

"REMOVING THE OLD DOOR / PREPARING THE OPENING"

Supplemental Installation Instructions

Read the instructions carefully before attempting door installation. The main installation instructions and owners manual **MUST** accompany these supplemental instructions. If there is none, contact Wayne-Dalton Corp. for a free copy **BEFORE** attempting installation. If you have an existing door, follow the instructions below to identify which counterbalance removal is necessary. If you are not removing an existing door, proceed to PREPARING THE OPENING.

The process of removing an existing door begins by identifying its counterbalance system. Generally, you will find three (3) types of springing systems. These are extension, the Wayne-Dalton exclusive TorqueMaster™, and torsion counterbalance system.

⚠ WARNING!

IF YOUR COUNTERBALANCE SYSTEM IS OTHER THAN THOSE MENTIONED, DO NOT ATTEMPT TO WORK ON IT, BUT HAVE A QUALIFIED DOOR AGENCY PERFORM THE WORK. OTHERWISE, SERIOUS INJURY OR DEATH COULD RESULT.

⚠ WARNING!

DISCONNECT AND REMOVE ANY ELECTRIC OPENER PRIOR TO REMOVAL OF COUNTERBALANCE SYSTEM TO PREVENT UNINTENDED DOOR OPERATION. OTHERWISE, SERIOUS INJURY OR DEATH COULD RESULT.

EXTENSION SPRING REMOVAL

If you are removing an extension spring system, cautiously perform the following steps.

STEP 1 - Raise the door to the fully open position and clamp locking pliers to the back legs of both vertical tracks, below the bottom rollers to prevent the door from falling. By opening the door you release most of the spring tension. Carefully unfasten the S-hook from the horizontal angle. Remove the cable, sheave and extension spring. Repeat for the other side. If safety cables are running through the extension springs, remove them also. Remove parts from work area.

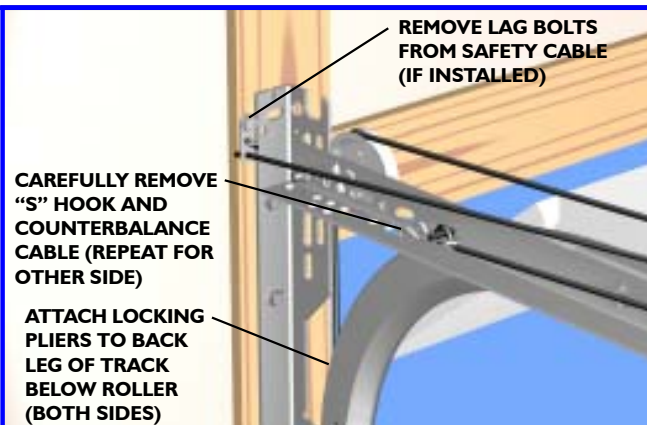
⚠ WARNING!

COUNTERBALANCE SPRING TENSION MUST BE RELIEVED BEFORE REMOVING ANY HARDWARE. A POWERFUL SPRING RELEASING IT'S ENERGY SUDDENLY CAN CAUSE SERIOUS, EVEN FATAL INJURY.

STEP 2 - Holding the door in the open position, remove the locking pliers and prepare to lower the door. Lowering the door requires assistance since you will be supporting its entire weight, which can be up to 200 pounds for single and up to 400 pounds for double wide doors.

⚠ WARNING!

IF YOU HAVE BACK PROBLEMS, DO NOT ATTEMPT THIS.



STEP 3 - With adequate assistance, carefully lower the door, by grasping the door firmly by its lift handles. Do not place fingers or hands near joints, between sections, or between bottom of door and floor. Otherwise, serious injury could result.

TorqueMaster™ SPRING REMOVAL

Should it ever become necessary to remove a TorqueMaster™ counterbalance system, cautiously perform the following steps.

