

# **Dynavector**

## **AMPLIFIERS**

### **Dynavector P75 mk4**

phono preamplifier and  
phono enhancer

**owner's manual**

## IMPORTANT SAFETY INSTRUCTIONS

**Read and keep Instructions:** Please read all safety and operating instructions before using this product and retain them for future reference.

**Heed warnings:** All warnings on the product and in the operating instructions should be adhered to.

**Follow instructions:** All operating and use instructions should be followed.

**Cleaning:** Unplug the product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

**Power sources:** This product should be operated only from the type of power source indicated on the marking label. If you are not sure consult your dealer.

**Servicing:** Refer all servicing to qualified service personnel.

### **Warranty:**

Dynavector products are manufactured to very high standards. The Dynavector P75 has a one year warranty to the original owner, from the original date of purchase, against defects in material and workmanship. This warranty does not extend to damage caused by improper use/installation, faulty ancillary equipment, modifications, unauthorised repair, shipping damage or loss, abuse, accidents, use on improper voltage/current, lightning or other acts of God, normal wear and tear, commercial use, or purchases from unauthorised dealers. Proof of purchase as evidence the unit was purchased from an authorised dealer within the warranty period may be required for warranty service. Do not return the product without first contacting your dealer or Dynavector distributor. This warranty is non-transferable.

### **P75 mk4 Power Supply and Grounding Notes**

The P75 mk4 introduces a new ultra-low noise power supply that is electrically isolated from the input power. It takes the low grade single voltage DC supply from the AC adaptor and converts it to dual high voltages required for true professional quality audio reproduction. Power supply noise is virtually unmeasurable.

The P75 does not have any mains frequency or other low frequency components in the power supply and so hum problems that plague conventional phono amplifiers are eliminated.

While the P75 itself does not generate any hum, the tone arm and interconnect cables may act as antennae and pick up hum. To remove hum, connect an earth wire from the turntable to a ground point, usually the preamp/integrated amp ground.

The P75 is not earthed. An earth terminal is provided on the rear panel that will allow the P75 to be connected to a ground point if required.

## P75 mk4 Power Supply Requirements

AC to DC power adaptor 12VDC +/-15% 350mA (min)

Two pin connector centre positive

Outer Diameter 5.5mm

Inner Diameter 2.1mm

**Note: Power supply is not included.**

Please purchase a suitable supply at your local dealer.

## Specifications

The P75 mk4 is a stand-alone phono to line level amplifier. It can operate with almost any cartridge as follows:

Cartridge type	Input sensitivity	Gain	Loading $\Omega$ (ohms)
<b>Low output MC</b>	0.2mV (200 $\mu$ V)	60 & 63dB	30, 60, 100, 220, 470*
Suggested minimum	0.15mV (150 $\mu$ V)		
Shunt capacitance	660, 760, 860* (pF)		
<b>Medium output</b>	1.0mV	56dB	470 $\Omega$
<b>High output MC</b>	2.0mV	40 & 46dB	47k (47,000) $\Omega$
or Moving Magnet, or Moving Iron			
Shunt capacitance	100, 200, 300* (pF)		

\* Some other R and C loading values available including:

**User/Custom Loading:** User can fit any custom R or C loading value.

### Low Output MC Phono Enhancer

Specifications vary according to cartridge make and model. Output level determined mainly by the cartridge internal DC coil resistance. Three resistance/gain adjustments available.

PE Mode only works with low output MC cartridges. It may not suit all brands or models. Results obtained depend on the quality of the cartridge's magnetic circuit. Unsure? Try it out, it can do no harm.

**Warning:** Under no circumstances should a signal generator be used with the phono enhancer circuit, as excessive current from the generator may damage the P75.

Always turn off power to the audio system (including power to the P75) when altering jumpers or settings inside the P75.

