

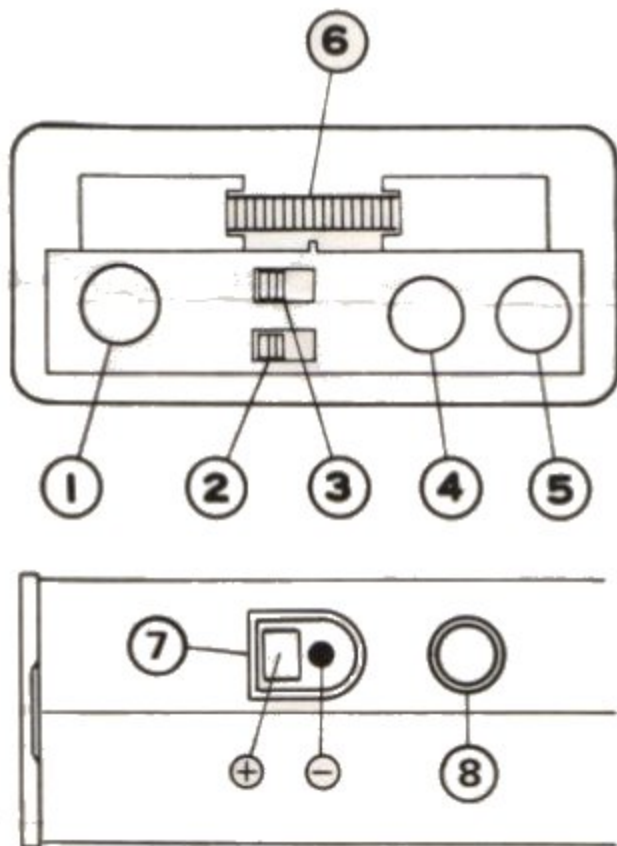
SIGNAL

R-537S

OPERATING MANUAL



R-537S OPERATION MANUAL



CONTROLS AND OPERATIONS

1. VOL, POWER ON-OFF

Volume control and power on-off switch.

2. VFO/FIX Switch

Set the switch to "VFO" position when you wish to receive the signal by manually turning (6) tuning dial.

Set the switch to "FIX" position when you wish to receive the signal by optional quartz crystal on fixed frequency.

3. CHANNEL Selector switch (for fixed channel)

Set the VFO/FIX switch (2) to "FIX" position, then select the channel selector switch to your desired fix frequency A or B, and then turn the dial (6) to receiving frequency or maximum sensitivity position (in this case (6) tuning dial works as pre-selector.).

4. SQL (Squelch control)

Blanks out unwanted noise when no signals are present. Turn fully counterclockwise then slowly clockwise until the receiver noise disappears. Any signal to be received must now be slightly stronger than the average received noise.

Further clockwise rotation will increase the threshold level which a signal must overcome in order to be heard.

Only strong signals will be heard at a maximum clockwise setting.

5 . ANT (Antenna jack)

Connect the supplied telescopic antenna to this jack.

Connect the optional external antenna to this jack when the field strength is weak.

*Please ask you dealer for suitable external antenna.

6 . TUNING DIAL (Pre-selector)

Select the (2) switch to "VFO" position for manual tuning.

Turn (1) knob clockwise until you can hear noise and then tune the dial slowly and select to desired stations. Tune the dial to your desired frequency, if you know the actual frequency of the station, accuracy of the dial frequency is about $\pm 1.5\%$, so please tune the very slowly.

7. EXTERNAL POWER JACK

You will be able to use the unit by external power source thru this jack which automatically changes the power source from internal battery to external power source when you plug-in.

The external power source should be DC 9V with negative supply to the centre of the power jack.

8. EAR

This is a connection jack for earphone or external speaker which automatically cuts off the internal speaker when you plug-in to this jack.

Please use only 3.5mmø miniature plug in this jack.

BATTERY INSTALLATION

Take off the bottom battery cover and fit a 9V battery of the correct type. (006P or PP3)

When the battery is almost exhausted, the sound output of the set will be much reduced and the sensitivity will also deteriorate. Be sure to replace the battery at this time or damage may be caused by chemical leakage.

If you do not intend to use the set for some time, it is essential to remove the battery.

CRYSTAL INSTALLATION

Take off the crystal cover on the side of the receiver and install crystals of the correct frequency in the channel of your choice. The position of the crystal socket corresponds to the channel indicator on the front panel of the set.

Optional crystals should be available from your dealer.

GENERAL SPECIFICATIONS

Semiconductors: 1 IC, 11 transistors, 7 diodes.

Power source: 9V by 006P or PP3 battery,
EXT. power jack (negative centre)

Crystals: HC-25/U,
$$\frac{\text{desired freq.} + 10.7\text{MHz}}{3}$$

Dimensions: 62 (W) × 115 (H) × 28 (D).mm

Weight: 300 grams, with aerial and battery.

ELECTRICAL SPECIFICATIONS

Frequency range: 118 to 136MHz, aircraft communication band.

Sensitivity: Better than 1.4 μ V. for 10dB S+N/N.

Selectivity: 6dB band 180KHz, and 40dB band 390KHz.

AGC range: Output will not vary more than 10dB with inputs of from 2 μ V to 10,000 μ V.

Battery consumption: 15mA, typical at 9V DC.

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