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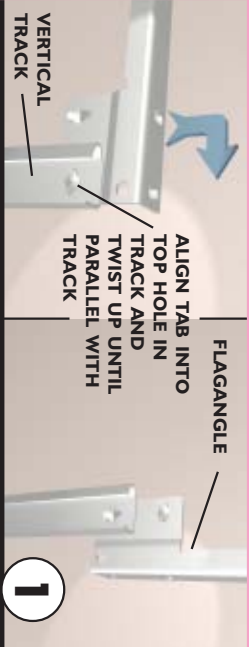
IMPORTANT! READ IMPORTANT SAFETY NOTICES AND REFER TO INSERT SHEET INSTRUCTIONS TITLED "REMOVING THE OLD DOOR/ PREPARING THE OPENING". IF THE INSERT SHEET INSTRUCTIONS ARE NOT INCLUDED, CONTACT WAYNE-DALTON CORP. FOR A FREE COPY.

If removing an existing door, carefully follow the directions given on the insert sheet instruction in the portion titled "Removing the Old Door".

WARNING!

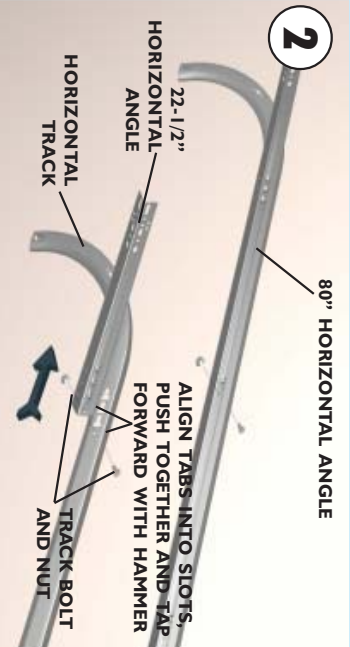
REMOVAL OF AN EXISTING DOOR CAN BE DANGEROUS. FOLLOW INSERT SHEET INSTRUCTIONS CAREFULLY, OTHERWISE SERIOUS INJURY OR DEATH COULD RESULT.

Begin the installation of the door by checking the opening. It must be the same size as the door. Vertical jambs must be plumb and the header level. Side clearance, from edge of door to wall, must be minimum of 3-1/2" (89 mm) on each side. For proper opening preparation refer to the portion of the insert sheet instructions titled "Preparing the Opening".



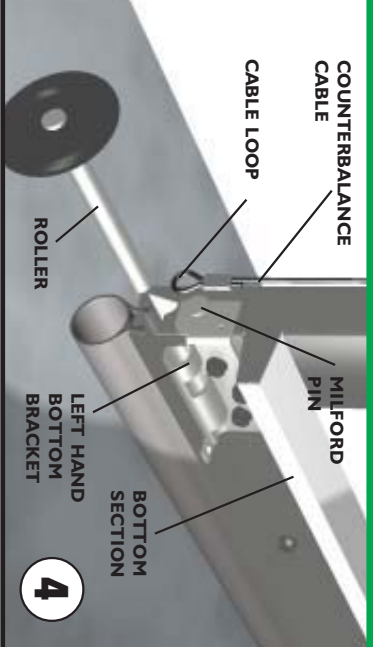
Assemble the Wayne-Dalton Twistlock™, Slidelock™ track system. First, put the Twistlock tabs on the flagangle into the Twistlock holes on the vertical track. Give the flagangle 1/4 turn to lock in place.

NOTE: Twistlock™ track components - U.S. patent no. 5,408,724 and 5,568,672.



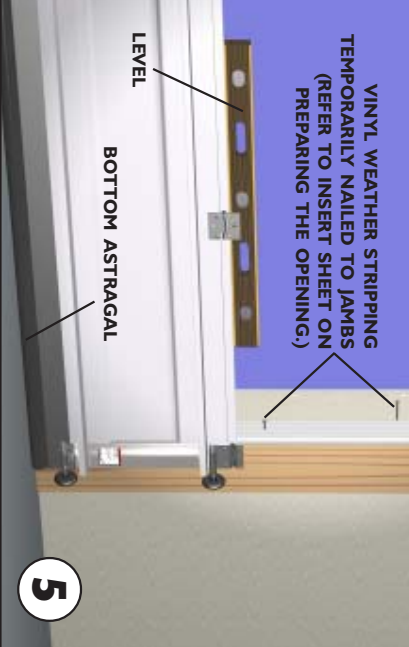
Align the Slidelock™ tabs on the applicable horizontal angle with key slots in the horizontal track. Push the parts together. Using a hammer, tap the horizontal angle towards the curved end of the track until the hole in track and angle are aligned. Extension spring doors require a track bolt and whiz nut placed in the aligned holes. Set tracks aside.

NOTE: For larger size doors, a full length horizontal angle is already spot welded to the horizontal track.



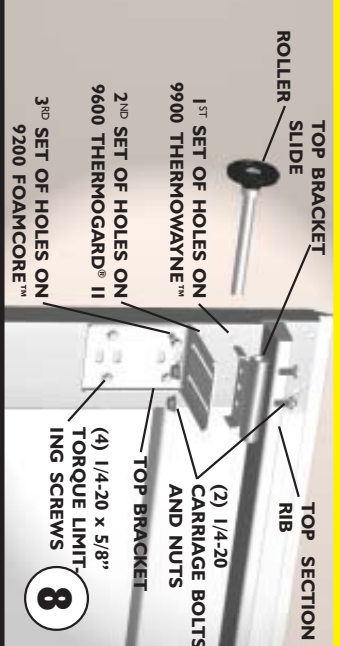
Uncoil the counterbalance cables and slip the loops at the ends of the cables over the milford pins on the bottom brackets of the bottom section. Place a roller in each of the bottom brackets, as well as the end hinges at the top of the bottom section.

IMPORTANT! Right and left hand is always determined from inside the building looking out.

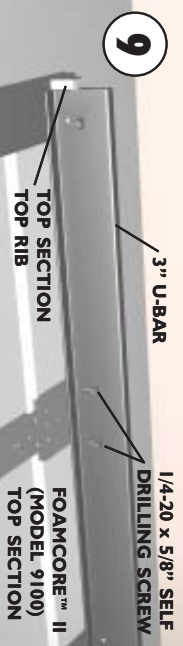


Before installing the bottom section, measure and cut vinyl jamb weatherstripping (not included) for entire garage door opening. Temporarily nail the weather-stripping to the door jambs and header. This will help hold the bottom door section in place. Refer to the insert sheet on preparing the opening.

