



Ultrasonic Rodent Repeller  
Standard, TM I & TM II Model



Advanced Rodent Control Management From Maser  
The Ultimate Solution For Your Downtime Problems



## Ultrasonic Rodent Repeller

Maser Ultrasonic Rodent Repellers are electronic transmitters of high frequency sound (well above the 20 kHz frequency which is the upper limit of the hearing range of the human ear). They emit intensive sound at high decibel levels (sound pressure) that is audible and painful to rodents but is inaudible and harmless to humans. The rodent will usually leave the area being protected by the ultrasound. They do not get killed.

The powerful sound waves generated by the transducers of Maser repellers are within the hearing range of many rodents and cause them pain and discomfort. Sometimes they will leave the area being protected immediately, in the other cases it will take as long as two to three weeks before significant reduction in infestation occurs.

Maser transducers are completely quiet. If you cannot hear them do not think that the unit is not working. You cannot hear ultrasound.

### Model : Standard

This model is a stand alone system that can protect an enclosed area of 300 sq. ft.

### Model : Tailor Made I

This model is a stand alone system with an additional transducer. Apart from protecting the main work station the additional transducer protects the area of false ceiling or false flooring in the ATM/Server Room/Data Center/Hub Room etc.

### Model : Tailor Made II

This model is a stand alone system with two additional transducers. Apart from protecting the main work station the additional transducers protect the area of the false ceiling and false flooring in the ATM/Server Room/Data Center/Hub Room etc.

### Location of Maser Ultrasonic Rodent Repeller

Aim the Maser unit to the wall so that the sound will "bounce around" and will reflect from walls, ceiling,

room contents, and floor and will be present throughout the area. Since ultrasound usually does not penetrate walls, it is important that it bounces around corners to cover larger areas. Plug the Maser unit into a 230 volts standard wall outlet. Extension cords may be used if necessary. The green light (LED) will go ON and OFF to indicate that the unit is working. Leave the Maser unit ON 24 hours a day.

Maser units are designed for indoor use. If used outdoors they should be protected from the weather. Outdoors, because there are fewer possibilities for reflection of the ultrasound and many things that will absorb or dampen sound, their use is limited.

### Area of Effectiveness

A single Maser unit will protect an area of 300 sq. ft. in the work place or cabin. In the areas of the false ceiling/flooring the additional transducer will protect an area of 150 sq. ft. Under difficult conditions, the size of the area that will be protected can be considerably less. The type of structure, contents and partitions may limit the area of effectiveness.

Important considerations are the cleanliness of the area, the means of entry for rodents (easy or difficult), protection of food present in the area, and the availability of alternate source of food and water. Try one Maser unit in the area you wish to protect. Within two or three weeks, or sooner, you should see a reduction in rodent activity (sightings of rodent and droppings, and damage). If not, you may need one or more additional units.

### Guarantee :

Maser units are guaranteed for one year from the date of purchase by the user against defects in materials or workmanship.

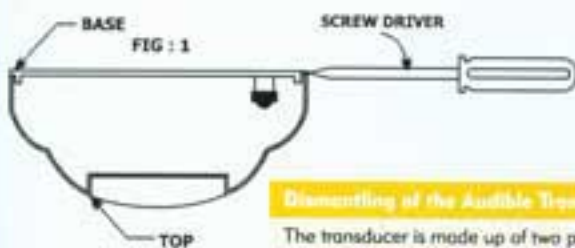
### Specifications :

Power Supply	:	230 Volts AC 50 Hz
Operating Frequency	:	Above 20 KHz
Sound Output	:	80-110dB
Power Output	:	900 mW per transducer
Power Consumption	:	5 Watts per transducer
Dimensions	:	225 x 65 x 115 (mm)
Weight	:	1250 gms.

## Procedure for Installing Maser TM I and TM II Model

1. Select a location for Maser TM1 or TM2 controller in the problematic area. Adequate ventilation for the TM1 and TM2 controller is a must.
2. Connect the equipment to a 230 VAC Supply. Check for proper earthing before connecting Maser TM1 and TM2 controller. Also check for proper A.C voltage i.e. 220/230 V.
3. The transducers have to be fixed at a height of 10 to 12 feet from the ground level, in the main room, and the distance between the transducers should be maximum 20 feet.
4. Install the transducers as per the markings on your floor plan.
5. The transducer comprises of 2 parts, Pry open the bottom lid of the transducer to connect the cables with the help of screws provided. The bottom lid of the transducer is to be fixed to the wall / ceiling / flooring and the top part of the transducer is to be press fitted to the bottom lid.
6. The transducers in the main room / ceiling should face a wall or an obstructing surface and not open areas such as open doors windows etc so that maximum bouncing effect is attained.
7. The Transducers have to be looped to the controller if the controller is TM2.
8. Only 2 additional transducers can be connected to a TM2 Controller and 1 additional transducer can be connected to a TM1 controller. The cables need to be encased in a PVC/ GI conduit pipe.
9. Continuity test to be done with the help of the test switch provided in the front panel of the system.
10. All conduiting to be done aesthetically.

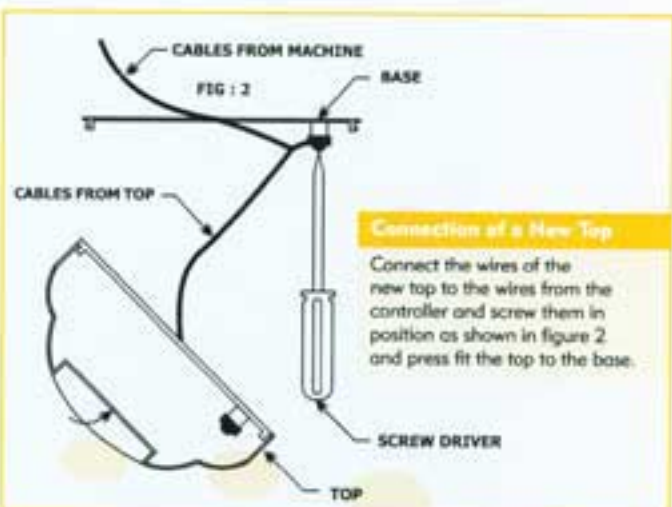
### PROCEDURE FOR REPLACEMENT OF AN AUDIBLE TRANSDUCER



#### Disassembling of the Audible Transducer

The transducer is made up of two parts  
1) Base and 2) Top.

Pry open the top from the base with the help of a screw driver as shown in Fig 1. Disconnect the wires from the base and separate the top from the base.



#### Connection of a New Top

Connect the wires of the new top to the wires from the controller and screw them in position as shown in figure 2 and press fit the top to the base.



MASER ULTRASONIC RODENT REPELLER  
STANDARD, TM I & TM II MODEL



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