

ABOUT STYLI

The majority of styli produced today are manufactured from synthetic sapphire though diamond styli are being used in increasing numbers particularly on high fidelity pick-ups. Unfortunately, due to misleading advertising in the past, a completely wrong impression has been created that sapphire styli were everlasting. In fact the use of expressions such as semi-permanent etc., have helped to create that myth. Fortunately no such claims are made today not even as regards diamond styli for it is generally realised that neither sapphire or diamond styli are everlasting and that a worn stylus will result in permanent damage to the record.

It should be fully understood that sapphire styli have only an approximate life of 50 hours playing time on the average whereas diamond styli being the hardest known material has a life approximately 25 times that of sapphire—1,250 hours. Both diamond and sapphire styli are manufactured to very high standards of precision and it is not the basic cost of the raw material itself which accounts for the considerable difference in price between the two, but due to the fact that the diamond is shaped and polished by diamond dust which is a lengthy and costly process. It will be seen when comparing the relative costs that the diamond is the obvious choice when it comes to replacing a stylus in spite of the fact that the initial outlay is greater. It should not be assumed that the diamond stylus is only suitable for use with high fidelity pick-ups but should also be advocated for use with the average radiogram and record player.

Whether using a sapphire or a diamond great attention must be paid to the question of wear, as replacement at the right time is of vital importance and the approximate estimations of average life given earlier in this article will serve as a reliable guide. The only positive check of its condition however is by examination through a microscope preferably with a magnification of at least one hundred times. A professional microscope is ideal but often very expensive and it is perhaps as well to mention at this stage the Philips stylus tester and Goldring stylus microscope which are mentioned later in this book and with which any type of stylus may be inspected. With this facility available it is then possible to examine the stylus for flats

on either side of the stylus tip and in the case of the dealer to produce positive proof to the customer as to the actual condition of the stylus. The stylus must be changed immediately the slightest flat is apparent as continued use beyond this point will accelerate stylus wear and inevitably cause damage to the record.

This damage to the record will present itself in two ways. Firstly, due to the sharp edges formed on the stylus tip it will be impossible for the stylus to correctly trace the modulations in the groove particularly at high frequencies where there are sudden changes in the direction of the modulation. Secondly, increased surface noise will be noticeable, due mainly to the minute record particles actually cut from the groove. This of course limits the reproduction of the top frequencies now available from an L.P. record to something in the region of 9,000 c/s. It is obvious therefore that a worn stylus is about as kind to records as a cold chisel.

The dimensions of a stylus tip is so designed that its radius fits the record groove approximately midway between top and bottom. To do this correctly the tip radius has to be near enough the three thousandths of an inch for 78 r.p.m. Records—one thousandth of an inch for L.P. records and half-thou' for Stereo records. Many manufacturers are however using the compatible size tip radius of three-quarter-thou' for both L.P. monaural and Stereo records and claim no increase in record wear. The stylus pressure of the pick-up is also an influencing factor in record wear and close attention must be paid to manufacturers recommended playing weights. This varies considerably according to the type of pick-up and stylus tip radius used. Three very useful devices are now available for checking stylus pressure; the Goldring Pressure Balance, Garrard Pressure Gauge, and Acos Pressure Gauge which are mentioned later in the book.

Dust in the grooves of records is another major factor in record wear and it cannot be emphasized too much that care of records will be handsomely rewarded. Due to the build up of an electrostatic charge, particularly on L.P. records this creates a tendency to attract dust and the use of one of the proprietary brands of "anti-static" cleaning fluids or cleaning pads is to be highly recommended. A very useful device is the "Dust Bug" which is now in very widespread use.



ACOS GP29/2

For Standard and L.P. Records. Black Moulding. (Replaces old GP25). Used by Garrard, Collaro B.S.R. and Decca. Cartridge is now obsolete and **NO LONGER AVAILABLE**. Replacement styli are however still obtainable. Suitable replacement cartridge GP67-2.



ACOS GP29

For Standard and L.P. Records. Black Moulding. Very similar to GP29/2 which supercedes this type but owing to metal side plates it is essential in many cases to use this cartridge for replacement purposes. Used by Garrard, Collaro, B.S.R. and Decca. Cartridge is now obsolete and **NO LONGER AVAILABLE**. Replacement styli are however still available.

No substitute cartridge available.



ACOS HGP33-1

For Standard and L.P. Records. Brown Moulding. Used by B.S.R. and Garrard. Cartridge is now obsolete and **NO LONGER AVAILABLE**. Replacement styli are however still available.

Use GP67-2 Cartridge in lieu.

ACOS
HGP35-1 L.P.ACOS
HGP35-1 STD.

Plug-in type heads for either Standard or L.P. records. Fits only pick-up arm as used on Garrard RC75M, RC80M, RC90, RC111, RC121 autochange units and Type T.A. and 4SPA unit. Crystal unit identical to HGP39-1. Heads now obsolete and **NO LONGER AVAILABLE**. A suitable replacement is Garrard MPM2 Crystal Head.



ACOS HGP37-1

For Standard and L.P. Records. Brown Moulding. Used by B.S.R., Garrard, H.M.V. and Marconi. Now obsolete and **NO LONGER AVAILABLE**. Recommended replacement GP67-2.

Replacement rubber dampers per doz.

Replacement styli still available.

3/- 6d.

SC1 Standard Sapphire
DC1 Standard Diamond
SC2 Microgroove Sapphire
DC2 Microgroove Diamond



Green 4/6
Violet 27/-
Red 4/6
Black 27/-

9d.
4/4
9d.
4/4

SC1 Standard Sapphire
DC1 Standard Diamond
SC2 Microgroove Sapphire
DC2 Microgroove Diamond



Green 4/6
Violet 27/-
Red 4/6
Black 27/-

9d.
4/4
9d.
4/4

SD1 Standard Sapphire
DD1 Standard Diamond
SD2 Microgroove Sapphire
DD2 Microgroove Diamond



Green 4/6
Violet 27/-
Red 4/6
Black 27/-

9d.
4/4
9d.
4/4

SB1 Standard Sapphire
DB1 Standard Diamond
SB2 Microgroove Sapphire
DB2 Microgroove Diamond



Green 4/6
Violet 27/-
Red 4/6
Black 27/-

9d.
4/4
9d.
4/4

SE1 Standard Sapphire
DE1 Standard Diamond
SE2 Microgroove Sapphire
DE2 Microgroove Diamond



Green 4/6
Violet 27/-
Red 4/6
Black 27/-

9d.
4/4
9d.
4/4

ACOS
HGP37-1
COLLARO

Turnover type Head. Can be used on Collaro 3/RC532, AC3/534 etc. Incorporates HGP37-1 Cartridge detailed on page 3. Earlier versions of this head may have used HGP33-1 Cartridge also detailed on page 3. Head **NO LONGER AVAILABLE**.

Suitable replacement cartridges can still be obtained.

See Page 3 for Cartridge Incorporated



ACOS HGP37-1 GARRARD

Turnover type Head. Can be used on Garrard RC80M, RC90, RC111 and T.A. unit. Incorporates HGP37-1 Cartridge detailed on page 3. Earlier versions of this head may have used HGP33-1 also detailed on page 3. This Head is now obsolete but suitable replacement is Garrard MPM2/Crystal.

See Page 3 for Cartridge Incorporated

ACOS HGP39-1 STD.
ACOS HGP39-1 L.P.

Slide on type Pick-up Head available separately for Standard or L.P. Records. Used on Acos GP20 Pick-up. This type superceded old type GP19 Heads. With the use of appropriate adaptor can be used on Decca or Garrard units—See section on Adaptors page 59.

N.B.—HGP39-1 Standard and L.P. Heads are now obsolete and **NO LONGER AVAILABLE**. They are replaced by HGP39-3 as detailed below. The HGP39-3 is in fact the head used in the Black Shadow Pick-up and has an improved performance on HGP39-1.

SB1 Standard Sapphire

Green 4/6 9d.

DB1 Standard Diamond

Violet 27/- 4/4

SB2 Microgroove Sapphire

Red 4/6 9d.

DB2 Microgroove Diamond

Black 27/- 4/4

SBU Dual Purpose Sapphire

White 4/6 9d.

ACOS HGP39-3 BLACK SHADOW
HEAD

This Pick-up Head is identical in appearance to HGP39-1 which it now supercedes and is specially designed for use with the Black Shadow arm.

Tracking weight 4-6 grams. Average output 100mV. Frequency response approximately flat to 18 Kc/s.

It uses the same type stylus as the earlier model:—SB1-SB2. Available separately for Standard and L.P. Records.

With
Diamond
41/4 6/7

With
Sapphire
32/- 5/1

SB1 Standard Sapphire

Green 4/6 9d.

DB1 Standard Diamond

Violet 27/- 4/4

SB2 Microgroove Sapphire

Red 4/6 9d.

DB2 Microgroove Diamond

Black 27/- 4/4

ACOS HGP41-1 COLLARO



ACOS HGP57-1 COLLARO



ACOS HGP45

ACOS GP59-1
ACOS GP59-3
ACOS GP59-5

Plug-in type Heads available separately for either L.P. or Standard Records. Fits Collaro units RC532, AC534, 3RC532, AC3534 etc. In Cream or Walnut. The crystal unit incorporated is identical to HGP39-1. As above but shorter moulding in Walnut only. Can be used on 3RC511, 3RC531, AC3511, AC3531, 3RC521. This Head is now obsolete and **NO LONGER AVAILABLE**. Replacement styli can be obtained.

Plug-in type Heads available separately for either L.P. or Standard Records. Fits Garrard RC80, RC72, RC72A, RC75 and Model M unit. The crystal unit incorporated is identical to HGP39-1. This Head now obsolete and **NO LONGER AVAILABLE**. Suitable substitute Garrard MPM1/Crystal.

This Cartridge has been manufactured in three separate versions. The GP59-1 being designed for High Gain Amplifiers. GP59-3 a medium output type and GP59-5 high output for low gain amplifiers. Earliest versions of GP59-1 and GP59-3 had no identifying marking but later versions of all these types have type number embossed in the moulding. For Standard and L.P. Records. Used by B.S.R. and Garrard Styli are easily replaced but care should be taken to ensure that the stylus flaps or "ears" are fitting over the drive rod. Stylus shaft phosphor bronze. All GP59-Series are now obsolete and **NO LONGER AVAILABLE**. Messrs. ACOS recommend GP67-1 or GP67-2 in lieu. Styli still obtainable. Spare rubber dampings per doz.

3/- 6d.

ACOS HGP55-1 STD.
ACOS HGP55-1 L.P.

Available separately for Standard or L.P. Records. This Head incorporates same crystal as HGP39-1, but has three-pin fitting to enable this to be used on B.J. arm, Decca units and Garrard.

Head now obsolete and **NO LONGER AVAILABLE**. No substitute can be recommended. Styli however still obtainable.

SB1 Standard Sapphire
DB1 Standard Diamond
SB2 Microgroove Sapphire
DB2 Microgroove Diamond



Green 4/6 9d.
Violet 27/- 4/4
Red 4/6 9d.
Black 27/- 4/4

SB1 Standard Sapphire
DB1 Standard Diamond
SB2 Microgroove Sapphire
DB2 Microgroove Diamond



Green 4/6 9d.
Violet 27/- 4/4
Red 4/6 9d.
Black 27/- 4/4

SK1 Standard Sapphire
DK1 Standard Diamond
SK2 Microgroove Sapphire
DK2 Microgroove Diamond



Green 4/6 9d.
Violet 27/- 4/4
Red 4/6 9d.
Black 27/- 4/4

SB1 Standard Sapphire
DB1 Standard Diamond
SB2 Microgroove Sapphire
DB2 Microgroove Diamond



Green 4/6 9d.
Violet 27/- 4/4
Red 4/6 9d.
Black 27/- 4/4



ACOS GP61-1

For Standard and L.P. Records. This is a ceramic cartridge for use in tropical climates and has been seldom used in this country. Stylus shaft aluminium alloy, otherwise identical in appearance to SK1 stylus. Cartridge now obsolete and **NO LONGER AVAILABLE**. Stylus still obtainable.



ACOS HGP63-1

Turnover type pick-up head. This is the long moulding which enables this to be fitted to Garrard RC72, RC72A, RC75A, RC80 and Model M unit. The Crystal cartridge incorporated is the HGP37-1. See page 3.

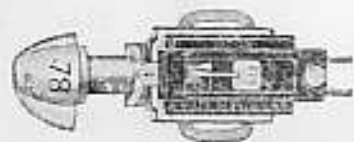
Head now obsolete and **NO LONGER AVAILABLE**. A suitable replacement for this is the Garrard MPM1 Crystal head.



ACOS GP65-1G, GP65-3G

These Cartridges are one of the most recent introductions to the Acos range and are to be found on very many Radiograms and Record Players. Colour of Cartridge case, Cream. GP65-1 is a medium output type and GP65-3 a high output type.

Cartridge now obsolete and **NO LONGER AVAILABLE**. Recommended replacement GP67-1 or GP67-2 High output.



ACOS GP67-1, GP67-2

GP67-1 Monaural Crystal cartridge of medium output with frequency response to 14 Kc/s. Sensitivity 160 mV. at 1cm./sec. Recommended input impedance 2M Ω . Stylus pressure 5-7 grams. GP67-2 A high output type for one valve amplifiers. Sensitivity 50 mV. at 1 cm./sec. Response 30-8,000 c/s. Stylus pressure 8-10 grams.

Two knobs are normally supplied; the half skirted type is used when bracket is not required as in one-piece arms.

With 2
Sapphires
18/- 2/11

With 1
Sapphire
1 Diamond
27/1 4/4



ACOS STEREO CARTRIDGE 71-1

This was one of the earliest Stereo Cartridges introduced and is no longer being introduced into new equipment. For this reason therefore very few of these are in current use. Cosmocoord recommend the return of the Cartridge for Stylus replacement.

Use 71-5 as cartridge replacement. Stylus not obtainable.

SL1 Standard

SL2 Microgroove



Green

4/6

9d.

Red

4/6

9d.

See Page 3 for cartridge
Incorporated

SJ1 Standard Sapphire

DJ1 Standard Diamond

SJ2 Microgroove
Sapphire

DJ2 Microgroove Diamond



Green

4/6

9d.

Green

27/-

4/4

Red

4/6

9d.

Red

27/-

4/4

SJ1 Standard Sapphire

DJ1 Standard Diamond

SJ2 Microgroove
Sapphire

DJ2 Microgroove Diamond



Green

4/6

9d.

Green

27/-

4/4

Red

4/6

9d.

Red

27/-

4/4

S71-1 Stereo Sapphire

D71-1 Stereo Diamond



Red

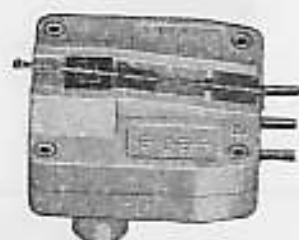
—

—

Red

—

—



A single sided crystal cartridge for stereo and L.P. mono records. A universal fixing plate is normally supplied to allow for fitting to almost any arm. Output 200 mV. at 1.5 cm./sec. Load 1M Ω . Frequency response 40-12,000 c/s. Recommended stylus pressure 3-4 grams.

With
Diamond
Stylus
40/- 6/4

ACOS STEREO CARTRIDGE 71-5

ACOS STEREO CARTRIDGE 73-1A
ACOS STEREO CARTRIDGE 73-2A

A dual purpose Cartridge for Monaural and Stereo use. Incorporates a turner stylus with one point for 78 r.p.m. Monaural Records and the other for Stereo L.P. A high output Cartridge with good separation on Stereo. Output 250 mV. at 1.5 cm./sec. Load 2M. Frequency response 40-12,000 c/s. Stylus pressure 3-4 grams. Three brackets are available, 'A' type for the majority of arms, the 'B' bracket for Garrard one-piece arms RC110-RC120, and the 'C' bracket for American V.M. arms.

The only difference between 73-1A and 73-2A is that the former has slightly lower output. The only visible difference is 73-1 has a forward drive pocket in semi-transparent plastic material whilst 73-2 is a pinkish-grey colour.

73-1A Cartridge obsolete and supplies NO LONGER AVAILABLE. Use 72-2A Cartridge in lieu.

With one Sapphire and one Diamond Stereo/L.P. Stylus. 44/7 7/2

With two Sapphire Styli. 35/- 5/8

*Plastic turnover knobs for all
Cartridge Connection Tags for*



ACOS HI-LIGHT HEAD GP77

These Heads are designed for use with Hi-Light precision pick-up arm. Two Heads are available Crystal type for Monaural L.P. records. Sensitivity 100mV./cm./sec. Load 2M Ω . Frequency response 20-20,000 c/s. $\pm$ 3db. Tracking weight 1 gram.

Ceramic type for Stereo records. Sensitivity 30 mV./cm./sec. Load 2M Ω . Frequency response 20-15,000 c/s. $\pm$ 3 db. Tracking weight 2 grams. A mono head for 78 r.p.m. is also available.

NOTE:— These Heads are intended as complete replacement units the styli themselves not being replaceable.

With
Sapphire
31/- 5/-

With
Diamond
46/6 7/6

S71-3 Stereo Sapphire

D71-3 Stereo Diamond



Red 4/6 9d.

Red 27/- 4/4

SS73 Dual Sapphire Points

DS73 Standard Sapphire
Stereo/L.P. DiamondGreen
78 r.p.m. 8/3 1/4Red
L.P./Stereo 27/- 4/4

ACOS Cartridges Retail 1/- plus Tax 2d. each
ACOS Cartridges Retail 1/- plus Tax 2d. per doz.

Stylus not replaceable.



ACOS GP79 CARTRIDGE

The GP79-2 is a single sided mono L.P. ceramic cartridge of very small dimensions. Frequency response 30-8,000 c/s. Output 250 mV./cm./sec. Recommended pressure 9-10 grams. GP79-5 has an out put of 160 mV. Used in a number of transistorised record players.

12/2 2/-



ACOS GP81-2N STEREO

A Ceramic Turnover type Cartridge for Monaural and Stereo records. Fitted with universal mounting brackets to enable fixing to almost all pick-up arms. Sensitivity 110mV./cm./sec. Average from normal records 330mV. Load 2M Ω 100 p.f. Stylus pressure 4-6 grams.

This early cartridge was withdrawn and is now replaced by GP81-1 as detailed below. Styli are also not available.

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ACOS GP81-1 STEREO
CARTRIDGE

A ceramic cartridge suitable for Mono and Stereo records and replaces GP81-2N now withdrawn. Output 110 mV./sec. Tracking weight 3-6 grams. Load 1M Ω . Frequency response 40-10,000 c/s.

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ACOS GP83-2 STEREO
CARTRIDGE

A turn-over Crystal cartridge for Std. and L.P. records. Output Nom. 250 mV. Load 1M Ω 100 pf. Tracking weight 4-9 grams. Frequency response 50-10Kc/s.

— —

A.D.C. PROFESSIONAL STEREO
CARTRIDGE

A magnetic cartridge of the very highest quality. Frequency response 10-20,000 c/s. Sensitivity 7mV. $\pm$ 2 db. at 5-5 cm./sec. Diamond stylus—tip radius 0.6 mil. Recommended tracking force on top quality arms $\frac{1}{2}$ —1 $\frac{1}{2}$ grams. $\frac{1}{2}$ " standard fixing centres. Load 47K.

410/- 65/9

S79 L.P. Sapphire



— 4/6 9d.

S81A Standard Sapphire

S81A Microgroove/Stereo
SapphireD81A Microgroove/Stereo
Diamond

NOT AVAILABLE

S81 Standard Sapphire

S81 Microgroove/Stereo
SapphireD81 Microgroove/Stereo
Sapphire

— 4/6 9d.

