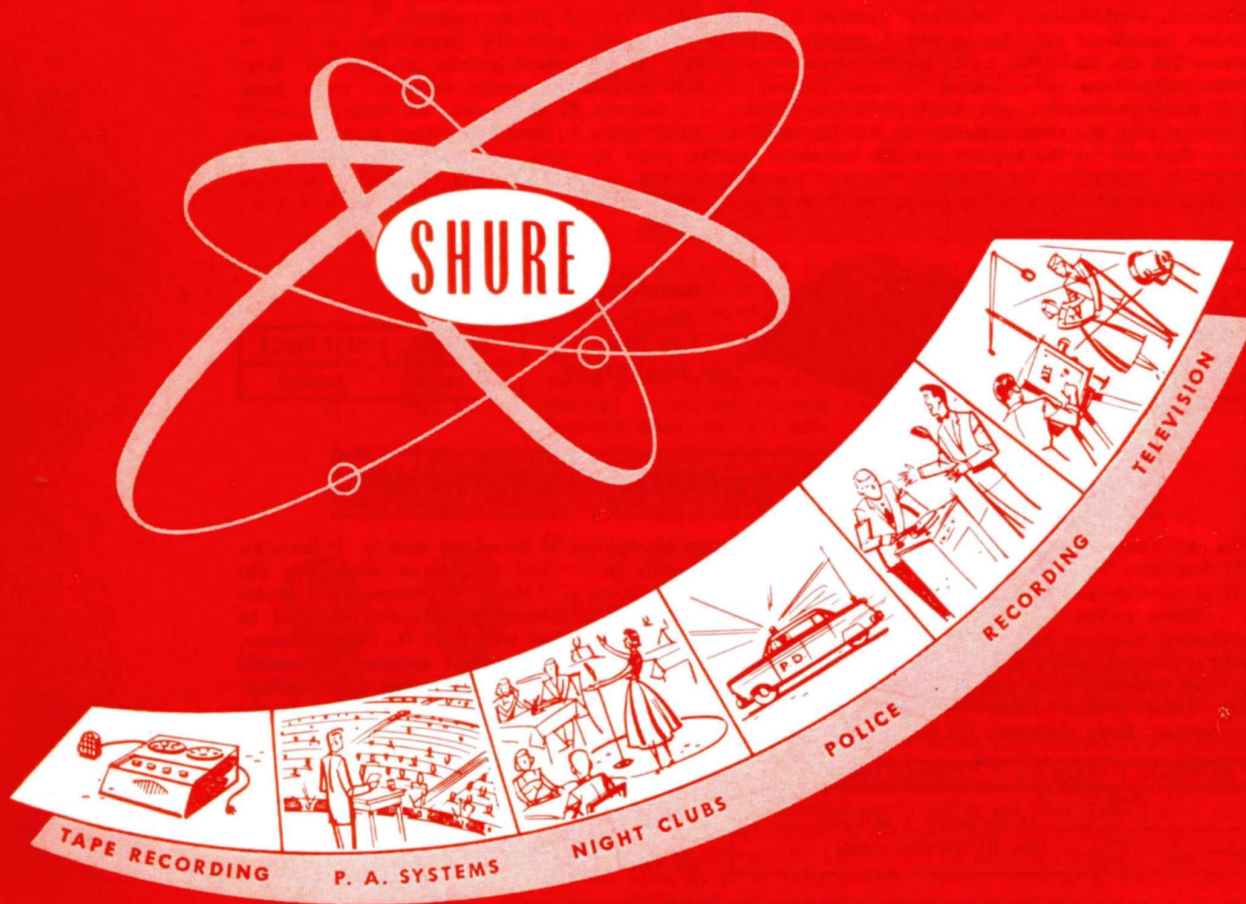


SHURE GENERAL CATALOG No. 55B

MICROPHONES • PHONO PRODUCTS • TAPE RECORDING HEADS

The Nucleus of Superb Voice and Music Reproduction



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STUDIO MICROPHONES

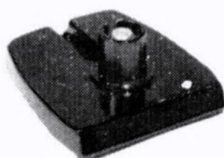
UNI-DIRECTIONAL RIBBON MICROPHONE



Model "333"
Concert-Line

Here is the Concert-Line "333," a truly fine and rugged microphone created for discriminating users with the most exacting professional requirements. Here, indeed, is a major advance in microphone development and design! This small, ultra-cardioid "333" is highly recommended for motion-picture studios, TV studios, radio stations, professional recording, and all other uses where quality requirements are of the highest. Here is performance never before achieved in such a small and slender microphone! Here is ruggedness and reliability! Here is matchless beauty and striking design to appeal to users who demand the finest! The "333" is ultra-cardioid, uni-directional—reduces the pickup of random noise energy by 73%—prevents the pickup of moving props, scuffling feet and moving "dollies," so common when conventional broadcast microphones are used. Following are the features that make the "333" Concert-Line so outstanding in performance, so dependable in operation: (1) patented, world-famous "Uniphase" system; (2) a true ultra-cardioid pickup pattern; (3) horn-loaded ribbon transducer provides extended smooth response, production uniformity guaranteed to plus or minus 2½ db, 30-15,000 c.p.s.; (4) multi-impedance switch; (5) voice-music switch; (6) anti-"Pff" filter screen; (7) Shure self-adjusting "lifetime" swivel; (8) high output; (9) sturdy, one-piece metal case; (10) vibration-isolation unit mounted in live rubber; (11) Cannon XL connector. All these important features, plus the striking design of the Concert-Line "333," make it ideal for critical studio applications that call for the highest possible broadcast quality, small size and matchless beauty—plus the ability to withstand the rough work-a-day handling by the sound crew. The "333" has two-tone "Baked Bronze" non-reflecting finish. Head dimensions: Width, 1 1/8"; height, 3 9/16"; depth, 1 3/4".

IMPEDANCE TABLE	OUTPUT LEVEL
Low—50 ohms	60 db below 1 Milliwatt per 10 microbar signal
Medium—150 ohms	59 db below 1 Milliwatt per 10 microbar signal
High-Medium—250 ohms	



Model S33
Broadcast
Desk Stand
List Price: \$15.00

MODEL	LIST PRICE
"333"	\$250.00

OMNI-DIRECTIONAL DYNAMIC MICROPHONE



Model "525"
Concert-Line

The new Concert-Line "525" is an exceptionally fine probe microphone of broadcast quality. It features: (1) frequency response 40-15,000 c.p.s., production uniformity guaranteed to plus or minus 2½ db; (2) a moving-coil mounted in a highly efficient magnetic structure; "Alnico V" magnet; (3) multi-impedance switch; (4) high output; (5) long life "Duracoustic" diaphragm—specially designed to withstand moisture, heat, cold and physical shock. The "525" is furnished with a 20 ft., two-conductor, rubber-covered, shielded cable with Cannon XL-3-11 connector attached; swivel adapter; adjustable lavalier assembly (cord and clip), and a belt clip assembly. The "525" Concert-Line has a non-reflecting "Baked Bronze" finish—which makes it blend into the background, giving the spotlight to the performer. Body diameter, 1"; length, 8 17/32".

