

# Colt 444 AM/FM

YOU HAVE JUST PURCHASED THE VERY BEST  
120-CHANNEL AM/FM MOBILE CITIZENS BAND  
TWO WAY RADIO



## INSTRUCTION MANUAL



# SECTION 1

## GENERAL INFORMATION

### DESCRIPTION

Your COLT 444 AM/FM represents the most advanced Mobile Station type radio ever designed for use in the Citizens Band Radio Service. It will operate on any of the 120 frequencies designated as citizens band channels. Your COLT 444 AM/FM features a frequency synthesizing circuit with PHASE LOCK LOOP techniques to assure ultraprecise frequency control.

### SPECIFICATIONS

#### GENERAL

Channels:	120-CH
Frequency Range:	26.515 MHz to 27.855 MHz
Frequency Control:	PLL Synthesized.
Antenna Impedance:	50 ohms
Power Input:	13.8 V DC
Accessories:	Microphone, Microphone Hanger, Mounting Bracket.
Size:	180m/m(W) × 198m/m(D) × 60m/m(H).
Weight:	2.3Kgs.

#### TRANSMITTER

Output Power:	0.5—5—10 Watts.
Hum and Noise:	Better than -60 dB
Frequency Tolerance:	0.005%
Modulation Percentage(Peak):	100%
FM Deviation:	±1.5kHz with 1250Hz 20mV audio

#### RECEIVER

Sensitivity at 10dB N/S+N:(AM)	1.0 $\mu$ V
Sensitivity at 20 dB Signal-to-noise ratio(FM)	0.7 $\mu$ V
Squelch Threshold:	0.5 $\mu$ V — 500 $\mu$ V(Adjustable)
Maximum AF Output Power:	4 watts
Frequency Response:	400 Hz — 2,000 Hz
Image Rejection:	More than 45 dB
Selectivity:	5 KHz.
Speaker Impedance:	8 ohms.



## INTRODUCTION

This radio has been designed to provide high level performance in the Citizens Band Radio Service, which is comprised of the following frequency assignments :

