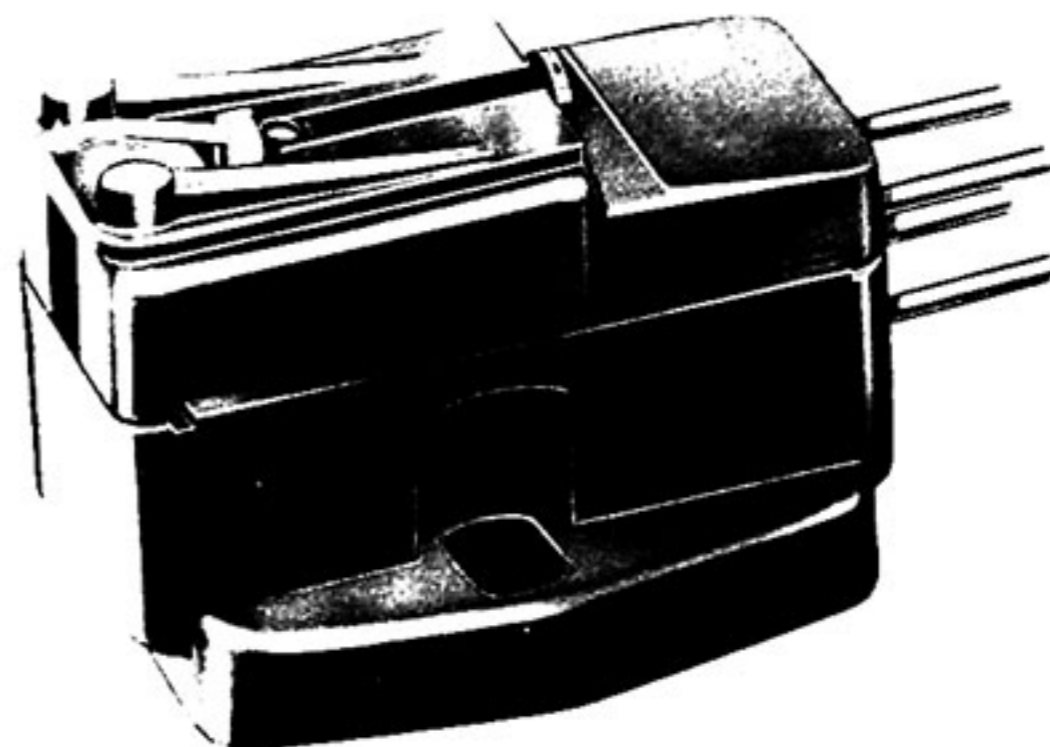


# The **CONNOISSEUR**

## Type SCU1 Stereo Cartridge

This cartridge will satisfy the most discerning audiophile. Examination of the specification and response and separation graphs will confirm our claim but it is the listening test which is the most revealing. The channel separation is well maintained to both ends of the frequency spectrum resulting in a well defined stereo image in correct perspective. The high compliance and low mass of the stylus system in conjunction with a well designed arm allow extremely low downward pressure to be accomplished giving improved performance and reduced record wear.

We unreservedly claim this is one of the best stereo cartridges available to-day.



### SPECIFICATION

Tip mass : 1 milligram.

Compliance : (lateral)  $12 \times 10^{-6}$  cms/dyne.  
(vertical)  $8 \times 10^{-6}$  cms/dyne.

Tracking weight : 2 - 4 grams.

Output : with load - 2 megohms  
no equalisation required.  
150m.V. per channel.

Monaural Cartridges available:- LP with .001" diamond tip.

Std 78 r.p.m. with .0028" sapphire tip.

Output : with load - 100K  
RIAA equalisation required.  
50m.V. per channel.

Stylus tip radius : .0005/.0006" Diamond.

Crosstalk : 20-25 db at 1000c/s.

Fixing centres :  $\frac{1}{4}$ ".

Transducer ceramic.

### FREQUENCY RESPONSE



**A.R.SUGDEN AND CO. (ENGINEERS) LTD., BRIGHOUSE, YORKSHIRE.**

The manufacturers reserve the right to alter design and specification from time to time.

PRINTED IN ENGLAND.

