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**Kraco KCB-2330B Owner's Manual**

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*Kraco*

**23-CHANNEL SOLID STATE 5-WATT MOBILE**

**2-WAY CB RADIO**

**MODEL KCB-2330B**

**INSTRUCTION MANUAL**

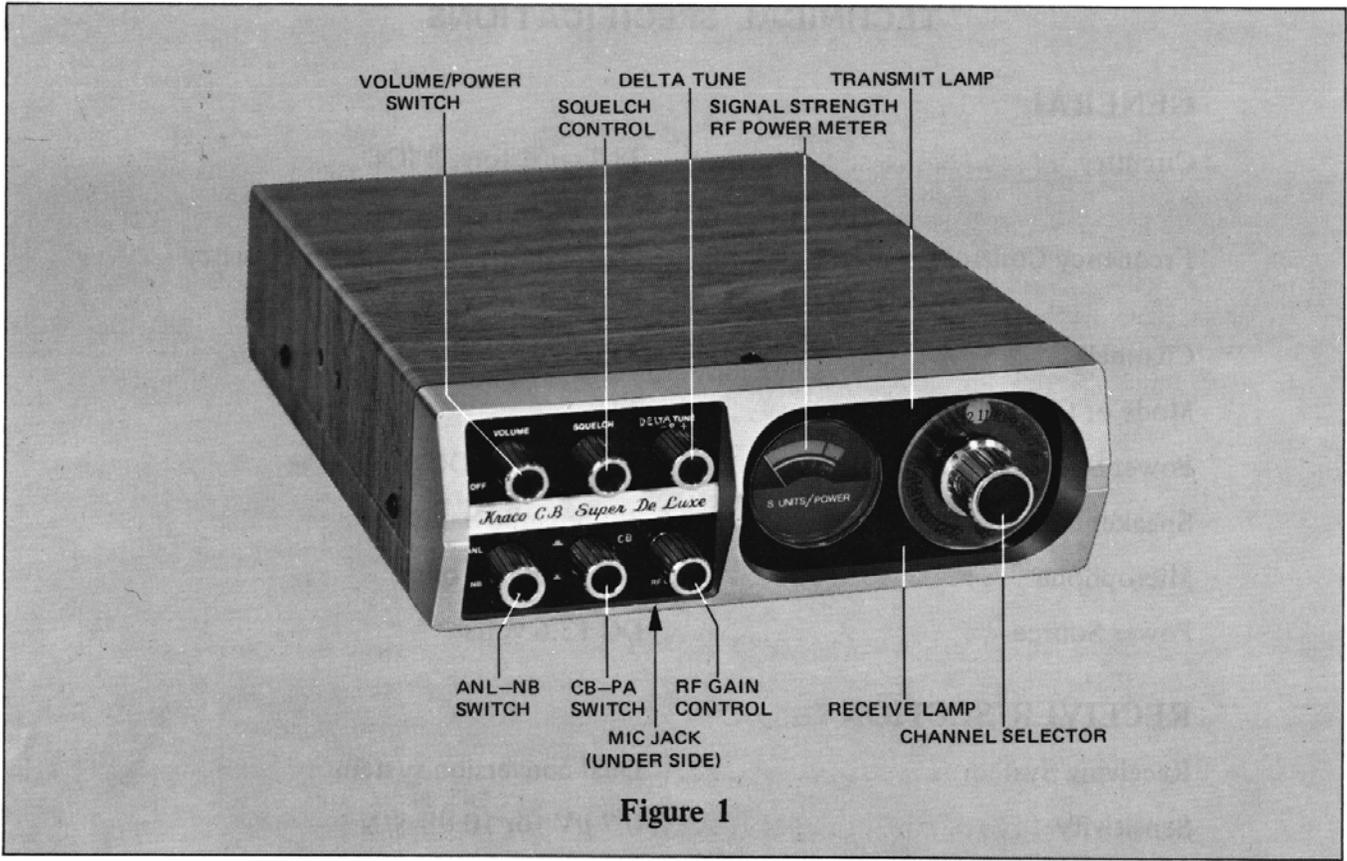


Figure 1

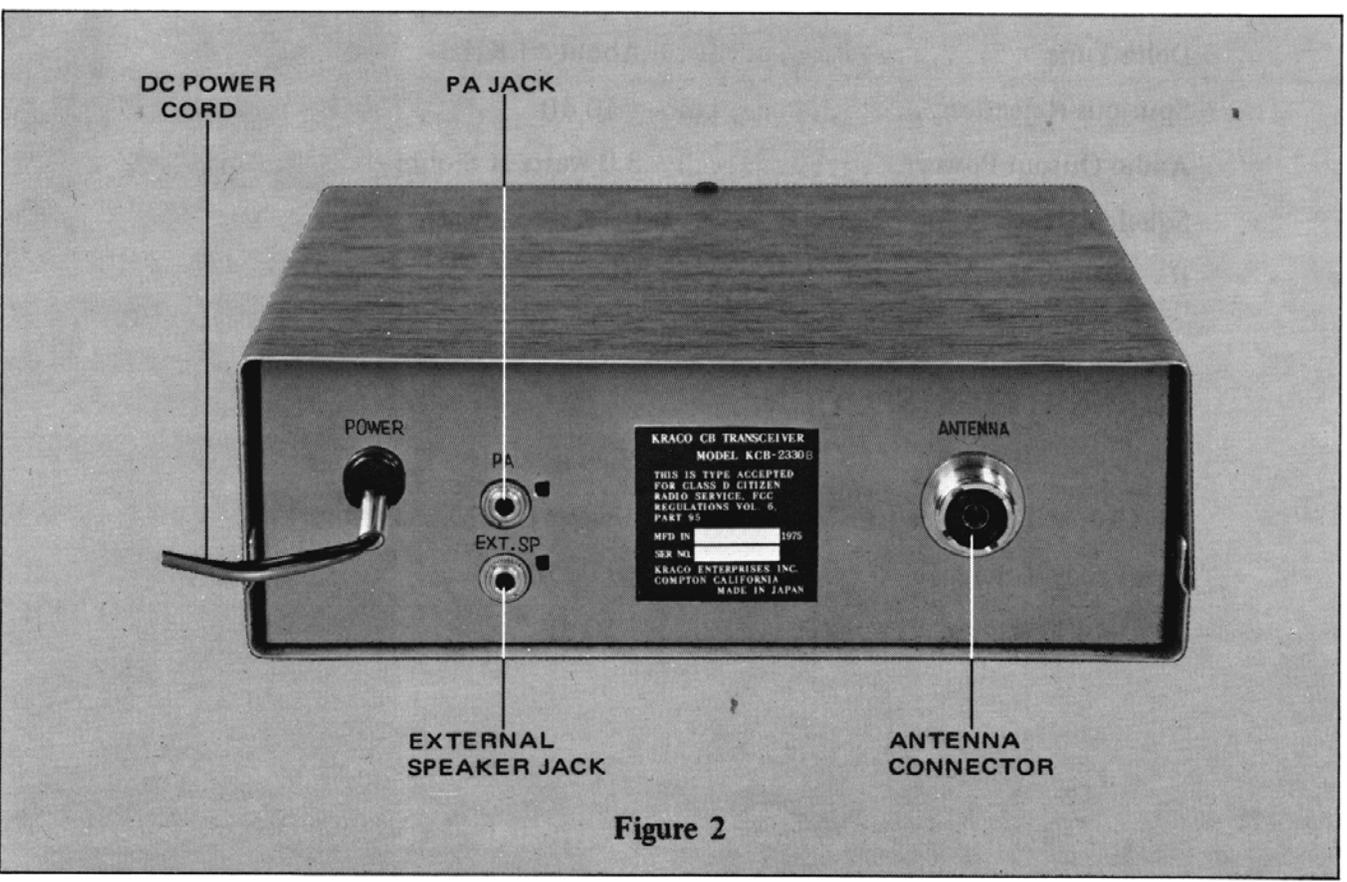
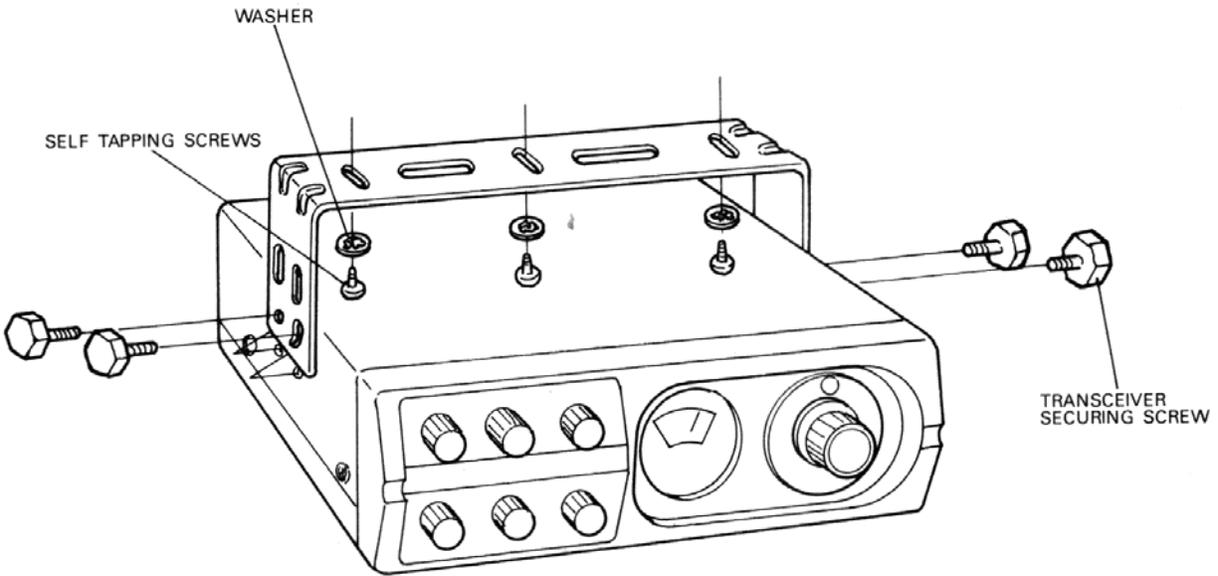


