

GENERAL INFORMATION

SCA.F LAMPS

There are two, each of 3.5 volt, 0.15 ampere rating. The lamp-holder brackets are removable to facilitate replacement of lamps.

POWER CONSUMPTION

45 watts.

IMPORTANT

DO NOT connect an earth wire to any part of the receiver.
DO NOT handle the chassis and never use the receiver with the back off.

As is normal in a.c./d.c. receivers one side of the chassis is connected directly to the mains and can therefore be live.



Issued by the Technical Publications Department of
BUSH RADIO LIMITED

All enquiries should be made to the SERVICE DEPARTMENT
BUSH RADIO LIMITED
KEW WORKS, MORTLAKE ROAD, KEW, RICHMOND, SURREY
Telephone: PROspect 8271/4

AP616712/10/58/5

E.W.P. LTD.

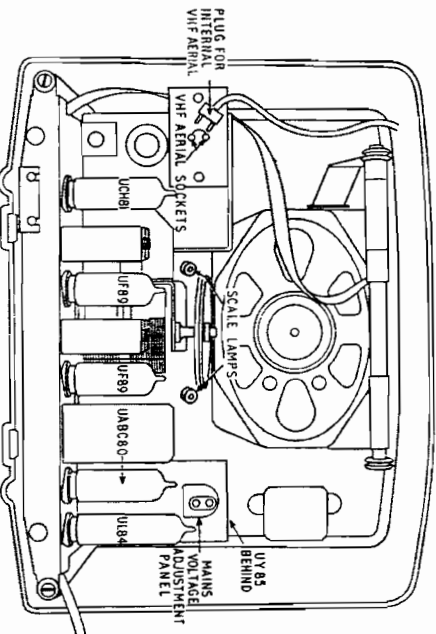
Printed in England

BUSH RADIO

VHF. 70



OPERATING INSTRUCTIONS



Rear view, with back removed

INTERNAL VHF AERIAL

The receiver is designed to operate on a.c. (40-100 cycles a second) or d.c. supplies at 200-250 volts. When dispatched from the factory it is adjusted for the highest voltage (i.e. 240-250 volts). If your voltage supply is different from this, disconnect the instrument from the mains, remove the cabinet back and place the voltage-adjustment plug in the appropriate position in accordance with the following table:—

for voltages 200-220,	place the plug in the 210-volt socket.
" " 220-240,	" " " 230-volt "
" " 240-250,	" " " 250-volt "

INTERNAL AERIAL

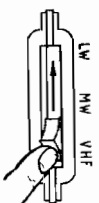
An internal ferrite-rod aerial is fitted, for use on long and medium wavebands. For VHF an internal loaded dipole is fitted. Both types of aerial are directional and it may be necessary to turn the receiver slightly to obtain maximum volume.

In areas where VHF signal strength is low the internal aerial may be inadequate and an indoor or outdoor aerial may be necessary. A simple dipole will usually suffice. The dealer who installs the set will advise the customer as to the best aerial for the district.

NOTE: The condition of the aerial leads should be checked periodically to ensure consistently good reception.

Volume and Tuning Controls

The Volume, On/Off and Tuning controls are conventional. The waveband selector is a three-position switch as shown in the diagram.



On/Off Control

The set is switched on by turning the On/Off control clockwise. When it is switched on there will be a delay before the dial lamp comes on and the valves warm up.

ON D.C. MAINS, if, after about a minute the set does not work, switch off, reverse the mains plug in its socket and switch the receiver on again.

WAVEBANDS

Long waveband	1,050-1,935 metres (285-155 Kc/s)
Medium waveband	187-560 metres (1,605-535 Kc/s)
VHF band	87.5-100 Mc/s.

The long and medium wavebands are calibrated in metres and station names. The VHF band is calibrated in megacycles a second with the Home, Light and Third station blocks marked.

To obtain the full quality of the VHF transmissions it is important to tune the receiver very carefully. It will be found that each station appears to be spread over a small part of the scale, either side of which reception is harsh and distorted. It is important to tune to the middle of this "spread" where the station is loudest and clearest so that the programme is received without distortion.

The volume control will be set according to individual taste.

MULLARD TYPE

V1 UCC85	r.f. amplifier and frequency changer for VHF
V2 UCH81	frequency changer for AM and i.f. amplifier for VHF
V3 UFB9	i.f. amplifier
V4 UFB9	i.f. amplifier
V5 UABC80	detector, a.v.c. diode and audio amplifier
V6 UL84	output
V7 UY85	power rectifier

For the best results only Mullard valves should be used for replacement.