

SPECIFICATIONS

Frequency range:

HF
VHF-low
VHF-high A (Air band)
VHF-high B
UHF
26 - 30 MHz
68 - 88 MHz
110 - 138 MHz
138 - 176 MHz
380 - 512 MHz

Mode:

All AM/FM (Narrow FM)

Receiver sensitivity:

HF, VHF low and high
Air band, UHF
 $0.5\mu\text{V}$ (10dB S/N)
 $1\mu\text{V}$ (10dB S/N)

Memory channel:

50 channels

Channel step:

5 KHz

12.5 KHz

25 KHz

Scan speed:

Automatic scan speed

Display:

Liquid crystal with light

Audio output:

1.5 watt at less than 10% distortion

Power source:

DC 13.8 V

Rear feature:

DC jack (AC adapter jack)

50 ohm antenna socket

External speaker jack

Dimensions:

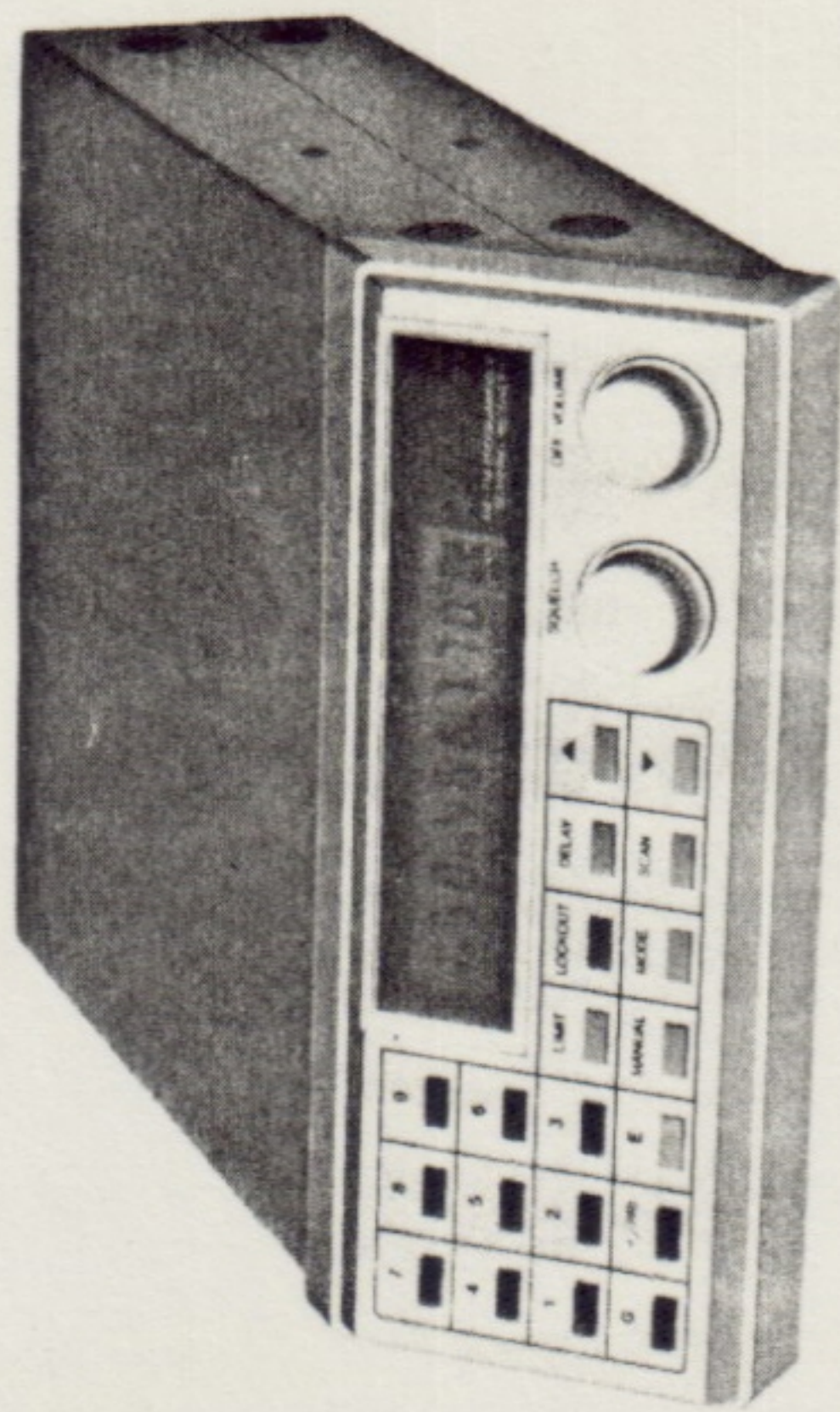
152 mm W x 58 mm H x 220 mm D

Weight:

1.05Kgs

HF/VHF low/AIR/VHF high/UHF

dll AM/FM programmable automatic
SCANNING RECEIVER



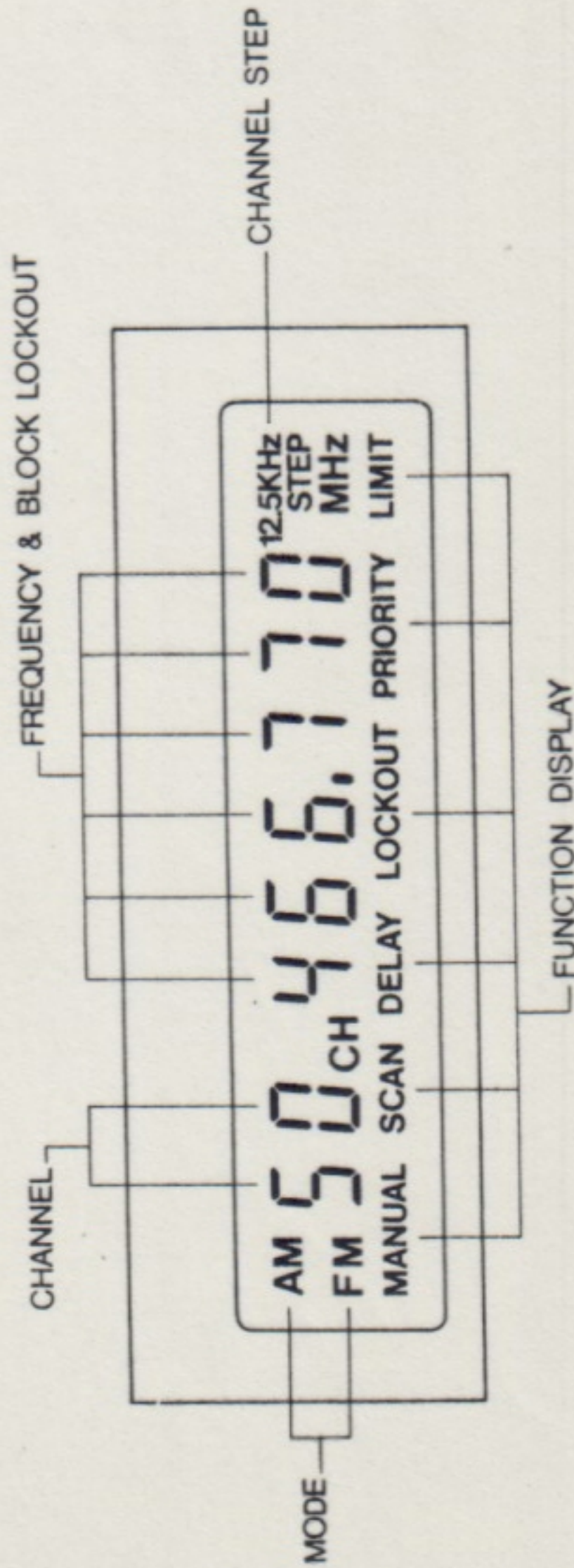
SAIKO SC 8000

OWNER'S MANUAL

FREQUENCY RANGE

HF	:	26.0	—	30.0	MHZ
VHF LOW	:	68.0	—	88.0	MHZ
AIR	:	118.0	—	138.0	MHZ
VHF HIGH	:	138.0	—	178.0	MHZ
UHF	:	380.0	—	512.0	MHZ

INDICATION: LCD (LIQUID CRYSTAL DISPLAY)



* It indicates the Block locked-out group by pressing key switches.

