

DV

20 Type 2

**HIGH OUTPUT
MOVING COIL CARTRIDGE**

Dynavector Systems, Ltd.

Dynavector DV/20 Type 2 cartridges are manufactured by our advanced technology of long history as the moving coil cartridge manufacturer. Before using this unique high output moving coil cartridge, please read this manual to have the best result.

Outstanding features of DV/20 Type 2

This cartridge is the successor of our DV/20A, B which are famous by their musicality and the high performance as well as the high output voltage. They enjoyed the very good reputation and reviews in the world. They were designed to be used for either normal stereo or CD-4 quadraphonic reproduction, but unfortunately CD-4 quadraphonic has gone now. We redesigned and improved DV/20A, B to meet the present situation of recording technic.

DV/20 Type 2 has now the following features.

By improving the automatic winding machine much more turns as much as 450 turns per channel of very thin wire are now possible, resulting in 3.6mV/5cm/sec in output voltage which seems to be a

revolution for the moving coil cartridge. By this very high output voltage, DV/20 Type 2 is used as easily as normal moving magnet cartridges. Neither pre-preamplifier nor stepping-up transformer is needed.

Simply connect to the input jacks of the preamplifier with no attention to the capacitance value of the connecting sealed wire to which the moving magnet cartridge is sensitive.

Internal impedance of DV/20 Type 2 is not so inductive as in the moving magnet cartridge but purely resistive, therefore, DV/20 Type 2 is not affected by the load condition.

You can use any value from 10k ohms to 50k ohms as the terminating load resistance.

Mechanical resonance of the cantilever is cleverly damped by the very small size laminated ceramic capacitors, resulting in the remarkably flat frequency response which is shown by the individual data record contained in the carton box.

In the magnetic circuit, the very strong but very light weight rare earth magnet is used.

The main frame is made of the glass fiber reinforced polyester which is far lighter than the aluminum alloy and is as hard as metal. Thanks to these selection of materials, the total weight of DV/20 type 2 is 5.3 grms.

Cantilever of 20A₂, B₂, is either tapered aluminum or straight solid beryllium. The stylus is the naked elliptical diamond.



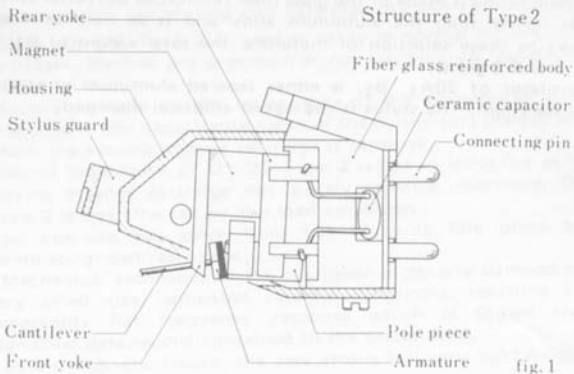


fig. 1

Fixing

Fix the cartridge to the headshell by the screws and nuts of the proper length which are in the carton box. You are advised to adjust the position of the cartridge in the headshell so that the length from the connector to the stylus becomes 50mm.

The almost all tone arms have the correct over-hang by this adjustment. See the next figure.

After those adjustments, make sure that the tone arm looks parallel to the record surface to ensure the correct vertical angle of the cantilever. If not parallel, adjust the height of the tone arm. (fig. 2, 3, 4)

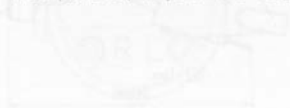
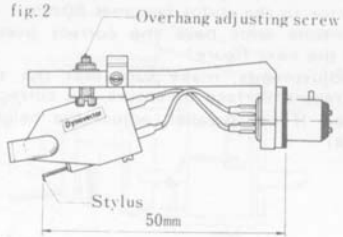


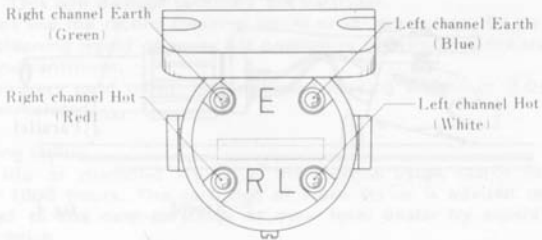
Fig. 2

Fig. 3

fig. 2



Wire Connection



Rear View

fig. 3

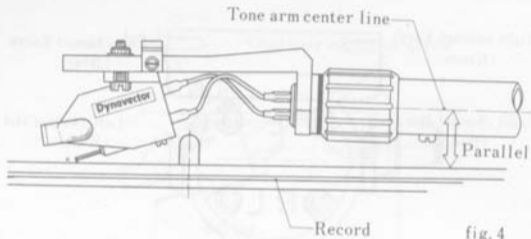


fig. 4

Caution

It should be avoided to connect leads to pins by the soldering heater. This will damage seriously the cartridge.

Do not use the record cleaning liquid or spray to clean the stylus. Some cleaning liquid or spray has possibility to dismount the stylus from the cantilever.

In the very cold room, the increased playing weight of 2.0gms is recommended.

Changing stylus

The life of diamond stylus in the normal usage seems to be 700 ~ 1000 hours. The cartridge of worn stylus is advised to be replaced to the new cartridge at your local dealer by separately settled price.

Technical Specification of DV/20A₂, B₂

type	high output moving coil
output voltage	3.6mV/1kHz/5cm/sec
frequency response	20 ~ 20,000Hz
channel balance	1dB (1kHz)
channel separation	20dB (1kHz)
compliance	24×10^{-6} cm/dyn
impedance	R = 510ohms, L = 1 mH
stylus	0.3 x 0.7mil, elliptical
cantilever	tapered aluminium (20A ₂) straight beryllium (20B ₂)
vertical tracking angle	20°
playing weight	$1.8 \begin{matrix} + 0.5 \\ - 0.2 \end{matrix}$ grms
height	17mm
weight	5.3grms

Limited Warranty

This cartridge is guaranteed for a period of one year against electrical and mechanical defects provided the instructions have been adhered to and the form overleaf has been completed and sent to us within 14 days of purchase.

This guarantee 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 should be carefully packed and returned to the retailer quoting the cartridge serial number on this guarantee.

Dynavector Systems, Ltd

Tokyo, Japan

Please complete the three sections below and send to
the address printed on the reverse side of this card
within 14 days of purchase.

Name _____

Address _____

Retailer's Name _____

and Address _____

Date of Purchase:

SERIAL NUMBER	08903
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