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Converting

TORQUE MASTER® ONE

Over To TorqueMaster® Plus

 MH

INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL

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PLEASE DO NOT RETURN THIS PRODUCT TO THE STORE

Please Do Not Return This Product To The Store. Please call 1-866-569-3799 (Press Option 1) and follow the prompts to contact the appropriate customer service agent. They will be happy to handle any questions that you may have.

IMPORTANT NOTICES!

Operation And Maintenance

Wayne Dalton highly recommends that you read and fully understand the Installation Instructions and Owner's Manual before you attempt this installation.

To avoid possible injury, read the enclosed instructions carefully before installing and operating the garage door. Pay close attention to all warnings and notes. After installation is complete, fasten this manual near garage door for easy reference.

The complete Installation Instructions and Owner's Manual are available at no charge from:

Wayne Dalton, a Division Of Overhead Door Corporation,

P.O. Box 67, Mt. Hope, OH., 44660, Or Online At www.Wayne-Dalton.com



Important Safety Instructions



DEFINITION OF KEY WORDS USED IN THIS MANUAL:

△ WARNING

INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH; IF NOT AVOIDED. COULD RESULT IN SEVERE OR FATAL INJURY.



CAUTION: PROPERTY DAMAGE OR INJURY CAN RESULT FROM FAILURE TO FOLLOW INSTRUCTIONS.

IMPORTANT: REQUIRED STEP FOR SAFE AND PROPER DOOR OPERATION.

NOTE: Information assuring proper installation of the door.

READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING INSTALLATION. IF IN QUESTION ABOUT ANY OF THE PROCEDURES, DO NOT PERFORM THE WORK. INSTEAD, HAVE A TRAINED DOOR SYSTEMS TECHNICIAN DO THE INSTALLATION OR REPAIRS.

- 1. READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
- 2. Wear protective gloves during installation to avoid possible cuts from sharp metal edges.
- It is always recommended to wear eye protection when using tools, otherwise eye injury could result.
- Avoid installing your new door on windy days. Door could fall during the installation causing severe or fatal injury.
- Doors 12'-0" wide and over should be installed by two persons, to avoid possible injury.
- **6.** Operate door only when it is properly adjusted and free from obstructions.
- 7. If a door becomes hard to operate, inoperative or is damaged, immediately have necessary adjustments and/ or repairs made by a trained door system technician using proper tools and instructions.
- DO NOT stand or walk under a moving door, or permit anybody to stand or walk under an electrically operated door.
- DO NOT place fingers or hands into open section joints when closing a door. Use lift handles/ gripping points when operating door manually.
- **10.** DO NOT permit children to operate garage door or door controls. Severe or fatal injury could result should the child become entrapped between the door and the floor.
- 11. Due to constant extreme spring tension, do not attempt any adjustment, repair or alteration to any part of the door, especially to springs, spring brackets, bottom corner brackets, fasteners, counterbalance lift cables or supports. To avoid possible severe or fatal injury, have any such work performed by a trained door systems technician using proper tools and instructions.
- **12.** On electrically operated doors, pull down ropes must be removed and locks must be removed or made inoperative in the open (unlocked) position.
- Top section of door may need to be reinforced when attaching an electric opener. Check door and/ or opener manufacturer's instructions.
- **14.** Visually inspect door and hardware monthly for worn and or broken parts. Check to ensure door operates freely.
- Test electric opener's safety features monthly, following opener manufacturer's instructions.
- 16. NEVER hang tools, bicycles, hoses, clothing or anything else from horizontal tracks. Track systems are not intended or designed to support extra weight.
- 17. This door may not meet the building code wind load requirements in your area. For your safety, you will need to check with your local building official for wind load code requirements and building permit information.

After installation is complete, fasten this manual near the garage door.

IMPORTANT: STAINLESS STEEL OR PT2000 COATED LAG SCREWS MUST BE USED WHEN INSTALLING CENTER BEARING BRACKETS, END BRACKETS, JAMB BRACKETS, DRAWBAR OPERATOR MOUNTING/SUPPORT BRACKETS AND DISCONNECT BRACKETS ON TREATED LUMBER (PRESERVATIVE-TREATED). STAINLESS STEEL OR PT2000 LAG SCREWS ARE NOT NECESSARY WHEN INSTALLING PRODUCTS ON UN-TREATED LUMBER.

NOTE: It is recommended that 5/16" lag screws are pilot drilled using a 3/16" drill bit, prior to fastening.

IMPORTANT: WHEN INSTALLING 5/16" LAG SCREWS USING AN ELECTRIC DRILL/ DRIVER, THE DRILL/ DRIVERS CLUTCH MUST BE SET TO DELIVER NO MORE THAN 200 IN-LBS OF TORQUE. FASTENER FAILURE COULD OCCUR AT HIGHER SETTINGS.

⚠ WARNING

PRIOR TO WINDING OR MAKING ADJUSTMENTS TO THE SPRINGS, ENSURE YOU'RE WINDING IN THE PROPER DIRECTION AS STATED IN THE INSTALLATION INSTRUCTIONS. OTHERWISE, THE SPRING FITTINGS MAY RELEASE FROM SPRING IF NOT WOUND IN THE PROPER DIRECTION AND COULD RESULT IN SEVERE OR FATAL INJURY.

IMPORTANT: RIGHT AND LEFT HAND IS ALWAYS DETERMINED FROM INSIDE THE BUILDING LOOKING OUT.



Power drill	Flat tip screwdriver	Tape measure
Drill bits: 1/8", 3/16", 9/32", 7/16", 1/2"	Pliers / Wire cutters	Step ladder
Ratchet wrench	Needle nose pliers	Level
Socket driver: 7/16"	Locking pliers	Pencil
Sockets: 7/16", 1/2", 9/16", 5/8"	(2) Vice clamps	Saw horses
Socket extension: 3"	Wrenches: 7/16", 1/2", 9/16", 5/8"	Leather gloves



Phillips head screwdriver

Package Contents

Hammer



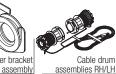


Safety glasses



Right hand end bracket





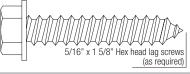










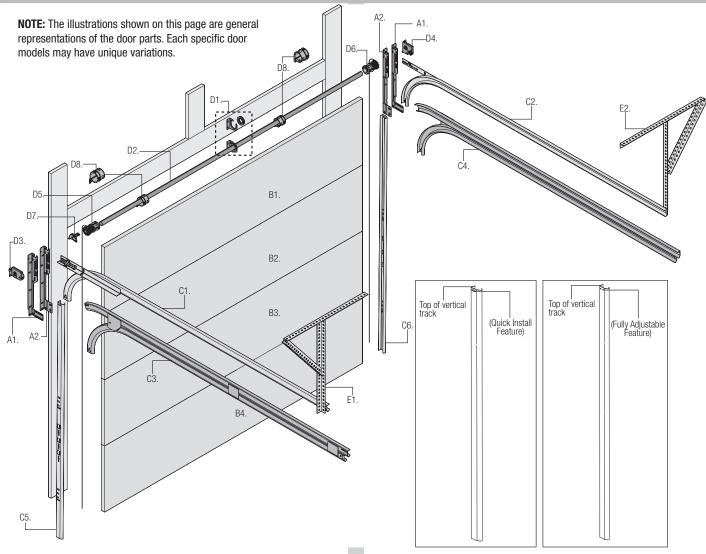


Preparing the Opening



 $\mbox{\bf IMPORTANT:}$ IF YOU JUST REMOVED YOUR EXISTING DOOR OR YOU ARE INSTALLING A NEW DOOR, COMPLETE ALL STEPS IN PREPARING THE OPENING.

