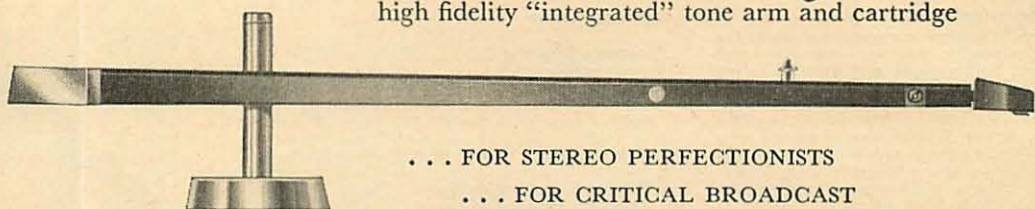


...the incomparable
Shure studio

Stereo Dynetic

high fidelity "integrated" tone arm and cartridge



... FOR STEREO PERFECTIONISTS
... FOR CRITICAL BROADCAST
AND RECORDING APPLICATIONS

The overwhelming first choice of perfectionists who appreciate the full importance of "integrated" tone-arm and cartridge to optimum stereo performance. Tracks at incredibly light $1\frac{1}{2}$ - $2\frac{1}{2}$ grams—with unparalleled fidelity... absolutely minimizes record wear, and CANNOT scratch records! We urge you to make listening tests of this unit before buying any stereo cartridge or arm—you'll hear the difference.

The Studio Stereo Dynetic has a special advantage for those music lovers who like to "index". The cartridge stylus is placed far in front, making it extremely easy for you to position the stylus on the exact spot of the record you want to play.

Still another feature of the Studio Stereo Dynetic is the fact that the stylus can be changed in the home without tools—within ten seconds.

SPECIAL FEATURES

1. MINIMIZES RECORD AND NEEDLE WEAR

Incredibly light tracking— $1\frac{1}{2}$ to $2\frac{1}{2}$ gms.—reduces record and needle wear to absolute minimum.

2. DYNETIC PRINCIPLE

Moving magnet within stationary coils. High permeability shield and hum-bucking arrangement of coils prevent pickup of hum.

3. FRICTION FREE SUSPENSION

Jewel bearings throughout. Cartridge is pivoted on sleeve and cap jeweled bearings. Arm pivot is a ruby thrust bearing.

4. SAFETY CONTROL

Provides for remote retraction of the cartridge and stylus without danger or damage to record and stylus from careless handling.

5. DYNAMIC DAMPING

Arm counterbalance floats on a damped suspension bar. This system provides critical damping (even in the subsonic range) without impeding normal motions of the arm.

6. GEOMETRIC CONFIGURATION

Arm is reinforced, tapered channel of durable aluminum. Dynetic principle permits off-setting the stylus to provide proper tracking angle.

7. 10-SECOND STYLUS REPLACEMENT

Stylus replacement is exceptionally simple and fast—requires no special skill or tools. Unique design assures correct positioning.

8. EASE OF INSTALLATION

The Stereo Studio Dynetic can be used with any high quality transcription type turntable. Arm can be installed on all conventional mounting boards with exceptional ease.

9. UNEQUALLED COMPATIBILITY

Both models M216 and M212 give true high fidelity response whether playing stereo discs stereophonically, monophonic discs monophonically or stereo discs monophonically.

10. PRECISION PRODUCTION

Stereo Studio Dynetic "Integrated" tone arms and cartridges are manufactured under critical tolerances in all performance characteristics and are individually tested electrically, acoustically and mechanically. Each unit must meet or exceed all specifications and standards before it is approved for packaging and shipment.

AUDIOPHILE TECHNICAL INFORMATION

SPECIFICATIONS	M216; M212
Tracking Force	$1\frac{1}{2}$ - $2\frac{1}{2}$ grams
Frequency Response	20-20,000 cps $\pm 2\frac{1}{2}$ db
Channel Separation	over 20 db at 1000 cps
Sensitivity: Output at 1000 cps	4.5 mv per channel (On Westrex/4 Test Record)
Recommended load impedance	50,000 ohms
Compliance: (Vertical, Lateral)	9×10^{-4} cms/dyne
Inductance	400 millihenrys
D.C. Resistance	600 ohms
Needle tip Mass	1.3 milligrams
Stylus	.0007" diamond

DIMENSIONS	Model M216	Model M212
Over-all length:	14 $\frac{3}{4}$ "	11 $\frac{3}{4}$ "
Stylus tip to center of arm base:	11"	8 $\frac{1}{2}$ "
Arm base diameter:	2"	2"
Range of height adjustment:	1 $\frac{5}{8}$ "	1 $\frac{5}{8}$ "
Arm pivot to turntable center:	10 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "
Net Weight (arm and cartridge):	11.1 oz.	10.6 oz.

