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**Lafayette HE-29B Owner's Manual**

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# LAFAYETTE RADIO

## INSTRUCTION MANUAL

2-WAY  
CITIZENS BAND

“WALKIE  
TALKIE”

EARPHONE JACK

PUSH  
to  
TALK

MODEL  
**HE-29B**  
10-TRANSISTOR

VOLUME  
CONTROL

SPEAKER  
MICROPHONE

Your new Lafayette HE-29B-2 Way Citizen Band WALKIE TALKIE is a precision engineered, fully transistorized, portable radio transceiver designed for short distance communications in the 27 mc band. Offering ruggedness and dependable operation, the HE-29A may be operated without any license as prescribed in the FCC Rules and Regulations Part 15 or it may be used as an integral part of any Class D radio system. Featuring a 10 Transistor Superheterodyne circuit, optimum performance is obtained in a compact, hand held unit. As prescribed in part 15, input does not exceed 100 mw., and the antenna does not exceed 5 feet. **CHANGING BATTERY VOLTAGES, ANTENNA LENGTH OR IN ANY WAY TAMPERING WITH THIS UNIT WILL DISALLOW CLAIM TO ITS OPERATION UNDER PART 15.**

Operation is on Channel 10, 27.075 mcs.

### IT IS IDEAL FOR USE IN

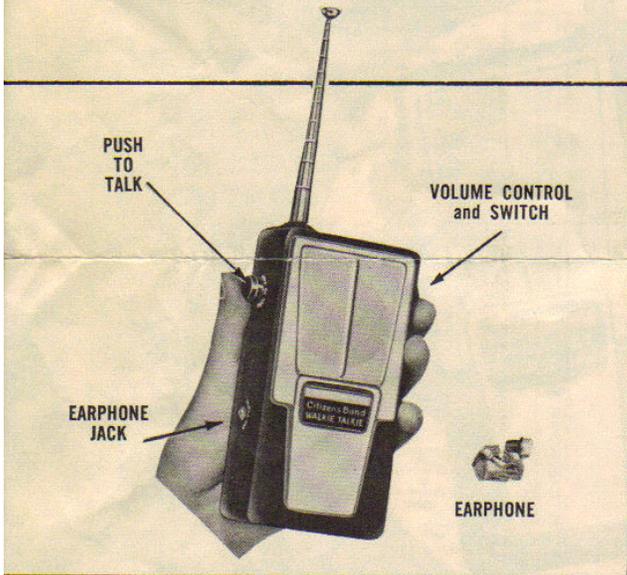
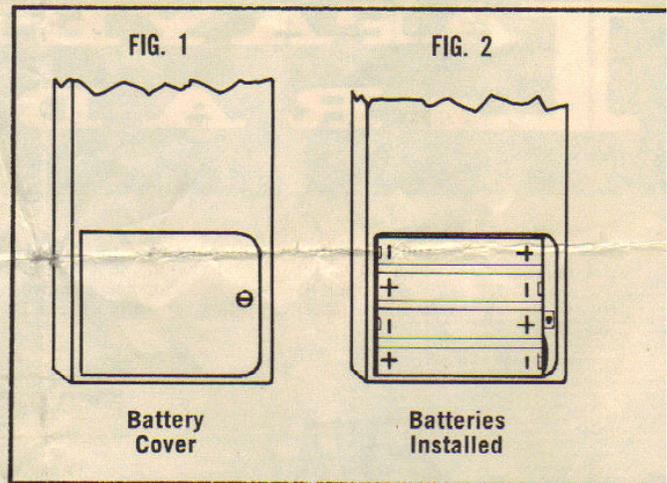
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**LAFAYETTE RADIO ELECTRONICS Corporation**  
**111 Jericho Turnpike SYOSSET, L.I., N.Y.**

# OPERATION

## BATTERY INSTALLATION

1. Remove the WALKIE TALKIE from the leather case. It is necessary to depress the press-to-talk switch (left hand side of unit) in order to remove the unit.
2. Remove the battery cover (figure 1) by opening the single screw at the bottom of the unit. A coin will suffice as a screwdriver. Remove the battery case, being careful not to break the battery leads.
3. Install the 8-1.5 volt batteries in the battery case at the bottom of the unit in the **manner prescribed**. Be sure to observe the indicated polarities.
4. Now replace the battery case and cover after which you can return the unit to its leather case.
5. **REMOVE BATTERIES IF UNIT IS NOT TO BE USED FOR LONG PERIODS OF TIME.** This will prevent battery leakage and resultant damage to the unit.



