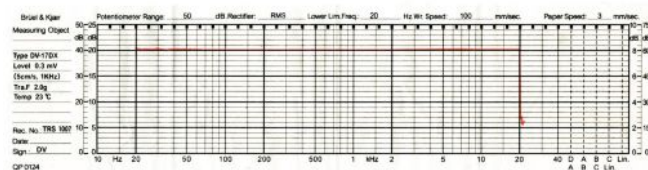
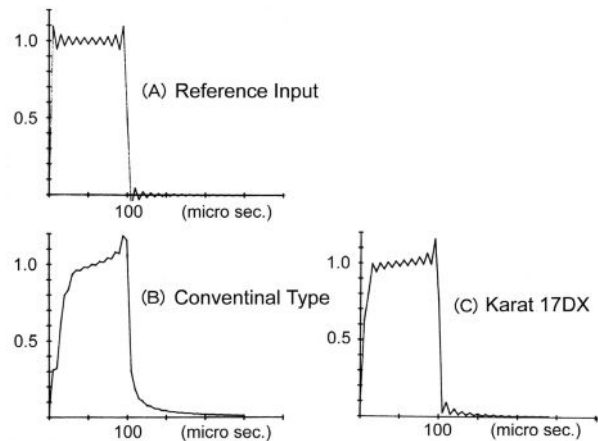
### Dispersion theory

The KARAT 17DX along with a ruler flat frequency response extending to 100KHz also utilizes Dynavector's unique 'Dispersion theory': The effect of vibration dispersed over the cantilever and its resulting frequency response particularly in the area of higher harmonic content which has been largely ignored by other phono cartridge manufacturers.



The effects of this dispersion as shown by Figure (A) is the square waveform on the input showing a harmonic frequency with up to 200th higher harmonic content. Figure (B) shows the wave deformation caused by the dispersion on a 7mm long conventional cantilever. Figure (C) shows the same effect of dispersion on the KARAT 17DX 1.7mm cantilever.

The detrimental effect of dispersion on the longer cantilever is demonstrated by these diagrams and the advantage of the KARAT 17DX can be easily recognized.

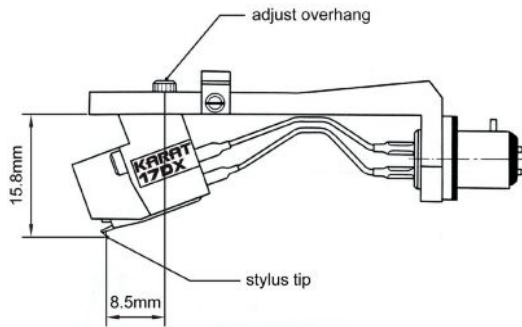


In summary: The adoption of the KARAT series 1.7mm long solid diamond cantilever was the result of proven research and development providing the least disturbed waveform and fastest transmission speed between the high and low frequencies up to 100KHz. The absence of any harshness particularly in the important high frequency area is immediately distinguished, providing both articulate and delicate reproduction of analog recordings with no hint of a loss of bass.

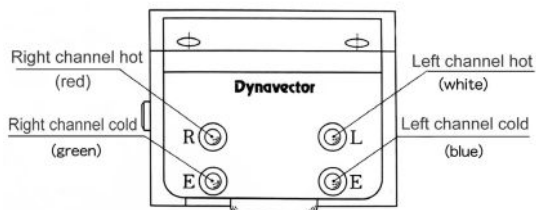
## ■ Fixing and connection

(1) The thread size of the mounting holes of the KARAT 17DX is M2.5, always use the enclosed screws to mount the cartridge. The thread holes are only 5mm depth, so only use the screws of correct length as supplied.

(2) When fixing the cartridge to the headshell, adjust the overhang correctly according to tonearm manufacturer's instructions.



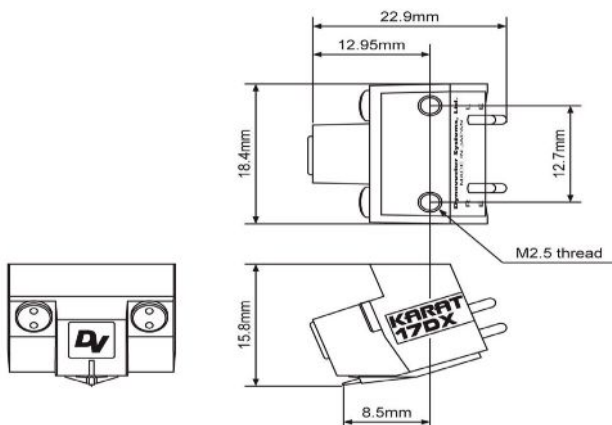
(3) Connect the lead wires from the tonearm to each pin as shown below. Please do not use soldering iron. It will lead to broken wires.



(4) The recommended tracking force is 1.8 g ~ 2.0 g.

As the cantilever of 17DX is very short (1.7 mm), there is a danger that the bottom body will touch the record surface with excessive tracking force. Please ensure the correct tracking force is applied.

(5) Adjust the anti-skate to the tonearm manufacturer's directions and to the recommended tracking force equivalent. The KARAT 17DX can be easily damaged by incorrect tracking force and bias (Anti-skate) adjustment being incorrectly applied. Excessive bias adjustment can lead to the cantilever being misaligned.



## ■ Care and Maintenance

Keep your records clean. Dust causes record wear and sonic distortion. When cleaning the stylus use the soft brush supplied with the cartridge. Brush only from back to front to avoid damage to the stylus assembly. If a dark deposit like tan should appear on the stylus tip, always use the soft brush with a minimum amount of high quality stylus cleaning fluid. Non-alcohol stylus cleaning fluid is recommended as routine maintenance. We do not recommend using commercial cleaning vibrators.

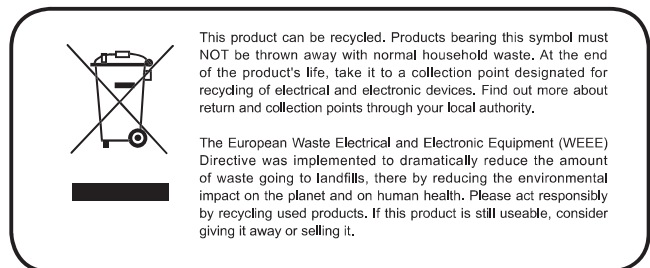
## ■ Warranty and stylus replacement

In the case of a worn stylus, Dynavector undertake to provide an exchange service. Exchange service means that we replace the damaged cartridge with new same model under exchange price. For detail, please consult the Dynavector distributor in your country or the retailer you purchased the cartridge from.

The warranty does not cover stylus wear nor cover damage to the stylus assembly arising from mishandling or abuse. Should a defect occur, the cartridge and its casing together with the warranty card should be carefully packed and returned to the retailer.

## ■ Specifications

Type	: Low output moving coil cartridge with flux damper and softened magnetism
Output voltage	: 0.3mV (at 1KHz, 5cm/sec.)
Frequency response	: 20 - 20,000Hz (±1dB)
Channel separation	: 25 dB (at 1KHz)
Channel balance	: 1.0 dB (at 1KHz)
Compliance	: 15 mm/N
Impedance	: 32 ohms
Stylus tip	: small size Micro-Ridge Line contact
Cantilever	: 1.7mm length solid Diamond
Recommended load impedance	: >100 ohms
Tracking force	: 1.8 - 2.0 g
Weight	: 11.0 g



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