## INSTALLATION

To realise the full performance specification of which this cartridge is capable, the following factors must be borne in mind when installing.

(1) The tone arm employed must have a sufficiently free and unrestricted movement in both its lateral and vertical directions of travel otherwise it would be adversely affected. For example, if the cartridge is required to play with a downward force acting upon it of two grammes and it is fitted in an arm requiring one gramme to overcome friction in either at lateral or vertical direction, a force of three grammes will be required to keep it playing correctly. Therefore, a good arm is required for the full capability to be realised.

(2) In no circumstances should the maximum playing weight be exceeded or the performance of the cartridge will be adversely affected. To ensure correct stylus angle the under surface of the pickup tone arm should lie parallel to the surface of the record when viewed from the side with the pickup on the disc. The cartridge should also be mounted in the head shell or cover so that when viewed from the front the stylus is perpendicular to the record surface. The tone arm itself should be positioned in accordance with instructions given by the manufacturer, thus assuring minimum tracking error and distortion.

## REPLACEMENT OF THE STYLUS SYSTEM

To remove the stylus view the cartridge from the underside. The small plastic fitting holding the stylus assembly will slide backwards and out of the cartridge body leaving the flexible coupling on which the stylus rested. The new stylus can be fitted by sliding it back into position, taking care that it rests firmly in the small slot in the flexible coupling. It may be necessary to pull the flexible coupling back with a pin, so that the coupling lies centrally in the gap of the cartridge base through which it protrudes.

When correctly fitted the diamond stylus should protrude slightly below the moulded guards of the cartridge base.

## CONNECTING TO THE AMPLIFIER

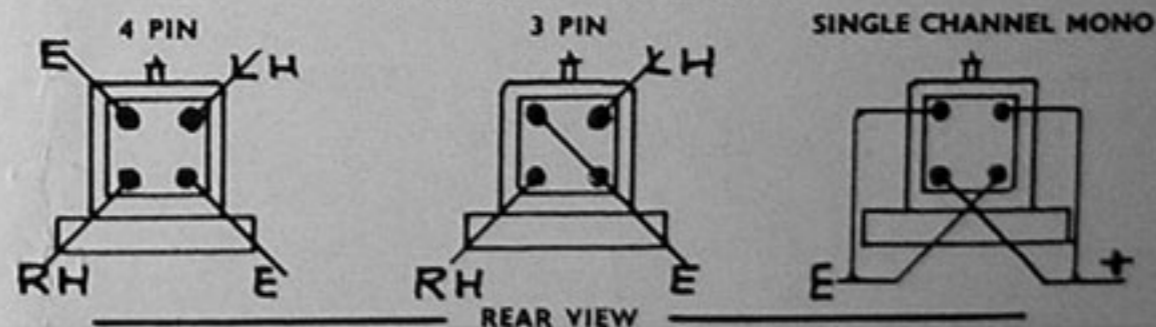
The outputs of the cartridge are connected to the four pins at the rear of the cartridge and may be arranged for either three or four pin socket connection as indicated.

**Please note:** The connecting tags **MUST** be removed from the pins when soldering or the cartridge will be irreparably damaged.

The value of the resistive load employed (e.g. the input resistance or impedance of the amplifier presented to the cartridge) will determine the characteristics and output voltage available. When used with high fidelity amplifiers incorporating RIAA playback characteristics the recommended load should be 50,000 to 100,000 ohms. These are values normally found on the vast majority of amplifiers having inputs intended for use with miniature magnetic or moving coil pickups. Under these conditions of loading the output voltage that may be expected from an average disc will be approximately 25m.V. and the frequency characteristics identical with moving coil or magnetic pickups.

When the cartridge is to be used with amplifiers of medium gain e.g. 50 to 150m.V. input sensitivity, but not incorporating playback characteristics, the load recommended is 1 meg. to 2 megohms. Under these conditions the cartridge will be self-compensating and provide a frequency response approximately the inverse of the RIAA recording characteristics, thus removing the need for complex equalisation networks. Any deviation from normal may be compensated for by means of the average tone controls.

## WIRING DETAILS



## REMOVE STYLUS

