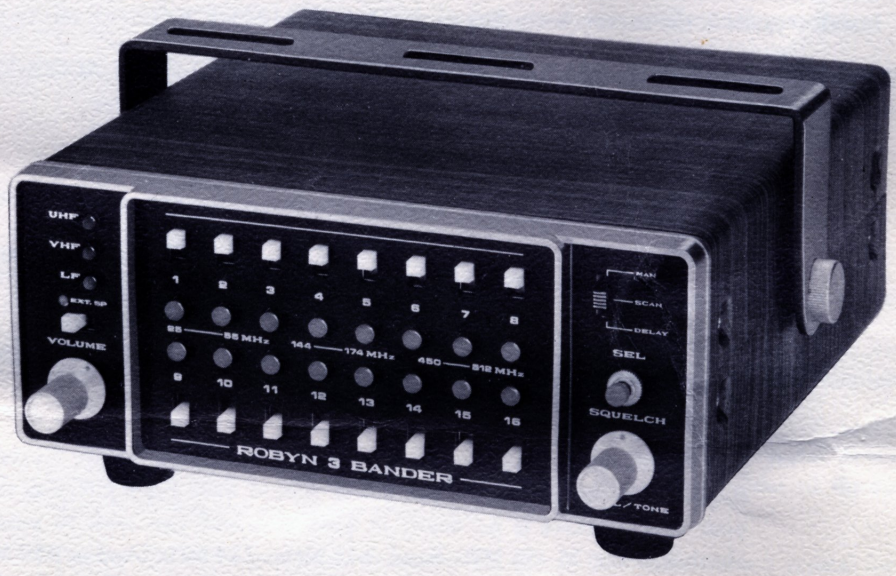
ROBYn 3-BANDER MODEL-3000

INSTRUCTION BOOK
SCANNING MONITOR RECEIVER



GENERAL DESCRIPTION

The Robyn's new FM/3-Band Scanning Monitor Receiver receives sixteen (16) fixed crystal frequencies, in any of 3 bands (450-512 MHz, UHF band; 144-174 MHz, VHF band; and 25-55 MHz, LF band) as you like.
Moreover, at your own choice, you are able to use all 3 bands simultaneously in the range of sixteen (16) frequencies.

1. Robyn's 16 crystal capacity gives various combinations between UHF, VHF, and Low band frequencies.
2. Scanning is performed automatically or manually.
3. The Robyn 3-bander will operate with either 12V DC or 117V AC.
4. Our built-in swivel antenna will allow you to position your antenna in any direction for best results. A 32 inch and a 10 inch long retractable antenna offer you another feature not found in many other sets. The external antenna jack will allow you to use your standard auto antenna while mobile for VHF and Low band. The UHF antenna jack must be used to receive the UHF band. A separate antenna approximately 10" long is needed for mobile.
5. The Robyn 3-bander has its own built-in speaker but if needed, you can install your own external speaker. An external speaker jack is provided at the rear of the set. A switch is provided on the front panel (left side) so that you may select internal or external speaker by simply flipping the switch (Diode Light Indicator).
6. Better tone is accomplished by the pull switch for high/low position located in conjunction with the squelch control.
7. This monitor is designed for negative ground only.

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CRYSTAL INSTALLATION

Suitable crystals must be installed befor operation.
To install crystals:

1. Remove two screws on each side of the bottom cabinet.
2. Install crystals in the sockets according to the channel numbers. Be careful not to bend crystal pins.

IMPORTANT: CRYSTALS HAVE TO BE SELECTED CAREFULLY IN ACCORDANCE WITH THE BASIC RECEIVING FREQUENCY.

LF Band: Crystal frequency = channel frequency + 10.7 MHz

VHF Band: Crystal frequency $= \frac{\text{channel frequency} - 10.7\ \text{MHz}}{3}$

UHF Band: Crystal frequency $= \frac{\text{channel frequency} - 10.7\ \text{MHz}}{9}$

** It is recommended that you have your dealer install or replace crystals. Your Robyn 3-Bander is shipped without crystals. Your dealer should have stock covering the standard frequencies for your area. If there is no dealer in your area and you wish to purchase crystals covering any channel in the 25–55 MHz band, 144 MHz–174 MHz band or 450 MHz–512 MHz band, please write us direct. Your cost will be $5.00 prepaid direct from the factory. Approximately 10 working days delivery.

INSTALLATION

A) Mobile Station: To install the Robyn 3-Bander in your automobile, follow these directions:

1. Select the best place to mount the set.
2. Fix the mounting bracket to the selected point.
3. Hold the set on the bracket while tightening the screw at each end of the bracket.
4. To use the car antenna, insert the Motorola type plug into the External Antenna Jack on the back of the set.
   Note: Make sure to extend the car antenna about 32 inches or more for receiving VHF or LF band. For receiving UHF band, the length of car antenna must be 10 inches.
   See your dealer when you wish to use any other type antenna.
5. Plug in DC cord to the set.
   Connect Red(Plus) cord with Plus(+) Pole of the car battery (12V) and Black (Minus) cord with Minus (–) Pole.
6. Be sure to observe the polarity, otherwise your set may be damaged.
7. Remember: *Negative Ground Only*.

