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## Hormann 4510023

# Hormann TS Transponder Key 4510023

Instruction Manual

## 1. PRODUCT OVERVIEW

The Hormann TS Transponder Key, Model 4510023, is a compact and practical transmitter/receiver device designed for seamless integration with Hormann TTR 100, TTR 1000, and TTR 100-1 systems. Its innovative technology ensures 100% compatibility and reliable performance. The device is engineered to be very small, preventing interference with your existing keychain, and includes a durable key ring for easy carrying.



Figure 1: Front view of the Hormann TS Transponder Key with the Hormann logo clearly visible.

### Key Features:

- Innovative technology and exclusive design.
- 100% compatibility with TTR 100, TTR 1000, and TTR 100-1 systems.
- Extremely compact size to avoid interference with keychains.
- Integrated key ring for convenient portability.

## 2. SETUP AND PROGRAMMING

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The Hormann TS Transponder Key is designed for straightforward setup with compatible Hormann TTR systems. Programming typically involves a simple process of pairing the transponder with your existing receiver unit.

### Initial Setup Steps:

1. **Locate your TTR Receiver Unit:** Ensure your TTR 100, TTR 1000, or TTR 100-1 receiver unit is powered on and accessible.
2. **Access Programming Mode:** Refer to your TTR system's specific manual for instructions on how to put the receiver into programming mode. This often involves pressing a learn button on the receiver.
3. **Activate the Transponder:** While the receiver is in programming mode, activate the TS Transponder Key. This may involve pressing and holding a button on the transponder, if applicable, or simply bringing it within range of the receiver.
4. **Confirmation:** The receiver unit will typically provide a visual or audible signal (e.g., an LED flash or beep) to confirm successful pairing.
5. **Test Operation:** After successful pairing, test the transponder's functionality by attempting to operate the connected system (e.g., opening/closing a gate or garage door).

**Note:** For detailed programming instructions specific to your TTR system model, please consult the manual provided with your TTR 100, TTR 1000, or TTR 100-1 receiver unit. Online resources and video tutorials from Hormann may also be available.





Figure 2: Top view of the transponder key, highlighting the key ring attachment point.

### 3. OPERATING INSTRUCTIONS

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Once successfully programmed, the Hormann TS Transponder Key operates by transmitting a signal to its paired TTR receiver unit. The operation is simple and intuitive.

#### **Basic Operation:**

- **Activation:** To operate your TTR system (e.g., open or close a gate/garage door), simply bring the TS Transponder Key within the operational range of the receiver unit.
- **Signal Transmission:** The transponder will automatically transmit its unique signal to the receiver.
- **System Response:** The TTR system will respond according to its programmed function (e.g., opening, closing, or stopping the gate/door).

**Important:** Ensure there are no obstructions between the transponder and the receiver unit that could block the signal. The effective range may vary depending on environmental factors and the specific TTR receiver model.



Figure 3: Side view of the transponder key, showing its slim profile.

## 4. MAINTENANCE

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The Hormann TS Transponder Key is designed for durability and requires minimal maintenance. Following these simple guidelines will help ensure its longevity and reliable performance.

### Care and Storage:

- **Keep Dry:** Avoid exposing the transponder to excessive moisture or liquids. While robust, prolonged exposure to water can damage internal components.
- **Clean Gently:** If cleaning is necessary, wipe the surface with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Avoid Extreme Temperatures:** Store the transponder in a moderate environment, away from extreme heat or cold, which can affect its performance and material integrity.
- **Protect from Impact:** Although durable, avoid dropping the transponder or subjecting it to strong impacts, which could damage its internal electronics.
- **No User-Serviceable Parts:** The transponder does not contain any user-serviceable parts or replaceable batteries. Do not attempt to open the casing.

## 5. TROUBLESHOOTING

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If you experience issues with your Hormann TS Transponder Key, consider the following common troubleshooting steps before seeking professional assistance.

### Common Issues and Solutions:

Problem	Possible Cause	Solution
Transponder not working.	Not programmed correctly.	Re-attempt the programming steps outlined in Section 2. Ensure the TTR receiver is in programming mode.
Intermittent operation.	Signal interference or range issues.	Ensure no obstructions are between the transponder and receiver. Try operating closer to the receiver. Check for other electronic devices causing interference.
No response from TTR system.	TTR receiver power issue or system malfunction.	Verify that your TTR 100/1000/100-1 receiver unit is powered on and functioning correctly. Consult your TTR system's manual for troubleshooting its power or operational status.
Physical damage to transponder.	Impact or water damage.	If the transponder is physically damaged, it may need replacement. Contact Hormann support for assistance.

If these steps do not resolve the issue, please contact Hormann customer support or a qualified technician.

## 6. SPECIFICATIONS

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Detailed technical specifications for the Hormann TS Transponder Key, Model 4510023.

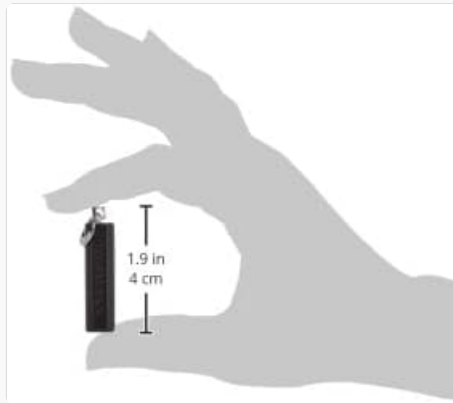


Figure 4: The compact size of the transponder key shown in hand, with approximate dimensions.

Specification	Detail
Manufacturer	Hormann
Part Number	4510023
Item Model Number	4510023
Item Weight	10 grams
Product Dimensions	0.57 x 0.11 x 0.09 cm (0.5 x 0.1 x 0.09 cm listed in some descriptions)
Size	0.5 x 0.1 x 0.09 cm
Number of Pieces	1
Measurement System	Metric
Included Components	TS Transponder Key (Black) for TTR 1000-1
Batteries Included?	No
Batteries Required?	No
ASIN	B07CM3S565
Date First Available	June 26, 2024

## 7. WARRANTY AND SUPPORT

For warranty information and customer support regarding your Hormann TS Transponder Key, please refer to the official Hormann website or contact their authorized distributors.

### Contact Information:

- **Hormann Official Website:** Visit [www.hormann.com](http://www.hormann.com) for product information, FAQs, and contact details.
- **Customer Service:** Contact Hormann customer service directly for technical assistance, warranty claims, or replacement parts.
- **Authorized Dealers:** Your local authorized Hormann dealer can also provide support and service.

Please have your product model number (4510023) and purchase details ready when contacting support.

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