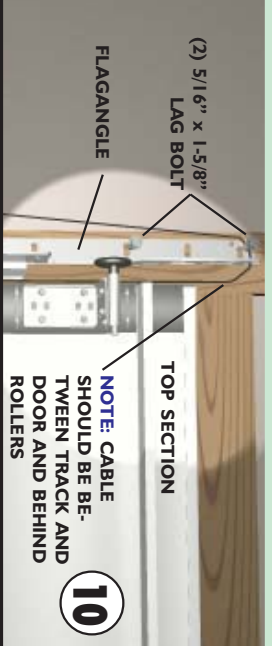
Now comes the single most important step in installing the Wayne-Dalton garage door system. Center the bottom section in the door opening. Level it using wooden shims under the bottom astragal as needed. Once the bottom section is level, all the other components will automatically align. Hold the section in the opening while attaching vertical tracks. Align the bottom of the vertical tracks with the bottom of the section. If you leveled the bottom section with shims on one side, then the vertical track on that side must be raised off the floor an amount that's equal to the thickness of the shim(s).



To install the L-shaped top brackets, align the top holes in the top bracket with the first set of holes in the endcap for 9900 Thermowayne™ doors, second set for 9600 Thermogard® doors and third set on all 9200 Foamcore™ doors. Fasten using (4) 1/4-20 x 5/8" torque limiting screws. Secure the top bracket slide to the bracket using (2) 1/4-20 carriage bolts and nuts. Insert rollers.



9200 Foamcore™ doors over 13' wide require a 3" U-Bar. Center the U-Bar over the top rib on the top section and secure it to the section using (6) 1/4-20 x 5/8" self drilling screws. Place top section in the door opening and secure it temporarily by driving a nail into the header near the center of the door and bending it over the section. Now flip, hold and fasten the hinges.



Position the flagangle 1-11/16" (43 mm) from the edge of the door. Tighten the first lag bolt then secure flagangle to the jamb with (2) 5/16" x 1-5/8" lag bolts.

IMPORTANT! Ensure that flagangles are parallel with the door sections.

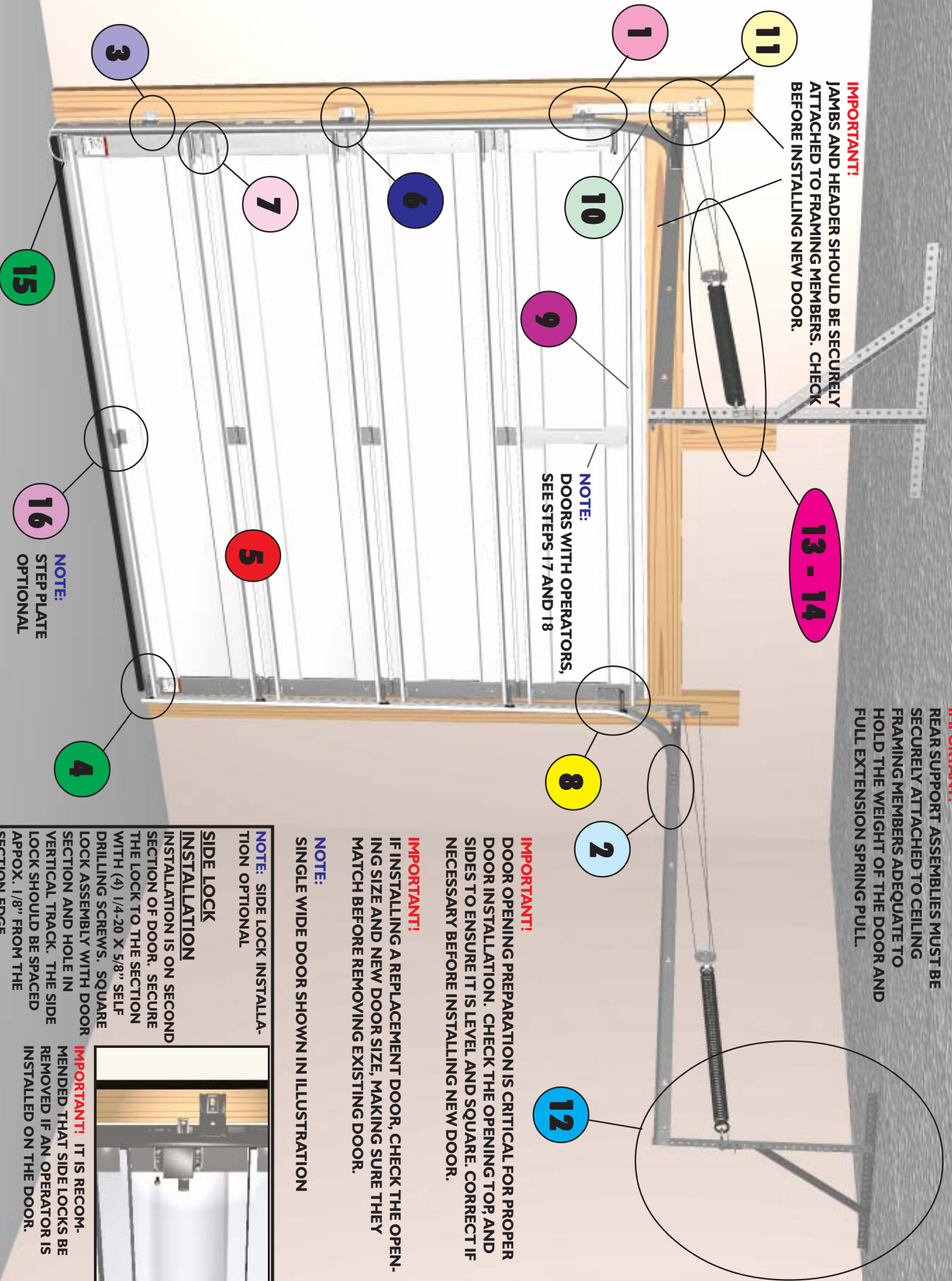
IMPORTANT! The dimension between the flagangles must be exactly door width plus 3-3/8" (86 mm) for smooth, safe door operation. Now complete the vertical track installation on both sides by securing center jamb bracket and tightening other lag bolts.

IMPORTANT!
 REAR SUPPORT ASSEMBLIES MUST BE SECURELY ATTACHED TO CEILING FRAMING MEMBERS ADEQUATE TO HOLD THE WEIGHT OF THE DOOR AND FULL EXTENSION SPRING PULL.

IMPORTANT!
 JAMBS AND HEADER SHOULD BE SECURELY ATTACHED TO FRAMING MEMBERS. CHECK BEFORE INSTALLING NEW DOOR.

13 - 14

NOTE:
 DOORS WITH OPERATORS, SEE STEPS 17 AND 18



IMPORTANT!
 DOOR OPENING PREPARATION IS CRITICAL FOR PROPER DOOR INSTALLATION. CHECK THE OPENING TOP AND SIDES TO ENSURE IT IS LEVEL AND SQUARE. CORRECT IF NECESSARY BEFORE INSTALLING NEW DOOR.

IMPORTANT!
 IF INSTALLING A REPLACEMENT DOOR, CHECK THE OPENING SIZE AND NEW DOOR SIZE, MAKING SURE THEY MATCH BEFORE REMOVING EXISTING DOOR.