IMPEDANCE TABLE	OUTPUT LEVEL
50 ohms	61 db below 1 Milliwatt per 10 microbar signal
150 ohms	
250 ohms	

Model S33
Broadcast
Desk Stand
List Price: \$15.00

MODEL	LIST PRICE
"525"	\$200.00

BI-DIRECTIONAL GRADIENT MICROPHONE



Model "300"
Concert-Line

This rugged, high fidelity, multi-impedance microphone is widely used for television, radio broadcasting, professional recording and high-fidelity uses. The "300" reduces reverberation and the pickup of random noise by 66%. The "300" combines the best features of conventional velocity microphones with advanced acoustic design—including an anti-"PFF" filter screen. Its bi-directional polar pattern is effective over a broad frequency range. It provides sound pickup at the front and rear of the microphone, but greatly reduces pickup at the sides. One of the outstanding features of the "300" is the fact that the microphone can be placed at a 73% greater distance from the performer than is possible with omni-directional microphones! The "300" has a non-reflecting "Baked Bronze" finish, so it blends into the background, gives the spotlight to the performer. The "300" has a readily accessible Voice-Music switch, vibration-isolation unit mounted in live rubber, and a multi-impedance switch, providing low medium and high impedance. Extended response, production uniformity guaranteed to plus or minus 2½ db, 40-15,000 c.p.s. Dims.: Ht., 6"; Wth., 1 7/16"; Depth, 1 3/32".

IMPEDANCE TABLE	OUTPUT LEVEL
L—35-50 ohms	59 db below 1 Milliwatt per 10 microbar signal
M—150-250 ohms	60 db below 1 Milliwatt per 10 microbar signal
H—High	57 db below 1 volt per microbar

Model S33
Broadcast
Desk Stand
List Price: \$15.00

MODEL	LIST PRICE
"300"	\$150.00

SHURE**GRADIENT' AND DYNAMIC MICROPHONES**

Model "530"
Slendyne



Model "315"
Gradient



Model 55S
"Small Unidyne"

"Small Broadcast"
Model 556S

OMNI-DIRECTIONAL DYNAMIC MICROPHONE

The Slendyne "530" is the most versatile of all public-address probe microphones because it can be held in the hand; used on a desk stand; placed on a floor stand; or hung around the neck to provide complete freedom of the performer's hands. The Slendyne features: (1) frequency response 60-15,000 c.p.s. (2) a moving coil mounted in a highly efficient magnetic structure, with "Alnico-V" magnet (3) dual-impedance switch for high or low impedance (4) high output (5) "Duracoustic" diaphragm—specially-designed to withstand moisture, heat, cold and physical shock. The "530" is furnished with an on-off switch plate assembly which requires no wiring; swivel adapter; lavalier and belt clip assembly, and a 20', 2-conductor, rubber-covered shielded cable with Cannon XL-3-11 connector attached. The Slendyne is a striking-looking microphone with a beautiful black and gold finish. It imparts glamour to any sound system with which it is used. Dimensions: body diameter, 1"; length, 7 11/32".

IMPEDANCE TABLE	OUTPUT LEVEL
L—50-250 ohms	59 db below 1 Milliwatt per 10 microbar signal
H—High	58 db below 1 volt per microbar

Model 533B (Black)
Slendyne
Desk Stand
List Price: \$15.00

MODEL	LIST PRICE
"530"	\$110.00

BI-DIRECTIONAL GRADIENT' MICROPHONES

This rugged, high-fidelity, multi-impedance microphone is recommended for highest-quality general purpose uses! The Gradient provides a bi-directional pickup pattern—permitting greater performer freedom (performers can stand at a 73% greater distance from the microphone!) The "315" picks up voice and music from front and back—is "dead" at the sides. Reduces reverberation and the pickup of distracting random noises by 66%! Has a Multi-Impedance switch. Response is 50 to 12,000 c.p.s. Permits the sound system to operate at a level almost 6db higher than is possible with omni-directional microphones! Finished in rich, soft chrome. The "315" is "PFF"-proof—can be used in outdoor drafts and moderate breezes! Dims: Ht., 6"; Wth., 1 7/16"; Dpth., 1 3/32".

IMPEDANCE TABLE	OUTPUT LEVEL
L—35-50 ohms	59 db below 1 Milliwatt per 10 microbar signal
M—150-250 ohms	60 db below 1 Milliwatt per 10 microbar signal
H—High	57 db below 1 volt per microbar

MODEL	LIST PRICE
"315"	\$85.00

UNIDIRECTIONAL DYNAMIC MICROPHONES

The "Small Unidyne" are the largest selling microphones throughout the world. A sturdy construction provides immunity of the moving coil system to abnormal atmospheric conditions and severe mechanical shock. Model "55S" is highly recommended for fine-quality public address; theater-stage sound systems; recording and remote broadcasting. Is widely used for fixed station use in the police, fire, and transportation services. Model "556S" is recommended for studio broadcasting, television use, and professional recording. Has Cannon XL connector and vibration-isolation unit. Both models reduce the pickup of random noise by 67%; have smooth response from 40 to 15,000 c.p.s.; are supplied with a 20-ft., high quality cable and plug assembly. Both models have the world-famous, patented "Uniphase" system.

IMPEDANCE TABLE	OUTPUT LEVEL
L—35-50 ohms	59.4 db below 1 Milliwatt per 10 microbar signal
M—150-250 ohms	60.1 db below 1 Milliwatt per 10 microbar signal
H—High	60.5 db below 1 volt per microbar



Multi-Impedance
Switch on Models
"55S", "556S", "51",
"300", "315"

MODEL	LIST PRICE
556S	\$120.00
55S	\$ 79.50



Model "51"
Sonodyne

MULTI-IMPEDANCE HIGH OUTPUT DYNAMIC

The "Sonodyne" is ideal for all general purposes, including public address, wire and tape recording, and similar applications. It is widely used by bands, instrumentalists, and professional recording artists because of its outstanding reproduction of both voice and music. Widespread usage by home users of tape recorders indicates that the "Sonodyne" is the ideal high-quality, moderately-priced replacement for the conventional microphone supplied with tape recorders. Has built-in receptacle and a 15-ft., two-conductor shielded cable with microphone plug attached. Satin chrome finish. Model "51"

List Price: \$49.50

IMPEDANCE TABLE	OUTPUT LEVEL
L—35-50 ohms	53.0 db below 1 Milliwatt for 10 microbar signal
M—150-250 ohms	52.5 db below 1 Milliwatt for 10 microbar signal
H—High	52.0 db below 1 volt per microbar

CRYSTAL MICROPHONES

SHURE

THE NEW "SLIM-X" ALL-PURPOSE MICROPHONE

FOR:

- Low Cost P.A. Systems
- Home Recording
- Hams
- General Purpose



On S38
Desk Stand



On S38
Desk Stand
(With A25
Swivel)



On Floor Stand



In the Hand

The new "777" Slim-X Microphones are rugged little microphones weighing only 6 ounces! They are designed for good-quality voice and music reproduction. Their versatility and "hand-ability" make them ideal for use by lecturers, announcers, instructors, and Hams; for audience participation shows; carnivals; panel and quiz shows; and use with home-recorders. When mounted on either cradle or swivel, the "777" can be removed in a flash (no tools

necessary)—simply by lifting it out of the holder. This makes it an ideal "walk-around" hand-held microphone.

TECHNICAL INFORMATION: Smooth frequency response—60 to 10,000 c.p.s.; Moisture-proof "Metal Seal" crystal for long operating life; high impedance; 7' single-conductor cable, disconnect type. Dimensions: (Microphone only) Length, 4½"; Diameter, 1". Finish: Rich satin chrome overall.

Note: All Models are furnished with Lavalier Cord, for suspension of microphone around neck.

