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› Wayne Dalton Torquemaster Spring - Convert Original to Plus Upgrade Spring and Parts / 7 ft high/Between 60-69lbs - Single Spring
Between 60 - 69lbs - Single spring

WAYNE DALTON WD-314973-UPKIT

Wayne Dalton Torquemaster Spring Upgrade Kit Instruction Manual

Model: WD-314973-UPKIT

PRODUCT OVERVIEW

This manual provides instructions for the Wayne Dalton Torquemaster Spring Upgrade Kit. This heavy-duty kit is designed for 7-foot tall Wayne Dalton Garage Doors utilizing the Torquemaster spring system, offering a 10,000 high-cycle life replacement spring. It facilitates the conversion from original TM1 springs to the newer style TM3 (Plus) springs, including all necessary components for a complete upgrade.



Image: Complete Wayne Dalton Torquemaster Spring Upgrade Kit, showing the coiled spring, winding assembly, cable drums, and various hardware components.

BEFORE INSTALLATION: DETERMINING YOUR SPRING NEEDS

Before proceeding with installation, it is crucial to accurately determine your existing spring type, door height, and door weight. This kit is specifically designed for 7-foot high garage doors with a weight between 60-69 lbs (single spring configuration). Incorrect spring selection can lead to improper door operation and potential safety hazards.

1. Determine Spring Style (Torquemaster Original vs. Plus)

Identify whether your current system is Torquemaster Original (TM TMI) or Torquemaster Plus (TMII TM3). The winding end of the spring tube will indicate the type. The upgrade kit converts Original to Plus.

Torquemaster PLUS (TMII TM3)



End colors & materials
may vary

**Torquemaster
Original (TM TMI)**

Image: Close-up comparison of Torquemaster Plus (TMII TM3) and Torquemaster Original (TM TMI) spring ends, highlighting their distinct shapes. The Plus version has a hexagonal end, while the Original has a circular, splined end.

Torquemaster Plus (TMII TM3): Features a visible spring cone sticking out of the bracket, often with a red winding end. The spring tube label may indicate "TM3" or "TMP".

Torquemaster Original (TM TMI): Features a counter gear visible on the outside of the bracket. The spring tube label may indicate "TM" or "TMI".

2. Measure Door Height

Measure the height of your garage door. This kit is for 7-foot high doors (measuring between 6'6" and 7'5"). If your door measures between 7'6" and 8'5", you would need an 8-foot kit (available separately).

3. Measure Door Weight

The most critical information for ordering the correct spring is your garage door's balance weight. Springs are specifically rated for a range of door weights. The weight is often listed on a label located on the metal spring tube. If no label is present or legible, you can weigh your door using a bathroom scale.

- If your spring is broken, lift the door slightly and slide a bathroom scale under the center of the door.
- Ensure the full weight of the door is on the scale. Both cables should be fully slack. If there is still tension on the cables, the reading will not be accurate.
- This specific kit is for single springs supporting a door weight between 60-69 lbs.

Instructional Video: How to Order Torquemaster Springs



Video: A detailed guide from Express Garage Doors Inc. on how to correctly identify your Wayne Dalton Torquemaster spring type, measure your garage door's height, and determine its weight to ensure you order the appropriate replacement spring.

INSTALLATION INSTRUCTIONS

This kit includes easy-to-follow DIY installation instructions. Due to the complexity and potential hazards associated with garage door spring replacement, it is highly recommended to consult the detailed instructions provided with your kit and consider professional assistance if you are not confident in performing the installation yourself. Ensure all safety precautions are followed.

- **Safety First:** Always disconnect the garage door opener from power before beginning any work. Wear appropriate safety gear, including eye protection and gloves.
- **Release Tension:** Carefully follow instructions to release any remaining tension from the old spring system. This is a critical step and can be dangerous if not done correctly.
- **Remove Old Components:** Remove the old spring(s), winding assembly, and cable drums as per the kit's instructions.
- **Install New Components:** Install the new plus-style TM3 replacement spring(s), compatible winding assembly, and cable drum kits.
- **Wind New Spring(s):** Follow the specific winding instructions for the new spring(s) to apply the correct tension. This step is crucial for proper door balance and operation.
- **Test Operation:** After installation, carefully test the garage door's balance and operation. The door should stay in place when manually lifted to various heights.