CATALOG NUMBER, PRICES

Model M216—Studio Stereo Dynetic for records up to 16" including M21 cartridge with Shure .0007" Diamond Stylus
Audiophile Net: \$89.50

Model M212—Studio Stereo Dynetic for records up to 12" including M21 cartridge with Shure .0007" Diamond Stylus.
Audiophile Net: \$89.50

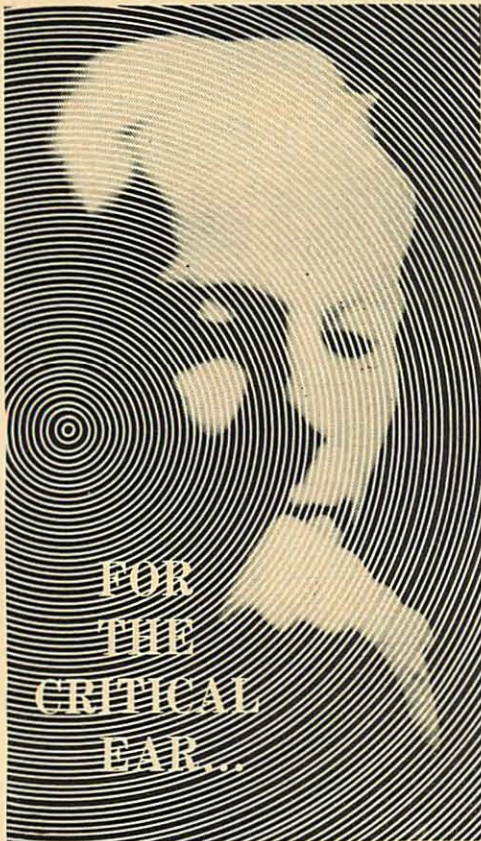
Model N21—Studio Stereo Dynetic Cartridge with Shure precision-made .0007" Diamond Stylus.
Audiophile Net: \$49.50

Model N21—Shure replacement Stereophonic stylus assembly for Model M21, M216, M212; .0007" Diamond tip.
Audiophile Net: \$24.75

Model A30C—Stereo Cable Assembly for connecting M212 or M216 to preamplifier and amplifiers. Assures maximum performance and greatest ease of installation.
Audiophile Net: \$1.95

Model A29R—Adapter Plate for use with Model M212 for mounting purposes with the Rek-O-Kut turntable.
Audiophile Net: \$2.40

See Pages 155-161 for additional Shure Products.



FOR
THE
CRITICAL
EAR...

WORLD ACCLAIMED SHURE

Stereo Dynetic

COMPATIBLE PHONOGRAPH CARTRIDGES

... for full dimensional realism
with record changers or transcription arms

Painstakingly tested, proved, perfected—these superb Shure Stereo Dynetic moving-magnet cartridges are designed specifically to satisfy the critical ear of the most discriminating music lover... the most exacting audiophile. They separate disc stereo sound channels with incisive clarity. They are singularly smooth throughout the normally audible spectrum... and they are superior to other separate stereo cartridges in the re-creation of clean lows, true-to-performance mid-ranges and brilliant highs. Completely compatible!

The M3D Stereo Professional Dynetic is the premium stereo phono cartridge. It reflects quality control of a high order, based on critical tolerances in all performance characteristics.

The M7D Stereo Custom Dynetic is designed for the economy-conscious consumer who wants a quality Stereo Phono Cartridge at moderate cost.

NOTE: FOR THOSE WHO PREFER MONOPHONIC CARTRIDGES WITH MONOPHONIC RECORDS, Shure offers the outstanding Model M5D Professional Dynetic.

PROFESSIONAL

Stereo Dynetic

Model M3D



SPECIFICATIONS

Channel Separation: More than 20db at 1000 cps.
Frequency Response: 20 to 15,000 cps (± 3 db).
Output Voltage: 5 mv per channel at 1000 cps.
Recommended Load Impedance: 50,000 ohms.
Compliance: Vertical, Lateral 4.0×10^{-6} centimeters per dyne.
Tracking Force: 3 to 6 grams
Inductance: 400 millihenrys.
D. C. Resistance: 400 ohms.
Terminals: 4 terminals. Adaptable to 3 terminal arms.
MOUNTING: Standard $\frac{1}{2}$ " centers.
STYLUS: .0007" diamond stylus.
Model M3D Professional Stereo Dynetic cartridge... including .0007" Diamond Stylus. Audiophile Net: \$45.00
Model N3D Stereo Stylus assembly for M3D, including .0007" Diamond. Audiophile Net: \$22.50

