

## RD-400

### Premium Tracking System, Radio Directional

1. Set Up Antenna Receiver: Press and release the red button to turn receiver on → Channel number appears in display
  
2. Select Band: Press and release red button once for each band increase → band number shows on display for 3 seconds → display returns to channel number
  
3. Change Receiver Channel: Press and release black button once for every channel increase → channel number shows on display
  
- 4.. Select Band on Collar: Two switches located inside the battery compartment  
ON is toward the acorn nuts  
OFF is toward the LED

Switch 1	Switch 2	Band
Off	Off	216
On	Off	217
Off	On	219
On	On	220

5. Set Up Collar Transmitter: Collar off  
Hold magnet to red paper dot → green light  
Pull magnet away → light out → flashing yellow light (previously set channel) → green blinking light = ready
  
6. Change Channel on Collar: Collar off  
Hold magnet to red paper dot → green light → light out  
→ solid yellow light → blinking yellow light (1-16)  
Pull magnet away when # flashes = desired channel  
Wait for confirmation

**Band and Channel setting on collar must be the same as on the receiver.**

7. Tune Receiver: Adjust receiver knob with **red** line (on left side of receiver box)  
Dial to tune out static  
Desired tone is a clear sound with high pitch
  
8. Set Range: Adjust receiver knob with **white** line (on right side of receiver box)  
Circle around and proceed in direction where dial sweeps to 5  
Walk a distance and circle around again  
Adjust white-lined knob to decrease range  
Sweep to 5 should reduce to 2-3
  
9. Put collar on dog

## Radio Directional Tracker RD-400 Features

- Antenna:** **RD-001** collapsible and weighs 1 pound  
Handle rotates; pull down to release and fold flat  
6 antenna slats are replaceable (small is farthest from user)  
(slats curve out away from user)
- RD-003** is a set of 6 slats: 2 small, 2 medium, and 2 large
- Batteries:** Collar uses 3v lithium and lasts up to 100 hours of use.  
Collar defaults to Channel 1 after changing battery  
Receiver box uses 9v alkaline\* and lasts up to 20 hours of use.  
\*(A 9v lithium is recommended for temps < 32° F – this system only)  
Receiver defaults to Channel 1 after changing battery
- Back-light:** The receiver meter and display can be back-lit for nighttime visibility  
Turns on/off by pressing and holding black button on receiver box.  
Using back-light feature will reduce receiver's 9v battery life
- Compatibility:** Innotek components will work with other manufacturer's tracking systems.
- Headphone Jack:** Located on right side of receiver. The speaker is muted when a  
headphone is used.
- RF Connector:** Female 50 ohm BNC jack  
Any 50 ohm compatible antenna and cable can be used providing the  
antenna is directional (not omni-directional)
- Range:** 7 miles      Flat, open areas of Indiana = 7-9 miles  
Swamp / forests of Georgia = 4-5 miles
- Tones:** Click (pause) click (pause) = dog is running  
Click, click (pause) click, click (pause) = dog is looking up a tree
- There is a ball bearing used in this treeing switch. It may rattle when the collar is shaken. This is normal.

Transmitter: The system comes with TWO collar transmitters  
Collar measures 2.125" wide x 1.75" tall x 1.5" thick  
Waterproof and weighs 6 oz.  
Uses 3v lithium battery  
Low battery indicator is flashing red light on transmitter  
Flexible antenna measures 12 inches (part # 0400007)  
(Remove plastic coating from the ring before placing on swages.)  
Battery screw cap and o-ring available in the RK-13

## Radio Directional Tracker RD-400 Troubleshooting Tips

- Range is Low: Tune receiver in finer using red-lined knob on left  
Listen for flat sound with middle pitch  
Rotate antenna from horizontal to vertical (or vice-versa)
- Dull Click: Mismatch of channels  
(Collar may be on Channel 1 and Receiver on Channel 4)
- Static on a Channel: Make sure transmitter and receiver are on the same channel and band.
- To remove receiver box from antenna: Remove and SAVE 4 Allen screws  
Remove and SAVE 2 screws from bracket  
Remove and SAVE bracket
- Replace Battery in Collar: Light should flash yellow, then green.  
If not, remove battery, wait 30 seconds, and try again.  
If this does not work, try a new battery.
- Replacing Antenna Blades: Scratch or peel off the latex coating covering the end to be attached to the antenna before inserting it.
- Losing Programming: Check for contact with magnets, or metal on dog.

## Frequency Chart

Bands:	216 mHz	Yellow	A mismatch in bands will result in 20-yard range. The dog will be seen before the equipment locates the dog.
	217 mHz	Green	
	219 mHz	Blue	
	220 mHz	White	

<u>Channel</u>	<u>Frequency (mHz)</u>	<u>Acceptable Frequency Range</u>
1	xxx.005	xxx.995 (previous band) – xxx.015 (user's band) *
2	xxx.055	xxx.045 – xxx.065
3	xxx.105	xxx.095 – xxx.115
4	xxx.155	xxx.145 – xxx.155
5	xxx.195	xxx.185 – xxx.205
6	xxx.225	xxx.215 – xxx.235
7	xxx.295	xxx.285 – xxx.305
8	xxx.365	xxx.355 – xxx.375
9	xxx.405	xxx.395 – xxx.415
10	xxx.455	xxx.445 – xxx.465
11	xxx.505	xxx.495 – xxx.515
12	xxx.555	xxx.545 – xxx.565
13	xxx.605	xxx.595 – xxx.615
14	xxx.655	xxx.645 – xxx.665
15	xxx.705	xxx.695 – xxx.715
16	xxx.755	xxx.745 – xxx.765

If the frequency falls outside the acceptable frequency range, the user will notice intermittent signals between ½ mile and one mile distances. If the dog is farther than one mile from the antenna, there will be no signal.

If using 216 band, the acceptable frequency ranges will be 215.995 – 216.015 for Channel 1 only.