NOTE:
 SINGLE WIDE DOOR SHOWN IN ILLUSTRATION

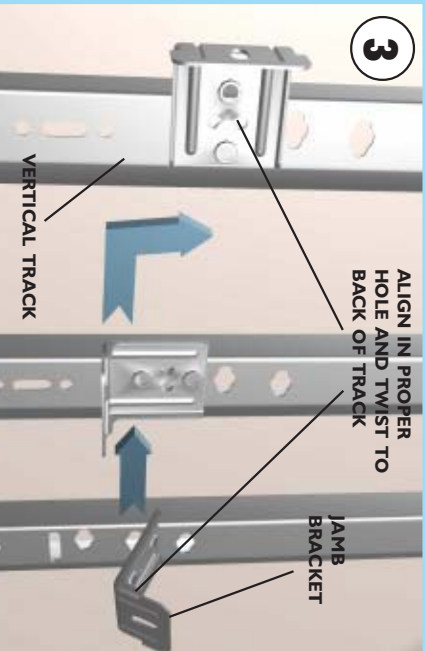
NOTE: SIDE LOCK INSTALLATION OPTIONAL

SIDE LOCK INSTALLATION

INSTALLATION IS ON SECOND SECTION OF DOOR. SECURE THE LOCK TO THE SECTION WITH (4) 1/4-20 X 5/8" SELF DRILLING SCREWS. SQUARE LOCK ASSEMBLY WITH DOOR SECTION AND HOLE IN VERTICAL TRACK. THE SIDE LOCK SHOULD BE SPACED APPROX. 1/8" FROM THE SECTION EDGE.



IMPORTANT! IT IS RECOMMENDED THAT SIDE LOCKS BE REMOVED IF AN OPERATOR IS INSTALLED ON THE DOOR.

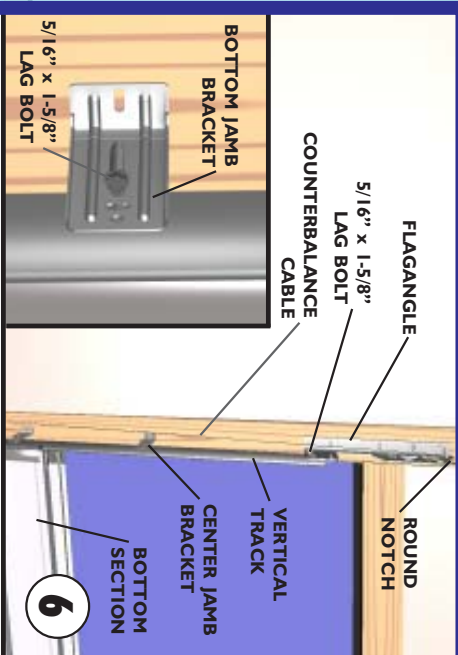


Measure the length of the vertical tracks. Using the table, determine the placement of the jamb brackets for your door height. Align the Twistlock™ wings on each jamb bracket with the correct butterfly hole in the track and turn the jamb brackets perpendicular to the track so the mounting flange is toward the back leg of the track.

DOOR HEIGHT	TL-1	TL-2	TL-3
6'0" (1626 mm)	BOTTOM	BOTTOM	N/A
6'5" (1753 mm)	MIDDLE	BOTTOM	N/A
6'6" (1778 mm)	MIDDLE	BOTTOM	N/A
6'8" (1829 mm)	BOTTOM	BOTTOM	N/A
7'0" (1930 mm)	MIDDLE	BOTTOM	N/A
7'3" (2007 mm)	BOTTOM	BOTTOM	BOTTOM
7'6" (2083 mm)	MIDDLE	MIDDLE	MIDDLE
7'9" (2159 mm)	MIDDLE	MIDDLE	MIDDLE
8'0" (4 SECTIONS) 88" TRACK (2235 mm)	MIDDLE TOP	MIDDLE TOP	MIDDLE MIDDLE

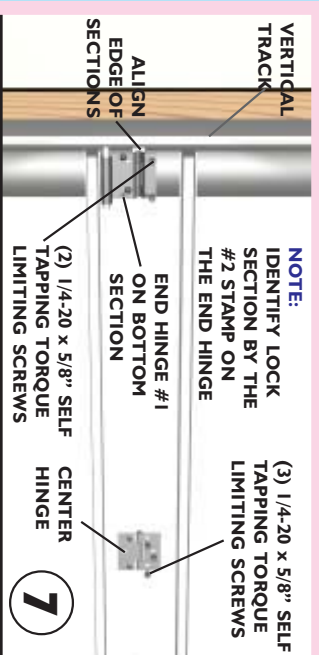


NOTE: jamb brackets are stamped for identification.



Position the first vertical track over the rollers of the bottom section. Make sure the counterbalance cable is located between the rollers and the door jamb. Align the marks on the vertical track from step 3 with the vertical track line stamp on the endcap and loosely fasten bottom jamb bracket and flagangle with (1) 5/16" x 1-5/8" lag bolt each, but do not secure the center jamb bracket yet. Install the other vertical track the same way. Run the counterbalance cables up between vertical track and edge of door section. Hang the cables over the tops of the flagangles in round notch.

IMPORTANT! The tops of the vertical tracks must be level from side to side.

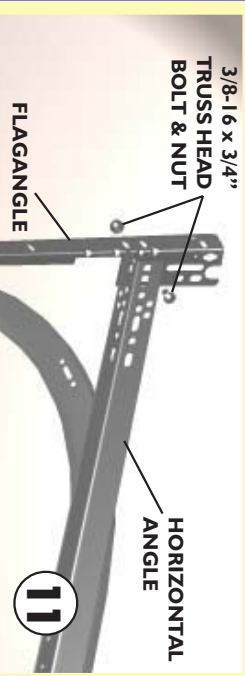


Make sure top leaves of all hinges on the bottom section are folded down. Insert rollers into the end hinges of the second section, also called the lock section. With assistance lift section and place rollers over the tops of the vertical tracks. Install by guiding rollers into the vertical track on both sides and gently lowering this section onto the bottom section. Keeping the ends of the sections aligned, install remaining section(s), except top section, in same manner. Fasten all hinges to connect the sections by flipping up the hinge leaf, holding it firmly against section and driving in the supplied 1/4-20 x 5/8" torque limiting screws.

NOTE: Two (2) 1/4-20 x 5/8" self-tapping torque limiting screws are used for each end hinge leaf, while three (3) screws are used for each center hinge. The screw placement is staggered in the end hinges, with the screw nearest the edge of the door going into the lower hole and the inside screw going into the upper hole.

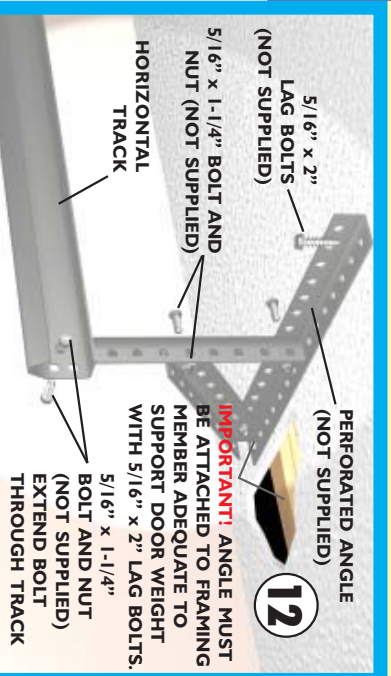
IMPORTANT! Once fastener is snug against hinge leaf, tighten an additional 1/4 to 1/2 turn to achieve maximum design holding power.