## USING YOUR WALKIE TALKIE

1. Extend the telescoping whip antenna to its full height (46").
2. Turn the unit on by turning the **VOLUME CONTROL AND SWITCH** on the right hand side of the cabinet until a click is heard. A rushing sound will be heard, indicating that the receiver section is operating.
3. **TO TALK** — Push the button on the left side of the unit in and hold it in this position as long as your are talking. Talk into the speaker which acts as a microphone in the transmit position.
4. **TO LISTEN** — Simply release the button controlling volume by means of the volume control located at the right of the unit.
5. The earphones supplied may be used for private listening by simply inserting them in the jack marked phones.
6. When not in use: Retract the telescoping antenna and turn the **VOLUME KNOB** until a click is heard.
7. Conversations can only be completed with one unit talking at a time. Do not begin to talk until the other station has finished.

## SPECIFICATIONS

**Transmitter** — Crystal Controlled 100 mw input power to RF Stage. Meet FCC Regulations Parts 15 and 19. **Receiver** — Superheterodyne. Crystal controlled. **Selectivity** —  $\pm 3\text{kc}$  @ 6 db. **Sensitivity** —  $1\mu\text{V}$  for 10 db S/N. **Number of Transistors** — 10 — 2SA80 (2), 2SA82 (1), 2SA81 (1), 2SA12D (1), 2SA12B (1), 2SB75 (1), 2SB77 (2), 2SA246 (1). **Size**:  $6\frac{3}{8}" \times 3\frac{3}{4}" \times 1\frac{5}{8}"$ . **Diode** — IN34A (1). **Thermister** — B-2B (1). **Batteries** — Replace with 8 Burgess Z cells. Eveready Type 915. RCA Type VSO 34. Lafayette BA-155. **Accessories**: Leather carrying case with strap, earphones. **Frequency** — Channel 10, 27.075 Megacycle. **Weight** — 18oz. (without case or accessories)

# RANGE

The Lafayette HE-29B WALKIE TALKIE has been factory adjusted to give optimum performance within the limits prescribed by the Federal Communications Commission. Its operating range varies with the surrounding conditions.

**ADVERSE CONDITIONS** — SEVERAL CITY BLOCKS

UP TO 3/10 of a mile (in or around buildings, with poor line-of-sight).

**TYPICAL CONDITIONS** — Up to 2 Miles (Line-of-sight conditions, with no intervening obstacles).

**FAVORABLE CONDITIONS** — UP TO 10 MILES (Over water, with minimum noise and interference — No intervening obstructions).

## USE OF THE HE-29B WITH LICENSED CLASS D NETWORKS

The Lafayette HE-29B complies with Federal Communications Commission Regulations, Part 19 and may be used as an integral part of such networks. Since your new "WALKIE TALKIE" is crystal-controlled on Channel 10 (27.075 mcs), it is imperative that base station units operate on this frequency also. Lafayette stocks crystals for most Citizen Band Transceivers and will be glad to fill your order.

# PARTS LIST

### TRANSISTORS AND DIODES

Designation	Part No.	Type	Designation	Part No.	Type
Q1	29B-500	2SA80	Q7	29B-506	2SB77
Q2	29B-501	2SA82	Q8	29B-506	2SA77
Q3	29B-502	2SA81	Q9	29B-500	2SA80
Q4	29B-503	2SA12D	Q10	29B-507	2SA246
Q5	29B-504	2SA12B	D1	29B-508	1N34A Diode
Q6	29B-505	2SB75	TH1	29B-509	B-2B Thermister