Figure 2



**Figure 3. Transceiver Mounting**

The Model KCB 2330B is a 23-channel 5W, Phase Lock Loop (P.L.L.) frequency synthesizing system CB mobile transceiver designed for use under the license of Class “D” operation.

The features of this transceiver are:

- \* 12.6V (11.5–14.5V) DC powered mobile mount transceiver with the latest high performance.
- \* RF gain control for better reception sensitivity.
- \* Built-in ANL (Automatic Noise Limiter)/NB (Noise Blanker) circuits to reduce undesirable noises you may encounter in reception.
- \* Delta tuning control which allows you to tune clearly to a station which is transmitting slightly off frequency.
- \* Separate transmit and receive indicator lamps.
- \* Continuously variable squelch control for quiet stand-by operation.
- \* Built-in PA (Public Address) system.
- \* Large illuminated signal strength and RF transmit power meter.
- \* High power, high efficiency in transmitting, and high sensitivity in reception.
- \* All front mount controls and switches for easy use.
- \* Versatile, Compact, Rugged Design.
- \* Simple in operation, suitable for mobile use.

## F.C.C. REQUIREMENTS

### IMPORTANT

This transceiver is designed for use under F.C.C. Rules and Regulations, Vol. VI, Part 95 and you are prohibited from operating this transceiver until you obtain your Citizens Band Class D License. This license is obtained by filing Application Form 505 (supplied with the unit) with the F.C.C. along with the proper filing fee. You are also required to read and understand Part 95 of the F.C.C. Rules and Regulations and all licensees are required to maintain an up-to-date copy of these rules. Subscription(s) must be filed with the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.

Adjustments to the transmitter circuit of the transceiver may be made only by, or under the supervision of a person holding a current commercial first or second class radio operator license.

Replacement or substitution of crystals, tubes or other components must be made only by components supplied by KRACO ENTERPRISES INC., 505E. Euclid Ave., Compton, California 90224.

### MOBILE INSTALLATION

First choose a location for mounting. The location should be a place which is convenient to use the transceiver and does not interfere with the driver. Usually the underside of the instrument panel or dashboard of a vehicle will be selected. A special bracket for this purpose is supplied with the unit.

