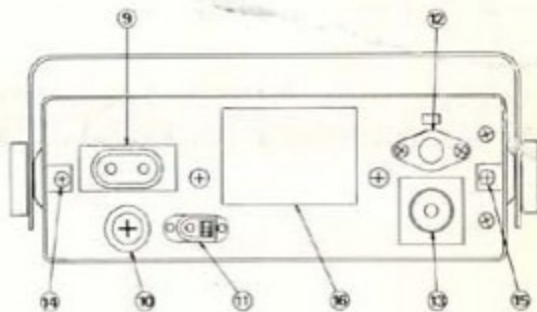
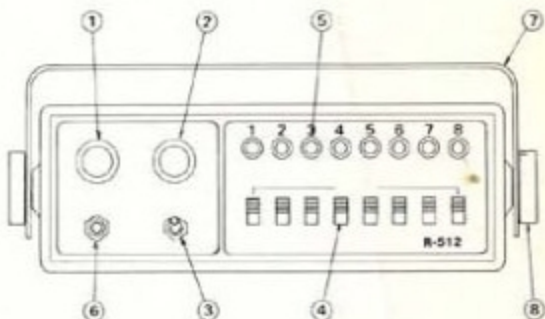


8-Channel VHF Aircraft Band
AM Automatic / Manual
Scanning Receiver
Model R-512

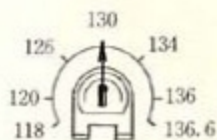
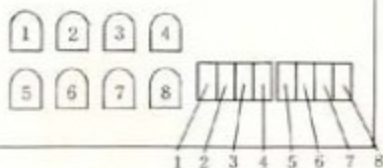
INSTRUCTION MANUAL





SST Trimmer and Crystal Socket Locations

Trimmer Position VS. Freq.



Frequency in MHz.

ACCESSORIES

Indoor Antenna.....	1	Fuse for DC	1
Bracket	1	Fuse for AC	1
DC Cord	1	Earphone.....	1
AC Cord	1	Securing Screw	2
Station Indicator	3	Mounting Screw	4

① Disconnect antenna & power supply, open the cover by releasing screws (14 & 15).

② Install crystals in the sockets of desired channels.

③ Apply power to R-512. Rotate Volume Control Knob(1) to full clockwise. Set Squelch(2) at OFF position and Program Switch(4) at upper On position.

④ Set Mode Switch(3) at the lowest position-MANUAL-, and continue to scan until LED Channel Display lights of which the crystal just being installed.

⑤ Adjust SST Trimmer of the same channel number until the noise from speaker reaches the highest level, using a small screw driver.

⑥ Use room antenna when R-512 is being used in the strong radio field. In the weaker area, use outdoor antenna of the specified frequencies. 144 mhz antennas are not sufficient in their length, and antenna-gain will not be satisfactory accordingly.

3.

Please note that the frequencies which are constantly being transmitted all the time like ATIS. In this case, automatic scanning will be fixed on the channel. To skip such channels, set Program Switch (4) at lower OFF position.

(3)

All R-512 are being manufactured under severe quality control, however, if any defect is found, please return it to the shop where you purchased as it is, with slip stating the condition R-512, failure, defect, trouble, etc in details.

Model R-512 Scanning Receiver is designed to receive aircraft band between 118 mhz and 136 mhz offering fully crystal controlled operation on 8 channels of any desired frequencies with the circuit of extra high sensitivity.

CONTROLS & FEATURES

(1) Volume/ON-OFF:

Varies the sound output from the speaker. Also incorporates an "on-off" power switch at the extreme counter-clockwise position.

(2) Squelch:

This control is used to "quiet" the R-512 during no-signal condition. Turn this knob clockwise gradually until the noise fade away, and at the same time, automatic scanning starts. Scanning will stop on the channel which signal is being received and sound be heard from the speaker.

(3) Mode Switch:

Auto position.....Automatic scanning.

NeutralStop scanning.

ManualTo select the desired channel manually.

(4) Program switch:

Upper position of the switch makes the respective channel ON, lower position makes its channel skip over. Signal shall not be received at the channel if any crystal is not being installed, even it's at ON position.

(5) LED Channel Display:

LED lights one by one automatically when searches a signal, and hold to scan when the signal is being caught.

(6) Earphone/EXT SP Jack:

Allows use of earphone for private use, or 8-ohm external speaker. Insertion of plug automatically silences internal speaker.

(7) Mounting Bracket:

For mobile installation, avoid heat from vehicle.

(8) Securing Screws:

To fix R-512 on bracket at any desired angle.

(9) AC Jack:

For stationary use, employ AC cord, which is being supplied as accessory, for 220/240 volts AC.

(10) Fuse Holder(for AC use):

5.1mm ϕ ×20 mm, and 0.35Amp. fuse to be installed.

(11) DC Jack:

For mobile use, employ DC cord which is being supplied as accessory. Connect Red lead to positive 12 volts DC. Black to chassis of the vehicle as grounding. Negative Ground only.

(12) Antenna Socket:

Room antenna of accessory to be plugged in.

(13) Connector for Outdoor Antenna(SO-239):

UHF (M) type plug can be employed.

(14) & (15):

To open the cover of R-512, remove these screws.

OPERATIONS

(1) 1.

Following one crystal for receiving is already being installed at our Factory: CH-1 118.1mhz.

2. Squelch

Squelch will be OFF at the extreme counter-clockwise and noise will be heard from speaker. Then the knob (2) clockwise gradually until the noise fade away which is called "Squelch is ON". At this time, if Mode Switch (3) is being set at AUTO position, LED Channel Displays (5) will light one by one and automatic scanning starts. If any signal is being caught, scanning will stop at that channel position and sound can be heard from speaker. When radio is ceased, scanning starts again.

3. Skipping

To skip channels, push Program Switch (4) to lower position.

(2) 1.

In case you need other frequency crystal, ask the shop where you purchased the receiver unit.

2. SST System

Aforementioned receiver crystals between 118mhz and 136mhz can easily be installed by this system simply using a screw driver without any measuring instrument, according to the undermentioned procedures.

SWINBURNE AVIATION,
AIR-BAND RADIO SPECIALISTS,
HANGAR RD., BIRMINGHAM AIRPORT,
Tel: 021-742 8704