

Models 9100, 9405, Of Contents Table **Pre-Installation** 2 9605, 5120, 5145, 2 Important Safety Instructions Removing an Existing Door and Preparing the Opening 2 9700, 9510 and 9800 **Tools Required** 2 **Breakdown of Door and Track Parts** 4 **Breakdown of Counterbalance Parts** 5 RESIDENTIAL DOORS **Door Installation Instructions** 6 **Counterbalance Installation Instructions** 11 TorqueMaster[®] Spring 11 **Torsion Spring** 15 STANDARD | IFT **Extension Spring** 18 **Maintenance** 21 21 Cleaning Your Garage Door Painting Your Garage Door 21 Maintaining The Finish On Your Garage Door 21 QUICK START GUIDE / OWNER'S MANUAL **Operation And Maintenance** 21 Warrantv 23 PLEASE DO NOT RETURN THIS PRODUCT **QUICK START GUIDE IMPORTANT NOTICES! TO THE STORE** This Quick Start Guide / Owner's Manual provides basic instructions for the installation of **standard-package** garage doors with a maximum If you need assistance, please call 1-866door height of 8 feet only. Option-Specific Installation Instructions are available for doors over 8 feet tall, or purchased with any of the following 569-3799 (press Option 1) and follow the options: prompts to contact a customer service Step Plate, Riveted Track, Angle Mount Track, Low Headroom, High Lift, Full Vertical Lift, Roof Pitch, 32" Radius Track, Solid Shaft, Keyed Shafts, representative. They will be happy to handle Center Coupler Assembly or any other option not included herein. any questions that you may have. To avoid possible injury or damage, read and fully understand these instructions and any applicable Option-Specific Instructions carefully before installing and operating the garage door. Pay close attention to all warnings and notes. **AFTER INSTALLATION IS COMPLETE, LEAVE THIS QUICK START GUIDE /** The Option-Specific Installation Instructions and a more detailed **OWNER'S MANUAL WITH THE** Installation Instructions And Owner's Manual are available at no charge from: **HOMEOWNER, OR FASTEN IT NEAR** - Your local Wayne Dalton Sales Center, or GARAGE DOOR FOR EASY REFERENCE. - Online at www.Wayne-Dalton.com, or - By mailing to: Wayne Dalton, a division of Overhead Door Corporation, P.O. Box 67, Mt. Hope, OH., 44660

Part Number 359498

Important Safety Instructions

DEFINITION OF KEY WORDS USED IN THIS MANUAL:

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

CAUTION

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

IMPORTANT: INDICATES REQUIRED STEP FOR SAFE AND PROPER DOOR OPERATION.

NOTE: Indicates information assuring proper installation of the door.

READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING INSTALLATION. IF IN QUES-TION 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 cuts from sharp metal edges.
- 3. Wear eye protection when using tools, to avoid eye injury.
- **4.** Do Not install your new door on a windy day. Door could fall during the installation, causing severe or fatal injury.
- 5. Doors 12'-0" wide and over must be installed by two persons, to avoid possible injury. Do Not attempt to install alone.
- 6. Operate door only when it is properly adjusted and free from obstructions.
- 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.
- 8. DO NOT stand or walk under a moving door, or permit anybody to stand or walk under an electrically operated door.
- 9. 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.
- 15. Test electric opener's safety features monthly, following manufacturer's instructions.
- 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.
- **18.** For windloaded doors, the wind performance is achieved via the entire door system and component substitution is not authorized without express permission by Wayne Dalton.

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

CAUTION

IF ANY PART OF THE DOOR IS TO BE INSTALLED ONTO PRESERVATIVE-TREATED WOOD, PTFE-COATED OR STAINLESS STEEL FASTENERS MUST BE OBTAINED AND USED. REPLACEMENT FASTENERS MUST BE OF AT LEAST EQUAL STRENGTH AND SIZE AS ORIGINAL FASTENERS. IF THE ORIGINAL FASTENER WAS RED-HEAD, THE REPLACEMENT FASTENER MUST BE RED-HEAD ALSO. CONTACT WAYNE DALTON FOR FASTENER STRENGTH VALUES IF NEEDED.

IMPACT GUNS ARE NOT RECOMMENDED. 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.

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

Potential Hazard	Effect	Prevention
		Keep people clear of opening while Door is moving.
2	Could result in Death or Serious Injury	Do NOT allow children to play with the Door Opener.
へ		Do NOT operate a Door that jams or one that has a broken spring.
Moving door		
	Could result in Death or Serious	Do NOT try to remove, install, repair or adjust springs or anything to which door spring parts are fastened, such as, wood blocks, steel brackets, cables or other like items.
High tension spring		Installations, repairs and adjustments must be done by a trained door system techni- cian using proper tools and instructions.

Removing an Existing Door and Preparing the Opening

To avoid possible injury and to insure proper installation, it's highly recommended that you read and fully understand the complete instructions on removing an Existing Door & Preparing the Opening. These are available for download at **www.Wayne-Dalton.com** or at your local Wayne Dalton Sales Center.

NOTE: For complete details on the Headroom, Backroom or the Mounting Surface requirements, refer to more detailed Installation Instructions and Owner's manual available at <u>www.</u> Wayne-Dalton.com.

WEATHERSTRIPS (MAY NOT BE INCLUDED): Depending on the size of your door, you may have to cut or trim the weatherstrips (if necessary) to properly fit into the header and jambs.

NOTE: If nailing product at 40°F or below, pre-drilling is required.

NOTE: Do not permanently attach weatherstrips to the header and jambs at this time.

FOR QUICK INSTALL TRACK: For the header, align the weatherstrip with the inside edge of the header and temporarily secure it to the header with equally spaced nails. Starting at either side of the jamb, fit the weatherstrip up tight against the temporarily attached weatherstrip in the header and flush with the inside edge of the jamb. Temporarily secure the weatherstrip with equally spaced nails. Repeat for other side. This will keep the bottom section from falling out of the opening during installation. Equally space nails approximately 12" to 18" apart.

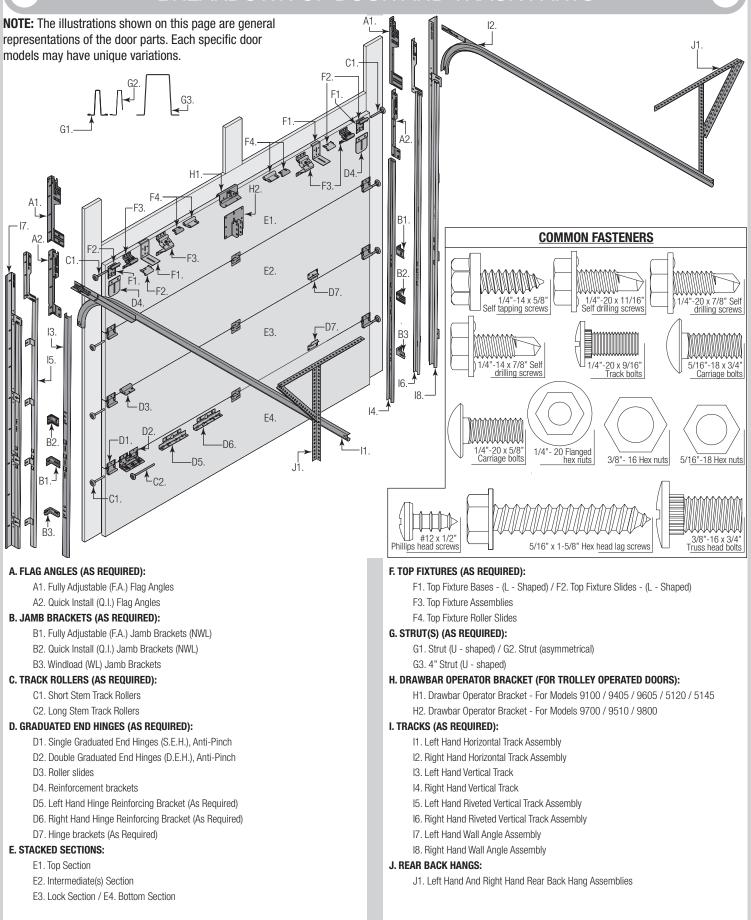
FOR FULLY ADJUSTABLE TRACK: For the header, align the weatherstrip 1/8" to 1/4" inside the header edge, and temporarily secure it to the header with equally spaced nails. Starting at either side of the jamb, fit the weatherstrip up tight against the temporarily attached weatherstrip in the header and 1/8" to 1/4" inside the jamb edge. Temporarily secure the weatherstrip with equally spaced nails. Repeat for other side. This will keep the bottom section from falling out of the opening during installation. Equally space nails approximately 12" to 18" apart.