— 4/6 9d.

— 27/- 4/4

S83 Standard Sapphire

S83 Microgroove/Stereo
Sapphire (Identical
to B.S.R. TC8RS)D83 Microgroove/Stereo
Diamond (Identical
to B.S.R. TC8RSD)

— 4/6 9d.

— 4/6 9d.

— 21/6 3/5

R10 Stereo diamond
stylus

— 130/- 20/10

A.D.C.3 UNIVERSAL STEREO
CARTRIDGE

A high quality magnetic cartridge for use with transcription or changer mechanisms. Sensitivity 10 mV. $\pm$ 2 db. at 1,000 c/s. Frequency response 10-20,000 c/s. Stylus tip 0.7 mil. diamond. Load 47K. Tracking force 2.5 grams.

240/- 38/6

A.D.C. POINT FOUR STEREO
CARTRIDGE

A cartridge of the induced magnet type and of revolutionary design. Some points of special attention achieved in this design are the significantly reduced mass of the moving system, the optimum tracking angle of 15°, the extremely low distortion and the high compliance. Output 5.5 mV. Tracking weight 1 to 1½ grams. Frequency response 10-20,000 c/s.

410/- 65/9

BAND and OLUFSEN
STEREODYNE SP1

Frequency response $\pm$ 2.5 dB. from 30 c/s. to 15 Kc/s. (Equalizing after RIAA Standard). Output voltage 7 mV. per channel at 5 cm./sec. at 1,000 c/s. (i.e. 1, 4 v. 1 cm./s.). Channel Separation 20 dB. minimum. D.C. Resistance 1250 Ω . Inductance 200 mH. Recommended Tracking Force 3 grams. Compliance 5×10^{-6} cm./dyne in all directions. Recommended Load 47,000 Ω or higher. Mounting Standard 1/4". Weight 10 grams. Stylus Diamond

91/3 13/9

B.S.R. C1
STEREO
CERAMIC
CARTRIDGE

C1 is a Ceramic cartridge suitable for Monaural or Stereo use. Colour—White. Sensitivity at 1Kc/s. using SXL Decca 2057 1 cm./sec 0-110V. Stylus pressure 2-6 grams according to type of arm. Load 2 meg. Frequency response 40-12,000 c/s.

CIST3
with sapphire
styli

40/- 6/5

CIST4
with
one sapphire
one diamond

60/- 9/8

C1 WITH
RETRACTABLE
CRADLE

This cartridge is also available with specially designed retractable cradle.

with sapphire
styli

60/- 9/-

R3 Stereo diamond
stylus.

— 90/- 15/-

R POINT 4 Microgroove/Stereo
Diamond

— 150/- 24/-

Stereodyne SP1 Diamond
0.5 mil.Stereodyne SP1 Diamond
0.7 mil.Stereodyne SP1 Diamond
1.0 mil.Stereodyne SP1 Diamond
3.0 mil.

Brown 45/- 7/6

Blue 45/- 7/6

Red 45/- 7/6

Green 45/- 7/6

BC1 Mono/Stereo Sapphire

BC1D Mono/Stereo Diamond



8/- 1/4

27/6 4/4



B.S.R. TC4 & TC4A (See notes)

For Standard and L.P. Records. Replaces old types TC2 and TC3. Its use by B.S.R. has now been **DISCONTINUED** and for Monarch autochange unit type GP67-2 and TC8M Cartridge pages 9 and 17, are recommended. For the GU4A Regent unit however, none but the TC4 will fit and to take care of this, a modified type TC4A has been produced.

22/6 3/8

This consists of TC8M Cartridge with modified bracket which is fixed into the GU4A pick-up arm by means of a leaf spring. Therefore for GU4A 3 speed non-auto unit only, ask for TC4A Cartridge.

M253/2 Standard

M252/1 Microgroove



Green

4/6

9d.

Red

4/6

9d.



B.S.R. TC8H

The TC8H High Output "Ful-Fi" Cartridge is very similar in appearance to TC8M but can be identified from its colour. Early cartridges cream, later types orange. It is designed for use with Low Gain Amplifiers and all inexpensive record players. Both Cartridges will fit all usual arms American and European having standard $\frac{1}{4}$ " fixing centres, single centre hole mounting.

22/6 3/8

Sensitivity 800 mV./cm./sec. load 2M Ω 200 p.f. Stylus pressure 7-10 grams.

A TC8H/2 cartridge Black in colour was once produced but was withdrawn from production due to poor compliance. Use TC8H as replacement.

TC8G Standard
Sapphire

TC8R Microgroove
Sapphire

TC8RD Microgroove
Diamond



Green

4/6

9d.

Red

4/6

9d.

Red

21/6

3/5



B.S.R. TC8M

The TC8M Moderate Output "Ful-Fi" Cartridge is a High Fidelity Cartridge designed for use with Moderate and High Fidelity Amplifiers. Can be identified by colour of moulding which is Light Brown. A unique feature is simplicity of replacing Sapphire Stylus.

22/6 3/8

Sensitivity. 335 mV./cm./sec. Load 2M Ω 200 p.f. Stylus pressure 6-9 grams.

TC8G Standard
Sapphire

TC8R Microgroove
Sapphire

TC8RD Microgroove
Diamond



Green

4/6

9d.

Red

4/6

9d.

Red

21/6

3/5

**B.S.R. TC8S STEREO CARTRIDGE**

A high output Crystal Cartridge suitable for Monaural and Stereo reproduction. It is a turnover type with 78 r.p.m. Stylus and compatible Stereo and L.P. Monaural Stylus. Colour of body, Grey.

Sensitivity 240 mV./cm./sec.
Load 2M Ω 200 p.f. Stylus pressure 5-9 grams.

TC8S-M is the current cartridge. White in colour output 220 mV. with improved compliance.

34/- 5/6

Cartridge Retaining Brackets and Knob for Stylus Retaining Screws for Cartridge Connection Tags for

**B.S.R. TC8H/PU30 CARTRIDGE**

The cartridge used in PU30 Pick-up arm—fitted to B.S.R. TU12 and GU7 unit does not have a turnover cradle but is fitted through front hole in pick-up arm. Only identical fitting cartridge can be used. The actual cartridge itself is however identical as regards characteristics as TC8H or M or TC8S Stereo as the case may be. For reordering purposes quote as follows.

TC8M/PU30 22/6 3/8

TC8H/PU30 22/6 3/8

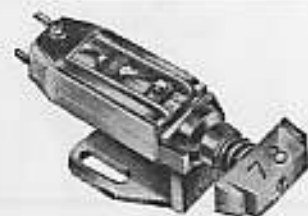
TC8S/PU30 34/- 5/6

PU30 Mo. Replacement bracket and knob—Mono

9d. 2d.

PU30 St. Replacement bracket and knob—Stereo

9d. 2d.

**B.S.R. TC12H**

A high output Monaural Crystal Cartridge for Standard and Microgroove records. Output 1-3 V./cm./sec. Load 1M Ω 100 p.f. Stylus pressure 7-10 grams.

NOW WITHDRAWN.

Use TC8H as replacement.

Styli are still available.

**B.S.R. TC12M**

A medium output monaural Crystal Cartridge for Standard and microgroove records. Output 0-5 V./cm./sec. Load 1M Ω 100 p.f. Stylus pressure 7-10 grams.

NOW WITHDRAWN.

Use TC8M as replacement.

Styli are still available.

TC8G Standard Sapphire



Green

4/6

9d.

TC8RS Microgroove/Stereo Sapphire

Red

4/6

9d.

TC8RSD Microgroove/Stereo Diamond



Red

21/6

3/5

TC8M and TC8H Retail 9d. plus Tax 2d. each

TC8M and TC8H Retail 1/- plus Tax 2d. per doz.

TC8M and TC8H Retail 1/- plus Tax 2d. per doz.

TC8G Standard Sapphire



Green

4/6

9d.

TC8RS Microgroove/Stereo Sapphire

Red

4/6

9d.

TC8RSD Microgroove/Stereo Diamond



Red

21/6

3/5

TC12G Standard Sapphire

Green

4/6

9d.

TC12R Microgroove Sapphire

Red

4/6

9d.

TC12RD Microgroove Diamond



Red

21/6

3/5

TC12G Standard Sapphire

Green

4/6

9d.

TC12R Microgroove Sapphire

Red

4/6

9d.

TC12RD Microgroove Diamond



Red

21/6

3/5



B.S.R. TC12S

A new high output Stereo Crystal Cartridge which supercedes type TC8S. Also for Monaural, Standard and Microgroove records. Output 0.6 V. per channel cm./sec. Load 1M Ω 100 p.f. Stylus pressure 3-8 grams. Grey moulding.

NOW WITHDRAWN.

Use TC8S in lieu.
Styli however are still available.

B.J. HEAD STD.
B.J. HEAD L.P.

Available separately for Standard or L.P. records. This head incorporates the same crystal unit as the Acos HGP39-1 head. Designed for B.J. arm, but will also fit Decca and Garrard units. Obsolete and **NO LONGER AVAILABLE.** No replacement.

B.J. TANGENTIAL
PLUG-IN SHELL

Designed to adapt a wide range of pick-up Cartridges to the B.J. arm, this shell will also plug into other arms using the Standard three pin plug-in fixing.

Obsolete and **NO LONGER AVAILABLE.**

B.J. STEREOGRAPHIC CRYSTAL
PICK-UP HEAD

This Head incorporates the B.J. Stereo Cartridge as detailed on page 23 fitted with Diamond Stylus. Suitable for use with B.J. Tan II or Super 90 Pick-up arms. Head now obsolete and **NO LONGER AVAILABLE.**

TC12G Standard Sapphire

Green 4/6 9d.

TC12RS Stereo/Microgroove
Sapphire

Red 4/6 9d.

TC12RSD Stereo/Microgroove
Diamond

Red 21/6 3/5



SB1 Standard Sapphire

Green 4/6 9d.

SB1 Standard Diamond

Green 27/- 4/4

SB2 Microgroove Sapphire

Red 4/6 9d.

SB2 Microgroove Diamond

Red 26/- 4/4



Some suitable cartridges are:—

ENGLISH: Tannoy, Collaro, Acos, Garrard and Goldring

AMERICAN: Fairchild, General Electric, Pickering,
Electrovoice and Shure.

B.J. Stereo Diamond



Styli not obtainable

**B.J. STEREOPHONIC
CARTRIDGE**

A Crystal Head of two matched elements of low mass and high output coupled to a Diamond Stylus 0.5 mil. by means of a direction sensitive bridge which is so designed to ensure a high degree of separation between the two signals. Cartridge now obsolete and **NO LONGER AVAILABLE.**

**B.J.-ELAC 210 STEREO
CARTRIDGE IN SHELL**

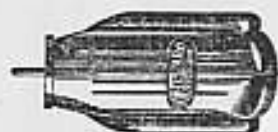
This pick-up Head incorporates the Elac STS210 Variable reluctance Cartridge as detailed on page 47 and is fitted with Diamond Stylus for Monaural L.P. and Stereo reproduction. Head designed for use with B.J. Tan II Pick-up arm or Super 90 arm.

**B.J.-ELAC 310 STEREO
CARTRIDGE IN SHELL**

This pick-up Head is identical in appearance to the one detailed above but incorporates Elac STS310 Variable Reluctance Cartridge detailed on page 47 which has improved performance and is for Stereo use only.

**COLLARO
STANDARD MAGNETIC**

Plug-in type head for 78 r.p.m. Records only. Green base plate. Earlier versions of this Head incorporated a needle armature which can be best described by stating that it was octagonal in shape. Head now obsolete and **NO LONGER AVAILABLE.** Armature and Coil **NO LONGER AVAILABLE.**

**COLLARO
HIGH-FIDELITY MAGNETIC**

Plug-in type Pick-up Head. Green base plate for 78 r.p.m. records only. Made in both high or low impedance. Transformer required for low impedance type. A long playing type, red base plate has also been made in the past.

Heads now obsolete and **NO LONGER AVAILABLE.**

Replacement armatures and coils **NO LONGER AVAILABLE.**

B.J. Stereo Diamond

Styli not obtainable

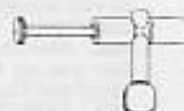
**DM200D Stereo/Microgroove
Diamond**

104/6 16/7

DM300D Stereo Diamond

(As above)

200/- 31/9

Ordinary Needles

Armature

**Miniature Steel Needles
or
Lightweight Stylus**

Armature



**COLLARO
HIGH FIDELITY INSERT**

This High Fidelity Magnetic pick-up insert is an identical replacement for the one used in Collaro RC500 changers which did not have detachable heads. This insert was also used for High Fidelity Magnetic head detailed page 23.

Heads and insert now obsolete and **NO LONGER AVAILABLE.**

— —



COLLARO ORTHODYNAMIC

For Standard and L.P. Records. This is a Low Impedance Magnetic Cartridge, for use with Transformer.

Cartridge now obsolete and **NO LONGER AVAILABLE.**

A suitable substitute would be Studio O head as detailed on page 27 with necessary matching.

— —



**COLLARO ORTHODYNAMIC
HEAD**

This is a dual purpose head for Standard and L.P. Records and has twin point alloy tipped stylus assembly incorporated low impedance orthodynamic magnetic cartridge detailed above and is for use with low impedance transformer. This head has been made in two lengths, type A moulding the shorter, type B the longer one. Illustration shows type B. For use on Collaro arms only. Head and Cartridge obsolete and **NO LONGER AVAILABLE.** Studio O Pick-up head could be used in lieu with necessary alteration to pick-up input.

— —



COLLARO GP27

Plug-in type Head available separately for Standard or L.P. Records. Incorporates Acos, GP27 Cartridge. Green Spot Standard, Red Spot Microgroove Purple Spot Dual Purpose.

Head and replacement cartridges now obsolete and **NO LONGER AVAILABLE.**

— —

Miniature Steel Needles
or
Lightweight Stylus

— — —

O.D. Twin Alloy Tipped



**OBSOLETE
NO LONGER AVAILABLE**

See above for cartridge
Incorporated

SA1 Standard

Green 4/6 9d.

SA2 Microgroove

Red 4/6 9d.

SAU Dual Purpose

White 4/6 9d.





COLLARO 'STUDIO' HEAD

This is a turnover type head for Standard and L.P. Records. 'Studio' crystal cartridge incorporated but this could be either, 'O', 'P', 'T' or Transcription. This will be easily identified from inscription on side of cartridge.

With 'O' 'P' 'T' Cartridge
46/- 7/3
with
Transcription Cartridge
51/- 8/1
5/- 10d.

Pick-up head mouldings only.

COLLARO STUDIO
ORIGINAL SERIES

For Standard and L.P. Records. Four different types have been marketed. Re-order according to inscription on cartridge. This will be either Studio O, Studio P, Studio T or Transcription.

These cartridges which use styli of the screw fixing type are now obsolete and **NO LONGER AVAILABLE**. They are superseded by RONETTE types detailed on pages 91/93 using clip-in stylus. Electrically identical but frequency response improved. Replacement styli are however still available.

Styli for types 'O' and 'P' cartridge have phosphor bronze shaft.

Styli for Transcription Cartridge have aluminium shaft the L.P. one having a series of holes drilled down middle of shaft.

Needle screws for Studio Cartridge. 1d.

Plastic turnover knobs. 6d. 1d.

Solder tags for connection to terminals (per doz.). 6d. 1d.

COLLARO TYPE OS CRYSTAL
CARTRIDGE 5399

A Turnover Cartridge used on some Collaro Record Players and Changers. Cartridge case, Cream in colour and incorporates easily replaceable push-in Styli. Identification plate on side of Cartridge clearly marked 'Studio 560S'. Not to be confused with 'O', 'P', 'T' series. Sensitivity 200 mV. at 1 cm./sec. Load 1M Ω. Frequency response 50-10,000 c/s. Stylus pressure 7-9 grams. Cartridge obsolete and **NO LONGER AVAILABLE**.

Use Ronette DC2840V. Detailed on page 91. Styli however are still available.

See below for cartridge
Incorporated

'O', 'P' and 'T' TYPE

Studio Standard Sapphire

Green 7/- 1/1

Studio L.P. Sapphire

Red 7/- 1/1

Studio Diamond

Red 21/6 3/5



TRANSCRIPTION TYPE



Transcription Standard Sapphire

Green 10/6 1/8

Transcription L.P. Sapphire

Red 10/6 1/8

Transcription L.P. Diamond

Red 21/6 3/5

560S Standard

Green 7/- 1/1

560S Microgroove

Red 7/- 1/1





**COLLARO TX88 TRANSCRIPTION
CARTRIDGE**

The TX88 is a RONETTE Crystal Cartridge of medium output. This Cartridge is of the quality type and with extended frequency range. A novel feature is the simple clip-in method of replacing Styli. This type now supercedes the Studio transcription type. Suitable for mounting in almost all pick-up arms. See page 95 for full details.

35/- 5/7



**COLLARO STEREO CERAMIC
TURNUNDER CARTRIDGE
TYPE 'C'**

A Ceramic Cartridge for both Stereo and Monaural Records. One side with Standard Stylus for 78 r.p.m. Records and the other with compatible tip for L.P. Monaural and Stereo Records. Uses Standard type mounting bracket for mounting in majority of pick-up arms. Suitable for tropical use. Output 60 mV./cm./sec. Load 1M Ω . Pressure 6 grams. Obsolete and NO LONGER AVAILABLE.

— —



**COLLARO RP594 PLUG-IN
HEAD**

A four-socket type pick-up head for use only with RP594 arms. This moulding has housed Ronette 105 Acon 73-1, Ronette DC 284-OV etc.; see appropriate section for cartridge and stylus. Head obsolete and NO LONGER AVAILABLE. Limited quantities may be in the hands of wholesalers.

— —



**COLLEL SK1
STEREO CARTRIDGE**

A Crystal Cartridge with turn-under stylus assembly for Monaural and Stereo records. Is supplied with stylus arm with Standard 78 sapphire and Stereo L.P. sapphire, or Standard 78 sapphire and Stereo L.P. diamond. Sensitivity 140 mV./cm./sec. Load 1M Ω 200 p.f. Frequency range 20-20,000 c/s. Stylus pressure 4-6 grams. Cartridge now obsolete and NO LONGER AVAILABLE. Styli are however still obtainable. Suitable replacement cartridge ELAC KST106.

— —

— —

TX88 Standard Sapphire

Green 12/- 1/11

TX88 Standard Diamond

Green 22/- 3/8

TX88 Microgroove Sapphire

Red 12/- 1/11

TX88 Microgroove Diamond

Red 22/- 3/8



Type C Standard Sapphire

Green 7/- 1/1

Type C Microgroove/Stereo
Sapphire

Red 7/- 1/1



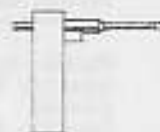
See appropriate section for Cartridge and Stylus.

SK1S with 2 Sapphires

12/- 1/11

SK1SD with 1 Sapphire
Standard
1 Diamond
Stereo/
Microgroove

27/6 4/4



COLLEL SC1
STEREO CARTRIDGE

A Ceramic Cartridge with turn-under Stylus assembly for Monoaural and Stereo records. Available with 2 sapphires or 1 sapphire 1 diamond as SK1.

Sensitivity 120 mV./cm./sec. Load 1M Ω 100 p.f. Frequency range 20-20,000 c/s. Stylus pressure 3-6 grams.

Cartridge now obsolete and **NO LONGER AVAILABLE**. Stylus are however still obtainable.

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— —



DECCA XMS

Plug-in type Head available separately for either Standard or L.P. Records. Brown Head is standard, Red is Microgroove. Seal plate colour identifies impedance. Gold 30 Ω , Red 170 Ω Silver 1,300 Ω , and Green 4,200 Ω

Special version of XMS with Blue seal plate made specially for Kolster-Brand.