CUSTOM

Stereo Dynetic

Model M7D



SPECIFICATIONS

Channel Separation: More than 20db at 1000 cps.
Frequency Response: 20 to 15,000 cps.
Output Voltage: 5 mv per channel at 1000 cps.
Recommended Load Impedance: 47,000 ohms.
Compliance: Vertical, Lateral 3.5×10^{-6} centimeters per dyne.
Tracking Force: 4 to 7 grams.
Inductance: 400 millihenrys.
D. C. Resistance: 400 ohms.
Terminals: 4 terminals. Adaptable to 3 terminal arms.
MOUNTING: Standard $\frac{1}{2}$ " and $\frac{3}{16}$ " centers.
STYLUS: .0007" diamond stylus.
Model M7D Custom Stereo Dynetic cartridge... including .0007" diamond stylus. Audiophile Net: \$24.00
Model N7D Stereo Stylus assembly for M7D, including .0007" diamond. Audiophile Net: \$12.00

MONOPHONIC

Dynetic

Model M5D



SPECIFICATIONS

Frequency Response: 20 to 20,000 cps.
Sensitivity: Output at 1,000 cycles—21 millivolts for 10 cms/sec.
Recommended Load Impedance: 27,000 ohms.
Compliance: 3×10^{-6} centimeters per dyne.
Tracking Force: 2 to 6 grams.
Inductance: 350 millihenrys.
D. C. Resistance: 440 ohms.
Model M5D—has .001" diamond for use with micro-groove records, $33\frac{1}{3}$, 45 r.p.m.
Model M6S—has .003" sapphire for use with standard records, 78 r.p.m.
Model M5D Monophonic Professional Dynetic Phono Cartridge for LP records including N5D .001" diamond stylus. Audiophile Net: \$27.50
Model M6S Monophonic Professional Dynetic Phono Cartridge for 78 rpm records including N6S .003" Sapphire stylus. Audiophile Net: \$15.00
Model N5D Monophonic Professional Dynetic Stylus with .001" diamond tip. Audiophile Net: \$16.50
Model N6S Monophonic Professional Dynetic Stylus with .003" sapphire tip. Audiophile Net: \$5.00

SHURE BROTHERS, INC., EVANSTON, ILLINOIS, U.S.A.

WHEN REPLACING STYLUS, use only genuine Shure precision-made stylus. Inferior imitations can seriously downgrade the performance of Shure Cartridges.

Printed in U.S.A.

See Pages 155-161 for additional Shure Products.

CRYSTAL and CERAMIC PICKUP CARTRIDGES

Fine Groove Cartridges For 33 1/3, 45 RPM Records

MODEL NO.	ILLUS-TRATION	TYPE	LIST PRICE	OUTPUT LEVEL	MIN. NEEDLE FORCE	RESPONSE TO	NET WEIGHT	SHURE NEEDLE NO.
WC20 #	Fig. C	Ceramic	\$ 9.50	.58V	2 1/2-3 grams	12,000 cps	2 1/4 grams	A20S
W21F*	Fig. B	Crystal	8.90	1.5V	6 grams	10,000 cps	4 1/2 grams	A63MG
W31AR	Fig. A	Crystal	7.50	2.1V	7 grams	7,500 cps	5 1/2 grams	A53MG



Fig. A



Fig. B

"Twin-Lever" Cartridges For 33 1/3, 45 And 78 RPM Records

MODEL NO.	ILLUS-TRATION	TYPE	LIST PRICE	OUTPUT LEVEL		MIN. NEEDLE FORCE	RESPONSE TO	NET WEIGHT	SHURE NEEDLE NO.	
				MG.	STD.				MG.	STD.
WC6 \$	Fig. H	Ceramic	\$14.50	.5V	.7V	4-6 grams	15,000 cps	7 grams	A6S	
WC6TM* Top Mount	Fig. R	Ceramic	\$14.50	.5V	.7V	4-6 grams	15,000 cps	7 grams	A6S	
W9 †	Fig. J	Crystal	9.50	3.5V	5.0V	11 grams	10,000 cps	7 grams	A9	
WC10 \$	Fig. H	Ceramic	9.50	.78V	1.0V	7 grams	12,000 cps	7 grams	A10S	
WC10D \$	Fig. H	Ceramic	34.00	.78V	1.0V	7 grams	12,000 cps	7 grams	A10DS	



