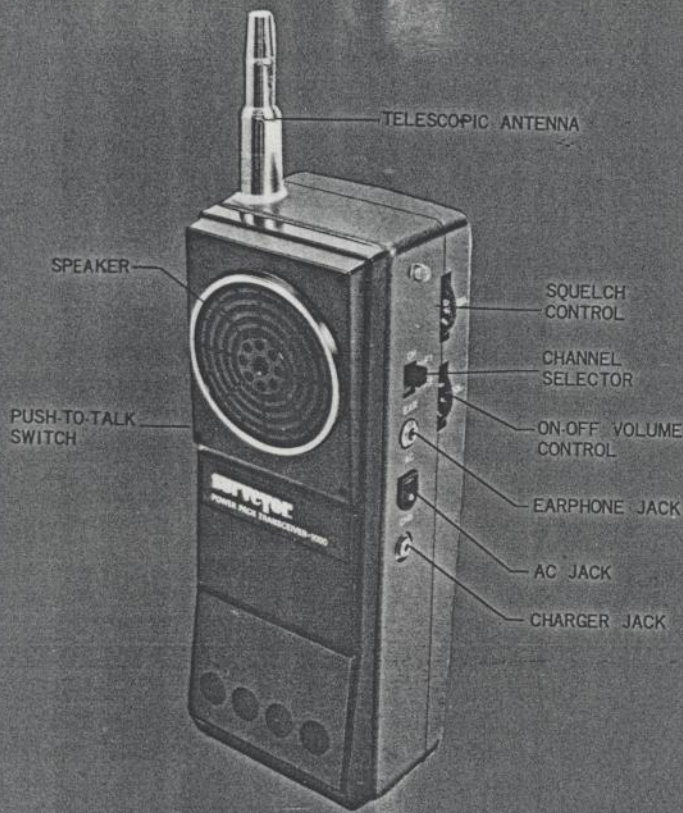


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SURVEYOR™



MODEL-1000
1 WATT 2-CHANNEL TRANSCEIVER

FEDERAL COMMUNICATIONS COMMISSIONS REQUIREMENTS

Your SURVEYOR 1000 is a combination receiver-transmitter designed and built for licensed Class D operation on any of the 23 frequencies designated as citizens band channels by the Federal Communications Commission. You are required to read and understand Part 95 of the F.C.C. rules and regulations prior to operation of this unit. Part 95 regulations are available for \$2.00 from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. You are also required to complete F.C.C. form 505 and submit it to the F.C.C. in order to receive your license to operate this unit. F.C.C. regulations will be violated if you transmit with this unit prior to receipt of your license.

NOTE: The technical information, diagrams, and charts provided in this manual are supplied for the use of a qualified holder of a first or second class radiotelephone license in servicing this transceiver. It is the users responsibility to see that this unit is operating at all times in accordance with the F.C.C. Citizens Radio Service regulations.

If you install or service your own transceiver, do not attempt to make any transmitter tuning adjustment. Transmitter adjustments are prohibited by the F.C.C. unless you hold a first or second class radiotelephone license or are in the presence of a person holding such a license. A Citizens Band or Amateur license is not sufficient.

THIS UNIT HAS BEEN DESIGNED AND MANUFACTURED IN ACCORDANCE WITH VOL. 6, PART 95 OF THE CURRENT F.C.C. RULES AND REGULATIONS AS OF THE DATE OF MANUFACTURE.

HOW TO OPERATE YOUR SURVEYOR 1000 SOLID STATE TRANSCEIVER

1. Open the back cover by loosening a large center screw on the rear cabinet. Insert 8 penlight batteries carefully observing polarities and check to see that batteries are firmly seated on the battery compartment. Close the back cover.
2. Extend the telescopic antenna to its full length.
3. Rotate ON-OFF/VOLUME control upward to turn the power on.
Your transceiver is now ready to operate.
Adjust the volume control to a desired level.
4. This unit has a highly efficient variable squelch control which reduces background and other undesirable noises and keeps interference at the minimum between calls.
It functions only in the receive mode and does not affect the receiver volume when signals are received. To adjust, when no signals are present, rotate the squelch control until the background noise just disappears. Incoming signals will automatically release the squelch. Careful adjustment is necessary as setting too far to the upward will not allow weaker signals to release the squelch.
5. Place the selector switch in the F1 position.

NOTE: This unit has been supplied with a pair of crystals installed for immediate operation on 11 (27.085MHz) channel. When operating on another channel (F2), a pair of required receive and transmit crystals should be inserted into the proper crystal sockets provided on the chassis.

6. Press the "PUSH-TO-TALK" switch when transmitting. Speak clearly in a normal voice, holding the transceiver about 3 inches from your mouth.
7. Release the "PUSH-TO-TALK" switch for receiving. Adjust the volume control for desired volume level.

NOTE: For best transmission and reception, antenna should be held in vertical position.

OPERATION RANGE

The operating range will vary, depending upon terrain, obstacles, climatic conditions. Battery condition also affects range and fresh batteries will provide far better range than weak ones.

EAR (EARPHONE) JACK (3.5 mm)

This allows the use of an earphone, when more private communication is desired or when the unit is used in a noisy area.

AC JACK (2.5 mm)

This jack allows the use of an external 12 volts DC power source such as a 12V DC adaptor or car battery.

CHG (BATTERY CHARGER) JACK (COAXIAL)

This jack allows charging of rechargeable batteries without removing the batteries from the unit.

CAUTION: Do not try to charge the conventional non-rechargeable batteries.

