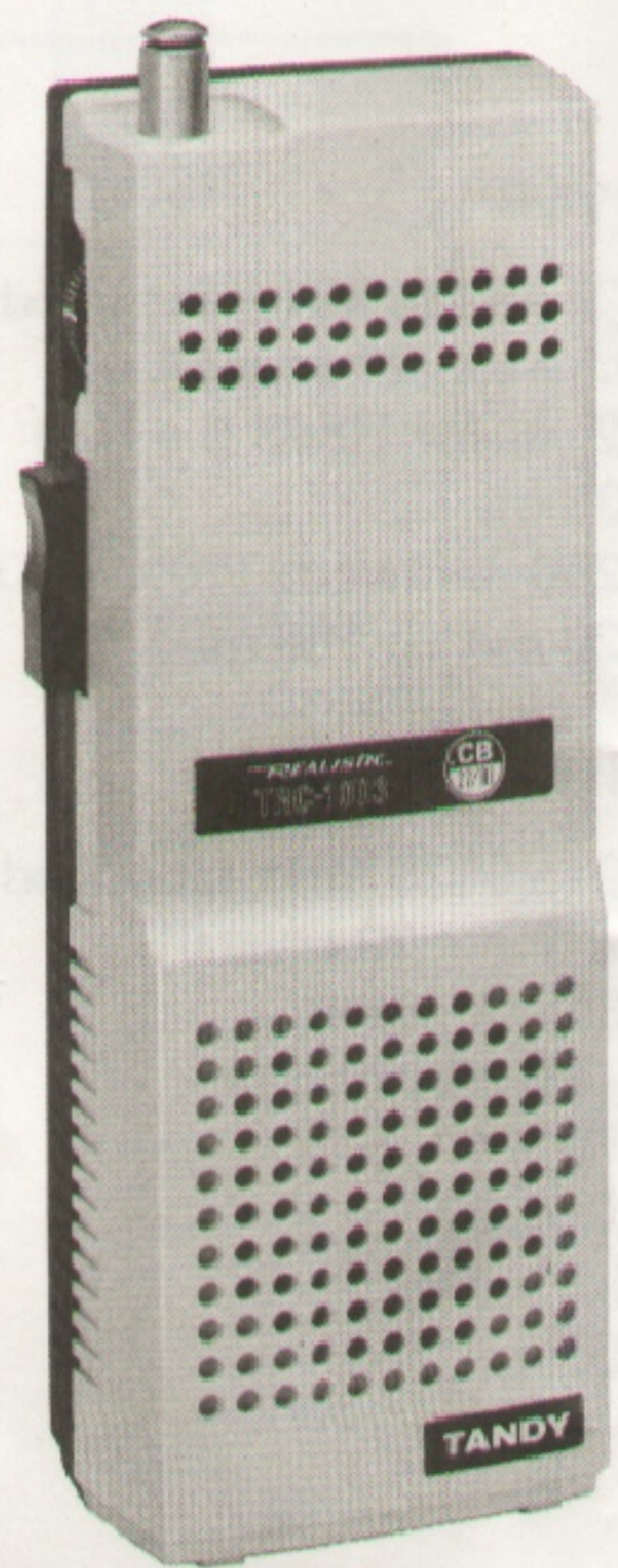


50 mW 27 MHz WALKIE-TALKIE



TRC-1003

OWNER'S MANUAL

PLEASE READ BEFORE
USING THIS EQUIPMENT

REALISTICTM

**CAT. NO.
21-9112**

CUSTOM MANUFACTURED FOR TANDY CORPORATION

Your **REALISTIC™** TRC-1003 is a FM 50-milliwatt CB Walkie-Talkie designed for portable 1-channel 2-way communications.

The TRC-1003 is a fine walkie-talkie — a quality piece of electronic equipment skillfully constructed from the finest components. The circuitry is all solid state, mounted on a rugged printed circuit board. It's constructed to provide reliable, trouble-free performance.