STEP 1 - Raise the door to the fully open position and clamp locking pliers to the back legs of both vertical tracks, below the bottom rollers to prevent the door from falling. By opening the door you release most of the spring tension. Position yourself to the side and carefully cut the counterbalance cables close to the cable drums (spring assembly will briefly discharge for a few seconds) on both sides.

⚠ WARNING!

THE GARAGE DOOR MUST BE RAISED TO THE FULLY OPEN POSITION BEFORE CUTTING THE COUNTERBALANCE CABLES.

⚠ WARNING!

COUNTERBALANCE SPRING TENSION MUST BE RELIEVED BEFORE REMOVING ANY HARDWARE. A POWERFUL SPRING RELEASING IT'S ENERGY SUDDENLY CAN CAUSE SERIOUS, EVEN FATAL INJURY.

STEP 2 - Holding the door in the open position, remove the locking pliers and prepare to lower the door. Lowering the door may require assistance since you will be supporting its entire weight, which can be up to 225 pounds.

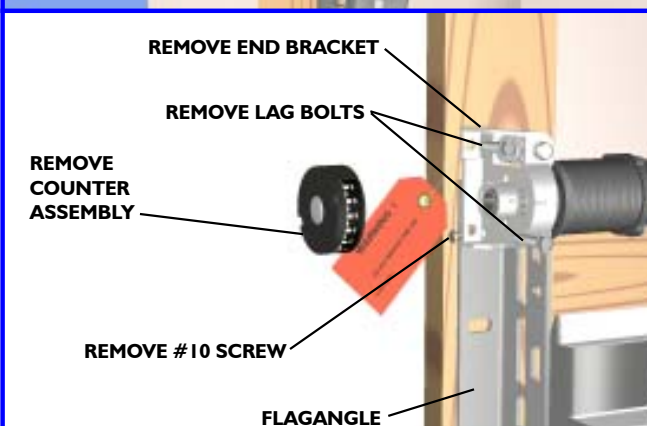
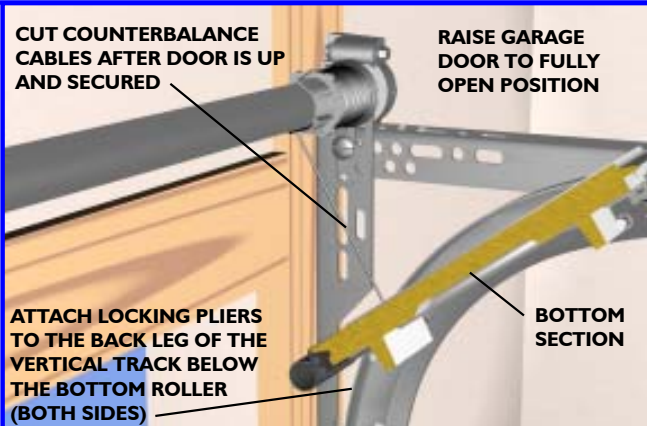
⚠ WARNING!

IF YOU HAVE BACK PROBLEMS, DO NOT ATTEMPT THIS.

STEP 3 - With adequate assistance, carefully lower the door, by grasping the door firmly by its lift handles. Do not place fingers or hands near joints, between sections, or between bottom of door and floor. Otherwise, serious injury could result.

STEP 4 - Using a screwdriver, pry the counter assembly off. Remove the two (2) lag bolts and one (1) #10 metal screw from the end bracket and pull the end bracket off. Repeat for the other side.

STEP 5 - Remove the two (2) lag bolts attaching the center bracket assembly to the header board. Lift the TorqueMaster™ spring assembly off the flagangles and out of the doorway. Unhook the counterbalance cables from the bottom brackets and remove all parts from the work area.



TORSION SPRING REMOVAL

The following steps are required to remove a torsion spring system. Do not release the torsion spring tension unless you are qualified and experienced, but have a professional door agency release the tension.