NOTE: To install lock, see lock instructions included in the lock assembly bag.



To install horizontal track, place the curved end over the top roller. Align the key slot in the track with the quick install tabs on the flagangle. With a pivoting motion, push the curved portion of the horizontal track downward to lock into place, while raising the rear of the horizontal to align the horizontal angle with the flagangle. Bolt the horizontal angle to the flagangle using (1) 3/8-16 x 3/4" truss head bolt and nut. Repeat for other side. With track installed you can adjust the top brackets. Vertically align the top section with the lower sections. Once aligned, move adjustable slide out to force top roller against horizontal track. Tighten 1/4-20 nuts to secure slide to top bracket. Repeat for other side. Remove nail that was temporarily holding top section in place.

IMPORTANT! Failure to remove nail before attempting to raise door could cause permanent damage to top section. DO NOT ATTEMPT TO RAISE DOOR AT THIS POINT.

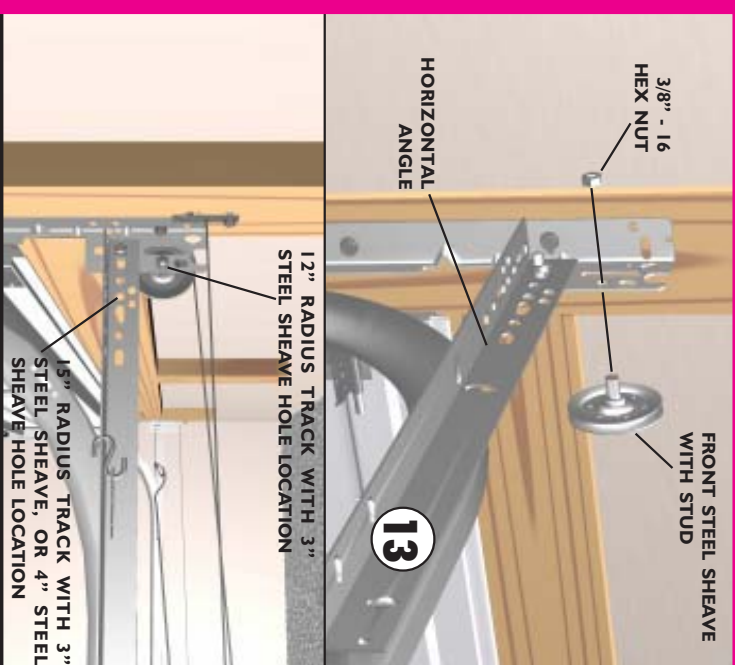


With assistance, raise door until the top section and half of the next section are in a horizontal position. Do not raise door any further since rear of horizontal track is not yet supported.

WARNING! RAISING DOOR FURTHER CAN RESULT IN DOOR FALLING AND CAUSE SEVERE INJURY OR DEATH.

Hold door in position and clamp locking pliers to back leg of the vertical track just below the second roller on each side. This will prevent door from lowering while installing the rear support. Using perforated angle, fabricate rear support for horizontal tracks as shown. Using lag bolts, make sure that support is fastened into ceiling joist, or adequate framing members to hold the weight of the door. Keeping the horizontal track parallel to the edge of the door sections, raise the horizontal track to a level position and bolt it to the rear support structure. Track must be secured and braced to prevent movement. The bolt should extend into the track to act as a roller stop. Repeat for other side.

WARNING! KEEP HORIZONTAL TRACK PARALLEL AND WITHIN 3/4" (19 MM) OF DOOR EDGE. OTHERWISE DOOR COULD FALL, RESULTING IN SERIOUS INJURY OR DEATH.



Using (1) 3/8" - 16 hex nut, secure the front steel sheave in the appropriate hole. Repeat for other side.

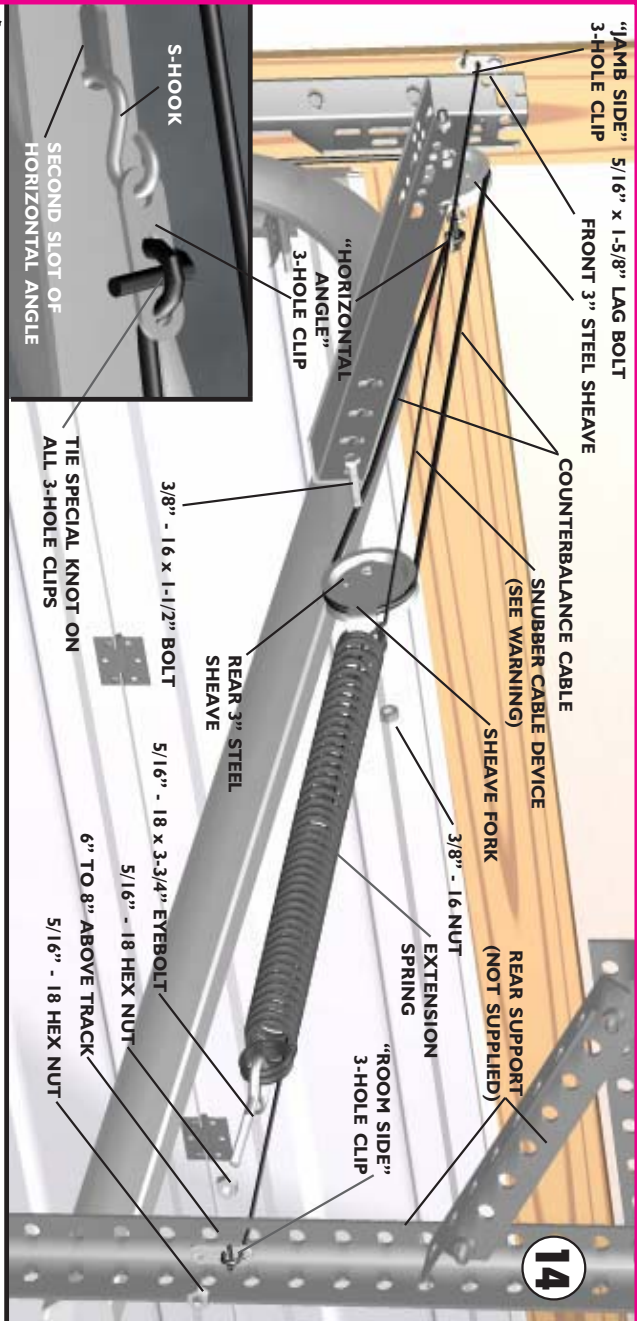
3" Steel Sheave with 12" radius track - Bolt the sheave to the 13/32" hole in the top of the flagangle.

3" Steel Sheave with 15" radius track - Bolt the sheave to the first 13/32" hole in the horizontal angle using (2) washers.

