



Reslo
“Studio”
Ribbon Microphone
TYPE SR 1

Made in England

INSTRUCTIONS
AND
TECHNICAL DATA

RESLOSOUND LIMITED

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INSTRUCTIONS AND TECHNICAL DATA

GENERAL DESCRIPTION

The Reslo "Studio" professional ribbon microphone follows the tradition and construction set by the world famous R.B. miniature ribbon series, but has the main frame with the front and rear shells made slightly longer to accommodate the more powerful magnet assembly. This gives greater energy in the magnet gap, and results in improved sensitivity, and extended frequency response.

The microphone has been specially developed for use by broadcasting authorities, and professional recording studios throughout the world, and is manufactured to the highest possible standards. The S.R.1 is available in two alternative impedances, the professional studio one of 300 ohms—Model SR1/M, and the now more usual "low impedance" one of 30-50 ohms (nominal)—Model SR1/L.

The ribbon element, consisting of a moulded plastic frame to which the ribbon is secured, is mounted on the magnet assembly which is suspended in the main frame by four foam rubber pads. The ribbon is placed in the front shell (the label side) and only the minimum possible internal protective screens are provided.

The alternative high quality 300 or 30-50 ohm line transformers are mounted with the connecting socket in the tubular base below the hinge mounting. Both transformers allow the use of long balanced and screened microphone lines without appreciable losses or interference. The microphone internal connections are balanced to ensure minimum external field pick-up.

The average response curve against which the performance of each microphone is checked within 2dB, is shown on page 4. The microphone head is packed in a special padded polished hardwood instrument case. The cable, plug connector and set of five alternative mounting adaptors are packed in a special sleeve surrounding the instrument case which is mounted in the carton so that the microphone ribbon edge is vertical during the storage period before use.

The plug connector cable set supplied with the microphone consists of 18 feet of twisted screened flexible cable with PVC insulated sheath. The cable may be run either internally or externally as an optional side exit slot is provided in the connector body. A full set of mounting adaptors is provided together with a resilient mounting unit or "Stand damper" with a combination of alternative threads, internal and external, to suit the majority of stands now available. Full details are given on pages 6 and 7 together with details of the boom suspension unit illustrated in the technical sales leaflet.

CAUTION.—Due to the minimum internal air screens this microphone **MUST** be handled professionally as otherwise the ribbon assembly may be quickly damaged. Close lid of instrument case, gently.

A boom suspension unit with loops for attaching to the boom springs or suspension rubbers and complete with length of screened and twisted cable as required, is available to special order.

ALTERNATIVE RESPONSE CHARACTERISTIC

The frequency response and acoustic pick-up characteristic may be changed when required by fitting the special acoustic damping pad, included in the pack, to the rear shell. The damping pad provides a measure of back to front discrimination together with bass response roll-off to give very high quality speech reproduction.

IMPORTANT WARNING

The powerful permanent magnets incorporated in the SR1 type microphone, strongly attract all iron and steel dust particles. Every care must be taken therefore, to avoid exposure to magnetic dust, filings, etc., or the performance of the microphone may rapidly deteriorate.

Do not test the SR1 microphone with a battery operated ohmmeter, but use an audio amplifier and loudspeaker with a tone generator attenuated by approx 60dB.

Do not blow into the microphone and when not in use keep in the padded instrument case. Always handle carefully, avoid heavy knocks or jolts and close instrument case lid gently.

TECHNICAL SPECIFICATION

Frequency response: Smoothly maintained, ± 2 dB over the range 30 c/s to 20,000 c/s.

Sensitivity: 73 dB below 1 Volt/dyne/cm². (300 ohms impedance).

Polar Response: Nominal figure of 8. This may be modified for high quality speech reproduction by fitting the special acoustic damping pad provided.

Dimensions: From top of frame to swivel screw; $3\frac{1}{2}$ inches (88.9 mm.) Frame width; $1\frac{1}{2}$ inches (38.1 mm.)

T-base swivel screw to the plug connector; $2\frac{3}{8}$ inches (60.3 mm.)

Weight: Head only 11 oz. (0.312 Kg.).

