

## INTRODUCTION

The Heathkit Model SB-300 SSB Receiver is capable of receiving SSB, AM, and CW signals on all amateur bands from 3.5 to 30 megacycles. A separate crystal filter can be obtained and is switch-selected from the front panel for each of these modes of operation to assure optimum selectivity and performance. In the absence of the optional filters, AM stations are received using the exalted carrier method, and CW may be received in either SSB position.

The preassembled-prealigned linear master oscillator (LMO) and crystal-controlled heter-

odyne oscillators assure highly accurate and stable operation. The use of circuit boards and a wiring harness provide clean chassis layout.

Other features of this Receiver are special antenna and power connections for VHF converters, a 100 kc crystal calibrator, provision for transceiver operation with a compatible transmitter, and a smooth, virtually backlash free dial tuning mechanism. The transformer-operated, silicon diode power supply is a long-life, low-heat power source.

BAND	HETERODYNE OSCILLATOR FREQUENCY (CRYSTAL FIXED)	RECEIVED SIGNAL FREQUENCY	PASSBAND SIGNAL FREQUENCY (BETWEEN 8.395 AND 8.895)	LMO MIXER OUTPUT CRYSTAL FILTERS AND IF (FIXED)	LMO (BETWEEN 5 AND 5.5 MC
3.5 to 4	12.395	3.895	8.5	3.395	5.105
7 to 7.5	15.895	7.2	8.695	3.395	5.3
14 to 14.5	22.895	14.2	8.695	3.395	5.3
21 to 21.5	29.895	21.3	8.595	3.395	5.2
28 to 28.5	36.895	28.1	8.795	3.395	5.4
28.5 to 29	37.395	28.7	8.695	3.395	5.3
29 to 29.5	37.895	29.2	8.695	3.395	5.3
29.5 to 30	38.395	29.6	8.795	3.395	5.4

FREQUENCIES IN MEGACYCLES

Figure 1