SPECIFICATIONS

RECEIVER

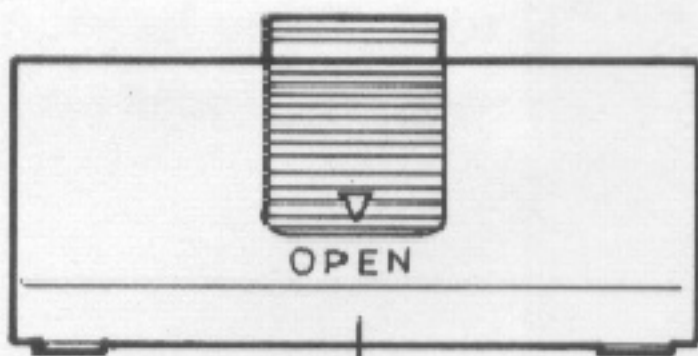
Frequency	: 27.79125 MHz (Supplied with channel 20 crystal)
Sensitivity	: 2 μ V for 10 dB S + N/N
Adjacent Channel Rejection	: 35 dB
Audio Output	: 250 milliwatts (10% THD)
Current Drain	: 20 mA to 150 mA

TRANSMITTER

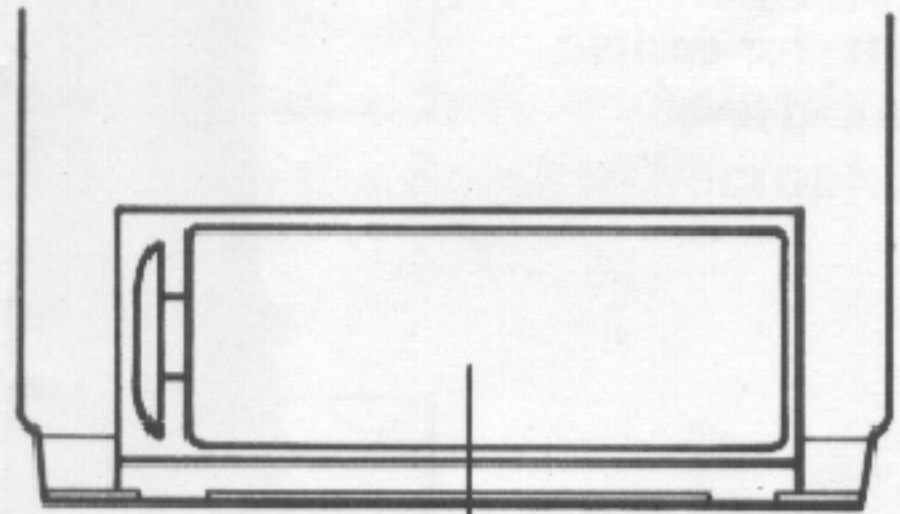
Frequency	: 27.79125 MHz (Supplied with channel 20 crystal)
Power Output	: 50 milliwatts
Spurious Emission	: -80 dB or better
Type of Emission	: F3
Frequency Tolerance	: 0.005%
Antenna Impedance	: 50 ohms
Current Drain	: 50 mA

PREPARING FOR USE

1. Slide off the Battery Compartment cover to install the Battery.
2. We recommend that you use heavy duty batteries such as Tandy's Alkaline ENERCELL (23-553) or equivalent.
3. Snap the battery connector onto the battery: place it inside the case and slide the Battery Compartment cover back onto the unit.



