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WAYNE DALTON WD-TMS3659-UPKIT

Wayne Dalton Torquemaster Plus Spring Upgrade Kit Installation Manual

Model: WD-TMS3659-UPKIT (8 ft high, 110-119 lbs Double Spring Set)

INTRODUCTION

This manual provides detailed instructions for the installation and maintenance of your Wayne Dalton Torquemaster Plus Spring Upgrade Kit. This kit is designed to convert original Torquemaster systems to the newer Plus style, ensuring optimal performance for your 8 ft high garage door with a balanced weight between 110-119 lbs. Please read all instructions carefully before beginning the installation process.

IMPORTANT SAFETY INFORMATION

WARNING: Garage door springs are under extreme tension and can cause serious injury or death if not handled properly. Installation and adjustment should only be performed by individuals with mechanical aptitude and proper tools. If you are unsure about any step, consult a qualified garage door technician.

- Always disconnect the garage door opener from power before beginning any work.
- Never attempt to remove or adjust springs while the door is open.
- Wear appropriate safety gear, including safety glasses and gloves.
- Keep children and pets away from the work area.
- Ensure the garage door is fully closed and secured before working on springs.

BEFORE YOU BEGIN: DETERMINING YOUR SPRING REQUIREMENTS

Before installing your new Torquemaster Plus springs, it is crucial to correctly identify your existing spring system, door height, and door weight. This ensures you have the correct replacement parts for safe and efficient operation.

1. Determine Spring Type (Original vs. Plus)

Identify whether your current Torquemaster system is the Original (TM/TM1) or Plus (TMII/TM3) style. The winding end of the spring tube will differ:

- **Torquemaster Plus (TMII TM3):** Features a visible spring cone sticking out of the bracket.
- **Torquemaster Original (TM TM1):** Has a counter gear visible on the outside of the bracket.

Torquemaster PLUS (TMII TM3)



End colors & materials may vary

Torquemaster Original (TM TM1)

Image: Comparison of Torquemaster Plus (left) and Original (right) spring ends. Note the visible spring cone on the Plus version and the counter gear on the Original.

2. Measure Door Height

Measure the height of your garage door. Alternatively, check the label on the metal spring tube, which often lists the door dimensions. For this specific kit, it is designed for 8 ft high doors (measuring between 7'6" - 8'2").

3. Measure Door Weight

The most critical information is your garage door's balanced weight. Springs are rated for specific weight ranges. You can find the weight on a label on the metal spring tube (often listed as Wgt/Bal Wt/Bal Wgt). If no label is present, you can weigh the door:

1. Ensure all spring tension is released.
2. Lift the door slightly and slide a bathroom scale under the center.

3. Make sure the cables are fully slack on both sides to ensure the full weight is on the scale.
4. Read the weight displayed on the scale.

This kit is for double spring sets with a door weight between 110-119 lbs.

Video Guide: How to Order Torquemaster Springs

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Video: This video from Express Garage Doors Inc. provides a visual guide on how to determine your Torquemaster spring type, measure door height, and measure door weight to ensure correct ordering of replacement springs.

TOOLS REQUIRED FOR INSTALLATION

Gather the following tools before starting the installation process:

- Power drill with socket set
 - Ratchet wrench with 5/8-inch socket
 - 3-inch socket extension
 - Flathead screwdriver
 - Phillips screwdriver
 - Locking pliers (vise clamps)
 - Needle-nose pliers
 - Stepladder
 - Measuring tape
 - Marker (to count turns)
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INSTALLATION INSTRUCTIONS

Follow these steps carefully to install your Wayne Dalton Torquemaster Plus Spring Upgrade Kit. Refer to the embedded video for visual guidance.

Video Guide: How to Install Wayne Dalton TorqueMaster Plus Springs

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Video: This video from Express Garage Doors Inc. demonstrates the step-by-step installation process for Torquemaster Plus springs.

Step 1: Insert the New Springs

1. Slide your new right or left-hand springs into the metal tube, perch end first.
2. Place the tube back onto the center wall bracket and flag brackets above your door.
3. Ensure the end of the spring hangs out of the tube about 5 inches on each side.
4. Center the tube in the wall bracket and bend the center tab over the bushing.



Image: The complete Wayne Dalton Torquemaster Plus Spring Upgrade Kit, including springs, winding assembly, and cable drum kits.