### RESISTORS

Designation	Part No.	Type	Designation	Part No.	Type
R1	29B-510	1K 1/4 watt 10%	R19	29B-516	56K 1/4 watt 10%
R2	29B-511	68K 1/4 watt 10%	R20	29B-510	1K 1/4 watt 10%
R3	29B-512	5.6K 1/4 watt 10%	R21	29B-518	220 1/4 watt 10%
R4	29B-513	470 1/4 watt 10%	R22	29B-519	100 1/4 watt 10%
R5	29B-510	1K 1/4 watt 10%	R23	29B-518	220 1/4 watt 10%
R6	29B-511	68K 1/4 watt 10%	R24	29B-512	5.6K 1/4 watt 10%
R7	29B-514	3.3K 1/4 watt 10%	R25	29B-520	22 1/4 watt 10%
R8	29B-513	470 1/4 watt 10%	R26	29B-516	56K 1/4 watt 10%
R9	29B-515	100K 1/4 watt 10%	R27	29B-514	3.3K 1/4 watt 10%
R10	29B-510	1K 1/4 watt 10%	R28	29B-510	1K 1/4 watt 10%
R11	29B-513	470 1/4 watt 10%	R29	29B-513	470 1/4 watt 10%
R12	29B-516	56 1/4 watt 10%	R30	29B-541	47K 1/4 watt 10%
R13	29B-517	6.8K 1/4 watt 10%	R31	29B-542	10K 1/4 watt 10%
R14	29B-510	1K 1/4 watt 10%	R32	29B-513	470 1/4 watt 10%
R15	29B-513	470 1/4 watt 10%	R33	29B-519	100 1/4 watt 10%
R16	29B-514	3.3K 1/4 watt 10%	R34	29B-519	100 1/4 watt 10%
R17	29B-513	470 1/4 watt 10%	VR1	29B-543	5K Variable Resistor
R18	29B-517	6.8K 1/4 watt 10%			

### CAPACITORS

Designation	Part No.	Type	Designation	Part No.	Type
C1	29B-521	20 mmfd disc	C19	29B-526	3 mfd, 3V, electr. (or 6V)
C2	29B-522	0.01 mfd disc	C20	29B-525	10 mfd, 3V, electr. (or 6V)
C3	29B-522	0.01 mfd disc	C21	29B-527	50 mfd, 15V, electr.
C4	29B-521	20 mmfd disc	C22	29B-528	0.005 mfd disc
C5	29B-522	0.01 mfd disc	C23	29B-524	0.04 mfd disc
C6	29B-522	0.01 mfd disc	C24	29B-527	50 mfd, 15V, electr.
C7	29B-523	0.002 mfd disc	C25	29B-544	0.1 mfd disc or rectangular
C8	29B-524	0.04 mfd disc	C26	29B-522	0.01 mfd disc
C9	29B-524	0.04 mfd disc	C27	29B-522	0.01 mfd disc
C10	29B-524	0.04 mfd disc	C28	29B-521	20 mmfd disc
C11	29B-524	0.04 mfd disc	C29	29B-522	0.01 mfd disc
C12	29B-525	10 mfd, 3V, electr. (or 6V)	C30	29B-521	20 mmfd disc
C13	29B-524	0.04 mfd disc	C31	29B-522	0.01 mfd disc
C14	29B-524	0.04 mfd disc	C32	29B-522	0.01 mfd disc
C15	29B-524	0.04 mfd disc	C33	29B-529	10 mmfd disc
C16	29B-524	0.04 mfd disc	C34	29B-530	10 mfd, 15V, electr.
C17	29B-522	0.01 mfd disc	C35	29B-531	1.5 mmfd disc
C18	29B-522	0.01 mfd disc	C36	29B-532	5 mmfd disc

### TRANSFORMERS

Designation	Part No.	Type	Designation	Part No.	Type
T1	MS-776	IF Transformer	T6	TR-119	Output
T2	MS-777	IF Transformer	T7	HP-70	Trans. Output
T3	MS-778	IF Transformer	L1A-1B	29B-535	Antenna Coil
T4	29B-533	RCVR OSC. Trans.	L1B-2B	29B-536	RF. Amp. Coil
T5	TR-118	Interstage	L2	HP-69	Trans. Osc. Coil
			L3	HP-67	Antenna Loading Coil

### MISCELLANEOUS

Designation	Part No.	Type	Part No.	Type
LS1	29B-537	Loudspeaker Microphone	MS-902	Battery Case
S1	SW-102	Push to Talk Switch	F-703A	Replacement Antenna
S2	29B-543	ON-OFF Switch	29B-540	Repl. Leather Case