SHURE MICROPHONES
HIGH FIDELITY TONE-ARMS and CARTRIDGES
REPLACEMENT PHONO CARTRIDGES
and MAGNETIC RECORDING HEADS

SHURE GENERAL CATALOG
No. 59
Shure Brothers, Inc. is providing for today’s critical requirements and will meet the exacting demands of the future. The world of electronics is at the threshold of a new era, and Shure planning envisions dramatic new products and revolutionary applications which will meet the challenge and fulfill the promise of tomorrow.

Since 1925 Shure Brothers, Inc., has made numerous significant contributions to the development of original acoustical-electronic products. In the future, as in the past, you can look to Shure for continued leadership in:

- Fine Studio and Public Address Microphones
- Precision Magnetic Recording Heads
- High Fidelity Phonograph Cartridges and Arms
- Original Equipment and Replacement Phonograph Cartridges
- “Industry-Standard” Communications Microphones
- Handsets and Special-Purpose Microphones
Shure Brothers, Inc., is able to give you quality products because we continually strive to raise already critical standards to precision levels previously considered unattainable.

Some of the more important factors governing Shure quality are:

*RESEARCH AND DEVELOPMENT—A continuing research program is devoted to the objective of developing new products with performance and design standards of a high order.

*ENGINEERING FACILITIES—The most modern anechoic chambers and laboratory equipment, much of it unavailable commercially, have been designed and built by our own engineering laboratory staff.

*ADVANCED METHODS AND STANDARDS—Special control techniques and devices enable us to improve the precision quality of customized assembly-line production.

*SCIENTIFIC PRODUCTION TECHNIQUES—Special production facilities guarantee desired delivery of mass-produced components for original equipment.

*QUALITY CONTROL—The continuous use of daily quality control techniques for incoming materials and for all phases of production results in uniform, high quality products.

Add up all of these factors and you have a time-proved formula for the quality performance and long-life operation of Shure products.
Model "333" STUDIO UNI-IRON
UNI-DIRECTIONAL RIBBON MICROPHONE

This quality microphone is designed for discriminating users with the most exacting professional requirements. The rugged "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. The "333" is super-cardioid, uni-directional—reduces the pickup of random noise energy by 73%—prevents the pickup of moving props and scuffling feet. The "333" Studio features the patented, world-famous Shure "Uniphase" acoustical network system—a field-proved standard of quality.

Model "525" STUDIO SLENDYNE
OMNI-DIRECTIONAL DYNAMIC MICROPHONE

The Studio "525" is an exceptionally fine, slender microphone of broadcast quality. It is custom-built to provide high fidelity reproduction of voice and music. The microphone has complete versatility and reliability for indoor and outdoor use and may be used: (1) on a conventional floor or desk stand, (2) in the hand, and (3) with the lavaliere cord and belt clip assembly. The use of high efficiency magnetic materials and specially designed magnetic circuits has made it possible to develop this small microphone and still achieve maximum operating efficiency. The microphone is ruggedly built to withstand hard usage and is unaffected by temperature and humidity variations.

Model "300" STUDIO GRADIENT
BI-DIRECTIONAL RIBBON MICROPHONE

This professional quality multi-impedance microphone is widely used for tape recording, broadcast and highest quality Public Address use. The "300" has a specially designed anti-"PFF" filter screen—which eliminates pickup of distracting breath noises. 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. It is ideal for highest-quality reproduction, especially wherever multi-person pickup is desired, yet background noise must be reduced.
"333" Uni-Directional Ribbon Microphone

LIST PRICE: $250.00
TYPE: Ribbon
FREQUENCY RESPONSE: 30 to 15,000 cps production uniformity guaranteed to plus or minus 2/2 db.
OUTPUT LEVEL: 30 ohm impedance: -60 db
150 ohm impedance: -59 db
250 ohm impedance: -59 db
(0 db = 1 milliwatt per 10 microbars)
POLAR PATTERN: Super-Cardioid (Uni-directional) Response at rear down 12 to 20 db from front.
MAGNETIC CIRCUIT: Uses Alnico V magnet
CASE: Die cast zinc
FINISH: Combination non-reflecting "Bronze-Tone" enamel case with beige aluminum grille.
SWIVEL: New, improved, self-adjusting "positive action" lifetime swivel. Permits tilting the head 45° forward and 70° backward, making it simple to aim the microphone at the source of sound.
SHOCK MOUNT: Special vibration-isolation unit of live rubber construction.
CABLE CONNECTOR: Cannon XL-3-11
CABLE: 20 ft., 2-conductor shielded broadcast type
STAND THREAD: Standard 3/8"—27 thread
STAND COUPLERS: Adapter for 5/8" pipe thread or 1/4"—24 thread available upon request at no extra charge.
SWITCH: Voice-Music Switch to adjust frequency characteristic for optimum performance.
DIMENSIONS: 7"(2" high; 1 1/2" wide; 1 1/2" deep
NET WEIGHT: 1/2 lb.; shipping weight 4 lbs.
OPTIONAL ACCESSORIES: Model S33 Desk Stand, A26C Extension Cable, Model A86A Cable-Type Transformer.

"525" Omni-Directional Dynamic Microphone

LIST PRICE: $200.00
TYPE: Dynamic
FREQUENCY RESPONSE: 40 to 15,000 cps, production uniformity guaranteed to plus or minus 2/2 db.
OUTPUT LEVEL: At 50, 150, 250 ohms: -61 db
(0 db = 1 milliwatt per 10 microbars)
POLAR PATTERN: Omni-directional
MAGNETIC CIRCUIT: Uses Alnico V magnet
CASE: Aluminum
FINISH: Non-reflecting "Bronze Tone" enamel with beige grille.
SWIVEL ADAPTER: Furnished with A25 type swivel adapter. It is a self-adjusting "positive action" lifetime swivel which permits the microphone to be tilted 90° from vertical to horizontal, making it simple to aim the microphone at the source of sound.
CABLE CONNECTOR: Cannon XL-3-11
CABLE: 20 ft., 2-conductor shielded broadcast type
STAND THREAD: The Model A25 swivel adapter has a 3/8"—27 thread
STAND COUPLERS: Adapter for 5/8" pipe thread or 1/4"—24 thread are available upon request at no extra charge.
DIMENSIONS: 8 1/2" high; 1" diameter
NET WEIGHT: 1/2 lb., shipping weight 3 1/4 lbs.
OPTIONAL ACCESSORIES: Model S33 Desk Stand, A26C Extension Cable, Model A86A Cable-Type Transformer.

"300" Bi-Directional Gradient Microphone

LIST PRICE: $150.00
TYPE: Ribbon
FREQUENCY RESPONSE: 40 to 15,000 cps production uniformity guaranteed to plus or minus 2/2 db.
OUTPUT LEVEL: 30-50 ohms -59 db*
150-250 ohms -60 db*
High -57 db**
(0 db = 1 milliwatt per 10 microbars)
(0 db = 1 volt per microbar)
POLAR PATTERN: Bi-directional. Equally sensitive at front and rear. Response at sides down 15 to 20 db from front and rear responses.
MAGNETIC CIRCUIT: Uses Alnico V magnet
CASE: Die cast zinc
FINISH: Non-reflecting "Bronze-Tone" enamel
SWIVEL: New improved self-adjusting "positive action" lifetime swivel permits tilting the head 45° forward and 90° backward so that the microphone can be aimed at the source of sound.
SHOCK MOUNT: Special vibration-isolation unit of live rubber construction.
CABLE CONNECTOR: Equipped with Cannon XL-3-11 connector.
CABLE: 20 ft., 2-conductor shielded broadcast type
STAND THREAD: 3/8"—27 thread
STAND COUPLERS: Adapter for 5/8" pipe thread or 1/4"—24 thread available upon request at no extra charge.
SWITCH: Equipped with Voice-Music Switch to adjust frequency characteristic for optimum performance.
DIMENSIONS: 6" high; 1 1/2" wide; 2 1/2" deep
NET WEIGHT: 1 1/4 lb.; shipping weight 3 1/4 lbs.
OPTIONAL ACCESSORIES: Model S33 Desk Stand, A26C Extension Cable, Model A86A Cable-Type Transformer.
GENERAL PURPOSE MICROPHONES

OMNI-DIRECTIONAL DYNAMIC MICROPHONES

SPECIFICATIONS FOR MODEL 530

LIST PRICE: $110.00
TYPE: Dynamic
FREQUENCY RESPONSE: 50 to 15,000 cps
OUTPUT LEVEL: L—50-250 ohms impedance — 61 db (0 db = 1 milliwatt per 10 microbars)
H—High impedance — 61 db (0 db = 1 volt per microbar)
POLAR PATTERN: Omni-directional
MAGNETIC CIRCUIT: Uses Alnico V magnet
CASE: Aluminum
FINISH: Black and gold anodized
SWIVEL ADAPTER: Furnished with A25 type swivel adapter. It is a self-adjusting "Positive Action" lifetime swivel which permits the microphone to be tilted through 90° from vertical to horizontal, making it simple to aim the microphone at the source of sound.
CABLE CONNECTOR: Cannon XL-3-11
CABLE: 20 ft. high quality, 2-conductor shielded broadcast type.
STAND THREAD: Standard %"-27 thread and may be mounted on any conventional desk, banquet or floor stand.
SWITCH: On-Off (normally closed)
DIMENSIONS: 7¾" high, 1" diameter
NET WEIGHT: ½ lb. shipping weight 1½ lbs.
FURNISHED ACCESSORIES: On-Off Switch, with Adapter Plate, A25 type Swivel Adapter, and Lavalier Assembly.
OPTIONAL ACCESSORIES: Model S338 Desk Stand, Model A86A Cable Type Transformer, A26C Extension Cable.