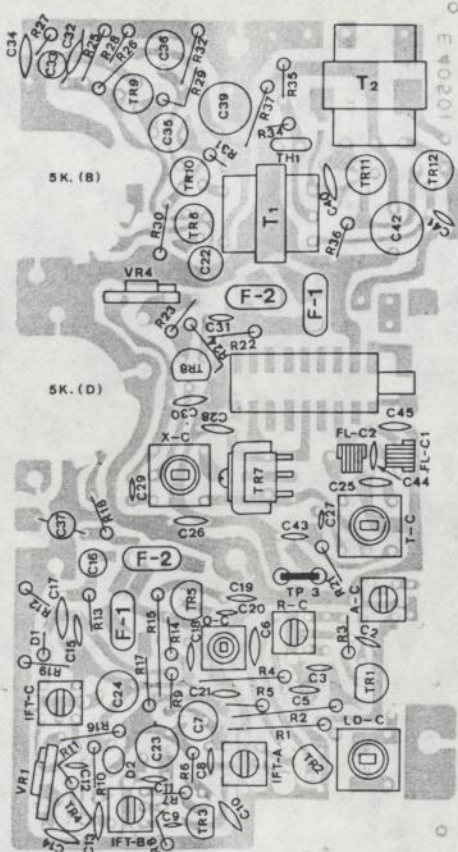
SPECIFICATIONS

Semiconductor Complement	11 Transistors, 2 Diodes, 1 Thermistor, and 1 transistor used in squelch circuit
Transmitter and Receiver Frequency	2-channel available, channel 11 (27.085 MHz) plug-in crystals factory installed in number F1 position.
Receiving System	Superheterodyne with RF stage, AGC and variable squelch
Intermediate Frequency	455 KHz
Modulation System	Push-pull high level Class B
Transmitter-Output Power	0.4-watt
Frequency Tolerance	±0.005%
Receiving Sensitivity	1 µV or better at 10 dB S/N
Antenna	Telescopic 13-section, 60" extended
Power Source	12-volt DC (8 penlight batteries self-contained or external 12-volt DC source)
Speaker/Microphone	Extra sensitive 2 1/4" PM dynamic, 8 ohms
Controls & Switches	2-channel selector switch, variable squelch, volume/on-off switch, push-to-talk switch
Accessory Jacks	Earphone jack, AC jack, battery charger jack
Dimensions	7" (H) × 2 3/5" (W) × 2" (D)

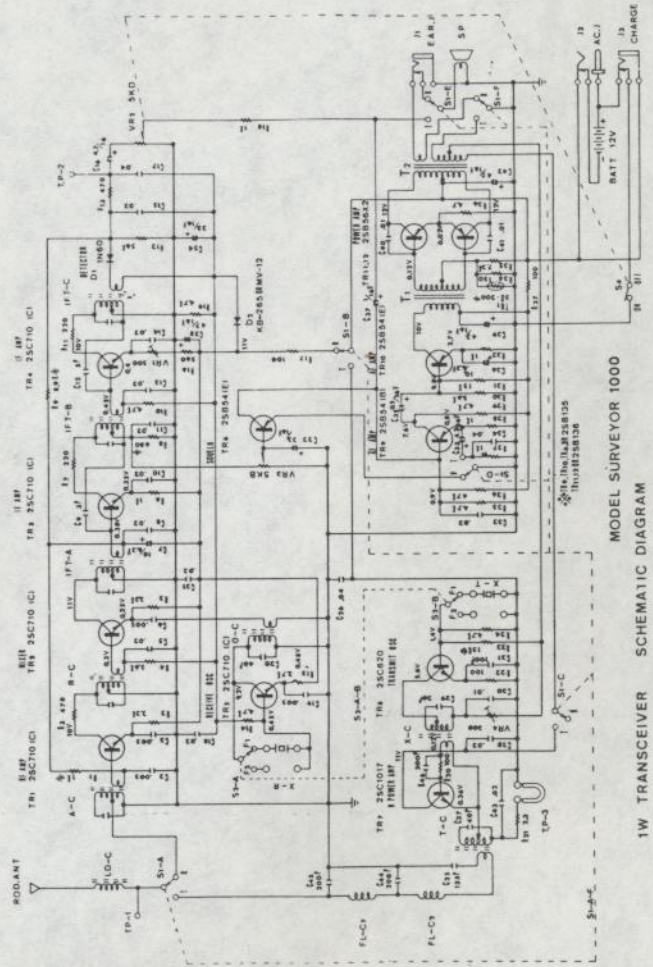
CIRCUIT BOARD ASSEMBLY

SCHEMATIC DIAGRAM

TOP VIEW



SURVEYOR 1000



1W TRANSCIVER SCHEMATIC DIAGRAM

WARRANTY POLICY

Surveyor Manufacturing Corporation herein warrants its new products to be free from defects in materials and workmanship under normal use and service for a period of 90 days after delivery to the original user.

If repair is necessary, return the unit prepaid to Surveyor Manufacturing Corporation, and if the failure, in our judgement is under the terms of our warranty Surveyor Manufacturing Corporation will repair and return to owner at no charge.

This warranty shall not apply to any Surveyor Manufacturing Corporation product which has been subject to misuse, neglect, accident, incorrect wiring not of our own installation, or to use in violation of instructions furnished by us, nor extended to units which have been repaired or altered outside of our factory.

This warranty is in lieu of all other warranties expressed or implied and no representative or person is authorized to assume for us any other liability in connection with the sale of our products.

Registration for warranty must be made within 10 days after customer purchase.

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