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## **AT1500HB RF Network**

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# **Technical Manual**

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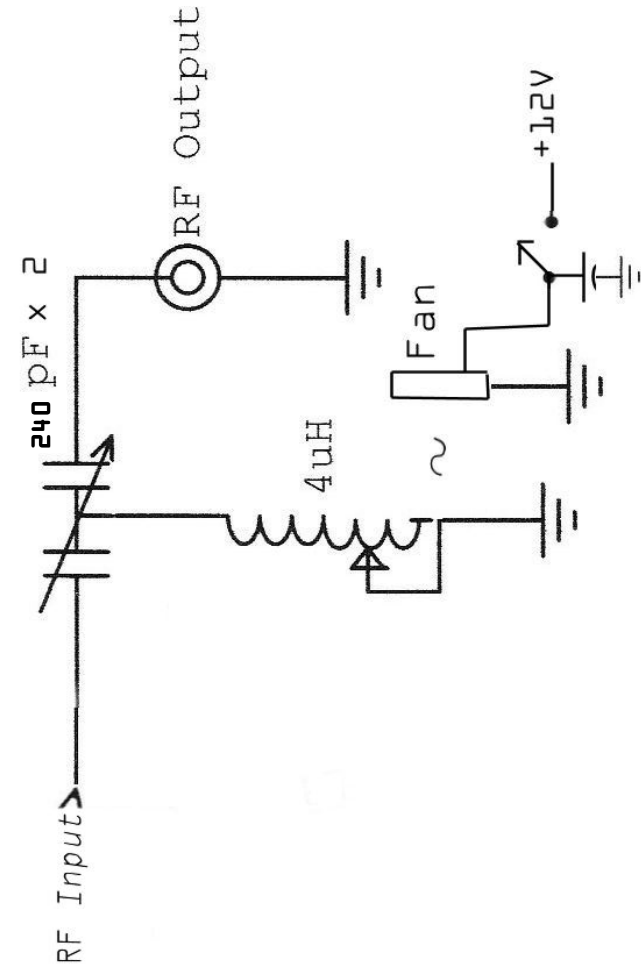


