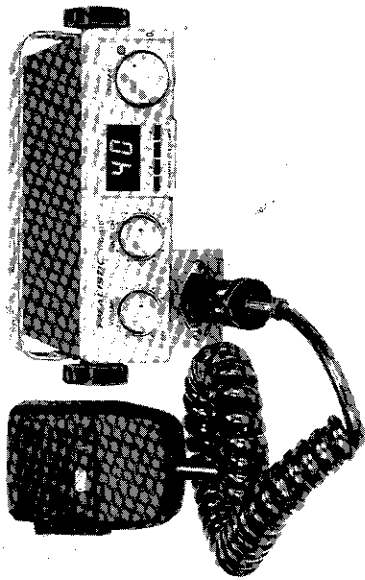


OWNER'S MANUAL

C.B. 40-CHANNEL TRANSCEIVER



PLEASE READ
BEFORE USING
THIS EQUIPMENT

TRC-415

CAT. NO. 21-1509

CUSTOM
MANUFACTURED
FOR RADIO SHACK
A DIVISION
OF TANDY
CORPORATION

REALISTIC[®]

RADIO SHACK LIMITED WARRANTY

This product is warranted against defects for 90 days from date of purchase from Radio Shack company-owned stores and authorized Radio Shack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply bring your Radio Shack sales slip as proof of purchase date to any Radio Shack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

EXCEPT AS PROVIDED HEREIN, RADIO SHACK MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

We Service What We Sell

RADIO SHACK, A DIVISION OF TANDY CORPORATION

U.S.A.: FORT WORTH, TEXAS 76102

CANADA: BARRIE, ONTARIO L4M 4W5

TANDY CORPORATION

AUSTRALIA

BELGIUM

U.K.

91 KURRAJONG AVENUE
MOUNT DRUITT, N.S.W. 2770

PARC INDUSTRIEL
5140 NANINNE (NAMUR)

BILSTON ROAD WEDNESBURY
WEST MIDLANDS W5107JN

Your **REALISTIC** TRC-415 is a compact 2-way 40-channel CB designed for Class D CB Mobile operation. Compact in size, it's also big in performance.

It is a quality piece of electronic equipment, skillfully constructed from the finest components. The circuitry is all solid-state, mounted on rugged printed circuit boards. It is designed for many years of reliable, trouble-free performance.

Your TRC-415 has a built-in 40-channel PLL synthesizer circuit. The Phase Lock Loop is a new technique for generating all the required frequencies with a single crystal. The result is much tighter frequency-control and superior reliability.

FEATURES

- Phase Lock Loop circuitry for precise frequency control and stability over all 40 channels
- Two ceramic filters for superior selectivity and freedom from adjacent channel interference
- Bright red LED channel indicator
- Built-in Automatic Modulation Control
- Hysteresis-type squelch circuit automatically compensates for signal fading, to eliminate signal "chopping"
- Dynamic-type communications microphone with locking-type connector.
- Built-in Automatic Noise Limiting circuit
- RF output power and signal strength LED meter
- Works with negative ground 12-volt DC systems
- External speaker jack
- Coax type antenna connector
- Universal mounting bracket
- Uses 3 ICs, 21 transistors, and 18 diodes

For your own protection, we urge you to record the serial number of this unit in the space provided. You'll find the serial number on the back panel of the unit.

Serial Number:

No FCC License Required (USA)

The FCC does not require a license for operation of this unit. However, you are required to read and

know part 95 of the FCC rules and regulations. They apply to the operation of a

class D citizen's band unit. We've provided a copy of these regulations with your unit.

BEFORE YOU CALL FOR HELP

Our repair centers receive many returned products that are actually working perfectly. Maybe the owner just did not read the instructions, or overlooked something. Or perhaps the problem was a blown fuse that

the owner could have easily replaced. So read this manual carefully and be sure you understand all the basic features of this CB — and the special ones, too! And before you assume your

Transceiver needs repair, refer to the Service and Maintenance section of this manual, to see if the problem is something you can eliminate. Enjoy your Realistic TRC-415!

SPECIFICATIONS

Receiver

Frequency Coverage

: All 40 CB Channels (class D)
26.965 to 27.405 MHz

Sensitivity

: 0.7 μ V or better for 10dB S+N/N

Adjacent Channel Rejection

: 60dB (at 10KHz)

Intermediate Frequency

: 1st IF = 10.695 MHz 2nd IF = 455 KHz

Audio Output

: 4 watts (max)

Frequency Response

: 450—2500 Hz

Cross Modulation

: 50dB (or better)

Squelch

: Adjustable from 0.6 μ V to 1mV

Transmitter

Frequency Coverage

: All 40 CB Channels (class D)
26.965 to 27.405 MHz

Power Output

: 4 watts (maximum)

