

WN9MCW "NOVICE – CLASS STATION" – 1972



HR-10 Ham-Band Receiver



- **Amateur band coverage only (80 through 10 meters) for high stability & tuning accuracy**
- **Tunes SSB, AM, CW**
- **Large, slide-rule tuning dial—over 6" of bandspread**
- **Tunable RF stage for extra sensitivity**
- **Prebuilt, preset coil/bandswitch assembly**
- **Lattice-type crystal filter for high selectivity**

This handsomely-styled amateur receiver is a perfect match for the DX-60 Transmitter, providing complete high-performance station receiver facilities at low cost!

The HR-10 is designed for amateur band coverage only on 80 through 10 meters, for maximum accuracy and stability. Each band is separately calibrated on a large, easy-to-read slide-rule dial. The tuning dial is illuminated and provides over 6" of bandspread for precise frequency settings. A carefully-designed diode detector, plus BFO, tunes AM or CW and SSB signals. The 7-tube superheterodyne circuit features an RF stage for added sensitivity and employs a half-lattice crystal filter for excellent selectivity characteristics...a necessity with today's crowded band conditions. Two IF amplifiers operating at 1680 kc provide good image rejection. Other features include: "S" meter to aid in tuning and determining relative strength of received signals; a 3-gang tuning capacitor to assure proper tracking of all circuits rather than "Broad Banding"; a front panel dial calibration control and provision for a plug-in 100 kc crystal calibrator to provide accurate dial calibration at any 100 kc point across the band. Other panel controls consist of: antenna trimmer, bandswitch, tuning, BFO tuning, RF gain, AF gain w/AC on-off switch, xtal. calibration on/off, STBY/RCV, BFO on/off, AVC on/off, and automatic noise limiter on/off. An accessory socket is provided on the rear chassis apron for receiver muting, etc., and a speaker jack is provided for use with any 8 ohm PM speaker. 21 lbs.



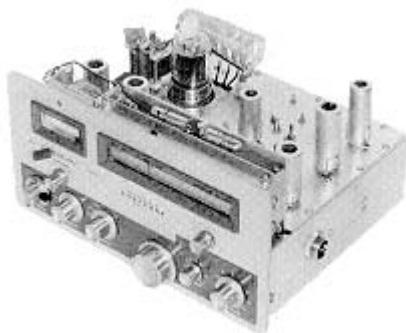
MT-1 "Cheyenne" Mobile Ham Transmitter



- 90 watt input on phone or CW
- 6146 final amplifier—pi network output
- Special design push-to-talk microphone
- Spotting switch for off-the-air tuning
- Rugged shock-proof construction—easy to build

Power packed performance at low cost!

All the fun and excitement of mobile amateur operations are yours with the "Cheyenne" transmitter. Team it with its matching counterpart, the "Comanche" receiver...they make an ideal pair for top mobile communications at the lowest cost anywhere! The high quality components, sturdy chassis construction, and many design features assure long life, dependable performance, and convenient operation under rugged mobile use. The "Cheyenne" provides up to 90 watts input on phone or CW and covers 80 through 10 meters.

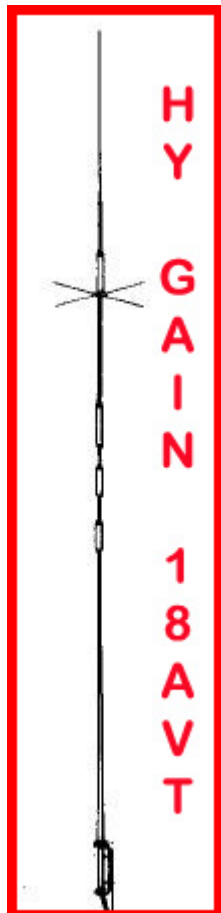


High quality and rugged design assures long life and dependable performance. Note the 6146 final amplifier tube and husky final tank coil used.

It features a built-in VFO, controlled carrier modulator, four RF stages, 6146 final amplifier, and pi-network (coaxial) output coupling. A spotting switch is provided to allow tuning the transmitter "off-the-air" and a specially designed ceramic element microphone with push-to-talk switch assures properly shaped audio response for effective modulation with plenty of "punch." All power necessary for mobile operation is furnished by the Heathkit HP-10 mobile power supply. Simple conversion to fixed station operation is easily accomplished by using the Heathkit HP-20 AC power supply.

Styling of both the "Comanche" and "Cheyenne" features a one-piece die-cast front panel with raised meter, tuning dial and control panel escutcheons, and die-cast knobs. Color styled in two-tone gray and gray-green.

Output coupling: Pi network (coaxial). **Band coverage:** 80, 40, 20, 15, 10 meters. **Panel controls:** Meter switch, spotting switch, final tuning, drive adjust, bandswitch, VFO tuning, audio (gain), loading, function switch. **Tube complement:** 12AX7, 6DE7, 6AU6, 6CL6, 5763, OA2. **Power requirements:** 500-600 V DC @ 100 ma; 6.3 V @ 4.7 amps or 12.6V @ 2.35 amps AC/DC. **Dimensions:** 6½" H x 12 1/8" W x 9 15/16" D.



Mechanical

Overall height 21' nominal (6.401 m)
 Mast accepts up to 1½" (4.1 cm)
 Wind survival 80 mph (129 kmph)

Electrical

Frequency 80-, 40-, 20-, 15-, and 10-meter amateur bands
 Input impedance 52 ohms
 SWR at resonance less than 2:1
 Power capabilities 2 kW PEP*
 Lightning protection DC ground
 Input connector SO-239

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HEATHKIT "CHEYENNE" MT-1



HEATHKIT "HR-10B"



BROWN BROTHERS STRAIGHT CW KEY



KOSS "K-6" HEADPHONES