PARTS BREAKDOWN



A. FLAG ANGLES:

- A1. Quick Install (Q.I.) Flag Angles
- A2. Fully Adjustable (F.A.) Flag Angles

B. EXISTING STACKED SECTIONS:

- B1. Top Section
- B2. Intermediate(s) Section
- B3. Lock Section
- B4. Bottom Section

C. EXISTING TRACKS:

- C1. Left Hand Standard Lift Horizontal Track Assembly
- C2. Right Hand Standard Lift Horizontal Track Assembly
- C3. Left Hand Low Headroom Horizontal Track Assembly
- C4. Right Hand Low Headroom Horizontal Track Assembly
- C5. Left Hand Vertical Track
- C6. Right Hand Vertical Track

D. TORQUEMASTER PLUS® SPRING ASSEMBLY:

- D1. Center Bracket Bushing Assembly
- D2. TorqueMaster® Spring Tube (Single Or Double Springs) (Purchased separately)
- D3. Left Hand End Bracket (Double Springs Only)
- D4. Right Hand End Bracket (Disconnect Cable Guide)
- D5. Left Hand Cable Drum Assembly
- D6. Right Hand Cable Drum Assembly
- D7. Idler bracket (Single Spring Only)
- D8. Left Hand And Right Hand Drum Wraps (Optional)

E. EXISTING REAR BACK HANGS:

- E1. Left Hand Rear Back Hang Assemblies
- E2. Right Hand Rear Back Hang Assemblies



INSTALLATION



Before installing your door, be certain that you have read and followed all of the instructions covered in the pre-installation section of this manual. Failure to do so may result in an improperly installed door.

NOTE: Reference TDS 160 for general garage door terminology at www.dasma.com.



Removing Old TorqueMaster® One Counterbalance System



Unwinding Old TorqueMaster® Spring(s)

Tools Required: Power drill, 7/16" Socket driver, 7/16" Wrench, Step ladder, Flat tip screwdriver, Safety glasses, Leather gloves

A TorqueMaster® spring system can be identified by the end brackets.

FOR SINGLE SPRING APPLICATIONS: The right hand end bracket will always have a drive gear, counter gear, counter cover, and a winding bolt head. The left hand end bracket will have no gears, counter cover, or winding bolt head. The hole for the winding bolt head will be plugged.

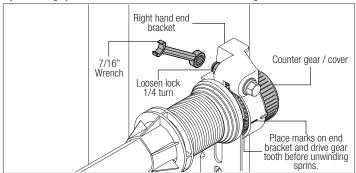
FOR DOUBLE SPRINGS APPLICATIONS: Both the right hand and left hand end brackets will always have a drive gear, counter gear, counter cover and a winding bolt head.

IMPORTANT: RIGHT HAND AND LEFT HAND IS ALWAYS DETERMINED FROM INSIDE THE BUILDING LOOKING OUT.

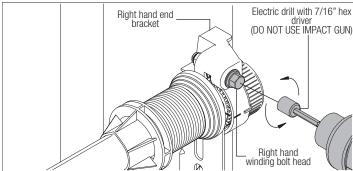
FIRST IDENTIFY WHICH COUNTER COVER YOU HAVE:

If you have a black counter cover: Place a mark on the drive gear tooth and an adjacent mark on the right hand end bracket. Loosen the lock nut 1/4 turn using a 7/16" wrench.

If you have a gray counter cover: Loosen the lock nut 1/4 turn using a 7/16" wrench.



Using an electric drill (High torque / gear reduced to 1300 rpm preferred) with a 7/16" hex head driver, unwind the right hand winding bolt head counterclockwise and count the number of turns the mark on the drive gear passes the adjacent mark on the end bracket. Reference the winding spring turn chart below, by door height. Stop unwinding the spring once the counted turns have reached the listed number of turns.



WINDING SPRING TURN CHART	
DOOR HEIGHT	SPRING TURNS
6'-0"	14
6'-3"	14-1/2
6'-5"	15
6'-6"	15
6'-8"	15-1/2
6'-9"	15-1/2

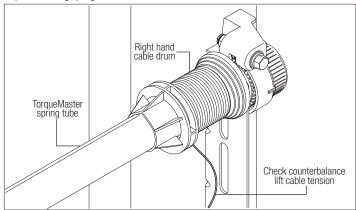
WINDING SPRING TURN CHART	
7'-0"	16
7'-3"	16-1/2
7'-6"	17
7'-9"	17-1/2
8'-0"	18

CAUTION: DO NOT USE IMPACT GUN TO UNWIND SPRINGS.

IMPORTANT: DO NOT REFERENCE THE COUNTER COVER WHEN COUNTING THE NUMBER OF TURNS BEING UNWOUND ON THE SPRING, BUT FOLLOW THE INSTRUCTIONS ABOVE.

Verify that spring tension has been released by pulling the counterbalance lift cable on the right hand cable drum away from the header. If spring tension has been released, the counterbalance lift cable will be loose. In addition, the TorqueMaster® spring tube should be free to rotate in either direction.

If the counterbalance lift cable is still taut and the TorqueMaster® spring tube is difficult to rotate, that is an indication that spring tension still exists on the left hand spring. Repeat this step for releasing spring tension on the left hand side.

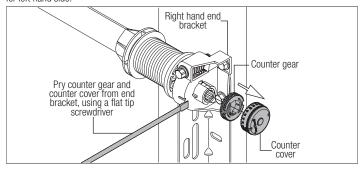


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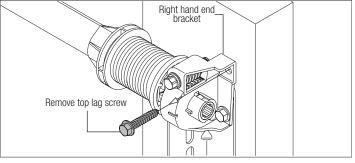
Removing Old End Brackets

Tools Required: Power drill, 7/16" Socket driver, 7/16" Wrench, Step ladder, Flat tip screwdriver, Phillips head screwdriver, Safety glasses, Leather gloves

Using a flat tip screwdriver, pry the counter gear and counter cover from the right hand end bracket. Discard the counter gear and counter cover. On double spring applications, repeat for left hand side.

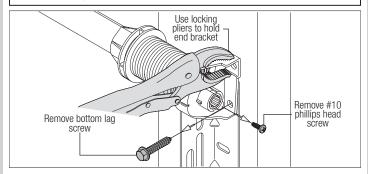


Remove the upper $5/16" \times 1-5/8"$ lag screw from the right hand end bracket. Attach locking pliers to the upper portion of the end bracket and hold the housing steady while removing the lower $5/16" \times 1-5/8"$ lag screw and $#10 \times 1/2"$ phillips head screw from the end bracket.

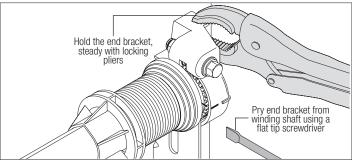


Holding the right hand end bracket steady with locking pliers, carefully pry the end bracket and drive gear off the winding shaft using a flat tip screwdriver.

CAUTION: THE WINDING SHAFT MAY ROTATE WHEN REMOVING THE END BRACKET AND DRIVE GEAR.



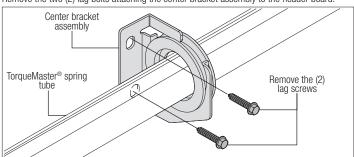
Repeat for the left hand side. Holding the left hand end bracket steady with locking pliers, carefully pry the end bracket off the winding shaft using a flat tip screwdriver.



Removing Old Cable Drums

Tools Required: Power drill, 7/16" Socket driver, 7/16" Wrench, Step ladder, Flat tip screwdriver, Phillips head screwdriver, Safety glasses, Leather gloves

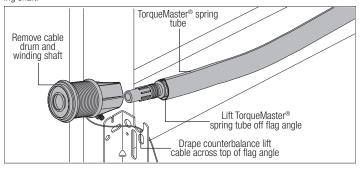
Remove the two (2) lag bolts attaching the center bracket assembly to the header board.



Lift the right hand side of the TorqueMaster® spring tube and slide the cable drum off. Realign the groove in the winding shaft with the round notch in the flag angle and drape the counterbalance lift cable with drum over the flag angle. Lift the left hand side of the TorqueMaster® spring tube and slide the cable drum and winding shaft off. Drape the counterbalance lift cable with drum over the flag angle. Lift the TorqueMaster® spring assembly off the flag angles and out of the doorway. Unhook the counterbalance lift cables from the bottom corner brackets and remove all parts from the work area.

NOTE: The cable drums may be difficult to remove. If so, twist the cable drum to aid in removal.

NOTE: Single spring applications will have no spring on the left hand side, only a loose winding shaft.



Inspecting Old Flag Angles



Inspecting Old Flag Angles

Tools Required: Tape measure, Safety glasses, Leather gloves

For 12" Radius, the flag angles must be replaced if the rectangular hole is not present.

For 15" Radius or Low Headroom, the flag angles must be replaced if the length does not match the length in the chart. No need to verify flag angle length for 12"R.

