Repair Parts for older Remtron remotes/receivers (RCT4 series)

Transmitter case (does not include aluminum front plate - must old one or make new; PacTec HP-9VB

Receiver case: Hammond 1591-DGY

Receiver and transmitter antenna connector: 83-1R (at RF Connection use SO-239/IMP)

Transmitter case screws (supplied with new case): 2-56 bolts ¾ inches long

Transmitter Switch: NKK 2018BB3W01 – Do not subsitute

Transmitter battery clip: Keystone 233K or 234

Transmitter antenna parts:

Connector: PL-259, or 83-1SP or at RF Connection: PL-259/TSS

Antenna: LA-101 (Manufacturer– Listen Technologies: https://www.listentech.com/shop/product/helical-top-mounted-antenna-72-mhz/) Sold by other vendors on net. Bulk quantities available from Talley Corp, minimum quantity required.

2 bolts: 10-32 2", 4-40 1 ½ "

Spacer, Nylon ⅜" x ¾ " long

Other notes:

Older units operated on 49.830 49.845, or 49.895 Mhz. Remote frequency must match receiver frequency,

All others in the series operate on 72.4 Mhz.

Chip ED-11 found in both receiver and transmitter generate or decode digital signal. It modulates crystal controller oscillator signal which is amplified and transmitted. Code is set by metal strip or switches located next to ED-11. An oscillator circuit associated with the ED-11 runs at 11-12 Hz, that frequency set by resistor and capacitor.

Same basic ED-11 circuit exists in receiver and code is set in same way.

Pot on board controls exact transmitted frequency.

Last three of four coils in circuit need to be tuned to maximum output. Need to use plastic or other non-metal tool to avoid detuning when inserted into slot on top of coil.

If no field strength meter is available, suggest getting a USB dongle unit from nooelec.com, https://www.nooelec.com/store/sdr/sdr-receivers/nesdr-mini.html. Cost is low and when combined with SDR# software and a computer, gives a visual and output

of RF input at any frequency from about 40 MHz to 1000+ MHz. Software at
https://airspy.com/download/

It takes some work to get it going, but it is very useful. It is also useful at displaying output of Pump Bosses operating the range from 902-928 Mhz. Also can help tune transmitter to exact frequency.