"SLIM-X" ASSEMBLIES

MODEL 777A includes 777 Microphone; A-25 Swivel Adaptor; S-38 Desk Stand; Lavalier Cord.
List Price: \$31.00

MODEL 777SA includes 777S Microphone; A-25 Swivel Adaptor; S-38 Desk Stand; Lavalier Cord.
List Price: \$33.00

ACCESSORIES FOR "777"

MODEL S38 STAND is a heavy die-cast base. Includes metal screw machine stud for connecting microphone adaptor to stand base.

Model: S38 List Price: \$3.50

MODEL A25 SWIVEL ADAPTOR features a long-life, high-quality swivel connector. Is lined with a long-life nylon sleeve—for noise-free and scratch-free insertion and removal of microphone.

Model: A25 List Price: \$5.50

Model	Output	List Price
777		23.00*
777A	62db below	31.00
777S With Switch	1 volt per microbar	25.00*
777SA With Switch		33.00

*(Price includes cradle for mounting on stand.)



Fig. A



Fig. B



Fig. C



Fig. D



Fig. E

"MONOPLEX" (Fig. A)

The only Super-Cardioid Crystal Microphone made—far superior to conventional Crystal Microphones! Excellent for high-quality public address, communications, recording, and similar applications. The 737A operates under adverse conditions of background noise and reverberation—where a conventional microphone would be practically useless! Reduces pickup of random sound by 73%! Moisture-proofed "Metal Seal" crystal for long operating life. Case pivots at rear, can be pointed toward desired sound or upwards for horizontal plane pickup. Has 15 ft. shielded cable. Rich satin chrome finish. High impedance.

MODEL	OUTPUT	LIST PRICE
737A	54.0 db below 1 volt per microbar	\$46.00

THE "REX" (Fig. B)

Its low price makes this hand-held microphone a natural for "Hams" and low-cost public address systems. A rugged unit designed for high speech intelligibility. Saves extra costs, as it needs no desk stand! Has

a broad base, complete with stand adapter for mounting on floor stand. Sits firmly on a table top without tipping over. Die cast case. Frequency response 60 to 9,000 c.p.s. 5' shielded cable. Beautiful Bergundy-red metallic finish. Only 2½" wide, 3¼" high, 1½" thick. High impedance.

MODEL	OUTPUT LEVEL	LIST PRICE
710A	50 db below 1 volt per microbar	\$12.00
710S (with switch)	50 db below 1 volt per microbar	\$14.00

MODEL 707A (Fig. C)

Ideal for low-cost P.A. systems, amateur 'phone transmitters and similar applications. Good-quality performance at low cost. Has typical semi-directional pickup. Has 7 ft. shielded cable. High impedance. Pearl Gray case with rich satin chrome finish on front grille. Diameter 2½".

Model 707A designed to be used with Shure Model S34B or S36A Desk Stands (see page 6).

MODEL	OUTPUT	LIST PRICE
707A	51.0 db below 1 volt per microbar	\$18.00

LAPEL MICROPHONE (Fig. D)

Specially designed unit widely used by lecturers, instructors, speakers, etc. High speech intelligibility. Response from 40 to 6,000 c.p.s. 1⅞" diameter. Has lapel clip. 20-foot shielded single-conductor cable. High impedance.

MODEL	OUTPUT LEVEL	LIST PRICE
76B	57db below 1 volt per microbar	\$29.00

STRATOLINER (Fig. E)

An expensive-looking crystal microphone at moderate cost. Wide-range response for good reproduction of either voice or music. Placed horizontally, the 708A is semi-directional; used vertically it becomes non-directional. Swivel permits 90° tilting of microphone. 7 ft. shielded cable and plug assembly. High impedance. Pearl Gray finish.

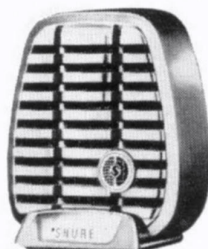
MODEL	OUTPUT LEVEL	LIST PRICE
708A	51.0 db below 1 volt per microbar	\$31.00

NOTE: Models 737A, 710 Series 707A, 708A are designed to be used with Model S34B or S36A Desk Stands. (See page 6.)

CONTROLLED RELUCTANCE MICROPHONES

SHURE

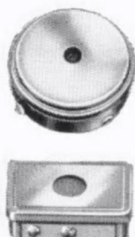
THE "HERCULES"



The Hercules is a hand-held unit, ideal for general purpose use in tropical countries and in all coastal areas where heat and humidity are a problem. The "510" provides the ruggedness, clear reproduction and high output for public address, communications and recording where high speech intelligibility is vital. It is recommended for Announcing; Mobile Public Address Systems; Communications; Home Recording, and High Quality Intercommunication. The Hercules can be used either Indoors or Outdoors, fits snugly in the hand, sits firmly on a desk. High impedance. Frequency response 100 to 7000 c.p.s. Furnished with 7 ft. shielded cable. Green metallic finish. Diecast case. Furnished with stand adapter. Dimensions: 2 2/3" wide, 3 1/4" high, 1 1/2" thick. Model 510 Series designed to be used with S34B or S36A Desk Stands. (See page 6.)

MODEL	OUTPUT LEVEL	IMPEDANCE	LIST PRICE
510C	52.5db below 1 volt per microbar	HIGH	\$17.00
510S (with switch)	52.5db below 1 volt per microbar	HIGH	\$19.00

"1-INCH" MICROPHONES



The MC Series of small microphones are specially designed for use in vacuum-tube devices, such as small, compact amplifiers, transmitters, dictating equipment—wherever size and weight are important factors. They also are highly recommended for use in small transistor-type devices. The MC Series Microphones are furnished with an impedance of 1000 ohms. They are rugged units immune to mechanical shock and to varying conditions of heat and humidity. Both the 1" circular unit, Model MC11, and the rectangular unit, Model MC20, are metal-cased for hum protection. They are highly recommended to engineers, technicians and "build-it-yourself" enthusiasts, because their small size and shape make them ideal for various types of custom-made devices. Model MC11 (Circular) Dimensions: diameter 1 1/64", thickness 25/64". List Price \$12.50. Model MC20 (Rectangular) Dimensions: width 10/16", thickness 5/16", length 15/16". List Price \$12.50.

THE "RANGER"

The new Shure "Ranger" is a new development of a similar magnetic unit originally housed in microphones used by the Armed Forces. The "Ranger" is especially recommended for those applications where long lines are used, and a rugged hand-held microphone is needed. It is ideal for outdoor public address (sports arenas, athletic fields), mobile communications, ham, audience participation shows, etc. The "Ranger" is designed for high speech intelligibility. Easy to use, fits snugly in the palm of the hand. Has heavy-duty single-throw, double-pole leaf-type switch for push-to-talk operation. Phosphor-bronze blades and silver contacts for maximum operating life. Model 505B is furnished with 5' four-conductor shielded cable. Frequency response is 100 to 9,000 c.p.s.

MODEL	OUTPUT LEVEL	IMPEDANCE	SHPG. WT.	CODE	LIST PRICE
505B	47.0 db below 1 milliwatt per 10 microbar signal	150-250 ohms	1 5/8 lbs.	RUDAY	\$32.00
505C	50.5 db below 1 volt per microbar	High	1 5/8 lbs.	RUDAX	\$32.00

THE "GREEN BULLET"



The "Green Bullet" is designed to provide quality music and speech reproduction at moderate cost. It is practically immune to the effects of high temperatures and humidity. It features: high output, good response, high impedance without the need of a transformer. The "Green Bullet" has a beautiful modern metallic green finish with a plated grille. Frequency response is 100 to 7000 c.p.s. Furnished with 7 ft. single-conductor shielded cable. High Impedance. The "Green Bullet" is highly recommended for those public address systems where low cost is a must, good reproduction is essential, and ruggedness is a necessity. Model 520 series designed to be used with Shure Model S34B or S36A Desk Stands. (see page 6.)