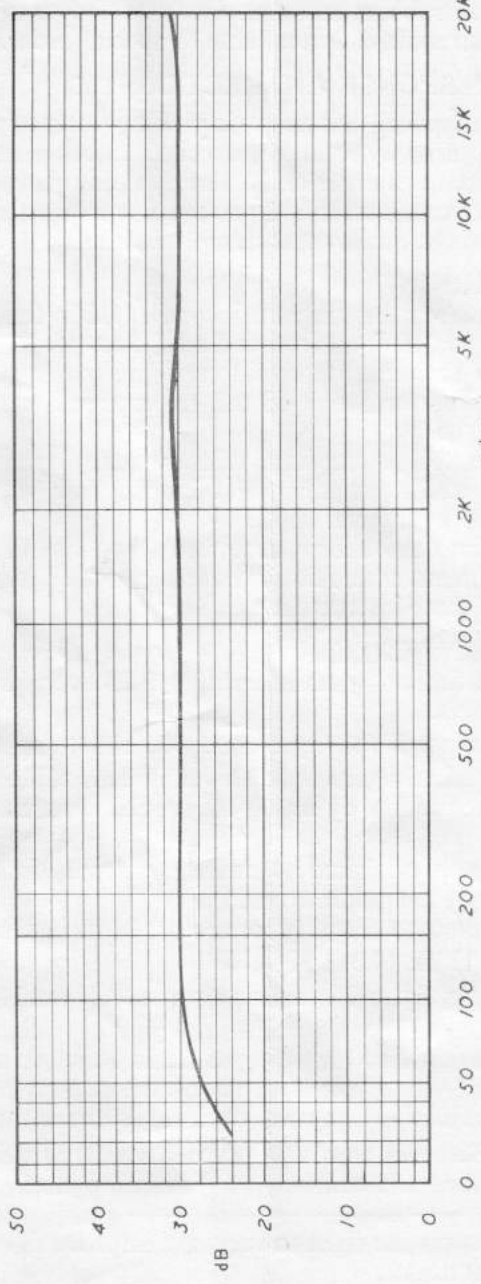
Finish: Non-reflecting, Satin Florentine Bronze. Alternative finishes to special order.

Construction: Head, mounted for tilting as Reslo R.B. series, on "T" (tubular) base fitted with Reslo T.C. socket connector. Maximum angle of tilt from vertical, 45 degrees, backwards or forwards.

Connecting Cable Set: Six yards of screened and twisted P.V.C. sheathed cable supplied and connected to mounting plug.

Reslosound Ltd., reserve the right to vary and improve the technical specification without notice.

LINE DRAWING FROM B & K A.F.A. RECORDER,
MEASURED ON AXIS AT 1 METRE INTO FRONT OF MICROPHONE.



AVERAGE FREQUENCY RESPONSE CURVE OF
RESLO SRI/M 'STUDIO' MICROPHONE

APPROVED	9.9.62
ENGINEERS	
RESLO SOUND LTD.	DRWG.
ROMFORD.	ESSEX.
	SR 508

INSTALLATION INSTRUCTIONS

The microphone is supplied without any form of internal acoustic damping, and is thus immediately suitable for high quality recording or music relay purposes, with a well maintained 'figure of eight' field of response. This characteristic may be modified for high quality speech reproduction as described below.

The microphone is assembled with the ribbon unit in the front shell (the label side), and the magnet assembly in the rear shell. Internal screens fitted are the minimum possible, and under no circumstances should any user blow into the front or rear shells.

The microphone head can be tilted 45 degrees backwards or forwards so that when fixed to a suitable floor stand it can either be mounted low with the lead tilted backwards, at medium height, (4 ft. 6 ins.) with the head vertical or much higher, (5 ft. to 6 ft.) with the head tilted forwards. Depending on the type of sound being picked up, one of these arrangements will give the most natural quality of reproduction, the frequency response extending smoothly from 30 c/s to over 20 kc/s.

CHANGING THE RESPONSE CHARACTERISTIC

for high quality speech reproduction.