Fig. C



Fig. D



Fig. E

Turnover Cartridges For 33 1/3, 45, And 78 RPM Records

MODEL NO.	ILLUS-TRATION	TYPE	LIST PRICE	OUTPUT LEVEL		MIN. NEEDLE FORCE	RESPONSE TO	NET WEIGHT	SHURE NEEDLE NO.	
				MG.	STD.				MG.	STD.
W22	Fig. D	Crystal	\$ 9.50	1.2V	1.4V	8 grams	10,000 cps	4 1/2 grams	A65MG	A61A
W22-T	Fig. E	Crystal	10.00	1.2V	1.4V	8 grams	10,000 cps	12 1/2 grams	A65MG	A61A
WC24	Fig. F	Ceramic	8.75	0.6V	0.6V	8 grams	7,000 cps	4 1/2 grams	A53MG	A52A
WC24-T	Fig. G	Ceramic	9.25	0.6V	0.6V	8 grams	7,000 cps	12 1/2 grams	A53MG	A52A
WC25	Fig. K	Ceramic	9.50	.65V	.7V	8 grams	7,000 cps	6 grams	A65MG	A61A
W72 †§	Fig. L	Crystal	8.50	3V	4V	10-15 grams	5,000 cps	7 grams	A69A	A70A



Fig. F



Fig. G



Fig. H



Fig. I

All Purpose Single Needle Cartridges For 33 1/3, 45, 78 RPM Records

MODEL NO.	ILLUS-TRATION	TYPE	LIST PRICE	OUTPUT LEVEL		MIN. NEEDLE FORCE	RESPONSE TO	NET WEIGHT	SHURE NEEDLE NO.	
				MG.	STD.				MG.	STD.
W26	Fig. B	Crystal	\$ 6.50	.87V	1.0V	8 grams	8,000 cps	4 1/2 grams	A67U	
WC38	Fig. A	Ceramic	7.50	.9V	.92V	9 grams	10,000 cps	5 1/2 grams	A58U	
W66B	Fig. O	Crystal	7.00	2.0V	2.3V	8 grams	4,500 cps	12 grams	A66U	
W70	Fig. P	Crystal	4.95	3.0V	3.8V	10-15 grams	5,000 cps	16 grams	A77U	



Fig. K



Fig. L

Standard Cartridges For 78 RPM Records

MODEL NO.	ILLUS-TRATION	TYPE	LIST PRICE	OUTPUT LEVEL	MIN. NEEDLE FORCE	RESPONSE TO	NET WEIGHT	SHURE NEEDLE NO.
W56N**	Fig. N	Crystal	\$10.00	4.3V	1 oz.	10,000 cps	12 grams	A68D
W68 †	Fig. O	Crystal	7.50	1.6V	1 oz.	4,500 cps	Dual Wt. 25 grams or 12 grams	A62A
W78 †	Fig. M	Crystal	5.55	4.0V or 2.0V	1 oz.	6,000 cps	Dual Wt. 25 grams or 12 grams	None



Fig. M



Fig. N



Fig. O



Fig. P



Fig. R

*With .453 Mount for Oak Changer.
 **Cutter-Cartridge for Wilcox-Gay "Recordette." Equipped with bifurcated needle.
 †Dual-Weight Cartridge. With weight-slug, net weight 25 grams. Without weight-slug, net weight 12 grams.
 ‡Dual-Weight Cartridge. Has same weight-slug as Model W68, with same net weight differential. In addition, Model W78 has capacitor, furnished as accessory. Without capacitor, output is 4.0 volts. With capacitor, output is 2.0 volts.
 §Not a turnover type. Needles are set into tracking position by ingenious "Twin Lever" needle shift system.
 ¶For Columbia 16 2/3 Highway Hi-Fi Records.
 †Model W9 has Capacitor furnished as accessory. Without Capacitor output is as shown above. With Capacitor output is 1.7 volts for 33 1/3, 45 RPM; 2.5 volts for 78 RPM.
 ‡Model W72 has a slip-on Capacitor furnished as an accessory. With the Capacitor, output is 2 volts for 78 RPM, 1.5 volts for 33 1/3, 45 RPM. Without the Capacitor, output is 4 volts for 78 RPM, 3 volts for 33 1/3, 45 RPM.
 Δ Top mounting for Magnavox cartridge replacement.

Note: For replacement information, write for free Replacement Manual No. RM-59.

See Pages 155-161 for additional Shure Products.