MODEL	OUTPUT LEVEL	IMPEDANCE	LIST PRICE
520	52.5 db below 1 volt per microbar	HIGH	\$21.00
520B	51 db below 1 milli- watt per 10 microbars	150-250 ohms	\$21.00

THE "DISPATCHER"



MODEL 520SL

(NOTE: Complete assembly furnished as illustrated.)

MODEL	OUTPUT	IMPEDANCE	LIST PRICE
520SL	52.5 db below 1 volt per microbar	High	\$42.50



505 SERIES

COMMUNICATIONS MICROPHONES AND ACCESSORIES

SHURE

COILED CORD SETS

Standard Copper Coiled Cord with trimmed and tinned leads. Used in "CB" and "100" Series Microphones.		
Model: C15C	Code: RUCOR	List Price: \$6.25
Tinsel Coiled Cord with Amphenol MC4M Connector for use with General Electric equipment.		
Model: C16C	Code: RUCAG	List Price: \$9.50
Tinsel Coiled Cord with spade lugs for use in Motorola equipment.		
Model: C17C	Code: RUCAJ	List Price: \$7.75
Standard Coiled Cord with Amphenol MC4M Connector for use with Motorola equipment.		
Model: C18C		List Price: \$7.75
Tinsel Coiled Cord with Amphenol MC4M Connector for use with Motorola equipment.		
Model: C19C		List Price: \$9.50

CARBON MICROPHONE CARTRIDGE



Model R10

Rugged microphone cartridge replacement for "CB", "100", and "120" Series Carbon Microphones. Furnished with necessary mounting hardware and complete installation instructions. Direct replacement for the cartridge used in the Models 101A, 101B, 101C, 102A, 102B, 102C, 120, CB10, CB10B, CB10C, SB10E, CB11, CB11B, CB12, CB12A, CB12B, CB12C, CB12D, CB12E, CB14, CB14A, CB15, CB15B, CB15C, CB15D, CB15F, CB20, CB162, 91A27 carbon microphones.

Model: R10

List Price: \$8.50

MICROPHONE ASSEMBLY

A Controlled Reluctance Microphone and Desk Stand Assembly—ideal for fixed-station used in all types of communications work. Has a built-in switch for controlling both the microphone circuit and an external relay or control circuit. Replacement for Mfrs. Model No. CR84.

Model 510MD

List Price: \$42.50



Model 510MD

MODEL "100" SERIES CARBON MICROPHONES

Used around the world for police, taxi, bus, truck, and commercial applications — more than all other makes combined! Rugged unit with clear, crisp voice response and high output. Heavy duty switch for push-to-talk performance. Furnished with bracket for wall mounting, plus coiled-cord cable. Adopted as standard microphone by G.E., Link, Motorola, R.C.A. and others for 2-way radio communications equipment. Output level: 5db below 1 volt for 100 microbar speech signal.



REPLACEMENT CHART

MANUFACTURERS MODELS	REPLACEMENT MODEL
CB10, CB10B, CB10C, CB10D, CB15, CB15D,	101C
CB10E	101E
CB12, CB12A, CB12C, CB12D	102C
CB12E	102E
CB15F	103

Model	Cable	Switch Arrangement	List Price
101C	Standard Coiled Cord 11' retracted; 5' extended	Two Wire Relay Switch normally open. (No microphone switch)	\$30.00
101E	Tinsel Coiled Cord 11' retracted; 5' extended with Amphenol MC4M Connector		\$33.00
102C	Standard Coiled Cord 11' retracted; 5' extended	Relay normally open. Microphone switch normally open.	\$30.00
102E	Tinsel Coiled Cord 11' retracted; 5' extended with spade lugs		\$33.00
103	Standard Coiled Cord 11' retracted; 5' extended with Amphenol MC4M Connector	Two Wire Relay Switch normally open. (No microphone switch)	\$31.00

CARBON "PACK" MICROPHONE

Designed for use with small portable and mobile transmitters. Only 2" in diameter and 1 1/2" thick. Has 3-conductor coiled cord, metal-spring strain relief, and Push-to-Talk switch. Has same operating characteristics as "100 Series" Carbon Microphones. Replacement for Mfrs. Model Nos. CB20, CB21.

Model 115

List Price: \$31.00



Model 115

SWITCHES AND ACCESSORIES

MICROPHONE REPLACEMENT CARTRIDGES



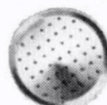
CONTROLLED RELUCTANCE

Model R5

Controlled Reluctance. Ideal for the replacement of Crystal Cartridges in Shure Cases of the Model 707A and 708A Series, where heat and humidity are a problem. Supplied with rubber mounting ring.

Model: R5 List Price: \$11.00

NOTE: Replacement for 505B and 520 is 99C86. List Price: \$11.00



CRYSTAL

Model R7

Model R7 Crystal Microphone. Available for service installation as a replacement for the cartridges in the Shure Crystal Microphones of the 707A and 708A Series, and other microphones of similar design. High output—48db below 1 volt per microbar. Cartridge supplied with rubber mounting rings and installation instructions.

Model: R7 List Price: \$8.25

CABLE-TYPE TRANSFORMER



Model A86A

Model A86A is a high quality, cable-type transformer, ideal for matching low-impedance microphone lines to high-impedance amplifier inputs (matches 35-50 and 150-250 ohm microphones of high impedance). 2-foot cable.

Model: A86A

List Price: \$17.50

TAKE-APART STAND



Model S34B

Model S34B. Handy low-cost stand for desk or hand use. One twist of handle locks it securely in base for use as a table stand, or releases handle for use in hand. Metal base, wood handle.

Model: S34B

List Price: \$3.50

"GRIP-TO-TALK SLIDE-TO-LOCK" SWITCH

Heavy-Duty Switch withstands the most severe field requirements of paging and dispatching systems. Ideal for Police, Taxi-Cab, Railroad, Airport, Bus, Truck, and all emergency communications work. Can be used with Shure connector-type crystal, dynamic and carbon microphones of any impedance. Fits handily on Shure S36A Desk Stand. Rich satin chrome finish.

Model: A88A

List Price: \$12.50

Model A88A



ON-OFF PRESS-TO-TALK SWITCHES



Model A83B. Rotary-type "On-Off" switch. Quickly attached to any cable-conductor type Shure microphone.

Model: A83B

List Price: \$9.00

Model A84B. Momentary Press-to-Talk "On-Off" switch.

Model: A84B

List Price: \$9.00

Model A85C. Momentary Press-to-Talk Relay-Type Switch.

Model: A85C

List Price: \$11.50

MODERN DESK STAND



Model S36A

Model S36A. Streamlined Desk Mount fits all Shure connector-type microphones. Adapter provided for mounting other type microphones. Ideal for use with A88A switch.