1. The transceiver should be mounted as illustrated in Figure 3. First drill three or four holes (diameter about: 5/32"; 3.6 mm) in the location to be mounted.
2. Attach the bracket, using selftapping screws and washers supplied.
3. A microphone hanger is also supplied with the unit. Attach the hanger to a place close to the transceiver, using the two screws included.
4. Secure the transceiver to the bracket by means of the large screws and washers supplied.

### DC POWER CONNECTION

This transceiver is designed to be operated from a 12V DC battery on Negative or Positive Ground System.

#### A. Power Connection for Negative Ground System

1. Connect Black power lead from the transceiver to the metal chassis ground of the vehicle or negative battery terminal.
2. Connect Red power lead from the transceiver to any convenient hot (positive) side of the electrical system or Plus (+) battery terminal.

#### B. Power Connection for Positive Ground System

1. Connect Black power lead from the transceiver to any convenient hot (negative) side of the electrical system or Minus (−) battery terminal.
2. Connect Red power lead from the transceiver to the metal chassis ground of the vehicle or positive battery terminal.

**NOTE:** If you are not sure of the electrical ground system employed in your vehicle, please consult with your car dealer or directly connect the Red lead to the Plus (+) battery terminal and Black lead to the Minus (-) battery terminal to avoid any possible short circuit.

## **ANTENNA CONNECTION**

**BEFORE OPERATING THE TRANSCEIVER, YOU MUST CONNECT A PROPER ANTENNA SYSTEM. OPERATING THE TRANSCEIVER WITHOUT AN ANTENNA OR A DUMMY LOAD MAY CAUSE DAMAGE TO THE EXPENSIVE RF POWER TRANSISTORS.**

The antenna is one of the most important factors in the operation of the transceiver with its full efficiency. An improper antenna may decrease reception sensitivity and lowers the communication range in transmitting. The CB antenna and its mounting method will largely depend upon the type of your vehicle, mounting position, etc. Also the antenna may be different according to your needs – using the transceiver as a mobile or base station transceiver. We recommend you consult with your dealer from which you purchased the transceiver or any other CB/Amateur radio equipment supplying shops. They will meet your specific needs.

## **DESCRIPTION ON FRONT & REAR PANEL FACILITIES**

### **VOLUME/POWER SWITCH**

This turns the power on or off. To turn the power on, rotate the knob clockwise; to turn power off, rotate the knob counter clockwise until a click is heard. Turning the knob clockwise increases the volume from the built-in speaker. This volume does not affect the transmit power.

### **SQUELCH CONTROL**

This silences undesirable background noise when no signal is received. The squelch level can be varied by adjusting the control knob. Usually this will be done as follows:

1. Turn the power on and rotate the VOLUME knob until a background noise is heard.
2. Rotate the SQUELCH control knob clockwise until the background noise disappears.
3. Now you can receive signals without annoying background noises. However, rotating the squelch control too far clockwise decreases reception sensitivity and a very weak station would not be received. Therefore, when you want to communicate with such a station, rotate the squelch control all the way counter clockwise.

### **DELTA TUNE SWITCH**

When a station received is not clear, please place this switch in either the “+” or “-” position for clearer reception. For normal operation, place the switch in “0” position.

## **ANL—NB SWITCH**

This is the switch that actuates the ANL (Automatic Noise Limiter) and NB (Noise Blanker) circuits to reduce any undesirable noise you may encounter during the receive operation. The noise blanker is the circuit designed to blank out impulse noises for quiet reception. Place the switch in either position for minimum noise interference when the noise is excessive.

## **CB—PA SWITCH**

This selects the mode of operation. For normal CB operation, place the switch in the CB (released out) position but place in the PA (depressed) position when using the transceiver as a public Address Amplifier.

## **RF GAIN CONTROL**

This control adjusts the RF gain of the receiver. To increase the gain (reception sensitivity) rotate the knob clockwise and to decrease the gain, rotate in the reverse direction. When your transceiver is operated in an excessively strong signal strength area, the reception may sound distorted due to the signal overload. To correct this, adjust the RF gain control to decrease the reception sensitivity.