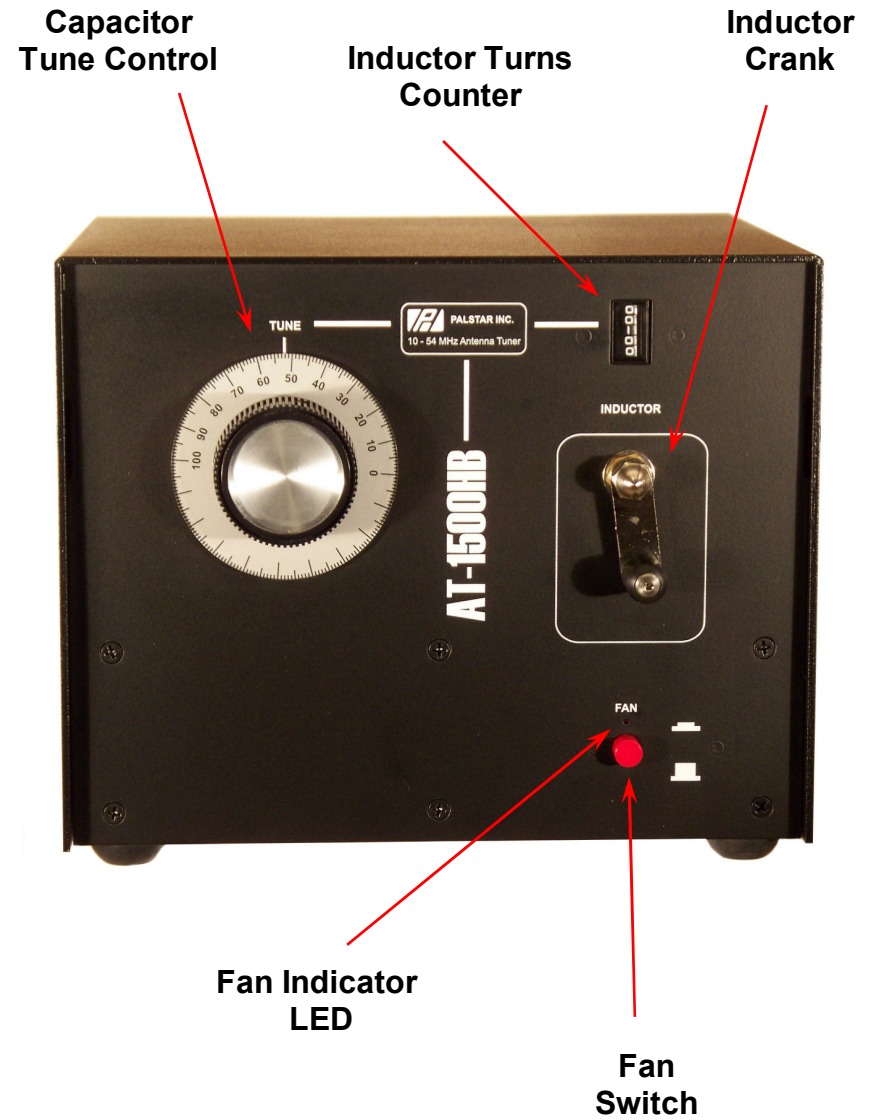
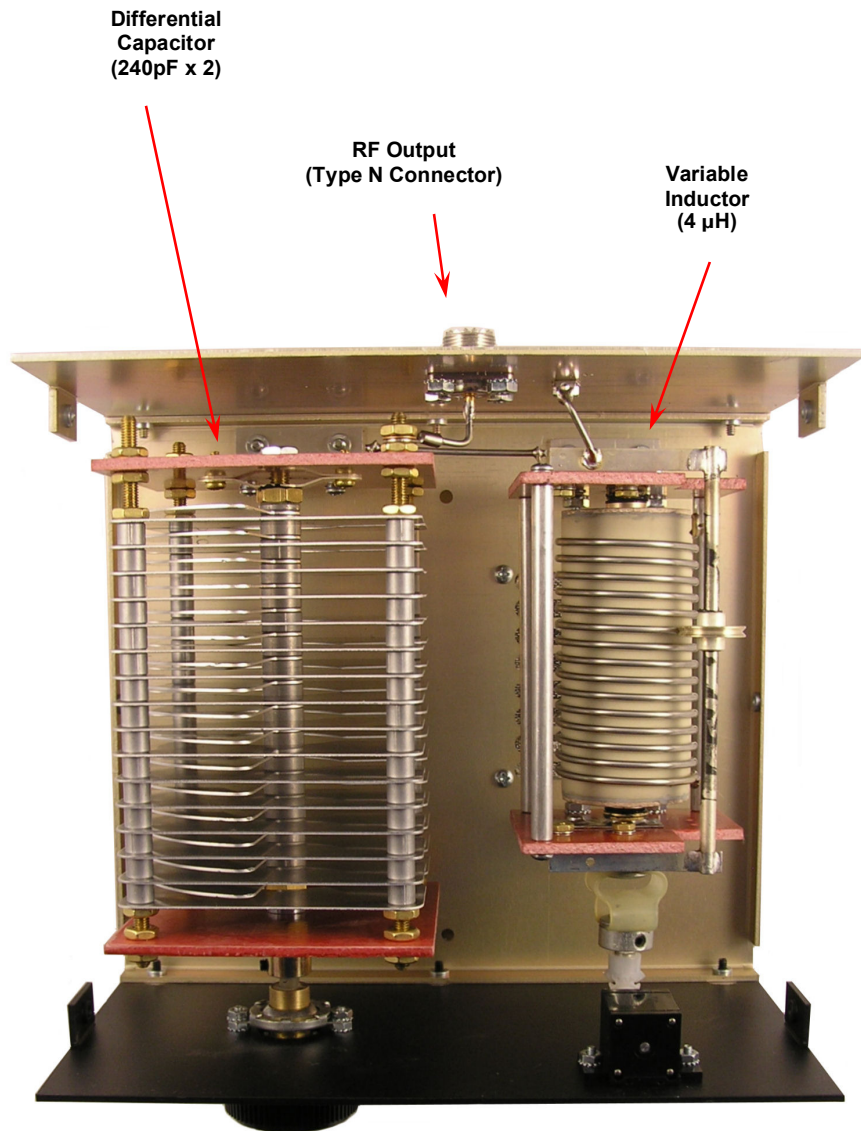
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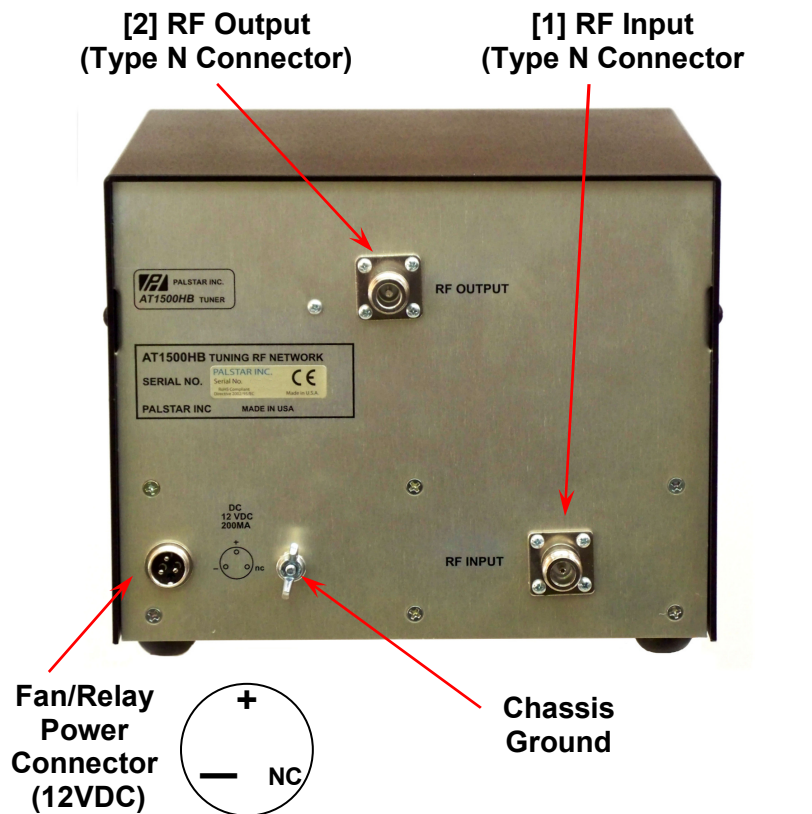
**AT1500HB Network Specifications:**

