



## MINI 2 ELEMENT ANTENNA

### Data:

- The **MINI 2 ELEMENT** directional antenna is small, compact and easy to use.
- At half the size of a 3-element antenna, the MINI 2 gives a good direction.
- This is versatile antenna. When attached to a smaller receiver it allows the 2 elements to fold under the receiver for storage. The user can also easily remove the antenna from the receiver in a few seconds and switch to a bigger 3-element antenna if needed for longer range.
- A cover bracket at the back of the receiver protects the antenna and cables. This is attached and removed easily by 4 thumb screws.
- This antenna works with all receivers.
  - For small receivers it fits under the receiver. In this configuration it adds only ½ inch in thickness to the receiver.
  - You can also operate this antenna in one hand for our larger receivers.

**Operation:** Please see the “Operation & Tips For Your Radio Recovery Equipment” sheet for general operating instructions.

### Instructions for mount antenna with TRX –3S, -10S, -16S and –48S receivers:

1. To mount the MINI 2 antenna onto a small receiver, align the antenna’s dual lock material with the same material on receiver bottom. Press together at the 4 corners. You will hear a “snap” when the attachment occurs.
2. Unfold the handle by turning the receiver so that bottom faces up. Lift the two center bars that are velcroed and hinged. Press the two center bars together so that the Velcro connects. You have created a pistol handle grip. Turn unit so you hold the receiver above the antenna.
3. To open the antenna elements, look at the receiver face. Note the 2 layers of antenna elements folder beneath receiver. Pull the bottom element halves out to 90 degrees from each side of the receiver. Then pull the upper element halves out to 90 degrees from each side of the receiver. You antenna mounted under a small receiver is now ready to use.

### Locate a signal:

1. To locate a transmitter collar’s signal, hold the receiver / antenna so you arm is fully extended in front of you. Raise the receiver / antenna so it is at or slightly above eye level. Rotate your body in a complete circle and watch the receiver’s meter needle or LED bar.



2. For best reception, turn your receiver ATTENUATOR ON, and keep your Gain / Volume low. Adjust the GAIN knob so that the meter needle or LED is only at 1-2 on the scale when you are pointing the antenna towards a strong signal.
3. Rotate your wrist so that the antenna elements move from a horizontal position to vertical and back.
4. Take several readings. Move about 10 feet to each side as well as 10 feet from front to back.
5. After use, fold antenna elements for storage.

### **Remove the antenna:**

1. IMPORTANT- Before you separate the antenna from receiver bottom, detach the cable and BNC connector assembly from receiver back. This prevents the cable from getting pulled and harmed. To detach the cable, press the right angle BNC connector IN to the receiver and TURN RIGHT. Pull the cable assembly from the receiver antenna jack. The receiver may now be used with a standard 3 element directional antenna. Just attach the 3 element antenna's BNC connector.
2. Ensure the antenna is folder beneath the receiver. Position one side of receiver against you.
3. Place 4 fingers of each hand on the other side between receiver and antenna. Interlock you fingers, grasp and pull (hard) the receiver from the antenna. The dual lock material snaps when it is separated.

### **Instructions to use antenna with big WMI or other brand receivers:**

1. Attach antenna to receiver by grasping the end of the antenna cable. Press the cable's BNC connector into the receiver's antenna jack by pushing IN and RIGHT.
2. Unfold the antenna handle by lifting the two center bars that are velcroed and hinged. Press the two center bars together so that the Velcro connects for a handle.
3. Open antenna elements; pull wings out to 90 degrees on each side.
4. Follow the instructions for "Locate a signal" printed above.

### **Instructions to attach antenna with WMI small receivers already in use:**

1. Loosen the 4 screws that secure the battery compartment lid at back of the receiver. You will be loosening thumb screws from a disposable-battery receiver, or, you will be removing standard 4-40 machine screws from a rechargeable-battery receiver.
2. Lift the battery compartment lid off. **Batteries and their foam shield must remain in the receiver.**



3. At the end of the antenna cable is a silver L-shaped BNC connector. Hook this connector to the receiver back by pushing IN and twist to the RIGHT until it locks into place.
4. If needed, remove new thumbscrews from the antenna's hardware pack. Insert them in the 2 screw holes on both sides of the receiver.
5. Remove the black cover from hardware pack. Fit this new larger cover over the receiver's battery compartment. Snug down the 4 thumb screws.
6. Now align your receiver with the antenna. Set receiver on top of antenna so back of receiver's larger covers fits snugly against the outside of the antenna's back L bracket. The two screw holes on both the receiver's cover and the antenna's L bracket should line up.
7. When you have aligned the receiver / antenna correctly, lift receiver back up. On the top of the antenna, peel white tape from the 5 Dual Lock pads at the center and 4 corners. **Do not touch adhesive surfaces of Dual Lock pieces.**
8. Double check you receiver / antenna alignment, as done in step #6. The two screw holes on both the receiver's cover and the antenna's L bracket must line up. Now press the receiver bottom to the antenna top so that **all adhesive pads touch at the same time**. Put pressure at the 4 corners and center of the unit, where the adhesive pads are located. You have hear a sound when they are correctly attached.
9. Allow the Dual Lock adhesive pads to set for at least 20 minutes before attempting to separate the MINI 2 Antenna from receiver.
10. Use 2 thumbscrews from the antenna's hardware pack. Tighten the screws into the screw holes at the back of the receiver's battery cover. The receiver's larger cover now protects both the battery compartment and the connectors with cable at the back of the receiver / antenna.
11. You may now follow the instructions for "Locate a signal," printed above.

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