SPECIFICATIONS FOR MODEL 535

LIST PRICE: $72.50
TYPE: Dynamic
FREQUENCY RESPONSE: 60 to 13,500 cps
OUTPUT LEVEL: L—50-250 ohms impedance — 61 db (0 db = 1 milliwatt per 10 microbars)
H—High impedance — 61 db (0 db = 1 volt per microbar)
POLAR PATTERN: Omni-Directional
MAGNETIC CIRCUIT: Uses Alnico V magnet
CASE: Brass
FINISH: Satin chrome
SWIVEL ADAPTER: Furnished with Model A25 type Swivel Adapter. It is self-adjusting and permits the microphone to be tilted through 90° from vertical to horizontal, making it simple to aim the microphone at the source of sound.
CABLE CONNECTOR: Equivalent to Amphenol MC3M plug.
CABLE: 18 ft. 2-conductor shielded broadcast type.
STAND THREAD: With swivel adapter, standard 3½"-27 thread and may be mounted on any conventional desk, banquet or floor stand.
SWITCH: On-Off (normally closed)
DIMENSIONS: 7½" high, 1" diameter
NET WEIGHT: ¾ lb. shipping weight 2½ lbs.
FURNISHED ACCESSORIES: On-Off Switch Adapter plate, A25 type Swivel Adapter.
OPTIONAL ACCESSORIES: Model S33B Desk Stand, A27A Extension Cable, Model A86A Cable Type Transformer and A28L Lavalier Assembly.

Model "530" BROADCAST SLENDYNE

The Slendynes are the most versatile fine quality probe microphones ever developed—actually five microphones in one because of their practical design and useful accessories. They can be used for indoor or outdoor applications in the following manner: (1) in the hand; (2) on a floor or desk stand; (3) hung around the neck on a lavalier cord and clip assembly; (4) "on-off" switch adapter; (5) "high and low" dual-impedance switch. The Slendynes are ideal for high quality public address, theater-stage sound systems and all recording applications where an omni-directional microphone is desirable. These microphones are ruggedly built to withstand hard usage, and are unaffected by temperature and humidity variations.

Model "535" SLENDYNE
GENERAL PURPOSE MICROPHONES

WORLD FAMOUS “UNIDYNE” MICROPHONES

SPECIFICATIONS FOR MODEL 55S

LIST PRICE: $83.00
TYPE: Dynamic
FREQUENCY RESPONSE: 50 to 15,000 cps
OUTPUT LEVEL: L—35-50 ohms — 54 db
M—150-250 ohms — 55 db
H—High — 57 db (0 db = 1 volt per microbar)
IMPEEDANCE: Equipped with a Multi-Impedance switch, furnishing a choice of 3 impedances—L-35-50 ohms, M-150-250 ohms, H—35,000 ohms.
POLAR PATTERN: Ultra-Cardioid (uni-directional)
Response at rear down 15 db from front.
MAGNETIC CIRCUIT: Uses Alnico V Magnet
CASE: Die cast zinc
FINISH: Satin chrome
SWIVEL: New improved self-adjusting “positive action” lifetime swivel permits tilting of the head through 80° so that the microphone can be aimed at the source of sound.
CABLE CONNECTOR: Equivalent to Amphenol MC3M
CABLE: 18 ft., 2-conductor, shielded broadcast type
STAND THREAD: Standard %″-27 thread
DIMENSIONS: 7 ″ high, 2 ″ 6 ″ wide, 3 ″ 6 ″ deep
NET WEIGHT: 3 1/2 lbs., shipping weight 4 1/4 lbs.
OPTIONAL ACCESSORIES: Model S36A Desk Stand, Model A86A Cable Type Transformer, A27A Extension Cable, Models A83B, A84B, A85C, A88A On-Off Switches.

SPECIFICATIONS FOR MODEL 556S

LIST PRICE: $135.00
TYPE: Dynamic
FREQUENCY RESPONSE: 40 to 15,000 cps guaranteed to plus or minus 2 1/2 db
OUTPUT LEVEL: L—30-50 ohm impedance — 54 db
M—150-250 ohm impedance — 55 db
H—High — 57 db (0 db = 1 volt per microbar)
IMPEEDANCE: Equipped with a Multi-Impedance switch, furnishing a choice of 3 impedances—L-30-50 ohms, M-150-250 ohms, H—High.
POLAR PATTERN: Ultra-Cardioid (Uni-directional)
Response at rear down 15 db from front.
MAGNETIC CIRCUIT: Uses Alnico V Magnet
CASE: Die cast zinc
FINISH: Satin chrome
SWIVEL: New improved self-adjusting “positive action” lifetime swivel permits tilting of the head through 45° forward and 90° backward so that the microphone can be aimed at the source of sound.
SHOCK MOUNT: Special vibration-isolation unit of live rubber construction.
CABLE CONNECTOR: Equipped with Cannon XL-3-11 connector.
CABLE: 20 ft., 2-conductor shielded broadcast type.
STAND THREAD: Standard %″-27 thread
DIMENSIONS: 7 ″ high, 2 ″ 6 ″ wide, 3 ″ 6 ″ deep
NET WEIGHT: 3 1/4 lbs., shipping weight 4 3/4 lbs.
OPTIONAL ACCESSORIES: Model S33 Desk Stand, Model A86A Cable Type Transformer.

For many years the Unidynes have been the most widely used microphones throughout the world. They are specified by leading sound engineers and requested by famed celebrities—for those important events where the faithfulness of sound reproduction is most critical. And now, “The Best is Even Better”—for the famed Unidynes are now 41% higher in output level! This means that the Unidynes are ideal for use with low-gain tape recorders and low-gain P.A. systems—in addition to their famed use with highest quality sound systems.

Model 55S is highly recommended for fine quality public address, theater-stage sound systems, recording and remote broadcasting. It is also the field-proved standard for fixed-station use in the police, fire, transportation, forestry and commercial services.

Model 556S is specially designed to meet the high technical requirements of broadcast and television studios. It will endure the heavy punishment of daily use and abuse—will operate at optimum efficiency while conventional microphones are “out of service,” due to their frequent need for maintenance and repair. It is held within close tolerances in frequency response and directivity. The Broadcast Unidyne is ideal for high quality station and remote broadcasting, public-address, theater-stage sound systems and recording applications. The 556S is provided with a vibration-isolation unit of live rubber construction. This specially designed shock-mount completely eliminates metal-to-metal contact between microphone and stand.
GENERAL PURPOSE MICROPHONES

**Model '330' Professional Uni-Ron**

The striking-looking new 330 "Uni-Ron" Microphone has been designed to meet the exacting requirements of professional tape recording and highest quality, indoor public-address systems. The "Uni-Ron" is basically a member of the Shure Studio Microphone family, similar in appearance and performance to the Model "333". The "Uni-Ron" has a super-cardioid pickup pattern—reduces the pick-up of undesired random noise energy by 73%.

This rugged performer has been developed to achieve optimum operating performance— for those applications where highest quality is essential, yet cost is an important factor.

**Specifications for Model 330**

- **List Price:** $120.00
- **Type:** Ribbon
- **Frequency Response:** 30 to 15,000 cps. Guaranteed to plus or minus 2½ db.
- **Output Level:**
  - 50 ohm impedance: -59 db*
  - 150 ohm impedance: -57 db*
  - 250 ohm impedance: -58 db*

  *(0 db = 1 milliwatt per 10 microbars)
- **Impedance:** Equipped with a Multi-Impedance Switch, furnishing a choice of 3 impedances—50 ohms, 150 ohms, 250 ohms.
- **Polar Pattern:** Super Cardioid (Uni-directional). Response at rear down 15 db from front.
- **Magnetic Circuit:** Ribbon Element—Alnico V magnet
- **Case:** Die cast zinc.
- **Finish:** Satin chrome plate with natural anodized aluminum grille
- **Swivel:** Self-adjusting "positive action" lifetime swivel. Permits tilting the head 45° forward and 70° backward, making it simple to aim the microphone at the source of the sound.
- **Shock Mount:** Special vibration-isolation unit of live rubber construction.
- **Cable Connector:** Equipped with Cannon XL-3-11 Connector
- **Cable:** 20-ft., 2-conductor shielded broadcast type
- **Stand Thread:** Standard %"-27 thread
- **Dimensions:** 3¾" high, 1½" wide, 1½" deep
- **Net Weight:** 1½ lbs., shipping weight 3½ lbs.
- **Optional Accessories:** Model S33B Desk Stand, A26C Extension Cable, Model A86A Cable-Type Transformer.

**Model '315' Gradient**

This rugged high fidelity multi-impedance microphone is recommended for fine quality, general-purpose uses. The 315 will reproduce voice and music in a clear, natural-tone quality, which makes it ideal for use in auditoriums, night clubs, schools and churches. It is similar in features and design to the Studio Model 300. The 315 is used for those numerous public-address applications where its streamlined design and striking beauty lend dignity and prestige to any setting in which it is used. This gradient microphone is a favorite of professional performers and educators because it provides unusual freedom of motion on the platform—making it possible for the user to stand at a 73% greater distance from the microphone than is possible with omni-directional microphones.