## P75 mk4 Jumper Location and Settings

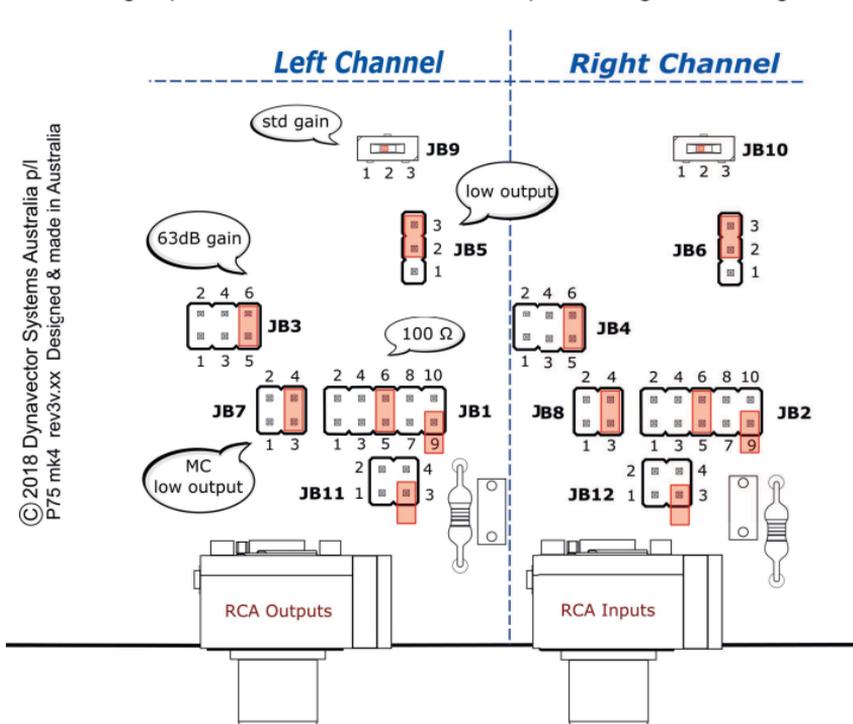
The P75 can be adjusted to suit any cartridge on the market. Adjustment is simple. No soldering or extra parts needed. The different settings are made by changing the position of jumpers on the Jumper Blocks. The layout of the jumpers is shown below.

### Standard / Factory Default Setting

The P75 is shipped from the factory as follows:

**Low output moving coil 100 ohm 63dB gain.** Shown below.

This setting is perfect for about 95% of low output moving coil cartridges.



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Key		
Function	Dwg	Jumper
Short		on
Open		off
X		on or off (don't care)
Open/Spare		half on - for unused jumpers

**Tip:** place unused/spare jumpers half-on (just connected to one pin). This prevents them getting lost.

## Low output MC - standard phono

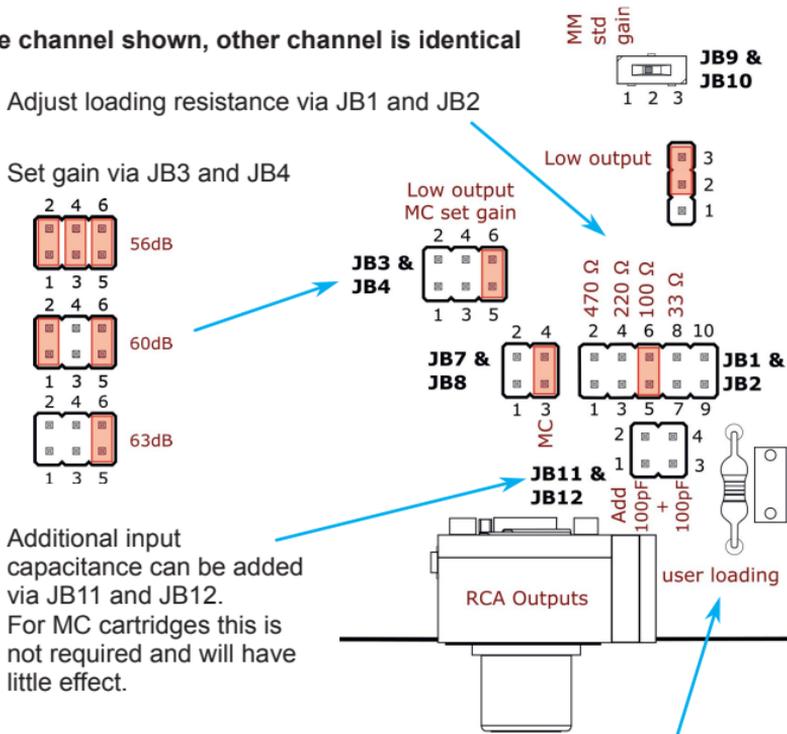
The diagram below shows the available settings for using the P75 in standard amplifier mode with low output moving coil cartridges.

Not sure what setting to use?

The cartridge manufacturer usually recommends loading settings.

If no cartridge information is available, we strongly recommend the default setting of: 100 Ohm, 63dB gain. (As per the jumper position shown below).

One channel shown, other channel is identical



Fit custom Resistor and Capacitor loading here  
(remove normal loading jumpers from JB1 and JB2)

## Medium output - 1mV MC

Use "Low output MC - standard phono" mode above.

Set gain to 56dB by fitting all three jumpers to JB3 & JB4.