Model: S36A

List Price: \$6.50

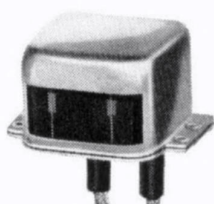
SHURE**MAGNETIC TAPE AND WIRE RECORDING HEADS**

Fig. A
RECORD-PLAYBACK-ERASE



Fig. B
RECORD-PLAYBACK

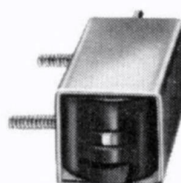


Fig. C
RECORD-PLAYBACK



Fig. D
ERASE



Fig. E
RECORD-PLAYBACK-ERASE

MAGNETIC TAPE RECORDING HEADS**TYPICAL OPERATING DATA**

MODEL	815 (FIG. A)			815H (FIG. A)			816 (FIG. B)		817 (FIG. C)		TE2 (FG. D)		
Recording Speed	3.75" per sec.		7.5"	3.75" per sec.			3.75" per sec.		3.75" per sec.		3.75" per sec.		
Bias & Erase Freq.	25KC	DC	50KC	25KC	DC		25KC	DC	25KC	DC	25KC	50KC	DC
Std.* Recording Level	.05 ma	.095 ma	.05 ma	.03 ma	.056 ma		.03 ma	.07 ma	.06 ma	.175 ma	—	—	—
Operating Bias Current	1.25 ma	.35 ma	1.5 ma	.72 ma	.24 ma		.80 ma	.26 ma	3.6 ma	.42 ma	—	—	—
Erase** Current	45 ma	35 ma	55 ma	45 ma	35 ma	—	—	—	—	—	45 ma	55 ma	35 ma
Impedance Erase Coil	750 ohm at 25KC	12 ohm	1300 ohm at 50 KC	750 ohm at 25KC	12 ohm	—	—	—	—	—	80 ohm at 25KC	1250 ohm at 50KC	12 ohm
Impedance Recording Coil	1450 ohm at 1000 cps	180 ohm	1450 ohm at 1000 cps	5800 ohm at 1000 cps	556 ohm	5500 ohm at 1000 cps	556 ohm	1860 ohm at 1000 cps	180 ohm	—	—	—	—

*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)
 Width 1.240" Depth 1.031" Height .695"

Model 816 (Fig. B)
 Width 1.240" Depth 1.031" Height .695"

Model 817 (Fig. C)
 Width .552" Depth .830" Height .765"

Model TE2 (Fig. D)
 Width .516" Depth .830" Height .715"

NUMERICAL LISTING OF SHURE TAPE HEADS USED IN ORIGINAL EQUIPMENT

MODEL	ILLUSTR.	LIST PR.	DESCRIPTION	OPERATING DATA
812	Fig. E	17.00	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	Not Illustr.	16.00	Special Shield. Special Leads. Special Plug.	See 815*
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.	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
TR14	Not Illustr.	9.00	Narrow track (.014"). Low impedance record-playback coil.	Not shown
TR26	Fig. C	11.00	.093" record track width (1/4 mil gap). High impedance record-playback coil.	Not shown
TE2	Fig. D	7.00	Erase head.	See TE2
TE10	Not Illustr.	7.00	Erase head.	Not shown

*Operating data only. 815 does not replace.
 **Operating data only. 816 does not replace.

MAGNETIC RECORDING HEAD REPLACEMENT CHART

(INCLUDING MFRS. EQUIPMENT BY DESCRIPTION AND MODEL NO. AND THE SHURE REPLACEMENT MODEL NO.)

MANUFACTURER	TRADE OR BRAND NAME	MFRS. EQUIPMENT MODEL NO.	SHURE HEAD USED	REPLACE WITH
AMPLIFIER CORP. OF AMERICA	MAGNEMITE	610B	TR6	TR6
AMPLIFIER CORP. OF AMERICA	MAGNEMITE	610C	TR6	TR6
AMPLIFIER CORP. OF AMERICA	MAGNEMITE	610TD	TR6	TR6
AMPLIFIER CORP. OF AMERICA	ELECTRO-MAGNEMITE		TR5	815
AMPLIFIER CORP. OF AMERICA	MAGNEMASTER	815	TR5	815
AMPRO		730	TR16	TR16
AMPRO		731	TR16	TR16
AMPRO		731B	TR16	TR16
AMPRO CORPORATION	AMPRO	730	TR6C	816
AMPRO CORPORATION	AMPRO	731	TR6C	816
BELL SOUND SYSTEMS, INC.	RE-CORD-O-FONE	RT-65B	TR5	815
CRESCENT IND.		903	TR5N	TR5N
CRESCENT IND.		907	TR5N	TR5N
CRESCENT IND.		9037	TR5N	TR5N
CRESCENT IND.		2900	TR5N	TR5N
FEDERAL MFG. & ENG.	FME	37B	TR5C	815H
THE GENERAL INDUSTRIES CO.		250	TR6	TR6
MARK SIMPSON MFG CO., INC.	MASCO	R-3		**816
MARK SIMPSON MFG CO., INC.	MASCO	M-60 (Mechanism)		**816
MARK SIMPSON MFG CO., INC.	*MASCO	375		**816
MITCHELL MFG. CO.		1290	TR5N	TR5N
PREMIER ELECTRONIC LABS.	TAPESONIC	70-B	TR16 and TR16A	TR16 and 817
R. C. A.	THE EXECUTIVE	SRT-403	TR16A	817
R. C. A.	THE SENIOR	SRT-402	TR16A	817
R. C. A.	THE DELUXE	SRT1401	TR16A	817
REVERE CAMERA CO.		T-1100	TR5B	TR5B
REVERE CAMERA CO.	REVERE	T-700 (T-70163)	TR5B	TR5B
REVERE CAMERA CO.	REVERE	T-10 (T-70167)	TR5B	TR5B
REVERE CAMERA CO.	REVERE	TR-800 (T-77163)	TR5B	TR5B
REVERE CAMERA CO.	REVERE	TR-20 (T-77167)	TR5B	TR5B
REVERE CAMERA CO.	REVERE	T-100	TR5D	815
REVERE CAMERA CO.	REVERE	TR-200	TR5D	815
REVERE CAMERA CO.	REVERE	T-500	TR5K	815H
REVERE CAMERA CO.	REVERE	TR-600	TR5K	815H
TAPEMASTER INCORPORATED	TAPEMASTER	TH-21 (Mechanism)	TR5L	815H
TAPEMASTER INCORPORATED	TAPEMASTER	PT-121	TR5L	815H
TAPEMASTER INCORPORATED	TAPEMASTER	TH-25 (Mechanism) "B-Wind"	TR5L	TR5L
TAPEMASTER INCORPORATED	TAPEMASTER	PT-125 (TH-25 Mech.) "B-Wind"	TR5L	815H
TELECTRO INDUSTRIES INC.	TELECTRO	TR-48	TR16	TR16
SONOGRAPH LTD.	SONOGRAPH	C-1	TR5	815
SONOGRAPH LTD.	SONOGRAPH	C-2	TR5	815
SONOGRAPH LTD.	SONOGRAPH	C-3	TR5	815
SONOGRAPH LTD.	SONOGRAPH	C-3A	TR5	815
SONOGRAPH LTD.	SONOGRAPH	C-4	TR5	815
U. S. TIME CORP.	TIMEX		TR14	TR14
V-M CORP.	TAPE-O-MATIC	700	TR26	TR26
WILCOX-GAY CORPORATION	RECORDIO	2A10B	TR16	TR16
WILCOX-GAY CORPORATION	RECORDIO	3A10	TR16	TR16
WILCOX-GAY CORPORATION	RECORDIO	3A11	TR16A	817
WILCOX-GAY CORPORATION	RECORDIO	1C10	TR6	TR6
WILCOX-GAY CORPORATION	RECORDIO	3C10	TR6	TR6
WILCOX-GAY CORPORATION	RECORDIO	9C10	TR6	TR6