**Specifications for Model 315**

- **List Price:** $89.50
- **Type:** Ribbon
- **Frequency Response:** 50 to 12,000 cps
- **Output Level:**
  - L-30-50 ohm impedance: -59.5 db*
  - M-150-250 ohm impedance: -60 db*
  - H-High: -57 db**

  *(0 db = 1 milliwatt per 10 microbars)
  **(0 db = 1 volt per microbar)
- **Impedance:** Equipped with a Multi-Impedance Switch, furnishing a choice of 3 impedances: L-30-50 ohms, M-150-250 ohms, H-High.
- **Polar Pattern:** Bi-directional. 66% reduction of pick-up of undesired sound. Equally sensitive at front and back. Response at sides down 15 to 20 db from front and rear responses.
- **Magnetic Circuit:** Uses Alnico V magnet
- **Case:** Die cast zinc.
- **Finish:** Satin chrome.
- **Swivel:** New self-adjusting swivel permits tilting the head through 90° so that the microphone can be aimed at the source of sound.
- **Cable Connector:** Equivalent to the Amphenol MC3M plug
- **Cable:** 18 ft., two conductor, shielded broadcast type
- **Stand Thread:** Standard %"-27 thread
- **Dimensions:** 6½" high, 1½" wide, 1½" deep
- **Net Weight:** 1½ lbs., shipping weight 3½ lbs.
- **Optional Accessories:** Model S36A Desk Stand, Model A86A Cable Type Transformer, A27A Extension Cable, and A83B, A84B, A85C, A88A On-Off Switches.
GENERAL PURPOSE MICROPHONES

SPECIFICATIONS FOR MODEL 51

LIST PRICE: $49.50
TYPE: Dynamic
FREQUENCY RESPONSE: 60 to 10,000 cps
OUTPUT LEVEL: L -35-50 ohm impedance -53 db*
M -150-250 ohm impedance -52 db*
H -High -52 db**

*0 db= 1 milliwatt per 10 microbars
** 0 db= 1 volt per microbar
IMPEDEANCE: Equipped with a multi-impedance switch, furnishing a choice of 3 impedances—L-35-50 ohms, M-150-250 ohms, H-High
POLAR PATTERN: Semi-directional
MAGNETIC CIRCUIT: Uses Alnico V magnet
CASE: Die cast zinc
FINISH: Satin chrome
SWIVEL: Lifetime swivel permits tilting the head 90° backward to horizontal position for omni-directional pickup.
CABLE CONNECTOR: Equivalent to Amphenol MC3M
CABLE: 15 ft., 2-conductor shielded
STAND THREAD: Standard %"-27 thread
DIMENSIONS: 5%" high, 3Vs" wide, 2Ifg" deep.
NET WEIGHT: 1% lbs., shipping weight 3V2 lbs.
OPTIONAL EQUIPMENT: Model S36A Desk Stand,
Model A86A Cable Type Transformer, A27A Extension Cable, Models A83B, A84B, A85C, A88A On-Off Switches.

The “Sonodyne” is recommended for all general purposes, including public address, wire and tape recording, and similar applications. It is used by bands, instrumentalists and recording artists because of its excellent reproduction of both voice and music. Because of its high output and multi-impedance features, tape recording enthusiasts have used the Sonodyne as an ideal, good-quality, moderately-priced replacement for the conventional microphone supplied with tape recorders.

SPECIFICATIONS FOR MODEL 737A

LIST PRICE: $46.00
TYPE: Crystal—Moisture-proof “Metal Seal” crystal for long operating life.
FREQUENCY RESPONSE: 60 to 10,000 cps
OUTPUT LEVEL: -53 db* (0 db= 1 volt per microbar)
IMPEDEANCE: High. Recommended load: 1 to 5 megohms
POLAR PATTERN: Super Cardioid, for 73% reduction of pickup of random noise energy.
CASE: Die cast zinc
FINISH: Satin chrome
SWIVEL: Lifetime swivel permits tilting the head 90° backward to horizontal position for omni-directional pickup.
CABLE CONNECTOR: Equivalent to Amphenol MC3M
CABLE: 15 ft., single conductor, shielded
STAND THREAD: Standard %"-27 thread
DIMENSIONS: 4" high, 6Ifg" high with connector, 3Vs" wide, 15/8" deep.
NET WEIGHT: 1½ lb., shipping weight 2½ lbs.

The “Monoplex” is the only Super-Cardioid Crystal Microphone made—far superior to any other crystal microphone. It is 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 inadequate. Eliminates feedback problems and reduces pickup of random sound by 73%! Has moisture-proof “Metal Seal” crystal for long operating life.
VERSATILE CRYSTAL MICROPHONE

**Model 777 “Slim-X” Microphone**

The “777” Slim-X Microphones are rugged little microphones weighing only 6 ounces. They use a “Metal Seal” crystal for long operating life under adverse conditions of heat and humidity. 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. All models are furnished with a lavalier cord, for suspension of microphone around the neck.

**SPECIFICATIONS FOR MODEL 777**

- **List Price:** Model 777—$25.00 Includes lavalier cord and molded stand adapter.
  - Model 777S—$27.00 Includes lavalier cord, “On-Off” switch and molded stand adapter.
  - Model 777A—$33.00 Includes lavalier cord, A25 Swivel stand adapter, S38 Desk Stand.
  - Model 777SA—$35.00 Includes lavalier cord, A25 Swivel stand adapter, S38 Desk Stand and “On-Off” switch.
- **Type:** Crystal—moisture-proof “Metal Seal” crystal for long operating life.
- **Frequency Response:** Smooth, peak free from 60 to 10,000 cps.
- **Output Level:** -62 db (0 db = 1 volt per microphone)
- **Polar Pattern:** Omni-directional
- **Case:** Die cast zinc
- **Finish:** Satin chrome
- **Swivel:** Models 777A and 777SA are equipped with Model A25 swivel stand adapter. It has a self-adjusting “positive action” lifetime swivel which permits the microphone to be tilted 90° from vertical to horizontal.
- **Cable Connector:** Equipped with Amphenol MCIF plug for attaching cable to microphone.
- **Cable:** Detachable 7 ft., rubber-covered, single conductor shielded.
- **Stand Thread:** Standard 3/8”-27 thread
- **Switches:** Models 777S and 777SA have a built-in switch to control the microphone circuit. The switch is of the press-to-talk locking or non-locking type.
- **Dimensions:** (Microphone only) 4 3/4” high, 1” diameter.
- **Net Weight:** (Microphone only) 6 oz., shipping weight 1 lb.
- **Optional Accessories:** Model S38 Desk Stand, A25 type Swivel Adapter.

**THE 777 “Slim-X” CAN BE REMOVED IN A FLASH—NO TOOLS NECESSARY**

To Remove Slim-X From Cradle or Swivel

1. Simply Pull Out Like This

To Replace Simply

1. Re-Insert Like This
Models 215-715

These beautifully designed microphones are excellent for voice and music reproduction. Their extremely low price and good quality make them a “natural” for home recording, intercom systems, and inexpensive public address systems. The “Starlite” microphones can be held in the hand, or used on a desk by simply releasing a “built-in” retractable stand which is an integral part of the back of the microphone case.

LIST PRICE: $8.00

TYPE: Model 215—Ceramic, Model 715—Crystal

FREQUENCY RESPONSE: Model 215—50-8,000 cps, Model 715—50-10,000 cps

OUTPUT LEVEL: Model 215—56.5 db (0 db=1 volt per microbar), Model 715—50 db (0 db=1 volt per microbar)

IMPEDANCE: High

POLAR PATTERN: Semi-Directional

CASE: Impact Resistant Polystyrene

FINISH: Model 215—Black Front, gray back with light gray grille, Model 715—Gray front, black back with black grille

CABLE: Equipped with 5 ft., fabric-covered, single conductor shielded cable

STAND: Permanently connected retractable stand

DIMENSIONS: 3⅜” high, 2⅜” wide, 1⅜” deep

Model 710

Low price, rugged hand-held microphone, designed for high speech intelligibility. A natural for radio amateur rigs and low-cost public address systems. Has a broad base, complete with stand adapter for mounting on floor stand.

LIST PRICE: Model 710A $12.00, Model 710S (with switch) $14.00

TYPE: Crystal

FREQUENCY RESPONSE: 50 to 9,000 cps

OUTPUT LEVEL: —50 db (0 db=1 volt per microbar)

IMPEDANCE: High—Recommended load impedance: 1 to 5 megohms

POLAR PATTERN: Semi-directional

CASE: Die cast zinc

FINISH: Metallic burgundy red

CABLE: 7 ft., fabric-covered, single-conductor shielded

STAND THREAD: Microphones are provided with a stand adapter having the standard 3/8”–27 thread which fits the conventional floor stand

SWITCH: Model 710S has a built-in, press-to-talk switch

DIMENSIONS: 3⅛” high, 2⅛” wide, 1⅛” deep

OPTIONAL ACCESSORIES: Models S34B or S36A Desk Stands

Model 707A

Ideal for low-cost public address systems, call systems, amateur phone transmitters and general purpose use. Features good-quality reproduction at low cost. Uses moisture-proofed Bimorph Rochelle Salt crystal, for long-life operation.

LIST PRICE: $19.50

TYPE: Crystal

FREQUENCY RESPONSE: 30 to 7,000 cps

OUTPUT LEVEL: —50 db (0 db=1 volt per microbar)

POLAR PATTERN: Semi-directional

CASE: Die cast zinc

FINISH: Iridescent gray case, satin chrome grille

CABLE: 7 ft., single-conductor shielded

STAND THREAD: Standard 3/8”–27 thread

DIMENSIONS: 3⅜” high, 2⅜” diameter

OPTIONAL ACCESSORIES: Model S34B Desk Stand
The new Commando series represents a significant achievement in providing quality performance at nominal cost. These dramatic looking, rugged microphones can be used indoors or outdoors. Models 415 and 430 provide practical versatility of operation. They can be held in the hand, set on a floor stand or on a desk stand—can be inserted or withdrawn from the stand in a second, without the use of any tools! Coupled with this versatility of usage, the Commandos provide excellent voice and music reproduction, making them ideal for general-purpose applications where both voice and music reproduction are of critical importance. Commandos can be used for tape recording in the home; theater-restaurant public address systems; lecturing; paging and dispatching systems; interview-type shows; outdoor public address systems for carnivals, picnics and special events.
MODEL 430 OMNI-DIRECTIONAL "CONTROLLED MAGNETIC" MICROPHONE

SPECIFICATIONS FOR COMMANDO MICROPHONE MODEL 430
LIST PRICE: $38.50

TYPE: Controlled Magnetic
FREQUENCY RESPONSE: 60 to 10,000 cps
OUTPUT LEVEL: High — 52 db (0 db = 1 volt per microbar), Low — 52 db (0 db = 1 milliwatt per 10 microbars).
IMPEDANCE: Equipped with readily changeable pin jacks (no soldering required). Furnishing a choice of two impedances, L—150 to 250 and H—High.
POLAR PATTERN: Omni-Directional
CASE: Impact-resistant polystyrene and die cast zinc
FINISH: Satin chrome and non-reflecting gray.

