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Lafayette HE-82 Owner's Manual

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LAFAYETTE RADIO

INSTRUCTION MANUAL

2-WAY CITIZENS BAND "WALKIE TALKIE"

PUSH
to
TALK

MODEL
HE-82

4-TRANSISTOR

VOLUME
CONTROL

AC JACK

SPEAKER
MICROPHONE

Your New Lafayette **HE-82** - 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-82** 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 4 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

- CONSTRUCTION INDUSTRIES • ATHLETIC EVENTS • PLANT SECURITY • FARMING • CIVIL DEFENSE • LIFE GUARDS • WAREHOUSE INVENTORIES • BOATING • FIRE AND POLICE DEPARTMENTS • HUNTERS

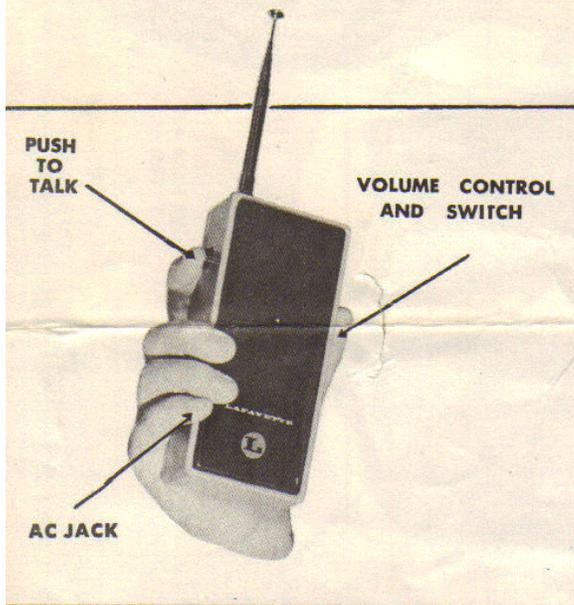
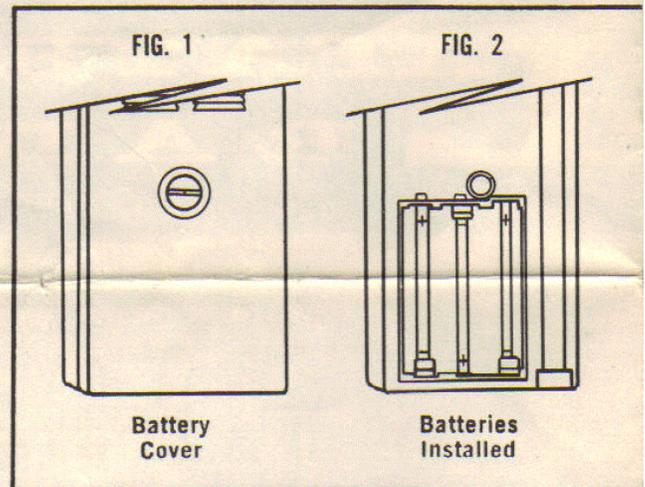
LAFAYETTE Radio Electronics Corporation

111 JERICHO TURNPIKE · SYOSSET, L.I., NEW YORK

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 back cover. A coin will suffice as a screwdriver. Remove the battery case, being careful not to break the battery leads.
3. Install the 6 - 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 back 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 (40.5").
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 you 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. When not in use: Retract the telescoping antenna and turn the **VOLUME KNOB** until a click is heard.
6. Conversations can only be completed with one unit talking at a time. Do not begin to talk until the other station has finished.
7. Operates on 117 V AC power source by connecting the AC Adaptor (available as an accessory Lafayette Model HE-84) with AC Jack.

SPECIFICATIONS

Transmitter — Crystal Controlled 85 mw input power to RF Stage. Meet FCC Regulations Parts 15 and 19. **Receiver** — Superheterodyne. Crystal controlled. **Selectivity** — ± 3.5 kc @ 6 db. **Sensitivity** — $10\mu\text{V}$ for 10 db S/N. **Number of Transistors** — 4 — 2SA 279 (or 2SA246 or 2SA344) $\times 1$, 2SA102 (or 2SA12 or 2SA103) $\times 1$, 2SB171 (or 2SB75 or 2SB172 or 2SB77) $\times 1$, 2SB172 (or 2SB77) $\times 1$. **Diode** — MA80 (or IN34A or OA70) $\times 1$. **Size** — $5\text{-}5/8" \times 2\text{-}3/4" \times 1\text{-}5/8"$. **Batteries** — Replace with 6 Burgess Z cells. Eveready Type 915, RCA Type VSO 34, Lafayette BA-155. **Accessories** : Leather carrying case with strap. **Frequency** — Channel 10, 27.075 Megacycle. **Weight** — 18oz. (without case or accessories)

RANGE

The Lafayette HE-82 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 1/10 of a mile (in or around buildings, with poor line-of-sight).

