

GENERAL OPERATING PROCEDURE

CAUTION: Before operating this transceiver, you are required by law to read and understand Part 95 of the FCC Rules and Regulations.

Check to see if the proper connections have been made on the power cable, antenna system and microphone.

1. RECEIVER

- (a) Turn all rotary controls counter clockwise.
- (b) Put PA-CB switch to CB position.
- (c) Put ANL-OFF Switch to ANL position.
- (d) Turn the ON-OFF switch (on the volume control) to the "ON" position.
The channel dial and meter light will come on.
- (e) Put Tone control to "LOW" position.
- (f) Select the desired operating channel (1-23).
- (g) Set the Delta Tune switch to its center position.
- (h) Advance the Volume control to normal listening levels.
- (i) Adjust the Squelch control.
- (j) When a signal is heard, adjust the Delta Tune for maximum "S" meter reading.

2. TRANSMITTER

IT IS ILLEGAL TO OPERATE THE TRANSMITTER SECTION OF THIS TRANSCEIVER PRIOR TO RECEIVING A VALID STATION LICENSE AND CALL SIGN.

TO TRANSMIT:

CAUTION: Never operate this unit without an adequate antenna system or load as damage may result.

1. Select the desired channel.
2. Depress the push-to-talk switch on the microphone and talk in a normal voice level.

SERVICING YOUR TRANSCEIVER

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 your own transceiver, do not attempt to make any transmitter tuning adjust-

ment. Adjustments are prohibited by the F.C.C. unless you hold or are in the presence and under the supervision of a first or second class radiotelephone licensed person. A Citizens Band or Amateur license is not sufficient.

CRYSTAL FREQUENCY CHART

(A) Group 6 pcs.

X¹ 37.60 MHz
 X² 37.65 MHz
 X³ 37.70 MHz
 X⁴ 37.75 MHz
 X⁵ 37.80 MHz
 X⁶ 37.85 MHz

(B) Group 4 pcs.
 (Transmittig)

X⁷ 10.635 MHz
 X⁸ 10.625 MHz
 X⁹ 10.615 MHz
 X¹⁰ 10.595 MHz

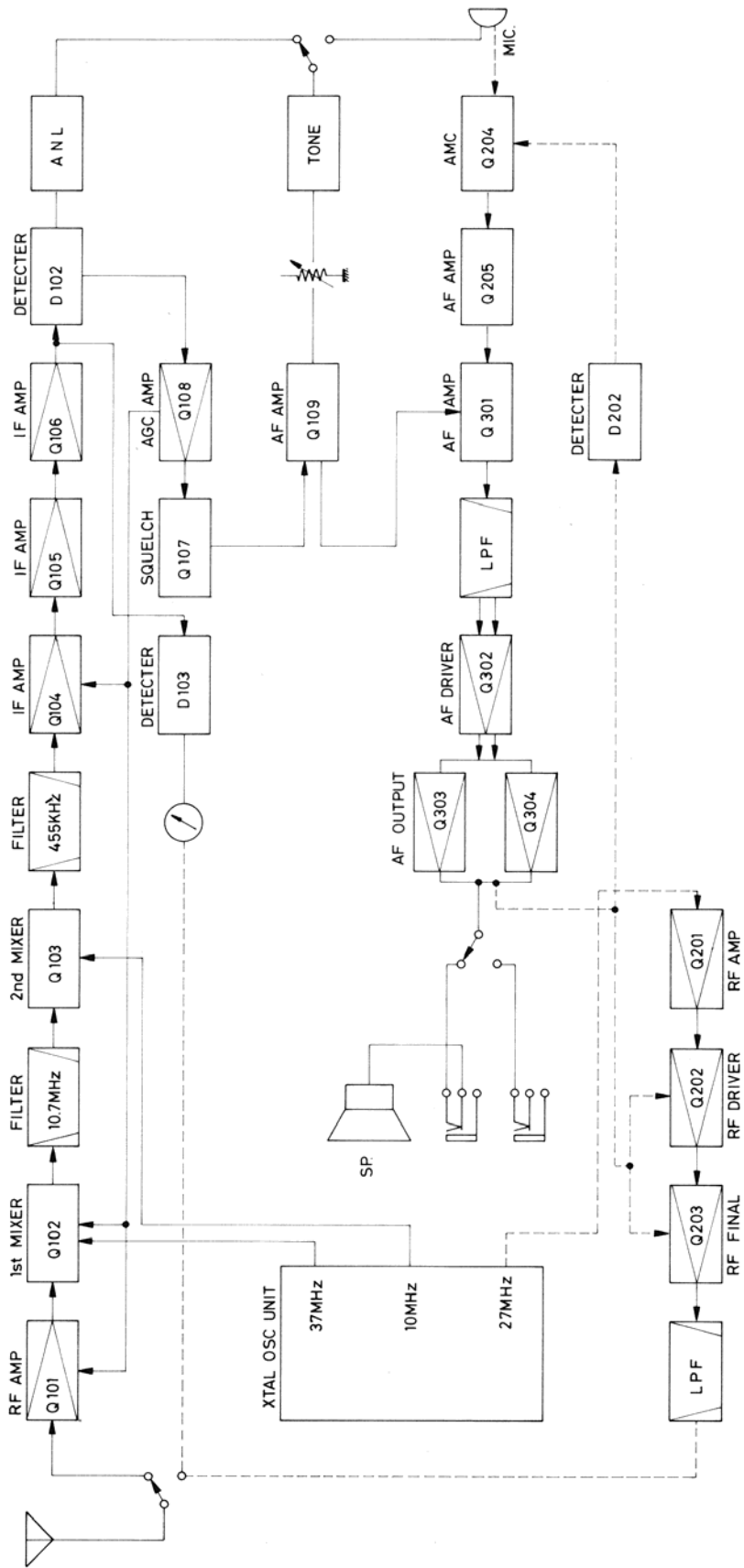
(C) Group 4 pcs.
 (Receiving)