## **SIGNAL STRENGTH/RF POWER METER**

During reception, this indicates a relative signal strength in S unit on the upper scale. During transmission this indicates the transmit power from the antenna on the lower scale. The meter pointer flickers slightly when you are speaking into the microphone, indicating your voice is being transmitted.

## **TRANSMIT LAMP**

This lamp lights up while you are pressing the Push-to-Talk switch on the microphone, indicating the transceiver is in the transmit mode.

## **RECEIVE LAMP**

This lamp turns on while your transceiver is in receive mode.

## **CHANNEL SELECTOR**

This selects one of 23-channels desired.

## **MIC JACK**

This accepts a 4-pin microphone plug from the Push-to-Talk Microphone supplied with the unit.

## **EXTERNAL SPEAKER JACK**

This will be used when connecting an earphone or external speaker having an impedance of about 8 ohms. Connecting the earphone or speaker plug into this jack automatically silences the built-in speaker.

## **PA JACK**

When you operate the transceiver as a Public Address amplifier, connect a PA speaker (8 ohms) to this jack.

## **ANTENNA CONNECTOR**

This accepts a standard PL-259 type coaxial antenna connector which should be connected to the antenna cable end.

## **OPERATION**

**MAKE SURE YOUR ANTENNA SYSTEM IS CONNECTED TO THE ANTENNA CONNECTOR ON THE REAR PANEL. DO NOT OPERATE THE TRANSCEIVER WITHOUT CONNECTION OF YOUR ANTENNA SYSTEM.**

1. Connect the Push-to-Talk microphone to the MIC jack.
2. Place the CB-PA switch in the "CB" position.
3. Turn the power on and increase the sound level.
4. If necessary adjust the squelch control.
5. Select the channel you desire.
6. To transmit: Depress the Push-to-Talk button on the microphone and speak into the microphone at a normal voice, holding the microphone 3 to 6 inches from the mouth. Do not shout or move the microphone too close to your mouth.
7. To receive: simply release the Push-to-Talk button.

### **When using the transceiver as a public address amplifier**

1. Connect a PA speaker to the PA jack on the rear panel.
2. Place the CB-PA switch in the PA position.
3. Turn the power on.
4. Depress the Push-to-Talk switch on the microphone and speak into the microphone. Your voice will be heard from the PA speaker.

## **INTERFERENCE NOISES IN RECEPTION**

During reception you may find that your transceiver will pick up interference which makes the reception of weaker stations difficult. The most common source of these noises is the ignition

system of your vehicle, because your transceiver is placed relatively close to your ignition system (engine). In such a case, we recommend you consult with your car dealer to eliminate the ignition noise. Usually the ignition noise will be suppressed considerably by using a radio suppression type high voltage ignition wire and suppressor resistor in the ignition system. (Most vehicles employ this wire and resistor but it may be necessary to check them for correct operation.)

Another method to suppress the noise is to use additional noise suppressors, which are available from CB/Amateur radio equipment supply shops.

## **LIMITED WARRANTY**

Kraco warrants this product to be free from defects in material and workmanship under normal use and service. This warranty is limited to the replacement of defective parts, provided that defect occurs within 90 days from date of purchase and provided that product is returned immediately to Kraco. We will repair free of charge or replace at no charge any unit which our examination shall disclose to be defective and under warranty.

This warranty shall be valid only when a purchaser has filled in and has on file at the factory a warranty registration card. If no warranty card is on file, a sales receipt showing the date of purchase must accompany the article being returned.

The provisions of this warranty shall not apply to any part which is used for a purpose for which it is not designed, or which shall have been repaired or altered in any way, as to affect adversely its performance and reliability; nor shall this warranty apply to any part which has been subject to misuse, neglect or accident.

Kraco does not authorize any other person to assume any other liability in connection with its product and the implied warranty of mercantibility and fitness as limited to the duration of this warranty.

Your unit will be serviced on an in-warranty basis within the guarantee period for the correction of warranted defects if the unit is returned postage prepaid and packaged in the original shipping carton with \$5.00 to cover handling, return postage and insurance-check or money order only-no stamps. Do not return the set to your dealer. Return your unit with the description of the problem to:

**KRACO STEREO WARRANTY DEPARTMENT, 505E. Euclid Ave.,  
Compton, California 90224**

**Kraco Enterprises Inc.**