SCANNING FUNCTION CAN BE CONTROLLED WITH MICRO-COMPUTER

- * According to programs, this scanner checks memorized channels in order and shows you signals entered.
- * This scanner can be scanned from 1ch to 50ch in case of closing squelch. When scanning stops to catch signals, a signal received can be heard from speaker.
- * Without signals, scanning removes from present channels to another.
- * By Delay function, it can be delayed about 2 seconds for scanning start.
- * By channel lockout and block lockout, it can be skipped over to other channels.
- * Priority always checks the channel 1 and will permit you to hear channel 1 any time it is active, regardless of any other signals being received at this time.

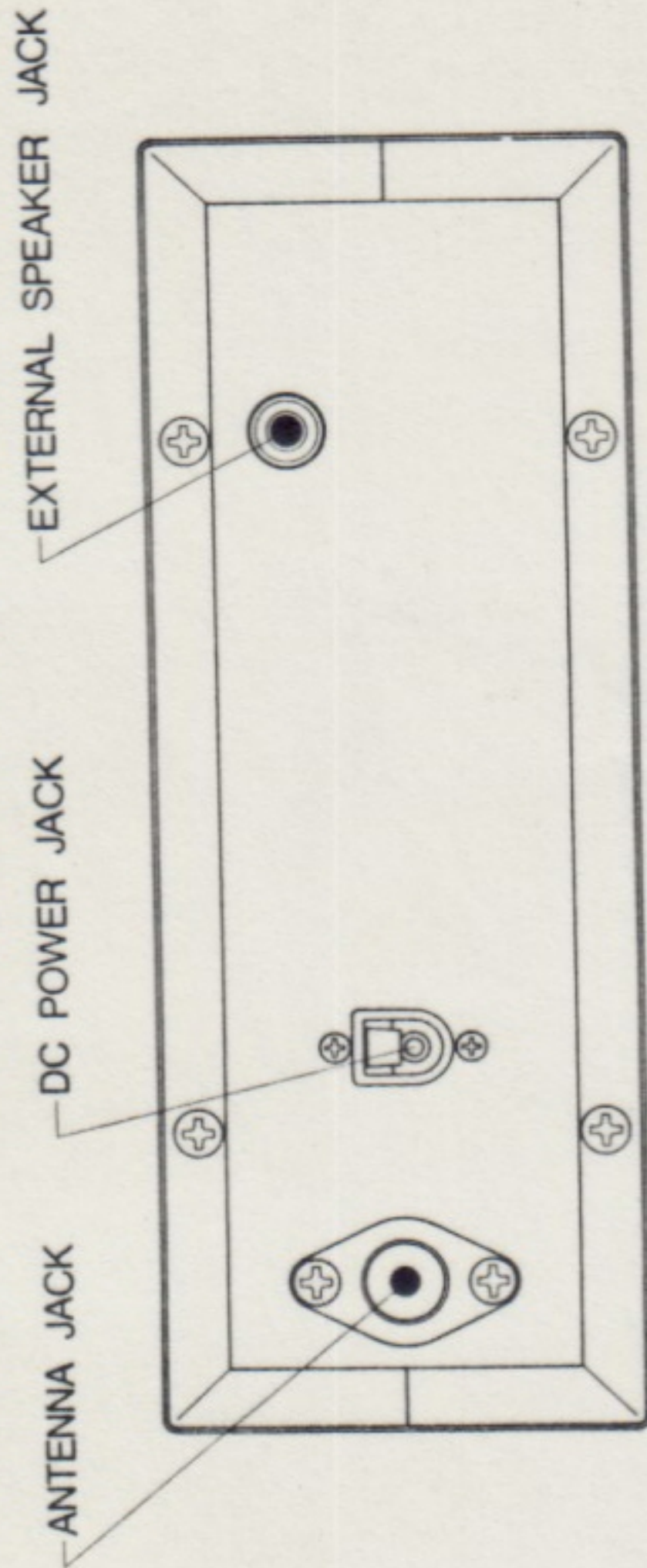
SEARCH FUNCTION CAN CHECK ANY SIGNALS WITHIN BANDS

When you designate upper and lower limit of the desired frequency on 5KHz or 12.5KHz or 25KHz, it checks with designated step and receives signal.

REAR PANEL FUNCTIONS

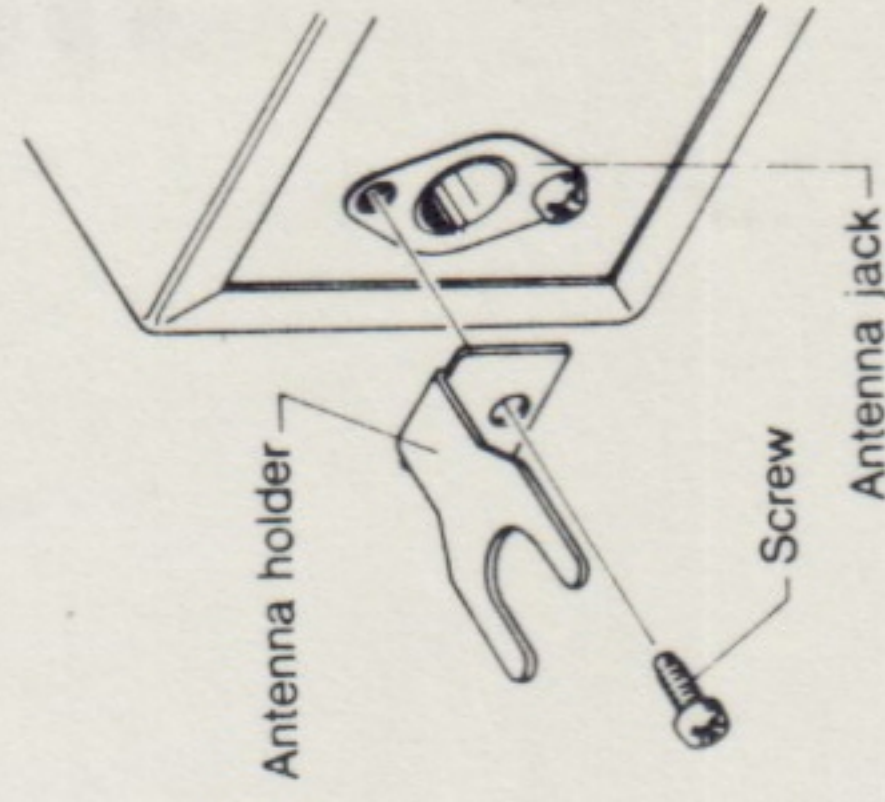
- ANTENNA JACK** : Connect the supplied rod antenna to the antenna jack.
- DC POWER JACK** : Connect the DC power plug into the DC power jack. Power cord is color coded as Black (—) and Red (+).

EXT. SPEAKER JACK: The speaker jack is for use with an 8 ohm external speaker.