X¹¹ 10.18 MHz
 X¹² 10.17 MHz
 X¹³ 10.16 MHz
 X¹⁴ 10.14 MHz

CHANNEL	FREQUENCY(MHz)	COMBINATION (Transmit)	COMBINATION (Receive)
1.	26.965	X ¹ -X ⁷	X ¹ -X ¹¹
2.	26.975	X ¹ -X ⁸	X ¹ -X ¹²
3.	26.985	X ¹ -X ⁹	X ¹ -X ¹³
4.	27.005	X ¹ -X ¹⁰	X ¹ -X ¹⁴
5.	27.015	X ² -X ⁷	X ² -X ¹¹
6.	27.025	X ² -X ⁸	X ² -X ¹²
7.	27.035	X ² -X ⁹	X ² -X ¹³
8.	27.055	X ² -X ¹⁰	X ² -X ¹⁴
9.	27.065	X ³ -X ⁷	X ³ -X ¹¹
10.	27.075	X ³ -X ⁸	X ³ -X ¹²
11.	27.085	X ³ -X ⁹	X ³ -X ¹³
12.	27.105	X ³ -X ¹⁰	X ³ -X ¹⁴
13.	27.115	X ⁴ -X ⁷	X ⁴ -X ¹¹
14.	27.125	X ⁴ -X ⁸	X ⁴ -X ¹²
15.	27.135	X ⁴ -X ⁹	X ⁴ -X ¹³
16.	27.155	X ⁴ -X ¹⁰	X ⁴ -X ¹⁴
17.	27.165	X ⁵ -X ⁷	X ⁵ -X ¹¹
18.	27.175	X ⁵ -X ⁸	X ⁵ -X ¹²
19.	27.185	X ⁵ -X ⁹	X ⁵ -X ¹³
20.	27.205	X ⁵ -X ¹⁰	X ⁵ -X ¹⁴
21.	27.215	X ⁶ -X ⁷	X ⁶ -X ¹¹
22.	27.225	X ⁶ -X ⁸	X ⁶ -X ¹²
23.	27.255	X ⁶ -X ¹⁰	X ⁶ -X ¹⁴