Tools Required

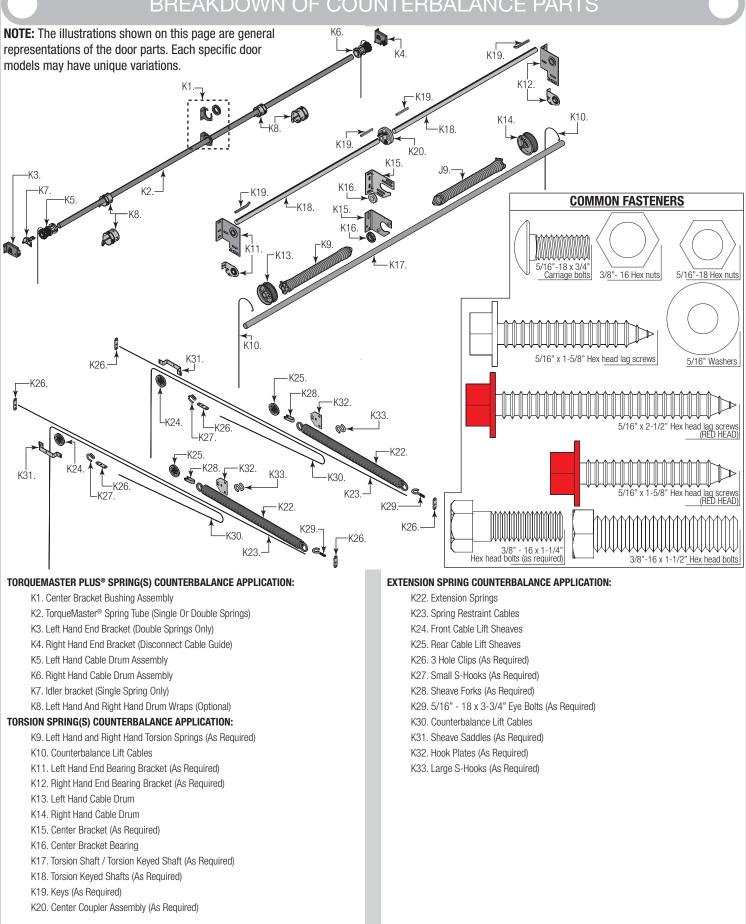
Power drill	Phillips head screw- driver	Saw horses	Hammer
Drill bits: 1/8", 3/16", 9/32", 7/16", 1/2"	Wrenches: 3/8", 7/16", 1/2", 9/16", 5/8"	Needle nose pliers	Safety glasses
Ratchet wrench	Pencil	Pliers / Wire cutters	Level
Socket driver: 7/16"	Approved winding rods	Step ladder	Leather gloves
Sockets: 7/16", 1/2", 9/16", 5/8"	Locking pliers	Tape measure	Flat tip screwdriver

3" Ratchet extension	Vise clamps	

BREAKDOWN OF DOOR AND TRACK PARTS



BREAKDOWN OF COUNTERBALANCE PARTS



DOOR INSTALLATION INSTRUCTIONS

To avoid possible injury and to insure proper installation, it's highly recommend that you read and fully understand the complete **Installation Instructions and Owner's Manual** and any applicable **Option-Specific Installation Instructions** before you attempt this installation. The complete **Option-Specific Installation Instructions and owner's manual** are available for download at **www.Wayne-Dalton.com**.

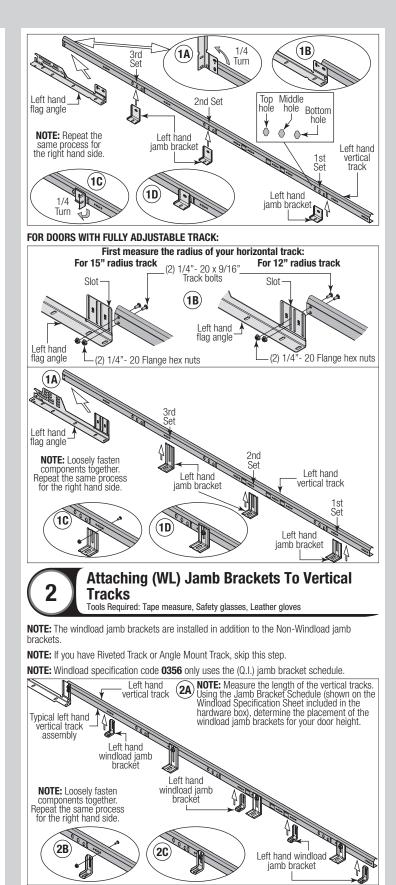
IMPORTANT: FOR MORE DETAILED INFORMATION ON COMPONENTS AND INSTALLA-TION STEPS, REFER TO THE COMPLETE INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL AVAILABLE AT <u>WWW.WAYNE-DALTON.COM</u>.

NOTE: Reference TDS 160 for general garage door terminology at **www.dasma.com**. **IMPORTANT:** IF THE DOOR WILL BE EXPOSED TO A SIGNIFICANT AMOUNT OF ROAD SALT, PAINT THE BARE GALVANIZED BOTTOM WEATHER STEEL RETAINER TO INHIBIT RUSTING.

Attaching Flag Angles and (NWL) Jamb Brackets To Vertical Tracks Tools Required: Tape measure, Safety glasses, Leather gloves

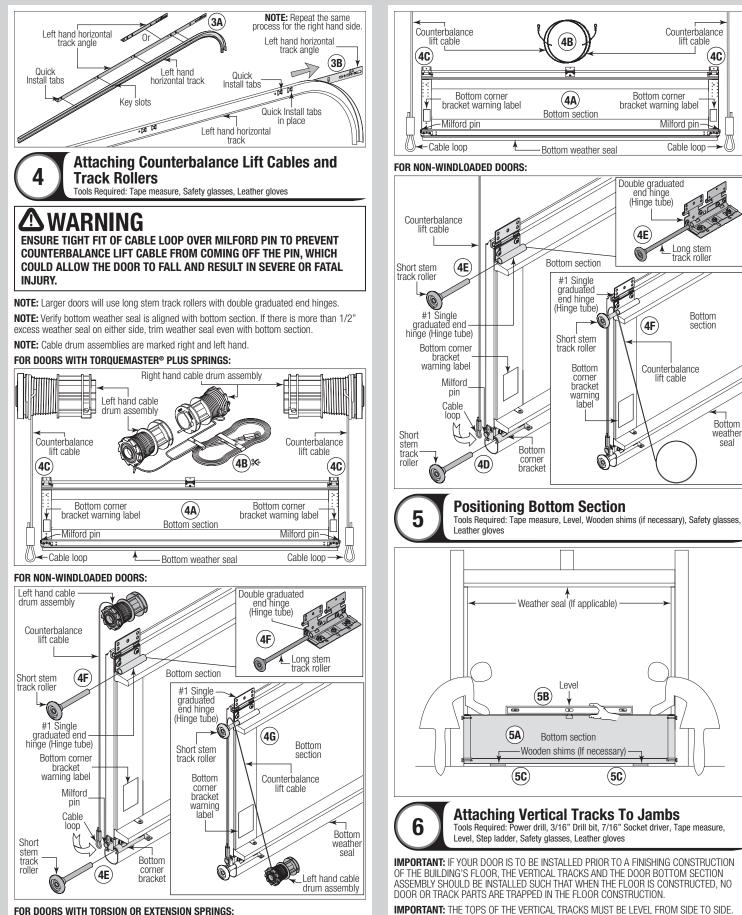
NOTE: If you have Riveted Track or Angle Mount Track, skip this step. **FOR DOORS WITH QUICK INSTALL TRACK:**

DOOR	VERTI-	1ST	SET	2ND	SET	3RD	3RD SET	
HEIGHT	CAL Track Length	JAMB BKT	POSI- Tion	JAMB BKT	POSI- Tion	JAMB BKT	POSI- Tion	
6'0"	64"	5	М	6	В	N	/A	
6'5" - 6'8"	69" - 72"	3	В	6	Μ	N/A		
7'0"	76"	3	В	7	Т	N	/A	
7'3" - 7'9"	79" - 85"	3	В	5	В	6	В	
8'0" 4-SEC	88"	3	М	6	T	7	М	
8'0" 5-SEC	88"	3	В	7	Т	8	Т	
		B= BOTTOM	HOLE, M= M	IDDLE HOLE,	T= TOP HOLE			
Fo	or Door Mode	ls 9700, 95 [°]	10 and 9800	Non-Sonom	a, Jamb Bra	cket Sched	ule	
DOOR	VERTI-	1ST	SET	2ND	SET	3RD SET		
HEIGHT	CAL TRACK LENGTH	JAMB BKT	POSI- TION	JAMB BKT	POSI- Tion	JAMB BKT	POSI- TION	
6'0"	64"	5	М	6	В	N	/A	
6'6" - 6'8"	70" - 72"	3	М	5	В	N/A		
6'10" - 7'0"	74" - 76"	3	В	5	В	N/A		
7'3" - 7'9"	79" - 85"	3	В	5	В	6	В	
8'0" (4 Sec)	88"	3	М	6	Т	7	М	
		B= BOTTOM	HOLE, M= M	IDDLE HOLE,	T= TOP HOLE			
	For	Door Model	s 9800 Sono	ma, Jamb B	racket Sche	dule		
DOOR	VERTI-	1ST	SET	2ND SET		3RD SET		
HEIGHT	CAL TRACK Length	JAMB BKT	POSI- Tion	JAMB BKT	POSI- Tion	JAMB BKT	POSI- TION	
6'6" - 6'8"	70" - 72"	3	М	5	В	N/A		
6'10"	74"	3	М	7	Т	N/A		
7'0"	76"	3	В	5	В	N/A		
7'4" - 7'6"	80" - 82"	3	В	5	В	6	В	
7'8" - 8'0" (4	84" - 88"	3	М	6	Т	7	М	