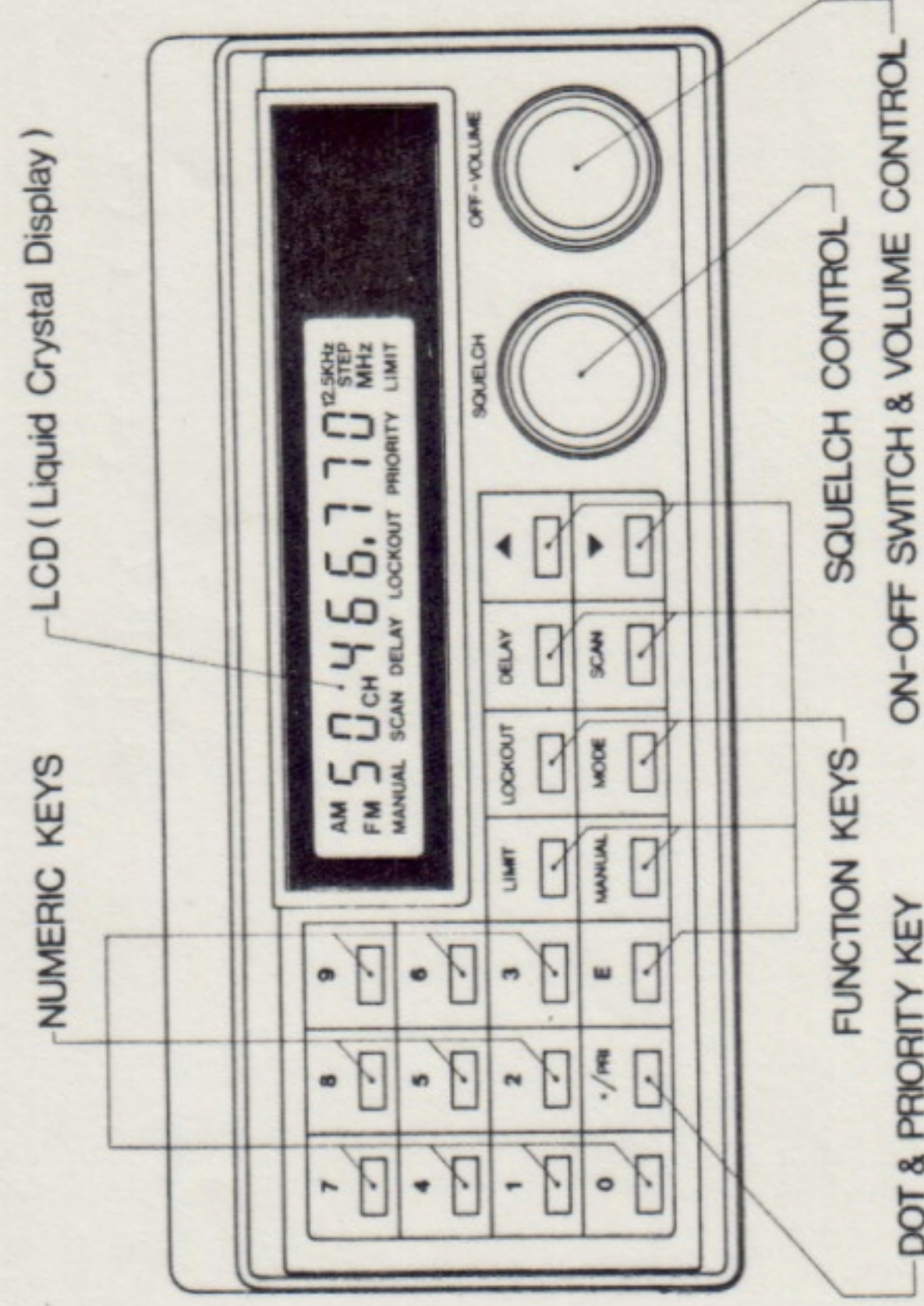


ANTENNA HOLDER:

The antenna holder locks the antenna, put on rear panel above an antenna jack. Remove the upper screw, which is fastened on antenna jack and match the hole of antenna supporter with the hole where the screw was removed.



FRONT PANEL CONTROL



This scanner is prepared 10 pcs Numeric Keys and 10pcs Function Keys. **NUMERIC KEYS 0 - 9:** Have to be used for Frequency, Channel, Channel step on search, and Block lockout together with Function keys.