B) Fixed Base station: To use the 3-Bander as a fixed base station, follow the instructions below.

1. Connect the AC power cord to your set first, then plug it into the power outlet.
2. Pull out the built-in swivel antennas to their full length.
3. Set the antenna in the best direction after the trial operation.

The built-in swivel antennas are satisfactory in areas of high signal strength.
When the set is used in areas of low signal strength, use a Ground Plane Antenna or ask your dealer what type of antenna to use.

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OPERATION

A. Preparation

1. Be sure AC or DC cord is properly plugged in.
2. Turn your set on with the volume control.

B. Automatic

1. Set the slide switch (right side on the front panel) to the position "SCAN".
2. Turn the "SQUELCH" control counter clock-wise until scanning stops.
3. Turn VOLUME knob further until you get adequate sound volume.
4. Turn the "SQUELCH" knob clock-wise gradually until the sound fades out and scanning commences. Continuing to turn SQUELCH clock-wise will decrease sensitivity.

C. Manual Scanning

1. Set the Slide Switch on the position of "MAN.".
2. Push "CHAN. SEL" switch for desired channel to monitor. Unit will scan one channel each time button is pushed.

D. Skipping

To skip unnecessary channels, push down any of the sixteen Slide Switches on the front panel which are not desired.

E. Band Indicator

Exclusive front panel band indicator lights permit instant visual identification of which band is being received.

F. Delay Switch

A 1.5 second Delay Switch is mounted on the right side of front panel. It is part of the MAN/SCAN switch. This function will allow you to hear both sides of the conversation when both stations are on the same frequency. (Simplex)

G. Band Selection

(Example): When you wish to receive Ch. #1 in UHF band, insert crystal for UHF into Ch. #1 crystal socket and push the 3-position switch inside the set, which is labeled Ch.#1, to the position marked UHF.
In case you desire monitoring Ch.#2 frequency in VHF band, insert the VHF crystal into the Ch.#2 crystal socket and push the #2 slide switch to VHF.
By doing as above, you can receive 16 frequencies in any combination of the three bands.

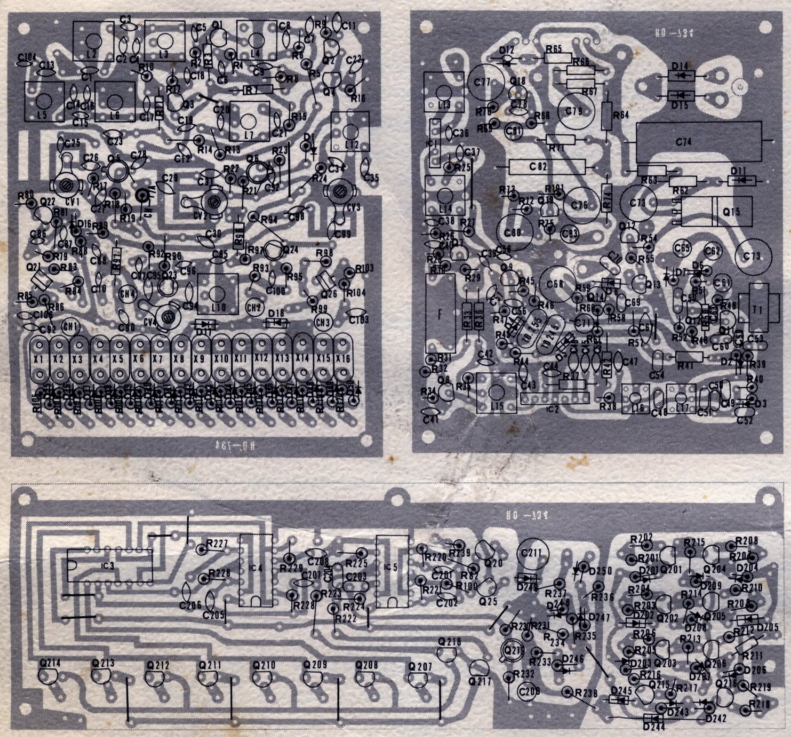
NOTE: Mobile reception of a POLICE frequency by UNAUTHORIZED personnel is ILLEGAL in some areas. It is the responsibility of the person making the installation to be sure that the user of this receiver is authorized or cleared through the local police department. Under no conditions can Robyn International Inc., the manufacturer of this set, be held responsible for its unauthorized installation or use.