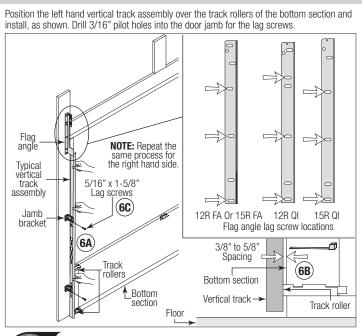
Attaching Horizontal Track Angles Tools Required: Hammer, Safety glasses, Leather gloves

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IMPORTANT: THE TOPS OF THE VERTICAL TRACKS MUST BE LEVEL FROM SIDE TO SIDE. IF THE BOTTOM SECTION WAS SHIMMED TO LEVEL IT, THE VERTICAL TRACK ON THE SHIMMED SIDE MUST BE RAISED THE HEIGHT OF THE SHIM.

NOTE: Make sure the counterbalance lift cable is located between the track rollers and the door jamb.

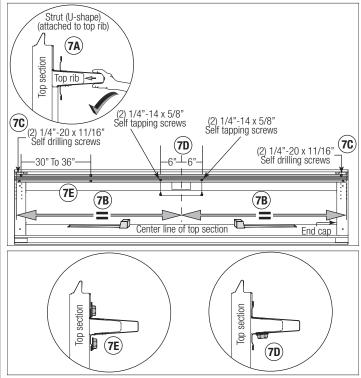


Attaching Strut(s) To Section

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

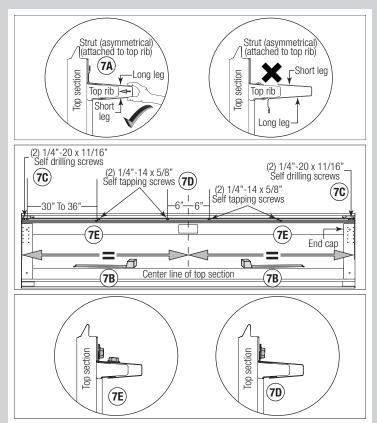
 ${\rm NOTE:}$ For door models 9700, 9510 or 9800 and is not windloaded, the struts are factory attached to the section.

IF YOUR DOOR CAME WITH A STRUT: Attach the Strut to the top section, as shown in the illustration below.



IF YOUR DOOR CAME WITH AN ASYMMETRICAL STRUT: Attach the asymmetrical Strut to the top section, as shown in the illustrations below.

IMPORTANT: WHEN SECURING THE ASYMMETRICAL STRUT TO THE TOP SECTION, IT IS RECOMMENDED NOT TO INSTALL ANY FASTENERS INTO THE SHORT LEG OF THE ASYMMETRICAL STRUT.



FOR WINDLOADED DOORS:

NOTE: For windloaded doors, it is important to install the correct gauge of strut, the correct type / height of the strut, the correct quantity of struts and in the correct strut locations in accordance with each specific windload design pressure drawings to ensure wind performance and regulatory compliance.

FOR WINDLOADED DOOR MODELS 9100, 9405, 9605, 5120, 5145: Refer to your Windload Specification Sheet and install the Struts, then install the Roller Slides onto your sections accordingly.

FOR WINDLOADED DOOR MODELS 9700, 9510: Refer to your Windload Specification Sheet and install the Strut(s), then install the Hinge Brackets onto your sections accordingly.

FOR WINDLOADED DOOR MODEL 9800: Refer to your Windload Specification Sheet and install the Hinge Reinforcing Brackets, then the Strut(s) onto your sections accordingly.



Attaching Drawbar Operator Bracket

Tools Required: Power drill, 7/16" Socket driver, Phillips head screwdriver, Locking pliers, Tape measure, Safety glasses, Leather gloves

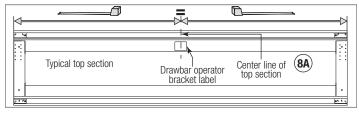
NOTE: If you're installing a drawbar operator, the drawbar operator bracket must be mounted and secured prior to installing top section.

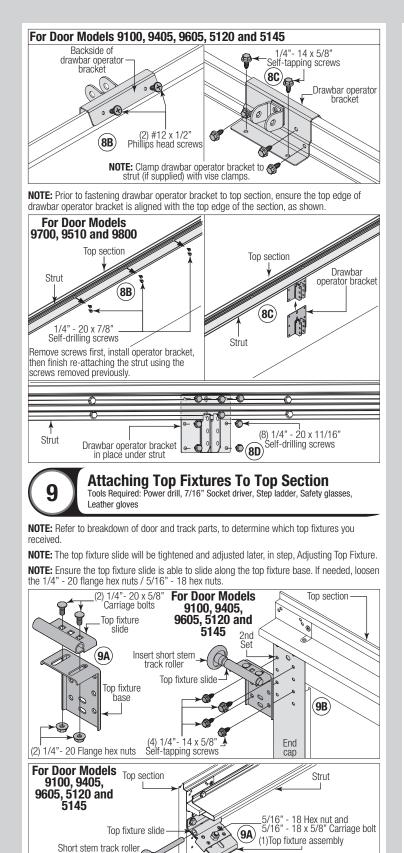
IMPORTANT: TO AVOID POSSIBLE DAMAGE TO YOUR DOOR, WAYNE DALTON RECOM-MENDS REINFORCING THE TOP SECTION WITH A STRUT.

IMPORTANT: WHEN CONNECTING A DRAWBAR OPERATOR TYPE GARAGE DOOR OPENER TO THIS DOOR, A WAYNE DALTON OPERATOR/ DRAWBAR OPERATOR BRACKET MUST BE SECURELY ATTACHED TO THE TOP SECTION OF THE DOOR, ALONG WITH ANY STRUT PROVIDED WITH THE DOOR. THE INSTALLATION OF THE DRAWBAR OPERATOR MUST BE AC-CORDING TO MANUFACTURER'S INSTRUCTIONS AND FORCE SETTINGS MUST BE ADJUSTED PROPERLY.

NOTE: If a strut was installed, you can use two of the 1/4" - 20 x 11/16" self-drilling screws previously used to attach the strut instead of two 1/4" - 14 x 5/8" self-tapping screws when attaching drawbar operator bracket to strut.

NOTE: When attaching drawbar operator bracket to top section with strut, apply additional pressure to thread into the strut.



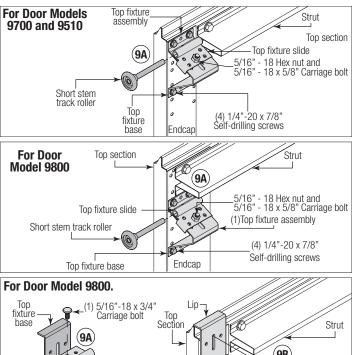


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Endcap

Top fixture base

(4) 1/4"-14 x 5/8" Self-tapping screws



base galaxies Section Strut Section Section Strut Section Section Strut Section Section Strut Section Section Section Strut Section Secti

FOR WINDLOADED DOORS:

NOTE: If you have a Windloaded door and door models 9100, 9405, 9605, 5120, 5145, 9700, refer to your Windload Specification Sheet and install the Top Fixture Roller Slides onto your top section accordingly.

NOTE: Refer to the Windload Specification Sheet to determine if a pushnut is required to be installed on stem track rollers accordingly.

10

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

NOTE: The sections can be identified by the graduation of the factory installed graduated end hinges. The smallest graduated end hinge on section should be stacked on top of the bottom section, with each graduated end hinge increasing as the sections are stacked.

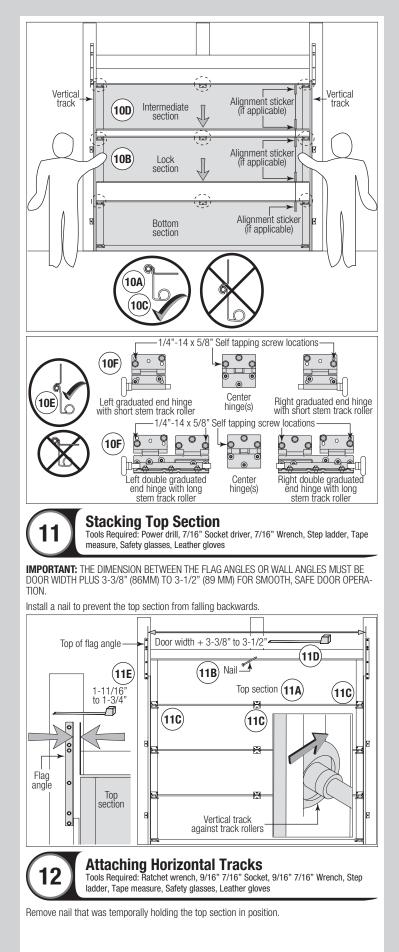
NOTE: Make sure graduated end and center hinges are flipped down, when stacking another section on top.