Battery Cover



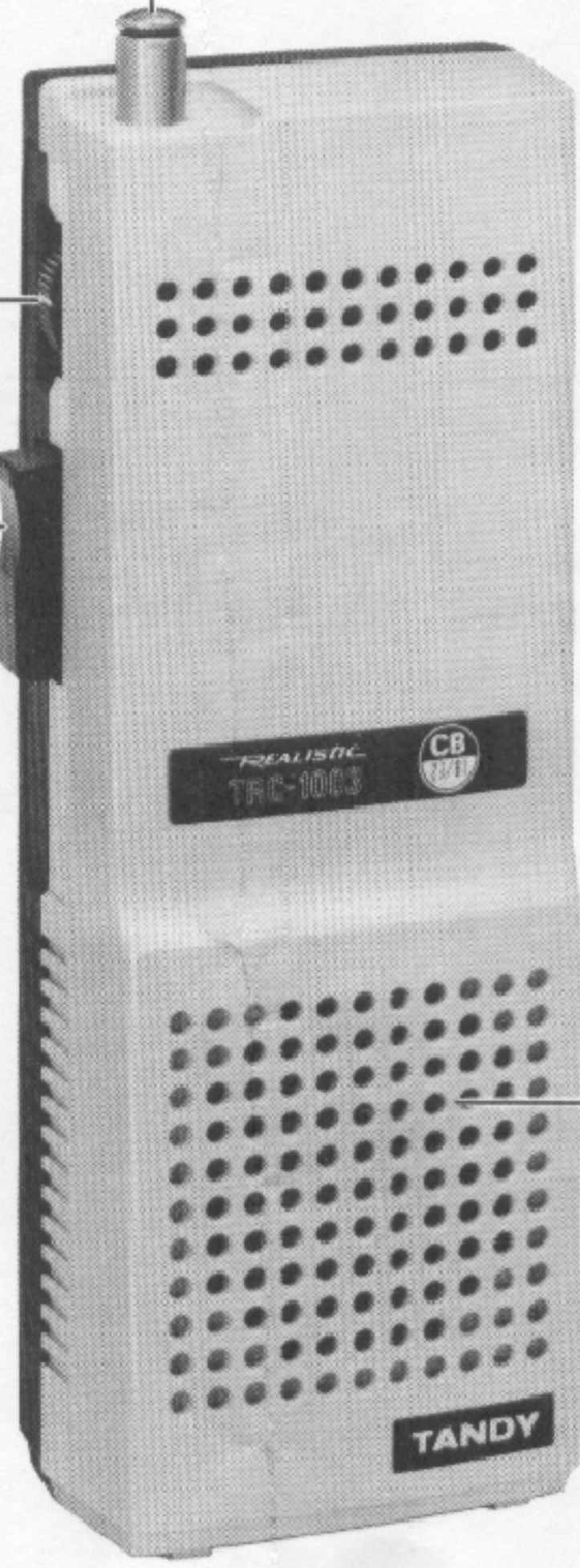
Battery

CONTROLS

Antenna
Extend fully.

VOLUME Control
Rotate downward
to apply power.
Adjust for desired
listening level.

TALK Button
Press to transmit.
Release to listen.



Speaker/Microphone
Listen and talk here.

USING YOUR WALKIE-TALKIE

TO RECEIVE:

1. Fully extend **Antenna** and keep in a vertical position.
2. Turn power "on" by rotating **VOLUME** downward.
3. Adjust **VOLUME** for a suitable listening level.

TO TRANSMIT:

1. Fully extend **Antenna** and keep in a vertical position.

IMPORTANT: If the **Antenna** is not fully extended, the efficiency of the transmitter is reduced and the power amplifier transistor could be damaged.

2. Turn power "on" by rotating **VOLUME** downward.
3. To transmit, press the **TALK** button. Speak slowly and clearly in a normal voice, 2 or 3" (5 cm or 7.5 cm) from the **Speaker/Microphone**.
4. To receive, release the **TALK** button.

USES FOR YOUR WALKIE-TALKIE

Applications for your Walkie-Talkie are limited only by your imagination. You can use it around the home, in the office or in place of your mobile CB unit. You can put it to good use on fishing, hunting and camping trips. Use it in your business. It can be used by TV technicians, plumbers, electricians, construction crews, surveyors, security patrols, forestry services and others.

Regardless of how you use it, enjoy it!

SERVICE AND MAINTENANCE

Your transceiver has been built in accordance with Tandy's exacting quality control standards. However, it should be treated with reasonable care accorded any electronic equipment. Avoid exposing it to severe shock, dirt or moisture.

To insure maximum range, always keep a fresh battery in the unit. As the voltage decreases it directly affects range. Use only a quality battery such as Tandy's Alkaline ENERCELL (23-553). You can use a more standard 9-volt battery such as our 23-464, but its life will be shorter and as a result you may not obtain optimum range.

If you run into problems with the unit, we recommend you check the following:

1. Check the Battery for weak condition. Replace if necessary.
2. If trouble is experienced with transmitting, make sure you are fully depressing the TALK button. Also, the Antenna must be fully extended for proper operation.
3. If these checks don't solve the trouble, do NOT attempt repairs or adjustments yourself. The unit should be serviced only by a qualified radio technician. Whenever possible, return unit to the store from which it was purchased.

