

**MDC20HX** 14MHz Replacement coil for MD200  
**MDC15HX** 21MHz Replacement coil for MD200  
**MDC10HX** 28MHz Replacement coil for MD200



## Operation Instructions

To use the product properly, read these instructions thoroughly before using it. Keep this manual carefully at hand for later use.

These replacement coils have to be used with MD200. They cannot be used by themselves.

### Description

1. Adjusting coil at the upper part of the coil assembly allows adjusting the antenna to desired frequency easily.
2. Adjusting coil is covered to minimize resonant frequency change of the coil assembly from rain and humidity.
3. High maximum power rating design permits stress free easy operation.

### How to install

Please refer to the manual of MD200. Screw the replacement coil until on UHF connector receptacle at the bottom of the MD200.

### Note

1. The antenna uses a car body as a ground. Be sure to have antenna bracket and car body conducted perfectly, otherwise, VSWR of the antenna can not be lowered. To use DIAMOND's trunk lid antenna bracket, remove protection sheet and have two screws penetrate into the body firmly to get better ground.
2. Radial element mast, magnet antenna base, roof side gutter mount bracket and rooftop carrier/front side mirror stay mount bracket are not able to use with the antenna due to their insufficient grounding. Especially, do not use the magnet base with the antenna, since it can not sustain antenna's long and heavy element.
3. VSWR of the antenna can not be lowered if its element is located too close to car body or other antennas. Then, change installation place or tilt the antenna slightly away from the obstacles.

### Adjustment

Be sure to practice adjustment at as lower power (preferably less than 10W) as possible. Don't touch whip element or replacement coil during transmission since it may invite serious electric shock due to its high voltage.

During operation, be sure to watch out for other people come close to the whip element and replacement coil, especially children, pedestrians and bicycles passing along the car.

1. Loosen set screw at upper parts of adjusting coil. Slide cover up and down to be adjusted at desired place and refasten the set screw. (Adjustment coil is set to the center position at the factory.)

By referring to the frequency deviation chart, adjust the coil up and down to desired frequency.

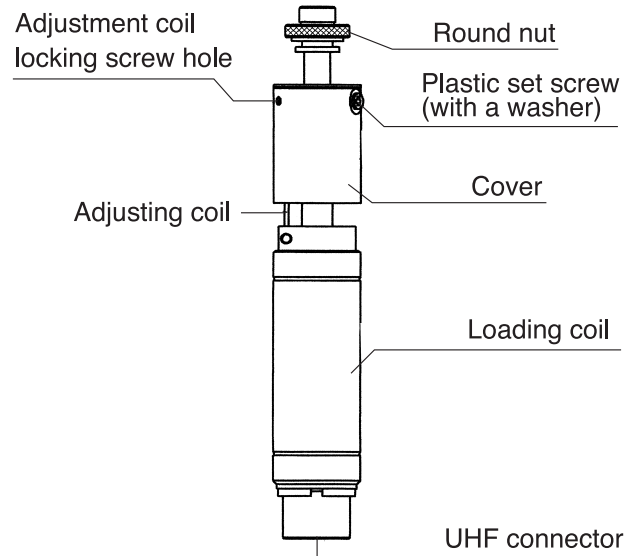
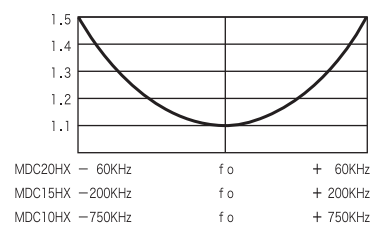
If the frequency is lower than your desired frequency, move the coil upward. If the frequency is higher than your desired frequency, move it downward.

2. After adjusting the coil to the desired frequency, set plastic set screw with a washer to the screw hole at the upper part of the cover and fasten it firmly.

Frequency deviation chart (per 5mm)

	Deviation amount (kHz)
MDC20HX	approx. 50
MDC15HX	approx. 140
MDC10HX	approx. 230

VSWR chart



### Specification

Max. Power rating: 300W(SSB) 100W(FM, CW)  
 Weight: 310g(MDC20HX), 295g(MDC15HX), 280g(MDC10HX)

Though these products purchased are manufactured under strict quality control, if damage is caused by transporting, ask your dealer promptly.

Design and specifications of these products will be changed for future improvement without advance notice.

## DIAMOND ANTENNA CORPORATION

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