SWIVEL ADAPTER: A Model A25 type swivel adapter is furnished with the microphone. It is self-adjusting and permits the microphone to be tilted through 90° arc from vertical to horizontal, making it simple to aim the microphone at the source of sound.

STAND THREAD: 5/8"—27 thread.
CABLE: 15 ft., 2-conductor shielded.
CABLE CONNECTOR: Amphenol MC2M
SWITCH: Press-to-talk switch — normally closed
DIMENSIONS: Length 6 1/4", diameter of top portion 1 3/4", diameter of handle 1 3/16".

FURNISHED ACCESSORIES: Switch locking plate for keeping switch in "on" position, Model A25 type Swivel Adapter.

OPTIONAL ACCESSORIES: Model A86A Cable Type Transformer and Model S38B Desk Stand.

MODEL 420 OMNI-DIRECTIONAL "CONTROLLED MAGNETIC" MICROPHONE

SPECIFICATIONS FOR COMMANDO MICROPHONE MODEL 420
LIST PRICE: $30.00

TYPE: Controlled Magnetic
FREQUENCY RESPONSE: 60 to 10,000 cps
OUTPUT LEVEL: High — 52 db (0 db = 1 volt per microbar), Low — 52 db (0 db = 1 milliwatt per 10 microbars).
IMPEDANCE: Equipped with readily changeable pin jacks (no soldering required). Furnishing a choice of two impedances L—150 to 250 and H—High.
POLAR PATTERN: Omni-Directional
CASE: Impact-resistant polystyrene
FINISH: Non-reflecting gray.
CABLE: 20 ft., 2-conductor, non-detachable, shielded.

DIMENSIONS: Length 3 1/8", diameter 1 1/2".

FURNISHED ACCESSORIES: Lavalier cord and clip assembly. Readily detachable for use of microphone as a hand-held type.

OPTIONAL ACCESSORIES: Model A86A Cable Type Transformer.

MODEL 415 OMNI-DIRECTIONAL "CONTROLLED MAGNETIC" MICROPHONE

SPECIFICATIONS FOR COMMANDO MICROPHONE MODEL 415
LIST PRICE: $27.50

TYPE: Controlled Magnetic
FREQUENCY RESPONSE: 60 to 10,000 cps
OUTPUT LEVEL: — 52 db (0 db = 1 volt per microbar)
IMPEDANCE: High
POLAR PATTERN: Omni-Directional
CASE: Impact-resistant polystyrene—die cast zinc
FINISH: Non-reflecting gray and satin chrome.

SWIVEL ADAPTER: Furnished with Model A25 type swivel Adapter. It is self-adjusting and permits the microphone to be tilted through 90° arc from vertical to horizontal, making it simple to aim the microphone at the source of sound.

CABLE: 7 ft. non-detachable single conductor shielded.
STAND THREAD: With swivel adapter, standard 5/8"—27 thread, and may be mounted on any conventional desk, banquet or floor stand.
DIMENSIONS: Length 6 1/8", diameter of head 1 1/8", diameter of handle 1/2".

ACCESSORIES FURNISHED: Model A25 type Swivel Adapter.

OPTIONAL ACCESSORIES: Model S38B Desk Stand.
CONTROLLED MAGNETIC MICROPHONES

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 ruggedness, clear reproduction and high output for public address, communications and recording, wherever high speech intelligibility is vital. It is recommended for Announcing, Mobile Public Address Systems; Communications; Home Recording; and Intercom Systems. The Hercules can be used either indoors or outdoors, fits snugly in the hand, or sits firmly on a desk. Furnished with stand adapter.

SPECIFICATIONS: Model 510
LIST PRICE: Model 510C $17.00, Model 510S (with switch) $19.00
TYPE: Controlled Magnetic
FREQUENCY RESPONSE: 100 to 7,000 cps
OUTPUT LEVEL: -52.5 db (0 db = 1 volt per microbar)
IMPEDANCE: High. Recommended load 100,000 ohms or more
POLAR PATTERN: Semi-directional
CASE: Die cast zinc
FINISH: Metallic green
CABLE: 7 ft. fabric-covered, single conductor, shielded
STAND THREAD: Microphone provided with a stand adapter having a 3/8"-27 thread, which fits the conventional floor stand
SWITCH: Model 510S has a built-in switch to control the microphone circuit. The switch is of the press-to-talk locking or non-locking type
DIMENSIONS: 3¼" high, 2¼" wide, 1½" deep
NET WEIGHT WITH CABLE: 3/8 lb., shipping weight 1½ lb.
OPTIONAL ACCESSORIES: Models S34B or S36A Desk Stand

This Controlled Magnetic unit is designed to handle the most severe field requirements of paging and dispatching systems. It is wired to operate both microphone and relay circuits. The "Dispatcher" is ideal for police, taxi-cab, railroad, airport, bus, truck, and all emergency communications work where dependability is vital. Large grip-bar assures positive contact. Complete assembly furnished as illustrated.

SPECIFICATIONS: Model 520SL
LIST PRICE: $45.00
TYPE: Controlled Magnetic
FREQUENCY RESPONSE: 100 to 9,000 cps
OUTPUT LEVEL: -52.5 db (0 db = 1 volt per microbar)
IMPEDANCE: High. Recommended load 100,000 ohms or more
POLAR PATTERN: Semi-directional
CASE: Die cast zinc
FINISH: Metallic green with satin chrome handle and grille
CABLE CONNECTOR: Equivalent to Amphenol MC3M plug
CABLE: 7 ft. high-quality 2 conductor shielded
SWITCH: Equipped with grip-to-talk switch, similar to Shure A88A.
DIMENSIONS: With stand 9¾" high, 5½" wide, 7½" deep
NET WEIGHT WITH CABLE: 2½ lbs., shipping weight 5 lbs.

The "Green Bullet" is designed to provide quality music and speech reproduction at moderate cost. It is practically immune to the effects of high temperature and humidity. 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.

SPECIFICATIONS: Model 520
LIST PRICE: Model 520 $22.50
TYPE: Controlled Magnetic
FREQUENCY RESPONSE: 100 to 9,000 cps
OUTPUT LEVEL: Model 520: -52.5 db (0 db = 1 volt per microbar)
IMPEDANCE: Model 520—High. Recommended load 100,000 ohms or more.
POLAR PATTERN: Semi-directional
CASE: Die cast zinc
FINISH: Metallic green with satin chrome grille
CABLE: Model 520—7 ft., single conductor shielded
STAND THREAD: Standard 3/8"-27 thread
DIMENSIONS: Diameter 2¼", overall length 3½"
NET WEIGHT: 1½ lb. (with 7 ft. cable), shipping weight 1½ lb.
OPTIONAL ACCESSORIES: Models S34B or S36A Desk Stands.
The Shure "Ranger" is 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, carnivals, etc.). The "Ranger is designed for high speech intelligibility. Easy to use, fits snugly in the palm of the hand. (Note: In addition to being a direct replacement for the General Electric EM10A, the Model 505K is also ideally suited for those applications requiring a unit with a coiled cord.)

SPECIFICATIONS FOR MODELS 505B, 505C

- **LIST PRICE:** $32.00
- **TYPE:** Controlled Magnetic
- **FREQUENCY RESPONSE:** 200 to 8,000 cps
- **OUTPUT LEVEL:**
  - Model 505B: -50 db (0 db = 1 milliwatt per 10 microbars)
  - Model 505C: -50.5 db (0 db = 1 volt per microbar)
- **IMPEDANCE:** Model 505B: 150 - 250 ohms
  - Model 505C: High, Recommended load 100,000 ohms or more
- **POLAR PATTERN:** Semi-Directional
- **CASE:** Die cast zinc
- **FINISH:** Blue gray-Wrinkle Enamel
- **CABLE:** Model 505B: 5 ft., 4-conductor (2-conductor shielded)
  - Model 505C: 5 ft., 3-conductor (1-conductor shielded)
- **SWITCH:** A double-pole, single-throw, lead-type switch to control the microphone circuit and to control an external relay or switching circuit.
- **DIMENSIONS:** 3'0/16" high, 23/4" wide, 2%2" deep
- **NET WEIGHT:** 1/4 lb., shipping weight 11/3 lb.

**Model 505T**

The Model 505T "Ranger" is the perfect improvement-replacement for carbon microphones now used in mobile communications equipment. An outstanding feature incorporated in this unit is a TRANSISTOR AMPLIFIER housed within the case. It is powered by the current available from the carbon microphone circuit. The 505T does not require batteries or extra power-supplies. The 505T provides remarkable speech clarity and it is free from the age-old common to carbon microphones used under conditions of vibration. Model 505T is recommended for mobile communications where carbon microphones have been in use: police, bus, trucking, taxi cab, etc., where high speech intelligibility and long operating life are essential.

SPECIFICATIONS FOR MODEL 505T

- **LIST PRICE:** $48.50
- **TYPE:** Controlled Magnetic (with TRANSISTOR AMPLIFIER)
- **FREQUENCY RESPONSE:** 200 to 4,000 cps
- **OUTPUT LEVEL:** -1 db loaded with 500 ohms (0 db = 1 milliwatt per 100 microbars)
- **POLAR PATTERN:** Semi-Directional
- **CASE:** Die cast zinc
- **FINISH:** Two-tone light gray and black "Baked Enamel"
- **CABLE:** Model 505T: 5 ft., 4-conductor stranded, coiled cord
- **SWITCH:** Equipped with heavy-duty, push-to-talk switch. Controls external relay.
- **DIMENSIONS:** 3'1/2" high, 2%4" wide, 2%5/8" deep
- **NET WEIGHT:** 1/4 lb., shipping weight 11/3 lb.