**Contact MARK SIMPSON Mfg. Co. for Required Circuit Information and Special Mtg. Plate.

CARTRIDGE REPLACEMENT CHART

SHURE MODEL NO.		SHURE REPLACEMENT		SHURE MODEL NO.		SHURE REPLACEMENT		ASTATIC MODEL NO.		SHURE REPLACEMENT		WEBSTER MODEL NO.		SHURE REPLACEMENT	
P30		W68		PN30		WC33B		L-76A		W78		N7P		W78	
P30B		W68		PN30S		WC33B		L-76AS		W78		N7P-1		W78	
P30C		W68		PN31S		WC33B		L-76S		W78		N7P-2		W78	
P30D		W68		PN88		W58HS		L-82		W78		N7P-3		W78	
P30E		W60HS		PN88S		W58HS		L-82A		W78		N8		W78	
P30G		W68		PN89		W58HS		L-92A		W78		N8-1		W78	
P30HS		W60HS		PN89D		W58HS		L-92-33		W53MG		N8-2		W78	
P30S		W68		PN89E		W58HS		LP-6		W68		N8P		W78	
P30W		W68		PN89S		W58HS		LP-21		W68		N9		W78	
P35		W78		PS20		W36B		LP-23		W68		N10		W78	
P35S		W78		W21A		W31AR		LT1-M		W68		N10-1		W78	
P37		W66B		W21AR		W31AR		LT1-MA		W68		N10-2		W78	
P37A		W66B		W21E		W21F		LT2-M		W68		N10-3		W78	
P37C		W66B		W22A		W22AB		LT2-MA		W68		N10-4		W78	
P37CA		W66B		W23A		W23B		LT3-M		W68		N10-5		W78	
P70		W23B		W26A		W26B		LT3-MA		W68		N10-6		W78	
P70A		W23B		W40A		W78		LT4-AG		W66B		N10-7		W78	
P71		W26B		W42A		W78		LT5-AG		W66B		N10P		W78	
P71A		W26A		W42B		W78		MLP-1		WC33B		N10P-1		W78	
P71B		W26B		W42BH		W78		MLP-1J		WC33B		N10P-2		W78	
P71C		W26B		W42H		W78		MLP-2		W68		N10P-3		W78	
P71CA		W26A		W56A		W78		MLP-3		WC33B		N10P-4		W78	
P72		W22AB		W56PN		W58HS		Nylon 1-J-PN		WC33B		N10P-5		W78	
P72A		W22AB		W56R		W56N		Nylon 1-M-PN		WC33B		N10P-6		W78	
P72AF		W22AB		W57A		W78		PT		W68		N10P-7		W78	
P72AFV		W22AB-T		W57AN		W68		QC-J		WC33B		N-11		W78	
P72T		W22AB-T		W58A		W78		QT-J		WC33B		N11P		W78	
P72V		W22AB		W59A		W78		QT-J-PN		WC33B		Q1		W68	
P73		W31AR		W60A		W68		QT-M		WC33B		Q2		W68	
P73A		W31AR		W60B		W68		QT2-M-PN		WC33B		W5		W78	
P73AR		W31AR		W60PN		WC33B		QT3-J		WC33B		X-82		W78	
P73R		W31AR		W61B		W68		QT3-JA		WC33B		X-82CH-1		W78	
P75		W21F		W65B		W78		QT3-M		WC33B		Y-82		W78	
P75A		W21F		W65R		W56N		QT3-MA		WC33B		YN2		W58HS	
P76		W22AB		W66A		W66B		QT3-J-PN		WC33B		YN2-1		W58HS	
P76A		W22A		WC22AB		WC24		QT3-M-PN		WC33B					
P76A-T		W22AB-T		WC22AB-T		WC24-T		L-J		W68					
P76AF		W22AB		WC36B		WC38		L-M		W68					
P76AF-T		W22AB-T		WC60B		WC33B									
P76AFV		W22AB		99-180		W78									
P76AV		W22A		99-181		W78									
P76-T		W22AB-T		99-182		W78									
P76V		W22AB													
P77		W22AB													
P77A		W22A													
P77A-T		W22AB-T													
P77AV		W22AB													
P77-T		W22AB-T													
P77V		W22AB													
P79		W22AB													
P79-T		W22AB-T													
P80		W21F													
P80RA		W31AR													
P81		W26B													
P81A		W26A													
P81AD		W26B													
P81ADH		WC36B													
P81C		W26B													
P81CA		W26A													
P81D		W26A													
P81E		W26B													
P81R		W31AR													
P81RA		W31AR													
P85		W23B													
P86R		W56N													
P87		W78													
P87B		W78													
P87S		W78													
P88		W78													
P88S		W78													
P89		W78													
P89G		W78													
P89L		W56N													
P89R		W56N													
P89RE		W56N													
P89S		W78													
P90B		W78													
P90C		W78													
P90D		W78													
P90HS		W58HS													
P90S		W78													
P92B		W78													
P93		W78													
P93B		W78													
P93C		W78													
P93D		W78													
P93E		W58HS													
P93MG		W53MG													
P93S		W78													
P94		W78													
P94B		W78													
P94E		W58HS													
PC25NA		WC10													
PC45NA		WC10													
PC45NE		WC10D													
PC9		WC33B													
PC10		WC38													
PC11		WC31AR													
PC12		WC38													
PC13		WC31AR													
PC13A		WC38													
PC14		WC33B													
PC25NE		WC10D													
PC30		WC33B													
PC40		WC24													
PC40C-T		WC24-T													
PC40-T		WC24-T													
PC41		WC24													
PC41-T		WC24-T													
PC72V		WC24													

CRYSTAL AND CERAMIC PICKUP CARTRIDGES

SHURE



Fig. A
"Direct Drive"



Fig. B
"Vertical Drive"



Fig. C
"Vertical Drive"



Fig. D
"Twin-Lever"



Fig. E
"Vertical Drive"
With
Turnover Mechanism

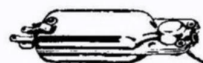


Fig. F
"Lever Type"



Fig. G
"Cutter Cartridge"

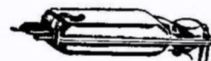


Fig. H
"Muted Stylus"



Fig. J
All-Purpose
High Output

FINE GROOVE CARTRIDGES FOR 33 $\frac{1}{3}$, 45 RPM RECORDS

MODEL NO.	ILLUSTRATION	TYPE	LIST PRICE	OUTPUT LEVEL	MIN. NEEDLE FORCE	RESPONSE TO	NET WT.	SHURE NEEDLE NO.
W21F*	Fig. B	Crystal	\$7.75	1.5V	6 grams	10,000 c.p.s.	4 $\frac{1}{2}$ grams	A63MG
W31AR	Fig. A	Crystal	6.50	2.1V	7 grams	7,500 c.p.s.	5 $\frac{1}{2}$ grams	A53MG
WC31AR	Fig. A	Ceramic	6.50	.87V	7 grams	7,500 c.p.s.	5 $\frac{1}{2}$ grams	A53MG
W53MG	Fig. F	Crystal	8.50	1.3V	6 grams	8,500 c.p.s.	12 grams	A64MG