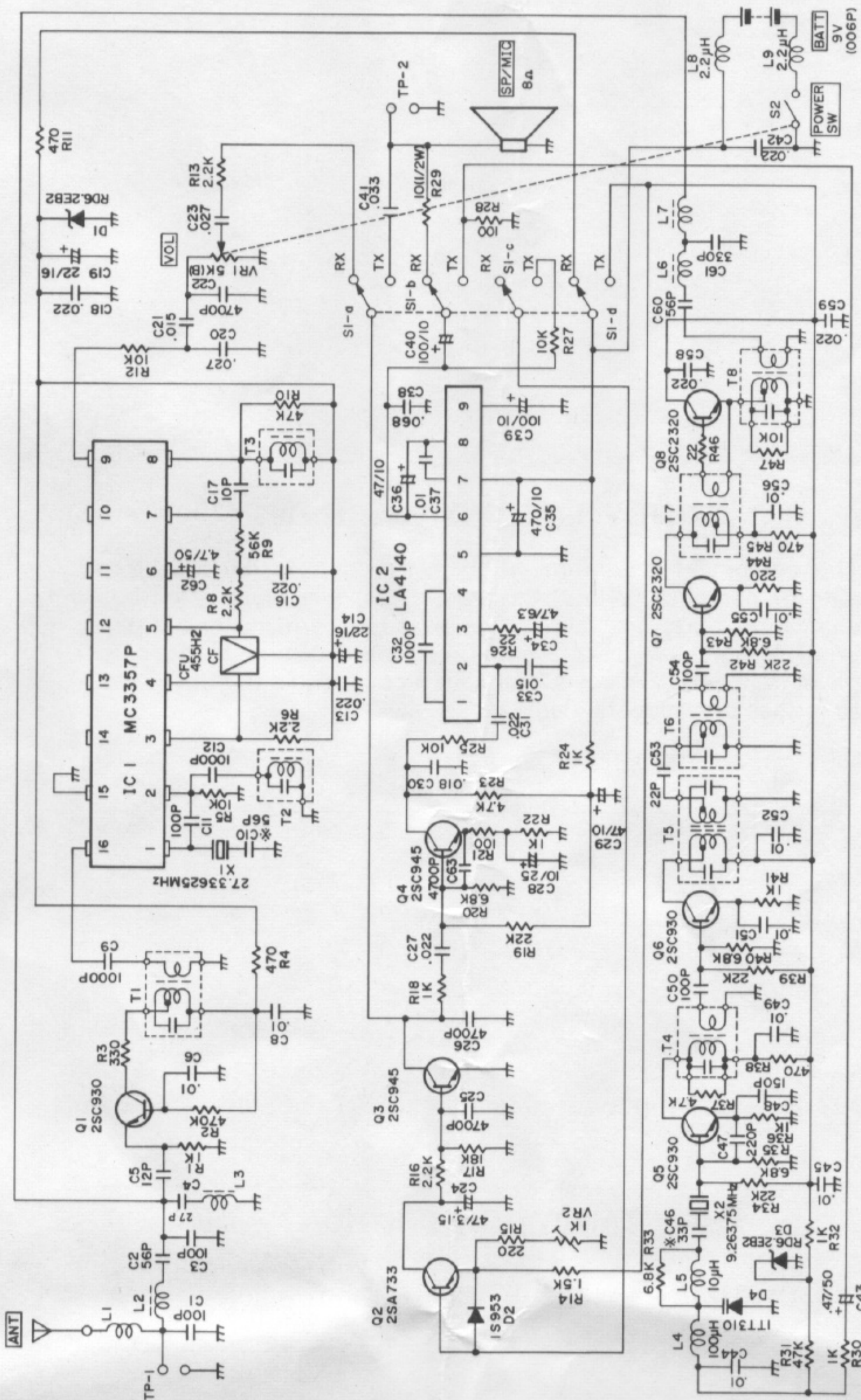
WARNING

- * Do not open up the Transceiver to make any internal adjustments. Internal adjustments and/or modification can lead to illegal operation as defined by licence term, and other regulations. Such illegal operation can lead to prosecution.
- * We can not be responsible for the proper operation of your Transceiver if you use other manufacturer's crystals; as a result, we urge you to use only crystals obtained through your local Tandy store.

TO BE SAFE AND SURE:

Never change or replace anything in your Transceiver other than the Battery. And, to be assured of on-frequency operation, use only crystals obtained through your Tandy store.

SCHEMATIC DIAGRAM



NOTE

- (1) ALL RESISTANCE VALUES ARE INDICATED IN "OHM" (K = 10³ OHM, M = 10⁶ OHM)
- (2) ALL CAPACITANCE VALUES ARE INDICATED IN "μF" (P = 10⁻⁶ μF)
- (3) * MAY VARY FROM UNIT TO UNIT FOR BEST PERFORMANCE

TANDY LIMITED WARRANTY

This equipment is warranted against defects for 90 days from date of purchase. Within this period, we will repair it without charge for parts and labor. Simply **bring your sales slip** as proof of purchase date to any Tandy store. Warranty does not cover transportation costs. Nor does it cover equipment subjected to misuse or accidental damage.

We Service What We Sell

For service, return this set to your nearest Tandy Electronics store.

TANDY CORPORATION

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WEST MIDLANDS, WSI 1LA