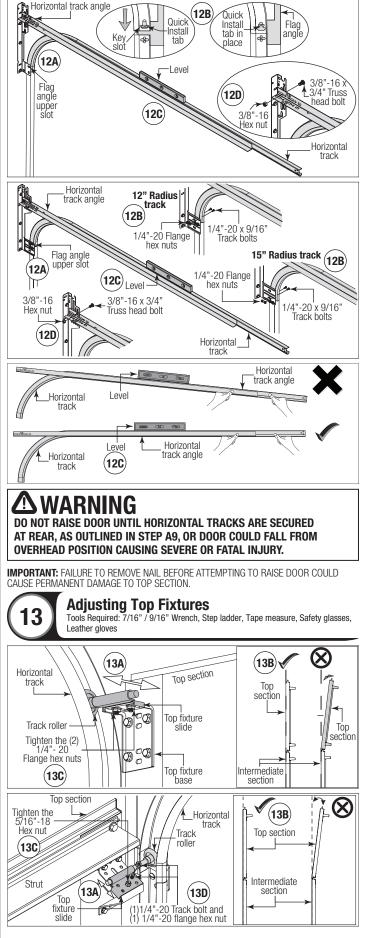
NOTE: Larger doors will use long stem track rollers with double graduated end hinges.

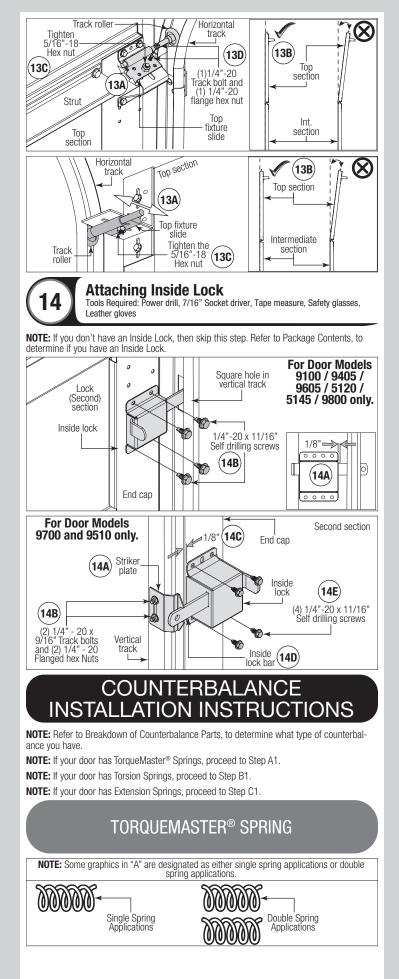
NOTE: To prevent center hinge leaf from rotating, first secure the top middle hole of the center hinge leaf with one $1/4" - 14 \times 5/8"$ self-tapping screw then secure the other two holes.

NOTE: Larger doors with double graduated end hinges, fasten both hinges to connect the sections using 1/4" - 14 x 5/8" self-tapping screws.

IMPORTANT: PUSH & HOLD THE HINGE LEAF SECURELY AGAINST THE SECTIONS WHILE SECURING WITH 1/4" - 14 X 5/8" SELF TAPPING SCREWS. THERE SHOULD BE NO GAP BETWEEN THE HINGE LEAVES AND THE SECTIONS.

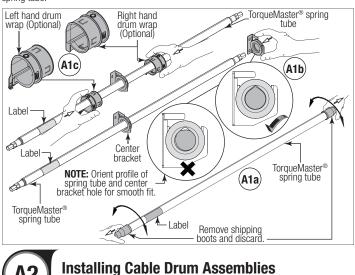








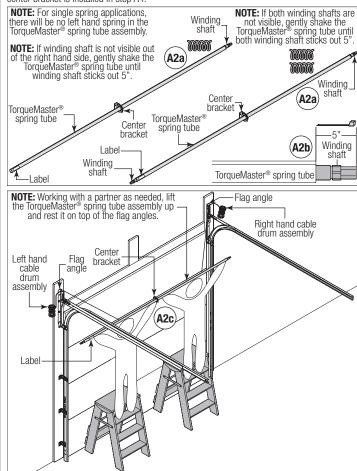
NOTE: TorqueMaster[®] springs come lubricated and pre-assembled inside the TorqueMaster[®] spring tube.



Tools Required: Tape measure, Step ladder, Safety glasses, Leather gloves

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.

NOTE: Temporarily support the center of the TorqueMaster[®] spring tube assembly until the center bracket is installed in step A4.

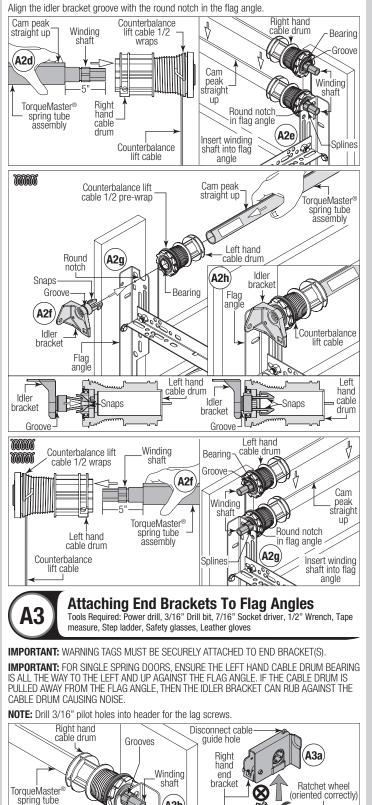


FOR SINGLE SPRING APPLICATIONS:

IMPORTANT: ENSURE THE SNAPS ON THE IDLER BRACKET (LEFT HAND SIDE) ARE EN-GAGED 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.

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



A3b

Flag

anale

Splines

Warning tag

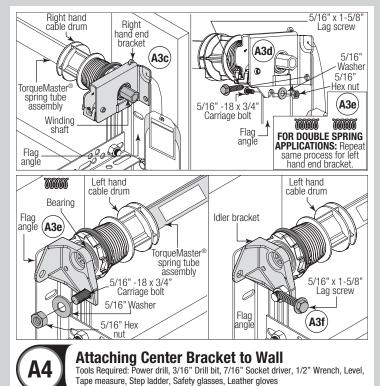
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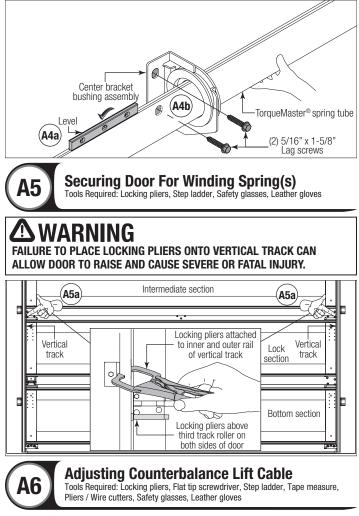
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assembly

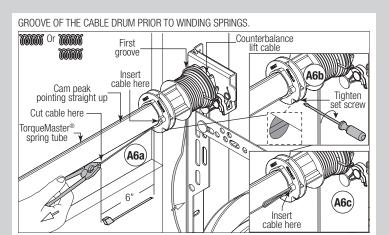


IMPORTANT: TORQUEMASTER® SPRING TUBE MUST BE LEVEL BEFORE SECURING CENTER BRACKET BUSHING ASSEMBLY TO HEADER.

NOTE: Drill 3/16" pilot holes into header for the lag screws



IMPORTANT: ENSURE THE COUNTERBALANCE LIFT CABLE IS SEATED IN THE FIRST



NOTE: Illustration shows the right hand cable drum assembly. Repeat the same process for the left hand side.

Winding Spring(s)

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

IMPORTANT: VERIFY THAT THERE ARE NO OBSTRUCTIONS IN THE TRAVEL PATH OF THE DOOR SECTIONS OR COUNTERBALANCE LIFT CABLES.

IMPORTANT: INSPECT EACH COUNTERBALANCE LIFT CABLE MAKING SURE IT IS SEATED PROPERLY ONTO THE CABLE DRUM AND THAT BOTH COUNTERBALANCE LIFT CABLES HAVE EQUAL TENSION.

PRIOR TO WINDING SPRING(S), CHECK COUNTERBALANCE LIFT CABLES FOR EQUAL TENSION:

- 1. Attach locking pliers to track above top roller.
- 2. Grasp cable at approximate mid-door height location.
- 3. Draw cable toward you about 1/2" to 1" and release, noting the response of the cable.