(DOT)/PRI(PRIORITY): As DOT key, in sequence any Numeric Keys, used to indicate Dot of decimal point meaning to be under MHz. In another case, used as PRIORITY, press this key at first, then "PRIORITY" displayed at lower of right side on LCD. While scanning, this function checks the memorized frequency in channel 1 every 2 seconds.

FUNCTION KEYS: They have to be used with Numeric keys for above Function and change or cancellation.

MANUAL: Used to enter designated Frequency into Channel for memory and re-call memorized Frequency (Channel).

Also used to return from Scan mode or Search mode to Manual mode.

In case of Manual mode, indicates "MANUAL" at lower of left side on LCD.

DELAY: Used to Delay start scanning above 2 seconds to next channel. It is useful function for Amateur Radio communication.

EXAMPLE: To program Delay on a Channel 2.
[2], [MANUAL], [DELAY] (Indicates "DELAY" on LCD)

▲(UP), ▼(DOWN): When it is on Manual mode, used to channel upward or downward. When it is on Search mode, by pressing [^], or [v] starts search from lower or upper frequency to upper or lower frequency within search limit frequencies.

Used to designate upper and lower Limit Frequency of Search.

EXAMPLE: 145.000 [LIMIT] (Indicates 51ch 145.000MHz on LCD. Moreover, "LIMIT" is displayed in flash at lower of right side on LCD.)

Then, 150.000 [LIMIT] (Indicates 51ch 150.000MHz and "LIMIT" on LCD.)

And then, by pressing key [^] or [v], starts search within 145.00-150.000MHz.

Search channel step indicates as 25KHz or 12.5KHz etc at upper of right side on LCD.

E (ENTER): Used to Enter designated frequency into channel for memory.

EXAMPLE: [6], [MANUAL], 80.200, [E]
(on channel 6, memorized 80.200MHz)

SCAN: Used to function the scan.

LOCKOUT: Used to skip over the memorized channels or a block lockout. (10 channels = 1 bank) Indicates "LOCKOUT" on LCD.

EXAMPLE: [4], [MANUAL], [LOCKOUT]
This channel 4 cannot be scanned by lockout, by pressing [LOCKOUT] again, it is cancelled.

EXAMPLE: [2], [LOCKOUT]
About 2 seconds, indicates 2 "XLXXX".
From 11-20 ch are "LOCKOUT".
Push [2], [LOCKOUT] again, about 2 seconds indicates "XoXXX", 11-20 ch are cancelled.

About this function, explain later on.

* By [1], [LOCKOUT], from 1-10 ch are locked-out. But without Delay, press [2], [MANUAL], [LOCKOUT] only channel 2 is cancelled from lockout. It means, channel lockout takes priority than block lockout.

* Block lockout can be locked or cancelled for 1-10 ch, 11-20 ch, 21-30 ch, 31-40 ch, 41-50 ch. Cannot be used for 6-15 ch, 24-33 ch etc ...

MODE : Used to select Mode, AM or FM and see it in display.

SQUELCH CONTROL: Used to eliminate annoying background noise when no signals is received. It means, "SQUELCH OPEN".
Turn the Squelch control to clockwise to disappear background noise. It means, "SQUELCH CLOSE".

ON-OFF SWITCH AND VOLUME CONTROL: It is used to power on-off and volume control. Turn the volume control to clockwise to power switch on, then adjust the volume to comfortable level. (SQUELCH CONTROL has to be OPENED.)

KEY LOCK SWITCH: When you set the lock switch to "LOCK", all keys are locked. Means even if you or somebody put hand to keys, they don't work while key lock is being set to lock.

HOW TO USE

Connect the provides rod antenna to antenna jack.

You may be need the roof antenna to use in a car or in building or in some weak wave area.

We recommend you to use roof antenna or antenna for communication equipment.

This set can be installed in any vehicle which has 12-volt, negative ground electrical system of 13.8 volt DC.

Connect the DC power plug into the DC power jack. Power cord is color coded as BLACK (-) and RED (+).