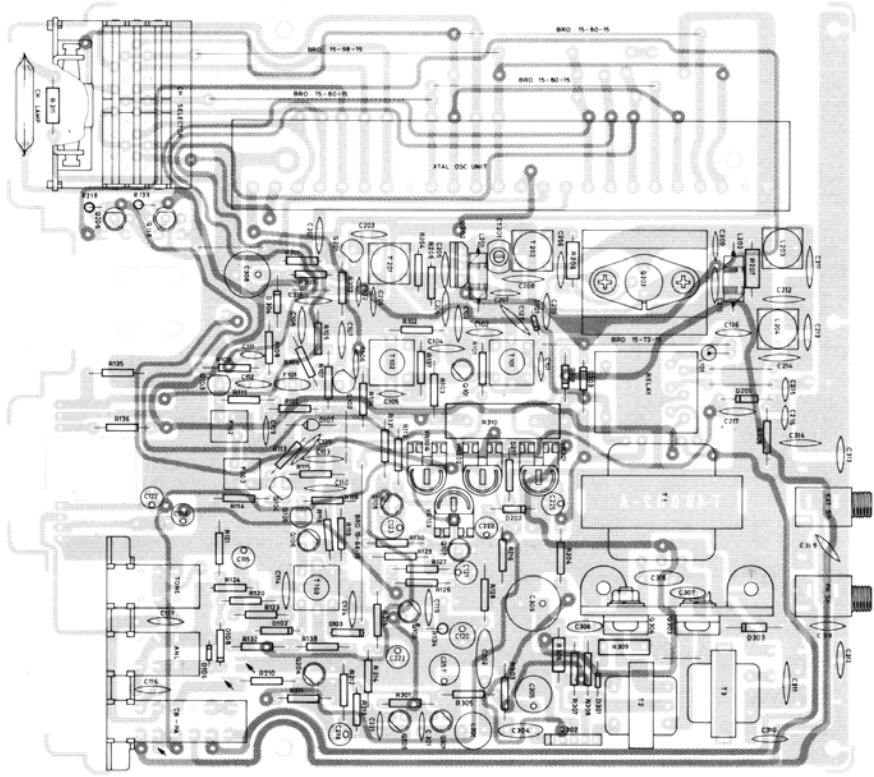
WARNING: ANY CHANGE OF CRYSTALS OR OTHER COMPONENTS WHICH WOULD RESULT IN VIOLATIONS OF THE FCC TECHNICAL REQUIREMENTS MUST NOT BE MADE. THESE UNAUTHORIZED CHANGES WILL VOID TYPE ACCEPTANCE OF THIS UNIT.