STEP 1 - Close the door and clamp locking pliers to the back legs of both vertical tracks, above the third roller to prevent the door from lifting as you unwind the springs. Use only approved winding bars available from your dealer. Do not use undersized steel rods, screw drivers or anything else to unwind the springs. Position the ladder just off to the side of the winding cone. The winding cone should be easy to reach without putting your body directly in front of it.

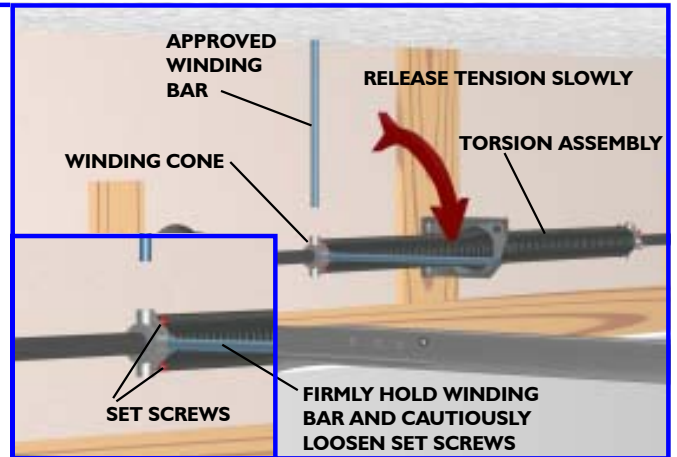
⚠ WARNING!
COUNTERBALANCE SPRING TENSION MUST BE RELIEVED BEFORE REMOVING ANY HARDWARE. A POWERFUL SPRING RELEASING IT'S ENERGY SUDDENLY CAN CAUSE SERIOUS, EVEN FATAL INJURY.

⚠ WARNING!
FAILURE TO USE APPROVED WINDING BARS CAN CAUSE SPRING ENERGY TO BE RELEASED SUDDENLY, RESULTING IN SEVERE INJURY OR DEATH.

STEP 2 - Insert a winding bar into one of the holes in the winding cone. Exert upward pressure. Using caution, loosen the two (2) set screws in the winding cone. Be prepared to support the full torsional force of the spring when the set screws are loosened.

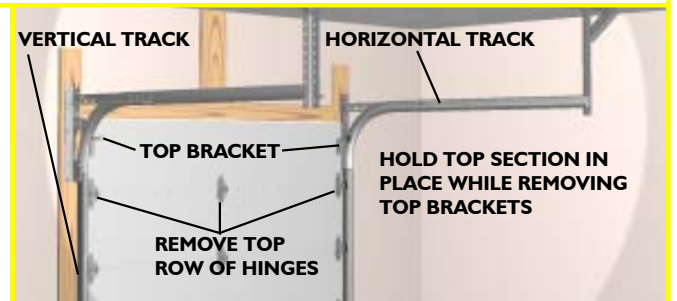
STEP 3 - Once set screws are loose, slowly and carefully lower the winding rod until it rests against the door. Insert other winding bar into the upper hole. Push up and remove lower bar. Carefully lower upper winding bar until it rests against the door. Repeat process until all tension is relieved. If your door is equipped with two (2) torsion springs, follow the same procedure to relieve tension on the second spring.

STEP 4 - Remove locking pliers from tracks, unbolt torsion shaft assembly and remove from work area.



DOOR REMOVAL

Having removed the counterbalance system, the door can now be disassembled. Start by first removing the top row of center hinge(s). With assistance, hold the top section to keep it from falling and remove the top brackets. With assistance, lift the top section out of the opening and remove it from the work area. Repeat for all remaining sections. After door is disassembled, unbolt both track assemblies from the jambs and remove all material from the work area. You can neatly dispose of the old door by placing it in the carton of your new door. Clean up area and prepare to install the new door.