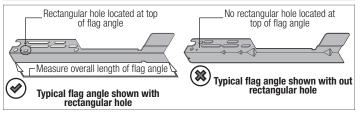
Flag Angle Length For 15" Radius or Low Headroom	
Quick Install Track (Q.I.)	Fully Adjustable Track (F.A.T.)
20.344"	19.946"

NOTE: If the flag angles do not need replaced, proceed to Section Installing New TorqueMaster® Plus Counterbalance System.

NOTE: If the flag angles will need to be replaced, proceed with the current steps shown below.

△ WARNING

FAILURE TO INSPECT AND RE-PLACE THE OLD FLAG ANGLES, AS STATED IN THIS STEP, WILL CAUSE THE TORQUEMASTER® PLUS COUNTERBALANCE SYSTEM TO BIND AND ALLOW THE DOOR NOT TO OPERATE SMOOTHLY. THIS MAY CAUSE DAMAGE TO THE DOOR, THE DOOR'S COMPONENTS AND CAN CAUSE SEVERE OR FATAL INJURY.

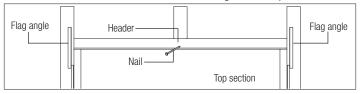


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Securing Top Section

Tools Required: Step ladder, Hammer, Safety glasses, Leather gloves

Having removed the counterbalance system, temporarily secure the top section by driving a nail into the header near the center of the door and bending it over the top section.



6

Removing Existing Horizontal Tracks

Tools Required: Ratchet wrench, 9/16" Socket, 9/16" Wrench, level, Step ladder, Safety glasses, Leather gloves

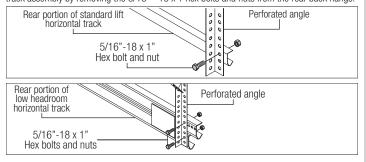
NOTE: Horizontal tracks must be removed in order to remove the flag angles.

NOTE: Refer to Parts Breakdown to determine if you have either Standard Lift or Low Head-room Horizontal Track.

NOTE: Depending on your door configuration, it is suggested to keep all of the fasteners after removing the following components. You may or may not have to re-use the fasteners later.

IF YOU HAVE QUICK INSTALL FLAG ANGLES, COMPLETE THIS STEP:

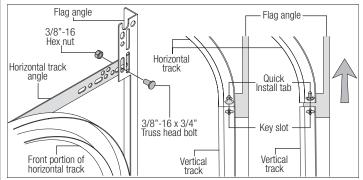
With assistance and starting on the left hand side, un-install the rear portion of the horizontal track assembly by removing the 5/16" - 18 x 1 hex bolts and nuts from the rear back hangs.



FOR STANDARD LIFT HORIZONTAL TRACKS:

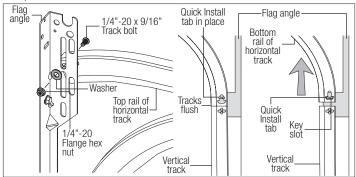
Next, un-install the front portion of the horizontal track assembly by removing the (1) 3/8" - $16 \times 3/4$ " truss head bolt and (1) 3/8" - 16 hex nut. Carefully lift the curved end of the horizontal track assembly up and over the top track roller of the top section.

Set the horizontal track assembly and fasteners aside. Repeat the same process for the right hand side.



FOR LOW HEADROOM HORIZONTAL TRACKS:

Next, un-install the front portion of the horizontal track assembly by removing the (1) 1/4" - $20 \times 9/16$ " track bolt, (1) 1/4" - 20 flange hex nut and the 5/16 washer from the top rail. Carefully lift the top rail of the horizontal track assembly up and over the top track roller of the top section.



△ WARNING

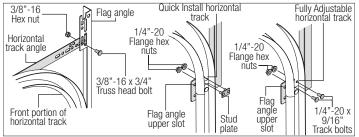
DO NOT RAISE DOOR UNTIL HORIZONTAL TRACKS ARE RE-SECURED AT REAR, AS OUTLINED IN STEP, REAR BACK HANGS OR DOOR COULD FALL FROM OVERHEAD POSITION CAUSING SEVERE OR FATAL INJURY.

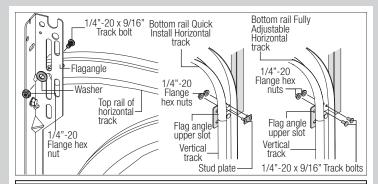
IF YOU HAVE FULLY ADJUSTABLE FLAG ANGLES, COMPLETE THIS STEP:

Un-install the front portion of the horizontal track assembly by removing the (1) 3/8" - $16 \times 3/4$ " truss head bolt and (1) 3/8" - $16 \times 3/4$ " truss head bolt and (1) 3/8" - $16 \times 3/4$ " truss head bolt and (2) 3/4" - 3/4" truss head bolt and (2) 3/4" - 3/4" truck assembly by removing the stud plate or the (2) 3/4" - 3/4" truck bolts and (2) 3/4" - 3/4" - 3/4" truck bolts and (2) 3/4" truck bolts and (2) 3/4" - 3/4" truck bolts and (2) 3/4" truck bolts and (2) 3/4" truck bolts and (3) 3/4" truck bolts and (2) 3/4" truck bolts and (3) 3/4" tr

Carefully lift the top rail of the horizontal track assembly up and over the top track roller of the top section.

Set the horizontal track assembly and fasteners aside. Repeat the same process for the right hand side.





∧ WARNING

DO NOT RAISE DOOR UNTIL HORIZONTAL TRACKS ARE SECURED AT REAR, AS OUTLINED IN STEP, REAR BACK HANGS, OR DOOR COULD FALL FROM OVERHEAD POSITION CAUSING SEVERE OR FATAL INJURY.

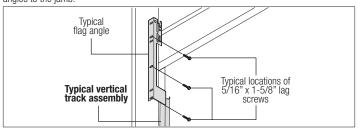


Removing Old Flag Angles

Tools Required: Power drill, 7/16" Socket driver, 7/16" Wrench, Step ladder, Safety glasses, Leather gloves

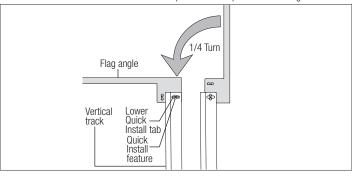
NOTE: Depending on your door configuration, it is suggested to keep all of the fasteners after removing the following components. You may or may not have to re-use the fasteners later.

Starting on the left hand side, remove the $5/16" \times 1-5/8"$ lag screws, securing the flag angles to the jamb.



IF YOU HAVE QUICK INSTALL FLAG ANGLES:

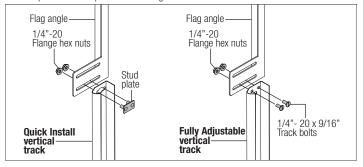
Rotate the Quick Install flag angle 1/4 turn downward to un-lock it from the vertical track. Remove the lower Quick Install tab from the left hand Quick Install flag angle in the Quick Install feature of the left hand vertical track. Repeat the same process for the right hand side.



IF YOU HAVE FULLY ADJUSTABLE FLAG ANGLES:

If you have Quick Install vertical tracks, remove the stud plate and the (2) 1/4"–20 flange hex nuts from the left hand flag angle connecting to the left hand vertical track. Repeat for the other side.

If you have Fully Adjustable vertical tracks, remove the (2) 1/4"-20 x 9/16" track bolts and the (2) 1/4"-20 flange hex from the left hand flag angle connecting to the left hand vertical track. Repeat the same process for the right hand side.



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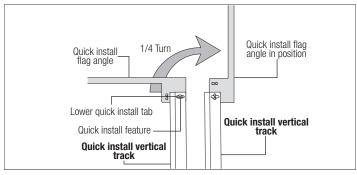
Installing New Flag Angles

Tools Required: Power drill, 7/16" Socket driver, 7/16" Wrench, Step ladder, Safety glasses, Leather gloves

NOTE: Flag angles are right and left handed.

IF YOU HAVE QUICK INSTALL FLAG ANGLES:

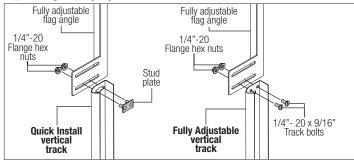
Place the lower Quick Install tab of the left hand flag angle in the Quick Install feature of the left hand Quick Install vertical track. Give the flag angle 1/4 turn to lock in place. Repeat for other side.