Emission

: 8A3

Modulation Capabilities

: +90%, -90%

Spurious Radiation

: Less than -65dB

Frequency Tolerance

: Better than 0.002%

Antenna Impedance

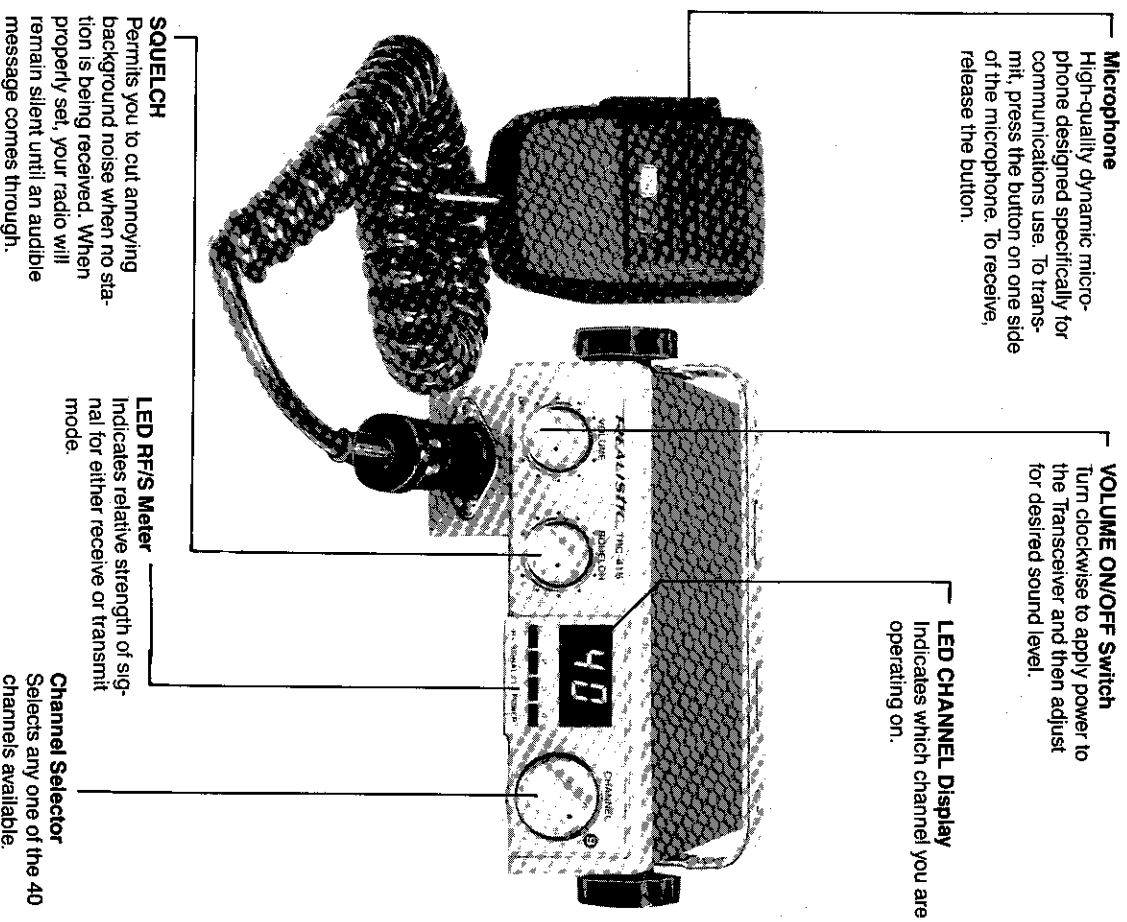
: 50 ohms

Current Drain (13.8 volt supply)

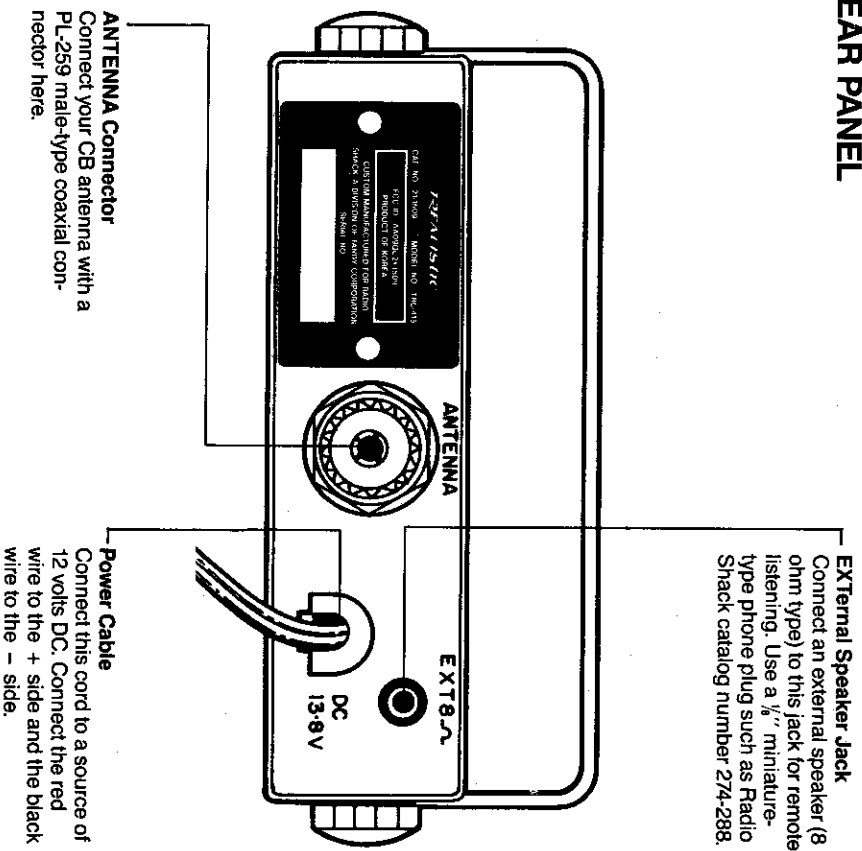
: 1000mA (no modulation)
1500mA (full modulation)

CONTROLS AND THEIR FUNCTIONS

FRONT PANEL



REAR PANEL



INSTALLATION

Safety and convenience are the primary considerations for mounting any piece of mobile equipment. All controls must be readily available to the operator of the vehicle. Be sure all cables are clear of the brake, clutch and accelerator. Also consider the convenience and comfort of passengers (for example, will they have adequate leg room?).

Consider also how easy installation and removal will be (for service and maintenance). Mount the Transceiver so it can be slipped in and out very easily.