**Model R5T**

Model R5T is a conversion kit containing a controlled magnetic cartridge and transistor amplifier. It is designed to convert carbon microphones into improved controlled magnetic transistorized microphones. Conversion takes only a matter of minutes—and all that is necessary is a screwdriver, a long-nose plier and a soldering iron.

SPECIFICATIONS FOR MODEL R5T

- **LIST PRICE:** $25.00
- **TYPE:** Controlled magnetic with transistor amplifier
- **FREQUENCY RESPONSE:** 200 to 4,000 cps
- **OUTPUT LEVEL:** -1 db loaded with 500 ohms (0 db = 1 milliwatt per 100 microbars)
- **POLAR PATTERN:** Semi-directional
CARBON COMMUNICATIONS MICROPHONES

MODEL 100 SERIES MICROPHONES

SPECIFICATIONS FOR MODEL 100 SERIES

LIST PRICE:
- Model 101C: $30.00 and 102C: $30.00
- Model 101E: $33.00 and 102E: $33.00
- Model 103: $31.00

TYPE: Carbon

FREQUENCY RESPONSE: 300 to 4,000 cps

OUTPUT LEVEL: 5 db below 1 volt for 100 microbar speech signal

IMPEDANCE: Recommended load: 50 to 100 ohms

POLAR PATTERN: Semi-directional

CASE: Die cast zinc

FINISH: Blue gray—Wrinkle finish

CABLE: 11" retracted and 5' extended cable
- Model 101C and 102C—Standard Coiled Cord
- Model 101E—Tinsel Coiled Cord with Amphenol MC4M Connector
- Model 102E—Tinsel Coiled Cord with spade lugs
- Model 103—Standard Coiled Cord with Amphenol MC4M Connector

SWITCH: All models equipped with heavy-duty, push-to-talk switch

SWITCH ARRANGEMENT:
- Models 101C and 101E—2-wire Relay Switch normally open (no microphone switch)
- Models 102C and 102E—Relay normally open. Microphone switch normally open
- Model 103—2-wire Relay Switch normally open (no microphone switch)

DIMENSIONS: 3'-4" high, 2'-3" wide, 2'-4" deep

NET WEIGHT: 1 lb., shipping weight 1 lb., 6 oz.

REPLACEMENT CHART

<table>
<thead>
<tr>
<th>Manufacturers</th>
<th>Replacement Models</th>
<th>Manufacturers</th>
<th>Replacement Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models</td>
<td>C10C</td>
<td>Models</td>
<td>C102C</td>
</tr>
<tr>
<td>CB10, CB10B</td>
<td>101C</td>
<td>CB12, CB12A, CB12B, CB12D</td>
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<tr>
<td>CB10C, CB10D,</td>
<td></td>
<td>CB12E</td>
<td>102E</td>
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<tr>
<td>CB15, CB15D</td>
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<td>CB15F</td>
<td>103</td>
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<td>CB16C</td>
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</tbody>
</table>

COILED CORD SETS

Tinsel coiled cord with trimmed and tinned leads and Amphenol MC4M Connector attached for use with General Electric EM10A and 50SK Microphones.
- Model: C10C
  - List Price: $12.00

Standard Copper Coiled Cord with trimmed and tinned leads.
Used with 50ST, "CB" and "100" Series Microphones.
- Model: C15C
  - List Price: $6.25

Tinsel Coiled Cord with Amphenol MC4M Connector for use with General Electric equipment.
- Model: C16C
  - List Price: $9.50

Tinsel Coiled Cord with spade lugs for use in Motorola equipment.
- Model: C17C
  - List Price: $7.75

Standard Coiled Cord with Amphenol MC4M Connector for use with Motorola equipment.
- Model: C18C
  - List Price: $9.50

Tinsel Coiled Cord with Amphenol MC4M Connector for use with Motorola equipment.
- Model: C19C
  - List Price: $9.50

Model 100 Series

Used around the world for police, taxi, bus, truck and commercial applications—more than all other makes combined! Adopted as standard microphone for G.E., Motorola, R.C.A. and others for 2-way radio communications equipment. The "100 Series" Microphones are provided with a bracket for permanent placement in portable or mobile equipment. They fit naturally and comfortably in the palm of the hand. They are light, compact and rugged units—with a reputation for long-life performance under "rough and tumble" operating conditions.

Coiled Cord Sets

Coiled Cord replacement for Shure "100" and "CB" Series Microphones vary from model to model. For specific models see listing below.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CABLE</th>
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</thead>
<tbody>
<tr>
<td>CB10C</td>
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<tr>
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<td>CB10C</td>
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<tr>
<td>CB16C</td>
<td>C16C</td>
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</table>
### SPECIAL PURPOSE MICROPHONES

#### MICROPHONE REPLACEMENT CARTRIDGES

<table>
<thead>
<tr>
<th>MICROPHONE REPLACEMENT CARTRIDGE MODEL</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MODEL R10</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Type:</strong> Crystal</td>
<td></td>
</tr>
<tr>
<td><strong>Frequency Response:</strong> 30 to 15,000 cps</td>
<td></td>
</tr>
<tr>
<td><strong>Output Level:</strong> -58 db (0 db = 1 volt per microbar)</td>
<td></td>
</tr>
<tr>
<td><strong>Polar Pattern:</strong> Omni-directional</td>
<td></td>
</tr>
<tr>
<td><strong>Finish:</strong> Satin chrome</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions:</strong> 1.1/4 diameter, 2 1/8 long</td>
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</tr>
<tr>
<td><strong>Net Weight:</strong> 3.8 oz.</td>
<td></td>
</tr>
</tbody>
</table>


Model R10 - List Price $8.50

**Model R9A149 is the replacement cartridge used in microphone models: CB26, CB21, CB30 and 115.**

**CRystal MICROPHONE MODEL R7**

**Type:** Crystal Microphone. Available for service installations as a replacement for the cartridges in the Shure Crystal Microphones of the 707A and 708A Series, and other microphones of similar design.

Model R7 - List Price $8.25

**SLIM-X MICROPHONE CARTRIDGE**

The Model 99A186 replacement cartridge assembly for the 777 Series Slim-X Microphones. Crystal element metal-sealed for long life under adverse conditions of heat and humidity. Requires only one solder connection.

Model 99A186 - List Price $10.00

**CONTROLLED MAGNETIC MICROPHONE MODEL R5**

Direct replacement for cartridges used in the following Shure microphone models: 70C, 510MD, 510S, 520, 520SL and 503C. Also ideal for 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

### SOUNd LEVEL MICROPHONE MODEL 98B99

Custom-made non-directional crystal microphone designed for scientific and industrial sound measurement work, and for those special applications that involve frequency response determinations, pro- duction testing, ambient noise levels, reverberation measurements, etc. Protected from humidity by "Hum-Seal" foil wrap. Features uniform frequency response; high sensitivity; high acoustical impedance; freedom from electrostatic discharge; and electromagnetic induction.

Model 98B99 - List Price $97.50

**Specifications for Model 98B99**

- **Type:** Crystal
- **Frequency Response:** 30 to 15,000 cps
- **Output Level:** -58 db (0 db = 1 volt per microbar)
- **Polar Pattern:** Omni-directional
- **Finish:** Satin chrome
- **Dimensions:** 1 1/4 diameter, 2 1/8 long
- **Net Weight:** 3.8 oz.

**Vibration Pickup MODEL 61B**

Used for locating and measuring vibrations; checking surface smoothness and for the solution of a wide variety of scientific and industrial problems. No external moving parts. Triple moisture-sealed Grafoil Bimorph Crystal element. Supplied with rubber mounting ring. Features uniform frequency response dependent on the load capacity of the foil wrap. Features uniform frequency response; high sensitivity; high acoustical impedance; freedom from electrostatic discharge; and electromagnetic induction.

Model 61B - List Price $97.50

**Specifications for Model 61B**

- **Type:** Crystal
- **Frequency Response:** Low frequency response dependent on the terminal resistance employed.
- **Internal Impedance:** Equivalent to .005 microfarad capacitor. Recommended Load: 1/2 to 5 megohms
- **Case:** Die cast aluminum
- **Finish:** Baked black enamel
- **Cable:** Equipped with 7 ft. single conductor rubber-jacketed shielded cable.

**ASSOCIATED FURNISHED**

Complete set of adapters including 5" extension rod, ball-tip, point-tip and mounting bracket.

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### SMALL CONTROLLED MAGNETIC MICROPHONES

The MC Series of small microphones are specially designed for use in vacuum-tube devices, such as small, compact hearing-aid amplifiers, transmitters, dotting equipment—wherever size and weight are important factors. They also are highly recommended for use in small transistor-type devices. The MC series are metal cased for hum protection. They are rugged units, immune to mechanical shock, and to varying conditions of heat and humidity.

**Model MC1 (Circular)**

- **List Price:** $12.50

**Model MC2 (Rectangular)**

- **List Price:** $14.00

**Model MC3 (Rectangular)**

- **List Price:** $20.00

**Specifications for Models MC1, MC2 and MC3**

- **List Price:** MC1—$12.50
  - MC2—14.00
  - MC3—20.00

**Type:** Controlled Magnetic

**Frequency Response:** MC1—400 to 1,000 cps, MC20—400 to 5,000 cps, MC30—400 to 3,500 cps

**Output Level:** MC1—71 db (0 db = 1 volt per microbar), MC20—75 db (0 db = 1 volt per microbar), MC30—76 db (0 db = 1 volt per microbar)

**Impedance:** MC1—1,000 ohms, MC20—1,000 ohms, MC30—1,500 ohms

**Case:** Brass

**Finish:** Cadmium plated

**Terminals:** MC1—Eyelet Solder Type, MC20—1/4" flexible lead type, MC30—Eyelet solder terminals

**Dimensions:** MC1 (Circular) 1/4" diameter, 3/4" thick, MC20 (Rectangular) 1/2" wide, 1/2" long, 3/4" thick, MC30 (Rectangular) 5/8" wide, 5/8" long, .265" thick

**Net Weight:** MC1—121/2 grams, MC20—9.6 grams, MC30—3.7 grams
MICROPHONE ACCESSORIES

MICROPHONE ACCESSORIES

MICROPHONE SWITCHES

“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

ON-OFF PRESS-TO-TALK SWITCHES

Quickly attached to any cable-connector type Shure microphone. These are plug-in units which require only a screwdriver to install. Suitable for use with the following Shure microphones: Models 55, 55A, 55B, 55C, 55S, 51, 315, 737A and 708A.