IF YOU HAVE FULLY ADJUSTABLE FLAG ANGLES:

If you have Quick Install vertical tracks, hand tighten the left hand flag angle to the left hand vertical track using (1) stud plate and (2) 1/4" - 20 flange hex nuts. Repeat for the other side.

If you have Fully Adjustable vertical tracks, hand tighten the left hand flag angle to the left hand vertical track using (2) 1/4" - 20 x 9/16" track bolts and (2) 1/4" - 20 flange hex nuts. Repeat for other side. Flange nuts will be secured after flag angle spacing is completed in step, Securing New Flag Angles.





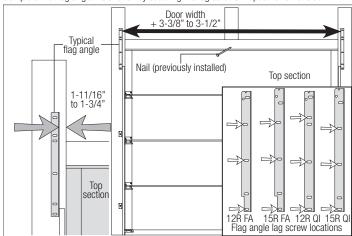
Securing New Flag Angles

Tools Required: Power drill, 7/16" Socket driver, 7/16" Wrench, Step ladder, Hammer, Tape measure, Safety glasses, Leather gloves

Vertical track alignment is critical. Position flag angle between 1-11/16" (43 mm) to 1-3/4" (44 mm) from the edge of the door. Flag angles must be parallel to the door sections. Repeat same process for other side.

IMPORTANT: THE DIMENSION BETWEEN THE FLAG ANGLES MUST BE DOOR WIDTH PLUS 3-3/8" (86MM) TO 3-1/2" (89 MM) FOR SMOOTH, SAFE DOOR OPERATION.

Complete the flag angle installation by securing the lag screws. Repeat for other side.



10

Re-Attaching Horizontal Tracks

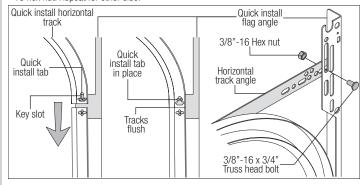
Tools Required: Power drill, 7/16" Socket driver, Ratchet wrench, 9/16" Socket, 7/16"/9/16" Wrench, Step ladder, Hammer, Tape measure, Level, Safety glasses, J eather gloves

NOTE: If you have Quick Install flag angles, complete this step.

NOTE: Refer to Package Contents and or Parts Breakdown to determine if you have either Standard Lift Horizontal Tracks, Low Headroom Horizontal Track, Quick Install flag angles or Fully Adjustable flag angles.

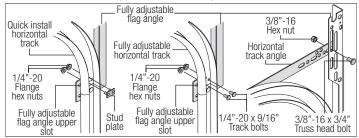
FOR STANDARD LIFT QUICK INSTALL HORIZONTAL TRACK:

To re-install the Quick Install Horizontal Track, place the curved end over the top track roller of the top section. Align the key slot of the Quick Install Horizontal Track with the Quick Install tab of the flag angle. Push the curved portion of Quick Install Horizontal Track downward to lock in place. Level the Quick Install Horizontal Track and bolt the horizontal track angle to the first encountered slot in the flag angle using (1) 3/8" - 16 x 3/4" truss head bolt and (1) 3/8" - 16 hex nut. Repeat for other side.



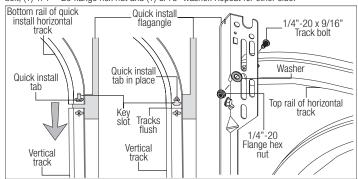
FOR STANDARD LIFT FULLY ADJUSTABLE HORIZONTAL TRACK:

To re-install Fully Adjustable Horizontal Track, place the top rail over the top track roller of the top section. Align the bottom rail of the Fully Adjustable Horizontal Track with the top of the vertical track. If you have Quick Install horizontal track, tighten the horizontal track to the flag angle with a stud plate and (2) 1/4" - 20 flange hex nuts. If you have Universal Horizontal Track, tighten the Fully Adjustable Horizontal Track to the flag angle with (2) 1/4" - 20 flange hex nuts. Level the Fully Adjustable Horizontal Track and bolt the horizontal track angle to the first encountered slot in the flag angle using (1) 3/8" - 16 x 3/4" truss head bolt and (1) 3/8" - 16 hex nut. Repeat for other side.



FOR LOW HEADROOM QUICK INSTALL HORIZONTAL TRACK:

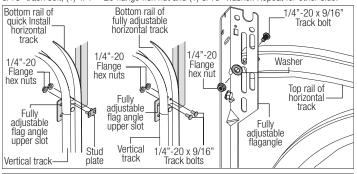
To re-install Low Headroom Quick Install Horizontal Track, place the top rail end over the top track roller of the top section. Align key slot of the bottom rail end of the Low Headroom Quick Install Horizontal Track with the Quick Install tab of the flag angle. Push curved portion of Low Headroom Quick Install Horizontal Track down to lock in place. Level the Low Headroom Quick Install Horizontal Track and bolt the top rail of the Low Headroom Quick Install Horizontal Track to the encountered slot in the flag angle using (1) 1/4" - 20 x 9/16" track bolt, (1) 1/4" - 20 flange hex nut and (1) 5/16" washer. Repeat for other side.



FOR LOW HEADROOM FULLY ADJUSTABLE HORIZONTAL TRACK:

To re-install Low Headroom Fully Adjustable Horizontal Track, place the top rail end over the top track roller of the top section. Align the bottom rail end of the Low Headroom Fully Adjustable Horizontal Track with the top of the vertical track. Depending on the door's configuration, either tighten the bottom rail of the horizontal track to the flag angle with (1) stud plate and (2) 1/4" - 20 flange hex nuts or tighten the bottom rail of the horizontal track to the flag

angle with (2) 1/4" - 20 x 9/16" track bolts and (2) 1/4" - 20 flange hex nuts. Level the Low Headroom Fully Adjustable Horizontal Track and bolt the top rail of the Low Headroom Fully Adjustable Horizontal Track to the encountered slot in the flag angle using (1) 1/4" - 20 x 9/16" track bolt, (1) 1/4" - 20 flange hex nut and (1) 5/16" washer. Repeat for other side.



⚠ WARNING

DO NOT RAISE DOOR UNTIL HORIZONTAL TRACKS ARE SECURED AT REAR, AS OUTLINED IN STEP, REAR BACK HANGS, OR DOOR COULD FALL FROM OVERHEAD POSITION CAUSING SEVERE OR FATAL INJURY.

Remove the nail that was temporarily holding the top section in place, installed in step, Securing Top Section.

IMPORTANT: FAILURE TO REMOVE NAIL BEFORE ATTEMPTING TO RAISE DOOR COULD CAUSE PERMANENT DAMAGE TO TOP SECTION.

NOTE: If an opener will be installed, position horizontal tracks slightly above level.





Installing New Cable Drum Assemblies

Tools Required: Safety glasses, Leather gloves, Step ladder image

NOTE: Refer to door section identification, located in the pre-installation section of this manual or refer to Parts Breakdown.

NOTE: Cable drum assemblies are marked right and left hand.

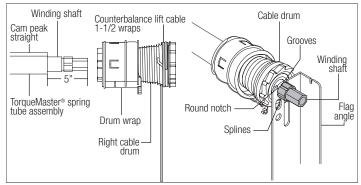
↑ WARNING

FAILURE TO ENSURE TIGHT FIT OF CABLE LOOP OVER MILFORD PIN COULD RESULT IN COUNTERBALANCE LIFT CABLE COMING OFF THE PIN, ALLOWING THE DOOR TO FALL, POSSIBLY RESULTING IN SEVERE OR FATAL INJURY.

Uncoil the counterbalance lift cables from the cable drum assemblies, making sure you place the left hand cable loop on the left hand milford pin of the bottom corner bracket and the right hand cable loop on the right hand milford pin of the bottom corner bracket. Hang cable drum assemblies over flag angles

NOTE: Check to ensure cable loops fits tightly over the milford pins.

IMPORTANT: MAKE SURE THE COUNTERBALANCE LIFT CABLE IS LOCATED BETWEEN THE TRACK ROLLERS AND THE DOOR JAMB.