- Network Configuration: High-pass network with shunt variable inductor ( $4\ \mu\text{H}$ ) and differential capacitor ( $240\ \text{pF} \times 2$ ), Fan cooled.
- Frequency Range: 6Mhz to 54Mhz
- RF Power Rating: Up to 500 Watts single tone carrier, 100% duty cycle with fan on
- Connectors: SO239 or Optional N type
- Case: .090" Iridite-treated aluminum; powder coated front panel and top cover
- DC Power (for cooling fan and relays): 12VDC @ 200ma; standard 3pin Amphenol type connector
- Dimensions: 9.25" W x 8" H x 9.5" D





## 4 Rear Panel Connectors



1. Connect the output of the RF source to the Input connector [1] of the AT1500HB.
2. Connect the RF Output connector [2] of the AT1500HB to the destination device.
3. If additional grounding is needed, connect it to the Chassis Ground post.
4. Connect the 12VDC connector to the Fan/Relay Power jack.
5. Power limit is 500 Watts at 100% duty Cycle with the fan ON.
6. When 50 on the TUNE control is vertical, the capacitance is equal on the input and output sides.

## Operation 5

7. Zero (0) on the inductor turns counter is maximum inductance ( $4 \mu\text{H}$ ); approximately 148 is minimum inductance.

**CAUTION:** When approaching the end stops of the variable inductor, (readings of Zero or 148) **SLOW DOWN**. Running the roller wheel too hard into the mechanical end stops on either end of the coil can damage it.