



Rocky Mountain™ **R▲D▲R**

***SCRAMBLER
IS ACTIVATED***

Rocky Mountain Radar Radar and Laser Scramblers

Activation Manual

Distributed by ATB Computers and Electronics, Inc. – www.prt.net

SPECIFICATIONS:

Radar Scrambler:

Frequencies: 8.0-38.2 GHz

Antenna: Dual ridge cast waveguide

Mixer: Custom MM wave Schottky

Doppler: FM Chirp 500-9,000 Hz

Lidar Scrambler:

Full laser coverage using asynchronous pulse position modulation to confuse the lidar computer.

How does it work?

The Rocky Mountain Radar scramblers are full-featured radar and laser scramblers combining active laser and passive radar scrambling capabilities.

The radar jamming circuit mixes a Doppler FM chirp with the incoming police radar signal and reflects it back to the radar gun. The computer in the radar gun must receive eight identical, consecutive readings before it will display

your speed. All the different speeds contained in the FM chirp confuse the computer in the radar gun so it does not display any speed. This effect duplicates the normal operation that the officer usually sees.

Since it is normal to occasionally lose the target speed, the officer is not suspicious. Reasonable care should be used as flagrant violators could still be caught with an estimated speed.

The laser scrambling circuit transmits a series of pulses at the same wavelength used by the police laser guns (Lidar), which are electronically timed at about 100 feet apart. When the pulses pass through the windshield they will lose up to 50% of their power. The power output is four to eight times that needed to trigger the detector in the laser gun.

Lidar sends out laser pulses and measures how long it takes to hit your car and come back. From the speed of light it can determine your *range*. It sends out several more pulses and calculates your speed from the change in distance over time. The Rocky Mountain Radar scramblers only allow the Lidar to see up to 100 feet so it is unable to calculate your speed.

SCRAMBLER ACTIVATION:

All scramblers are factory set to the On position.

Unless otherwise noted.

Scrambler: To turn the scrambler on/off, review figure A and B to determine which model you own. For figure A, use a paper clip or other small pin to switch scrambler on or off. The switch is located through the slot opening according to the diagram. For figure B, Power off the unit, press and hold the City button down while turning power back on the unit.

If the scrambler is on the “T” LED light will be included in the start up sequence. If the scrambler is off the “T” LED light will not be included in the start up sequence. The “T” LED light is the test diagnostics for the scrambler.

SCRAMBLER OPERATION:

Drive normally. When the detector sounds an alert, take your foot off the gas, check your speed, adjust if necessary, and resume driving. Do not apply brakes unless you are grossly exceeding the speed limit. The scrambler will disable the radar long enough for you to adjust speed safely, if necessary.

Rocky Mountain Radar does not condone the use of excessive speed on the highways, nor does it endorse breaking the speed limit laws of the United States of America. Please drive safely when using this or any other electronic product in your car.

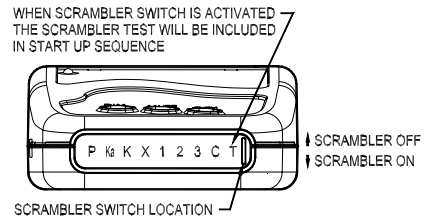


Fig A. RMR-C430

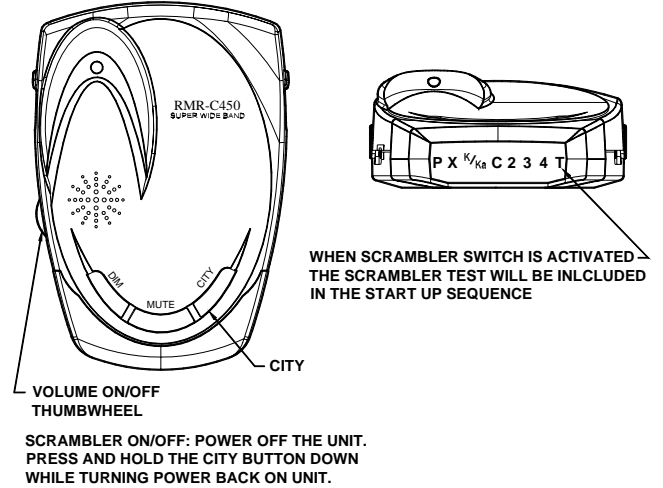


Fig B. RMR-C450

IS IT LEGAL?

The Rocky Mountain Radar scramblers conform to all FCC rules and regulations. Part 15 of the FCC code regulates consumer products that may leak or transmit radio frequency energy into the atmosphere. Since the scramblers are not transmitters, these sections do not apply.

The radar scrambler is a *reflective receiver* and has no emissions. It **does not transmit**, but uses the police radar gun's own signal as a carrier of its information.

The laser scrambler transmits a series of light pulses. There are no laws regarding the transmission of invisible light.

Frequently Asked Questions

The Rocky Mountain Radar scramblers are designed to give you radar and laser scrambling from the front half of the car.

Can I test it with roadside trailer radars?

The trailers you see on the side of the road that show your speed are not legal to use to write tickets. They do not contain the sophisticated sampling computers that are in police radar guns. Since our units confuse the computer and there is none, they will not work reliably against the trailers.

Can the police detect it?

The radar and laser scramblers do not have RF emissions and cannot be detected.

What states are they legal in?

The Rocky Mountain Radar scramblers are **not** legal in Colorado, Utah, California, Nebraska, Oklahoma, Minnesota *(unless the switchable scrambler feature is set to off)* and Virginia. The Rocky Mountain Radar detectors are **not** legal in commercial vehicles in most states. Use caution in these states.

What is Punch-Through?

The signal reflected by the car gets stronger the closer the target is to the radar gun. The Rocky Mountain Radar scrambler uses the radar signal as a carrier and reflects it through a high-gain antenna. It will work only as long as the scrambling signal is greater than the signal from the target. Punch-through is when these signals are equal or within 50-200 feet.

What is the effective range?

The radar scrambler works at four to six times the range of the radar gun. The laser scrambler is effective at more than two times the Lidar range.

Important information:

When driving in states that ban scramblers – turn off the scrambler function. Detectors are legal in all states except Virginia and Washington D.C. With the scrambler off, this unit is only a detector.

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