PREPARING THE OPENING

The inside of your garage door opening should be framed with wood jambs and header board. It is recommended that 2" x 6" lumber be used as illustrated. The jambs must be plumb and the header board level. The jambs should extend a minimum of 12" (305 mm) above the top of the opening for TorqueMaster™ and extension spring applications and 14" (356 mm) for torsion spring. For low headroom applications, the jambs should extend to the ceiling height. Minimum side clearance required, from the opening to the wall, is 3-1/2" (89 mm).

The jambs and header board must be securely fastened to sound framing members. Do not place jambs and header board over drywall, paneling, etc. Heads of fasteners must be flush or below jamb and header board surface, so they do not interfere with installation or operation of new door.

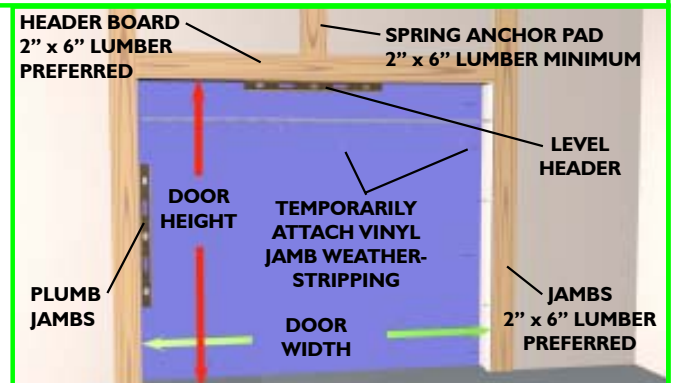
For TorqueMaster™ and torsion spring applications, a wood spring anchor pad must be firmly attached to the wall, above the header board at the center of the opening. The spring anchor pad must be of 2" x 6" lumber minimum (Select southern yellow pine lumber. Do not use lumber marked as spruce-pine-fur or SPF.). The spring anchor pad must be securely attached to block or concrete wall with four (4) 3/8" masonry anchors or four (4) 5/16" x 4" lag screws for a wood structure. Holes must be drilled in the pad to avoid splitting the lumber. Do not attach spring anchor pad with nails.

⚠ WARNING!
FAILURE TO SECURELY ATTACH SPRING ANCHOR PAD COULD CAUSE SPRINGS TO VIOLENTLY PULL SPRING ANCHOR PAD FROM WALL, CAUSING SERIOUS INJURY OR DEATH.

If you have just removed an old door, closely inspect the jambs, header board and spring anchor pad. Any wood found to be not sound, must be replaced.

Cut three (3) pieces of vinyl jamb weather-stripping (not supplied) to fit the sides and top of the opening. Align the jamb seals with the inside edge of the opening. Temporarily nail the jamb seals to the face of the opening to keep the bottom section from falling out of the opening during installation

NOTE: Do not permanently attach vinyl jamb weather-stripping at this time.



HEADROOM REQUIREMENT - Headroom is defined as the space needed above the top of the door for tracks, springs, etc. to allow the door to open properly. If the door is to be motor operated, 2-1/2" (64 mm) of additional headroom is required.

TRACK TYPE	TorqueMaster™	Extension	Torsion
15" Radius track	11-3/4" (299 mm)	11-3/4" (299 mm)	14" (356 mm)
12" Radius track	10-1/2" (267 mm)	10-1/2" (267 mm)	12-1/2" (318 mm)
6" LHR Kit†	6" (152 mm)	6" (152 mm)	6" (152 mm)

†NOTE: 6" LHR Conversion Kit is available for 12" Radius only. Contact your local Wayne-Dalton dealer.

BACKROOM REQUIREMENT - Backroom is defined as the distance needed from the opening back into the garage to allow the door to open fully.

DOOR HEIGHT	TRACK	MANUAL LIFT	MOTOR OPERATED
6'5", 6'6", 7'0"	12", 15" Radius	98" (2489 mm)	120" (3048 mm)
7'6", 8'0"	12", 15" Radius	110" (2794 mm)	132" (3353 mm)