4" Steel Sheave with 12" or 15" radius track - Bolt the sheave to the first 13/32" hole in the horizontal angle using (1) washer.

Remove the locking pliers from the vertical tracks and with assistance raise the door slowly into the open position making sure the door travels smoothly through the track. Clamp locking pliers to the back leg of both horizontal tracks, below the bottom rollers to keep the door from falling.

EXTENSION SPRING LENGTH CHART	
DOOR HEIGHT	SPRING LENGTH (DOOR OPEN)
6 - 5"	25" - 27" (635 mm - 686 mm)
6 - 6"	25" - 27" (635 mm - 686 mm)
7 - 0"	27" - 29" (686 mm - 737 mm)
8 - 0"	27" - 29" (686 mm - 737 mm)



WARNING LOCKING PLIERS ARE REQUIRED TO KEEP DOOR FROM FALLING. DO NOT ATTEMPT TO WALK THROUGH DOOR OPENING OR ALLOW OTHERS TO WALK OR PLAY IN THE DOOR OPENING WHILE DOOR IS IN THE OPEN POSITION.

Position the (1) 5/16" - 18 x 3-3/4" eyebolt and (1) 5/16" - 18 hex nut in the rear support, 6" to 8" above the horizontal track. Feed the snubber cable through the rear support and tie the special knot around the "room side" 3 hole clip as shown. Secure the eyebolt and clip to the rear support with (1) 5/16" - 18 hex nut. Hook one end of the extension spring onto the eyebolt. Feed the snubber cable through end spring loop and the center of the extension spring. Pull the snubber cable taut and tie the special knot around the "jamb side" 3 hole clip. Attach the "jamb side" 3 hole clip to the jamb near the flagangle with (1) 5/16" x 1-5/8" lag bolt.

NOTE: Adjust snubber cables to be taut.

WARNING FAILURE TO INSTALL SNUBBER CABLES CAN RESULT IN SEVERE INJURY OR DEATH, IN CASE SPRING BREAKS.

Hook the sheave fork through the front loop of the extension spring and attach the sheave fork to the rear 3" steel sheave using (1) 3/8" - 16 x 1-1/4" bolt and nut. Thread the counterbalance cable over the front sheave, around the rear sheave and tie the special knot around the "horizontal angle" 3 hole clip. Insert one end of the large "S" hook in the "horizontal angle" 3 hole clip and the other end in the second slot of the horizontal angle. Close "S" hook and eye bolt to prevent springs(s) from coming loose. Repeat for the other side.

Adjust counterbalance cables to create about 1" to 2" (25 mm to 50 mm) of spring stretch. Measure relaxed spring length for your door height and verify with the Extension Spring Length Chart. Spring length must be the same for both springs to allow even door balance.

WARNING FAILURE TO CLOSE "S" HOOKS AND EY BOLTS CAN RESULT IN SEVERE INJURY OR DEATH, IN CASE SPRING COMES LOOSE.

Carefully remove the locking pliers from the horizontal track and lower the door into the closed position. Once the door is closed, measure the 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.

Permanently attach the vinyl weather stripping to both door jambs and the header. Now lift the door and check it's balance. If the door is hard to pull down or lifts by itself, adjust spring length by moving the "S" hook backward (towards the rear support) to a different hole in the reinforcing angle. If the door is difficult to lift or too easy to pull down, adjust spring length by moving the "S" hook forward (towards the header) to a different hole in the reinforcing angle.

IMPORTANT! Whenever adjusting spring length for door balance, always open the door to the fully open position and return the locking pliers to the horizontal tracks below the bottom rollers.

If the door still does not operate easily, lower the door into the closed position and recheck the following items:

- 1.) Check the door for level.
- 2.) Check the flagangles for level.
- 3.) Check the distance between the flagangles - must be door width plus 3-3/8" + 1/4" - 0" (86 mm + 6 mm - 0 mm).
- 4.) Check the counterbalance cables for equal tension - adjust by re-tieing the special knot.



IMPORTANT SAFETY NOTICES

Wayne-Dalton Corp.
P.O. Box 67

Mr. Hope, Ohio 44660

Read these instructions carefully before attempting installation. If in question about any of the procedures, do not perform the work. Instead, have a qualified door agency do the installation or repairs.

1. Wear protective gloves during installation to avoid possible cuts from sharp metal edges.
2. It is always recommended to wear eye protection when using tools, otherwise serious eye injury could result.
3. Avoid installing your new door on windy days. Door could fall during the installation and cause damage and personal injury.
4. If the door is to be electrically operated at any time, all pull ropes **MUST** be removed to prevent injury or death to children who may become entangled in the rope. The locking mechanism **MUST** also be disengaged.
5. Operate door **ONLY** when properly adjusted and free of obstructions.
6. Should the door become hard to operate or completely inoperative, a qualified door agency should correct the problem to prevent damage to the door or serious personal injury.
7. **DO NOT PERMIT** children to play with the garage door or the electrical controls. Fatal injury could result, should the child become entrapped between the door and the floor.
8. To prevent serious injury or death, avoid standing in the open doorway or walking through the doorway while the door is moving.
9. Door is constantly under **EXTREME SPRING TENSION**. To prevent possible serious injury or death, adjustments, repairs, removal or installation, **ESPECIALLY of SPRING ASSEMBLIES, CABLES or BOTTOM CORNER BRACKETS**, should be performed **ONLY** by qualified door service people.
10. If your existing garage door opener does not have a reversing mechanism, you should consider purchasing one that has up to date safety features. These features can prevent opener related property damage or personal injury.
11. Check all bolted connections monthly during the lifetime of the door to prevent damage or personal injury caused by loose connections.
12. Definition of key words used in this manual:

⚠ WARNING! -- Indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.

IMPORTANT! -- Required step for safe and proper door operation.

NOTE: -- Information assuring proper installation of the door.

MAINTENANCE AND PAINTING INSTRUCTION FOR PREPAINTED STEEL DOORS

MAINTENANCE

While factory-applied finishes for steel garage doors are so durable that they will last many years longer than ordinary paints, it is desirable to clean them thoroughly on a routine basis. Apparent discoloration of the paint may occur when it has been exposed in dirt-laden atmospheres for long periods of time. Slight chalking may also cause some change in appearance in areas of strong sunlight. A good cleaning will generally restore the appearance of these coatings and render repainting unnecessary. An occasional light cleaning will also help maintain an aesthetically pleasing appearance. To maintain the original finish of the garage doors, the only regular maintenance necessary is that of annual washing. Mild solutions of detergents or household ammonia will aid in the removal of most dirt, and the following are recommended levels:

One cup of Tide™, or other common detergents, which contain less than 0.5% phosphate, dissolved into five gallons of warm water. **NOTE:** The use of detergents containing greater than 0.5% phosphate is not recommended for use in general cleaning of garage doors. **CAUTION: NEVER MIX CLEANSERS OR DETERGENTS WITH BLEACH.**

SURFACE PREPARATION FOR PAINTING

Wax on the surface must be removed or paint peeling/flaking will result. To remove this wax, it will be necessary to lightly scuff the surface with a gray (not green!) 3M ScotchBrite pad saturated with soapy water. A final wipe and rinse should be done with clean water only, to remove any loose dust or soap film.

