

LIT. 1900

Issue 6



*Reslo*  
*Miniature*  
*Ribbon Microphone*  
**TYPE RB**

*Made in England*

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**INSTRUCTIONS**  
**AND**  
**TECHNICAL DATA**

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**RESLOSOUND LIMITED**

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## MINIATURE RIBBON MICROPHONE—TYPE RB

The type RB microphone is now supplied in two main forms only:—

- RBT** with “T” base—a die cast tubular mounting containing the line transformer and connecting socket.
- RBTS** with “T” base—as above, but lengthened to accommodate a slide type on-off switch.

Both types are available in five impedance values:

RB/L	30-50 ohms	(single impedance)
RB/M	250 and 600 ohms	(dual impedance)
RB/H	30-50 ohms and Hi-Z	( “ ” )
RB/S	30-50 and 1,000 ohms	( “ ” )
RB/Y	30-50 and 10,000 ohms	( “ ” )

Models ‘S’ and ‘Y’ are manufactured to special quantity orders only.

Since January 1964, RB microphones have been fitted with ribbons made from an improved material which has a much greater resistance to breath condensation corrosion, than that originally used. The new material requires additional acoustic resistance for optimum results and this is provided in the form of a very fine fibre glass pad fitted in the rear shell of each microphone adjacent to the ribbon.

L and M impedance models (also the special S and Y versions) are issued from the works with the fibre pad only, which gives the very level frequency response described below, with a figure of 8 field of sound pick-up suitable for high quality recordings and music relay.

H impedance models are fitted with the fibre pad at the rear and one black felt “acoustic correction” pad at the front to allow immediate close use under “intimate” conditions without damage from blowing or breath condensation. The black felt pad also gives a useful degree of bass response correction required by the close working conditions.

When any other combination of the acoustic correction pads are fitted to suit individual requirements for announcing, sound reinforcement or Public Address as described on the next page, the yellow fibre pad **MUST** be in place in the rear shell next to the ribbon.

The RB microphone is assembled with the ribbon itself towards the rear shell of the case and the magnets towards the front shell. This is to reduce the possibility of damage to the ribbon, should the performer blow into the front of the microphone or attempt “intimate” use before fitting the appropriate combination of acoustic pads.

*Note that the red Reslo label is fitted to the FRONT of the “T” and “TS” models and that the head tilts backwards only.*

For recording speech and music when the sound source will be 18 ins. or more away from the microphone, adjust the head so that it is upright on its hinged mount and turn the normal REAR side towards the sound to be recorded. This will give the most natural reproduction with a smooth and level frequency response extending from below 50 c/s to over 14 Kc/s.



## CHANGING THE RESPONSE CHARACTERISTIC

- (1) Take the set of special acoustic correction pads (supplied with each microphone) see that they are clean and free from metallic dust.
- (2) Remove top screw from microphone, ease back REAR shell at top when it will disengage and expose the yellow fibre glass pad.
- (3) For bass reduction, insert one felt fully into the shell—for bass reduction with rear discrimination, insert one felt and then the yellow fabric. Replace fibre glass pad, handling carefully.
- (4) For close talking, insert felt-fabric-felt.
- (5) For 'intimate' singing or crooning very close to the microphone, insert one felt followed by the yellow fabric in the REAR shell and the remaining felt pad in the FRONT shell. (See 8 below)
- (6) Do not interfere with the inner nylon fabric filter.
- (7) Replace rear shell fully to body at base; bring together at top, depressing the clip to permit entry. Note carefully that the front shell is not ejected.
- (8) It is not normally necessary to remove the front shell, but when required, as in (5), press out the front shell top clip by the rear shell top clip until the front shell clip is free, then jiggle the front shell until the bottom clip comes clear of locating spigot at base.

**CAUTION.**—'Intimate' use of the microphone without the use of the front pad may result in heavy condensation of the performer's breath on the ribbon and magnet assembly, causing corrosion and rusting with early failure of the instrument.

### SPECIAL NOTES:

Do not open the microphone without cause and when out of use keep covered with the protective sheath provided.

The ribbon is mounted in a replaceable plastic frame to allow easy changeover to a spare when required. Reslo spare part no. RB 056A.

A special user's repair kit with service instruction booklet is also available. Reslo spare part no. RB400.

### CABLE SETS FOR RB SERIES MICROPHONE

The appropriate cable and mounting connector is supplied with each microphone. The connectors are colour coded with a dot on the plug moulding between the three pins.

WHITE	=	30-50 ohms	ORANGE	=	1000 ohms
GREEN	=	250 ohms	YELLOW	=	10,000 ohms
BLUE	=	600 ohms	RED	=	Hi-Z



The cable connectors have three pins: the pin next to the locating tongue is pin "A", that close to it is pin "B", that at a distance is pin "C".

The various cable sets are connected as follows:—

*RB/L (30-50 ohms) microphone*

Red to "A" and Black to "B"  
No connection to "C"  
Screening to plug body

*RB/M (250 ohms) microphone*

As RBL microphone

*RB/H (30-50 ohms) microphone*

As RBL microphone

*RB/M (600 ohms) microphone*

Red to "A" and Black to "C"  
No connection to "B"  
Screening to plug body

*RB/H (Hi-Z) microphone*

Co-ax type cable, connected  
centre conductor to "A"  
No connection to "B"  
Outer screening divided to "C"  
and plug body

#### Other Models

*RB/S (30-50 ohms) microphone*

As RBL microphone

*RB/Y (30-50 ohms) microphone*

As RBL microphone

*RB/S (1,000 ohms) microphone*

As RBH (Hi-Z) microphone

*RB/Y (10,000 ohms) microphone*

As RBH (Hi-Z) microphone

Although six different code marks (the coloured dots) are used on various cable sets, there are physically only three types as follows:—

**LOW IMPEDANCE TYPE.** These are marked with white or green dots in the connecting plug which is fitted with screened twin twisted cable.

**HIGH IMPEDANCE TYPE.** These are marked with red, orange or yellow dots in the connecting plug which is fitted with a screened flexible co-ax type cable.

**MEDIUM IMPEDANCE TYPE.** This is marked with a blue dot in the connecting plug which is fitted with screened twin twisted cable, but arranged for "high impedance" connection and is only used with the 600 ohm model microphone.

It will be seen from the above that the use of differently marked cables is merely a convenience, the different impedances being arranged by different types of line transformers incorporated in the various models of RB microphones.

#### PERFORMANCE AND WORKMANSHIP

Reslosound Ltd. take 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 the best possible condition.

Should, however, the microphone fail to work properly it should be returned to Reslosound Ltd., Reslo Works, Spring Gardens, Romford, Essex for examination with a label attached giving details of the unsatisfactory performance, date of purchase and name and address of the supplier, user or purchaser.

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.



## RESLO RIBBON MICROPHONE—TYPE RB—IMPROVED RIBBON MATERIAL

**SPECIAL NOTE.** This microphone incorporates a ribbon made from an improved material having a much greater resistance to breath condensation corrosion and also incorporates an essential acoustic resistance in the form of a very fine fibre glass pad fitted in the rear shell adjacent to the ribbon.

L. and M. impedance models (also special S. and Y. models) are fitted with the fibre pad only which gives a figure of 8 field of sound pick up suitable for high quality recordings and music relay, as described in the Instruction leaflet.

H. impedance models have the fibre pad at the rear and one black felt pad at the front to allow "intimate" close vocal use with bass reduction and freedom from breath condensation.

When the other black felt or yellow fabric acoustic correction pads are fitted to suit individual requirements as described in the Instruction booklet, the fibre pad **MUST** be in place in the rear shell next to the ribbon.

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