TYPICAL CONDITIONS — Up to 1/2~3/4 Miles (Line-of-sight conditions, with no intervening obstacles).

USE OF THE HE-82 WITH LICENSED CLASS D NETWORKS

The Lafayette HE-82 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 |
|-------------|----------|--------------------------------------|
| Q1 | 66-501 | 2SA279 (or 2SA246 or 2SA344) |
| Q2 | 66-502 | 2SA102 (or 2SA12 or 2SA103) |
| Q3 | 66-503 | 2SB171 (or 2SB75 or 2SB172 or 2SB77) |
| Q4 | 66-504 | 2SB172 (or 2SB77) |
| D1 | 66-505 | MA80 Diode (or IN34A or OA70) |

RESISTORS

| Designation | Part No. | Type | Designation | Part No. | Type |
|-------------|----------|--------------------------------------|-------------|----------|---|
| R1 | 66-505 | 47K Ω $\frac{1}{4}$ Watt 10% | R11 | 66-515 | 22K Ω $\frac{1}{4}$ Watt 10% |
| R2 | 66-506 | 5.6K Ω $\frac{1}{4}$ Watt 10% | R12 | 66-516 | 1K Ω $\frac{1}{4}$ Watt 10% |
| R3 | 66-507 | 220 Ω $\frac{1}{4}$ Watt 10% | R13 | 66-517 | 22K Ω $\frac{1}{4}$ Watt 10% |
| R4 | 66-508 | 100 Ω $\frac{1}{4}$ Watt 10% | R14 | 66-518 | 4K Ω or 3.9K Ω $\frac{1}{4}$ Watt 10% |
| R5 | 66-509 | 3.3K Ω $\frac{1}{4}$ Watt 10% | R15 | 66-519 | 100 Ω $\frac{1}{4}$ Watt 10% |
| R6 | 66-510 | 33K Ω $\frac{1}{4}$ Watt 10% | R16 | 66-520 | 100 Ω $\frac{1}{4}$ Watt 10% |
| R7 | 66-511 | 33K Ω $\frac{1}{4}$ Watt 10% | R17 | 66-521 | 15K Ω $\frac{1}{4}$ Watt 10% |
| R8 | 66-512 | 2K Ω Variable Resistor | R18 | 66-522 | 3.3K Ω $\frac{1}{4}$ Watt 10% |
| R9 | 66-513 | 5K Ω Variable Resistor | R19 | 66-523 | 470 Ω $\frac{1}{4}$ Watt 10% |
| R10 | 66-514 | 5.6K Ω $\frac{1}{4}$ Watt 10% | | | |

CAPACITORS

| Designation | Part No. | Type | Designation | Part No. | Type |
|-------------|----------|---------------------------|-------------|----------|---------------------------------|
| C1 | 66-524 | 20 mmfd disc | C9 | 66-532 | 10 mfd electr. 3V (or 10V) |
| C2 | 66-525 | 0.01 mfd disc | C10 | 66-533 | 50 mfd electr. 3V (or 10V) |
| C3 | 66-526 | 0.01 mfd disc | C11 | 66-534 | 50 mfd electr. 10V |
| C4 | 66-527 | 20 mmfd disc | C12 | 66-535 | 50 mfd electr. 10V |
| C5 | 66-528 | 0.04 mfd disc | C13 | 66-536 | 50 mfd electr. 3V (or 10V) |
| C6 | 66-529 | 10mfd electr. 3V (or 10V) | C14 | 66-537 | 0.1 or 0.2 mfd disc or cylinder |
| C7 | 66-530 | 0.04 mfd disc | C15 | 66-538 | 0.01 mfd disc |
| C8 | 66-531 | 0.01 mfd disc | C16 | 66-539 | 0.001 mfd disc |

MISCELLANEOUS

| Designation | Part No. | Type | Designation | Part No. | Type |
|-------------|----------|--------------------------|-------------|----------|------------------------|
| 11LA | 66-540 | RCVR. Antenna Coil | LS1 | 298-537 | Speaker and Microphone |
| 11LC | 66-541 | RCVR. OSC. Coil | ANT1 | 66-547 | Whip Antenna |
| 11LD | 66-542 | Trans OSC. and Tank Coil | X1 | 66-548 | Trans. OSC. Xtal |
| T1 | MS-776 | IF Transformer | X2 | 66-549 | RCVR. Local OSC. Xtal |
| T2 | MS-778 | IF Transformer | BH | 66-550 | Battery Case |
| BTB | 66-543 | Input AF Transformer | BC | 66-551 | Battery Connector |
| BTB | 66-544 | Output AF Transformer | | | (006P Type) |
| S1, 1-6 | 66-545 | Push To Talk Switch | AC J1 | 66-552 | AC Jack |
| S2 | 66-546 | ON-OFF Switch | | | |