Surface scratches, which have not exposed the metal substrate, can be lightly buffed or sanded with 0000 steel wool or No. 400 sand paper to create a smoother surface. Care must be taken to not expose the substrate under the paint (see Note No. 2). Once this exposed condition exists, the likelihood for rusting is greatly increased. See the following paragraph if the metal substrate is observed.

Exposed substrate must be treated to prevent rust from forming (see Note No. 2). Sand the exposed area lightly and paint with high quality metal primer to protect from corrosion. Follow drying time on primer can label before applying topcoat.

The surface to be recoated must not be to smooth or the repaint material will not adhere to it (see Note No. 2). It is advisable to test a representative area to evaluate adhesion. If poor adhesion is observed, the surface must be abraded by sanding or buffing using grades mentioned above. Care must be taken to not expose the substrate under the paint.

PAINTING

After the surface has been properly prepared it must be allowed to dry thoroughly, then coated immediately with a premium quality latex house paint. Follow the paint label directions explicitly. Oil base paint is not recommended. Please note that if substrate is exposed, painting with latex paint may cause accelerated rusting of steel.

NOTES:

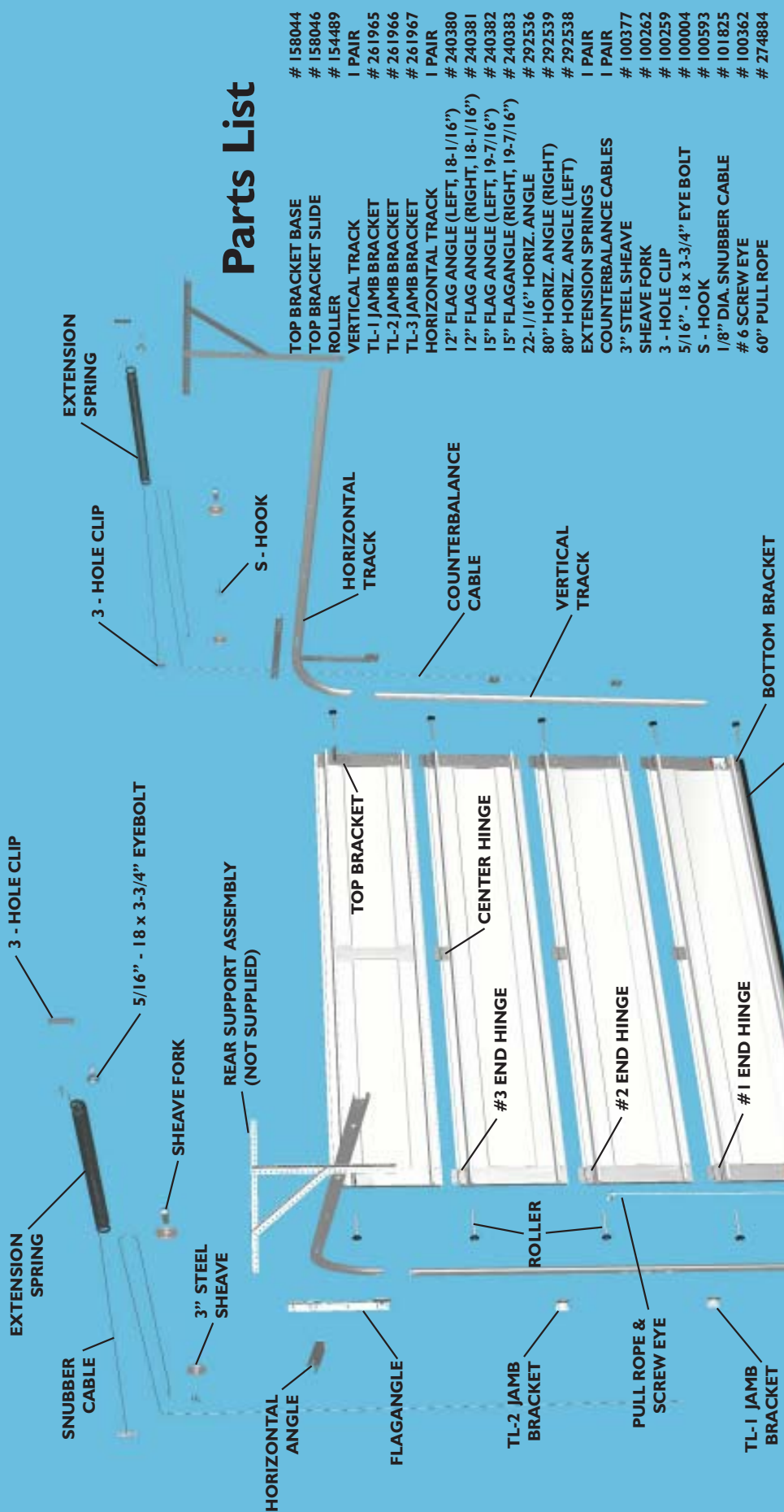
1. Repainting of finish painted steel doors cannot be warranted as this condition is totally beyond door manufacturer's control.
2. If the steel door surface has a finish painted textured surface representing wood grain, stucco, etc., this step should not be attempted as danger of exposing substrate is greatly increased.
3. Consult a professional coatings contractor if in doubt about any of the above directions.
4. Follow directions explicitly on the paint and solvent container labels for proper applications of coatings and disposal of containers. Pay particular attention to those directions involving acceptable conditions in which to paint.

ACRYLIC GLAZING CLEANING INSTRUCTIONS:

1. To clean acrylic glazing wash with plenty of nonabrasive soap or detergent and water. Use the bare hand to feel and dislodge any caked dirt or mud. A soft, grit-free cloth, sponge or chamois may be used to wipe the surface. Do not use hard or rough cloth that will scratch the acrylic glazing. Dry with a clean damp chamois.
2. Grease and oil may be removed with kerosene or a good grade of naphtha (No aromatic content.) Users of these solvents should become familiar with their properties to handle them safely.
3. **Do not use:** Window cleaning fluids, scouring compounds, gritty cloths, leaded or ethyl gasolines, or solvents such as alcohol, acetone, carbon tetrachloride, etc.



Extension Spring and Owners Manual



Parts List

- # 158044 TOP BRACKET BASE
- # 158046 TOP BRACKET SLIDE ROLLER
- # 154489 I PAIR VERTICAL TRACK
- # 261965 TL-1 JAMB BRACKET
- # 261966 TL-2 JAMB BRACKET
- # 261967 TL-3 JAMB BRACKET
- # 240380 HORIZONTAL TRACK
- # 240381 12" FLAG ANGLE (LEFT, 18-1/16")
- # 240382 12" FLAG ANGLE (RIGHT, 18-1/16")
- # 240383 15" FLAG ANGLE (LEFT, 19-7/16")
- # 240383 15" FLAG ANGLE (RIGHT, 19-7/16")
- # 292536 22-1/16" HORIZ. ANGLE
- # 292539 80" HORIZ. ANGLE (RIGHT)
- # 292538 80" HORIZ. ANGLE (LEFT)
- I PAIR EXTENSION SPRINGS
- I PAIR COUNTERBALANCE CABLES
- # 100377 3" STEEL SHEAVE
- # 100262 SHEAVE FORK
- # 100259 3 - HOLE CLIP
- # 100004 5/16" - 18 x 3-3/4" EYE BOLT
- # 100593 S - HOOK
- # 101825 1/8" DIA. SNUBBER CABLE
- # 100362 # 6 SCREW EYE
- # 274884 60" PULL ROPE

NOTE: DEPENDING ON YOUR DOOR MODEL, SOME PARTS LISTED MAY NOT BE SUPPLIED IF NOT NECESSARY.