TURNOVER CARTRIDGES FOR 33 $\frac{1}{3}$, 45, AND 78 RPM RECORDS

MODEL NO.	ILLUSTRATION	TYPE	LIST PRICE	OUTPUT LEVEL		MIN. NEEDLE FORCE	RESPONSE TO	NET WT.	SHURE NEEDLE NO.	
				MG	STD.				MG	STD.
WC10§	Fig. D	Ceramic	\$9.50	.78V	1.0V	7 grams	12,000 c.p.s.	7 grams	A10S	
WC10D§	Fig. D	Ceramic	34.00	.78V	1.0V	7 grams	12,000 c.p.s.	7 grams	A10DS	
W22A	Fig. C	Crystal	\$10.50	1.2V	1.4V	8 grams	10,000 c.p.s.	4 $\frac{1}{2}$ grams	A65MG	A61A
W22AB	Fig. C	Crystal	9.50	1.2V	1.4V	8 grams	10,000 c.p.s.	4 $\frac{1}{2}$ grams	A65MG	A62A
W22AB-T	Fig. E	Crystal	10.00	1.2V	1.4V	8 grams	10,000 c.p.s.	12 $\frac{1}{2}$ grams	A65MG	A62A
WC24	Fig. C	Ceramic	8.75	0.6V	0.6V	8 grams	7,000 c.p.s.	4 $\frac{1}{2}$ grams	A53MG	A52A
WC24-T	Fig. E	Ceramic	9.25	0.6V	0.6V	8 grams	7,000 c.p.s.	12 $\frac{1}{2}$ grams	A53MG	A52A

ALL PURPOSE SINGLE NEEDLE CARTRIDGES FOR 33 $\frac{1}{3}$, 45, 78 RPM RECORDS

MODEL NO.	ILLUSTRATION	TYPE	LIST PRICE	OUTPUT LEVEL		MIN. NEEDLE FORCE	RESPONSE TO	NET WT.	SHURE NEEDLE NO.
				MG	STD.				
W26A	Fig. B	Crystal	\$8.50	.87V	1.0V	8 grams	8,000 c.p.s.	4 $\frac{1}{2}$ grams	A67U
W26B	Fig. B	Crystal	7.50	.87V	1.0V	8 grams	8,000 c.p.s.	4 $\frac{1}{2}$ grams	A66U
W36B	Fig. A	Crystal	6.50	2.3V	2.5V	9 grams	7,000 c.p.s.	5 $\frac{1}{2}$ grams	A56U
WC38	Fig. A	Ceramic	6.50	.9V	.92V	9 grams	10,000 c.p.s.	5 $\frac{1}{2}$ grams	A58U
W66B	Fig. H	Crystal	7.00	2.0V	2.3V	8 grams	4,500 c.p.s.	12 grams	A66U
W70	Fig. J	Crystal	4.95	3.0V	3.8V	10-15 grams	5,000 c.p.s.	16 grams	None

STANDARD CARTRIDGES FOR 78 RPM RECORDS

MODEL NO.	ILLUSTRATION	TYPE	LIST PRICE	OUTPUT LEVEL	MIN. NEEDLE FORCE	RESPONSE TO	NET WT.	SHURE NEEDLE NO.
W23B	Fig. B	Crystal	\$7.75	1.1V	6 grams	8,000 c.p.s.	4 $\frac{1}{2}$ grams	A62A
WC33B	Fig. A	Ceramic	6.50	.92V	9 grams	7,000 c.p.s.	5 $\frac{1}{2}$ grams	A52A
W68†	Fig. H	Crystal	7.50	1.6V	1 oz.	4,500 c.p.s.	Dual Weight 25 grams or 12 grams	A62A
W78‡	Fig. F	Crystal	5.55	4.0V or 2.0V	1 oz.	6,000 c.p.s.	Dual Weight 25 grams or 12 grams	None
W56N**	Fig. G	Crystal	8.50	4.3V	1 oz.	10,000 c.p.s.	12 grams	A68D
W58HS***	Fig. F	Humi-Seal Crystal	6.55	1.6V	1 oz.	6,000 c.p.s.	25 grams	None
W60HS***	Fig. H	Humi-Seal Crystal	8.50	1.8V	1 oz.	4,500 c.p.s.	25 grams	A62A

*With .453 Mount for Oak Changer.

**Cutter-Cartridge for Wilcox-Gay "Recordette." Equipped with bifurcated needle.

***"Humi-Seal" Metal Wrapped Rochelle Salt Crystal ideal for Tropical Areas.

†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.

SHURE**PHONO PICKUPS • NEEDLES • REPLACEMENT KIT****PHONOGRAPH PICKUPS****STANDARD FOR 78 RPM RECORDS**

MODEL	ILLUSTRATION	LIST PRICE	OUTPUT LEVEL	NEEDLE FORCE	RESPONSE TO	SHURE CARTRIDGE USED	SHURE NEEDLE NUMBER
92H	Fig. B	\$5.50	3.5V	1 oz.	5000 c.p.s.	W42H	None
99DV	Fig. A	8.50	4.0V or 2.0V**	1½ oz.	6000 c.p.s.	W78†	None

TURNOVER FOR 33⅓, 45, 78 RPM RECORDS

MODEL	ILLUSTRATION	LIST PRICE	OUTPUT LEVEL	NEEDLE FORCE	RESPONSE TO	SHURE CARTRIDGE USED	SHURE NEEDLE NUMBER
901D	Fig. A	\$16.25	MG STD.	7 grams	10,000 c.p.s.	W22AB-T	MG STD.
			1.2V 1.4V				A65MG A62A

SINGLE-NEEDLE ALL-PURPOSE FOR 33⅓, 45, 78 RPM RECORDS

MODEL	ILLUSTRATION	LIST PRICE	OUTPUT LEVEL	NEEDLE FORCE	RESPONSE TO	SHURE CARTRIDGE USED	SHURE NEEDLE NUMBER
92U	Fig. B	\$9.75	MG STD.	8 grams	4500 c.p.s.	W66B	A66U
			2.0V 2.3V				

SHURE PICKUP FOR "WEBSTER-CHICAGO" THREE SPEED CHANGERS

MODEL	ILLUSTRATION	LIST PRICE	OUTPUT LEVEL	NEEDLE FORCE	RESPONSE TO	SHURE CARTRIDGE USED	SHURE NEEDLE NUMBER
920W	Fig. C	\$13.00	MG STD.	6 grams	10,000 c.p.s.	W22AB-T	MG STD.
			1.2V 1.4V				A65MG A62A

**Dual Voltage Cartridge 4.0V without condenser 2.0V with condenser †Remove weight-slug

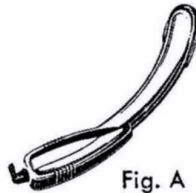


Fig. A

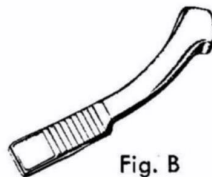


Fig. B

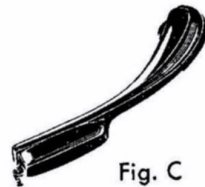


Fig. C

PHONOGRAPH PICKUP NEEDLES

MODEL	ILLUSTRATION	DESCRIPTION	LIST PRICE
A10S	Fig. B	Std. and MG Sapphire	\$3.50
A10DS	Fig. B	MG Diamond Std. Sapphire	28.00
A52A	Fig. C	Std. Osmium	1.50
A53MG	Fig. C	MG Osmium	1.50
A56U**	Fig. C	All Purpose Osmium Unipoint	1.50
A58U***	Fig. C	All Purpose Osmium Unipoint	1.50
A61A	Fig. A	Std. Sapphire†	2.50

*Standard Bent Shaft Needle Not Illustrated.