- (1) Remove from the plastic bag the special acoustic correction pad taking care to keep it clean and free from metallic dust.
- (2) Remove the top screw from the microphone and ease back the REAR shell (non label side) at the top when it will disengage after slight downward pressure.
- (3) Insert the special correction pad into the shell, ensuring a firm fit without unnecessarily compressing the material.
- (4) Replace the rear shell fully to the frame at the base, and bring together at the top depressing the clip slightly to permit entry. Note carefully that the bottom clip is seated on the spigot, and that the front shell is not ejected.
- (5) The front shell will only require removal for service. When necessary, first partially remove the REAR shell as described above, then press out the FRONT shell top clip by the rear shell top clip until the front shell clip is free, then after removing the REAR shell jiggle the front shell gently, slightly lifting upwards until its bottom clip comes clear of the locating spigot at the base.
- (6) To replace the shells reverse the above procedure.
- (7) When replacing top screw, first make sure that clearance holes and tapped hole are all in line.

CLOSE USE CAUTION.—The SR1 microphone has been designed for high quality Studio music and speech reproduction. 'Intimate' use of the microphone will result in heavy condensation of the performer's breath on the ribbon and magnet assembly which may cause corrosion and rusting with early failure of the instrument.

SPECIAL NOTE

Do not open the microphone unnecessarily, and when out of use keep in the special padded instrument case provided.

CABLE SETS AND MICROPHONE CONNECTIONS

A 6 yard length of twin twisted and screened flexible cable is supplied with each microphone.

The cable plug connector has three pins: the pin next to the locating tongue is pin 'A', that close to it is pin 'B', and the one at a distance is pin 'C'. The plug connector is unmarked, without any coloured dot.

The cable sets are connected as follows:

Red flexible wire to pin 'A'.

Black flexible wire to pin 'B'.

Outer screening to pin 'C'.

The microphone socket is colour coded with a dot on the black moulding to indicate the impedance.

WHITE dot—30-50 ohms.

GREEN dot—300 ohms.

The microphone socket is connected as follows:

Sockets 'A' and 'B' to the line transformer.

Socket 'C' to tubular body and magnet assembly.

MOUNTING THE MICROPHONE

The plug connector supplied with the microphone allows either internal cable runs or external if preferred, by means of an optional cable exit slot provided in the side. At the cable end the plug connector is provided with an external $\frac{5}{8}$ inch diameter thread, 27 tpi. In addition, a set of five mounting adaptors are supplied including a resilient coupling or 'Stand damper' which allows alternative fittings of $\frac{1}{2}$ inch diameter 26 tpi internal and external or $\frac{5}{8}$ inch diameter 27 tpi internal and external, enabling the microphone to be fitted to the majority of available floor stands.

The set of five mounting adaptors provided with the SR1 microphone is as follows:—

- (1) 'Stand damper': internal $\frac{5}{8}$ inch, 27 tpi both ends.
- (2) Knurled sleeve as alternative to above; internal $\frac{5}{8}$ inch, 27 tpi both ends.
- (3) Knurled sleeve; internal $\frac{5}{8}$ inch, 27 tpi and internal $\frac{1}{2}$ inch, 26 tpi.
- (4) Reducer; $\frac{5}{8}$ inch, 27 tpi external to $\frac{1}{2}$ inch, 26 tpi internal.
- (5) Reducer; $\frac{5}{8}$ inch, 27 tpi external to $\frac{1}{2}$ inch, 26 tpi external.

BOOM SUSPENSION UNIT

A boom suspension plug connector unit with loops for attaching to the boom springs or suspension rubbers and complete with 6 yard length of twin twisted and screened microphone cable, or other lengths as required, is available to special order. Details sent on request.

PERFORMANCE AND WORKMANSHIP

Reslosound Ltd. have taken every possible care to make a satisfactory and reliable product, and each microphone is carefully examined, tested and packed to ensure that it reaches the dealer or user in perfect condition.

Should, however, the Microphone fail to work properly it should be returned to the Reslo Works for examination, with a label attached giving details of the unsatisfactory performance, date of purchase and name and address of the Supplier.

Reslosound Ltd. then reserve the right to consider on its merits each individual case, and to decide what repair or handling charge should be made, if any. In all cases, Reslosound Ltd. undertake to give the maximum possible assistance to users of their equipment.