4. Repeat above steps for other cable.

5. Adjust cable tension as needed until right and left cables both respond the same.

WINDING SPRING IS AN EXTREMELY DANGEROUS PROCEDURE AND SHOULD BE PERFORMED ONLY BY A TRAINED DOOR SYSTEM TECHNICIAN USING PROPER TOOLS AND INSTRUCTIONS.

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

NOTE: A 3" ratchet 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.

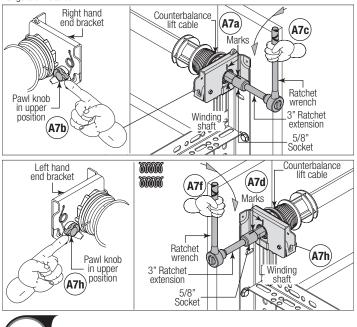
There are two methods for counting the spring turns as you wind. One method is to identify the black tooth on the ratchet wheel inside of the end bracket. When the wheel makes one revolution and the tooth returns to its starting point, one turn has been made. The other method is to make a mark on the winding shaft (or socket) and end bracket, and count your turns in this manner.

Check the label attached to the spring warning tag or the Winding Spring Turn Chart (below) for the required number of complete turns to balance your door.

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

WINDING SPRING TURN CHART		
DOOR HEIGHT	SPRING TURNS	
6'-0"	14	
6'-3"	14-1/2	
6'-5" - 6'-6"	15	
6'-8" - 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: Since total turns to balance door can deviate from winding spring turn chart values by ± 1 turn, adjustments to the recommended number of turns may be required after rear back hangs are installed.



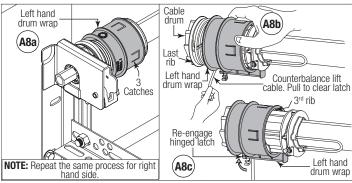


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Securing Drum Wraps (Optional) Tools Required: Step ladder, Safety glasses, Leather gloves

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

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.





Tools Required: Ratchet wrench, Socket: 1/2" 5/8", Wrench: 1/2" 5/8", 3" Ratchet extension, (2) Locking pliers, Step ladder, Tape measure, Safety glasses, Leather gloves

IMPORTANT: HOLD THE DOOR DOWN TO PREVENT IT FROM RISING UNEXPECTEDLY IN THE EVENT THE SPRING(S) WERE OVER-WOUND AND CAUTIOUSLY REMOVE LOCKING PLIERS 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.

A WARNING RAISING DOOR INTO THE LOOSE HORIZONTAL TRACKS CAN RESULT IN DOOR FALLING AND CAUSE SEVERE OR FATAL INJURY.

Clamp a pair of locking pliers 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.

Using the charts below, select the appropriate perforated angle (may not be supplied). Fabricate and install rear back hangs, as shown.

Perforated Angle Gauge Weight Limitations For TorqueMaster ${f B}$ Or Torsion Springs:		
Perforated Angle Gauge	Door Balance Weight	
2" x 2" x 12 Gauge	800 lbs. to 1600 lbs.	
1-1/4" x 1-1/4" x 13 Gauge	305 lbs. to 610 lbs.	

Perforated Angle Gauge Weight Limitations For TorqueMaster® Or Torsion Springs:		
Perforated Angle Gauge	Door Balance Weight	
1-1/4" x 1-1/4" x 15 Gauge	220 lbs. to 440 lbs.	
1-1/4" x 1-1/4" x 16 Gauge	175 lbs. to 350 lbs.	

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

Perforated Angle Gauge Weight Limitations For Extension Springs:		
Perforated Angle Gauge	Door Balance Weight	
1-1/4" x 1-1/4" x 15 Gauge	220 lbs. to 440 lbs.	
1-1/4" x 1-1/4" x 16 Gauge	175 lbs. to 350 lbs.	

🛆 WARNING

MAKE SURE BACK HANGS ARE BRACED SUFFICIENTLY TO RESIST ANY MOTION DURING SPRING APPLICATION AND DOOR TRAVEL. IF BACK HANGS PIVOT OR DEFLECT, ADD REINFORCEMENT UNTIL THEY REMAIN FIRM AND STATIONARY. ANY BACK HANG THAT HAS BENT MUST BE REPLACED.

🗥 WARNING

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

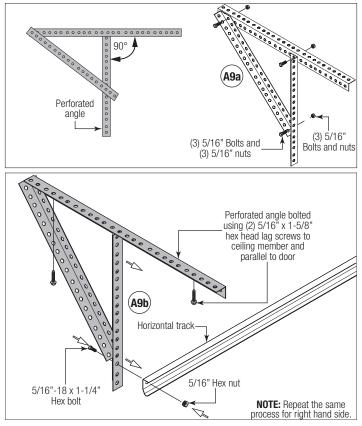
IMPORTANT: DO NOT SUPPORT THE WEIGHT OF THE DOOR ON ANY PART OF THE REAR BACK HANGS THAT CANTILEVERS 4" OR MORE BEYOND A SOUND FRAMING MEMBER.

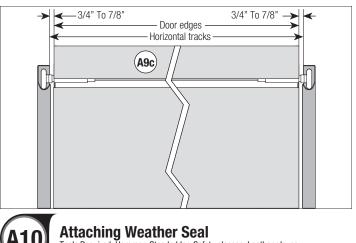
NOTE: If rear back hangs are to be installed over drywall, use (2) 5/16" x 2" hex head lag screws and make sure lag screws engage into solid structural lumber.

🗥 WARNING

FAILURE TO ASSEMBLE AND ATTACH REAR BACK HANGS PROPERLY ACCORDING TO THE ABOVE INSTRUCTIONS MAY RESULT IN DOOR FALLING WHEN RAISED, CAUSING SEVERE OR FATAL INJURY.

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

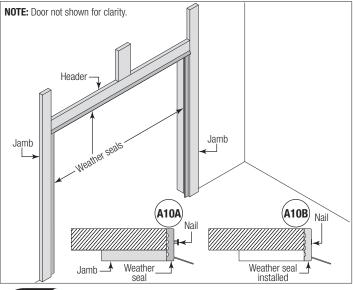




Tools Required: Hammer, Step ladder, Safety glasses, Leather gloves

Permanently attach the weatherstrips on both door jambs and header. The weatherstrips were temporarily attached in Preparing the Opening, in the pre-installation section of this manual

NOTE: When permanently attaching the weatherstrips to the jambs, avoid pushing the weatherstrips too tightly against the face of door.



Balancing Door

A11

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

NOTE: Windows may 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

Remove any locking pliers. 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 (drifts 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 locking pliers onto both vertical tracks just above the third track roller. This is to prevent the garage door from rising while adjusting the 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

WARNING WINDING SPRINGS IS AN EXTREMELY DANGEROUS PROCEDURE AND SHOULD BE PERFORMED ONLY BY A TRAINED DOOR SYSTEM TECHNICIAN USING PROPER TOOLS AND INSTRUCTIONS.

ADD SPRING TENSION: The ratchet wheel is made of 10 teeth. To add spring tension, tighten counter clockwise on the right hand side and clockwise on the left hand side. Place pawl knob in upper position. Place the ratchet with 5/8" socket and 3" ratchet extension onto the winding shaft, 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. For double spring

applications, repeat the same process for the other side.

REMOVE SPRING TENSION: To remove spring tension, place a regular 5/8" wrench onto the winding shaft. Place pawl knob in upper position.

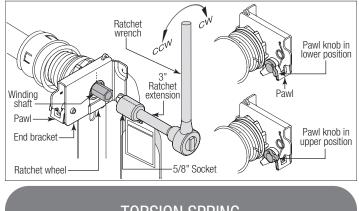
IMPORTANT: BE PREPARED TO HOLD THE FULL TENSION OF THE SPRING.

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. For double spring applications, repeat the same process for the other side.

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.) Is the door level?
- 2.) Are the TorqueMaster[®] spring tube and flag angles level and plumb?
- 3.) Does the distance between the flag angles equal door width plus 3-3/8" to 3-1/2"?
- 4.) Do the counterbalance lift cables have equal tension? Adjust if necessary.
- 5.) Rewind the spring(s).
- 6.) Make sure door is not rubbing on jambs.



TORSION SPRING

NOTE: Some graphics in "B" are designated as either single spring applications or double spring applications.



NOTE: Prior to fastening end bearing brackets into the door jamb, pilot drill using a 3/16" drill bit.

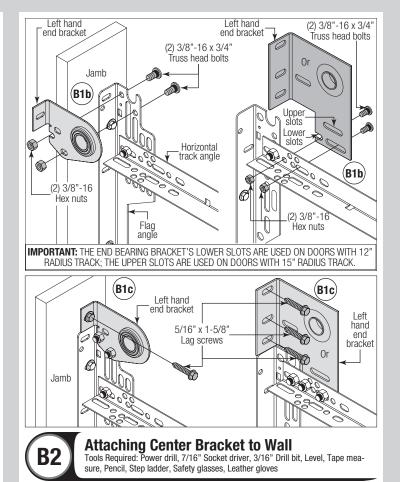
IMPORTANT: RIGHT AND LEFT HAND IS ALWAYS DETERMINED FROM INSIDE THE BUILDING LOOKING OUT.