Model A83B. Rotary-type “On-Off” switch. When “turned on,” it stays on until turned off.

MODEL A83B LIST PRICE $11.00


MODEL A84B LIST PRICE $11.00

Model A85C. Momentary Press-to-Talk Relay-Type switch same as above, but has extra contacts to provide for relay operation.

MODEL A85C LIST PRICE $11.50

CABLE-TYPE TRANSFORMER

Model A86A is a high-quality, cable-type transformer which makes it convenient to run a long microphone line from a low impedance microphone to a high impedance amplifier. Connection terminals are easily accessible, and compression fittings clamp the microphone and amplifier inputs. The A86A matches 35-50 ohm and 150-250 ohm microphones to high impedance amplifier inputs. Solves the problem of excessive high frequency loss and objectionable hum pickup when long lengths of microphone cable are necessary.

SPECIFICATIONS FOR MODEL A86A

LIST PRICE: $17.50

FREQUENCY RESPONSE: 20 to 20,000 cps plus or minus 1 db

IMPEDEANCE: Matches 35-50 ohm and 150-250 ohm microphones to high impedance amplifier input

CASE: Compact, sturdy and magnetically shielded steel

FINISH: Two-tone gray

CABLE: 2 ft.

DIMENSIONS: 5 5/8" long, 2 27/32" diameter

NET WEIGHT: 1 1/4 lbs., shipping weight 1 3/4 lbs.

MICROPHONE EXTENSION CABLES

Here, for the first time, is an easy, convenient way to add extra lengths of cable. These 25-foot extension cables can be attached to existing cables without the use of tools—wiring or soldering.

The A26C, 25 feet long, is a two-conductor, shielded cable with Cannon XL-3-11 and XL-3-12 plugs. It will fit the following Shure microphones and their respective cables: 556S, 525, 530, 300, 330 and 333. LIST PRICE $15.00


DESK STANDS

TAKE-APART STAND

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

MODEL S34B LIST PRICE $4.50

BROADCAST DESK STAND

Model S33. Baked Bronze Finish. For use with Models 300, 333, 525.

MODEL S33 LIST PRICE $15.00

MODEL S33B—Same as S33—in black finish. For use with Models 330, 330, 525, 535, 556S, 415 and 430. LIST PRICE $15.00

MODERN DESK STAND

Model S36A. Streamlined Desk Mount fits all Shure connector-type microphones. Adapter provided for mounting other type microphones. Ideal for use with A88A switch. The S36A is designed for use with all Shure microphones except the 505 Series, 100 Series, 76B and 420 Microphones. Ideal for use with the Shure switches listed on this page.

MODEL S36A LIST PRICE $6.50

SPECIAL STAND

This stand is a heavy die-cast base. Metal screw machine stud connects microphone adapter to stand base.

MODEL S38 for use with 777 Series microphones.

MODEL S38B for use with “Commando” microphone Models 415 and 430.

MODELS S38 AND S38B LIST PRICE $4.50

SWIVEL ADAPTER

Model A25. To be used with Slendyne Models 525, 530 and 535, 777 Series and Commando Models 415 and 430—for use with standard desk or floor stand.

MODEL A25 LIST PRICE $5.50

LAVALIER ASSEMBLY

Model A25L. For use with Slendyne Model 535.

MODEL A25L LIST PRICE $4.50
**TECHNICAL DATA—MAGNETIC TAPE AND WIRE RECORDING HEADS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Recording Speed</th>
<th>Bias &amp; Erase Frequency</th>
<th>Sld* Recording Level</th>
<th>Operating Bias Current</th>
<th>Erase** Current</th>
<th>Impedance Erase Coil</th>
<th>Impedance Recording Coil</th>
</tr>
</thead>
<tbody>
<tr>
<td>815 [Fig. A]</td>
<td>3.75&quot; per sec</td>
<td>25KC</td>
<td>.05 ma</td>
<td>1.25 ma</td>
<td>27 ma</td>
<td>750 ohm at 25KC</td>
<td>1440 ohm at 1000 cps</td>
</tr>
<tr>
<td>815H [Fig. A]</td>
<td>3.75&quot; per sec</td>
<td>DC</td>
<td>.05 ma</td>
<td>1.5 ma</td>
<td>25 ma</td>
<td>1300 ohm at 50KC</td>
<td>1440 ohm at 1000 cps</td>
</tr>
<tr>
<td>815 [Fig. B]</td>
<td>3.75&quot; per sec</td>
<td>50KC</td>
<td>.05 ma</td>
<td>1.25 ma</td>
<td>25 ma</td>
<td>550 ohm at 1000 cps</td>
<td>956 ohm</td>
</tr>
<tr>
<td>815H [Fig. C]</td>
<td>3.75&quot; per sec</td>
<td>DC</td>
<td>.05 ma</td>
<td>1.5 ma</td>
<td>25 ma</td>
<td>1300 ohm at 50KC</td>
<td>1440 ohm at 1000 cps</td>
</tr>
<tr>
<td>TR5 [Fig. C]</td>
<td>3.75&quot; per sec</td>
<td>50KC</td>
<td>.04 ma</td>
<td>1.0 ma</td>
<td>30 mc</td>
<td>750 ohm at 25KC</td>
<td>1440 ohm at 1000 cps</td>
</tr>
<tr>
<td>TR5B [Fig. C]</td>
<td>3.75&quot; per sec</td>
<td>DC</td>
<td>.04 ma</td>
<td>1.0 ma</td>
<td>30 mc</td>
<td>750 ohm at 25KC</td>
<td>1440 ohm at 1000 cps</td>
</tr>
<tr>
<td>TR5N [Fig. A]</td>
<td>3.75&quot; per sec</td>
<td>50KC</td>
<td>.04 ma</td>
<td>1.0 ma</td>
<td>30 mc</td>
<td>750 ohm at 25KC</td>
<td>1440 ohm at 1000 cps</td>
</tr>
<tr>
<td>TR6 [Fig. A]</td>
<td>.025&quot; per sec</td>
<td>25KC</td>
<td>.03 ma</td>
<td>27 ma</td>
<td>750 ohm at 25KC</td>
<td>1440 ohm at 1000 cps</td>
<td></td>
</tr>
<tr>
<td>TR6G [Fig. A]</td>
<td>.025&quot; per sec</td>
<td>DC</td>
<td>.03 ma</td>
<td>27 ma</td>
<td>750 ohm at 25KC</td>
<td>1440 ohm at 1000 cps</td>
<td></td>
</tr>
<tr>
<td>TR6H [Fig. A]</td>
<td>.025&quot; per sec</td>
<td>50KC</td>
<td>.03 ma</td>
<td>27 ma</td>
<td>750 ohm at 25KC</td>
<td>1440 ohm at 1000 cps</td>
<td></td>
</tr>
<tr>
<td>TR16 [Fig. A]</td>
<td>.025&quot; per sec</td>
<td>50KC</td>
<td>.03 ma</td>
<td>27 ma</td>
<td>750 ohm at 25KC</td>
<td>1440 ohm at 1000 cps</td>
<td></td>
</tr>
<tr>
<td>TR26 [Fig. A]</td>
<td>.025&quot; per sec</td>
<td>50KC</td>
<td>.03 ma</td>
<td>27 ma</td>
<td>750 ohm at 25KC</td>
<td>1440 ohm at 1000 cps</td>
<td></td>
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<tr>
<td>TR2 [Fig. B]</td>
<td>.025&quot; per sec</td>
<td>25KC</td>
<td>.03 ma</td>
<td>27 ma</td>
<td>750 ohm at 25KC</td>
<td>1440 ohm at 1000 cps</td>
<td></td>
</tr>
<tr>
<td>TR2G [Fig. B]</td>
<td>.025&quot; per sec</td>
<td>DC</td>
<td>.03 ma</td>
<td>27 ma</td>
<td>750 ohm at 25KC</td>
<td>1440 ohm at 1000 cps</td>
<td></td>
</tr>
</tbody>
</table>

Note: For replacement information, write for free Replacement Manual No. RM-59
MARKET LEADER IN CARTRIDGES, NEEDLES, REPLACEMENT KITS

IMPROVE THE QUALITY OF ALL CONVENTIONAL HOME PHONOGRAPHs!

We make these strong claims: the "Twin Lever" Series of Improvement Cartridges are the finest replacement cartridges ever developed. They set a new high, leaving all other replacement cartridges far behind their level of tone superiority. Individual needle compliance for superior standard and fine-groove response. Unique needle shift design. Needle replacement is fast and easy. No tools are needed. Cartridges do not have to be removed from tone arms.

**REPLACEMENT KITS**

**RK-58 REPLACEMENT KIT**
3 CARTRIDGES REPLACE 92!
The RK-58 contains the models WC6, WC6TM and W9—all "Twin Lever" cartridges—plus a FREE A6S needle assembly which will replace the existing needles in the model WC6 or model WC6TM. (For complete technical features see page 21.) List Price $38.50

**RK-56 REPLACEMENT KIT**
3 CARTRIDGES REPLACE 217!
The RK-56 contains the models WC10, W70 and W72. (For complete technical features see page 21.) List Price $22.95

**RK-54 REPLACEMENT KIT**
3 CARTRIDGES REPLACE 192!
The RK-54 contains the models W22, W26 and W78. (For complete technical features see page 21.) List Price $21.55

**MODEL WC10:**
This 3-speed dual-needle cartridge replaces and out-performs 157 3-speed, plastic cased, ceramic and crystal, turnover and single needle cartridges! See page 21 for technical information.

