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Technomate TM-2300

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Model: TM-2300 | Brand: Technomate

1. INTRODUCTION

The Technomate TM-2300 H-H Diseqc Motor is designed for precise satellite dish positioning, enabling reception from multiple satellites across a wide arc. This manual provides essential information for the safe installation, correct operation, and proper maintenance of your TM-2300 motor. Please read these instructions thoroughly before attempting installation or operation to ensure optimal performance and longevity of the product.

2. SAFETY INFORMATION

- Always disconnect power to the satellite receiver and any associated equipment before installing or servicing the motor.
- Ensure all connections are secure and weatherproof to prevent water ingress, which can damage the motor and connected devices.
- Mount the motor and satellite dish securely to a stable pole or wall mount to prevent movement due to wind or other environmental factors.
- Avoid touching moving parts of the motor during operation.
- Do not attempt to open or repair the motor yourself. Refer all servicing to qualified personnel.
- Keep children and pets away from the satellite dish and motor during installation and operation.

3. PACKAGE CONTENTS

The standard package for the Technomate TM-2300 H-H Diseqc Motor typically includes:

- 1x Technomate TM-2300 H-H Diseqc Motor
- Mounting hardware (e.g., bolts, nuts, washers for pole attachment)
- User Manual (this document)

Note: Specific contents may vary. Please check your product packaging for a complete list.

4. PRODUCT OVERVIEW

The Technomate TM-2300 is a high-quality H-H (Horizontal-Horizontal) Diseqc motor designed to move your satellite dish precisely to track various satellites across the geostationary arc. It receives commands from your Diseqc 1.2 or USALS compatible satellite receiver via the coaxial cable, eliminating the need for additional control cables. This motor ensures accurate positioning for optimal signal reception.



Figure 1: Technomate TM-2300 H-H Diseqc Motor. This image displays the compact design of the motor, including its mounting bracket and the coaxial input/output ports for connection to the LNB and satellite receiver.

5. SETUP AND INSTALLATION

Proper installation is crucial for the performance of your Diseqc motor. Follow these steps carefully:

- 1. Mounting the Motor:** Securely attach the TM-2300 motor to a sturdy, vertical pole. Ensure the motor is perfectly plumb (vertical) using a spirit level. The motor's mounting bracket should be tightened firmly to prevent any rotation.
- 2. Attaching the Satellite Dish:** Mount your satellite dish onto the motor's dish mounting plate. Ensure the dish is centered and balanced. Tighten all bolts securely.
- 3. Connecting Cables:**
 - Connect the coaxial cable from your LNB (Low Noise Block) on the satellite dish to the "LNB" input port on the motor.
 - Connect a coaxial cable from the "RECEIVER" output port on the motor to the "LNB IN" port on your satellite receiver.
 - Ensure all F-connectors are properly installed and weatherproofed with self-amalgamating tape or rubber boots.
- 4. Initial Alignment (South-Facing):**
 - For Northern Hemisphere users, the motor and dish assembly must be pointed directly South (0 degrees azimuth relative to true South). For Southern Hemisphere users, point North.
 - Adjust the elevation of the motor's main shaft to match your geographical latitude. This is a critical step for USALS functionality.
 - Adjust the dish's elevation on the motor to match the elevation required for your central (reference) satellite.
- 5. Receiver Configuration:** Access your satellite receiver's menu and navigate to the antenna setup or motor settings. Select Diseqc 1.2 or USALS mode. Input your precise longitude and latitude coordinates if using USALS.

6. OPERATING INSTRUCTIONS

Once installed and initially aligned, the TM-2300 motor is controlled directly by your satellite receiver.

- **Diseqc 1.2 Mode:**

In this mode, you manually move the dish to each desired satellite position using the receiver's motor control functions (East/West movement). Once a satellite is found and optimized for signal quality, you save its position in the receiver's memory. The receiver will then send a command to the motor to move to that saved position whenever you select a channel from that satellite.

- **USALS Mode (Universal Satellite Automatic Location System):**

USALS simplifies satellite tracking. After entering your exact geographical coordinates (latitude and longitude) into the receiver, the receiver automatically calculates the precise position for every satellite in the geostationary arc. When you select a channel, the receiver sends a command to the motor to move to the calculated position for that satellite. This eliminates the need for manual saving of each satellite position.

- **Moving the Dish:** Use your receiver's remote control to access the motor control menu. You can typically move the dish incrementally (step-by-step) or continuously East or West. Always ensure the dish has a clear line of sight to the desired satellite.

7. MAINTENANCE

The Technomate TM-2300 motor is designed for outdoor use and requires minimal maintenance. However, periodic checks can extend its lifespan:

- **Visual Inspection:** Periodically check the motor and dish for any signs of physical damage, loose connections, or corrosion.
- **Cable Integrity:** Ensure all coaxial cables are intact, free from cracks, and that F-connectors are tight and weatherproofed.
- **Mounting Security:** Verify that the motor and dish remain securely fastened to their mounting pole and that the pole itself is stable.
- **Cleaning:** Gently clean the exterior of the motor with a damp cloth if it becomes excessively dirty. Do not use harsh chemicals or abrasive cleaners.
- **Winterization:** In areas with heavy snow or ice, ensure the dish and motor are clear of obstructions. Do not attempt to force the motor if it is frozen.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor does not move.	No power from receiver, incorrect Diseqc settings, faulty cable, motor malfunction.	Check receiver power and Diseqc settings. Ensure cables are securely connected. Test with a known working receiver/motor if possible.
Loss of signal or weak signal.	Dish misalignment, LNB fault, cable damage, obstruction, incorrect satellite position saved.	Re-align the dish and motor. Check LNB and cables for damage. Ensure no obstructions are blocking the signal path. Re-scan or re-save satellite positions.
Motor moves to wrong satellite.	Incorrect Diseqc 1.2 position saved, incorrect USALS coordinates, motor calibration issue.	Verify saved positions in Diseqc 1.2 mode. Double-check latitude/longitude in USALS mode. Some receivers have a motor reset/re-calibration function.
Motor makes unusual noises.	Mechanical obstruction, internal damage, wear and tear.	Inspect for external obstructions. If noises persist and performance is affected, contact support.

9. SPECIFICATIONS

- **Model:** TM-2300
- **Brand:** Technomate
- **Manufacturer:** Technomate
- **ASIN:** B003XYC1CU
- **Motor Type:** H-H (Horizontal-Horizontal) Diseqc Motor
- **Diseqc Protocol:** Compatible with Diseqc 1.2 and USALS (Universal Satellite Automatic Location System)
- **Input Voltage:** 13/18V DC (supplied via coaxial cable from satellite receiver)
- **Rotation Angle:** Typically up to 70-80 degrees East/West (dependent on installation and dish size)
- **Max Dish Size:** Refer to product packaging or manufacturer's website for specific recommendations.
- **Operating Temperature:** Refer to product packaging.

Note: Specifications are subject to change without notice.

10. WARRANTY AND SUPPORT

Information regarding the product warranty is not detailed within this manual. For warranty claims, technical support, or inquiries about spare parts, please contact your retailer or the manufacturer, Technomate, directly. Please retain your proof of purchase for warranty purposes.

- **Spare Parts Availability:** Information regarding spare parts availability is not provided.
- **Software Updates:** Information regarding guaranteed software updates is not provided.