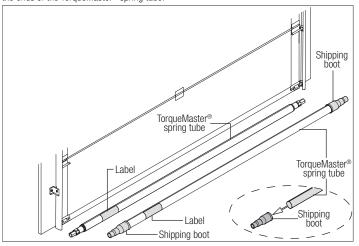
12

Installing New TorqueMaster® Plus Springs

Tools Required: Safety glasses, Leather gloves

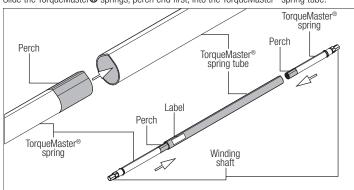
TorqueMaster® springs come lubricated and pre-assembled inside the TorqueMaster® spring tube. To prepare for install, lay the spring tube assembly on the floor, inside garage, in front of the door, and with the labeled end to the left. Next, remove the shipping boots from

the ends of the TorqueMaster® spring tube.



NOTE: If your TorqueMaster® springs did not come pre-assembled inside the TorqueMaster® spring tube, then follow these instructions.

Each TorqueMaster® spring is identified as to right hand and left hand, located on the perch. Slide the TorqueMaster® springs, perch end first, into the TorqueMaster® spring tube.

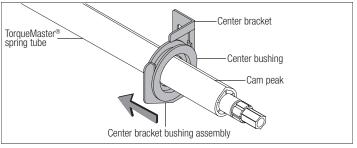


13

Install New Center Bracket Bushing Assembly

Tools Required: Step ladder, Safety glasses, Leather gloves

Being cam shaped, the center bushing only fits one way. Slide the center bracket bushing assembly towards the center of the TorqueMaster® spring tube, from the right side, as shown.



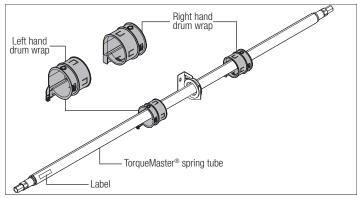
14

Drum Wraps (Optional)

Tools Required: Safety glasses, Leather gloves

NOTE: If you don't have drum wraps (optional), then skip this step. Refer to Package Contents / Parts Breakdown, to determine if you have drum wraps.

Drum wraps are marked right and left hand. Beginning with the left hand side, slide the left hand drum wrap onto the TorqueMaster® spring tube. Repeat for the right hand side. The drum wrap will be secured later, in Step, Securing Drum Wraps.



Installing New Cable Drum Assemblies
Tools Required: Tape measure, Step ladder, Safety glasses, Leather gloves

Shake the TorqueMaster® spring tube assembly gently to extend the winding shafts out about 5" on each side. For **single spring applications**, there will be no left hand spring in the TorqueMaster® spring tube assembly. Lift the TorqueMaster® spring tube assembly and rest it on top of the flag angles.

NOTE: Cable drum assemblies are marked right and left hand. Cable drums and TorqueMaster® spring tube assembly are cam shaped to fit together only one way.

Starting on the right hand side, pre-wrap the cable drum with the counterbalance lift cable 1-1/2 wraps, as shown. Position the TorqueMaster® spring tube assembly so the cam peak is pointing straight up. Slide the cable drum over the winding shaft until the cable drum seats against the TorqueMaster® spring tube assembly. The winding shaft must extend past the cable drum far enough to expose the splines and the grooves. Align the winding shaft grooves with the round notch in the flag angle.

FOR DOUBLE SPRING APPLICATIONS: Repeat for left hand side.

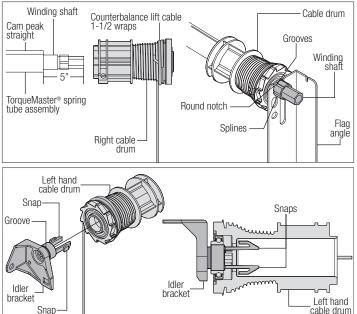
FOR SINGLE SPRING APPLICATIONS: Insert the idler bracket into the left hand cable drum. Lightly press the idler bracket into the cable drum until two distinct clicks are heard, or the bracket is inserted all the way.

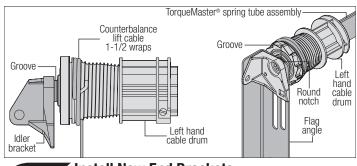
IMPORTANT: ENSURE THE SNAPS ON THE IDLER BRACKET (LEFT HAND SIDE) ARE ENGAGED INTO THE LEFT HAND CABLE DRUM, SO THAT IT DOES NOT COME BACK OUT.

NOTE: The idler bracket is designed for permanent assembly. Do not attempt to remove idler bracket once inserted into the cable drum.

Pre-wrap the left hand cable drum with the counterbalance lift cable 1-1/2 wraps and slide the cable drum over the TorqueMaster® spring tube assembly. Slide the TorqueMaster® spring tube assembly into the cable drum until the cable drum seats up against the TorqueMaster® spring tube assembly.

NOTE: The idler bracket must extend past the cable drum far enough to expose the grove. Align the idler bracket groove with the round notch in the flag angle.





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Install New End Brackets

Tools Required: Power drill, 3/16" Drill bit, 7/16" Socket driver, 1/2" Wrench, Tape measure, Step ladder, Safety glasses, Leather gloves

IMPORTANT: WARNING TAGS MUST BE SECURELY ATTACHED TO END BRACKET(S).

NOTE: On single spring applications, the idler end bracket was positioned in a previous step, but must be fastened in this step.

NOTE: Prior to fastening the end bracket(s) / idler end bracket into the door jamb, pilot drill using a 3/16" drill bit.

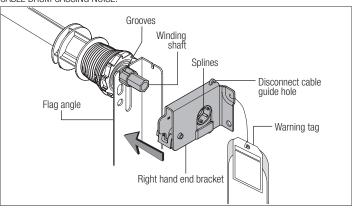
Beginning with the right hand side, slide the end bracket onto the winding shaft so that the splines in the ratchet wheel fit onto the winding shaft grooves. Attach the end bracket to the flag angle using (1) 5/16" - $18 \times 3/4$ " carriage bolt, (1) 5/16" washer and (1) 5/16" - $18 \times 3/4$ " carriage bolt, (1) 5/16" washer and (1) 5/16" - $18 \times 3/4$ " carriage bolt, (1) 5/16" washer and (1) 5/16" - $18 \times 3/4$ " carriage bolt, (1) 5/16" washer and (1) 5/16" - $18 \times 3/4$ " because the end bracket to the jamb using (1) 5/16" x 1-5/8" lag screw.

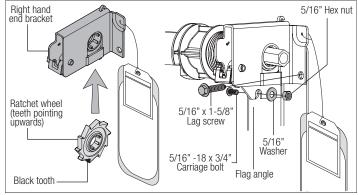
NOTE: If ratchet wheel falls out of end bracket, refer to illustration for proper insertion orientation.

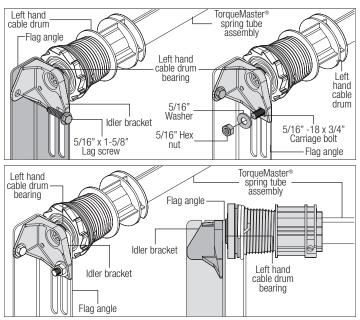
FOR DOUBLE SPRING APPLICATIONS: Repeat same process for left hand end bracket.

FOR SINGLE SPRING APPLICATIONS: Secure the idler bracket to the flag angle using (1) 5/16" - 18 x 3/4" carriage bolt, (1) 5/16" washer and (1) 5/16" - 18 hex nut. Then secure the idler bracket to the jamb using (1) 5/16" x 1-5/8" lag screw.

IMPORTANT: FOR SINGLE SPRING DOORS, ENSURE THE LEFT HAND CABLE DRUM BEARING IS ALL THE WAY TO THE LEFT AND UP AGAINST THE FLAG ANGLE. IF THE CABLE DRUM IS PULLED AWAY FROM THE FLAG ANGLE, THEN THE IDLER BRACKET CAN RUB AGAINST THE CABLE DRUM CAUSING NOISE.



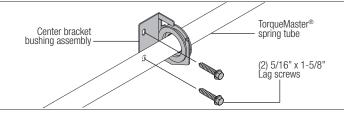




Securing Center Bracket Bushing Assembly
Tools Required: Power drill, 3/16" Drill bit, 7/16" Socket driver, Step ladder,
Level, Safety glasses, Leather gloves

IMPORTANT: TORQUEMASTER® SPRING TUBE MUST BE LEVEL BEFORE SECURING CENTER BRACKET BUSHING ASSEMBLY TO HEADER.

To locate the center bracket bushing assembly, mark the header halfway between the flag angles and level the TorqueMaster® spring tube. Drill 3/16" pilot holes into header for the lag screws. Fasten the center bracket bushing assembly to the header using (2) 5/16" x 1-5/8" lag screws.

