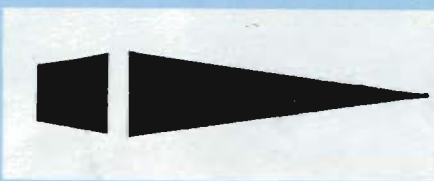


Transistor Portable **TR82**



# BUSH

OPERATING INSTRUCTIONS AND GUARANTEE



## BUSH RADIO

A DIVISION OF THE RANK ORGANISATION



POWER ROAD · CHISWICK · LONDON W4 · ENGLAND Telephone : CHISWICK 6491  
Telegrams : Supasetz Chisk London · Cables : Supasetz London

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TWP Services Ltd.

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# OPERATING INSTRUCTIONS FOR MODEL TR82

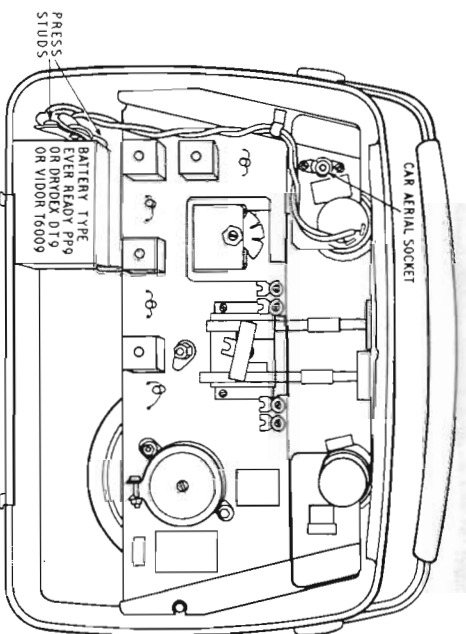


Fig. 1. Rear view of receiver with the back off.

- BUSH**
- Television
- Radiograms
- Record Players
- Transistor Radios
- Tape Recorders

## OPERATING THE RECEIVER

Switch the receiver on by rotating the Tone and On/Off control in a clockwise direction until it clicks.

Press the appropriate waveband button and turn the Tuning control until the pointer indicates the name or wavelength of the required station.

The wavebands covered are:—

L.W.—1,070 to 1,900 metres (280 to 158 kc/s)

M.W.—187 to 570 metres (1,605 to 525 kc/s)

The receiver contains its own ferrite-rod aerial. This is directional (i.e. it is more effective in some directions than others). It is best therefore, having tuned to a station, to turn the receiver slightly until the reception is loudest and clearest. The best position will vary according to the station received.

The Volume and Tone controls should be adjusted as desired.

## TRANSISTORS

Transistors may be expected, under normal operating conditions, to have a much longer life than valves. If, however, a transistor should need to be replaced, this must be done by your dealer. Transistors cannot be plugged in like valves and for the purposes of servicing they must be treated in the same way as other components.

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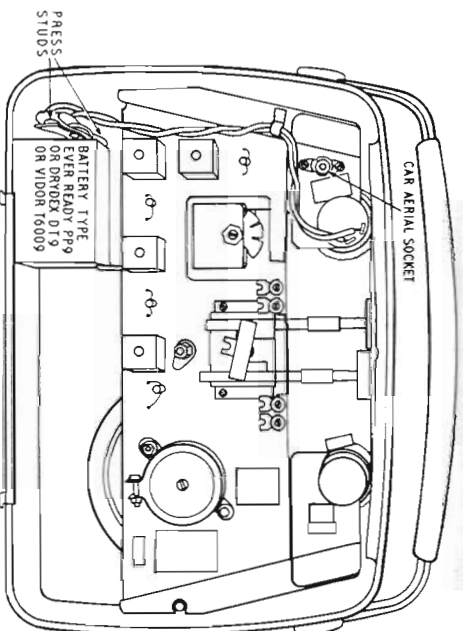


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## BATTERIES

The receiver operates on a 9-volt battery.

Suitable types are:—

Ever Ready type No. PP9  
Vidor " " T6009  
Drydex " " DT9

The current consumption is about 20–30 mA with normal listening.

The output circuit has been designed for battery economy and the full current is used only when the Volume is greatest. Thus, if the volume is kept at a moderate level the battery will last longer.

To replace the battery **first make sure the receiver is switched off**, then take the back of the receiver off. The back is held on by one large screw in the centre. Unscrew this (it may easily be turned with a coin) and remove the back. Take out the battery (at the bottom of the cabinet—see Fig. 1) and undo the press stud connections.

When connecting the new battery notice that the connections will only fit one way round. **Do not switch on the receiver again** until the connecting studs have been correctly pressed home and the battery replaced as shown in Fig. 1.

## CAR AERIAL

The receiver has its own internal aerial for normal use. But if you wish to use it in a car it may be better to use the car aerial and a socket has been provided for this purpose at the back of the set in the top left corner (see Fig. 1). A suitable type of co-axial plug should be used for the connection.

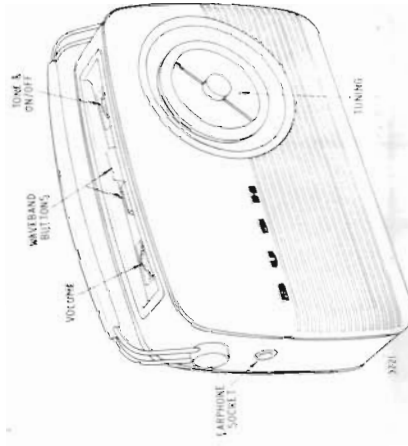


Fig. 2. General view of receiver showing controls.