Replacement pick-up coils.

41/5 6/7

5/3 10d.



DECCA H

Plug-in type Head for L.P. Records only. This is a Micro-armature Head of the highest quality for use only with first class amplifiers. Colour of body Magenta. Seal plate colour identifies impedance; Gold 90 Ω , Black 1,600 Ω .

Replacement pick-up coils.

41/5 6/7

5/3 10d.

(Illustration as above)

DECCA H MK. II

Similar to type H detailed above with regard to moulding and colour assembly the only difference being that heads produced since 1956 incorporated a redesigned stylus assembly designated 'H' Mk. II Sapphire. Whilst there is a difference in design this entails dimensions of decimal points of an inch and is hardly noticeable as regards physical appearance.

41/5 6/7



DECCA E

Plug-in type Head available separately for Standard or L.P. Records. Brown Head is Standard, Red is Microgroove. Seal plate colour identifies impedance—same as XMS Head, above. For use on Garrard RC80M, RC90, RC111 and T.A. units.

Replacement pick-up coils.

41/5 6/7

5/3 10d.

SC1S with 2 Sapphires

SC1SD with 1 Sapphire
Standard
1 Diamond
Stereo/
Microgroove

— 12/- 1/11

— 27/6 4/4

XMS Standard Sapphire

XMS Standard Diamond

XMS Microgroove
SapphireXMS Microgroove
Diamond

Sapphire Diamond

Red 10/6 1/8

Green 72/9 12/1

White 10/6 1/8

Brown 79/5 12/7

H Microgroove
SapphireH Microgroove
Diamond

Sapphire Diamond

Yellow/
White 10/6 1/8Brown/
Yellow 79/5 12/7"H" Mk. II Micro
groove Sapphire.
(See notes opposite)

Illustration as above

Blue/White 10/6 1/8

XMS Standard Sapphire

XMS Standard Diamond

XMS Microgroove
SapphireXMS Microgroove
Diamond

Sapphire Diamond

Red 10/6 1/8

Green 72/9 12/1

White 10/6 1/8

Brown 79/5 12/7



DECCA D

Plug-in type Head, bayonet fixing
for 78 r.p.m.

Standard Records only.

Used on many earlier Decca
models.

Replacement pick-up coils.

41/5 6/7

5/3 10d.

*Some Decca reproducers have used an Oval Tipped Sapphire. This is identical in
Colour Code.*

Latex Seals for all Decca Heads detailed



DECCA GP27 CHANCERY

Plug-in type Crystal Head.
Available separately for Standard
or L.P. Records. Green name
Plate is Standard, Red Name
Plate Microgroove.

Incorporates ACOS GP27
Cartridge.

Head and Cartridge now obsolete
and **NO LONGER AVAILABLE**.
Styli still obtainable.



DECCA 06960/A Stereo Cartridge

This is an RCA ceramic stereo
cartridge used in high quality
Decca radiograms. Stylus easily
replaceable.

107/3 14/3



DECCA ffs STEREO HEAD MK. I

Designed for use with Decca arm
but can also be used with appro-
priate adaptor on S.M.E.
precision arms. Separate heads
of identical fitting are available
for L.P. and Standard micro-
groove records and these are
detailed below.

STEREO ffs HEAD. Output
1.4 mV./cm./sec. Impedance
3,000 Ω Frequency response
50-15,000 c/s. $\pm$ 1db. Playing
weight 3.5 grams. Cross talk 20
db. at 1 K/s. Diamond stylus
0.0005". Coding D.

235/3 37/9

MICROGROOVE ffs HEAD
Diamond tip radius .001" Coding
X.

171/11 27/7

78 r.p.m. ffs HEAD. Diamond
tip radius .0028" Coding Y.

171/11 27/7

XMS Standard Sapphire



Sapphire

Red 10/6 1/8

appearance to XMS Standard Sapphire but can be identified from BLUE SPOT

Retail 12/9 plus 2/1 Purchase Tax

above. Retail 3/- plus Purchase Tax 6d. doz.

SA1 Standard

Green 4/6 9d.

SA2 Microgroove

Red 4/6 9d.

RCA Dual Stereo/
Microgroove and
Standard Sapphire

— 10/6 1/8

Diamond Sapphire

— 37/6 6/-

It is recommended that heads are returned
to Messrs. Decca for stylus replacement.



DECCA ffs Mk.II STEREO HEAD

Identical as regards fitting and connections as MK1 head. Output 1-2 mV./cm./sec. Impedance 3,000 Ω . Frequency response 40-16,000 c/s. Cross talk better than -20 db. at 1,000 c/s. Diamond stylus 0-0005". Coding M.

Recommended playing weight 3-5 grams.

262/5 42/1



DECCA DERAM CERAMIC CARTRIDGE

This ceramic cartridge is manufactured in a variety of types to cater for both Mono and Stereo requirements. Output 50 mV./cm./sec. (per channel). Frequency response ± 3 db. 40 c/s.-12 Kc/s. Tracking weight 3-5 grams (Changer type) 2-4 grams (Transcription type).

Stereo Transcription Cartridge. White outer shell—red pocket.

81/4 13/2

Stereo Changer Cartridge. Black outer shell—white pocket.

63/4 10/2

Mono L.P. Transcription Cartridge. White outer shell—red pocket.

81/4 13/2

Mono L.P. Changer Cartridge. Black outer shell—white pocket.

63/4 10/2

Mono Std. Changer Cartridge. Black outer shell—white pocket.

49/7 7/11



DECCA BINOFLUID STEREO HEAD

This Head is similar in appearance to the Garrard MPM3, and MPM4 mouldings but is different as regards width. It has been specially designed to house the Ronette BF 40. Bino fluid Stereo Cartridge which fits very snugly without the necessity at fixing brackets etc., Supplied complete with Cartridge and Sapphire Stylus.

Complete head now obsolete and NO LONGER AVAILABLE. Replacement BF40 cartridges and styli obtainable see page 91.



DUAL CDS3/CDS2

A Monaural Crystal Cartridge for Standard and L.P. records.

Manufacturers recommend return of head for stylus replacement.

-0005/6" Stereo Diamond

White 21/6 3/6

-001" Mono Microgroove Diamond

Red 21/6 3/6



-003" Mono Standard Sapphire

Green 4/9 9d.

Mono Microgroove Sapphire

Mono Standard Diamond

SA050 0-5 thou. Stereo Sapphire

Yellow 4/3 8d.

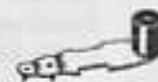


DSA050 0-5 thou. Stereo Diamond

Yellow 76/7 12/2

DN2 Dual Stylus Standard and Microgroove/Sapphire

12/- 1/11





A magnetic Stereo Head which can be used with Mk. I Super ffs Arm, Professional Arm, and Professional (Restyled) Arm. Or with D3 SME adaptor with SME Arms. Incorporates elliptical diamond stylus. Output 1.2 mV./cm./sec. Suitable for amplifiers with sensitivity of 5 mV. Load 50K Ω . Tracking weight 2 grams. Frequency response 20-16,000 c/s.

316/8 50/10

DECCA ffs Mk. III STEREO HEAD**ILLUSTRATION AS DECCA ffs
HEAD.**

A magnetic mono L.P. Head fitted with elliptical diamond stylus. Suitable for use with pick-up arms as detailed for Mk III Stereo Head. Output 1mV./cm./sec. suitable for amplifiers with a sensitivity of 5mV. Load 50K. Tracking weight 2 grams. Frequency response 20-16,000 c/s.

226/3 36/3

**DECCA ffs ELLIPTICAL DIAMOND
MONO L.P. HEAD****DECCA COUNTERWEIGHT
ADJUSTER FOR Mk. I ARMS**

The Mk. I Arm was designed for a tracking weight of 3½ grams. Many of these arms will have a bearing system which would do justice to the lower tracking weight of the new Mk II Stereo and elliptical diamond L.P. mono Head. This device will enable people to check whether their arms would be suitable for these heads.

6/6 1/-

**DECCA CENTRE LOCATOR**

When using the above new heads with elliptical diamonds, correct positioning of the arm to achieve minimum tracking error is of special importance. This device enables users to achieve this.

4/9 9d.

It is recommended that Heads are returned to Messrs. Decca for stylus replacement.

It is recommended that Heads are returned to Messrs. Decca for stylus replacement.



DUAL CDS320/3

A dual purpose Head of German origin for Stereo, L.P. and mono-aural records. Stylus is also suitable for the following cartridges CDS520/3 and CDS310.

EM. 1 CRYSTAL CARTRIDGE
46687A

Case Aluminium Stamping. Used by H.M.V. and Marconi on 2125 Auto-changer.

The separate L.P. and Standard cartridges are now obsolete and **NO LONGER AVAILABLE** and are replaced by a single cartridge with turnover stylus designed to fit inside one of the existing pick-up head mouldings.

A conversion kit CE57502X was at one time available—consisting of 2T Sonotone Cartridge and necessary hardware but unfortunately these also are **NO LONGER AVAILABLE**.

E.M.I. TYPE CP10186 STD.
E.M.I. TYPE CP10186 L.P.

Available separately for Standard or L.P. Records. Incorporates E.M.I. cartridge type 46687A. These heads are used on E.M.I. changer type 2125. Cartridge same for both Standard and L.P. heads, the only difference being in the needle itself. Coded Green for Standard, Red for L.P. See above for cartridge details.

Heads now obsolete and **NO LONGER AVAILABLE**.



E.M.I. NEEDLE ARMATURE 35217B

As used on E.M.I. changer Model 45000. Dimensions 13/16 in. x 1/2 in. Please note difference in size of two types available.

Replacement coils 28811B.

4/3 8d.

2/3 4d.



E.M.I. NEEDLE ARMATURE 34768B

As used in E.M.I. changer Model 3000. Dimensions 1 in. x 1/2 in. See note re size above and when ordering quote exact type number.

7/3 1/2

DN3 Dual Stylus Standard
and Stereo/L.P.
Sapphire



16/7 2/7

Multiplay Standard



Green 7/11 1/3

Multiplay Microgroove

Red 7/11 1/3

Goodman

See above for cartridge
incorporated

Miniature Needles

Miniature Needles

E.M.I. 91110C
TURNOVER CRYSTAL HEAD

Used on H.M.V. Record players and radiograms only. Models 1507/8, 2126 and 2001.

Moulding has been produced in two colours—Maroon and Green.

A conversion kit AE396 consisting of Power Point Cartridge and necessary hardware is available to replace this cartridge. Fixing instructions supplied.

50/- 8/-

E.M.I. 48496 CRYSTAL
CARTRIDGE

A Turnover Type Dual Purpose Cartridge. Used on H.M.V. Record Players and Radiograms only Models 1617B, 1618B, 1619B.

A conversion kit AE396 consisting of Power Point Cartridge and necessary hardware is available to replace this cartridge. Fixing instructions supplied.

50/- 8/-



ER5MB

A Ceramic monaural cartridge which is designed to accommodate either a turn over stylus assembly or alternatively a single L.P. point stylus. Nom output 230 mV. Load 1M. Frequency response 100-10Kc/s. Tracking weight 5 grams. Stylus carrier moulding colour White.

24/- 3/10



ER5MX

A Crystal monaural cartridge which is designed to accommodate either a turn-over stylus assembly or alternatively a single point L.P. stylus. Output Nom. 750 mV. Frequency response 100-10Kc/s. Load 1M. Tracking weight 5 grams. Stylus carrier moulding colour White.

21/- 3/4



ER5SB

A Ceramic Stereo cartridge which is designed to accommodate either a turn-over dual stylus assembly or alternatively a single point Stereo/L.P. stylus. Output Nom. 130 mV. Load 1M. Frequency response 125-10 Kc/s. Tracking weight 5 grams. Stylus carrier moulding colour Black.

35/- 5/7

Double C Microgroove



Red

4/6

9d.

Double C Standard

Green

4/6

9d.

RS3 Standard
Sapphire

Green

7/11

1/3

RS3 Microgroove
Sapphire

Red

7/11

1/3

5M Single Point L.P.
Sapphire

—

7/6

1/2

5M/78 Dual Point L.P.
and Standard Sapphire

—

8/6

1/4

5M/M Dual L.P. Points
Sapphire

—

8/6

1/4

5ST Single Point Stereo/
L.P. Sapphire

—

7/6

1/2

5ST/78 Dual Point Stereo/
L.P. and 78 Sapphire

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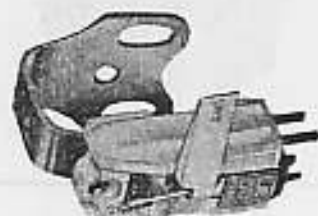
8/6

1/4

**E.R. 58 CRYSTAL CARTRIDGE**

A high output Crystal Cartridge with good frequency response and low distortion content.

NO LONGER AVAILABLE but a suitable replacement would be Ronette DC284-OV.

**E.R. 60 STEREO CARTRIDGE**

A Ceramic Stereo Cartridge with turnunder Stylus assembly suitable for Monaural, L.P. and Standard records also. Output 110 mV./cm./sec. Load 1M Ω 100 p.f. Stylus pressure 5-6 grams. Frequency response 40-12 Kc/s. Separation better than 15 db.

35/- 5/7

**E.R. 701/702 CARTRIDGE**

The 701 is a high output Crystal and 702 a medium output Crystal Cartridge for Monaural records. Both identical in appearance and use same replacement stylus assembly. Stylus pressure 8 grams. Load 1M Ω 100 p.f. Output 701 900mV./cm./sec. Response 100-7 Kc/s. Output 702 700 mV./cm./sec. Response 100-10 Kc/s.

This cartridge has been superseded by ER5MXD. Styli still obtainable.



**ELAC KST9
PERPETUUM EBNER
PE10 and PE1B**

PE10 is a Crystal Monaural Cartridge the PE1B being similar but of ceramic type. Type PE10 replaces PE5 and PE8 which are now obsolete. Type PE10 output 180 mV./cm./sec. Load 1M Ω . Frequency response 20-14,000 c/s.

PE10 With
Sapphire
38/2 6/1

PE1B With
Sapphire
42/11 6/10

ER58 Standard Sapphire

Green 4/3 8d.

ER58 Standard Diamond



Green 60/- 9/7

ER58 Microgroove Sapphire

Red 4/3 8d.

ER58 Microgroove Diamond

Red 60/- 9/7

ER60A Dual Stylus L.P./Stereo
Sapphire and Standard
Sapphire

Blue 6/6 1/1

ER60B Dual Stylus L.P./Stereo
Diamond and L.P./
Stereo Sapphire

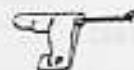
Red 21/- 3/4

ER60C Dual Stylus L.P./Stereo
Diamond and Standard
Sapphire

Green 21/- 3/4

ER701/S Dual Stylus L.P.
Standard Sapphire

— 6/6 1/1

ER701/SD Dual Stylus L.P.
Diamond Standard
Sapphire

— 21/- 3/4

9210 Dual Sapphire Standard
and L.P.

— 15/1 2/6

9211 Sapphire Standard
Diamond L.P.

— 92/8 14/4

HEAD OR CARTRIDGE TYPE NO. AND ILLUSTRATION	ADDITIONAL DETAILS	RETAIL PRICE	ADD PUR- CHASE TAX
 ELAC KST101	As KST100 but single point Stereo only version. Cartridge now obsolete. Replaced by KST103.	—	—
 ELAC KST103	Single point version of KST102 for Stereo/L.P. Record only.	—	—
 ELAC PE180 BST400 KST100	A Ceramic Stereo Cartridge suitable also for monaural, L.P. and Standard records. Output 100mV/cm./sec. Load 1M Ω . Stylus pressure 7-9 grams. BST400 is a ceramic type, KST100 is a crystal type with almost identical characteristics. Stylus reference SNM100—Tip position Standard front. Microgroove rear.	—	—
 ELAC PE182, BST402, KST102	As BST400 but output 80 mV/cm./sec. and stylus pressure 6-8 grams. Stylus reference SNM102 which has tip position as follows Microgroove front Standard rear.	—	—
 ELAC KST104, PE184	A Crystal Cartridge for monaural and Stereo records. Almost identical to KST102. See note above, but stylus tips reversed. Output average 165mV/cm./sec. Load 1M Ω .	—	—
 ELAC MSTID MAGNETIC CARTRIDGE	A single purpose monaural cartridge with interchangeable stylus for 78 or LP records. As this is smaller in size, it will fit majority of Tone Arms. Frequency response 20-20,000 c/s Output 45mV/cm./sec. Tracking weight 5-8 grams.	125/10	22/1 With diamond stylus

REPLACEMENT STYLUS TYPE NO.	ILLUSTRATION	COLOR CODE	RETAIL PRICE	ADD PUR- CHASE TAX
SM101 Single Stylus Microgroove/Stereo		—	6/-	1/-
SM103 Single Stylus Microgroove/Stereo		—	6/-	1/-
SNM100 Dual Stylus Standard and Stereo/L.P. Sapphire		—	16/7	2/7
SNM102 Dual Stylus Standard and L.P./Stereo Sapphire		—	16/7	2/7
SNM104 Dual Stylus Standard and Stereo/L.P. Sapphire		—	16/7	2/7
SN2 Standard Sapphire		Green	15/-	2/8
DM2 Microgroove Diamond		Red	33/4	9/4

ELAC MST2 MAGNETIC
CARTRIDGE

A Dual Purpose Turnover Cartridge with two independent systems, the required section being electrically connected on rotation. Fixing centres are standard to enable fitting to majority of Pick-up Head Shells.

Type MST2D with Sapphire Stylus for Standard and Diamond Stylus for Microgroove.

145/10 25/6

ELAC STEREWIN STS200D
VARIABLE RELUCTANCE
CARTRIDGE

The "Elac" Stereotwin 200 is a variable reluctance magnetic Cartridge which, whilst it is superlative in the stereophonic field, it is also suitable for reproduction of Monaural records.

Obsolete and NO LONGER AVAILABLE. Replaced by STS222.

— —

(Illustration as above)

Identical in appearance to STS200D Stereotwin Cartridge detailed above but engineered to even higher standards.

Obsolete and NO LONGER AVAILABLE. Replaced by STS322.

— —

ELAC STEREOPHONIC STS300D
VARIABLE RELUCTANCE
CARTRIDGEELAC STS210D
ELAC STS310D
Stereo Cartridges

A Stereophonic Cartridge of magnetic type 210 has frequency response of 30-15,000 c/s. +6 -3 db. Output 20mV/cm/sec. Crosstalk better than 20 db. Stylus tip compromise, suitable for L.P. Stereo records.

310 True Stereo Type. Response 30-15,000 c/s. +3 db. Output 15mV/cm/sec. Crosstalk better than 24 db. Load resistance both 37K Ω . Stylus pressure 310 3-6 grams—210 4-7 grams. Obsolete. Replaced by STS222 and STS322 respectively.

— —

— —

SN2 Standard
Sapphire

Green 15/- 2/8

DN2 Standard
Diamond

Green 33/4 9/4

SM2 Microgroove
Sapphire

Red 15/- 2/8

DM2 Microgroove
Diamond

Red 33/4 9/4

DM222 Stereo/Microgroove
Diamond

— 90/- 15/9

DM322 Stereo Diamond



— 172/6 25/2

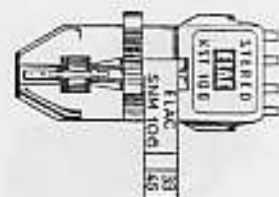
DM222 .7 mil Diamond

— 90/- 15/9

DM322 .52 mil Diamond

— 172/6 25/2

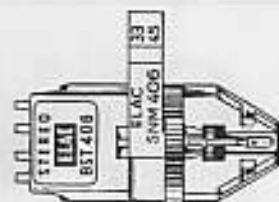




**ELAC KST106 STEREO
CARTRIDGE**

A Stereo Crystal Cartridge with turnunder stylus assembly. Output 150 mV./cm./sec. Load 1M Ω . Tracking weight 5-8 grams. Frequency response 20-18,000c/s. A suitable replacement for Collet SK1.