List Price $14.50

**MODEL W9:**
For the first time... a five-volt phono cartridge with response to 10,000 cps. for improvement-replacement applications! This 3-speed, dual-needle, dual-voltage, crystal cartridge replaces and out-performs 69 high output cartridges. Dramatically improves the sound of low cost, low-gain phonographs. See page 21 for technical information.

List Price $9.50

**MODEL WC6:**
This 3-speed, dual-needle ceramic cartridge is recommended as the finest quality replacement-improvement for all other ceramic cartridges with plastic cases. With the WC6 you can actually improve the reproduction of even the finest quality ceramic cartridges which are currently used for high fidelity applications! See page 21 for technical information.

List Price $9.50

The "MUSIC LOVERS CARTRIDGE" for High Fidelity Systems

The "Music Lovers" Cartridge is a three-speed ceramic cartridge that reproduces all records sharply and clearly. It is equipped for mechanical interchangeability with magnetic pickups, and for direct connection to magnetic inputs of amplifiers, thus allowing the full advantages of compensation circuits.

Model ML44 (SS) List Price $13.95
Model ML44 (DS) List Price $18.95
Model ML44 (DD) List Price $17.90

**PHONOGRAPH PICKUP NEEDLES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>LIST PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5</td>
<td>Fig. B Std. and MG Saphiret</td>
<td>$5.95</td>
</tr>
<tr>
<td>A5H</td>
<td>Fig. B Std. and MG Saphiret</td>
<td>$5.95</td>
</tr>
<tr>
<td>A10</td>
<td>Fig. B Std. and MG Saphiret</td>
<td>$5.95</td>
</tr>
<tr>
<td>A10G</td>
<td>Fig. B MG Diamond, Std. Saphiret</td>
<td>$28.00</td>
</tr>
<tr>
<td>A10S</td>
<td>Fig. E 0003 (3/10 mil) Saphiret</td>
<td>$3.50</td>
</tr>
<tr>
<td>A5SA</td>
<td>Fig. C Std. Osmium</td>
<td>$1.50</td>
</tr>
<tr>
<td>A5SMG</td>
<td>Fig. C MG Kismum</td>
<td>$1.50</td>
</tr>
<tr>
<td>A5M**</td>
<td>Fig. C All Purpose Osmium Unipoint</td>
<td>$1.50</td>
</tr>
<tr>
<td>A5S**</td>
<td>Fig. C All Purpose Osmium Unipoint</td>
<td>$1.50</td>
</tr>
<tr>
<td>A6A</td>
<td>Fig. A Std. Saphiret</td>
<td>$2.50</td>
</tr>
<tr>
<td>A6A</td>
<td>Fig. A Std. Osmium</td>
<td>$1.50</td>
</tr>
<tr>
<td>A6 MG*</td>
<td>Fig. A MG Osmium</td>
<td>$1.50</td>
</tr>
<tr>
<td>A6 M*</td>
<td>Fig. A MG Osmium</td>
<td>$2.00</td>
</tr>
<tr>
<td>A66 W</td>
<td>Fig. A MG Saphiret</td>
<td>$2.50</td>
</tr>
<tr>
<td>A66 U</td>
<td>Fig. A All Purpose Osmium Unipoint</td>
<td>$1.50</td>
</tr>
<tr>
<td>A66 J</td>
<td>Fig. A All Purpose Saphiret Unipoint</td>
<td>$2.50</td>
</tr>
<tr>
<td>A67A</td>
<td>Fig. A Slim Playback Needle - Shaftless Cutting Stylus</td>
<td>$3.50</td>
</tr>
<tr>
<td>A66A</td>
<td>Fig. F MG Saphiret</td>
<td>$2.50</td>
</tr>
<tr>
<td>A67A</td>
<td>Fig. F MG Saphiret</td>
<td>$2.50</td>
</tr>
<tr>
<td>A68D</td>
<td>Fig. 0 Osm. Playback Needle - Stretcher Cutting Stylus</td>
<td>$3.50</td>
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*Standard Bent Shaft Needle Not Illustrated. **Used in Cartridge Models PCID and WC36B. ***Used in Models PC12 and WC38. ****Standard Straight Shaft Needle Not Illustrated. (High-quality ceramic and high priced sapphire specially designed for long operating life. Cannot be replaced by AIN or NT series needles.) Crystal and Ceramic Cartridges manufactured under Shure Patents and Patents Pending.
## Fine Groove Cartridges For 33½, 45 RPM Records

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>ILLUSTRATION</th>
<th>TYPE</th>
<th>LIST PRICE</th>
<th>OUTPUT LEVEL</th>
<th>MIN NEEDLE FORCE</th>
<th>RESPONSE TO</th>
<th>NET WEIGHT</th>
<th>SHURE NEEDLE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WC20*</td>
<td>Fig. C</td>
<td>Ceramic</td>
<td>$6.50</td>
<td>.5V</td>
<td>2½ grams</td>
<td>12,000 cps</td>
<td>2½ grams</td>
<td>A02S</td>
</tr>
<tr>
<td>WC19F</td>
<td>Fig. D</td>
<td>Crystal</td>
<td>$8.50</td>
<td>1.5V</td>
<td>6 grams</td>
<td>12,000 cps</td>
<td>4½ grams</td>
<td>A03S</td>
</tr>
<tr>
<td>WC19AR</td>
<td>Fig. A</td>
<td>Crystal</td>
<td>$7.50</td>
<td>2.1V</td>
<td>7 grams</td>
<td>7,500 cps</td>
<td>5½ grams</td>
<td>A03S</td>
</tr>
</tbody>
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### “Twin-Lever” Cartridges For 33½, 45 And 78 RPM Records

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>ILLUSTRATION</th>
<th>TYPE</th>
<th>LIST PRICE</th>
<th>OUTPUT LEVEL</th>
<th>MIN NEEDLE FORCE</th>
<th>RESPONSE TO</th>
<th>NET WEIGHT</th>
<th>SHURE NEEDLE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WC6</td>
<td>Fig. H</td>
<td>Ceramic</td>
<td>$10.50</td>
<td>1½V</td>
<td>1-½ grams</td>
<td>15,000 cps</td>
<td>7 grams</td>
<td>A02S</td>
</tr>
<tr>
<td>WC17x</td>
<td>Top Mount</td>
<td>Ceramic</td>
<td>$10.50</td>
<td>1½V</td>
<td>1-½ grams</td>
<td>15,000 cps</td>
<td>7 grams</td>
<td>A02S</td>
</tr>
<tr>
<td>W3</td>
<td>Fig. J</td>
<td>Crystal</td>
<td>$9.50</td>
<td>3½V</td>
<td>3½ grams</td>
<td>12,000 cps</td>
<td>7 grams</td>
<td>A03S</td>
</tr>
<tr>
<td>WC18G</td>
<td>Fig. H</td>
<td>Ceramic</td>
<td>$9.50</td>
<td>7½V</td>
<td>7½ grams</td>
<td>12,000 cps</td>
<td>7 grams</td>
<td>A03S</td>
</tr>
<tr>
<td>WC19D</td>
<td>Fig. H</td>
<td>Ceramic</td>
<td>$8.00</td>
<td>7½V</td>
<td>7½ grams</td>
<td>12,000 cps</td>
<td>7 grams</td>
<td>A03S</td>
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### Turnover Cartridges For 33½, 45, And 78 RPM Records

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>ILLUSTRATION</th>
<th>TYPE</th>
<th>LIST PRICE</th>
<th>OUTPUT LEVEL</th>
<th>MIN NEEDLE FORCE</th>
<th>RESPONSE TO</th>
<th>NET WEIGHT</th>
<th>SHURE NEEDLE NO.</th>
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</thead>
<tbody>
<tr>
<td>W22</td>
<td>Fig. D</td>
<td>Crystal</td>
<td>$6.50</td>
<td>1½V</td>
<td>1-½ grams</td>
<td>10,000 cps</td>
<td>4½ grams</td>
<td>A07S</td>
</tr>
<tr>
<td>W22T</td>
<td>Fig. E</td>
<td>Crystal</td>
<td>$9.00</td>
<td>2½V</td>
<td>2½ grams</td>
<td>10,000 cps</td>
<td>7 grams</td>
<td>A07S</td>
</tr>
<tr>
<td>WC24</td>
<td>Fig. F</td>
<td>Ceramic</td>
<td>$8.75</td>
<td>1½V</td>
<td>1-½ grams</td>
<td>12,000 cps</td>
<td>7 grams</td>
<td>A07S</td>
</tr>
<tr>
<td>WC24T</td>
<td>Fig. G</td>
<td>Ceramic</td>
<td>$7.25</td>
<td>2½V</td>
<td>2½ grams</td>
<td>12,000 cps</td>
<td>7 grams</td>
<td>A07S</td>
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<tr>
<td>W25</td>
<td>Fig. K</td>
<td>Ceramic</td>
<td>$9.50</td>
<td>7½V</td>
<td>7½ grams</td>
<td>7,000 cps</td>
<td>6 grams</td>
<td>A07S</td>
</tr>
<tr>
<td>W24G</td>
<td>Fig. L</td>
<td>Crystal</td>
<td>$8.50</td>
<td>3½V</td>
<td>3½ grams</td>
<td>5,000 cps</td>
<td>7 grams</td>
<td>A07S</td>
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### All Purpose Single Needle Cartridges For 33½, 45, 78 RPM Records