9900 Thermowayne™ 9600 Thermogard® 9200 Foamcore™

Wayne-Dalton Corp.

P.O. Box 67, Mt. Hope, Ohio

44660

www.wayne-dalton.com

LIFETIME LIMITED WARRANTY

The Manufacturer warrants the **9900 THERMOWAYNE, 9600 THERMOGARD and 9200 FOAMCORE** insulated garage door for as long as you own the door from the time of installation against structural failure (rendering the door inoperable) of the door sections due to separation/ degradation of foam insulation. Other conditions and exceptions as contained herein apply.

The Manufacturer warrants the steel skin of the **9900 THERMOWAYNE, 9600 THERMOGARD and 9200 FOAMCORE** insulated garage door for as long as you own the door from the time of installation against deterioration such as cracking or splitting due to rust-through. Other conditions and exceptions contained herein apply.

The Manufacturer warrants the garage door hardware and track, excluding springs, for as long as you own the door against defects in workmanship or material from time of installation.

After a period of **TWENTY YEARS** from time of installation, replacement of **LIFETIME LIMITED WARRANTY** materials are prorated at 50 percent of Manufacturer's published pricing at time of claim.

This warranty extends only to the original homeowner, providing the door is installed in his/her place of primary residence. It is not transferable. The warranty applies to residential property only and is not valid on commercial or rental property.

The Manufacturer warrants that any parts of the door not covered by the above limited warranty will be free from defects in workmanship and material for **ONE YEAR** from the time of installation.

The Manufacturer shall, upon notification, correct any nonconformity at its option, by repairing, replacing, or refunding original purchase price of any defective part(s). This warranty covers material only and excludes all other charges incurred.

NO EMPLOYEE, DISTRIBUTOR, OR REPRESENTATIVE IS AUTHORIZED TO CHANGE THE FOREGOING WARRANTIES IN ANY WAY OR GRANT ANY OTHER WARRANTY ON BEHALF OF MANUFACTURER.

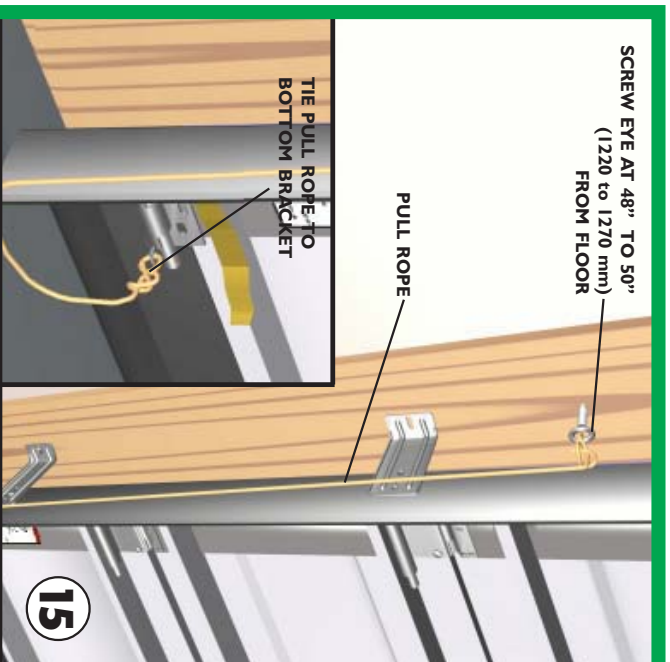
The Manufacturer shall not be responsible for any damage resulting to or caused by its products by reason of installation, improper storage, unauthorized service, alteration of products, neglect or abuse, or attempt to use the products for other than the customary usage or for their intended purposes. The **9900 THERMOWAYNE, 9600 THERMOGARD and 9200 FOAMCORE** warranty becomes null and void if the door is punctured with any hole or if a hole is drilled into the door sections other than those specified in the notes of installation. This warranty does not cover the product due to circumstances such as normal wear, damage from corrosive fumes or substances, fire, condensation, vandalism, acts of God, or other causes beyond Manufacturer's control, nor replacement or repair labor.

THIS WARRANTY COVERS A CONSUMER PRODUCT AS DEFINED BY THE MAGNUSON-MOSS WARRANTY ACT. NO WARRANTIES, EXPRESSED OR IMPLIED, (INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), SHALL EXTEND BEYOND THE APPLICABLE TIME PERIOD STATED IN BOLD FACE TYPE ABOVE.

Claims for defects in material and workmanship covered by this warranty shall be made in writing to the dealer from whom the product was purchased within the warranty period. Manufacturer may either send a service representative or have the product returned to the Manufacturer at Buyer's expense for inspection. If judged by Manufacturer to be defective in material or workmanship, the product will be replaced or repaired at the option of Manufacturer, free from all charges except authorized transportation and replacement labor.

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SCREW EYE AT 48" TO 50"
(1220 to 1270 mm)
FROM FLOOR

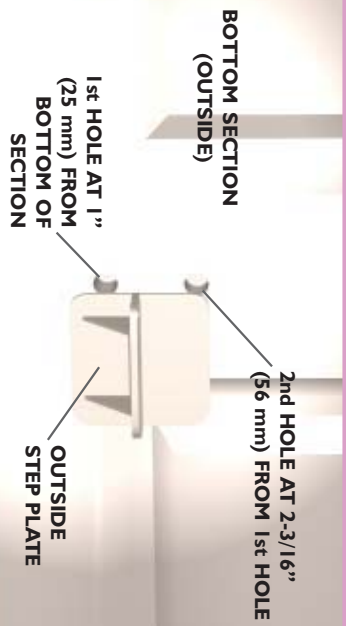
PULL ROPE

**THE PULL ROPE TO
BOTTOM BRACKET**

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Twist the No. 6 screw eye into the wood jamb approximately 48" to 50" (1220 to 1270 mm) from the floor. Tie the pull rope to the screw eye and to the bottom bracket as shown.