40/- 14/-



**ELAC BST406 STEREO
CARTRIDGE**

A Ceramic Stereo Cartridge with turnunder stylus assembly. Output 90 mV./cm./sec. Load 1M Ω . Tracking weight 5-9 grams. Frequency response 20-18,000 c/s.

63/4 11/1



**ELAC STS222 STEREO
CARTRIDGE**

A high quality Magnetic Cartridge for Stereo and Mono L.P. records.

Stylus tip diamond. Frequency response 20-20,000 c/s. Output 22mV./cm./sec. Load 51K Ω . Tracking weight 2½ to 7½ grams.

243/4 42/7

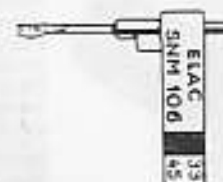
**ILLUSTRATION AS
STS222**

A high quality Magnetic Cartridge specially dimensioned for Stereo records. Stylus tip diamond. Frequency response 20-20,000 c/s. Output 10mV./cm./sec. Load 51K. Tracking weight 1½ to 3 grams.

357/6 62/7

ELAC STS322

**SNM106 (Collet SK1)
with 2 Sapphires**

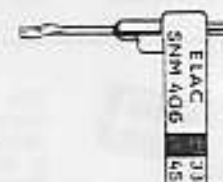


17/6 3/4

**DMSN106 (Collet SK1SD)
with 1 Sapphire Std.
1 Diamond Stereo/Microgroove**

60/- 10/6

**SNM406 (Collet SK1)
with 2 Sapphires**



17/6 3/4

**DMSN406 (Collet SK1SD)
with 1 Sapphire Std.
1 Diamond Stereo/Microgroove**

60/- 10/6

DM222 -7 mil. Diamond



Green

90/- 15/9

**DM222B -7 mil. Diamond
(Hand cut)**

140/- 24/6

DM322 -5 mil. Diamond



Red

172/6 25/2



**GARRARD TYPE A BAYONET
FITTING MAGNETIC HEAD**

The original Magnetic Pick-up Head used on all Garrard Record Changers and Single Records Players, up to the year 1945. Various resistances were used, these being identified from the colour of the band surrounding the Coil.

Brown Band — 8,000 Ω
Red Band — 6,000 Ω
Black Band — 2,000 Ω
Dark Green Band — 700 Ω
Orange Band — Humbucking Coil

Special Coils have also been used and full details of these can be obtained from Garrard Service Dept.

This Head is now obsolete and **NO LONGER AVAILABLE.**



**GARRARD TYPE B BAYONET
FITTING MAGNETIC HEAD**

This Pick-up Head has similar characteristics to the Type A mentioned above, but the shank is longer and the slot therein moved 45° to make the Pick-up Head fit the shorter Pick-up Arm, originally introduced to take the Crystal Pick-up Head which incorporated S8 Rothermel Cartridge. This Head is now obsolete and **NO LONGER AVAILABLE.**



GARRARD S8 CRYSTAL HEAD

This is the original Crystal Pick-up Head used on all Garrard Record Changers and Single Record Players having a special metal Pick-up Arm, up to the year 1945. Rothermel and BTH Cartridges have been used in this Head but are **NO LONGER AVAILABLE.**



**GARRARD TYPE E PICK-UP
INSERT**

This insert was used in the RC10 Record Changer and in the Types E and F Single Record Players having plastic Pick-up Arms, up to the year 1945, then later in the Type S Single Player. Colour codes for Coil resistances are the same as for the original Type A Magnetic Head. Now obsolete and **NO LONGER AVAILABLE.**

Ordinary Needles

Ordinary Needles

Ordinary Needles

Ordinary Needles



This Head incorporated the type E insert, and was used on the RC60, RC65 and RC70 Record Changers and the Type V Single Record Player.

Head now obsolete and **NO LONGER AVAILABLE.**

GARRARD TYPE E PICK-UP HEAD



This Head was fitted with either The Acos GP9 or GP11 Crystal Cartridge and would also accommodate a variety of American Cartridges. It was used on Record Changers RC60, RC65 RC70 and Type V Single Record Player. See page 1 for Cartridges incorporated.

Head now out of production and **NO LONGER AVAILABLE.**

GARRARD TYPE GP9/11 CRYSTAL HEAD



GARRARD ORIGINAL HIGH FIDELITY PICK-UP HEAD

This was used on Record Changers RC60, RC65, RC70 and the Type V Single Record Player. Head obsolete and **NO LONGER AVAILABLE.** No substitute.



"A"

Early H.F. Pick-up Heads having a Stylus assembly as shown in illustration A, should be returned to the Garrard Service Dept., when a replacement Stylus is required. It will automatically be converted to the later type with replaceable Stylus assembly, as shown in illustration B.



"B"

Later type H.F. Pick-up Heads have a replaceable Stylus assembly as per illustration B. Stylus type "High Fidelity" Standard, Silver Base Plate.

Ordinary Needles

See Page 1 for
Cartridge incorporated

See page opposite re
replacement of early
H.F. Stylus.

For later versions as
below.

Garrard Standard
High Fidelity Stylus

Silver
Base Plate 9/1 1/6



Garrard Microgroove
High Fidelity Stylus

Copper
Base Plate 9/1 1/6

GARRARD HIGH-FIDELITY
MAGNETIC 46864

Used on record changers RC60 and type V Single Record Player in conjunction with Type A adaptor, also directly on Record Changers RC65A, RC70A, RC70B and with Type B adaptor on RC72, RC72A, RC75A, RC80 and Type M Single Player.

Plug-in type Pick-up Head. Available separately for either Standard or L.P. Records. Brown Head is Standard, Red Head is Microgroove. The Head is now obsolete and **NO LONGER AVAILABLE**. For replacement Garrard recommend Decca XMS, Coil and Styli are however available.

Replacement Pick-up Coil 4,000 Ω . 9/5 1/6

GARRARD
STANDARD
MAGNETIC
HEAD 47970

Originally used on RC65A, RC70A, RC70B Record changers but in some cases would also be found on other models.

Plug-in type Pick-up Head for Standard Records only.

Head and coil now obsolete and **NO LONGER AVAILABLE**.



GARRARD MINATURE MAGNETIC

Plug-in Type Pick-up Head for Standard Records only.

Replacement Pick-up Coil 3,500 Ω .

Head and coil now obsolete and **NO LONGER AVAILABLE**.

GARRARD MINIATURE
LOW-IMPEDANCE

Plug-in Type Pick-up Head available separately for Standard or L.P. Records. Green Head Standard, Red Head Microgroove. Head **NO LONGER AVAILABLE**.

Garrard Standard
High Fidelity Stylus

Silver
Base Plate 9/1 1/6

Garrard Microgroove
High Fidelity Stylus

Copper
Base Plate 9/1 1/6

Ordinary Needles

Garrard Standard
Miniature Stylus

Green 5/3 10d.

Garrard Standard
Miniature Stylus

Green 5/3 10d.

Garrard Microgroove
Miniature Stylus

Red 5/3 10d.



**GARRARD TURNOVER HEAD
MOULDING TYPE MPM1**

A turnover Pick-up Head for Standard and L.P. Records. This particular head moulding MPM1, which is the long type, is designed to fit the arm used on RC72, RC72A, RC75, RC80 and Model M unit. Will also fit Garrard pick-up arm assembly type PA2. This moulding has been supplied in the past with a wide variety of Crystal or Magnetic cartridges. For these replacements actual type numbers can be identified from illustrations in other sections. If a complete head is required, you would order "MPM1 Crystal Head" or "MPM1 Magnetic Head" according to choice.

Garrard Turnover head moulding only type MPM1.

6/3 1/-

Garrard MPM1 crystal head complete.

23/9 4/-

Garrard MPM1 magnetic head complete. Obsolete and NO LONGER AVAILABLE.

See appropriate
section for
cartridge
incorporated



**GARRARD TURNOVER HEAD
MOULDING TYPE MPM2**

A turnover Pick-up Head for Standard and L.P. Records. This particular head moulding MPM2, which is the short length head, is designed for use with RC75M, RC80M, RC88, RC90, RC98, RC111, RC121, auto change units and 4SPA and "TA" unit. Will also fit Garrard pick-up arm assembly type PA4. Could incorporate a variety of cartridges. Refer to other sections for replacement type number of these. Owing to the introduction of Stereo, this head is now being supplied wired for Stereo.

If a complete head is required, you would order "MPM2 Crystal Head", "MPM2 Magnetic Head" or "MPM2 Stereo Head".

Garrard Turnover head moulding only type MPM2.

6/3 1/-

Garrard Turnover head moulding type MPM2 wired for stereo.

7/3 1/2

Garrard MPM2 GC2 crystal head complete.

23/9 4/-

Garrard MPM2 magnetic head complete. Obsolete and NO LONGER AVAILABLE.

See appropriate
section for
cartridge
incorporated





**GARRARD PICK-UP HEAD
MOULDINGS
MPM3 AND MPM4**

These mouldings are designed to accommodate a variety of Cartridges both Monaural and Stereo and will house the majority of types with standard fixing centres. Both types are identical with the exception of colour. The Cream moulding is the MPM3 type used on RC121/4 Changer, the White moulding type MPM4 used on TPA12 pick-up arm and 4HF unit.

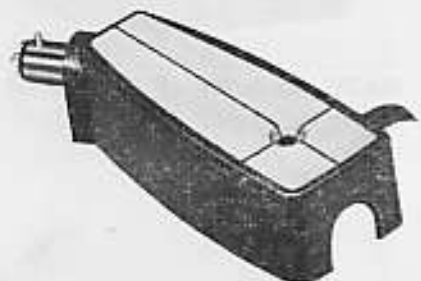
MPM3 or MPM4 moulding only	6/3	1/-
MPM3 or MPM4 moulding only wired for stereo.	7/3	1/2
MPM3 or MPM4 moulding with turnover Monaural Crystal Cartridge.	23/9	4/-
MPM3 or MPM4 moulding with EV26 Stereo cartridge.	35/6	5/10



**GARRARD MPM5 PICK-UP HEAD
MOULDING**

This moulding is designed to accommodate the majority of cartridges. The essential difference between this and the MPM4 and MPM5 is that it has four plug-in pins and is slightly different in appearance.

MPM5/EV26	35/6	5/10
MPM5/GC8	23/9	4/-



**GARRARD MPM6 PICK-UP HEAD
MOULDING**

These mouldings are designed to accommodate a variety of cartridges and are for use on Garrard Autoslim deluxe record changer model AT6.

MPM6 moulding only.	6/3	1/1
MPM6 moulding with GC8 monaural cartridge.	21/6	3/2
MPM6 moulding with EV26 stereo cartridge.	35/6	5/10

See appropriate section
for Cartridge incorporated.

See appropriate section
for Cartridge incorporated.

See appropriate section
for Cartridge incorporated.

GARRARD MAGNETIC
CARTRIDGE TOM1

For Standard and L.P. Records.
This cartridge, now obsolete.
Use type TOM2 as replacement.
Replacement STYLI are however
still obtainable. Used on Garrard
units only.

GARRARD MAGNETIC
CARTRIDGE TOM2

For Standard and L.P. Records.
Supersedes type TOM1. Used
on Garrard units only. Obsolete
and NO LONGER AVAILABLE.

GARRARD GMC5 MOVING COIL
CARTRIDGE

This is a High Fidelity Moving
Coil Turnover Cartridge with
two independent systems and is
a replacement for type MC1
which has been withdrawn.
Colour of moulding, Cream.
Fitted with sapphire stylus 78
r.p.m. Diamond stylus
microgroove.

Obsolete and NO LONGER
AVAILABLE. Replacement
stylus still obtainable.

GARRARD ASTATIC CRYSTAL
CARTRIDGE

For Standard and L.P. Records.
Used on Garrard units only.
Cartridge now obsolete and NO
LONGER AVAILABLE.

Recommended replacement is
GC2 and when used with RC110
and RC120 the special type with
special yoke as detailed on page 63

GARRARD GC2 CRYSTAL
CARTRIDGE

For Standard and L.P. Records.
Used on Garrard units only.
Case is Black moulding.

21/6 3/5

M1J Microgroove
and Standard

Marked
Green Std.
Section
Red
Microgroove
Section

13/6 2/2

M2J Microgroove
and Standard

Marked
Green Std.
Section
Red
Section
Cantilever
for 78 r.p.m.

13/6 2/2

GMC5 Standard
Sapphire

Green 6/- 1/-

GMC5 Microgroove
Diamond

Red 37/6 6/2

A3 Standard



Green 6/5 1/1

A1 Microgroove

Red 6/5 1/1

GC2-3 Standard Sapphire

Green 4/2 8d.

GC2-3D Standard Diamond

Green 19/3 3/2

GC2-1 Microgroove Sapphire

Red 4/2 8d.

GC2-1D Microgroove Diamond

Red 19/3 3/2



**GARRARD GC2 CRYSTAL
CARTRIDGE FOR RC110 CHANGER**

For Standard and L.P. Records. Identical in all respects to GC2 Cartridge detailed above but the harness is not assembled to the cartridge, a special yoke being rivetted to the cartridge instead. This type used exclusively on RC110 and RC120 Changer.

Technical data identical to GC8 though latter type has improved frequency response.

21/6 3/5



**GARRARD GC2/HO CRYSTAL
CARTRIDGE**

This Cartridge has been introduced to provide a Pick-up giving a high voltage output. It is ideal for use with One Valve Amplifiers, and has an output to more than sufficiently load them. Dimensions and appearance are similar to the GC2 Cartridge, except that the case is a Brown moulding.

Output 3-5V 78 r.p.m. 0.8 V 33 1/2 r.p.m. 1,000 c/s. Load 1MΩ. Stylus pressure 10-12 grams.

21/6 3/5



GARRARD GC2/PA

This Cartridge is a high compliance version of the GC2. In addition to the higher compliance it has an increased frequency response with only a slight reduction in voltage output compared with the type GC2. Dimensions and appearance, similar to GC2 except that the case is White moulding.

Cartridge now obsolete and NO LONGER AVAILABLE.

Solder Tags for GC2



**GARRARD GC6 AND GC7
CRYSTAL CARTRIDGES**

This Cartridge is a Single Stylus version of the GC2 Cartridge and is used on the BA1 45 r.p.m. Single Record Playing Unit. Cartridge cemented into Pick-up Arm. Case is White moulding. No difference in physical appearance of the two cartridges but GC7 has a higher output compared with GC6. Both types now obsolete and NO LONGER AVAILABLE.

GC2-3 Standard Sapphire

Green 4/2 8d.

GC2-3D Standard Diamond

Green 19/3 3/2

GC2-1 Microgroove Sapphire

Red 4/2 8d.

GC2-1D Microgroove Diamond

Red 19/3 3/2



GC2-3 Standard Sapphire

Green 4/2 8d.

GC2-3D Standard Diamond

Green 19/3 3/2

GC2-1 Microgroove Sapphire

Red 4/2 8d.

GC2-1D Microgroove Diamond

Red 19/3 3/2



GC2-3 Standard Sapphire

Green 4/2 8d.

GC2-3D Standard Diamond

Green 19/3 3/2

GC2-1 Microgroove Sapphire

Red 4/2 8d.

GC2-1D Microgroove Diamond

Red 19/3 3/2



Cartridges 1/6 doz. plus Tax 3d.

GC2-1 Microgroove Sapphire

Red 4/2 8d.

GC2-1D Microgroove Diamond

Red 19/3 3/2



GARRARD GCE3 AND GCE4
CERAMIC CARTRIDGES

For Standard and L.P. Records. Two separate Ceramic elements are used, one for standard and one for L.P. records. Housed in separate cases assembled side by side the required element being automatically switched into circuit when cartridge is rotated. Both cartridges now withdrawn and no more will be issued not even as replacements.

— —

GC2-3 Standard Sapphire

GC2-3D Standard Diamond

GC2-1 Microgroove Sapphire

GC2-1D Microgroove Diamond



Green 4/2 8d.

Green 19/3 3/2

Red 4/2 8d.

Red 19/3 3/2

GARRARD GC8 CRYSTAL
CARTRIDGE

This type is the latest Monaural Crystal Cartridge introduced by Garrard and whilst type GC2 is still available; virtually supercedes this type. For Standard and L.P. Monaural Records.

Output averages 0.8V 78 r.p.m. and 0.2V 33 1/3 r.p.m. at 1,000 c/s. Load 1MΩ. Recommended stylus pressure 7-10 grams.

Note: Whilst a high compliance version of this Cartridge—GC8/PA has been listed by Garrard, it has now been decided not to produce this, and is **NO LONGER AVAILABLE.**

Cartridge connecting tags per doz.

19/- 3/-

8d. 2d.

GC8/1 Microgroove Sapphire

GC8/1D Microgroove Diamond

GC8/3 Standard Sapphire

GC8/3D Standard Diamond



Red 4/2 8d.

Red 19/3 3/2

Green 4/2 8d.

Green 19/3 3/2



GARRARD GC8/209 CARTRIDGE

This is a type specially designed for use with type 209 changer. This changer has one piece pick-up arm (NOT DETACHABLE HEAD TYPE) with Cartridge mounted through hole in front of arm. Characteristics identical to GC8 cartridge.

19/- 3/-

GC8/1 Microgroove Sapphire

GC8/1D Microgroove Diamond

GC8/3 Standard Sapphire



Red 4/2 8d.

Red 19/3 3/2

Green 4/2 8d.



**GARRARD GCS10 STEREO
CRYSTAL CARTRIDGE
AND GCS10/1, GCS10/2**

A medium output Crystal Cartridge using a single stylus coupled to a pair of elements in such a way as to ensure adequate separation. Will fit into any Garrard pick-up head moulding. Stylus radius is compatible size enabling this cartridge to be used on L.P. Monaural Records. Output: GCS10/1 200mV. GCS10/2 140mV.

Styli supplied complete with carrier.

Stylus Carriers each 1/3 2d.

Cartridge connecting tags per doz. 8d. 1d.

N.B. A later version GCS10/1 is identical as regards the Cartridge itself but employs a modified Stylus Carrier which is shorter in length than the original, and a Stylus Shank which is correspondingly longer. To take care of this all Garrard styli will in future be supplied complete with carrier.

Both cartridges now obsolete and **NO LONGER AVAILABLE.**

Most cartridges of similar output would serve as replacement. Styli are however still available.

GCS10 Microgroove/Stereo
Sapphire

Red 4/2 8d.

GSC10/D Microgroove/Stereo
Diamond

Red 19/3 3/2



**GARRARD GCE12 STEREO
CARTRIDGE**

A Turnover type Ceramic Cartridge for Monaural and Stereo records. Average sensitivity Monaural, L.P. and Stereo 150mV/cm/sec. Load 1MΩ 100 p.f. Stylus pressure 7 grams. Will fit all Garrard mouldings and most other pick-up heads.

Cartridge now obsolete and **NO LONGER AVAILABLE.**

Nearest equivalent EV26.

Styli are still available.

GC8/3 Standard Sapphire

Green 4/2 8d.

GCE12/07 Microgroove/Stereo
Sapphire

Red 4/2 8d.

GCE12/07D Microgroove/Stereo
Diamond

Red 19/3 3/2



**GARRARD EV26 STEREO
CARTRIDGE**

A Turnover type Ceramic Cartridge for Monaural and Stereo records with adequate output, smooth response and high compliance. Sensitivity 110 mV/cm/sec. average. Load 1MΩ. Stylus pressure 7-8 grams.

