

INSTALLATION AND MAINTENANCE MANUAL FOR RESIDENTIAL DOORS

READ AND KEEP FOR FUTURE REFERENCE

This manual describes the installation of a garage door (panels, rails, springs, hardware, and weather stripping). This booklet will be an indispensable work tool for you.

It is recommended that you read it carefully before starting any work. Keep in mind that your garage door must be installed properly to ensure reliable, safe, and long-lasting performance.

The installation of a garage door and its components can be a **DANGEROUS** undertaking and could result in serious injury. Please contact one of our distributors for more information. You will thus be guaranteed a completely **SAFE** installation that will ensure optimal performance of your Garex door.

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You can download the english version of this document free of charge from our website:

www.garexdoors.com/en/documentation

La version française de ce document peut être téléchargée gratuitement à partir de notre site web:

www.portesgarex.com/fr/documentation



This handbook contains the necessary steps to install and maintain your garage door.

Should you have any questions during the installation process, please do not hesitate to contact us:

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READ THIS INSTALLATION MANUAL CAREFULLY AND KEEP IT FOR FUTURE REFERENCE



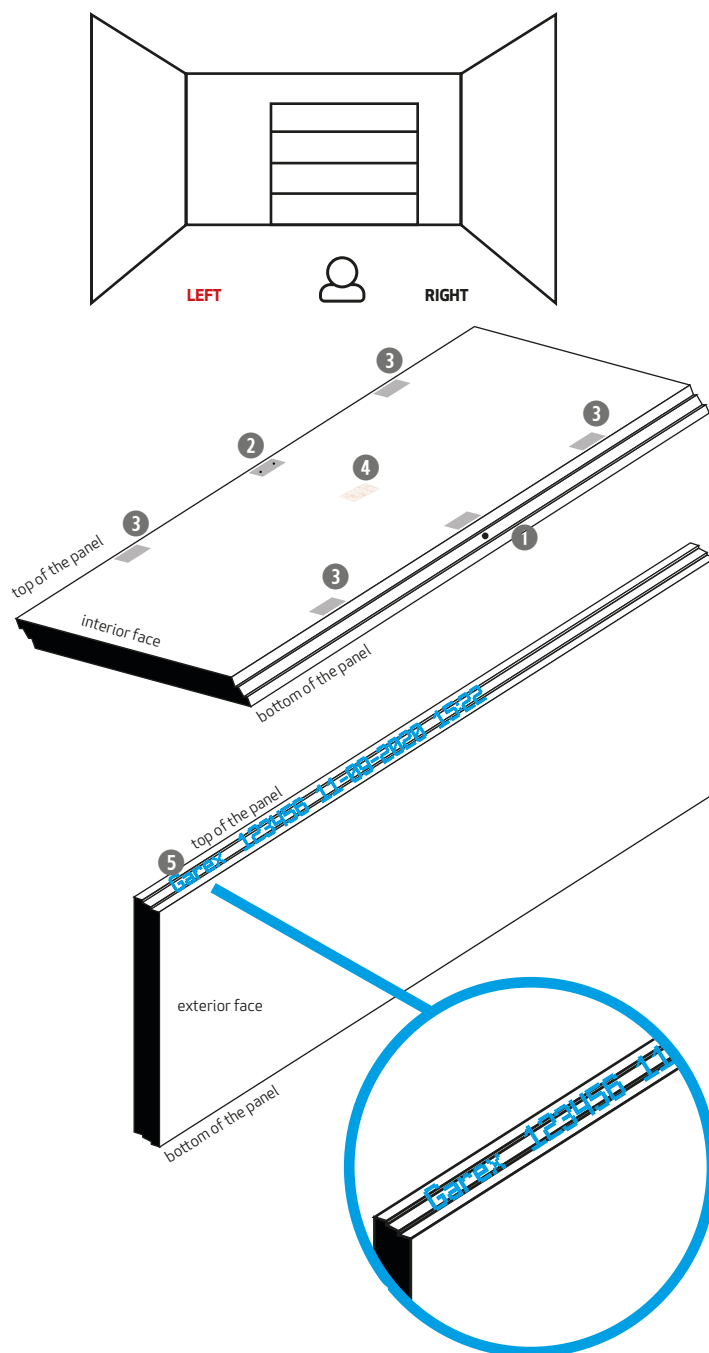
We strongly recommend that Garex garage doors be installed by professionals. This will ensure that your Garex door is perfectly safe and will guarantee its optimal operation.

**READ THIS MANUAL IN FULL BEFORE INSTALLING AND USING
YOUR NEW GARAGE DOOR.**

IMPORTANT NOTES

IN THIS MANUAL, **LEFT** AND **RIGHT** ARE DEFINED WHEN OBSERVING THE OPENING OF THE DOOR FROM INSIDE THE GARAGE.