NOTE: End bearing brackets are right and left hand.

Horizontal track angle



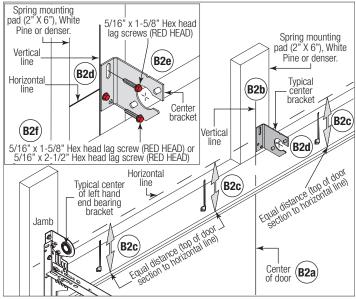
Horizontal track radius

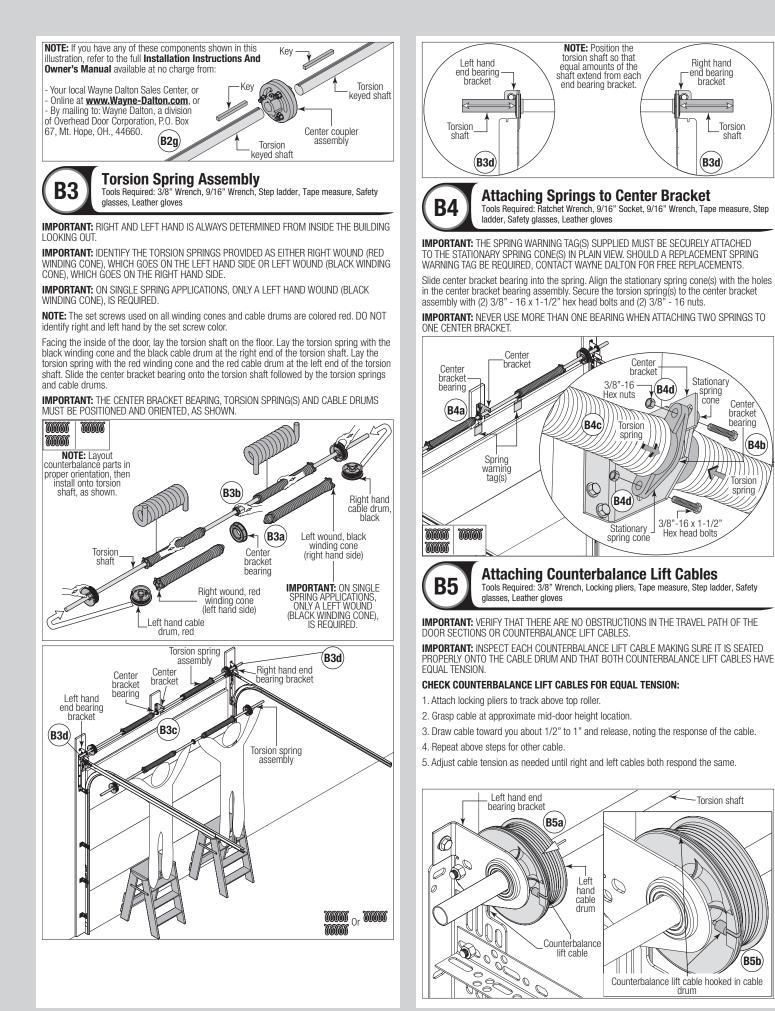


NOTE: Prior to fastening center bracket(s) to the header, pilot drill using a 3/16" drill bit.

NOTE: On some single spring doors, the spring can be longer than half the opening width. If your spring is longer, then the center bracket must be mounted off center for the spring to fit properly. Measure spring length adding room for spring growth during winding, to determine appropriate center bracket location.

IMPORTANT: USE A 5/16" X 2-1/2" RED HEAD LAG SCREW INSTEAD OF THE 5/16" X 1-5/8" RED HEAD LAG SCREW IF MOUNTING SURFACE IS COVERED BY DRYWALL. THE LAG SCREW MUST BE ATTACHED THROUGH THE BOTTOM HOLE OF THE CENTER BRACKET(S). IF MOUNTING SURFACE IS A 2" X 6" BOARD INSTALLED ON TOP OF MASONRY, DRILL A CLEARANCE HOLE IN MASONRY FOR THE 5/16" X 2-1/2" RED HEAD LAG SCREWS.





Right hand

end bearing bracket

B3d)

Stationary

spring

cone

3/8"-16 x 1-1/2

Hex head bolts

Center

bracket

bearing

Torsion

sprina

Torsion shaft

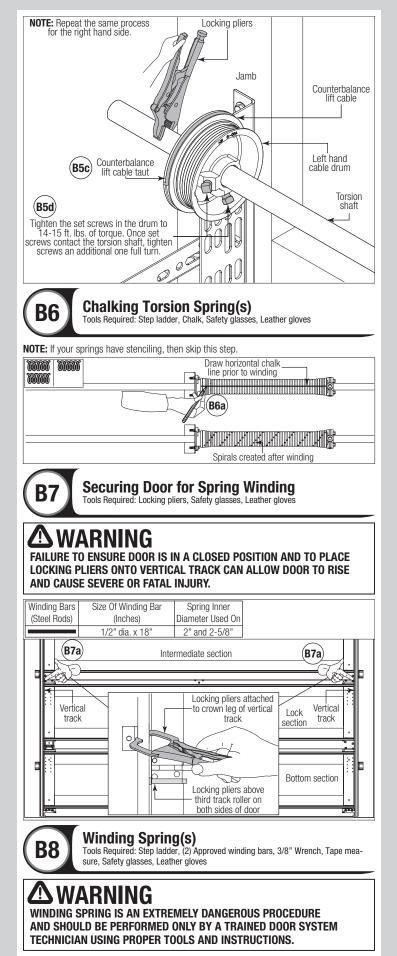
B5b

drum

(**B4b**)

Torsion

shaft



WARNING

USE ONLY SPECIFIED WINDING BARS, AS STATED IN STEP SECURING DOOR FOR SPRING WINDING (B7). DO NOT SUBSTITUTE WITH SCREWDRIVERS, PIPE, ETC. OTHER TOOLS MAY FAIL OR RELEASE FROM THE SPRING CONE AND CAUSE SEVERE OR FATAL INJURY.

WARNING

PRIOR TO WINDING THE SPRING, ENSURE YOU'RE WINDING IN THE PROPER DIRECTION AS SHOWN BELOW. OTHERWISE THE SPRING FITTING MAY RELEASE FROM SPRING AND RESULT IN SEVERE OR FATAL INJURY.

Check the label attached to the spring warning tag for the required number of complete turns to balance your door.

HOW TO WIND TORSION SPRINGS:

1. Insert one winding rod snugly into winding cone, to full socket depth

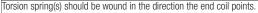
2. Maintaining a tight grip on the winding rod rotate it slowly in the proper direction, as shown below.

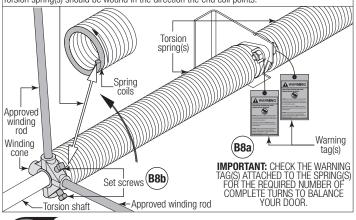
3. If there is any slippage of the winding rod in the winding cone socket, reverse the direction of winding and return the cone to its original position. Remove the winding rod from the winding cone socket. Reseat the winding rod in the socket. Start over at Step #1.

4. When the winding rod is vertical above the winding cone, insert another winding rod into one of the other sockets, being careful to seat it snugly and at full socket depth.

- 5. Hold the spring with the second winding bar, and remove the first.
- 6. Repeat Steps #2 through #5 until the complete turns have been applied.

IMPORTANT: AFTER WINDING THE SPRING(S), TIGHTEN THE SET SCREWS IN THE WINDING CONE TO 14-15 FT. LBS. OF TORQUE. ONCE SET SCREWS CONTACT THE TORSION SHAFT, TIGHTEN SCREWS AN ADDITIONAL ONE FULL TURN.





Attaching Rear Back Hangs

Tools Required: Ratchet wrench, Socket: 1/2" 5/8", Wrench: 1/2" 5/8", (2) Locking pliers, Tape measure, Level, Step ladder, Safety glasses, Leather gloves

NOTE: Complete Step A9 now to attach the Rear Back Hangs, then proceed to Step B10.

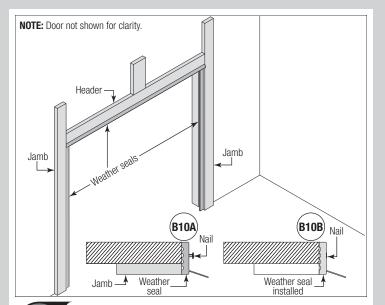


B9

Attaching Weather Seal Tools Required: Hammer, Step ladder, Safety glasses, Leather gloves

Permanently attach the weatherstrips on both door jambs and header. The weatherstrips were temporarily attached in Preparing the Opening, in the pre-installation section of this manual.

NOTE: When permanently attaching the weatherstrips to the jambs, avoid pushing the weatherstrips too tightly against the face of door.



