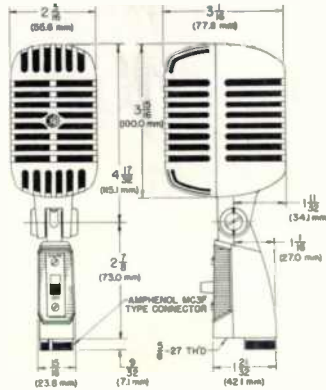


Models 55S and 55SW "H" Position
 Open Circuit Voltage Level..... 55.5 db* (1.68 mv)
 Loaded with 100,000 ohms..... 57.5 db*
 EIA Microphone Rating Gm (Sensitivity)—151.5 db***
 (*) 0 db = 1 Volt Per Microbar
 (**) 0 db = 1 Milliwatt with 10 Microbars
 (***) EIA Standard SE-105, August 1949.

Cable: 15 foot (4.6 m) two-conductor shielded with Amphenol MC3M type microphone plug on the microphone end.
 Case: Chrome-plated die cast.
 Dimensions: See Figure D.

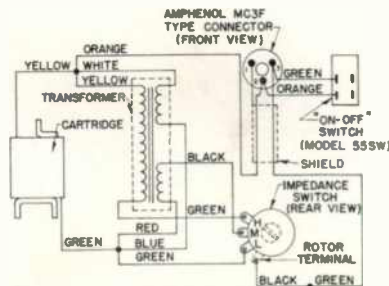
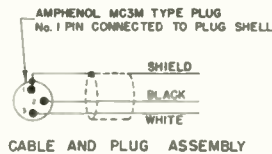


OVERALL DIMENSIONS
 Figure D

Switch: Model 55S None
 Model 55SW Built-in "ON-OFF" switch to control microphone circuit. The switch is an integral part of the receptacle assembly and is a slide-to-talk locking type switch.

Net Weight (Less Cable): 1 5/8 pounds (736 grams)

Packaged Weight: 3 1/8 pounds (1,417 grams)



CIRCUIT DIAGRAMS
 Figure E

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SHURE

MICROPHONES AND ELECTRONIC COMPONENTS

AREA CODE 312/328-9000 • CABLE SHUREMICRO

MODELS 55S AND 55SW UNIDYNE II

Studio 2

UNIDIRECTIONAL DYNAMIC MICROPHONES

General: The Models 55S and 55SW are extremely rugged microphones built to provide wide range reproduction of music and voice. The Cardioid unidirectional characteristic of the microphones provides highly satisfactory operation under adverse acoustic conditions where omnidirectional microphones may not operate properly. These microphones can be used closer to loudspeakers than usual, without creating feedback problems.

The Models 55S-Gold and 55SW-Gold are identical to the Models 55S and 55SW respectively except Models 55S-Gold and 55SW-Gold have gold finish.

The Models 55S and 55SW are ideal for high quality public address, theatre-stage sound systems, remote broadcasting recording applications and other sound applications such as those used in hotels, stadiums, and public auditoriums.



The Models 55S and 55SW are multi-impedance for connections in a 25-50 ohm line, 150-250 ohm line, or high impedance.

The low impedances are recommended where long cable lengths are required or under conditions of severe hum disturbance. The permissible cable length is practically unlimited, since neither response nor level is appreciably affected. For use with high impedance amplifiers, Shure Model A95A Line Matching Transformer is available for coupling the low impedance line to the amplifier input.

Impedance Selection

Selection of the various impedances is accomplished by changing the position of the switch at the rear of the microphone. The switch positions are marked "L" for low impedance (25-50 ohms), "M" for medium impedance (150-250 ohms), and "H" for high impedance (35,000 ohms).

When using the microphone in low impedance, the black and white conductors are the "hot" conductors for balanced line connections to a standard low or medium impedance input amplifier; the shield lead is connected to the chassis or amplifier ground.

The microphones feature:

- An effective cardioid directional characteristic especially adapted for optimum performance in adverse acoustic environments.
- Response effective for announcing, narration, vocal music, and combo groups.
- Cartridge shock mounted for quiet operation.
- A strong detachable cable especially selected for good shielding from "hum" pickup.
- Very rugged mechanical design for reliable operation under severe conditions of use.
- A self-tensioning swivel permits tilting through 45° forward and 80° backward.

When using the microphone in high impedance, the white conductor is the "hot" conductor for connection to a high impedance amplifier; the black conductor and the shield are connected to the chassis or amplifier ground.

OPTIONAL ACCESSORIES

Line Matching Transformer.....A95A
 Vibration-Isolation Stand.....S39A
 Desk Stand.....S36A
 Quick-Disconnect Isolation UnitModel A47
 Carrying CaseModel AC55

Guarantee: Each microphone is guaranteed to be free from electrical and mechanical defects for a period of one year from date of shipment from factory provided all instructions are complied with fully. In case of damage, return the microphone to the factory for repairs. Our guarantee is voided if the microphone is subject to accident or abuse or if the case is opened.