EV26 Kit (mounting) 3/6 7d.

EV26 Standard Sapphire

Green 4/2 8d.

EV26 Microgroove/Stereo
Sapphire

Red 4/2 8d.

EV26 Microgroove/Stereo
Diamond

Red 19/3 3/2





**GARRARD/RONETTE 105 STEREO
CARTRIDGE**

This is a special version of
RONETTE 105 Stereo Cartridge
see page 93 for characteristics.
Designed with special bracket
to enable fitting to 209 changer
with cartridge mounted through
hole at front of arm.

25/6 4/3

Plastic Knobs for all Garrard

SA-250-ST 2-50 mil. Standard
Sapphire

SA-075-ST 0-75 mil. Stereo/
Microgroove
Sapphire

D1-075ST 0-75 mil. Stereo/
Microgroove
Diamond



Green 4/3 8d.

Blue 4/3 8d.

Blue 21/6 3/2

Cartridges Retail 1/6 plus Tax 3d.



**GATE
MAGNETIC
RECORDING
HEAD 741418**

This Recording Head is used on
all models of PYE "Record
Maker". The Playback Head is
usually a Goldring 500 Cartridge.
See page 71, but in Collaro head
shell.

40/- —

PYE Recording
Stylus 741413



No
Colour 10/6 No
Tax



**GOLDRING MAGNA
CARTRIDGE 200**

For Standard and L.P. Records.
A tropicalised magnetic cartridge.
Used by B.S.R. Will fit all
Pick-up heads having $\frac{1}{2}$ " fixing
centres for cartridge bracket.

Cartridge now obsolete and NO
LONGER AVAILABLE.

S10 Standard Stylus

S10 Microgroove Stylus



Green 5/- 10d.

Red 5/- 10d.



**GOLDRING MAGNETIC
CARTRIDGE 300**

This is a high output Magnetic
Cartridge giving the advantage of
full tropicalisation for use in hot
climates. Two versions of this
Cartridge are available.
300 H.I. which is the High
Impedance type for general use.
300 L.I. which is the special
version designed for use with
transistorised amplifiers giving
an output of 80 microwatts
playing into a transistor load of
1K Ω .

Cartridge now obsolete and NO
LONGER AVAILABLE.
Styli still obtainable.

S41 Standard Sapphire

S41 Microgroove Sapphire



Green 5/- 10d.

Red 5/- 10d.

GOLDRING VARIABLE
RELUCTANCE CARTRIDGE 500

For Standard and L.P. Records.
A High Fidelity Magnetic
Cartridge. Will fit all Pick-up
Heads having $\frac{1}{4}$ " fixing centres
for cartridge bracket.

Type 500 (2 Sapphires)

— —

Type 500 SD (1 Sapphire
Standard-Diamond microgroove)

— —

Type 500 MSD (Sapphire
Standard-Diamond microgroove)
with Mu-Metal Shell.

— —

Cartridge now obsolete and
NO LONGER AVAILABLE.
This is superseded by 580 car-
tridge. Styls are still obtainable.

GOLDRING 580 VARIABLE
RELUCTANCE CARTRIDGE

A high quality variable reluctance
Cartridge almost approaching 600
type in performance but fitted
with two sapphire styls. Complete
with mu-metal screen. Can be
identified from 600 cartridge by
finish of mu-metal screen which
is dull bronze.

84/- 13/8

Output 3-2 mV/cm/sec. Load
68K Ω . Frequency response 20-
18,000 c/s. Tracking weight 7
grams.

GOLDRING VARIABLE
RELUCTANCE CARTRIDGE 600

Similar to 580 Cartridge but
designed specifically around a
Diamond L.P. Stylus. A High
Fidelity cartridge with flat
frequency response from 20 to
20,000 c/s. Sapphire 78 r.p.m.
and Diamond L.P. fitted as
standard.

168/- 27/4

Can be distinguished from 580
by its gold plated finish.

Output 3-2 mV/cm/sec. Load
68K Ω . Frequency response 20-
21,000 c/s. Tracking weight 7
grams.

GOLDRING MAGNETIC STEREO
CARTRIDGE 700

This is a 4-pole balanced armature
Magnetic Cartridge for quality
reproduction of Stereo Records.
Fitted with $\frac{1}{4}$ thou' Diamond
Stylus and designed to track as
low as three grams. Separation
of 20dB. Standard $\frac{1}{4}$ " fixing
centres suitable for mounting in
all types of pick-up arm.

— —

Obsolete and **NO LONGER
AVAILABLE.** But styls are still
obtainable. Replaced by type
700/Mk. II detailed on page 73.

S20 Standard Sapphire

Green 6/6 1/1

S20D Standard Diamond

Green 75/- 12/2

S20 Microgroove Sapphire

Red 6/6 1/1

S20D Microgroove Diamond

Red 75/- 12/2



S40 Standard Sapphire

Green 10/6 1/9

S40 Microgroove Sapphire

Red 10/6 1/9



S40 Standard Sapphire

Green 10/6 1/9

S40D Microgroove Diamond

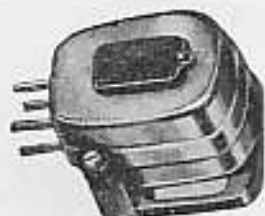
Red 75/- 12/2



D50 Stereo Diamond Stylus

75/- 12/2





**GOLDRING 700 Mk. II
STEREO CARTRIDGE**

A magnetic variable reluctance type of high quality with diamond stylus for stereo records. Frequency response 40-12 Kc/s. separation 15 dB. Output 3mV./cm./sec. Load 50K Ω . Stylus pressure 3-4 grams.

147/- 23/8

Manufacturers recommend return of Cartridge for Stylus replacement.



**GOLDRING MX1 CRYSTAL
CARTRIDGE**

A Turnover Monaural Crystal Cartridge of medium output designed as a universal replacement for most crystal cartridges. Output 200mV./cm./sec. Frequency response 30-14 Kc/s. Playing weight 5-7 grams. Load 2M Ω .

Cartridge now obsolete and NO LONGER AVAILABLE.

Styli still obtainable.



**MX2L MONAURAL CRYSTAL
CARTRIDGE**

Frequency response 30-14,000 c/s. Output 260 mV. Fixing centres $\frac{1}{2}$ ". Playing weight 4-7 grams. Load impedance 1M Ω . Identifying colour grey.

21/- 3/5



**MX2M MONAURAL CRYSTAL
CARTRIDGE**

Frequency response 30-14,000 c/s. Output 500 mV. Fixing centres $\frac{1}{2}$ ". Playing weight 5-7 grams. Load impedance 1M Ω . Identifying colour black.

21/- 3/5



**MX2H MONAURAL CRYSTAL
CARTRIDGE**

Frequency response 30-10,000 c/s. Output 930 mV. Fixing centres $\frac{1}{2}$ ". Playing weight 6-9 grams. Load impedance 1M Ω . Identifying colour cream.

21/- 3/5

S60 Standard Sapphire

Green

5/-

10d.

S60 Microgroove Sapphire

Red

5/-

10d.

D60 Microgroove Diamond

Red

21/6

3/6

S60 Standard Sapphire

Green

5/-

10d.

S60LP Microgroove
Sapphire

Red

5/-

10d.

D60LP Microgroove
Diamond

Red

21/6

3/6

S60 Standard Sapphire

Green

5/-

10d.

S60LP Microgroove
Sapphire

Red

5/-

10d.

D60LP Microgroove
Diamond

Red

21/6

3/6

S60 Standard Sapphire

Green

5/-

10d.

S60LP Microgroove
Sapphire

Red

5/-

10d.

D60LP Microgroove
Diamond

Red

21/6

3/6



GOLDRING CM50 CARTRIDGE

A Ceramic Cartridge which can be used in even the most tropical climates. For Monaural records. Will fit most pick-up arms, $\frac{1}{2}$ " mounting centres. Output 120 mV./cm./sec. Load 1M Ω 100 p.f. Frequency response 30-14,000 c/s. Stylus pressure 6-8 grams. Cartridge now obsolete and **NO LONGER AVAILABLE**. Styli still obtainable.

— —

CM60 MONAURAL CERAMIC
CARTRIDGE

Frequency response 30-12,000 c/s. Output 200 mV. Fixing centres $\frac{1}{2}$ ". Playing weight 5-7 grams. Load impedance 1-2M Ω .

25/- 4/1

GOLDRING SX10 STEREO
CARTRIDGE

A Turnover Stereo Crystal Cartridge with good frequency response and designed as a universal replacement for most stereo crystal cartridges. Output per channel 150mV./cm./sec. Load 2M Ω . Frequency response 30-14 Kc/s. Tracking weight 3-4 grams. Cartridge in original form obsolete and **NO LONGER AVAILABLE**.

— —

SX10L STEREO/MONO
CRYSTAL CARTRIDGE

Frequency response 30-14,000 c/s. Output 170 mV. per channel. Fixing centres $\frac{1}{2}$ ". Playing weight 4-6 grams. Load impedance 1M Ω . Identifying colour Black.

28/6 4/8

SX10M STEREO/MONO
CRYSTAL CARTRIDGE

Frequency response 30-14,000 c/s. Output 270 mV. Fixing centres $\frac{1}{2}$ ". Playing weight 4-6 grams. Load impedance 1M Ω . Identifying colour Grey.

28/6 4/8

S60 Standard Sapphire

Green

5/-

10d.

S60 Microgroove Sapphire

Red

5/-

10d.

D60 Microgroove Diamond

Red

21/6

3/6



S83 Standard Sapphire

Green

5/-

10d.

S83LP Microgroove
Sapphire

Red

5/-

10d.

D83LP Microgroove
Diamond

Red

21/6

3/6



S61 Standard Sapphire

Green

5/-

10d.

S61 Microgroove/Stereo
Sapphire

Red

5/-

10d.

S61D Microgroove /Stereo
Diamond

Red

21/6

3/6



S60 Standard Sapphire

Green

5/-

10d.

S60SR Microgroove Stereo
Sapphire

Red

5/-

10d.

D60SR Microgroove Stereo
Diamond

Red

21/6

3/6



S60 Standard Sapphire

Green

5/-

10d.

S60SR Microgroove Stereo
Sapphire

Red

5/-

10d.

D60SR Microgroove Stereo
Diamond

Red

21/6

3/6



GOLDRING CS80 STEREO
CARTRIDGE

A Stereo cartridge of ceramic type. Standard $\frac{1}{2}$ " fixing centres can be accommodated in most pick-up arms. Turnover type for Monaural, Standard and L.P. records also. Output 200mV./cm./sec. Load 1M Ω 100 p.f. Frequency response 30-14,000c/s. Stylus pressure 3-4 grams.

With
Sapphires
35/- 5/8

With 1
Diamond
51/6 8/5

CS90 STEREO CERAMIC
CARTRIDGE

A cartridge designed to give the highest possible quality at a reasonable price. Fits all arms with standard fixing centres. Playing weight $\frac{1}{2}$ to 3 grams. Frequency response 30-20,000 c/s. Output per channel 50 mV. at 1Kc./cm. sec. Characteristics of frequency response and separation equal to that of best magnetic cartridge.

84/- 13/8

PICKERING-GOLDRING
380A STEREO CARTRIDGE

A high quality Magnetic Cartridge fitted with Diamond Stylus. Hermetically sealed and fully encased in mu-metal. Compatible for Stereo and Monaural records. Frequency response 20-15,000 c/s. $\pm$ 2db. Separation—35db. Output 15mV. per channel. Stylus pressure 4-7 grams.

252/- 40/11

PICKERING-GOLDRING
381A STEREO CARTRIDGE

A "Calibration Standard" Magnetic Stereo Cartridge. For recording channel calibration and record evaluation by engineers and critics. 381 is an ultra linear professional pick-up and provides precise record measurement data. Frequency response $\pm$ 1db. 20-10 Kc/s. $\pm$ 2db. 10 Kc/s.-15 Kc/s. Separation—35 db. Output 10mV. per channel. Stylus pressure 2-3 grams. Cartridge NO LONGER AVAILABLE

— —



LEAK DYNAMIC PICK-UP HEAD

Available separately for Standard or L.P. Records. This is a low impedance Pick-up for use with matching transformer, see page 113. Can only be used on Leak Pick-up Arm. Diamond styli only are fitted.

See page 116 for fuller details.

115/- 18/3

S81 Standard Sapphire

Green

5/-

10d.

S81SR Microgroove/Stereo
Sapphire

Red

5/-

10d.

D81SR Microgroove/Stereo
Diamond

Red

21/6

3/6

D90SR Stereo Diamond

Red

27/6

4/6

380 Microgroove/Stereo
Diamond

White

—

—

DS1/SR

—

21/6

3/5

381 Stereo Diamond

Black

—

—

Dynamic Std. Diamond

Green

75/-

12/2

Dynamic L.P. Diamond

Red

75/-

12/2

Messrs. Leak recommend the return of the head when requiring replacement stylus.

An exchange scheme is in operation which offers "per return" replacement.

**MAGNAVOX EV26**

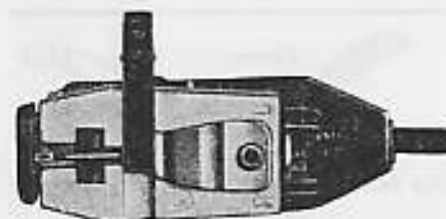
A Ceramic Stereo Cartridge used in Magnavox record playing equipment. Colour grey. Due to special fixing bracket only direct replacement should be used.

90/- 15/-**MAGNAVOX EUPHONIC BK**

A Ceramic Stereo Cartridge. Output 100 mV. Frequency response 40-12,000 c/s., tracking weight 3 grams, when used in Magnavox record playing equipment. Due to special fixing bracket only direct replacement should be used. Colour body black.

63/2 10/6**MAGNAVOX EUPHONIC GR**

A Ceramic Stereo Cartridge. Characteristics similar to BK type. Due to special fixing bracket only direct replacement should be used.

63/2 10/6**MAGNAVOX EV WH**

A Ceramic Stereo Cartridge with turn-under stylus assembly. Output 100 mV., frequency response 40-12,000 c/s., tracking weight 3 grams, when used with Magnavox record playing equipment. Due to special fixing bracket only direct replacement should be used.

73/- 7/2

Magnavox EV26 Standard
Sapphire

Magnavox EV26 Microgroove/
Stereo Diamond

**11/3 1/10****67/6 11/3**

Magnavox Bk. Standard
Sapphire

Magnavox Bk. Microgroove/
Stereo Diamond

**12/8 2/1****23/6 3/11**

Magnavox GR Standard
Sapphire

Magnavox GR Microgroove/
Stereo Diamond

**12/8 2/1****52/6 8/9**

Magnavox W.H. Dual Standard
Sapphire Diamond
Microgroove/Stereo

**32/- 5/4**



Ortofon Stereo Moving Coil Cartridge is designed for professional use, having extremely high compliance and low inertia of the stylus armature. Cartridge fitted with Diamond Stylus. Channel separation 20-25 db. Frequency response 20-20,000 c/s. Impedance 2 Ω . Output 0.05 mV./cm./sec. Stylus pressure 2 grams. Ortofon cartridge also available in THORENS shell for BT125 Pick-up arm. TD135 unit. specify SPU/TT.

360/- 57/9

ORTOFON SPU-G STEREO
HEAD**TYPE SPU/GT**

This Cartridge is identical to type SPU but incorporates the novel feature of an inbuilt matching transformer to suit input of all amplifiers.

400/- 64/2

TYPE SPU/GTE

As above but incorporates special elliptical diamond stylus. Both types are available to special order fitted to S.M.E. ultra light shell.

500/- 80/3

ORTOFON TYPE C HEAD

A professional Moving Coil Cartridge for microgroove Monaural records. Obvious partner to type SPU. Output 0.3 mV./cm./sec. Impedance 2 Ω . Suitable matching transformers for Ortofon range are available. Stylus pressure 3 grams.

280/- 44/10



PERPETUUM EBNER PE12

A wide range dual purpose Monaural Crystal Cartridge. This cartridge is also similar to type PE126 and uses same type Stylus. Output 180mV./cm./sec. Load 1M Ω . Frequency response 20-14,000 c/s.

38/2 6/1



PERPETUUM EBNER PE7000

A Magnetic Turnover type Monaural Cartridge. Frequency response 20-20,000 c/s. $\pm$ 3 db. Output 12mV./cm./sec. Load 100K Ω 500 p.f. Stylus assembly also suitable for P5000 and PE3000 Cartridges.

90/1 14/4

Distributors operate a unique system of Head replacement. Heads either faulty or for Stylus replacement are to be returned when a replacement Head will be forwarded per return.

As above.

9218 Dual Sapphire
Standard and L.P.

13/- 2/1

9220 Dual Sapphire Standard
Diamond Microgroove

92/8 14/10



9250 Standard Sapphire

9251 Microgroove

9253 Microgroove Diamond

Green 10/10 1/9

Red 10/10 1/9

Black 93/6 14/11



AG3010, AG3012, AG3013, AG3025
PHILIPS AND STELLA HEADS

(N.B.—See Notes)

These Pick-up heads are as used on Philips and Stella radiograms and players.

AG3010 Dual purpose type for Standard and L.P. Records.

Head now obsolete and **NO LONGER AVAILABLE**. Use AG3016 dual purpose type in lieu which is a plug-in replacement.

Colour coded Red spot micro-groove. Green spot standard.

AG3012 for Standard Records only. Colour coded Green spot.

Individual heads for L.P. and Standard Records are **NO LONGER AVAILABLE** and must be replaced by dual purpose type AG3016 which is a plug-in replacement. Sapphire styli are however, still available.

AG3013 for L.P. Records only. Colour coded Red spot.

Individual heads for L.P. and Standard Records are **NO LONGER AVAILABLE** and must be replaced by dual purpose type AG3016 which is a plug-in replacement. Sapphire styli are however, still available.

AG3025 for L.P. Records only. This head has a diamond stylus. Colour coded Red with decorative gold fluting.

This Head now obsolete and **NO LONGER AVAILABLE**. Recommended replacement is AG3060 stereo head which has compatible tip stylus—also suitable for Monaural L.P. records.

AG3016 PHILIPS AND STELLA
HEAD

This latest Head is now being used in new equipment and supercedes types AG3010, AG3012 and AG3013 which are now obsolete and **NO LONGER AVAILABLE**. Output 100mV./cm./sec. Load 220K-470K Ω . Stylus pressure 7-10 grams.

21/6 3/6

AG3019 PHILIPS AND STELLA
HEAD

This Head has the same characteristics as type AG3016 and is same in outward appearance. The difference is that this head includes a built-in load resistor and a shorting link which makes it more suitable in some applications where either a Monaural or Stereo Head may be used. Now obsolete and **NO LONGER AVAILABLE**. When using AG3016 in lieu add suitable load resistor and link if required.

946/S08 St. Stylus } for
946/S09 L.P. Stylus } AG3010
Head

Green } 4/7 9d.
Red }

946/S05 St. Stylus
for AG3012 Head



Green 4/7 9d.

946/S06 L.P. Stylus
for AG3013 Head

Red 4/7 9d.

Philips advise that it is not their intention to market replacement diamond styli for AG3025 head.

946/S32 Standard Sapphire

Green 4/7 9d.

946/S33 Microgroove Sapphire



Red 4/7 9d.

HY14013 Microgroove Diamond

25/10 4/2

946/S32 Standard Sapphire



Green 4/7 9d.

946/S33 Microgroove Sapphire

Red 4/7 9d.