Step 2: Install Cable Drums

1. On the right side, ensure the teardrop peak on the tube points straight up.
2. Slide the correct drum over the winding shaft until it is fully seated.
3. Wrap the cables one and a half turns, or align with previous settings.
4. For double springs, repeat this process on the left side. For single springs, insert the idler bracket until it clicks twice and seats flush.

Step 3: Mount End Brackets

1. Identify the right end bracket by its cable guide. If the ratchet wheel falls out, reinstall it with the teeth facing upward clockwise.
2. Slide the end bracket onto the winding shaft, matching the splines. Ensure the tab is seated.
3. Attach it to the flag angle using a carriage bolt, washer, and nut.
4. Secure it to the jamb with a lag screw.
5. For double springs, repeat on the left side. For single springs, ensure the left drum bearing is tight against the

flag angle with no rubbing or gaps, then fasten your idler bracket.

Step 4: Adjust Cables

1. Start on the right side. Rotate the drum until the set screw faces away from the header, and the spring tube peak is straight up.
2. Loosen the set screw about half a turn.
3. Confirm the cable is seated in the first and second grooves.
4. Pull the cable tight to remove any slack and ensure tension is equal on both sides.
5. Tighten the set screw snug, then add one and a half extra turns.
6. Trim the excess cable to about 6 inches and insert it into the drum.
7. Repeat on the left side.
8. If using drum wraps, slide and snap them into place until they click securely.

Step 5: Wind the Springs

1. Place vise clamps on both vertical tracks above the third roller to prevent the door from rising.
2. Use a ratchet with a 5/8-inch socket to wind the springs, starting on the right side.
3. Turn the pawl knob up and rotate counterclockwise to add turns. Mark the shaft to count your turns.
4. After two to three turns, stop and check cable tension on the left side.
5. Once both sides are even, finish winding both sides to the required number of turns for your door height. For an 8 ft door, this is typically 18 turns.
6. Move the pawl knob down to lock the ratchet.

Step 6: Balance the Door

1. Remove the vise clamps.
2. Lift the door halfway.
3. If the door rises by itself, remove turns. If it is heavy to lift, add turns.
4. Always move the pawl knob up before making adjustments.
5. A balanced door should stay in place when lifted halfway. This indicates correct tension.
6. Ensure everything is tight and cables are aligned before reconnecting your opener.

OPERATING YOUR GARAGE DOOR

After successful installation and balancing, your garage door should operate smoothly. Test the door manually first, ensuring it moves freely and stays in place when partially open. Then, reconnect your garage door opener and test its operation. The door should open and close without excessive strain on the opener.

MAINTENANCE

Regular maintenance helps prolong the life of your garage door system and ensures safe operation:

- **Lubrication:** Lubricate all moving parts, including rollers, hinges, and springs, with a silicone-based lubricant annually.
- **Inspection:** Periodically inspect springs, cables, rollers, and tracks for signs of wear, damage, or corrosion.

- **Balance Check:** Test the door balance annually by disconnecting the opener and manually lifting the door halfway. It should remain stationary. Adjust spring tension if necessary (refer to installation steps).
- **Clean Tracks:** Keep tracks free of dirt and debris.

TROUBLESHOOTING COMMON ISSUES

- **Door is heavy or won't stay open:** Spring tension is too low. Add turns to the springs (refer to Step 5).
- **Door flies open or bounces:** Spring tension is too high. Remove turns from the springs (refer to Step 5).
- **Noisy operation:** Lubricate moving parts. Check for loose hardware or worn rollers.
- **Cables appear loose or frayed:** Immediately stop using the door and contact a professional. Do not attempt to operate the door.

PRODUCT SPECIFICATIONS

Feature	Detail
Brand	WAYNE DALTON
Model Number	WD-TMS3659-UPKIT
Item Weight	12.01 pounds
Size	For 8 ft high doors, balanced weight between 110 - 119lbs - Double spring set
Material	Metal
ASIN	B08M6JXVC4
Date First Available	October 30, 2020

WARRANTY AND SUPPORT

Specific warranty details for the Wayne Dalton Torquemaster Plus Spring Upgrade Kit are not provided in this manual. For warranty information, technical support, or to purchase replacement parts, please contact WAYNE DALTON directly or refer to their official website. Always provide your model number (WD-TMS3659-UPKIT) and purchase date when seeking support.