**Used in Cartridge Models PC10 and WC36B

***Used in Models PC12 and WC38

MODEL	ILLUSTRATION	DESCRIPTION	LIST PRICE
A62A	Fig. A	Std. Osmium	\$1.50
A63MG	Fig. A	MG Osmium	1.50
A64MG*		MG Osmium	2.00
A65MG	Fig. A	MG Sapphire†	2.50
A66U	Fig. A	All Purpose Osmium Unipoint	1.50
A67U	Fig. A	All Purpose Sapphire Unipoint†	2.50
A68D	Fig. D	Osm. Playback Needle—Stelite Cutting Stylus	2.50

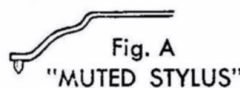


Fig. A

"MUTED STYLUS"

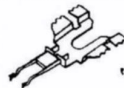


Fig. B

"TWIN-LEVER"



Fig. C

"DIRECT DRIVE"

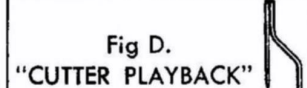
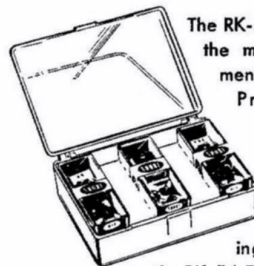


Fig. D.

"CUTTER PLAYBACK"

Crystal and Ceramic Cartridges manufactured under Shure Patents and Patents Pending.

†High-quality commercial-type synthesized sapphire specially designed for long operating life.

THE RK-54 REPLACEMENT KIT PUTS PROFITS IN YOUR TILL!

The RK-54 is beyond all doubt the most popular replacement kit on the market. Proof? Simply this—Servicemen, Service Dealers and Distributors alike broke all previous cartridge kit sales records during the past year with the RK-54. Think of it—3 cartridges (Models W22AB, W26B, W78) replace 192. This is "broadest coverage for lowest investment".

Model RK-54 Replacement Kit. List Price \$22.55

Technical Data for Models W22AB, W26B, W78

MODEL NO.	TYPE	OUTPUT LEVEL	MIN. NEEDLE FORCE	RESPONSE TO	NET WT.	SHURE NEEDLE NO.
W22AB	Crystal	MG STD. 1.2V 1.4V	8 grams	10,000 c.p.s.	4½ grams	MG STD. A65MG A62A
W26B	Crystal	MG STD. .87V 1.0V	8 grams	8,000 c.p.s.	4½ grams	A66U
W78*	Crystal	4.0V or 2.0V	1 oz.	6,000 c.p.s.	Dual-Weight	none

*Dual-Weight, Dual-Volt Cartridge. With weight-slug, net weight is 25 grams. Without weight-slug, net weight is 12 grams. In addition Model W78 has capacitor, furnished as accessory. Without capacitor, output is 4.0 volts. With capacitor, output is 2.0 volts.

NEW SHURE

Music Lovers CARTRIDGE

for High Fidelity Systems



...A New Experience in Listening Pleasure!

Here is an important development in the history of high fidelity reproduction—a three-speed ceramic cartridge which is specially designed to enhance the quality of all the popular high fidelity equipment in use today. It brings a new dimension to tone quality... reproduces all instruments sharply and clearly... yet there is a subtle softness that records the original voice and music with a naturalness that will surprise and delight the most critical listeners. The "Music Lovers" Cartridge provides freedom from the induced hum and the magnetic "drag" prevalent with conventional high fidelity cartridges.

The "Music Lovers" Cartridge is equipped for mechanical interchangeability with magnetic pickups, and for direct connection to magnetic inputs of amplifiers not yet provided with constant displacement inputs, thus allowing the full advantages of compensation circuits.

A special feature of the "Music Lovers" Cartridge is the "twin-lever" needle shift transport—a unique device that provides lower mass and individual needle compliance for superior response—eliminates needle interaction.

The "Music Lovers" needle can be replaced quickly without tools in a matter of seconds—while it is in the tone arm—even blindfolded—with no danger of transposing the 3-mil and 1-mil tips.

Investigate the "Music Lovers" Cartridge, for here is a high-fidelity cartridge which is in a class by itself. Being free of cartridge induced hum and magnetic "drag" it provides a pureness of tone that gives you concert hall realism in the home!

Technical Data and General Information about the "Music Lovers" Cartridge

Response Frequency Characteristics:

A smooth response from 30 to 15,000 c.p.s. with a gradual "roll off" between 10,000 and 15,000 c.p.s. designed to ideally meet the exacting requirements of typical high fidelity reproduction. Equipped with network for connection to magnetic amplifier inputs.

Output Voltage:

Without network—0.4 volts at 1000 c.p.s.
With network—25 millivolts at 1000 c.p.s.

Recommended Load Impedance:

Input network (supplied with cartridge) is designed work into all magnetic preamplifiers with input impedance of 22,000 ohms to 1.0 megohm.

Compliance:

A high lateral compliance of 1.5×10^{-6} cm/dyne helps reduce record wear and allows the pickup to track and reproduce the full low frequency range at all speeds.

Tracking Force:

5 to 8 grams for all types of records.

Cartridge Capacitance:

525 mmfd.

Cartridge Weight:

Approximately 14 grams—with network—which is equivalent to the most popular magnetic cartridges.

MUSIC LOVERS CARTRIDGES

Model ML44 (SS)
(with .001 and .003 Sapphire needles)

List Price \$13.95

Model ML44 (DS)
(with .001 Diamond and .003 Sapphire needles)

List Price \$38.95

Model ML44 (DD)
(with .001 and .003 Diamond needles)

List Price \$57.90

MUSIC LOVERS NEEDLES

N4 (SS)
(with .001 and .003 Sapphire tips)

List Price \$5.95

N4 (DS)
(with .001 Diamond and .003 Sapphire tips)

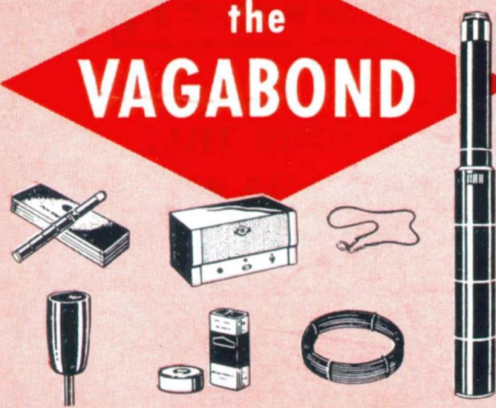
List Price \$31.00

N4 (DD)
(with .001 and .003 Diamond tips)

List Price \$49.95

the VAGABOND

Wireless Microphone System



The Vagabond System consists of: Microphone Transmitter; FM Receiver; Stand Adapter; Batteries; Lavalier; Antenna; 20' Shielded Cable.

The Vagabond "88" is the first practical wireless microphone system ever developed—no cables!... no body wiring!... no station license needed! The "88" is a complete wireless microphone system that can be used with the existing public-address equipment of any night club, auditorium, church, theater, athletic stadium, etc. The Vagabond "88" is recommended for clergymen, businessmen, entertainers, educators and sports announcers, who need freedom of movement within an operating area of 500 to 1000 square feet.

NOTE: The "88" will operate at maximum efficiency in an area free of electrical disturbances. In areas having higher electrical noise-levels, the operating area will be significantly reduced.

Model "88" System

Net Price \$700.00

SHURE

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Chicago 10, Illinois
Cable Address: SHUREMICRO

Scans:

<https://archive.org/>