MB X5 PT Pneumatic Transmitter

Instruction Manual

Pneumatic vehicle detection for driveways, entrances, and access roads

The MB X5 PT detects a vehicle when a tire compresses the rubber driveway hose. The resulting air-pressure pulse activates the pneumatic transmitter, which sends a wireless signal to the MB X5 chime receiver.

The MB X5 PT Kit Includes:

- MB X5 0 Chime Receiver
- MB X5 PT Pneumatic Transmitter
- Rubber driveway hose
- 9-volt battery
- Instruction Manual

Up to 16 compatible transmitters can be paired with a single MB X5 receiver chime.

Setting up the MB X5 PT Pneumatic Driveway Transmitter Kit:

1. Install the battery

- Open the MB X5 PT transmitter enclosure to access the battery connection.
- Connect one 9-volt alkaline battery. Allow the transmitter a few seconds to power up before testing.
- Close and secure the transmitter enclosure after the battery is connected.

2. Connect and position the driveway hose

- Push the rubber hose securely onto the pneumatic stem on the transmitter.
- Lay the hose across the driveway where vehicle tires will pass over it.
- Keep the hose as straight as practical and make sure there are no kinks or sharp bends. A kink can prevent the air-pressure pulse from reaching the transmitter.
- Position the hose so normal vehicle traffic compresses it without pulling on the transmitter box.

3. Mount the MB X5 PT transmitter

- Mount the transmitter box vertically on a tree, wall, or wooden post at least 3 feet above the ground.
- Avoid mounting directly to a steel post or large metal surface because metal can reduce wireless range.
- For best performance, place the transmitter where there is a reasonably clear path toward the MB X5 receiver.

Always test the complete system before permanently mounting the transmitter and securing the hose.

Pair the MB X5 PT Transmitter with the MB X5 Chime Receiver

You can connect up to 16 compatible transmitters to one MB X5 chime receiver.

1. Place the MB X5 PT transmitter near the MB X5 chime receiver during pairing.
2. Press and hold the "M" (mode) button on the MB X5 receiver for 3 seconds. The blue lights will flash four times. Release the "M" button.
3. Press the volume button to scroll through the 16 available tones. Stop on the tone you want assigned to this transmitter.
4. Activate the MB X5 PT once. The preferred method is to compress the driveway hose once by stepping on it when it is connected to the transmitter box. Be sure to have an end-of-hose plug inserted into the open end of the driveway tubing. During bench setup, the diaphragm contacts may also be closed manually VERY, VERY GENTLY.
5. The MB X5 receiver will beep to confirm successful pairing.
6. If pairing additional transmitters, repeat the pairing process for each transmitter and select a tone as desired.
7. When pairing is complete, press and hold the "M" (mode) button for 3 seconds until the blue lights stop flashing.
8. Test the MB X5 PT by driving over or firmly stepping on the hose. The paired tone should sound and the blue LED lights on the receiver should flash.

IMPORTANT:

If manually closing the diaphragm contacts during setup, use only the lightest pressure necessary. Do not bend, force, or over-compress the contacts.

Installation and Operation

How the pneumatic transmitter works

When a vehicle tire compresses the driveway hose, the hose creates a brief pulse of air pressure. That pulse operates the diaphragm switch inside the MB X5 PT. The transmitter then sends a wireless signal to the paired MB X5 receiver.

Installation tips

- Install the hose where at least one tire of an approaching vehicle will cross it.
- Do not pinch, tightly bend, or kink the hose.
- Keep the transmitter enclosure above standing water and mount it securely.
- Do not place the transmitter inside a metal enclosure.
- Trees, hills, buildings, metal siding, and other obstructions can reduce radio range.
- After installation, test the system by driving a vehicle over the hose several times.

Troubleshooting

Problem	Check
Receiver does not sound	Confirm battery connection; verify pairing; compress the hose firmly; check the hose for kinks or leaks.
Works close by but not at final location	Move the transmitter higher or away from metal; reduce obstructions between transmitter and receiver.
Intermittent vehicle detection	Make sure the hose is not kinked, damaged, or positioned where tires can miss it.
Wrong chime tone	Repeat the pairing procedure and select the desired tone before activating the transmitter.

Specifications

Power Source	9-volt alkaline battery
Vehicle Detection	Pneumatic rubber driveway hose / diaphragm switch
Receiver Compatibility	MB X5 chime receiver
System Capacity	Up to 16 compatible transmitters per MB X5 receiver
Chime Selection	16 available receiver tones
Radio Frequency	433 MHz
Wireless Range	Up to approximately 1/2 to 1 mile under favorable conditions. Actual range varies with terrain, buildings, trees, metal, and other obstructions.

Tech Support

If you encounter issues with this product after consulting the manual, contact Milton's Bells at 855-464-6458, Monday through Friday, 9:00 AM to 5:00 PM Central Time.

Warranty Information - 1-Year Limited Warranty

Milton's Bells warrants this product against defects in materials and workmanship under normal use for one year from the date of purchase. Proof of purchase is required.

This warranty does not cover misuse, abuse, unauthorized modification, normal wear, cosmetic damage, accidents, natural disasters, improper installation, or damage caused by unapproved accessories.

FCC Compliance Statements

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated at a minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Thank you for choosing Milton's Bells.