**PHILIPS MAGNETODYNAMIC
PICK-UP HEAD AG3021**

A Pick-up Head of advanced design using moving magnet system. Stylus cantilever is fixed to Ferrodure Rod. Assembly is easily replaceable but manufacturers recommend that Heads be sent to Philips dealers for replacements to be fitted. This Head is designed for use with special Pick-up Arm, Model NG5400, but fitting is same as AG3012 and this latter type could be used on this arm for 78 r.p.m. Please note AG3021 Head is only available for L.P. and is supplied with Diamond Stylus only. Colour code Red Dot.

126/6 20/6



**AG3063 PHILIPS AND STELLA
STEREO HEAD**

This is the first Crystal Pick-up Head for Stereo reproduction introduced by Philips and is identical in shape and size to AG3016 though being a Stereo type has different armature system and Sapphire Stylus.

Output 120mV./cm./sec. load 470K. Frequency response 30-12,000 c/s. Stylus pressure 4-6 grams.

28/- 4/6



**AG3060 PHILIPS AND STELLA
STEREO HEAD**

This Head is identical in all respects to AG3063 but with Diamond Stylus and base plate is coloured gold.

46/6 7/6



AG3066 PHILIPS HEAD

A Crystal Head for 78 r.p.m. records only. Sensitivity 120mV./cm./sec. Load 470K. Stylus pressure 4-6 grams.

17/3 2/9



**PHILIPS AG3301/AG3304 STEREO
HEADS**

A Crystal Head for Monaural and Stereo records. Sensitivity 120 mV./cm./sec. Load 470K. Frequency response 30-12,000 c/s. Stylus pressure 4-6 grams. When using this Head in place of AG3063/66 check and adjust playing weight. AG3301/3304 are identical as regards characteristics but AG3301 has 2 sapphire stylus. AG3304 having one sapphire 78 r.p.m.—diamond Stereo/L.P.

AG3301

28/- 4/6

AG3304

54/3 8/9

946/D13

Red 33/- 5/4

946/S46 Stereo
Sapphire



4/7 9d.

946/D42



28/2 4/6

946/S37 Standard
Sapphire



Green 4/7 9d.

946/S49 Standard
Sapphire



Green 4/7 9d.

946/S46 Microgroove/
Stereo
Sapphire



Red 4/7 9d.

946/D42 Microgroove/
Stereo
Diamond



Red 28/2 4/6



**PHILIPS AG3302/3305 STEREO
HEADS**
"MALE ENTRY"

Identical in all respects electrically to AG3301/AG3304, except that these have plug type fitting to pick-up arm.

AG3302 has two sapphire styli. AG3305 has one sapphire 78 r.p.m. and Diamond stylus for Stereo/L.P.

Both heads are obsolete and **NO LONGER AVAILABLE**. AG3302 is replaced by AG3306. AG3305 is replaced by AG3310. Replacement styli are still available.



**PHILIPS AG3306/3310 STEREO
HEADS**
"MALE ENTRY"

A Crystal head for Monaural and Stereo records. Sensitivity 70 mV./cm./sec. Load 470K. Frequency response 30-16 Kc/s. Stylus pressure 3-6 grams.

Both heads identical as regards characteristics.

AG3306 has two sapphire styli. AG3310 has one sapphire 78 r.p.m. and diamond stylus for Stereo/L.P.

AG3306

26/4 4/3

AG3310

54/3 8/9



PHILIPS AG3113 L.P. HEAD

A Crystal head for E.P. records designed for use with Model 9123 POST-A-GRAM only—and has one E.P. sapphire point.

OBSELETE AND NO LONGER AVAILABLE. Is replaced by AG3229 which has two L.P. sapphires.

As AG3113

PHILIPS AG3114 L.P. HEAD

A Crystal head for L.P. records designed for use with AG2101/24 AutoMignon car record player **OBSELETE AND NO LONGER AVAILABLE** is replaced by AG3229.



PHILIPS AG3229 L.P. HEAD

A Crystal head for L.P. records with two L.P. sapphires. Sensitivity 90 mV./cm./sec. Frequency response 40-10 Kc/s. Load 1M Ω . Playing weight 5-8 grams.

See page 89 for suitable EV replacement.

31/2 5/-

946/S49 Standard Sapphire



4/7 9d.

946/S46 Microgroove/Stereo Sapphire

4/7 9d.

946/D42 Microgroove/Stereo Diamond



28/2 4/6

946/SS50 Dual Point Sapphires



9/6 1/6

946/DS51 Dual Point/Sapphire Standard Diamond L.P./Stereo

33/- 5/4

Stylus not available.

Stylus not available

Stylus is not replaceable but Power Point Cartridge 51/1 would be a suitable replacement. See Page 83.



**PHILIPS AG3401 MAGNETO
DYNAMIC STEREO HEAD**

A Magnetic head of high quality with a frequency response of 20-20,000 c/s. Output 2mV./cm./sec. Load 2×68K. Tracking weight 3.5 grams. Fitted with diamond stylus. 3 pole socket connection.

162/9 26/3



**PHILIPS AG3402 MAGNETO
DYNAMIC STEREO HEAD**

Identical in all respects to AG3401 but has 5 pole plug in connection.

162/9 26/3



**POWER POINT CERAMIC
CARTRIDGE**

This is a High Compliance Ceramic Cartridge in nylon case less than 1" in diameter by 1" long. 4 different types are available with various Stylus combinations and Styli are connected directly to Ceramic Element and are not replaceable but exchange of Cartridge can be effected in a matter of seconds. (Illustration twice actual size). Output 240 mV./cm./sec. Load 1MΩ 100 p.f. Stylus pressure 6-8 grams. Frequency response uniform 40-10 Kc/s. Mounting Brackets to enable this Cartridge to be fitted to Standard Pick-up Arms.

With
Sapphire
14/- 2/3

With
Diamond
Type 56D
35/- 5/7

4/8 9d.

Model	Description	Power Point Colour	Sapphire Tip
51-1	L.P. Double-Tip POWER POINT	Red	-001—001
53-3	Standard Double-Tip POWER POINT	Black	-003—003
56	Double-Tip L.P.-Standard POWER POINT	Blue	-001—003
56D	Double-Tip L.P. diamond Sapphire 78	Yellow	

A special Power Point produced for Philips colour **BROWN** can be replaced by 51-1 detailed above.



PYE SMT29

A Crystal Cartridge used by Pye in certain Record Players.

N.B.—This cartridge is obsolete and **NO LONGER AVAILABLE**. This recommended replacement is ACOS 73-1 which has similar characteristics.

946/D10 Microgroove/Stereo
Diamond



Red

33/-

5/4

946/D10 Microgroove/Stereo
Diamond

As above

Red

33/-

5/4

Stylus not replaceable
See opposite page for
required Ceramic
Element.

SMT29 Standard Sapphire

Green

8/6

1/4

SMT29 Stereo Microgroove/
Sapphire

Red

8/6

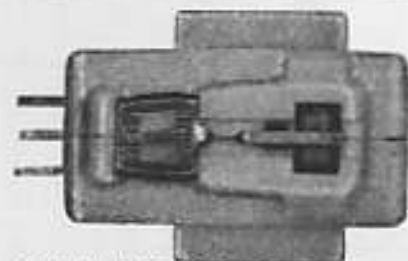
1/4



R.C.A. 85640 VARIABLE
RELUCTANCE ORTHOPHONIC
CARTRIDGE

This High Fidelity 8 pole Variable Reluctance Cartridge is fitted to all Pick-ups in the new Orthophonic Range. Movement completely sealed in clear plastic encapsulation. Very simple method of Stylus change. Many variations of Styli are available both single and dual as per full details on opposite page. Price of Cartridge is less Stylus.

Production of this cartridge has now been discontinued but limited stocks of stylus are available with exception of 85642 and 85655.



RONETTE BINOFLUID BF-40

A single-sided crystal cartridge, also suitable for the reproduction of Monaural L.P. records. Excellent frequency response. Sensitivity 180 mV./cm./sec. Load 1MΩ 100 p.f. Stylus pressure 5-7 grams. Frequency response 30-12,000 c/s.

50/- 7/11



RONETTE DC-284-OV
(COLLARO STUDIO 'O')

Monaural Crystal Cartridge of Turnover type for Standard and L.P. records. Designed for use with average amplifier or radio receiver. Sensitivity 230mV./cm./sec. Load 1MΩ 100 p.f. Stylus pressure 6-10 grams. Frequency response 30-10,000 c/s. Extensively used by Collaro. Stylus easily replaceable—clip-on variety.

30/- 4/9

COLOUR CODE AND TYPE REFERENCE

Fig. No.	Stylus 1	Stylus 2	Colour 1	Colour 2	Colour 3	Colour 4	Type No.
A	Micro Diamond	None	White Spot on gold	Red	—	—	85659
A	Micro Sapphire	None	Self (silver)	Red	—	—	85657
A	78 Diamond	None	White Spot on gold	Green	—	—	85658
A	78 Sapphire	None	Self (silver)	Green	—	—	85656
B	78 Sapphire	Micro Sapphire	Self (silver)	Green	Red	Self (silver)	85641
B	78 Sapphire	Micro Diamond	Self (silver)	Green	Red	White Spot on gold	85642
B	78 Diamond	Micro Diamond	White Spot on gold	Green	Red	White Spot on gold	85655

FIG. A.



FIG. B.



Single Purpose Diamond Stylus Microgroove	...	...	85659	40/-	6/4
Single Purpose Sapphire Stylus Microgroove	...	...	85657	20/-	3/2
Single Purpose Diamond Stylus 78 r.p.m.	...	...	85658	40/-	6/4
Single Purpose Sapphire Stylus 78 r.p.m.	...	...	85656	20/7	3/2
Dual Purpose Stylus. Sapphire 78 r.p.m. & Microgroove	...	...	85641	28/7	6/4
Dual Purpose Stylus. Sapphire 78 r.p.m. Diamond Microgroove	...	...	85642	48/4	7/8
Dual Purpose Stylus Diamond, 78 r.p.m. Diamond Microgroove	...	...	85655	68/2	10/10

SA-050ST 0.5 mil. Stereo Sapphire

D1-1050ST 0.5 mil. Stereo Diamond

SA-075ST 0.75 mil. Stereo / Microgroove Sapphire

D1-075ST 0.75 mil. Stereo / Microgroove Diamond



Yellow 4/3 8d.

Yellow 21/6 3/5

Blue 4/3 8d.

Blue 21/6 3/5

SA-250 2.5 mil. Standard Sapphire

SA-100 1.0 mil. Microgroove Sapphire

DA-100 1.0 mil. Microgroove Diamond



Green 4/3 8d.

Red 4/3 8d.

Red 21/6 3/5



**RONETTE DC-248-P
(COLLARO STUDIO 'P')**

Generally as DC-284-OV but designed for use with better quality amplifiers. Sensitivity 150mV./cm./sec. Load 1M Ω 100 p.f. Frequency response 30-12,000 c/s. Stylus pressure 4-8 grams.

30/- 4/9



**RONETTE DC-284-T
(COLLARO STUDIO 'T')**

Generally as DC-284-OV but high output variety with high frequency cut-off; for use with simple two valve amplifiers. Sensitivity 600 mV./cm./sec. Load 1M Ω 100 p.f. Stylus pressure 6-10 grams. Frequency response 30-8,000 c/s.

30/- 4/9



RONETTE DC-395

Generally as DC-284-OV but with higher output than DC-284-T; designed for use with one valve amplifiers. Sensitivity 1,000mV./cm./sec. Load 1M Ω 100 p.f. Stylus pressure 10 grams. Frequency response 30-6,000 c/s. Suitable replacement for all high output cartridges with standard fixing.

30/- 4/9



RONETTE DC-395-S

Generally as DC-284-OV but with very high output; for use with one-valve low-gain amplifiers. Sensitivity 1,450 mV./cm./sec. Load 1M Ω 100 p.f. Stylus pressure 10 grams. Suitable replacement for all very high output cartridges. Frequency response 30-6,000 c/s.

30/- 4/9



RONETTE STEREO 105

A turnover type of Crystal Cartridge for the reproduction of Stereo records and Monaural records—both L.P. and Standard. Relatively high output and excellent frequency response. Sensitivity 250mV./cm./sec. per channel Load 1M Ω 100 p.f. Frequency response 30-12,000 c/s. Stylus pressure 3-6 grams. A special version has been made for use with GARRARD 209 CHANGER. See GARRARD section.

51/- 8/1

SA250 2-50 mil. Standard
Sapphire

SA100 1-00 mil. Microgroove
Sapphire

D1-100 1-00 mil. Microgroove
Diamond



Green

4/3

8d.

Red

4/3

8d.

Red

21/6

3/5

SA250-ST 2-5 mil. Standard
Sapphire

SA-075ST 0-75 mil. Stereo
Microgroove Sapphire

D1-075ST 0-75 mil. Stereo
Microgroove Diamond



Green

4/3

8d.

Blue

4/3

8d.

Blue

21/6

3/5



RONETTE STEREO-106

Generally as STEREO-105, but with high output; for use with simple amplifying equipment. Sensitivity 580mV./cm./sec. Load 1M Ω 100 p.f. Stylus pressure 4-7 grams.

51/- 8/1



RONETTE STEREO-208

Generally as STEREO-105, but designed to meet the demand for a very high output Stereo Cartridge. Sensitivity 750 mV./cm./sec. Load 1M Ω 100 p.f. Stylus pressure 6-10 grams. Frequency response 30-5,000 c/s.

51/- 8/1

RONETTE PHONOFLUID
CARTRIDGE TO-400-OV

This Crystal Cartridge has rarely been used on Record Players marketed in this country. One manufacturer using same is Starr Electronics. Because of peculiar fixing arrangement, no alternative will suit.

35/- 5/7



RONETTE TX88

Monaural Crystal Cartridge of turnover type using "Stylomatic" stylus assembly giving improved reproduction. Designed for high fidelity purpose. Stylus of clip-on type—very easily replaceable. Sensitivity 150 mV./cm./sec. Load 1M Ω 100 p.f. Frequency response 30-20,000 c/s. Stylus pressure 2-8 grams. Used by Collaro.

35/- 5/7

SA-250-ST 2-50 mil. Standard
SapphireSA-075ST 0-75 mil. Stereo/
Microgroove
SapphireDI-075ST 0-75 mil. Stereo/
Microgroove/
Diamond

Green 4/3 8d.

Blue 4/3 8d.

Blue 21/6 3/5

Studio Standard

Studio Microgroove



Green 4/6 9d.

Red 4/6 9d.

TX88 Standard Sapphire

TX88 Standard Diamond

TX88 Microgroove Sapphire

TX88 Microgroove Diamond



Green 12/- 1/11

Green 71/7 11/4

Red 12/- 1/11

Red 71/7 11/4



ROTHERMEL SENIOR

For 78 r.p.m. Records only.
Replacement for Senior Pick-up.



ROTHERMEL S8

For 78 r.p.m. Records only.
Replacement for S/8 and S/12
Rothermel De Luxe Pick-ups,
also older Collaro and Garrard.



ROTHERMEL U48

For 78 r.p.m. Records only.
Replacement for U48 Rothermel
Pick-ups, also some Collaro
Microgram Units.

REUTER STD1
REUTER STD2

Turnover Crystal Cartridges for
Monaural and Stereo records.
Identical in appearance but have
different characteristics.

STD1 Sensitivity 220mV./cm./
sec. Load 1MΩ. Frequency
response 30-13 Kc/s. Stylus
pressure 3-5 grams.

STD2 Sensitivity 100 mV./cm./
sec. Load 1MΩ. Frequency
response 30-16 Kc/s. Stylus
pressure 3-4 grams.

Both types use same stylus
assemblies.

Cartridges **NO LONGER
AVAILABLE.** Many cartridges
of similar output will serve as
substitute.

ALL THREE
TYPES
OBSOLETE
and
**NO
LONGER
AVAIL-
ABLE**



REUTER STD3

A single sided Crystal Cartridge
for Monaural, L.P. and Stereo
records only. Sensitivity 220
mV./cm./sec. Load 1MΩ. Fre-
quency response 30-13 Kc/s.
Stylus pressure 3-5 grams.

Cartridges **NO LONGER
AVAILABLE.** Many cartridges
of similar output will serve as
substitute.

Ordinary Needles

Ordinary Needles

Ordinary Needles

N4 Standard Sapphire

S1 Microgroove/Stereo
SapphireS1D Microgroove/Stereo
DiamondS1 Microgroove/Stereo
SapphireS1D Microgroove/Stereo
Diamond

SHURE M3D STEREO
CARTRIDGE

A Magnetic Cartridge of excellent frequency response and channel separation for Stereo and micro-groove and monaural records. Output 5mV./cm./sec. per channel. Load 47,000 Ω . Tracking weight 3-6 grams. Frequency response 20-15,000 c/s. D.C. resistance 280 Ω .

212/6 34/1

SHURE M3/N21D STEREO
CARTRIDGE

As M3D but fitted with tubular Stylus giving higher compliance and increased frequency response 20-20,000 c/s. and capable of tracking at a force 2½ grams max.

OBSOLETE

SHURE M7DM STEREO
CARTRIDGE

A Magnetic Cartridge of good quality but moderate cost for Stereo and Microgroove records. Output 5mV./cm./sec. per channel. Load 47,000 Ω . Tracking weight 4-7 grams. Frequency response 20-15,000 c/s. D.C. resistance 280 Ω .

150/- 24/1

SHURE M7/N21D STEREO
CARTRIDGE

As M7D but fitted with tubular stylus giving higher compliance and increased frequency response 20-20,000 c/s. and capable of tracking at 2½ grams max.

OBSOLETE

SHURE M8D STEREO
CARTRIDGE

A high quality low cost Stereo Cartridge designed primarily for use with auto-change units. Frequency response 30-15,000 c/s. Output 5mV./cm./sec. per channel. Load 47,000 Ω . Tracking weight 5-8 grams.

OBSOLETE

SHURE M33-7 STEREO
CARTRIDGE

A professional cartridge of the highest quality. Output 6mV. Frequency response 20-20,000 c/s. Tracking weight 1½ to 3 grams. D.C. resistance 750 Ω . Standard ½" fixing centres.

OBSOLETE

N3D -0007 Diamond Stylus



106/3 17/1

N21D -0007 Diamond Stylus
Compatible tip

191/3 30/9

N25D -0005 Diamond Stylus
Stereo only

191/3 30/9

N7D -0007 Diamond Stylus



85/- 13/8

N21D -0007 Diamond Stylus
Compatible tip

191/3 30/9

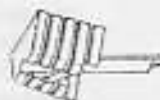
N25D -0005 Diamond Stylus
Stereo only

191/3 30/9

N8D -0007 Diamond Stylus



63/9 10/3

N33-7 -0007 Diamond stylus
compatible tip.

148/9 23/11

SHURE M5D and M6S MONO
CARTRIDGE

A Magnetic Cartridge for Mono records. M5D is for mono/L.P. records and is fitted with 0-001 diamond stylus. M6S is for Mono Std. records and is fitted with 0-003 sapphire stylus. Output 21 mV. Frequency response 20-20,000 c/s. Load 27K Ω . Tracking weight 3-6 grams.

M5D
233/9 37/6M6S
127/6 20/6SHURE M44-5 STEREO
CARTRIDGE

A high quality Magnetic Stereo Cartridge for use with high quality arms. Frequency response 20-20,000 c/s. Output 6mV./cm./sec. Load 47,000 Ω . Tracking weight $2\frac{1}{2}$ grams. Fitted with 0-0005 diamond stylus.

250/- 40/1

SHURE M44-7 STEREO
CARTRIDGE

A high quality Magnetic Stereo Cartridge. Frequency response 20-20,000 c/s. Output 9mV/cm. sec. Load 47,000 Ω . Tracking weight $1\frac{1}{2}$ -3 grams. Fitted with 0-0007 diamond stylus.