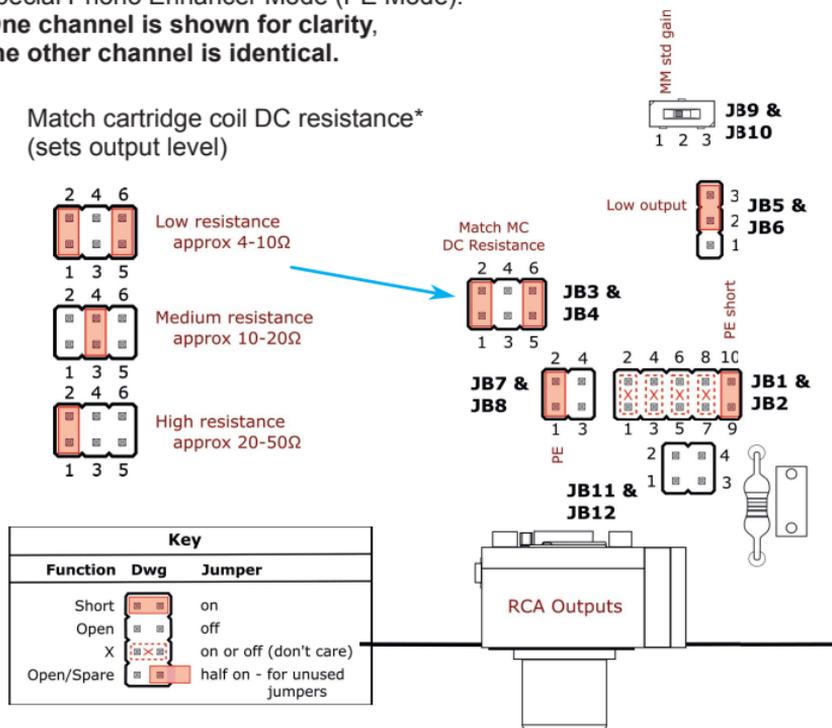
Set loading to 470  $\Omega$  via JB1 & JB2.

See above for jumper locations.

## Low output MC - Phono Enhancer Mode (PE Mode)

The diagram below shows the available settings for using the P75 in the special Phono Enhancer Mode (PE Mode).

**One channel is shown for clarity, the other channel is identical.**



### Phono Enhancer mode notes

\* The coil resistance is obtained from the cartridge specifications.

This resistance is the DC resistance of the coil, sometimes referred to as the impedance. *It is not the cartridge loading resistance.*

An example may help:

Dynavector's DV XX2 mkII specification sheet gives the following:

Impedance

R = 6  $\Omega$  (ohms)

Recommended load resistance

>30  $\Omega$ . *Ignore this in PE Mode.*

The DC coil resistance for the DV-XX2 mkII is 6 $\Omega$  therefore in PE mode, set JB3 & 4 for a low resistance coil (the 4 - 10  $\Omega$  range)

See [www.dynavector.com](http://www.dynavector.com) for complete Dynavector cartridge specifications.

## High output MC or Moving Magnet

One channel shown, other channel is identical

To adjust, slide miniature switch.  
(remove orange cover tape if present)



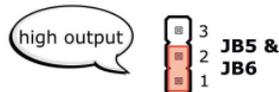
Standard gain



High gain



JB9 &  
JB10



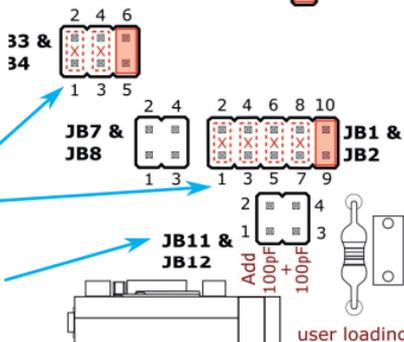
JB5 &  
JB6

Fit one or more jumpers here  
for MM.

Its a good place to keep  
unused jumpers.

Standard MM input Capacitance  
is 100pF.

Additional input capacitance can  
be added via JB11 and JB12.



Key		
Function	Dwg	Jumper
Short		on
Open		off
X		on or off (don't care)
Open/Spare		half on - for unused jumpers

Fit custom Resistor and  
Capacitor loading here.

## Final comments and advice

The P75 solves most cartridge/phono matching issues by presenting the cartridge with a constant, purely resistive load right across the audio band and beyond. This allows all cartridge types to perform at their best. It also has far superior rejection of common-mode noise than other phono amplifiers making it less susceptible to interference and noise.

Analog playback systems can produce amazing, life-like sound quality.

They do need a little more care and attention and small changes can make a big difference.

Our best advice, even in this online world, is to find a great local Hi-Fi dealer and build a long term relationship with them. A great local Hi-Fi dealer can transform the sound in your home.

### **In appreciation**

We wish to express our great appreciation to the late Mr John Bevan Ford of New Zealand-Aotearoa, contemporary Maori artist and music devotee, for his generous assistance with the appearance and functional design of our Dynavector products. While his insight is sorely missed, we shall continue to follow his clear guiding principles.

Haere ra John.



**[www.dynavector.com.au](http://www.dynavector.com.au)**

Designed and manufactured in Australia by  
Dynavector Amplifiers Australia.

For support please contact your  
local Hi-Fi dealer or Dynavector Distributor.