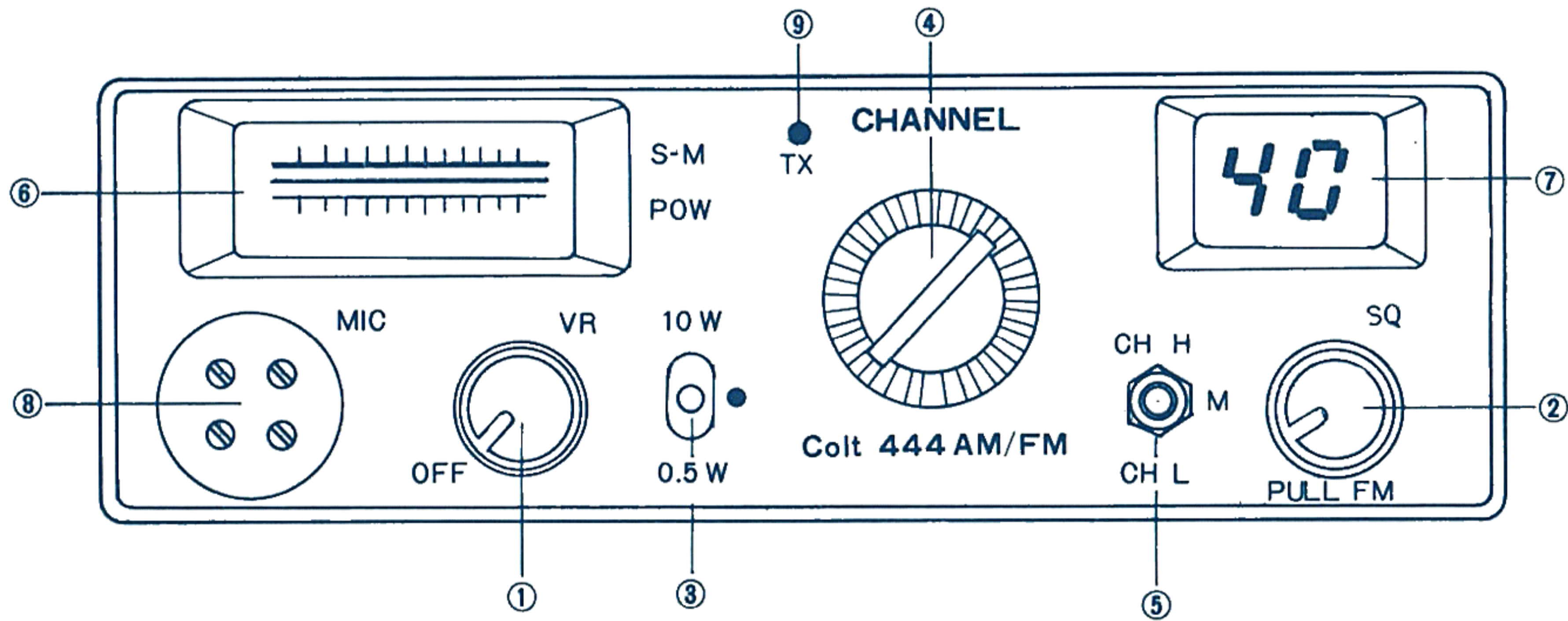
ANT FREQUENCY (MHZ)							
CH	Low Band	Mid Band	Hi Band	CH	Low Band	Mid Band	Hi Band
1	26.515	26.965	27.415	21	26.765	27.215	27.665
2	26.525	26.975	27.425	22	26.775	27.225	27.675
3	26.535	26.985	27.435	23	26.805	27.255	27.705
4	26.555	27.005	27.455	24	26.785	27.235	27.685
5	26.565	27.015	27.465	25	26.795	27.245	27.695
6	26.575	27.025	27.475	26	26.815	27.265	27.715
7	26.585	27.035	27.485	27	26.825	27.275	27.725
8	26.605	27.055	27.505	28	26.835	27.285	27.735
9	26.615	27.065	27.515	29	26.845	27.295	27.745
10	26.625	27.075	27.525	30	26.855	27.305	27.755
11	26.635	27.085	27.535	31	26.865	27.315	27.765
12	26.655	27.105	27.555	32	26.875	27.325	27.775
13	26.665	27.115	27.565	33	26.885	27.335	27.785
14	26.675	27.125	27.575	34	26.895	27.345	27.795
15	26.685	27.135	27.585	35	26.905	27.355	27.805
16	26.705	27.155	27.605	36	26.915	27.365	27.815
17	26.715	27.165	27.615	37	26.925	27.375	27.825
18	26.725	27.175	27.625	38	26.935	27.385	27.835
19	26.735	27.185	27.635	39	26.945	27.395	27.845
20	26.755	27.205	27.655	40	26.955	27.405	27.855



## SECTION 2

### OPERATING INSTRUCTIONS

#### CONTROLS, INDICATORS, CONNECTORS AND THEIR FUNCTIONS



#### ① Volume Control/Power ON-OFF Switch

This combination control supplies power to your CB transceiver and adjusts the receiver.

The switch should be turned clockwise from the "OFF" position. You will hear an audible "click"

To adjust the volume continue advancing the control in a clockwise position.

#### ② Squelch Control /AM/FM Switch:

In the clockwise position, the unit is squelched. And PULL. position, the unit is switched FM mode position.

#### ③ PWR 0.5W—<sup>(5W)</sup>—10W Switch:

This switch selects the desired RF power output. When you select 0.5W position, RF output power is approx. 0.5 watt. At CENTER(5W) position, the power is approx. 5.0 watt. At 10W position, you can get maximum power output, approx. 10 watt.



**④ CHANNEL SELECTOR Switch:**

This switch selects the desired channel for transmission and reception. All channels may be used for communications between stations operating under different license.

**⑤ HI/MID/LOW BAND Switch:**

This switch selects the desired frequency. At LOW position, frequency range is 26.515 MHz to 26.955 MHz. At MID position, frequency range is 26.965MHz to 27.405 MHz. At HI position, frequency range is 27.415 MHz to 27.855 MHz. please refer frequency chart in page 2.

**⑥ RF/S Meter:**

When receiving, Meter lamp lights in green and indicator vibrates by the receiving signal strength. When transmitting, Meter lamp light in red and the light and indicator changes sensitivity by the strength of voice.