237/6 38/1



SHURE M55-E

A Magnetic Stereo Cartridge of the highest quality incorporating an elliptical diamond stylus. Maximum tracking pressure of $1\frac{1}{2}$ grams necessitates the use of transcription type arm. Frequency response 20-20,000 c/s. Output 6mV./cm./sec. Load 47,000 Ω . Tracking weight $\frac{3}{4}$ - $1\frac{1}{2}$ grams. Diamond stylus 0-0009 frontal 0-0002 side.

342/6 55/-

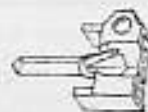
N5D 0-001 Microgroove
DiamondN6S 0-003 Standard
Sapphire

127/6 20/6

42/6 6/10

N44-5 0.0005 Stereo
Diamond

125/- 20/1

N44-7 0-0007 L.P./Stereo
Diamond

112/6 18/1

N55-E 0-0009
0-0002 Elliptical
Stereo Diamond

187/6 30/1

SHURE M77 STEREO
CARTRIDGE

A good quality cartridge for pick-up arms tracking 3 to 6 grams with reasonable output—9 mV. Frequency response 20-17,000 c/s. Standard $\frac{1}{4}$ " fixing centres. D.C. resistance 750 Ω . Cartridge obsolete and NO LONGER AVAILABLE.

— —

2T SONOTONE CERAMIC
CARTRIDGE

A Ceramic Cartridge both for Standard and L.P. Records, enjoying a Dual purpose Turn-over Stylus i.e. two points mounted either side of a single shank. Cartridge case is Brown in colour.

30/- 4/9

Frequency response 30-10,000 c/s. Sensitivity 180 mV./cm./sec. Tracking weight 8-9 grams. Load 1M Ω .

3T SONOTONE CERAMIC
CARTRIDGE

A turnover type pick-up Cartridge using a Ceramic element, in which the vibrating mass associated with the Stylus change has been kept to a minimum. For Monaural use only. Stylus consists of two points mounted either side of a single shank.

Frequency response 30-12,000 c/s. Sensitivity 120mV./cm./sec. Load 1M Ω . Stylus pressure 6-7 grams.

Cartridge obsolete and NO LONGER AVAILABLE recommended replacement type 2T. Styli still obtainable.

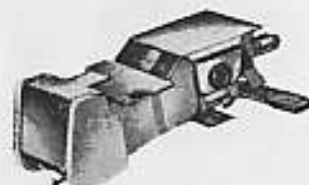
8T SONOTONE
STEREOPHONIC
CARTRIDGE

A ceramic type Cartridge suitable for tropical use designed for Monaural and Stereophonic reproduction. The familiar Twin Stylus Needle, with a point mounted on either side of the shank is used one being 3 mil. for 78 r.p.m. Monaural Records and the other 0.7 mil. for L.P. Monaural Stereo.

Response 40-12,000 c/s. Sensitivity 200mV./cm./sec. Stylus pressure 4-6 grams.

Cartridge obsolete and NO LONGER AVAILABLE. Recommended replacement type 8T4A.

— —

SONOTONE 8T4A STEREO
CARTRIDGE

A Stereo Ceramic Cartridge also suitable for Monaural, L.P. and Standard records and which supercedes type 8T. Frequency response 40-15,000 c/s. Output 200mV./cm./sec. Stylus pressure 4-6 grams. Body moulding colour Red. This cartridge is identical in appearance, apart from colour, to type 8T which it replaces. Styli are similar in appearance but, close examination will show that points are slightly offset as compared with 8T type. N.B. The N8TAS will fit either cartridge, but 8T stylus will not fit 8T4A.

40/- 6/4

N77 -0007 Diamond stylus
compatible tip.

85/- 13/8

2T Dual Point Sapphire
78 r.p.m. Diamond
Microgroove

27/6 4/4

2T Sonotone Dual Point
SapphireGreen Std.
Red L.P.

11/9 1/11

3T Dual Point Sapphire
78 r.p.m. Diamond
Microgroove

27/6 4/4

3T Sonotone Dual Point
SapphireGreen Std.
Red L.P.

11/9 1/11

8T Dual Point Sapphire
78 r.p.m. Diamond/Stereo
Microgroove

27/6 4/4

8T Sonotone Dual Point
SapphireGreen Std.
Red L.P.

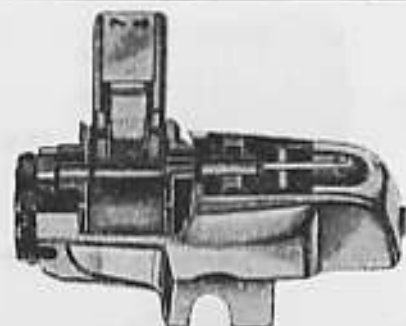
11/9 1/11

N8TAS Dual point Sapphire
78 r.p.m. and
Microgroove/Stereo

11/9 1/11

N8TASD Dual point Sapphire
78 r.p.m. Diamond
Microgroove/Stereo

27/6 4/4

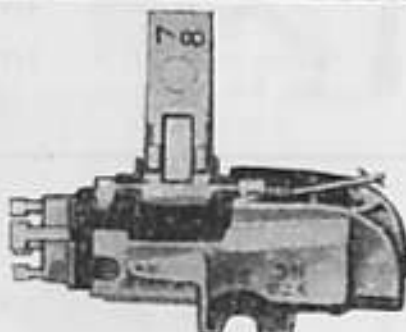


This is a high quality Turnover Stereo Cartridge also suitable for Monaural L.P. and Standard records having high compliance and low tracking weight. Frequency response 40-17,000 c/s. Output 250 mV./cm./sec. Stylus pressure 3 grams.

With
Sapphire
65/- 10/4

With 1
Sapphire
1 Diamond
95/- 15/1

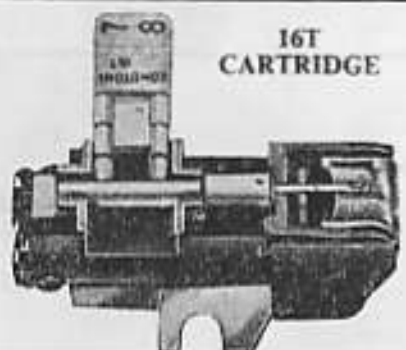
SONOTONE 9T STEREO CARTRIDGE

SONOTONE 9THC STEREO
CARTRIDGE

A high compliance Ceramic stereo cartridge, particularly suitable for Garrard 3000LM changer. Characteristics similar to 9TA but has a different stylus assembly. Stylus turnunder lever shorter and yellow in colour. Stylus will automatically return to normal playing position even when twisted out of damping guide. This guide also retracts under pressure thereby eliminating possibility of damage to record. Stylus not interchangeable with 9TA. Stylus points normally diamond L.P./Stereo. Sapphire 78 r.p.m.

With
2 Sapphires
40/- 6/5

With
1 Sapphire
1 Diamond
60/- 9/8

16T
CARTRIDGE

This is a ceramic cartridge and is suitable for tropical use having a superior performance on stereo and monaural recordings. Compliance: 2.4×10^{-6} cm./dyne. Response: 40-12,000 c/s. Output: 300 mV. Separation: 20 db. Tracking force: 5 grams.

16TS Sapphire 45/- 15/-

16TSD Diamond L.P./Stereo
Standard Sapphire 75/- 25/-



TANNOY VARIABLE RELUCTANCE MK11

This Cartridge is available in 2 types, a turnover type as illustrated, and also a fixed type for single styli operation. Styli are easily replaceable and are available with either Sapphire or Diamond Points. As the Turnover and Single Play Cartridges are available in five combinations Sapphire, Diamond, etc., prices have been omitted.

N9TS Dual point Sapphire
78 r.p.m. and
Sapphire Micro-
groove/Stereo



— 15/- 2/4

N9TSD Dual point Sapphire
78 r.p.m. and
Diamond Micro-
groove/Stereo

— 45/- 7/2

9THCS Dual Point Sapphire
78 r.p.m. and
Sapphire Micro-
groove/Stereo

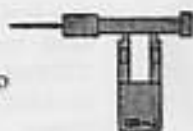


— 15/- 2/4

9THCSD Dual point Sapphire
78 r.p.m. and
Diamond Micro-
groove/Stereo

— 45/- 7/2

16NTS Standard Sapphire



— 12/- 4/-

16NTSD Diamond L.P./Stereo
Standard Sapphire

— 40/- 13/4

Microgroove Sapphire
Stylus 1 mil.



Red 10/6 6/9

Microgroove Diamond
Stylus 1 mil.

Black 42/- 6/9

TANNOY VARI-TWIN STEREO
CARTRIDGE

This is a variable reluctance type of Cartridge designed for quality reproduction of Stereophonic Records. Available with $\frac{1}{4}$ thou" Stylus for Stereo or $\frac{1}{8}$ thou" compatible tip for Stereo and L.P. Monaural reproduction. Due to low tracking pressure, 3-4 grams is only recommended for use with pick-up arms of good mechanical quality. BOTH CARTRIDGE AND STYLUS ONLY AVAILABLE FROM TANNOY APPOINTED DEALERS

— —

TELEFUNKEN STEREO
CARTRIDGE T20/2 A20/2

A Crystal Cartridge with turn-under type Stylus assembly with sapphires mounted each side of a single shank. For 78 r.p.m. and Microgroove/Stereo records.

31/6 5/-

TELEFUNKEN CRYSTAL
CARTRIDGE TTSA

Crystal Turnover type which will fit most Standard Arms and has been used on certain models of BRAUN and Blue Spot Radiograms. Cartridge case is Ivory in colour. Employs Dual Stylus, i.e., two points mounted on single Stylus Shaft.

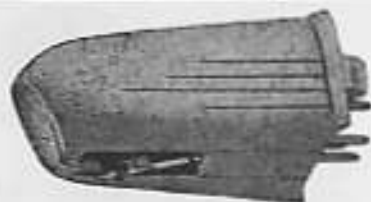
32/6 5/2



TEPPAZ ECO60 CARTRIDGE

A Turnover Crystal Cartridge for Standard and Microgroove Monaural records. Used on most TEPPAZ record players marketed in this country. Output 0.3V./cm./sec. Frequency response 30-12,000 c/s. Stylus pressure 10 grams.

23/9 3/9

TEPPAZ STEREO 60
CARTRIDGE

A plug-in replacement Stereo Head of Crystal type used as Stereo counterpart to ECO60 on TEPPAZ record players. Output 0.2V./cm./sec. Frequency response ± 2 db. 30-12,000 c/s. Stylus pressure 4-8 grams.

45/- 7/2

Tannoy Stereo 0.5 mil. Diamond

Tannoy Stereo/Microgroove
0.75 mil. DiamondOBTAINABLE FROM
TANNOY
APPOINTED
DEALERS ONLYA20/2 Dual Stylus Standard
Microgroove/Stereo

— 13/6 2/2

Telefunken Dual
Point SapphireGreen Std. } 11/9 1/10
Red L.P. }

ECO60 Standard Sapphire

Red 5/- 9d.

ECO60 Microgroove Sapphire

Blue 5/- 9d.

ECO60D Microgroove Diamond

— 21/6 3/5



Stereo 60 Sapphire

— 6/- 1/-

Stereo 60 Diamond

Blue 21/6 3/5



PICK-UP ARM ADAPTORS



This will fit the larger type of Pick-up Arm on Models RC65 and RC70 Record Changers to convert them to take the range of Garrard and Decca Plug-in Pick-up Heads.

Obsolete and NO LONGER AVAILABLE.

GARRARD TYPE A ADAPTOR 47993



Will fit the Pick-up Arm on the Model RC72, RC72A, RC75A and RC80 Record Changers and the Model M Radiogram Unit, to take the range of Garrard and Decca Plug-in Pick-up heads.

Obsolete and NO LONGER AVAILABLE. Use MPM1 head in lieu.

GARRARD TYPE B ADAPTOR 48893



To fit the Garrard Model RC72, RC72A, RC75A, and RC80 Record Changers and the Model M Radiogram Unit to take the Acos Type GP19, HGP39 Crystal Pick-up Heads.

NO LONGER AVAILABLE. Use MPM1 head in lieu.

GARRARD TYPE C ADAPTOR



To fit certain B.S.R. units used by Decca, the Garrard TB unit and also to convert the BJ Arm to take Acos slide-on heads HGP39 or old type GP19 head.

Obsolete and NO LONGER AVAILABLE. No recommended replacement.

DECCA TO ACOS ADAPTOR

PICK-UPS COMPLETE AND PICK-UP ARMS



ACOS "BLACK SHADOW" PICK-UP

The "Black Shadow" is a new concept in crystal pick-up design. Two outputs give universal matching to any amplifier. One utilizes the inherent recording equalization of the crystal, to give a response approximately flat to 18 kc/s. without further correction. The other has a velocity characteristic which

feeds directly into the magnetic pick-up input of any amplifier. Supplied complete with HGP39-3 Microgroove head with diamond stylus and Selector box. Pick-up arm only allowing for either type of HGP39-3 head to be fitted. See page 5.

93/2 14/10

21/8 3/5



ACOS HI-LIGHT STEREO PICK-UP

The 'Hi-Light' Pick-up has been designed to play records at downward pressure with the elastic limit of the disc material. No permanent deformation of the record takes place under these conditions and record wear is not measurable.

The requirements for a Cartridge to fulfil such conditions are most stringent. A very low effective tip mass is required, coupled with a high compliance. With one head Stereo or L.P.

Additional Heads Sapphire

Additional Head Diamond

256/- 41/1

31/- 5/-

46/6 7/6



B.J. TAN II PICK-UP ARM

B.J. COUNTER WEIGHT UNIT
For above Pick-up

This Arm is claimed to achieve perfect tracking. By following the tangent of groove exactly, it preserves records, extends frequency response and offers many other advantages. Decca XMS or type H can be used or, with the addition of the B.J. adaptor, the Acos HGP39 head can be used. The special B.J. head can be used without adaptor.

All later models supplied wired and ready for Stereo use.

Attached to B.J. Arm with or without standard weights produces a total point pressure variation of approximately 4 grams.

63/- 10/-

12/- 1/11



B.J. SUPER 90 ARM

The B.J. Super 90 is the new DE-LUXE edition of the world famous B.J. Arm which since its introduction as the first pick-up arm to overcome TRACKING ERROR, has made the word TANGENTIALITY another way of saying HI-FIDELITY. Supplied with two plug-in shells which will suit over 15 popular heads, arm clip, spare weights and mounting template. Suitable for all records up to 16". Height variable by more than 1" to adjust for different turntables.

All later models wired and ready for Stereo use.

231/- 36/7



GOLDRING GL56 ARM and SHELL

conversion kits are now available consisting of three socket plug-in head, three pin arm plug, cable and terminal strip.

PH1 Spare Shell 2 Pin	10/6	1/9
PH2 Spare Shell 3 Pin	15/6	2/7
Stereo Modification Kit	20/6	3/4

GOLDRING G60
TRANSCRIPTION PICK-UP ARM

Slide-in platform

A new pick-up arm of transcription quality specially designed to take all modern monaural and stereophonic cartridges with standard fixing dimensions. *The slide-in platform carrying the pick-up cartridges is the simplest and most positive "head" arrangement yet devised. Its four pin contacts mate perfectly with the lead carrying contacts in the arm. The height of the arm and also of the folding rest are adjustable for all modern transcription motors. Playing weight is easily adjusted by a milled wheel under the arm from zero upwards. New type precision bearings ensure smooth free movement laterally and vertically. Offset angle and overhang dimensioned to give minimum distortion on 12" records.

	60/-	9/9
Additional slide-in platforms.	10/6	1/8

GOLDRING-LENCO L70
PICK-UPGOLDRING-LENCO L80
PICK-UP

Transcription type pick-up arm of tubular metal with plug-in type head shell wired for both monaural and Stereophonic.

Suitable for use with all types of cartridges using the standard 1/2" fixing centres. Playing weight 0-15 grams, and height can be adjusted to fit all types of installations.

	126/-	41/-
PH3 Spare Head Shells	30/-	4/11
As L70 but (12" Arm).	168/-	54/8

GARRARD TPA12
TRANSCRIPTION PICK-UP ARM

Elegantly styled in an attractive combination of Ivory, Chrome and Red. Length 9 1/2" from stem to stylus minimising tracking errors and permits the playing of 16" records. It is wired and technically approved for monaural and stereo reproduction. Arm takes MPM4 plug-in shell allowing for all cartridges being fitted. See page 59 for plug-in heads suitable for this arm.

Arm now obsolete and NO LONGER AVAILABLE.

A beautifully balanced die cast arm, mounted on a smoothly operating ball race, has plug-in facilities for maximum flexibility and external control unit for exact stylus pressure. This Pick-up Arm has now been withdrawn though spare shells are still available. This Arm prior to the introduction of stereo was used on all Lenco transcription units in two pin form but



DECCA MK. I SUPER PICK-UP ARM

This arm supersedes original Mk. I arm and is specially designed for a playing weight of 2 grams. for Mk. III head. Like the Mk. I this is damped with viscous fluid.

135/9 21/9

Mk. I arm suitable for Mk I and Mk. II heads and 78 r.p.m. and L.P. mono heads. Tracking weight 3 1/2 grams.

90/6 14/6

DECCA RESTYLED
PROFESSIONAL ARM

The Restyled Professional Arm, when used in conjunction with the ffs Mk. III head, creates a combination unrivalled throughout the world for quality of sound reproduction. This unique arm possesses many outstanding features. They are both coarse and fine counterweight adjustments for achieving perfect dynamic balance. An additional sliding weight in conjunction with an accurately calibrated scale allows for adjustment of stylus pressure to suit all the heads in the ffs range. A lowering device is incorporated, and a de-

gree of bias compensation is another feature of the design. The pick-up leads are brought out to a 4-pin socket at the base of the pillar. This allows for ease of installation and overcomes the danger of added torsional forces caused by twisted pick-up leads.

This completely supersedes original Professional Arm at no difference in price.

Price less Mk. III Head	316/8	50/10
Price complete with Mk. III Stereo Head (note saving of 3 gns.)	579/1	92/11

DECCA DERAM
TRANSCRIPTION ARM

With the knowledge gained in the development of the "ffs" and "Professional" pick-ups, Decca have now produced a transcription arm specifically designed for use with the "Deram" cartridge (though the cartridge can, of course, be used with the majority of other arms). The "Deram" transcription arm is, needless to say, manufactured to precision limits and the whole assembly is designed to keep the arm resonance well below the audio spectrum and is specially damped with viscous fluid to prevent shocks exciting the pick-up.

Transcription Pick-up Complete with stereo cartridge.	191/11	27/7
Transcription Arm only.	90/6	14/6

DECCA ANTI-RUMBLE
INTEGRATED PICK-UP

In the Decca Deram AR1 pick-up the mechanical combination of arm and head has been arranged to effect directionally selective filtering which almost eliminates the most troublesome rumble frequencies without reducing any required low frequency signal. The great advantages of this purely mechanical system operating at the point of excitation as opposed to more complex devices built into the amplifiers, are not only its extreme simplicity, but also the fact that wanted and unwanted modulations even of the same frequency are mechanically separated and the unwanted filtered while the wanted remain unimpaired.

The Deram AR1 pick-up arm is fitted with the transcription stereo pick-up head suitable for all stereo records and the majority of mono L.P.s., E.P.s., and 45 r.p.m. singles. The arm will also accept the mono L.P. and 78 r.p.m. Deram heads. Playing weight is factory pre-set at 3.5 grams, but this may be adjusted if necessary by altering the setting of the counterweight. Dimensions: Overall length 10 1/2". Distance from centre of turntable pin to axis of rotation of pick-up base 8". Height adjustment range. Height can be varied over a range of 1 1/2".

199/1 31/

**E.M.I. EPU100 PICK-UP**

Stereo. Frequency response 30-20,000 c/s. Output 1.5 mV. per channel.

