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GENERAL SPECIFICATIONS

BAND COVERAGE: 20, 40, 80 and 160 meters.

FREQUENCY RANGES: 1800-2000, 3500-3850, 3700-4050, 7000-7350, 14,000-14,350 kc.

FREQUENCY CONTROL: highly stable VFO common to both receive and transmit modes. Tuning dial calibrated in 5 kc increments with easy interpolation to 1kc. Tuning rate: 15 kc per revolution of the tuning knob.

EXTERNAL FREQUENCY CONTROL: Rear socket provides for plug-in of external VFO or crystal oscillator accessory for separate control of transmit and receive frequencies or for networked MARS operation.

CIRCUIT DESIGN: All solid state, 4 I.C.s, 18 transistors, 32 diodes. Single conversion, 5520 kc I.F.

MODES OF OPERATION: SSB: lower sideband on 40, 80, and 160 meters, upper sideband on 20 meters with SB selector switch in NORM. position. Opposite with switch in OFF. Position. CW: offset frequency in transmit mode.

MODULAR CONSTRUCTION: Includes plug-in circuit boards for ease of maintenance.

PLUG-IN DESIGN: Transceiver plugs into deluxe mobile bracket, or into the AC power supply console, making transfer or removal a simple operation. All connectors are standard: SO-239 antenna jack, ¼ in. phone jacks for Mic., CW key, external speaker or headphones, and linear amplifier control.

POWER SUPPLY REQUIREMENTS: operates directly from 12 to 14 volt D.C. source with negative ground, (standard automotive system). Current drain is 300 to 500 ma. in receive mode, 16 amps peak in transmit mode. Atlas models AR-117 and AR-230 power supply consoles are available for AC operation.

FRONT CONTROLS: Tuning Dial, Dial Set, Function Switch, Band Switch, A.F. Gain, R.F. Gain, Mic. Gain, Sideband Selector, Calibrator On-Off, Dial Light Dimmer.

FINISH: black vinyl covered steel cabinet, anodized aluminum panel.

RECEIVER SPECIFICATIONS

CIRCUIT DESIGN: Front end design provides exceptional immunity to overload and cross modulation, matching or out performing the best vacuum tube designs. Signals are converted directly to the 5520 kc I.F. without preamplification. Converter and product detector are double balanced diode rings. I.C.s are employed in the I.F. and A.F. stages.

SENSITIVITY: Requires less than 0.3 microvolts for a 10 db signal-plus-noise to noise ratio. (typically 0.2 microvolts)

SELECTIVITY: Crystal ladder filter, 8 poles. Bandwidths: 2.7 kc @ 6 db, 4.3 kc @ 60 db, 9.2 kc @ 120 db ± Ultimate rejection more than 120 db ± Shape factor: 1.6

IMAGE REJECTION: More than 60 db.

INTERNAL SPURIOUS: Less than equivalent 1 microvolt signal.

AGC CHARACTERISTICS: Audio output constant within 4 db with signal variation from 5 microvolts to more than 3 volts.

OVERALL GAIN: Requires less than 1 microvolt signal for 0.5 watts audio output. (CW carrier, 1000 cycle heterodyne)

AUDIO FIDELITY: 300 to 3000 cycles, plus or minus 3 db.

AUDIO POWER: 2 watts to a 3 ohm speaker with less than 10% distortion.

INTERNAL SPEAKER: 3 inch, 3 ohm, 0.68 oz. Magnet. Rear jack permits plug-in of external speaker, or high impedance headphones. When transceiver is plugged in to the AC power supply console, internal speaker is disconnected automatically, and front facing speaker on console becomes operative.

METER: Reads 5 units from 1 to 9, plus 10 to 50 db.

CALIBRATOR: Provides 100 kc check points for accurate dial setting.

DIMENSIONS: 9 ½ in. (24.1 cm) wide; 3 ½ in. (8.9 cm) high, 9 ½ in. (24.1 cm) deep, overall. Weight: 7 ½ lbs. (3.4 kg) net, 9 lbs (4.1 kg) shipping weight.

Atlas 180 Service Manual

SA Adler



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