Balancing Door

Tools Required: Step ladder, (2) Approved winding bars, 3/8" Wrench, (2) Locking pliers, Tape measure, Step ladder, Safety glasses, Leather gloves

Remove Locking pliers. Lift door and check its balance. Adjustments to the required number of spring turns stated may be necessary. If door rises off floor more than 2 ft. under spring tension alone, reduce spring tension. If the door is hard to rise or drifts down on its own, add spring tension. A poorly balanced door can cause garage door operator problems.

To adjust spring tension, fully close door. Apply locking pliers to track above third track roller. Place locking pliers on torsion shaft, as shown in C5. Insert a winding rod into the winding cone. Push upward on the winding rod slightly while carefully loosening the set screws in the winding cone.

IMPORTANT: BE PREPARED TO SUPPORT THE FULL FORCE OF THE TORSION SPRING ONCE THE SET SCREWS ARE LOOSE.

Carefully adjust spring tension 1/4 turn. Retighten both set screws to 14-15 ft. lbs. of torque in the winding cone and repeat for the other side. Recheck door balance and re-adjust spring tension if needed.

IMPORTANT: DO NOT ADJUST MORE THAN 1 TURN FROM THE RECOMMENDED NUMBER OF TURNS.

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.) Is the door level?

B1

- 2.) Are the torsion shaft and flag angles level and plumb?
- 3.) Does the distance between the flag angles equal door width plus 3-3/8" to 3-1/2"?
- 4.) Do the counterbalance lift cables have equal tension? Adjust if necessary.
- 5.) Rewind the spring(s).
- 6.) Make sure door is not rubbing on jambs.

IMPORTANT: IF DOOR STILL DOES NOT BALANCE PROPERLY, THEN CONTACT A TRAINED DOOR SYSTEM TECHNICIAN.



Attaching Rear Back Hangs

Tools Required: Ratchet wrench, Socket: 1/2" 5/8", Wrench: 1/2" 5/8", (2) Locking pliers, Tape measure, Level, Step ladder, Safety glasses, Leather gloves

NOTE: Temporarily support the horizontal track with rear back hangs as shown in Step A9, without lifting door and then proceed to Step C2.



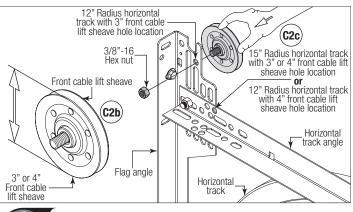
Attaching Front Cable Lift Sheaves Tools Required: 9/16" Wrench, Locking pliers, Tape measure, Level, Step ladder,

Safety glasses, Leather gloves

Horizontal track radius



Horizontal track angle



Attaching Extension Springs

Tools Required: 9/16" Wrench, Locking pliers, Tape measure, Level, Step ladder, Safety glasses, Leather gloves

3

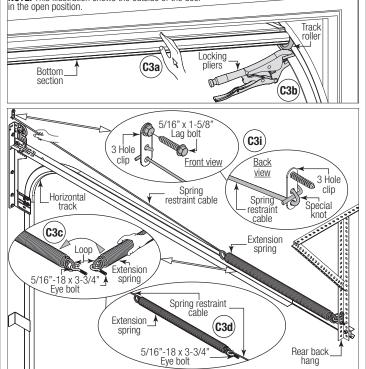
WITH ASSISTANCE, RAISE THE DOOR SLOWLY INTO THE OPEN POSITION MAKING SURE THE DOOR TRAVELS SMOOTHLY THROUGH THE TRACKS. CLAMP LOCKING PLIERS TO THE BACK LEG OF BOTH HORIZONTAL TRACKS, BELOW THE BOTTOM TRACK ROLLERS TO KEEP THE DOOR FROM LOWERING.

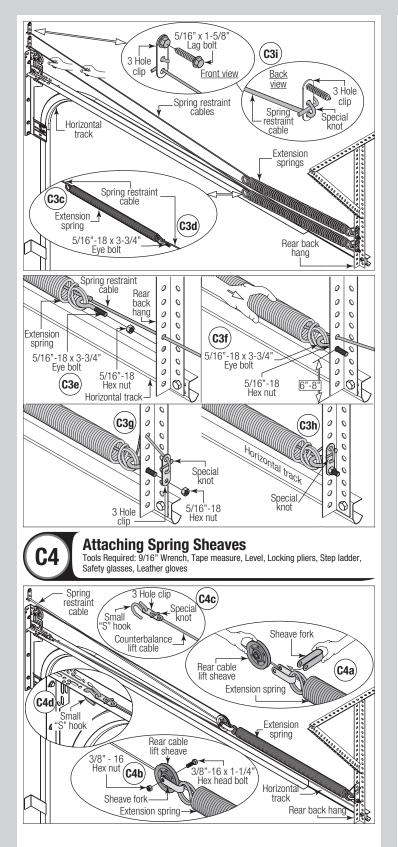
FAILURE TO INSTALL SPRING RESTRAINT CABLES CAN RESULT IN SEVERE OR FATAL INJURY IN CASE OF SPRING BREAKAGE.

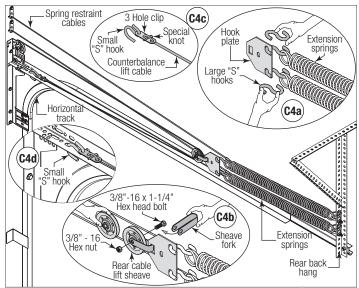
NOTE: Some larger doors feature 2 pairs of extension springs. A spring restraint cable must be installed through each spring.

IMPORTANT: SPRING RESTRAINT CABLES MUST BE TAUT AND EQUALIZED.

NOTE: This illustration shows the outside of the door



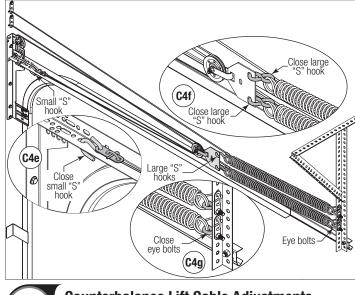




IMPORTANT: CLOSE "S" HOOKS AND EYE BOLTS WITH LOCKING PLIERS, TO PREVENT SPRINGS FROM COMING LOOSE.

🛆 WARNING

FAILURE TO CLOSE "S" HOOKS AND EYE BOLTS CAN RESULT IN SEVER OR FATAL INJURY IF SPRINGS COME LOOSE.



Counterbalance Lift Cable Adjustments Tools Required: 9/16" Wrench, Locking pliers, Tape measure, Level, Step ladder, Safety glasses, Leather gloves

Adjust counterbalance lift cables to create about 1" to 2" (25 mm to 50 mm) of initial extension spring stretch, with the door in the fully opened position. Measure relaxed extension spring length for your door height and verify with the chart below. Spring length must be the same for both extension springs to allow even door balance. Carefully remove the locking pliers from the horizontal track and lower the door into the closed position. Once the door is closed, measure the extension spring length in tension for both sides. Using the chart, verify the spring length in tension is correct with your door height.

NOTE: It may be necessary to adjust spring length for proper door balance.

Door Height	Spring Length Relaxed (Door Open)	Spring Length Extended (Door Closed)
6' 0"	25" (635 mm)	61" (1549 mm)
6' 3"	25" (635 mm)	62-1/2" (1588 mm)
6' 6"	25" (635 mm)	64" (1626 mm)
7' 0"	25" (635 mm)	67" (1702 mm)
7' 6"	27" (686 mm)	72" (1829 mm)
7' 9"	27" (686 mm)	73-1/2" (1867 mm)

C5

Door Height	Spring Length Relaxed (Door Open)	Spring Length Extended (Door Closed)	
8' 0"	27" (686 mm)	75" (1905 mm)	

Balancing Door

Tools Required: Locking pliers, Tape measure, Step ladder, Safety glasses, Leather gloves

Lift door and check its balance. If door rises off floor more than 2 ft. under spring tension alone, reduce spring tension by adjusting extension spring length, moving the "S" hook backward (towards the rear back hangs) to a different hole in the horizontal track. If the door is hard to rise or drifts down on its own, adjust extension spring length by moving the "S" hook forward (towards the header) to a different hole in the horizontal track. A poorly balanced door cause garage door operator problems.

IMPORTANT: WHENEVER ADJUSTING EXTENSION SPRING LENGTH FOR DOOR BALANCE, ALWAYS OPEN THE DOOR TO THE FULLY OPEN POSITION AND RETURN THE LOCKING PLIERS, AS SHOWN IN F3 TO THE HORIZONTAL TRACKS BELOW THE BOTTOM TRACK ROLLERS.

If the door still does not operate easily, raise the door into the open position, return the locking pliers, and recheck the following items:

1.) Is the door level?

C6

2.) Are the flag angles level and plumb?

3.) Does the distance between the flag angles equal door width plus 3-3/8" to 3-1/2"?

4.) Do the counterbalance lift cables have equal tension? Adjust by re-tieing the special knot, if necessary.

5.) Make sure door is not rubbing on jambs.

IMPORTANT: IF DOOR STILL DOES NOT BALANCE PROPERLY, THEN CONTACT A TRAINED DOOR SYSTEM TECHNICIAN.