MODELS 55S AND 55SW Architect's Specifications

The microphone shall be Shure Model 55S, 55SW, or equivalent. The microphone shall be a moving coil type microphone with a frequency range of 50 to 15,000 Hz. This unit shall have a Cardioid horizontal polar characteristic. The cancellation at the sides shall be approximately 6 db and the cancellation at the rear shall be in the order of 15 db. The microphone shall be equipped with a three-position impedance change switch for adjusting the microphone rating impedance to 38 ohms, 150 ohms or 40,000 ohms. The Model 55SW shall have a built in "ON-OFF" switch. The Model 55S shall have no "ON-OFF" switch. The microphone rating Gm (Sensitivity) at 1,000 Hz. shall be within ± 3 db of the following levels:

"L" Position of switch — 148.0 db
 "M" Position of Switch — 148.5 db
 "H" Position of Switch — 151.5 db
 EIA Standard SE-105 August 1949

The microphone shall be provided with a swivel and it shall have a detachable cable connector capable of connection to a two-conductor shielded cable. The microphone will mount on stand having $\frac{5}{8}$ "-27 thread. The overall dimensions shall be $7\frac{3}{8}$ (187.3 mm) $\pm \frac{1}{4}$ inches in height, $2\frac{3}{16}$ (55.6 mm) $\pm \frac{1}{8}$ inches in width, and $3\frac{1}{16}$ (77.8 mm) $\pm \frac{1}{8}$ inches in depth.

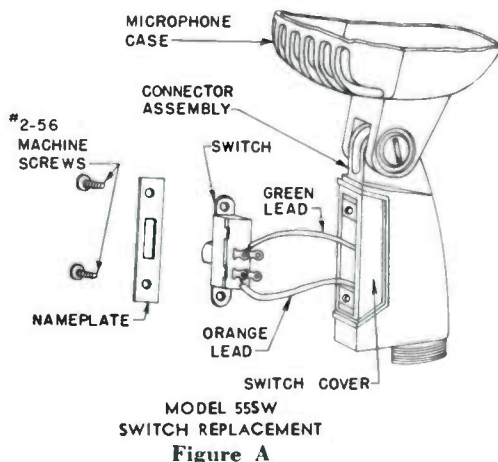
REPLACEMENT COMPONENTS

Dynamic CartridgeModel R55
 SwitchModel 55A38
 Cable and Plug Assembly..Model C55

INSTALLATION AND CONNECTION OF SWITCH

A. To install the 55A38 Replacement Switch in the Shure Model 55SW, proceed as follows:

1. Remove the two No. 2-56 screws holding the nameplate and cover to the connector assembly.
2. Remove the nameplate and take switch out of the switch cover on connector assembly.
3. Unsolder leads from old switch terminals.
4. Connect the leads to the new replacement switch. Observe lead color and terminal arrangements as in Figure A.



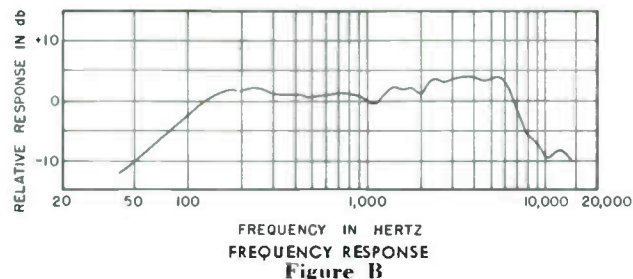
5. Re-assemble switch and nameplate back into the connector assembly and fasten the No. 2-56 screws securely.

Important: Shure Microphone Cables are selected after exhaustive tests to insure superior performance in microphones because of low capacities, superior shielding properties and unusually long life under severe use.

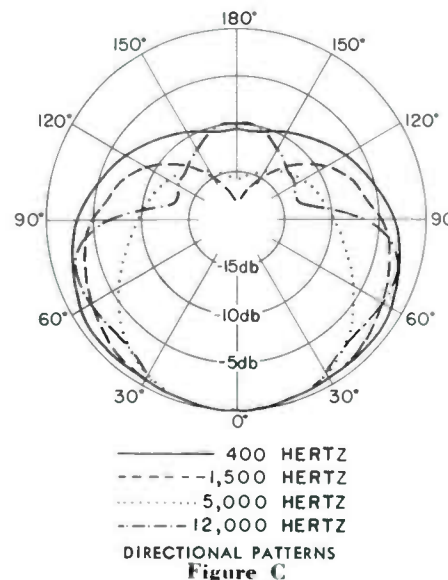
Cables with plastic insulation should not be subjected to excessive soldering-iron heat. Carefully clean and tin the conductors and the connections to which the conductors are to be soldered. The soldering operation can then be done with a minimum of heat, thereby avoiding any possibility of damage to the cable.

SPECIFICATIONS

Type: Dynamic
 Frequency Response: 50 to 15,000 Hz. See Figure B.



Polar Pattern: Cardioid (Unidirectional) Response at rear down 15 db from front. See Figure C.



Impedance: Equipped with multi-impedance switch, furnishing a choice of 3 impedances: "L" for 25-50 ohms; "M" for 150-250 ohms; and "H" for high impedance.

Output Level: 1,000 Hz. response

Models 55S and 55SW "L" Position

Open Circuit Voltage Level.....	83.0 db* (0.071 mv)
Loaded with 50 ohms.....	87.5 db*
Power Level into 50 ohms.....	55.5 db**
EIA Microphone Rating Gm (Sensitivity).....	148.0 db***

Model 55S and 55SW "M" Position

Open Circuit Voltage Level.....	77.0 db* (0.141 mv)
Loaded with 250 ohms.....	81.0 db*
Power Level into 250 ohms.....	56.5 db**
EIA Microphone Rating Gm (Sensitivity).....	148.5 db***