

DIODE COMPLEMENT

D1, 2	FV-23	Receiver overload protector
D3	1S446	RF indicator rectifier
D4	1S446	Detector
D5	1S446	ANL
D6	1S446	S-meter rectifier
D7	FR-1P	Polarity reversal protector
D8	FR-1P	Switching gate
ZD1	FV-21 (Zener)	Receiver voltage regulator
ZD2	RD-11 (Zener)	VFO voltage regulator

CONTROL FUNCTIONS

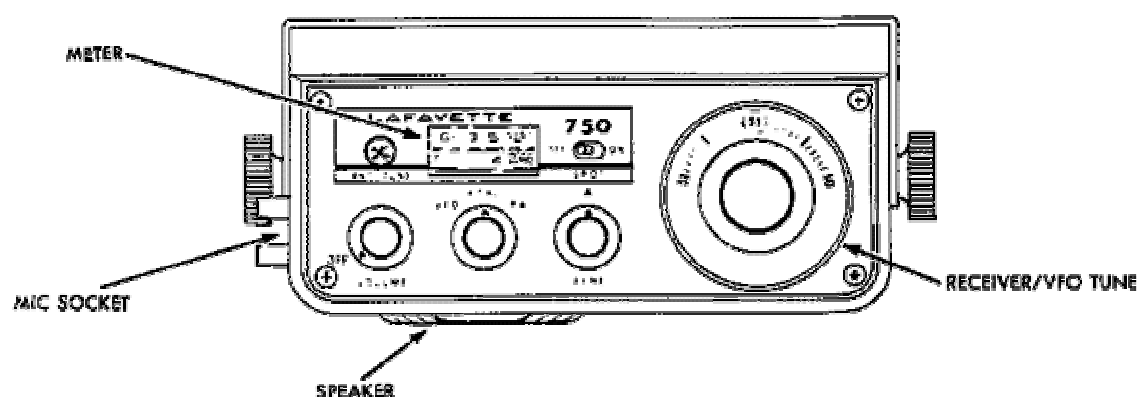


FIGURE 1. FRONT PANEL

ANT TUNE	Tunes transmitter pi-network to the antenna for maximum RF power output.
S-METER/RELATIVE POWER METER.....	<p>Receive Mode: Indicates strength of received signal on S-meter calibrated in S-units from 1 to 9 and 30 db above S9.</p> <p>Transmit Mode: Indicates relative power output of transmitter.</p>
SPOT Switch	When in the "on" position applies voltage to the transmitter oscillator. This causes generation of a strong unmodulated signal which may be tuned in on the receiver to determine the frequency of transmission.
VOLUME/OFF.....	Varies the audio output to the speaker. Also incorporates an "on-off" switch at the extreme counter-clockwise direction.
VFO/XTAL/PA.....	Selects either built-in VFO, Crystal or PA (Public Address) operation. When in the XTAL mode, a crystal must be inserted into the crystal socket. In the PA mode an external speaker must be connected to the PA jack on the rear panel.