Attaching Weather Seal

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

NOTE: Complete Step A10 now to permanently attach the weatherstrips.

Cleaning Your Garage Door

IMPORTANT: DO NOT USE A PRESSURE WASHER ON YOUR GARAGE DOOR!

While factory-applied finishes on garage doors are durable, it is desirable to clean them on a routine basis. Some discoloration of the finish may occur when a door has been exposed to dirt-laden atmosphere for a period of time. Slight chalking may also occur as a result of direct exposure to sunlight. Cleaning the door will generally restore the appearance of the finish. To maintain an aesthetically pleasing finish of the garage door, a periodic washing of the garage door is recommended.

THE FOLLOWING CLEANING SOLUTION IS RECOMMENDED: A mild detergent solution consisting of one cup detergent (with less than 0.5% phosphate) dissolved into five gallons of warm water will aid in the removal of most dirt.

NOTE: The use of detergents containing greater than 0.5% phosphate is not recommended. **NOTE:** Be sure to clean behind weatherstrips on both sides and top of door sections.

NEVER MIX CLEANSERS OR DETERGENTS WITH BLEACH.

NOTE: Do not use any window cleaning fluids, scouring compounds, gritty cloths or solvent-based cleaners of any kind.

To clean polycarbonate windows, see www.Wayne-Dalton.com

Painting Your Garage Door

Refer to Insert "Field Painting and Finishing Fiberglass or Steel Door Sections".

Maintaining The Finish On Your Garage Do<u>or</u>

NOTE: Fiberglass doors exposed to the sun's UV rays for extended periods will result in the factory top clear coat degrading and fading of the finish. Manufacturer recommends the door be inspected regularly and given a fresh top clear coat every 18 to 24 months, or more often in areas of extreme environmental exposure. Refer to Instruction Insert "Field Painting and Finishing Fiberglass Or Steel Door Sections" at www.Wayne-Dalton.com.

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 <u>www.dasma.com</u> and reference TDS 165.

WARNING

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. 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, a 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 bracket supplied with the door. To avoid possible damage to your door, Wayne Dalton recommends reinforcing the top section 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 <u>www.Wayne-Dalton.com</u>. 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 material found not to be structurally sound must be replaced. It may be necessary to uninstall part or all of the door assembly in order to replace defective material. Refer to the supplemental instructions "Removing an Existing Door / Preparing the Opening" at <u>www.Wayne-Dalton.</u> <u>com</u>. Inspect the spring(s), 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, except on bottom corner brackets or on the counterbalance assembly. 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, contact a trained door system technician.

WARNING

GARAGE DOOR SPRINGS, COUNTERBALANCE LIFT CABLES, BRACKETS, 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 MANUFACTURER'S INSTRUCTIONS.

WARNING

NEVER REMOVE, ADJUST, OR LOOSEN THE BOLTS, SCREWS AND/OR LAG SCREWS ON THE COUNTERBALANCE (END BEARING BRACKETS, DRUMS OR SPRING 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.

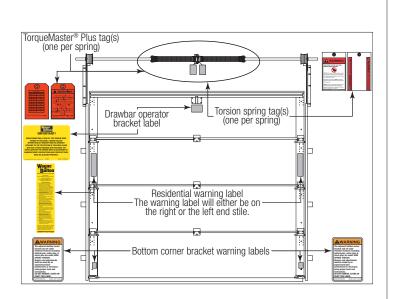
TORQUEMASTER® PLUS SPRINGS: Pawl knob(s) (located on the TorqueMaster® end brackets above the door) should be engaged to prevent the door from rapidly descending in case of spring failure or forceful manual operation.

EXTENSION SPRINGS: A restraining cable or other device should be installed on the extension spring (located above the horizontal tracks) to help contain the spring if it breaks.

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. Using handles or suitable gripping points, lift the door to check its balance. Adjust TorqueMaster® or Extension spring(s), 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 Torsion Springs yourself. To adjust TorqueMaster® or Extension spring(s), 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 hinges, steel track rollers, bearings and torsion springs (torsion spring coil surfaces). DO NOT lubricate plastic idler bearings, ny-lon track rollers, door track. DO NOT oil a cylinder lock, if actuation is difficult use a graphite dust to lubricate.

CHECK FOR PRESENCE OF SAFETY LABELS:



Limited Warranty

Models 9100, 9405, 9605, 5120, 5145, 9700, 9510 and 9800

Wayne Dalton, a division of Overhead Door Corporation ("Seller") warrants to the original purchaser of the Models 9100, 9405, 9605, 5120, 5145, 9700, 9510 and 9800 ("Product"), subject to all of the terms and conditions hereof, that the Product and all components thereof will be free from defects in materials and work-manship for the following period(s) of time, measured from the date of installation:

LIMITED LIFETIME WARRANTY* on the Product sections against:

- Peeling, cracking, or chalking of the original factory-applied coating on the steel sections of the Product.
- The Product becoming inoperable due to rust-through of the steel skin from the core of the Product section, caused by cracking, splitting, or other deterioration of the steel skin, or due to structural failure caused by separation or degradation of the foam insulation.
- The Product hardware (except springs) and the tracks.
- FOR DOOR MODELS 9700, 9510 AND 9405: Seller warrants the factory attached overlay material against peeling, cracking, chalking, fading or delamination for a period of <u>TWO (2) YEARS</u>.
- FOR DOOR MODELS 9700 AND 9405: Seller warrants those component parts of the Product not covered by the preceding provisions of this Warranty for a
 period of <u>ONE (1) YEAR</u>.
- FOR DOOR MODEL 9800: Against delamination of the fiberglass skin resulting from a defect in the fiberglass skin or peeling, cracking or fading of the original factory-applied coating. Repainting or refinishing of the Product, other than directed top clear coat maintenance, will void this warranty. A top clear coat should be reapplied if the door begins to appear dull or chalky as this will help to extend the life of the door and help preserve its original factory appearance. Color fading is not considered a factory defect and is not covered by the door warranty as detailed in this document. Refer to your care and maintenance instructions (Field Painting and Finishing Fiberglass or Steel Door Sections) for directions on maintaining your top clear coat at www.Wayne-Dalton. com.
- FOR DOOR MODELS 5120 AND 5145: <u>TEN (10) YEARS</u> on the Product sections against: i) Peeling, cracking, or chalking of the original factory-applied coating on the steel sections of the Product. ii) The Product becoming inoperable due to rust-through of the steel skin from the core of the Product section, caused by cracking, splitting, or other deterioration of the steel skin, or due to structural failure caused by separation or degradation of the foam insulation. iii) The Product hardware (except springs) and the tracks.
- FOR DOOR MODEL 5145: TWO (2) YEARS on factory attached overlay material against peeling, cracking, chalking, fading or delamination.

ONE (1) YEAR on those component parts of the Product not covered by the preceding provisions of this Warranty.

*Limited Lifetime shall mean as long as the original purchaser owns the house in which the Product is originally installed.

Seller's obligation under this warranty is specifically limited to repairing or replacing, at its option, any part which is determined by Seller to be defective during the applicable warranty period. Any labor charges are excluded and will be the responsibility of the purchaser.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is made to the original purchaser of the Product only, and is not transferable or assignable. This warranty applies only to Product installed in a residential or other non-commercial application. It does not cover any Product installed in commercial or industrial building applications. This warranty does not apply to any unauthorized alteration or repair of the Product, or to any Product or component which has been damaged or deteriorated due to misuse, neglect, accident, failure to provide necessary maintenance, normal wear and tear, acts of God, or any other cause beyond the reasonable control of Seller or as a result of having been exposed to toxic or abrasive environments, including blowing sand, salt water, salt spray and toxic chemicals and fumes.

ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN TIME TO THE APPLICABLE WARRANTY PERIOD REFLECTED ABOVE. NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE LIMITED WARRANTY PERIOD HAS EXPIRED. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

IN NO EVENT SHALL SELLER BE RESPONSIBLE FOR, OR LIABLE TO ANYONE FOR, SPECIAL, INDIRECT, COLLATERAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES, even if Seller has been advised of the possibility of such damages. Such excluded damages include, but are not limited to, loss of use, cost of any substitute product, or other similar indirect financial loss. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Claims under this warranty must be made promptly after discovery, within the applicable warranty period, and in writing to the authorized distributor or installer whose name and address appear below. The purchaser must allow Seller a reasonable opportunity to inspect any Product claimed to be defective prior to removal or any alteration of its condition. Proof of the purchase and/or installation date, and identification as the original purchaser, may be required. There are no established informal dispute resolution procedures of the type described in the Magnuson-Moss Warranty Act.

• INSTALLING COMPANY:

• INSTALLING COMPANY'S ADDRESS:

Thank you for your purchase.

PLEASE DO NOT RETURN THIS PRODUCT TO THE STORE

If you need assistance, please call 1-866-569-3799 (press Option 1) and follow the prompts to contact a customer service representative. They will be happy to handle any questions that you may have.

After installation is complete, leave this quick start guide /owner's manual with the homeowner, or fasten it near garage door for easy reference.