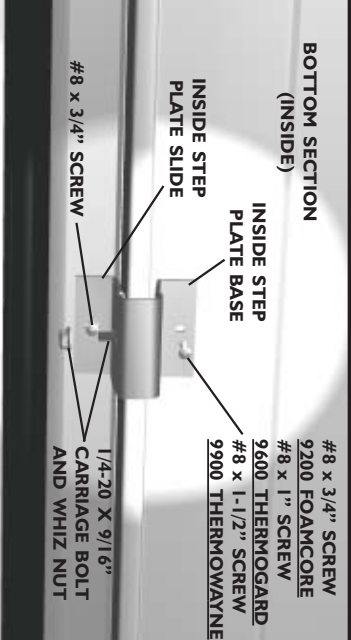
WARNING!
DO NOT INSTALL PULL ROPES ON DOORS WITH ELECTRIC OPERATORS. CHILDREN MAY BECOME ENTANGLED IN THE ROPE CAUSING INJURY OR DEATH.



16

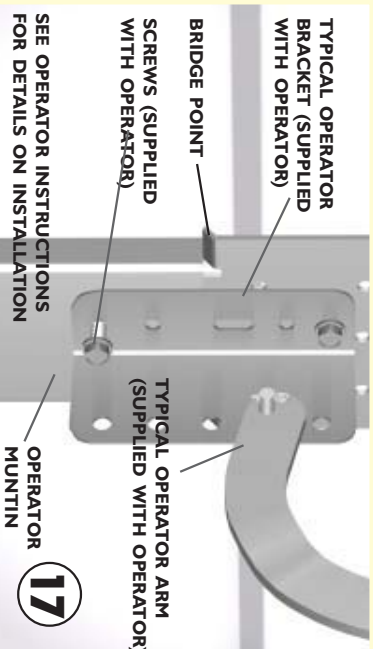
To install the step plate raise the door to a comfortable working height and secure with locking pliers to the track. Locate the step plate in the center of any stile on a raised panel door. Make one mark 1" (25 mm) up from the bottom edge and another mark 2-3/16" (56 mm) up from the first mark. Drill a 7/16" (11 mm) hole through the section at each mark and insert the step plate. Loosely fasten step plate slide to base with (1) 1/4-20 x 1/2" carriage bolt and nut. Align inside step plate holes and fasten from inside using the #8 screws provided. Install one #8 x 3/4" screw in the bottom step plate hole. In the top hole use the #8 x 3/4" screw when attaching step plates to 9200 Foamcore™, use the #8 x 1" screw when attaching step plates to 9600 Thermogard® and use the #8 x 1-1/2" screw when attaching step plates to 9900 Thermowayne™. Tighten 1/4-20 carriage bolt and nut.

NOTE: Step plates are optional on 9900 Thermowayne™, 9600 Thermogard®, and 9200 Foamcore™ door models.



TYPICAL OPERATOR INSTALLATION

If you are installing an electric operator on your door, the following information is provided to ensure proper function of your door/operator installation. Figure 21 shows a typical means of connecting the operator arm to the operator stile located in the center of the top section.

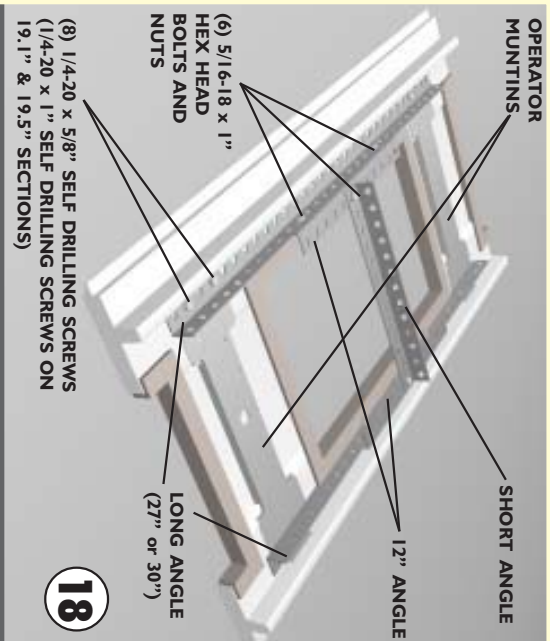
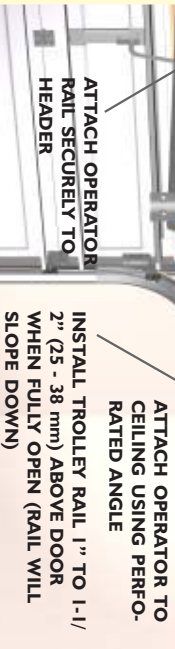


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1. Follow the installation instructions supplied with your operator.
2. Reinforce top section per manufacturer's recommendation prior to attaching operator.
3. Install trolley rail 1" to 1-1/2" (25 - 38 mm) above high arc of top section of the door.
4. Mount operator to ceiling so that 1" to 1-1/2" (25 - 38 mm) clearance is maintained between trolley rail and top section when door is fully open (trolley rail will slope down towards rear).
5. The operator bracket must be mounted to the operator stile on the top section so it bridges the transition point in section thickness.

INSTALLATION TIPS:

WARNING!
OPERATOR MUST BE TESTED AT TIME OF INSTALLATION AND MONTHLY THEREAFTER TO ENSURE THAT DOOR REVERSES ON CONTACT WITH 2 X 4 BOARD LAID FLAT UNDER THE DOOR. FAILURE TO ADJUST OPERATOR, IF NECESSARY, CAN RESULT IN SEVERE INJURY OR DEATH. IF YOUR OPERATOR IS EQUIPPED WITH PHOTOELECTRIC SYSTEM, THEN THIS MUST BE TESTED AT THE SAME TIME TO ENSURE THAT DOOR DOES NOT CLOSE AND A CLOSING DOOR OPENS IF SYSTEM IS OBSTRUCTED. FAILURE TO MAKE ADJUSTMENTS, IF NECESSARY, CAN RESULT IN SEVERE INJURY OR DEATH.



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NOTE: On doors with StyleLine™ odd number panels (5 or 7), you will be required to fabricate an operator bridge assembly as shown above. This can be constructed from one (1) 10 ft. section of perforated angle or with the rear track hanger kit (p/n 161587).

1. Measure the distance from the outside to outside of the operator muntins. Typical lengths for the long angle are 27" if you have 8-16 lite and 30" if you have 9-18 lite. Cut two (2) pieces of perforated angle the required length.
2. Cut two (2) pieces of perforated angle that are 12" long.
3. Cut (1) short angle piece of perforated angle 12" if you have a 19,1" or 19,5" section, 13" if you have 20,8" section, and 16" if you have a 23,8" section.
4. If you have a 20,8" or 23,8" section, attach the first two (2) long angles using (2) 1/4-20 x 5/8" self drilling screws in each end. If you have a 19,1" or 19,5" section, use 1/4-20 x 1" self drilling screws and three (3) 1/4" flat washers as spacers underneath the angle at each screw location.

NOTE: Washers are used to clear the window frame.

5. Attach the 12" piece to the center of the long angle using two (2) 5/16-18 x 1" hex head bolts and nuts. Repeat for the other long angle.
6. Center the short angle to the 12" angles previously installed, using two (2) 5/16-18 x 1" hex head bolts and nuts (it may be necessary to enlarge hole in angle).
7. Refer to Figure 17 and the Installation Tips for attaching your operator arm.