Mono. Frequency response 30-20,000 c/s. Output 1.0 mV.

Tracking weight 2.5 grams. Impedance 4,000 Ω .

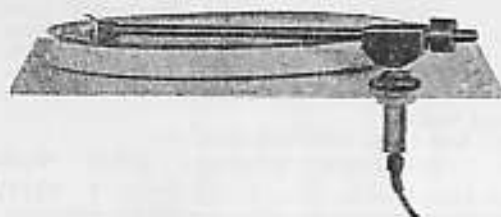
EPU100 PICK-UP WITH STEREO HEAD 328/9 56/1

EPH/M MONO L.P. HEAD 140/11 24/1

EPH/78 MONO STD. HEAD 200/- 34/2

A variable reluctance pick-up of the highest quality designed to meet the exacting demands of all Hi-Fi enthusiasts. Incorporates lifting and lowering device.

Separate heads are available for Mono and Stereo.

**LEAK DYNAMIC PICK-UP**

transformer delivers an output of 11mV. for each cm./sec. r.m.s. recorded velocity. This means that an amplifier with a sensitivity of 40 mV. at 1,000 c/s. will be easily loaded by the pick-up from commercial records.

Pick-up Arm only 55/- 8/9

Pick-up head. Standard or L.P. fitted with Diamond Stylus. 115/- 18/3

See page 116 for matching transformer.

Pick-up Arm is of advanced design having very low inertia. The arm is counter-weighted and has provision for plug in inter-changeable heads. Tracking weights 2/3 grams. L.P. 5/6 grams Standard. Automatically adjusted by the weight of the head. Frequency range. Total variation — 20,000 c/s. to 40 c/s. with L.P. head, including transformer.

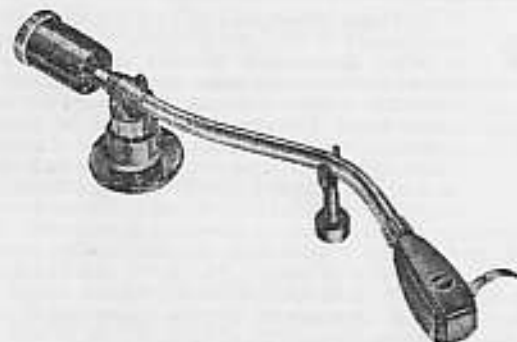
Output. The shielded step-up

transformer delivers an output of 11mV. for each cm./sec. r.m.s. recorded velocity. This means that an amplifier with a sensitivity of 40 mV. at 1,000 c/s. will be easily loaded by the pick-up from commercial records.

Pick-up Arm only 55/- 8/9

Pick-up head. Standard or L.P. fitted with Diamond Stylus. 115/- 18/3

See page 116 for matching transformer.

**ORTOFON SMG212 PICK-UP ARM**

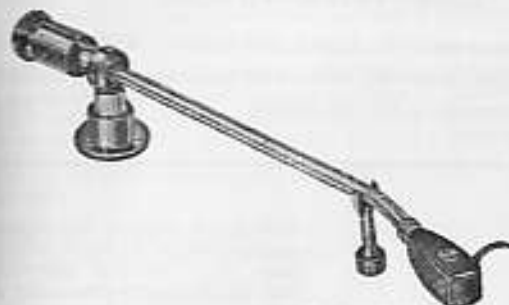
Due to the special shape of the arm, turntable leveling is unnecessary. The turntable may be up to 30° out of level before tracking difficulties arise. Ball bearings are applied for both horizontal and vertical motions, assuring trouble-free performance even at the lowest possible stylus forces. Designed for the type G Shell. No other type of shell will fit into it. All ORTOFON Cartridges can be mounted into the G shell. Furthermore, this shell is designed to take standard cartridges of other makes. Height over mounting plate adjustable.

200/- 32/1

**ORTOFON TYPE SKG212 PICK-UP ARM**

For exchangeable Heads Designed for the type G Shell. No other type of shell will fit into it. All ORTOFON Cartridges can be mounted into the G shell. The G shell is designed to take standard cartridges of other makes. Distance between disc centre and arm centre: 212 mm. Stylus pressure adjustable.

110/- 17/8

**ORTOFON TYPE RMG309 PICK-UP ARM**

Distance between disc centre and arm centre: 309 mm. Statically balanced, stylus pressure adjustable by means of a spring. Rubber damping between arm and counterweight. Height over mounting plate adjustable. Fitted with type G pick-up head shell which will accommodate Ortofon and all other standard cartridges.

420/- 66/8

TYPE RKG30

As above but stylus pressure adjustment by means of counter-weight.

340/- 54/-

**S.M.E. PRECISION PICK-UP ARM**

measured at the stylus. Cartridges can be used at optimum stylus pressure without the excess weight otherwise required to overcome friction in the pivots.

A carefully chosen offset minimises distortion due to tracking error.

The balance system permits accurate longitudinal and lateral balance of cartridges from 7-20 grams weight and tracking pressures from 1/4 to 5 grams applied precisely without the need for a stylus pressure gauge.

Full advantage can be taken of the best present and future cartridges, impracticable with arms of 'integrated' design.

Lever operated raising and lowering control gives automatic slow descent. Fascinating to use—safeguards valuable records.

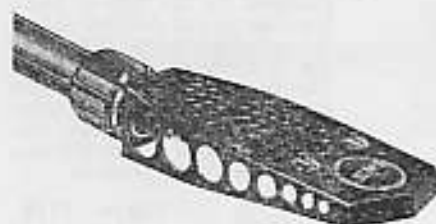
Choice of tone arm length to suit space available. If the motor board is big enough the 3012 is better, tracking error is even smaller and for studio use 16" records can be played. Otherwise the 3009 can be used with every confidence and indeed is the one most frequently employed.

Model 3009 Series II Precision Pick-up Arm complete with L4 connecting lead but less shell. 409/6 68/3

Model 3012 Series II Precision Pick-up Arm complete with L4 connecting lead but less shell. 439/6 73/3

S3 Standard Shell 18/- 3/-

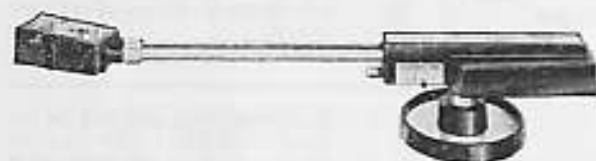
D3 Adaptor 28/-



**SME ULTRA LIGHT
HEAD SHELL**

Made throughout in light alloy with nearly 120 perforations, this new ultra-light shell weighs only grams. Developed especially for cartridges having a compliance of 20 and upwards, it offers a valuable saving in mass at the point of greatest effect. Available with companion balance weight as an accessory for all Series II models.

S.2.W/9 Ultra light shell with companion balance weight for Model 3009 Series II	45/-	7/6
S.2.W/12 Ultra light shell with companion balance weight for Model 3012 Series II	45/-	7/6
S.2. Ultra light shell (can only be used with companion balance weight)	24/-	4/-



SHURE M232 PROFESSIONAL TONE ARM

This is an arm of the highest quality which features plug-in head with positive alignment lock which accepts practically all types of cartridges. Precision ball bearings at all pivot points, variable height adjustment. Tracking force 0.8 grams. Easy to instal—all connections can be made from top of motor board. Furnished with cable having plug on earth end to simplify installation.

Pick-up Arm	255/-	40/6
Plug-in Head Shell	21/3	3/5



**SHURE M212 TONE ARM and
STEREO CARTRIDGE**

This pick-up tracks at the incredibly light weight of 1½-2½ grams minimizing record wear and virtually eliminating the possibility of scratch. Jewel bearings throughout. Cartridge is pivoted on ruby sleeve and jewelled bearings. Arm pivot is a ruby thrust bearing. Cartridge is of moving magnet type within stationary coils. Frequency response 20/20,000 c/s. Separation better than 21db. at 1,000c/s. Output 4.5mV. per channel. D.C. resistance 600 Ω. Compliance (Vert-Lateral) 9 × 10⁻⁸cms./dyne.

Price with Stereo Head	722/6	115/11
A Monaural L.P. Head is available for this type of arm. Type M1.	318/9	1026



**THORENS TRANSCRIPTION
TONE ARM BT-D12S**

The tone arm that perfectly matches the performance of Thorens turntables. Taking into account the exhaustive experiments made by professional users, the BT-D12 S arm has been designed to suit the need of the discriminating music lover for a precise, secure, easy to use and rugged instrument.

Specially adapted to receive pick-up cartridges of the highest lateral and vertical compliance, the realisation of the lowest possible inertia, both in the horizontal and vertical plane, has been considered as one of the first objectives.

Precision ball bearings throughout, simultaneous longitudinal and lateral balance, stylus force realised by means of a spring device exerting a torque on the horizontal shaft and precisely adjustable through a knob calibrated in grams, a convenient integrated arm control for lowering and raising the pick-up, are some of the main features of the BT-D12 S tone arm.

Evidence of utmost engineering precision and finely finished work appears here as on each Thorens turntable.

A few minutes and a screwdriver only are necessary to mount a factory pre-adjusted BT-D12 S arm on a THORENS TD 124 turntable.

270/- 46/6

PICK-UP MATCHING TRANSFORMERS

B.S.R. AF333 For matching low impedance inputs to high impedance to suit majority of crystal pick-ups, but designed in particular for GU4A (Regent) and Monarch units using TC4 crystal cartridge.

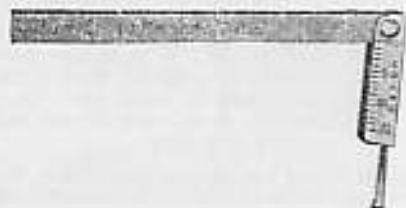
Retail Price 36/-

LEAK A mu-metal cased transformer for use with Leak Dynamic pick-up.

Retail Price 35/-

PICK-UPS AND UNIT ACCESSORIES

THE ACOS STYLUS PRESSURE GAUGE



The new ACOS stylus pressure gauge enables you to check the downward force on your stylus in an instant, and keeps your equipment in first-rate condition, thereby protecting your records.

The ACOS stylus pressure gauge is constructed of channel-section nickel-plated brass and is graduated from 0-15 grams. It is of robust construction and folds up to protect the spring when not in use.

Retail Price 9/6 plus Tax 1/7

GARRARD SPG3 STYLUS PRESSURE GAUGE



FEATURES. Elegantly styled—Modern design—Pleasing appearance. Easily readable scale, visible through a clear plastic window, reading 0-12 grams., with $\frac{1}{2}$ gramme indications. Utmost sensitivity and accuracy. Accurate through the entire scale, 0-12 grams. Easy to operate. Readily adjustable. Plastic Scale Pan—no damage to delicate stylus. Swivelling Balance Lever to ensure sensitivity with all pick-ups. Will accommodate all current Pick-up Arms and Heads. Measures the exact Stylus Pressure at the actual stylus and at record level. Supplied complete with a 5 gram. checking weight.

Retail Price 15/3 plus Tax 2/6

GOLDRING STYLUS PRESSURE BALANCE



A small, simple and accurate balance which does not rely on springs. The stylus tip rests in an indentation at one end, and a sliding weight, moving along a scale graduated from 4 to 10 grams indicates stylus pressure. An inexpensive "must" for all gramophone users.

Retail Price 3/6 plus Purchase Tax 7d.

PICK-UPS AND UNIT ACCESSORIES

LENCO STYLUS PRESSURE BALANCE STB2



As illustrated. A simple but accurate balance graduated 0-5 grams.

**Retail Price 12/6
plus Purchase Tax 2/1**

DECCA STYLUS CLEANER



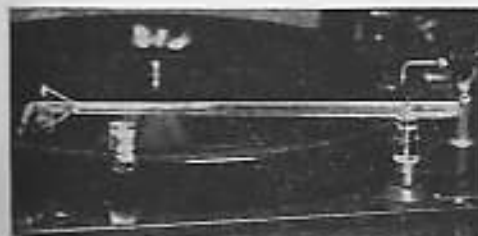
This new product is soundly constructed and incorporates a wheel covered in soft hair which engages with the stylus when the pick-up is in its rest position. A height adjustment screw means that the Cleaner can be accommodated to suit any pick-up on the market and the wheel is easily turned in one direction only by means of a single device.

The Cleaner helps to preserve your records and keep your sapphire or diamond stylus in excellent condition—indeed, it is a "must" for all discerning and conscientious record collectors.

Note:—For use with all non-automatic record players.

Retail 18/- Plus Tax 3/-

THE "DUST BUG"



Easily fitted to any turntable and will remove dust and static from the grooves of a record at the moment of playing. A device which has already sold in many thousands and is to be highly recommended.

Retail 17/6 plus Tax 2/11

SPARE PLUSH PADS List 9d.

SPARE NYLON BRISTLES List 1/-

SPARE BOTTLES OF CLEANING FLUID List 1/6

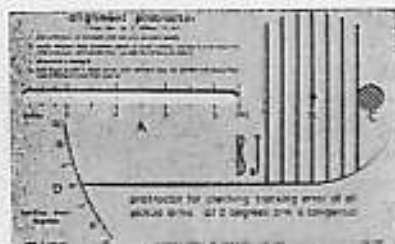
AUTO CHANGER "DUST BUG"



As above but specially designed for fitting to Pick-up Arms on Auto-Change units.

Retail 17/6 plus Tax 2/11

PICK-UPS AND UNIT ACCESSORIES



B.J. PICK-UP ALIGNMENT PROJECTOR

Produced in plastic ivorine instantly measures the tracking accuracy of all pick-up assemblies, thus allowing the mounting position to be checked.

Retail Price 7/-

PHILIPS CENTURY STYLUS TESTER

New developments in the design of pick-ups used for both monaural and stereophonic reproduction offer much improved performance to record enthusiasts. However, it is more important than ever that the adverse effect of stylus wear should not be allowed to offset advantages made possible by improved techniques. Regular stylus inspection is therefore essential. This remarkable new tester which features a built-in adjustable illumination system allows the stylus to be seen brilliantly lit, magnified a hundred-fold.

Retail price £10 10 0



GOLDRING STYLUS MICROSCOPE

Styli are easily positioned under the lens of the microscope by means of the rotating snap clip. Twin illumination is provided to offer maximum contrast and magnification is variable from 50 to 150 times, enough for even the smallest flaw or flat to be detected.

Retail Price £9 9 0

LESS POPULAR TYPE STYLI

This section is introduced to help people as regards the identification of the more obscure types of styli. Such styli are mainly found in imported record players and radiograms, and in equipment used by visitors to this country. These styli are not readily available from the majority of dealers, due to the very limited demand, but dealers wishing to obtain same will be able to do so from the specialised wholesalers dealing in this range.

SAPPHIRE NUMBER	ILLUSTRATION	DESCRIPTION	SAPPHIRE NUMBER	ILLUSTRATION	DESCRIPTION
S.57		Schumann Merula Stereo STK490	S.214		LESA B
S.59		Elac KST9 Perpetuum PE8/10 45-33 1/2 r.p.m. only.	S.215		LESA E
S.75		Philips 3001 Double Tip	S.216		DUAL CDS 1 Double Tip
S.202		Perpetuum P.E.5. Double Tip	S.217		ASTATIC G
S.206		General Electric RPX 040 OLD	S.218		Pathe Marconi 51
S.207		SHURE PC9-WC-38	S.219		Pathe Marconi 53
S.208		SHURE WC 32	S.220		LESA U Stereo Double Tip
S.209		SHURE P.C. 2 Double Tip	S.221		EDEN 59
S.210		SHURE P. 73	S.222		EDEN Stereo
S.211		General Electric RPJ-RPX	S.223		THORENS Double Tip
S.212		General Electric VR 2	S.224		Seeburg-Pickering R 150
S.213		ASTATIC, T LESA A	S.225		STARE 57
			S.226		VACO also Stereo
			S.227		"T" Holder for G.E. RPX

SAPPHIRE NUMBER	ILLUSTRATION	DESCRIPTION
S.228		FENTONE Ima Ami Bang-Olufsen
S.229		ROC-OLA
S.230		Electro Voice 16 TT Double Tip
S.231		Columbia SC1 Stereo
S.237		ELAC SNM 14 Double Tip
S.238		R.C.A. 72345
S.239		R.C.A. 74068
S.240		R.C.A. 75497
S.241		Philco - Magnavox Double Tip
S.242		Magnavox 560133, 560170 Double Tip
S.243		LUXOR Stereo 72786 Double Tip
S.244		LUXOR 72411 Double Tip
S.245		Admiral 409 B 19-8
S.246		Webster Electric SC1

SAPPHIRE NUMBER	ILLUSTRATION	DESCRIPTION
S.247		AUDAK R-2, R.6
S.248		RADIOHM
S.249		SEEBURG Juke-Box
S.250		Sonideal Double Tip
S.251		Pathe RC5-6
S.252		ELAC KST2
S.253		Perpetuum P.E.-T048-51
S.254		Webster Electric WE 14-15
S.255		Electro-Voice 14-34
S.256		ASTATIC K
S.257		Philips A.G. 3052-5001 Double Tip
S.259		Bang Olufsen Professional
S.260		Zenith Cobra

SAPPHIRE NUMBER	ILLUSTRATION	DESCRIPTION
S.262		General Electric G.C. 7, V.R. 22
S.264		Philips AG-5012-13
S.266		Astatic 57-T Double Tip
S.268		VACO T-45 Stereo
S.270		Schumann SK 456
S.271		R.C.A. 106770 Stereo
S.272		Fentone Double Tip
S.273		Pathe Stereo
S.274		Luxor 74916 Stereo Double Tip
S.275		Euphonics E1 Stereo
S.276		Astatic 17/D Stereo
S.277		Webster Electric SC-3 Stereo
S.278		Astatic "U" Series

SAPPHIRE NUMBER	ILLUSTRATION	DESCRIPTION
S.279		General Electric VR-22 Stereo
S.280		Re-Son Stereo & STD.
S.281		Dual DN 24 Silver Double Tip
S.282		Dual DN 26 Red Stereo
S.283		Dual DN 34 Silver Stereo Double Tip
S.284		Dual DN 43 Gold Stereo Diamond
S.285		Pathe STC 7 Stereo
S.286		Philips AG 3201 Stereo
S.287		SW-61
S.288		Pickering Seeburg Stereo
S.289		Piezo SMT-29, SMT 19X, Y152-8 Stereo
S.290		Shure M3-D Gold Stereo
S.291		Pickering Seeburg S120-S140 (Mounted on Spring)

SAPPHIRE NUMBER	ILLUSTRATION	DESCRIPTION
S.292		Sonotone N 3P1
S.293		Schumann Fanfare
S.294		Pickering Red Stereo
S.296		Sonotone 18T Stereo Double Tip
S.320		Zenith 142— 127/128
S.321		Euphonics U-8/U-9 Stereo Double Tip SR & STD Grey—Sapphire Gold—Diamond
S.322		Electrovoice No. 37 Double Tip LT—ST
S.323		Sonotone 12 THR Double Tip Stereo SR & STD
S.324		Sonotone 12 TLA Double Tip Stereo SR & STD
S.325		Vaco—Luxor 65977 With rubber Double Tip Stereo

SAPPHIRE NUMBER	ILLUSTRATION	DESCRIPTION
CS.61		EDEN
CS.69		Schumann Merula STK 490 Stereo
CS.70		Schumann Merula SK 453
CS.94		Bang & Olufson 902 H 51 STD. & L.P.
CS.120		ASTATIC 17-D L.P./Stereo-Std.
CS.121		ASTATIC 15-D Stereo
CS.131		LESA "U" L.P.-Std.
CS.132		LESA "S" Stereo
CS.133		LESA U2 L.P./Stereo-Std.
CS.137		EUPHONICS J.13.HC L.P./Stereo