**⑦ Channel Display:**

LED digital display indicates the channel.

**⑧ Microphone Jack:**

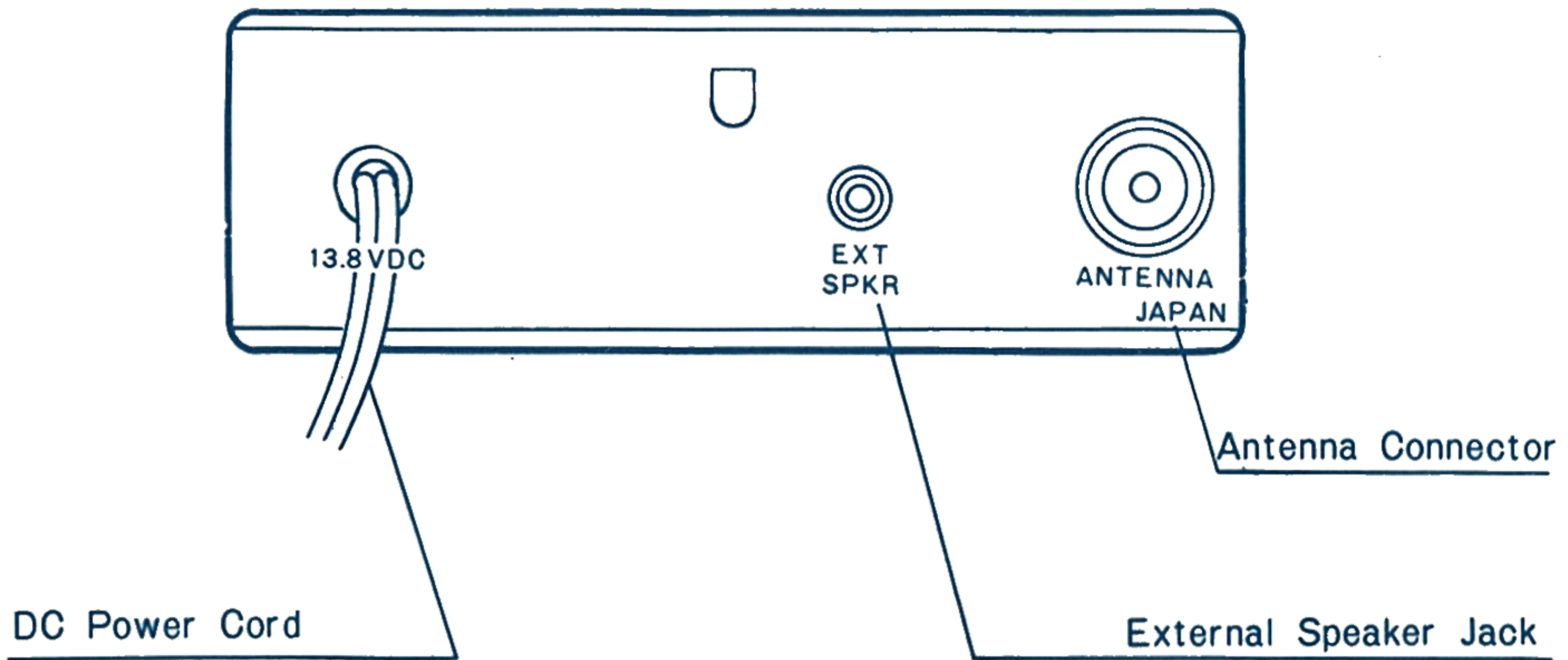
Plug in attached microphone to Mic-Jack and it's ready to transmit by Press-Talking style.

**⑨ TX Indicator**

Light emitting Diode (LED) indicates Red while transmitting.



## Rear View



## REAR PANEL OPERATION

- DC power cord:** Attach red (+) and black (-) cord to the power source. DC power is adjusted at 13.8 Volts.
- External SP jack:** It is suggested to use external speaker and headphone when communication takes place where excessive background noise is arisen. Speaker and headphone impedance must be 4-8 ohm.
- Antenna connector:** To use antenna, it must be adjusted in correct impedance at 50 ohms.



# CIRCUIT DIAGRAM

