

iNav-Boss-R433-6B1W Operational Description

The Remote transmitter is a low powered, hand held unit for remote controlling the iPod RF receiver setup feature. See the function descriptions in attached. The transmitter is powered by a 6VDC battery. It is designed to operate on a single fixed frequency at 433.92MHz ± 100 kHz. See the attached block diagram and schematic.

There is one button trigger the integrated circuit (U1) which produces the digital control signals and will modulate the carrier signal (ASK). The carrier signal is generated by SAW Resonator/amplifier circuit comprised of capacitor (C5, C6, C7, C8,C9,C10,C12) and inductor (L1,L2) and npn transmitter (Q1). The modulated output of the RF stage is coupled to the Wire antenna. The Antenna is attached on Wire antenna permanently around 53.5mm.

The transmitter is manually operated by the buttons pushed momentarily within 0.2 second and will automatically deactivate send signal to receiver. This feature is incorporated by the U1 internally.

All tuning and verification are performed by the manufacture and there are no adjustments can be made by user.