SPECIFICATION

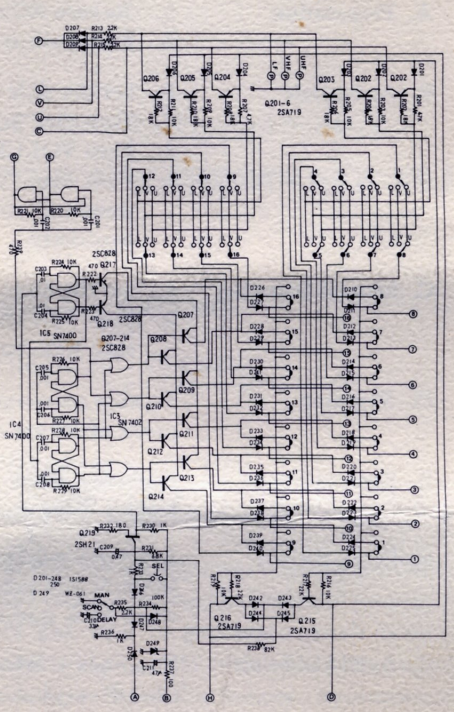
Frequency Range	
Lo VHF	25– 50 MHz
Hi VHF	144–174 MHz
UHF	450–512 MHz
Maximum Usable Channel	
Lo VHF	10 MHz (±5MHz)
Hi VHF	10 MHz (±5MHz)
UHF	10 MHz (±5MHz)
Frequency Separation	25 KHz
Sensitivity	0.5 μV for 20dB N.Q.
Squelch Sensitivity	0.5 μV Minimum
Selectivity	6 dB ± 10 KHz
	50 dB ±20 KHz
Modulation Acceptance	5 KHz
I.F. Frequency	1st 10.7 MHz.
	2nd 455 KHz
Audio Output Power	2.5 Watts
Antennas	50Ω External Antenna
Power Supply	DC 13.5V, AC 117V
Dimension	W 200m. (8") H 95mm (3-3/4")
	D 210mm (8-3/8")
Weight	1.9 Kgs. (4 LBs)
Scan Rate	25 Ch/Sec.
Semiconductors	5 IC, 44 Transistors
	97 Diodes
Power Consumption	DC – 10W max.
	AC – 15W max.

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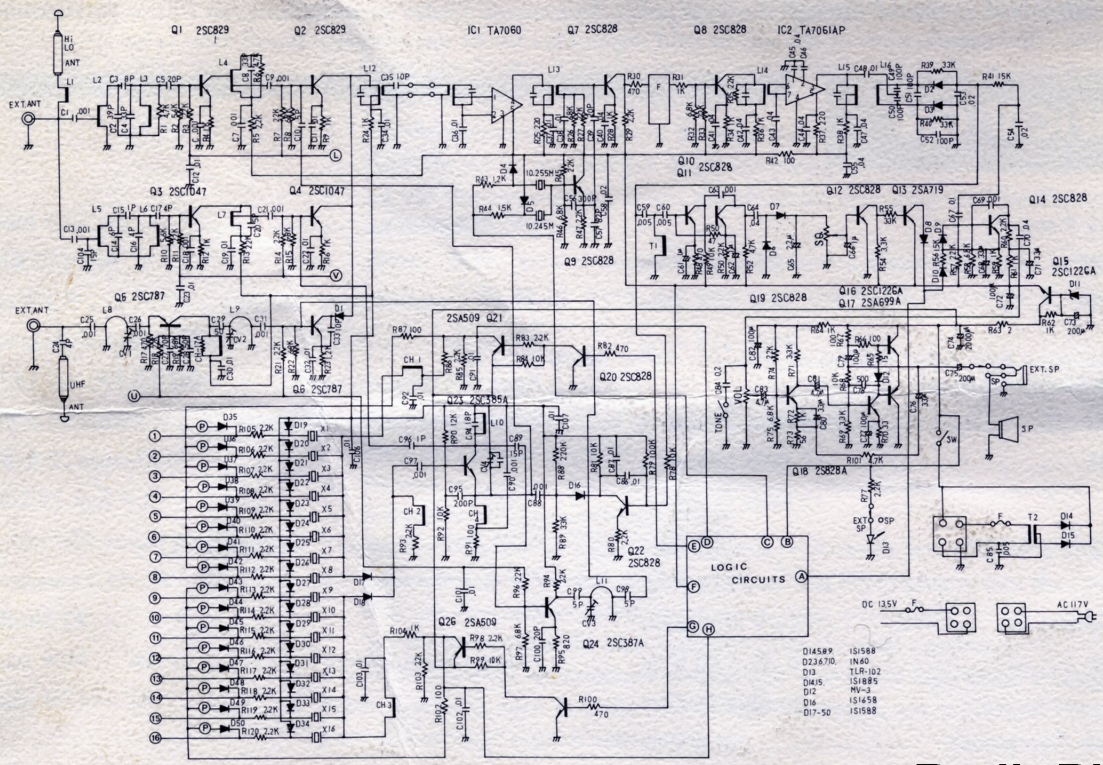
TOP VIEW



SCHEMATIC DIAGRAM (2)



SCHEMATIC DIAGRAM (1)



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