BLOCK DIAGRAMS

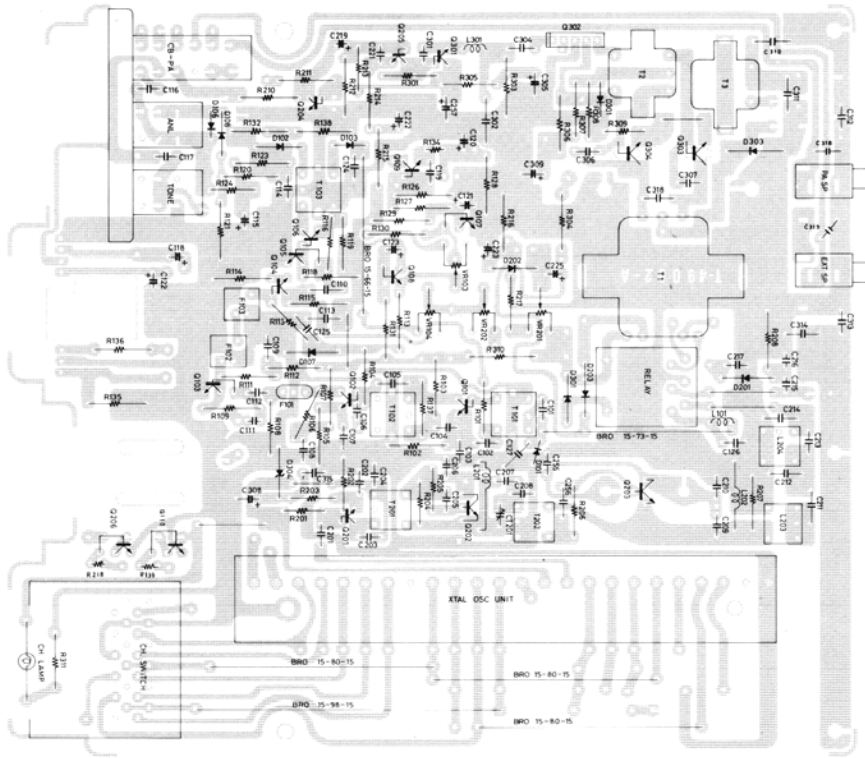


PARTS LAYOUT

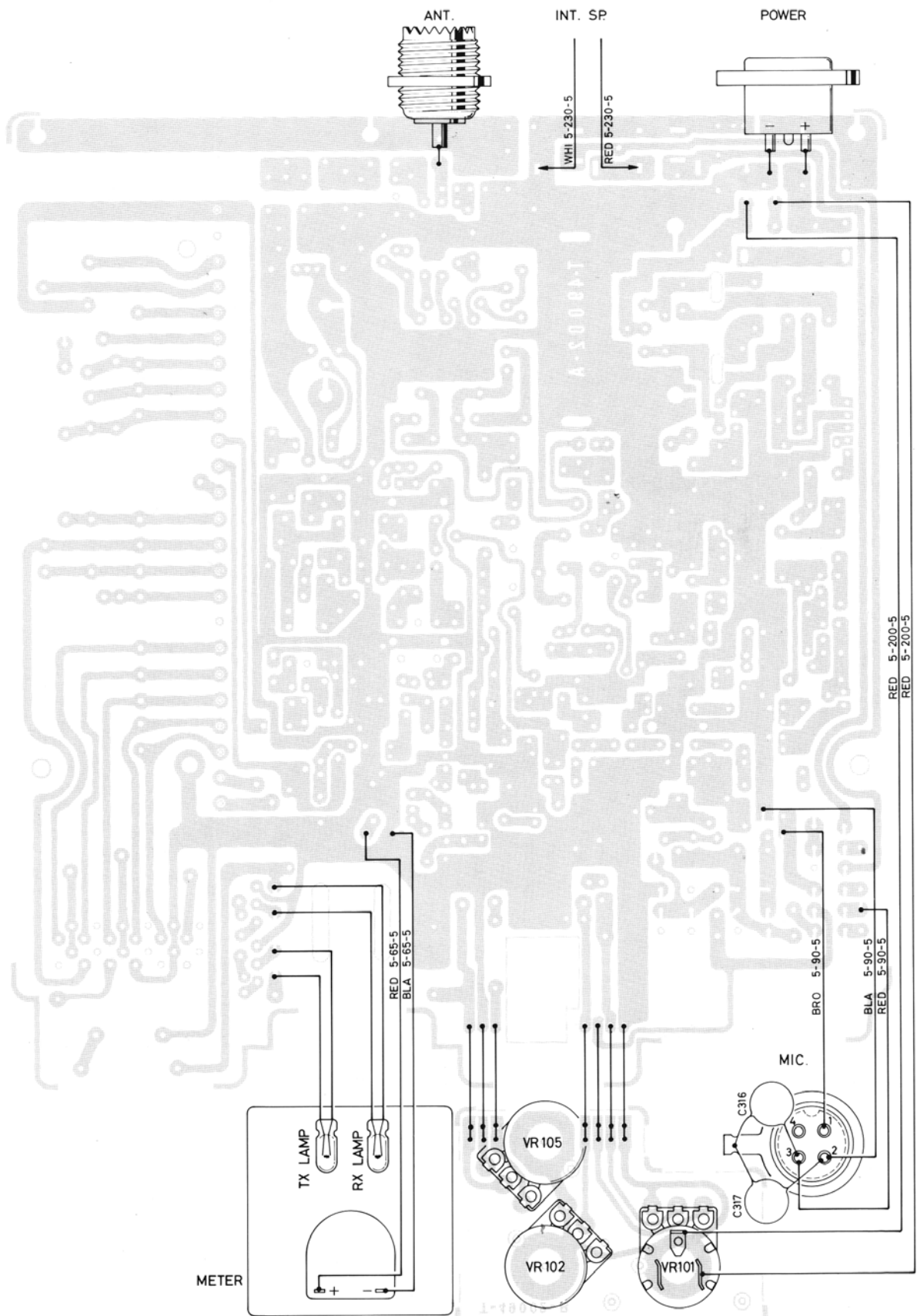
TOP VIEW



BACK VIEW



WIRING DIAGRAM



FEDERAL COMMUNICATIONS COMMISSIONS REQUIREMENTS

Your new Royce 1-601 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 \$2.25 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.

ROYCE ELECTRONICS CORPORATION HEREBY CERTIFIES THAT THIS EQUIPMENT HAS BEEN DESIGNED, MANUFACTURED AND FURNISHED IN ACCORDANCE WITH VOL. 6 PART 95 OF THE CURRENT FCC RULES AND REGULATIONS FOR CLASS D CITIZENS BAND OPERATION.

WARRANTY POLICY

Royce products are built to rigid specifications and are quality audited at several stages in their manufacturing. We warrant each new Royce product to be free from defects in material and craftsmanship for a period of 90 days under normal use. 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 where a purchaser has filled in and has on file at the factory a warranty registration card (supplied with all units). If no warranty card is on file, a sales receipt showing the date of purchase must accompany the article being returned.

This warranty is invalid to any Royce product which has been subject to misuse, neglect, accident, modifications in wiring not of our own installation, or to the use in violation of instructions furnished by us. It is also not applicable to units which have been modified or repaired outside our factory.

This warranty does not cover earphones, carrying cases, antennas, batteries, broken or cracked cabinets, or any accessory used in connection with the product.

Should in warranty repair be required, carefully pack the unit and ship it, insured prepaid, to the address listed below. Enclose \$3.00 to cover return postage and handling.

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.

Royce  electronics corporation

1746 Levee Road North Kansas City, Missouri 64116

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