Turn the volume control to clockwise to power on, and something are showed on LCD. It can be operated. But in case to use for the first time, nothing are memorized in the micro-computer, so that somethings showed on display are just unexpected frequency or words.

HOW TO PROGRAM

You have to program correctly shown as below:

EXAMPLE: To memorize 144.100MHz in channel 1

[1], [MANUAL], [1], [4], [4], [/PRI],
[1], [0], [0], [E]

At this time, you can see the Mode (AM or FM) not desired on display, press [MODE] key. Furthermore, if "LOCKOUT" indicator is shown on display, press the [LOCKOUT] key, then it is disappeared.

Now you are ready to enter your desired frequency to channel 2 and up to 50. Then, again if "LOCKOUT" or "DELAY" indicator are showed on display, you just press the or key as mentioned above.

HOW TO MAKE BLOCK LOCKOUT AND CANCELLATION

This scanner has 5 blocks (5 banks) as follows;

1-10 ch, 11-20 ch, 21-30 ch, 31-40 ch, and 41-50 ch.

In case, press , , indicates which blocks are locked or unlocked. If indicator showed "LoLoL", "L" at left side means 1-10 ch locked, next "o" means 11-20 ch unlocked, next "L" at right side means 21-30 ch locked, next "o" means 31-40 ch unlocked and last "L" means 41-50 ch locked. "L" means LOCKED

"o" means UNLOCKED

So, if "LLLLL" are indicated, 1-50 ch are block locked-out, "oooo" means all unlocked.

* NOTES: As mentioned before, lockout for each channel takes Priority than block lockout, so even if indicator showed "oooo", it may some channels are locked-out when you made lockout on certain channels.

When you press , , and if indicator shows "LLLo" on display, this means 1-20 ch are block locked-out.

Then when you want to cancel block lockout from 1-20 ch.

Press , Indicator shows "oLooo"

Press , Indicator shows "oooo"

And then when you want block lockout only for 31-40 ch.

Press , Indicator shows "oooLo"

Then want block lockout for 41-50 ch

Press , Indicator shows "oooLL"

Then cancel of 31-40 ch

Press , Indicator shows "ooooL"

PRIORITY ON AND CANCELLATION

Press key, "PRIORITY" appears on Display, and checks the memorized frequency in channel 1 every 2 seconds. Again press , cancelled priority and disappeared from Display.

SEARCH

Choose lower and upper limit of frequency in the same band.

EXAMPLE: To search from 144.000 MHz-146.000 MHz at the 25 KHz step.

Press , , , , ,
,

(LCD Indicates 51ch 144.000 MHz xxx step "LIMIT")

Then, press , , , , ,
,

(LCD indicates 51 ch 146.000 MHz xxx step "LIMIT")

Then, press , , or , into starts search at 25 KHz step. When coming signals in any frequencies, it stops to receive; then press or key, it starts searching again.

In case to press key, it starts searching from lower to upper frequency.

EXAMPLE: 146.000 MHz ... 144.00 MHz ... 144.025 MHz ... 144.050 MHz ... on display.

"ERROR" INDICATION

If you mistake the operation, "ERROR" appears on display and you should do operation correctly to read this instruction manual again.

HOLD MEMORY FUNCTION (BACK-UP)

This scanner has "HOLD (BACK-UP) MEMORY FUNCTION", so even power switched off, it can be memorized for 2 weeks. When you use this scanner, not necessary to memory same frequencies within 2 weeks.

RECEIVER MOUNTING

Before installing the receiver in a car, truck and etc., be sure to choose a location which is convenient to the operating controls and will not interfere with the normal functions of the driver. The receiver may be mounted to the underside of the instrument panel or dashboard of a car, truck and etc., by means of the special brackets which are supplied with the receiver.

Attach the brackets to the underside of the instrument panel using self-threading screws.

Secure the receiver to the brackets by means of the large knurled thumbscrews.

Tilt the receiver to a position which provides the operator with the best view of the front panel, then tighten knurled thumbscrews securely.