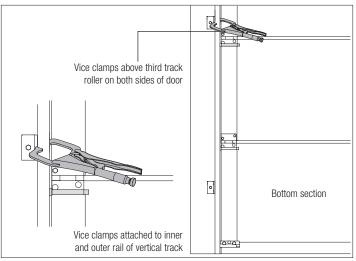


Securing Door For Winding Spring(s)
Tools Required: Vice clamps, Step ladder, Safety glasses, Leather gloves

With the door in the fully closed position, place vice clamps onto both vertical tracks just above the third track roller. This is to prevent the garage door from rising while winding springs.

△ WARNING

FAILURE TO PLACE VICE CLAMPS ONTO VERTICAL TRACK CAN ALLOW DOOR TO RAISE AND CAUSE SEVERE OR FATAL INJURY.



Lift Cable Adjustments
Tools Required: Locking pliers, Flat tip scr

Tools Required: Locking pliers, Flat tip screwdriver, Step ladder, Tape measure, Pliers / Wire cutters, Safety glasses, Leather gloves

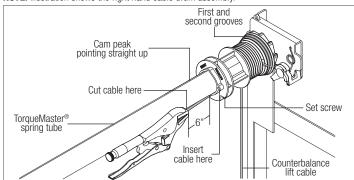
Starting on the right side, adjust the cable drum assembly by rotating the drum until the set screw faces directly away from the header. The position of the cam peak on the TorqueMaster® spring tube should be pointing straight up.

Loosen the set screw no more than 1/2 turn. Ensure counterbalance lift cable is aligned and seated in the first and second grooves of the cable drum. Pull on the end of the cable to remove all cable slack.

Snug the set screw and then tighten an additional 1-1/2 turns. Measure approximately 6" of cable and cut off excess cable. Insert end of the cable into the hole of cable drum. Repeat for left hand cable drum assembly.

IMPORTANT: ENSURE THE COUNTERBALANCE LIFT CABLE IS ALIGNED AND SEATED IN THE FIRST AND SECOND GROOVES OF THE CABLE DRUM PRIOR TO WINDING SPRINGS.

NOTE: Illustration shows the right hand cable drum assembly.



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Winding Spring(s)

Tools Required: Ratchet wrench, 5/8" Socket, 3" Socket extension, Pliers / Wire cutters, Flat tip screwdriver, Step ladder, Tape measure, Safety glasses, Leather cloves

△ WARNING

WINDING TORSION SPRING(S) IS AN EXTREMELY DANGEROUS PROCEDURE AND SHOULD BE PERFORMED ONLY BY A TRAINED DOOR SYSTEM

⚠ WARNING

IT IS RECOMMENDED THAT LEATHER GLOVES BE WORN WHILE WINDING SPRINGS. FAILURE TO WEAR GLOVES MAY CAUSE INJURY TO HANDS.

Double check to ensure the counterbalance lift cable is aligned in the first and second grooves of the cable drum, see step Lift Cable Adjustments. There are two methods for counting the spring turns as you wind. One method is to identify the black tooth on the ratchet wheel inside of the end bracket. When the wheel makes one revolution and the tooth returns to its starting point, one turn has been made. The other method is to make a mark on the winding shaft (or socket) and end bracket, and count your turns in this manner.

Starting on the right hand side, turn the pawl knob on the end bracket to the upper position. Using a ratchet wrench with a 5/8" socket and a 3" extension, wind the spring by rotating the winding shaft counter clockwise, while watching either the black tooth on the ratchet wheel or the mark on the winding shaft.

NOTE: A 3" extension is recommended for added clearance from the horizontal track angle.

IMPORTANT: PAWL KNOB MUST BE IN UPPER POSITION TO ADD / REMOVE REQUIRED NUMBER OF SPRING TURNS.

After 2 to 3 turns, remove the ratchet wrench and adjust the counterbalance lift cable on the left side. Ensure counterbalance lift cables are in the first and second grooves of the cable drums, as shown in step Lift Cable Adjustments.

NOTE: Single spring applications require no spring winding on the left hand side, but lift cable tension needs to be adjusted.

IMPORTANT: COUNTERBALANCE LIFT CABLE TENSION MUST BE EQUAL ON BOTH SIDES PRIOR TO FULLY WINDING SPRINGS.

See the Winding Spring Turn Chart for the required number of winding turns: FOR SINGLE SPRING APPLICATIONS:

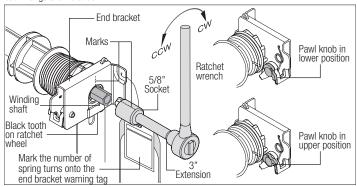
Return to the right hand end bracket and continue winding the spring to the required number of turns for your door following the double spring instructions below. Place pawl knob in lower position.

FOR DOUBLE SPRING APPLICATIONS:

Either use the black tooth on the ratchet wheel for winding reference or place a mark on the winding shaft and end bracket. Place the ratchet wrench with 5/8" socket and a 3" extension onto the left hand winding shaft end. To wind the spring, rotate the winding shaft clockwise, while watching the black tooth on the ratchet wheel or the mark on the winding shaft. Rotate the winding shaft to the required number of winding turns for your door. Then return to the right hand side and wind the right hand spring to the required number of turns. Place pawl knob in lower position on both sides.

IMPORTANT: MARK THE NUMBER OF SPRING TURNS ONTO THE END BRACKET WARNING TAG.

NOTE: Since total turns to balance door can deviate from winding spring turn chart values by \pm 1/2 turn, adjustments to the recommended number of turns may be required after rear back hangs are installed.



WINDING SPRING TURN CHART	
DOOR HEIGHT	SPRING TURNS
6'-0"	14
6'-3"	14-1/2
6'-5"	15
6'-6"	15
6'-8"	15-1/2
6'-9"	15-1/2
7'-0"	16
7'-3"	16-1/2
7'-6"	17
7'-9"	17-1/2
8'-0"	18

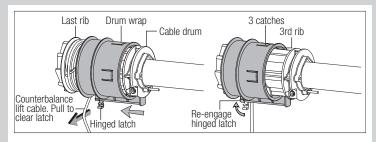


NOTE: If you don't have drum wraps (optional), then skip this step. Refer to Package Contents / Parts Breakdown, to determine if you have drum wraps.

Starting on the left hand side, position the left hand drum wrap, as shown. Slide the left hand drum wrap over the cable drum assembly.

IMPORTANT: PULL THE COUNTERBALANCE LIFT CABLE AWAY FROM THE HEADER TO CLEAR THE LATCH, WHILE SIMULTANEOUSLY SLIDING THE DRUM WRAP AGAINST THE LAST RIB UNTIL THE THREE CATCHES ENGAGE THE 3RD RIB.

Secure the hinge latch by rotating upward until a distinct snap is felt. Confirm the catch is fully engaged by lightly tugging on it. Repeat the same process for right hand side.





Re-Secure Rear Back Hangs

Tools Required: Ratchet wrench, Socket: 1/2" 5/8", Wrench: 1/2" 5/8", (2) Vice clamps, Tape measure, Level, Hammer, Step Ladder

IMPORTANT: HOLD THE DOOR DOWN TO PREVENT IT FROM RISING UNEXPECTEDLY IN THE EVENT THE SPRING(S) WAS OVER-WOUND AND CAUTIOUSLY REMOVE VICE CLAMPS FROM VERTICAL TRACKS.

Raise the door until the top section and half of the next section are in the horizontal track radius. Do not raise door any further since rear of horizontal tracks are not yet supported.

∧ Warning

RAISING DOOR FURTHER CAN RESULT IN DOOR FALLING AND CAUSE SEVERE OR FATAL INJURY.

Clamp a pair of vice clamps onto the vertical tracks just above the second track roller on one side, and just below the second track roller on the other side. This will prevent the door from raising or lowering while installing the rear back hangs.

Attach the horizontal tracks to the rear back hangs with 5/16" - 18×1 hex bolts and nuts (may not be supplied). Horizontal tracks must be level and parallel with door within 3/4" to 7/8" maximum of door edge.

NOTE: If an idrive® opener is installed, position horizontal tracks one hole above level when securing it to the rear back hangs.

