

## GENERAL DESCRIPTION

### INTRODUCTION

The Lafayette Model HA-460 is a compact, self-contained 6-meter radio station. Its compact size, ease of mounting, and universal power supply make this unit ideally suitable for operation as a 12 volt DC mobile unit or fixed station operation from a 117 volt, 60 cycle AC power source. The HA-460 covers the most popular lower portion of the 6 meter band (50-52 Mc). It is supplied complete with a push-to-talk microphone, power cables for AC and DC operation, and a mobile mounting bracket.

### NOTE

An FCC amateur license is required by anyone operating this equipment.

### FEATURES

Built-in solid-state universal power supply. Operates from 117 volts AC or 12 volts DC.  
Crystal-controlled or VFO transmitter operation.

Built-in TVI filter.

Spot switch.

S-meter/Relative power indicator.

6CW4 Low-Noise RF amplifier; Crystal-controlled dual conversion IF system.

Built-in speaker.

### TUBE AND TRANSISTOR COMPLEMENT

V1	RF amplifier
V2	1st mixer and local oscillator 1
V3	2nd mixer and local oscillator 2
V4	1st IF amplifier and microphone amplifier
V5	2nd IF amplifier
V6	2nd preamplifier and audio power amplifier/modulator
V7	Phase inverter and audio power amplifier/modulator
V8	Frequency doubler driver and frequency doubler/tripler
V9	RF power amplifier
V10	VFO/Crystal oscillator and buffer amplifier
2SB425 (4)	D.C. power supply transistor

### DIODE COMPLEMENT

1N60	Audio detector
1S72	noise limiter
1S93/10D6(4)	Rectifier, PEAK CLIPPER
1S34	RF Meter rectifier
5F10	Power supply polarity reversal protection
5GF/10D4	S METEF: RECTIFIER