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>ILLUSTRATION</th>
<th>TYPE</th>
<th>LIST PRICE</th>
<th>OUTPUT LEVEL</th>
<th>MIN NEEDLE FORCE</th>
<th>RESPONSE TO</th>
<th>NET WEIGHT</th>
<th>SHURE NEEDLE NO.</th>
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</thead>
<tbody>
<tr>
<td>W26</td>
<td>Fig. B</td>
<td>Crystal</td>
<td>$10.00</td>
<td>1½V</td>
<td>1 oz.</td>
<td>10,000 cps</td>
<td>12 grams</td>
<td>A07S</td>
</tr>
<tr>
<td>W28</td>
<td>Fig. A</td>
<td>Ceramic</td>
<td>$7.50</td>
<td>1½V</td>
<td>2½ grams</td>
<td>10,000 cps</td>
<td>5½ grams</td>
<td>A08S</td>
</tr>
<tr>
<td>W66B</td>
<td>Fig. G</td>
<td>Crystal</td>
<td>$7.00</td>
<td>3½V</td>
<td>3½ grams</td>
<td>4,000 cps</td>
<td>12 grams</td>
<td>A08S</td>
</tr>
<tr>
<td>W70</td>
<td>Fig. P</td>
<td>Crystal</td>
<td>$4.95</td>
<td>3½V</td>
<td>3½ grams</td>
<td>5,000 cps</td>
<td>16 grams</td>
<td>A08S</td>
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### Standard Cartridges For 78 RPM Records

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>ILLUSTRATION</th>
<th>TYPE</th>
<th>LIST PRICE</th>
<th>OUTPUT LEVEL</th>
<th>MIN NEEDLE FORCE</th>
<th>RESPONSE TO</th>
<th>NET WEIGHT</th>
<th>SHURE NEEDLE NO.</th>
</tr>
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<tbody>
<tr>
<td>W56N**</td>
<td>Fig. N</td>
<td>Crystal</td>
<td>$10.00</td>
<td>1½V</td>
<td>1 oz.</td>
<td>10,000 cps</td>
<td>12 grams</td>
<td>A08D</td>
</tr>
<tr>
<td>W66F</td>
<td>Fig. G</td>
<td>Crystal</td>
<td>$7.50</td>
<td>1½V</td>
<td>1 oz.</td>
<td>4,500 cps</td>
<td>12 grams</td>
<td>A06S</td>
</tr>
<tr>
<td>W78B</td>
<td>Fig. M</td>
<td>Crystal</td>
<td>$5.55</td>
<td>4½V or 2½V</td>
<td>1 oz.</td>
<td>6,000 cps</td>
<td>12 grams</td>
<td>None</td>
</tr>
</tbody>
</table>

*With .453 Mount for Oak Changer.
**Cutter-Cartridge for Wilcox Gay “Recordette.” Equipped with bifurcated needle.
---

*All Purpose Single Needle Cartridges:* Over 80 models are shown here. The Weight-Slug Cartridge is the most popular, being three times as strong as the common single cartridge. A wide range of response and output levels are available in this group. These cartridges are designed for use with any type of record changer and can be interchanged with standard cartridges of any other manufacturer.

*Standard Cartridges:* These are designed for use with any type of record changer and can be interchanged with standard cartridges of any other manufacturer.

---

*With .453 Mount for Oak Changer.*

---

*With capacitor furnished as accessory. Without capacitor, output is 0.6 volts. With capacitor, output is 0.8 volts. (Not a turnover type.)*

---

*With .453 Mount for Oak Changer.*

---

*With .453 Mount for Oak Changer.*

---

*With .453 Mount for Oak Changer.*

---

*Top mounting for Magnavox cartridge replacement.*

---

*Note: For replacement information, write for free Replacement Manual No. RM-59*
NOTE: While the Shure Stereo Studio Dynetic is completely compatible for excellent reproduction of both stereophonic and monophonic records, a monophonic Studio Dynetic cartridge is available for those music lovers who prefer its lighter, 1-gram tracking of monophonic records. If you are one of these perfectionists, you will be pleased to know that, with the Shure Studio Stereo Dynetic, you can change in 3 seconds from a Stereophonic to a Monophonic Cartridge (or vice versa). No tools are needed—you simply pull out one cartridge and plug in the other!

SPECIAL FEATURES

1. MINIMIZES RECORD AND NEEDLE WEAR
   Incredibly light tracking—1½ to 2½ gms.—reduces record and needle wear to absolute minimum.

2. MAXIMUM RECORD REPRODUCTION AND PROTECTION
   Shure Studio Dynetic permits 3-second interchange of Stereophonic and Monophonic Dynetic cartridges. (Leading audio authorities recommend fine quality monophonic cartridges for the ultimate in monophonic record reproduction and record protection. See No. 10 below.)

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

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

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

6. 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.

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

8. 10-SECOND STYLUS REPLACEMENT
   Stylus replacement is exceptionally simple and fast—requires no special skill or tools. Unique design assures correct positioning.

9. 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.

10. UNEQUALLED COMPATIBILITY
    Both models M216 and M212 play stereo discs stereophonically, monophonic discs monophonically. For perfectionists who demand the ultimate in monophonic record reproduction and protection, the Shure Studio Dynetic monophonic cartridge (Model M1) can be used in place of the stereophonic cartridge (Model M-21). (See No. 2 above.)

11. 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.
... 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 0.62-2.7 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.

DATED PHILE TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>STEREOPHONIC</th>
<th>MONOPHONIC</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Model M216</td>
<td>Model M16</td>
</tr>
<tr>
<td>Tracking Force</td>
<td>1.5-5.0 lbs</td>
<td>1.5 lbs</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>10-20000 Hz</td>
<td>50-20000 Hz</td>
</tr>
<tr>
<td>Cylindrical Separation</td>
<td>4.8 mil per cent (600000/44,000 Hz Test Record)</td>
<td>10 mil per cent</td>
</tr>
<tr>
<td>Sensitivity Output at 1000 Hz</td>
<td>0.45 mV per cent</td>
<td>0.45 mV per cent</td>
</tr>
<tr>
<td>Recommended load impedance</td>
<td>5000 ohms</td>
<td>5000 ohms</td>
</tr>
<tr>
<td>Compliance Vertical*</td>
<td>1.2 x 10^-6 inches/dyne</td>
<td>1.2 x 10^-6 inches/dyne</td>
</tr>
<tr>
<td>Compliance Lateral*</td>
<td>2.0 x 10^-6 inches/dyne</td>
<td>2.0 x 10^-6 inches/dyne</td>
</tr>
<tr>
<td>D.C. Resistance</td>
<td>1000 ohms</td>
<td>1000 ohms</td>
</tr>
<tr>
<td>Needle tip mass</td>
<td>1.3 milligrams</td>
<td>1.3 milligrams</td>
</tr>
<tr>
<td>Stylus</td>
<td>.001 inch diamond</td>
<td>.001 inch diamond</td>
</tr>
</tbody>
</table>

*applies to stereo units only

DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>Model M216</th>
<th>Model M16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length</td>
<td>14½&quot;</td>
<td>11½&quot;</td>
</tr>
<tr>
<td>Style tip to center of arm base</td>
<td>11½&quot;</td>
<td>8½&quot;</td>
</tr>
<tr>
<td>Arm base diameter</td>
<td>2&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
<td>Range of height adjustment</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
</tr>
<tr>
<td>Arm pivot to turntable center</td>
<td>10½&quot;</td>
<td>8½&quot;</td>
</tr>
<tr>
<td>Net weight (arm and cartridge)</td>
<td>11 oz.</td>
<td>10½ oz.</td>
</tr>
</tbody>
</table>

CATALOG NUMBERS, PRICES

STEREOPHONIC UNITS

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

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

Model M21—Studio Stereo Dynetic Cartridge with .0007" Diamond Stylus. Audiophile Net: $49.50

Model N21—Replacement Stereophonic stylus assembly for Model M21, M212, 0007" Diamond tip. Audiophile Net: $24.75

Model A70C—Stereo Cable Assembly for connecting M212 or M216 to preamplifier and amplifiers. Assures maximum performance and greatest ease of installation. Audiophile Net: $1.95

MONOPHONIC UNITS

Model M16—Monophonic Studio Dynetic for records up to 16" including Model M1 cartridge with .0007" Diamond Stylus. Audiophile Net: $79.50

Model M12—Monophonic Studio Dynetic for records up to 12" including Model M1 cartridge with .0007" Diamond Stylus. Audiophile Net: $79.50

Model M1—Monophonic Studio Dynetic Cartridge for LP records with .0007" Diamond Stylus. Audiophile Net: $42.00

Model M2—Monophonic Studio Dynetic Cartridge for 78 rpm records with .0027" Diamond Stylus. Audiophile Net: $42.00

Model N1—Replacement Monophonic Studio Dynetic Stylus with .0007" Diamond tip. Audiophile Net: $21.00

Model N2—Replacement Monophonic Studio Dynetic Stylus with .0027" Diamond tip. Audiophile Net: $21.00

Model A29R—Adapter Plate for use with Model M12 or M212 for mounting purposes with the Rek-O-Kut turntable. Audiophile Net: $2.40

See back page for separate cartridges
**PROFESSIONAL**

**Stereo Dynetic**

**Model M3D**

**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: 50,000 ohms.

Compliance: Vertical, Lateral 4.0x10⁻⁶ 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 V/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

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**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 economically 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.

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**MONOPHONIC**

**Dynetic**

**Model M5D**

**SPECIFICATIONS**

Frequency Response: 20 to 20,000 cps.

Sensitivity: Output at 1,000 cycles—21 millivolts for 10 cm/sec.

Recommended Load Impedance: 27,000 ohms.

Compliance: 3 x 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 microgroove records, 33⅓, 45 r.p.m.

Model M6S - has .003" sapphire for use with standard records, 78 r.p.m.

Model M5S - has .001" diamond stylus. Audiophile Net: $27.50

Model M6S - has .003" sapphire stylus. Audiophile Net: $15.00

Model N5S - Monophonic Professional Dynetic Stylus with .001" diamond tip. Audiophile Net: $5.00

Model N6S - Monophonic Professional Dynetic Stylus with .003" sapphire tip. Audiophile Net: $5.00

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**FOR THE CRITICAL EAR...**

SHURE BROTHERS, INC. ♦ 222 HARTREY AVENUE ♦ EVANSTON, ILLINOIS, U.S.A.

For information on the superlative Shure "Integrated" Stereo Studio Dynetic Tone Arm see pages 22, 23.