For detailed, step-by-step instructions, refer to the printed manual included in your Wayne Dalton Torquemaster Spring Upgrade Kit.

OPERATING YOUR GARAGE DOOR

Once the Wayne Dalton Torquemaster Spring Upgrade Kit is correctly installed and the spring tension is properly adjusted, your garage door should operate smoothly and efficiently. The spring system assists the garage door opener by counterbalancing the door's weight, making it easier to open and close.

- **Automatic Operation:** Use your garage door opener remote or wall button to open and close the door. Observe for smooth, consistent movement without jerking or excessive noise.
- **Manual Operation:** In case of power outage or opener malfunction, disengage the emergency release handle (usually a red cord) to operate the door manually. The door should feel relatively light and balanced when lifted by hand.
- **Safety Reversal Test:** Regularly perform the safety reversal test. Place a 2x4 board flat on the floor in the path of the closing door. The door should reverse upon contact. If it does not, adjust the opener's force settings or consult a professional.

MAINTENANCE

Regular maintenance of your garage door system, including the Torquemaster springs, is essential for longevity and safe operation. While the Torquemaster system is designed for durability, periodic checks can prevent issues.

- **Visual Inspection (Monthly):** Look for any signs of wear, rust, or damage on the spring, cables, pulleys, and other hardware. Ensure all bolts and fasteners are tight.
- **Lubrication (Annually):** Apply a silicone-based lubricant to the moving parts of the garage door, including hinges, rollers, and the spring system. Do not use grease or oil, as they can attract dirt.
- **Balance Test (Annually):** With the garage door closed, disconnect the opener. Manually lift the door halfway. If the door does not stay in place or drifts up or down, the spring tension may need adjustment. This should ideally be done by a qualified technician.
- **Cable Inspection:** Check the cables for fraying or wear. Damaged cables can be extremely dangerous and must be replaced immediately by a professional.

TROUBLESHOOTING

If you encounter issues with your garage door after installing the Torquemaster spring upgrade, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Door is heavy or difficult to lift manually.	Insufficient spring tension.	Spring may need further winding. Caution: This is a dangerous procedure and should only be performed by a qualified technician.
Door opens too quickly or slams shut.	Excessive spring tension.	Spring tension may need to be reduced. Caution: This is a dangerous procedure and should only be performed by a qualified technician.
Door is crooked or one side is higher.	Uneven cable tension or damaged cable/drum.	Inspect cables and drums for damage. Adjust cable tension if necessary (professional recommended).
Loud noises during operation.	Lack of lubrication, loose hardware, or worn parts.	Lubricate moving parts. Check and tighten all hardware. Inspect rollers and hinges for wear.

If troubleshooting steps do not resolve the issue, or if you are unsure about any procedure, it is strongly advised to contact a professional garage door technician for assistance.

SPECIFICATIONS

- Brand:** WAYNE DALTON
- Model Number:** WD-314973-UPKIT
- Product Type:** Torquemaster Spring Upgrade Kit
- Door Height Compatibility:** 7 ft (for doors measuring 6'6" - 7'5")
- Door Weight Compatibility:** Between 60 - 69 lbs (Single spring configuration)
- Spring Life Cycle:** 10,000 high cycle life
- Material:** Metal
- Item Weight:** Approximately 10 pounds

First Available Date: November 1, 2020

WARRANTY INFORMATION

Specific warranty details for the Wayne Dalton Torquemaster Spring Upgrade Kit are typically provided by the manufacturer or seller at the time of purchase. Please refer to the documentation included with your product or contact the seller, Express Garage Doors Inc., for precise warranty terms and conditions. Generally, springs are covered against defects in material and workmanship for a specified period.

Note: Improper installation or misuse may void the product warranty. Always ensure installation is performed correctly, ideally by a certified professional, to maintain warranty validity.

SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding your Wayne Dalton Torquemaster Spring Upgrade Kit, please contact the seller:

Seller: Express Garage Doors Inc.

You can often find contact information on your purchase receipt or through the platform where the product was purchased (e.g., Amazon seller page). When contacting support, please have your product model number (WD-314973-UPKIT) and purchase details readily available.

For general information about Wayne Dalton products, you may visit the official Wayne Dalton website.

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