



Figure 3.1 RCI-2980 Controls and Indicators

### 3.1 OPERATION

#### 3.1.1 Controls and Indicators

There are 17 Controls and 10 Indicators on the front panel.

- (1) **POWER/ON-OFF:** Place in Power (Push Button In) position to apply power to the unit.
- (2) **RB SWITCH:** The switch activates the ROGER BEEP circuit when placed in RB (Lever Up) position.
- (3) **NB SWITCH:** This switch activates the noise blanker circuit in the audio when placed in NB (Lever Up) position.
- (4) **ECHO SWITCH:** Set this switch to ECHO when you desire to add an echo effect to your transmitting voice. This switch has no effect on receiving.
- (5) **+10 kHz SWITCH:** This switch adds 10 kHz to the frequency being used. Example, if frequency counter displays 28.000, flip the switch and the display will read 28.010 MHz.

(6) **SWR CALIBRATE SWITCH:** This switch changes the SWR meter function in two ways:

- **CALIB (Lever Down):** Used to calibrate the SWR meter before measuring.
- **SWR (Lever Up):** Used to directly read the SWR of antenna connected to the unit.

(7) **CALIBRATE CONTROL:** This control is used for calibrating the SWR meter for accurate SWR readout in conjunction with the SWR CALIB switch.

**NOTE**

- So that the meter functions as RF power meter, be sure to set this control to fully counterclockwise position marked RF.

(8) **TONE CONTROL:** This changes tone sound quality when receiving. Clockwise rotation will emphasize the high tone.

(9) **RF GAIN:** This control is used primarily to optimize the reception in strong signal areas. Under normal operating conditions the control should be turned fully clockwise. When strong or distorted signals are received rotate this control counterclockwise to reduce gain.

**NOTE**

- The Squelch Control may require readjustment with reduced RF Gain control.

(10) **MICROPHONE GAIN:** A preamplifier circuit is built into this unit to increase microphone gain. Experiment with this control for the setting that will best suit your individual use.

(11) **CHANNEL SELECTOR:** Has 40 detents in a turn and selects one of the channels desired. The selected Channel is digitally displayed in the window above the selector.

(12) **MODE SELECTOR:** Selects the mode of operation in either CW, standard FM, AM or USB and LSB. Transmissions in any mode can only be communicated to stations operating in the same mode.