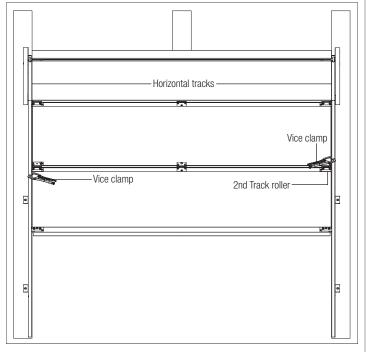
∧ Warning

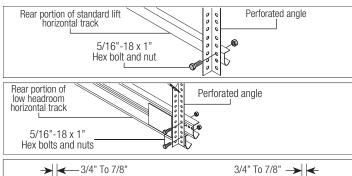
KEEP HORIZONTAL TRACKS PARALLEL AND WITHIN 3/4" TO 7/8" MAXI-MUM OF DOOR EDGE, OTHERWISE DOOR COULD FALL, RESULTING IN SEVERE OR FATAL INJURY.

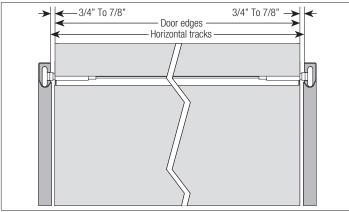
IMPORTANT: DO NOT SUPPORT THE WEIGHT OF THE DOOR ON ANY PART OF THE REAR BACK HANGS THAT CANTILEVERS 4" OR MORE BEYOND A SOUND FRAMING MEMBER.

NOTE: If rear back hangs are to be installed over drywall, use (2) 5/16" x 2" hex head lag screws and make sure lag screws engage into solid structural lumber.

NOTE: 26" angle must be attached to sound framing members and **nails should not be used**.







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Balancing Door

Tools Required: Ratchet wrench, Socket: 5/8", Wrench: 5/8", 3" Socket extension, (2) Vice clamps, Step ladder, Tape measure, Safety glasses, Leather gloves

NOTE: Windows will cause the top section to be significantly heavier than the remaining sections. Wayne Dalton attempts to balance the door at the top and bottom. To prevent any sudden door acceleration between the top and bottom, we recommend motor operating all doors with windows. Doors with windows in the top section should not be manually operated.

Remove any vice clamps. Lift the door and check its balance. Adjust spring(s) if door lifts by itself (hard to pull down) or if door is difficult to lift (easy to pull down). Anytime spring adjustments are made, ratchet pawl knob must be in the upper position. An unbalanced door can cause TorqueMaster® Plus operation problems.

Close the door and place vice clamps onto both vertical tracks just above the third track roller. This is to prevent the garage door from rising while adjusting the counterbalance spring(s).

IMPORTANT: TO ADJUST SPRINGS, ONLY ADD OR REMOVE A MAXIMUM OF 3/10 OF A TURN (THREE TEETH ON THE RATCHET WHEEL) AT A TIME. BOTH SIDES NEED TO BE ADJUSTED EQUALLY ON DOUBLE SPRING DOORS.

Add spring tension: The ratchet wheel is made of 10 teeth. To add spring tension, ensure the ratchet and socket is set so that it will tighten counter clockwise on the right hand side and clockwise on the left hand side. Place pawl knob in upper position. Place the ratchet wrench with 5/8" socket and 3" socket extension onto the winding shaft, pull down to add 3/10 of a turn. Watch as three teeth of the ratchet wheel pass over the pawl, creating three "clicks". Place pawl knob in lower position.

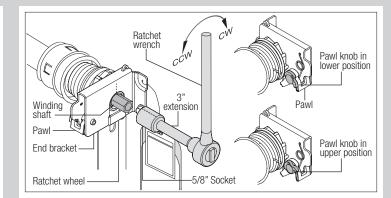
Remove spring tension: To remove spring tension, place a regular 5/8" wrench onto the winding shaft. Place pawl knob in upper position. Pull down on the wrench to relieve pressure between the pawl and the ratchet wheel. Push in on the pawl to allow the three ratchet wheel teeth to pass by the pawl, as you carefully allow the wrench to be rotated upward by the spring tension, release the pawl to allow it to engage with the ratchet wheel. Place pawl knob in lower position.

IMPORTANT: BE PREPARED TO HOLD THE FULL TENSION OF THE SPRING.

IMPORTANT: DO NOT ADD OR REMOVE MORE THAN 1 SPRING TURN (1 SPRING TURN EQUALS 10 TEETH ON RATCHET WHEEL) FROM THE RECOMMENDED NUMBER OF TURNS SHOWN ON THE WINDING SPRING TURN CHART.

If the door still does not operate easily, lower the door into the closed position, unwind spring(s) completely, and recheck the following items:

- 1.) Check the door for level.
- 2.) Check the TorqueMaster® spring tube and flag angles for level and plumb.
- 3.) Check the distance between the flag angles, which must be door width plus 3-3/8" to 3-1/2".
- 4.) Check the counterbalance lift cables for equal tension, adjust if necessary.
- 5.) Rewind the spring(s).
- 6.) Make sure door isn't rubbing on jambs.





TorqueMaster® Plus Reset Instructions

IMPORTANT: THE DRAWBAR OPERATOR FORCE SETTINGS MUST BE ADJUSTED AC-CORDING TO THE MANUFACTURER'S INSTRUCTIONS. SOME LIGHTER WEIGHT DOORS ARE DESIGNED TO OPERATE WITH A SINGLE COUNTERBALANCE SPRING. IF THAT COUNTER-BALANCE SPRING BREAKS AND THE DRAWBAR OPERATOR'S FORCE SETTINGS ARE NOT ADJUSTED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS, THE DRAWBAR OPERATOR MAY THEN HAVE THE CAPABILITY OF LIFTING THE DOOR TO THE OPEN POSI-TION, DESPITE THE BROKEN COUNTERBALANCE SPRING. THIS SCENARIO WILL CAUSE THE COUNTERBALANCE LIFT CABLES TO GO SLACK AND ENGAGE THE TORQUEMASTER® PLUS SAFETY SYSTEM. IF A PERSON IS UNAWARE OF THE SLACK COUNTERBALANCE LIFT CABLES AND THE ENGAGED TORQUEMASTER® PLUS SAFETY SYSTEM AND ACTIVATES THE MISADJUSTED DRAWBAR OPERATOR, DAMAGE WILL LIKELY OCCUR TO THE DOOR AND DRAWBAR OPERATOR. THE POTENTIAL ALSO EXISTS THAT THE PERSON ACTIVATING THE DRAWBAR OPERATOR UNDER THIS SCENARIO COULD BE SEVERELY INJURED

WARNING

READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO RE-SET THE TORQUEMASTER® PLUS SYSTEM. IF IN QUESTION ABOUT ANY OF THE PROCEDURES, DO NOT PERFORM THE WORK. INSTEAD, HAVE A **OUALIFIED DOOR SYSTEMS TECHNICIAN RESET THE SYSTEM.**

WARNING

TO AVOID SEVERE OR FATAL INJURY, DO NOT STAND OR WALK UNDER A MOVING DOOR. OR PERMIT ANYONE TO STAND OR WALK UNDER AN **ELECTRICALLY OPERATED DOOR.**

This door is equipped with a TorqueMaster® plus system, a safety feature which prevents the door from rapidly descending in case of spring failure or forceful manual operation. If the system engages with the door in the open position, personal items that are left unattended in the garage or home are at risk to theft. To ensure the safekeeping of these items, close the garage door.

Typical signs of an engaged system.

Single spring system: Visually inspect the TorqueMaster® Plus right hand end bracket to confirm that the system has engaged (see illustration). If the system is engaged, then the door will not close. If the drawbar operator force settings were properly set during the initial installation, the door will not open. If the drawbar operator can physically overcome the weight of the door and lift it to the open position, then the counterbalance lift cables will be slack. If the system is engaged, DO NOT attempt to make the repairs. Instead, have a trained door system technician make the necessary repairs to counterbalance lift cables, spring assemblies and other hardware.

Double spring system: Visually inspect the TorqueMaster® Plus end brackets to confirm that the system has engaged (see illustration). Door makes a distinct "clicking" noise upon being opened. If the system is engaged, carefully follow the reset instructions below or refer to the reset tag (attached to right hand end bracket) to reset the TorqueMaster® Plus system.