## EARPHONE SOCKET

### Miniature Earpiece

The socket at the left of the receiver (see Fig. 2) permits the use of a low-impedance earpiece. Your Bush dealer can supply a suitable one but almost any miniature earpiece will be satisfactory, preferably with an impedance of not more than 300 ohms. When the earpiece is plugged in, the internal speaker is switched out. Remember to switch the receiver off after listening with the earpiece.

### External Loudspeaker

An external loudspeaker (e.g. your car radio loudspeaker) can be connected to this socket. The lead must be fitted with a suitable plug and the speaker should be of about 3 ohms impedance. Never connect more than one external loudspeaker or one of other than the recommended impedance.

### Tape Recorder

This socket will also provide a low-impedance output source for connecting to a tape recorder. Two methods of connection may be used, viz.

- (a) tape recorder connected across an external loudspeaker being used as above.
- (b) tape recorder connected across lead from earpiece socket terminated with a resistor of between 3 and 10 ohms.

Set the volume control to normal listening level.

Only method (a) will allow you to monitor the recording as the internal speaker is automatically cut out.

# GUARANTEE

## IMPORTANT NOTES ABOUT THE GUARANTEE

1. The conditions of the Guarantee are quoted in the following pages.
2. The Guarantee is automatically effective from the time you buy the instrument. **You do not have to return the form.**
3. Make sure the dealer has completed the section marked "DEALER PLEASE COMPLETE THIS SECTION" when the instrument is purchased.
4. Keep the Guarantee form in a safe place. If you need service under the Guarantee you may be asked to return the form to us.

# GUARANTEE

The instrument, serial number as shown on page 7 is hereby guaranteed by the manufacturer Rank-Bush Murphy Limited, hereinafter called the Company for a period of 12 calendar months from the date of purchase or hire, subject to the following conditions and exceptions:—

1. That during the currency of this Guarantee any components of the instrument (except batteries), which have in the Company's judgment proved to be faulty or defective in manufacture, will be exchanged free of charge, see Clause 3.
2. That the servicing of the instrument will be carried out at the place most suitable and convenient to the Company.
3. That all labour involved in servicing, packing, etc., and all carriage costs will be chargeable to the purchaser or hirer.
4. That the Company will not accept responsibility for damage caused by:—
  - (a) Misuse, wilful or accidental damage.
  - (b) The non-observance of the instructions and information contained in the operating instructions booklet.
5. That the instrument s purchased or hired new, and at the Company's full published retail selling or Hire Purchase price, from or through an appointed dealer of the Company. In the case of an instrument on Hire Purchase, this Guarantee will not operate unless all instalments are paid up to date.
6. That the Company reserve the right to change, at their discretion, any instrument or part of an instrument sent for service for a like article of approximately the same date of manufacture. This Guarantee shall not be affected thereby.
7. That this Guarantee shall become invalid in the event of any unauthorised alteration being made to the instrument for which it is issued, or if any non-standard parts be substituted.
8. That any instrument or component part returned to the Company under the terms of this Guarantee shall be sent carriage paid.
9. That this Guarantee applies only to instruments purchased and used in Great Britain and Northern Ireland.
10. That the following instructions as to procedure are complied with.

## PROCEDURE

In the event of any query, technical or otherwise, apply to the Company's dealer from or through whom you bought or hired the instrument.

If unable to effect such repair as may be necessary, he will arrange for the transfer of the instrument to the Company's Service Department.

Should you be unable for any reason to communicate with your dealer, please notify the Company direct, giving the type of instrument, serial number, date of transaction and full details of your complaint, but do not despatch the instrument until advised by the Company.



The Guarantee above covers certain material and workmanship only, and your dealer, while having no authority to vary the terms as set out above, is entitled to charge for the time taken in effecting any necessary replacements and repairs, all carriage and packing costs being chargeable to you.

In cases where instruments are returned to the Company unnecessarily for causes for which they are not directly responsible, or where the conditions of the Guarantee have not been complied with, all costs involved will be charged to the sender.

The service under this Guarantee applies only to an instrument having a definite manufacturing defect.

Type **TR82**

Serial No. **528/15615**

DEALER PLEASE COMPLETE THIS SECTION BY RUBBER STAMP OR IN INK

We hereby certify that the above instrument has been purchased from  
\*H.P.  
or hired through us at full ~~price~~  
\*List

Date of Sale

13-9-63

Name of Firm

J. G. BOND LTD.

Address

RADIO AND TELEVISION DEPT.  
MOULSHAM ST., CHELMSFORD

Dealer's Signature

\* Strike out which does not apply.

CUSTOMER PLEASE COMPLETE THIS SECTION AT TIME OF PURCHASE

Name

Address

I have read and accept the terms of this guarantee, and the instrument is to my satisfaction.

Usual Signature

Date

THE GUARANTEE IS VALID FROM THE DATE OF PURCHASE. KEEP THIS FORM IN A SAFE PLACE— IF YOU NEED TO MAKE A CLAIM UNDER THE GUARANTEE YOU MAY BE ASKED TO RETURN IT TO THE COMPANY AS PROOF OF PURCHASE