SHURE

MAGNETIC RECORDING HEADS

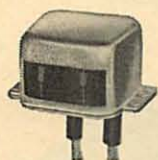


Fig. A
Record-
Playback-
Erase

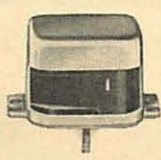


Fig. B
Record-
Playback

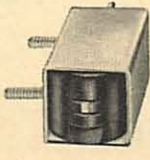


Fig. C
Record-
Playback
Also Erase

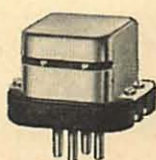


Fig. D
Record-
Playback-
Erase



Fig. E
Record-
Playback-
Erase

TECHNICAL DATA—MAGNETIC TAPE AND WIRE RECORDING HEADS

Model	Recording Speed	Bias & Erase Frequency	Std* Recording Level	Operating Bias Current	Erase** Current	Impedance Erase Coil	Impedance Recording Coil
815 (Fig. A)	3.75" per sec 7.5" per sec 3.75" per sec	25KC 50KC DC	.05 ma .05 ma .095 ma	1.25 ma 1.5 ma .35 ma	27 ma 30 ma 25 ma	750 ohm at 25KC 1300 ohm at 50KC 12 ohm	1450 ohm at 1000 cps 1450 ohm at 1000 cps 180 ohm
815H (Fig. A)	3.75" per sec 3.75" per sec	25KC DC	.03 ma .056 ma	.72 ma .24 ma	27 ma 25 ma	750 ohm at 25KC 12 ohm	5800 ohm at 1000 cps 556 ohm
816 (Fig. B)	3.75" per sec 3.75" per sec	25KC DC	.03 ma .07 ma	.80 ma .26 ma			5500 ohm at 1000 cps 556 ohm
817 (Fig. C)	3.75" per sec 3.75" per sec	25KC DC	.06 ma .175 ma	3.6 ma .42 ma			1860 ohm at 1000 cps 180 ohm
TE2 (Fig. C) Without case	3.75" per sec 3.75" per sec 3.75" per sec	25KC 50KC DC			30 ma 35 ma 25 ma	750 ohm at 25KC 1300 ohm at 50KC 12 ohm	
TR21C (Fig. E)	7.5" per sec	75KC	.040 ma	1.0 ma			4000 ohm at 1000 cps

*Determined in accordance with RTMA Standard REC-134 August 1949.

**Erase current chosen for 50 db Erasure of Saturated 400 C.P.S. Recording.

Recording Medium—Minnesota Mining & Mfg. Co., Tape No. 111

5RBA1. Pressure Pad Force (Area—.025 sq. in.) Two Ounces.

RECORDING
HEAD
DIMENSIONS

Models 815, 815H (Fig. A) & 816 (Fig. B) Width 1.240" Depth 1.031" Height .695"	Models TE2 (Fig. C) Width .516" Depth .830" Height .715"
Model 817 (Fig. C) Width .552" Depth .830" Height .765"	Model TR21C (Fig. E) Width .600" Depth .821" Height .775"

NUMERICAL LIST OF SHURE TAPE HEADS USED IN ORIGINAL EQUIPMENT

MODEL	ILLUSTR.	LIST PR.	DESCRIPTION	OPERATING DATA
812	Fig. D	\$20.00	Wire Recording Head.	Not Shown
815	Fig. A	15.00	Upper track recording. Low impedance record-playback coil.	See 815
815H	Fig. A	15.00	Upper track recording. High impedance record-playback coil.	See 815H
816	Fig. B	12.00	Upper track recording. High impedance record-playback coil.	See 816
817	Fig. C	9.00	.093" record track width. Low impedance record-playback coil.	See 817
TR5B	Fig. A	17.00	Upper track recording with 14-inch completely insulated leads. Cinch Plug attached.	See 815*
TR5N	Fig. A	16.00	Special Shield. Special Leads. Special Plug.	See 815*
TR5Z-2	Fig. A	18.50	Upper track recording. High impedance record-playback coil.	See 815H
TR6	Fig. B	12.00	Lower track recording. Low impedance record-playback coil.	Not Shown
TR6G	Fig. B	12.00	Lower track recording. High impedance record-playback coil.	See 816**
TR6H	Fig. B	12.00	Upper track recording. Low impedance record-playback coil.	Not Shown
TR16	Fig. C	9.00	.093" record track width. High impedance record-playback coil.	Not Shown
TR26	Fig. C	11.00	.093" record track with (1/4 mil gap). High impedance record-playback coil.	Not Shown
TE2	Fig. C	7.00	Erase head. .116" erase track width.	See TE2
TR21C	Fig. E	14.00	.093" Record Track Width. Record-Playback Coil.	See TR21C

*Operating data only. 815 does not replace.

**Operating data only. 816 does not replace.

Note: For replacement information, write for free Replacement Manual No. RM-59.

See Pages 155-161 for additional Shure Products.