Resetting an engaged TorqueMaster® Plus double spring system only:

- 1. First, locate and visually inspect the TorqueMaster® plus end bracket(s) to confirm that the system has engaged (see illustration)
- 2. With the door in the fully closed position, place vice clamps onto both vertical tracks just above the third track roller. Disengage the drawbar operator (if installed) by pulling or placing the emergency disconnect in the manually operated position
- 3. With assistance, carefully remove vice clamps and raise the door to the fully open position.
- 4. Place vice clamps onto both vertical tracks just below the bottom track roller on both sides.
- 5. Now is a good time to remove vehicles or personal items from garage to provide clear access to end brackets.
- 6. For $\underline{single\ spring\ applications}$: Flip the ratchet pawl knob on the right hand end bracket to the upper position. For $\underline{double\ spring\ applications}$: Flip the ratchet pawl knob on both end brackets to the upper position (see illustration).
- 7. Raise door 2"-3" and then lower door. Repeat this process until the system resets (see disengaged system illustrations)

IMPORTANT: BE PREPARED TO SUPPORT THE TOTAL WEIGHT OF THE DOOR.

8. Cautiously remove the vice clamps from the vertical tracks. With assistance lower door.

Checking springs for tension:

9. Starting on the right hand side, place a ratchet wrench, 5/8" socket and a 3" extension on the TorqueMaster® Plus winding shaft (see illustration). Ensure ratchet is set so that it will tighten counter clockwise on the right hand side, and clockwise on the left hand side. If tension is present, remove the ratchet and check the left hand side. If spring(s) have tension, the door will need to be balanced; refer to step, Balancing Door, to do this. If no spring tension is present, contact a qualified trained door system technician to replace the spring(s)

IMPORTANT: TO AVOID POSSIBLE INJURY, HAVE A TRAINED DOOR SYSTEMS TECHNICIAN MAKE ADJUSTMENTS/ REPAIRS TO COUNTERBALANCE LIFT CABLES, SPRING ASSEMBLIES

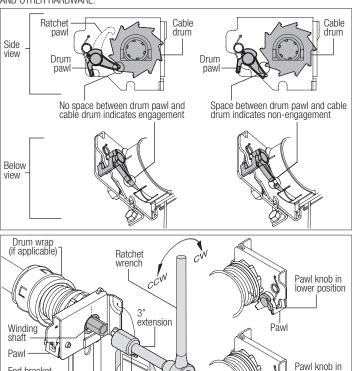
AND OTHER HARDWARE

End bracket

Ratchet wheel

TorqueMaster

reset instructions tag



5/8" socket

upper position



Operation And Maintenance



OPERATING YOUR GARAGE DOOR:

Before you begin, read all warning labels affixed to the door and the installation instructions and owner's manual. When correctly installed, your Wayne Dalton door will operate smoothly. Always operate your door with controlled movements. Do not slam your door or throw your door into the open position, this may cause damage to the door or its components. If your door has an electric opener, refer to the owner's manual to disconnect the opener before performing manual door operation below.

Manual door operation:

For additional information on manual garage door operations go to www.dasma.com and reference TDS 165.

IMPORTANT: DO NOT PLACE FINGERS OR HANDS INTO SECTION JOINTS WHEN OPENING AND/OR CLOSING A DOOR. ALWAYS USE LIFT HANDLES / SUITABLE GRIPPING POINTS WHEN OPERATING THE DOOR MANUALLY.

Opening a Door: Make sure the lock(s) are in the unlocked position. Lift the door by using the lift handles / suitable gripping points only. Door should open with little resistance.

Closing a Door: From inside the garage, pull door downward using lift handles / gripping point only or a high friction area only. If you are unable to reach the lift handles/ suitable gripping points only, use pull down rope affixed to the side of door. Door should close completely with little resistance.

Using an electric operator:

IMPORTANT: PULL DOWN ROPES MUST BE REMOVED AND LOCKS MUST BE REMOVED OR MADE INOPERATIVE IN THE UNLOCKED POSITION.

When connecting a drawbar (trolley type) garage door operator to this door, an drawbar operator and or drawbar operator bracket must be securely attached to the top section of the door, along with any struts provided with the door. Always use the drawbar operator and or drawbar operator bracket supplied with the door. To avoid possible damage to your door, Wayne Dalton recommends reinforcing the top section on models 8000, 8100, 8200 and 9100 doors with a strut (may or may not be supplied). The installation of the drawbar operator must be according to manufacturer's instructions and force settings must be adjusted properly. Refer to the owner's manual supplied with your drawbar operator for complete details on installation, operation, maintenance and testing of the operator.

Maintaining Your Garage Door:

Before you begin, read all warning labels affixed to the door and the installation instructions and owner's manual. Perform routine maintenance steps once a month, and have the door professionally inspected once a year. Review your Installation Instructions and Owner's Manual for the garage door. These instructions are available at no charge from Wayne Dalton, A Division Of Overhead Door Corporation, P.O. Box 67, Mt. Hope, OH., 44660, or at www. Wayne-Dalton.com. For additional information on garage door/operator maintenance go to www.dasma.com and reference TDS 151, 167 and 179.

Monthly Inspections:

1. Visual Inspection: Closely inspect jambs, header and mounting surface. Any wood found not to be structurally sound must be replaced. Inspect the springs, counterbalance lift cables, track rollers, pulleys, rear back hangs and other door hardware for signs of worn or broken parts. Tighten any loose screws and/or bolts. Check exterior surface of the door sections for any minor cracks. Verify door has not shifted right or left in the opening. If you suspect problems, have a trained door system technician make the repairs.

△ WARNING

GARAGE DOOR SPRINGS, COUNTERBALANCE LIFT CABLES, BRACK-ETS, AND OTHER HARDWARE ATTACHED TO THE SPRINGS ARE UNDER EXTREME TENSION, AND IF HANDLED IMPROPERLY, CAN CAUSE SEVERE OR FATAL INJURY. ONLY A TRAINED DOOR SYSTEMS TECHNICIAN SHOULD ADJUST THEM, BY CAREFULLY FOLLOWING THE MANUFAC-TURER'S INSTRUCTIONS.

△ WARNING

NEVER REMOVE, ADJUST, OR LOOSEN THE BOLTS, SCREWS AND/OR LAG SCREWS ON THE COUNTERBALANCE (END OR CENTER BEARING BRACKETS) SYSTEM OR BOTTOM CORNER BRACKETS OF THE DOOR. THESE BRACKETS ARE CONNECTED TO THE SPRING(S) AND ARE UNDER EXTREME TENSION. TO AVOID POSSIBLE SEVERE OR FATAL INJURY, HAVE ANY SUCH WORK PERFORMED BY A TRAINED DOOR SYSTEMS TECHNICIAN USING PROPER TOOLS AND INSTRUCTIONS.

TorqueMaster® Plus Springs: Pawl knob(s) (located on the TorqueMaster® end brackets above the door) should be engaged to prevent the door from rapidly descending in case of spring failure or forceful manual operation.

2. Door Balance: Periodically test the balance of your door. If you have a garage door drawbar operator, use the release mechanism so you can operate the door by hand when doing this test. Start with the door in the fully closed position. Lift the door to check its balance. Adjust

TorqueMaster®, if door lifts by itself (hard to pull down) or if door is difficult to lift (easy to pull down). DO NOT attempt to repair or adjust TorqueMaster® Springs yourself. To adjust TorqueMaster®, refer to your installation instructions and owner's manual. If in question about any of the procedures, do not perform the work. Instead, have it adjusted by a trained door systems technician.

3. Lubrication: The door should open and close smoothly. Ensure the door track rollers are rotating freely when opening and closing the door. If track rollers do not rotate freely, clean the door tracks, removing dirt and any foreign substances. Clean and lubricate (use a non-silicon based lubricant) graduated end hinges, center hinge(s), steel track rollers, bearings and torsion spring(s) (torsion spring coil surfaces). DO NOT lubricate plastic idler bearings, nylon track rollers, door track. DO NOT oil a cylinder lock, if actuation is difficult use a graphite dust to lubricate.

Thank you for your purchase.
PLEASE DO NOT RETURN THIS PRODUCT TO THE STORE
Please Do Not Return This Product To The Store. Please call 1-866-569-3799 (Press Option 1) and follow the prompts to contact the appropriate customer service agent. They will be happy to handle any questions that you may have.

AFTER INSTALLATION IS COMPLETE, FASTEN THIS MANUAL NEAR GARAGE DOOR FOR EASY REFERENCE.