- ❶ The injection hole is ALWAYS at the bottom of the panels (see diagram).
- ❷ The punches on the sheet metal on the inside of the panels indicate the location of the steel reinforcement plates and where the central hinges are to be installed.
- ❸ Internal reinforcement plates are installed at the ends for the double hinges as well as the bottom and top brackets, the handles, and the operator (see diagram). Note that these plates have no punch to locate them.
- ❹ A wood block is installed on request for the installation of the central lock (see diagram).
- ❺ Each panel is identified in the top seal. There you will find the name Garex, the **production number**, the date and time of production of the panel (see diagram).



GENERAL INSTRUCTIONS



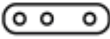



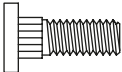


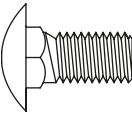


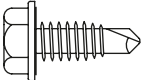


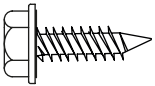
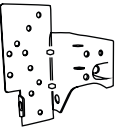
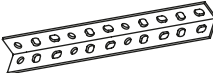
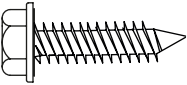


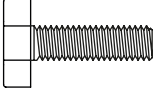

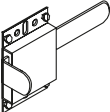
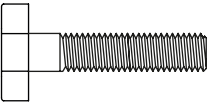
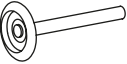


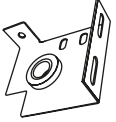
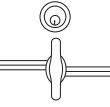





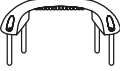
- ❶ The hinges must be installed as close as possible to the panel edges.
- ❷ Top brackets should be installed approximately +/- 2 " from top of section in the top panel, except for industrial or low headroom doors.
- ❸ Torsion springs have a direction of operation, make sure you install them on the correct side.
- ❹ **RED** indicates the **LEFT** from inside.
- ❺ **BLACK** indicates the **RIGHT** from inside.
- ❻ The centre of the shaft must be centred on the opening.
- ❼ The curved part of the tracks is installed over the horizontal tracks.

In order to facilitate the installation, we suggest the following method:

1. Place the panels in order of installation, from bottom to top.
2. Position the tracks on either side of the door.
3. Position the shaft and springs on the correct side.
4. Group identical items together to make them easier to find.

HARDWARE

Garex doors include hardware components* and a spring kit with additional instructions for proper installation. Some parts will be installed on the **LEFT** or **RIGHT** side of the door. Make sure you identify and separate the parts shown in the table.

	8 x 1 1/8" #2 Square head screw		Hinge #1		3 Holes Cable plate
	3/4" 18 TPI Self-Drilling metal screw		Hinge #2		Pulley support
	1/4" x 3/4" Track bolt		Hinge #3		Pulleys
	5/16" x 3/4" Carriage Bolt		Half-Hinge (optional)		Cables
	1/4" x 1" Hex Head Self Tapping Screw		Corner Support		Drum
	1/4" x 1 1/4" Hex Head Metal Screw		LHR Corner Support		Perforated Horizontal Angle
	5/16" x 1 1/2" Hex Head Metal Screw		Top Bracket		Security Cables (for extension springs)
	5/16" x 3/4" Hex Head Bolt		Top Bracket (reduced spaces)		Side Lock (optional for 1 3/8" doors)
	3/8" x 1 1/2" Hex Head Bolt		Roller		Cable Lock (optional)
	1/4" Nut		End Bearing Plate		Rod Lock (optional)
	5/16" Nut		Threaded Open Eye Bolt		Interior Handle (optional)
	3/8" Nut		"S" Hook		Exterior Handle (optional)

*The part drawings in the above table are for illustrative purposes only and do not represent the contents of any particular door model. (Not real size)

MISSING PARTS?

Make sure you have the **production number of the door**.

Contact us! Parts will be replaced as soon as possible!

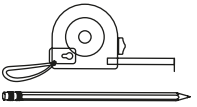


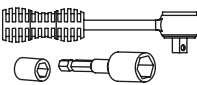



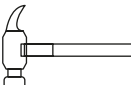
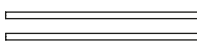
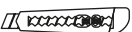
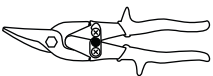
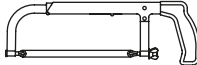

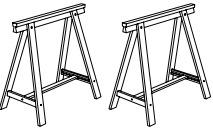

Toll free line at **1 800 748-3317**

NEED REPLACEMENT PARTS?

Replacement parts are available from your authorized dealer. For fast processing of your replacement part order, have the part name, model number, and door width and height (W x H) ready.

To find a retailer near you, visit our website at www.garexdoors.com

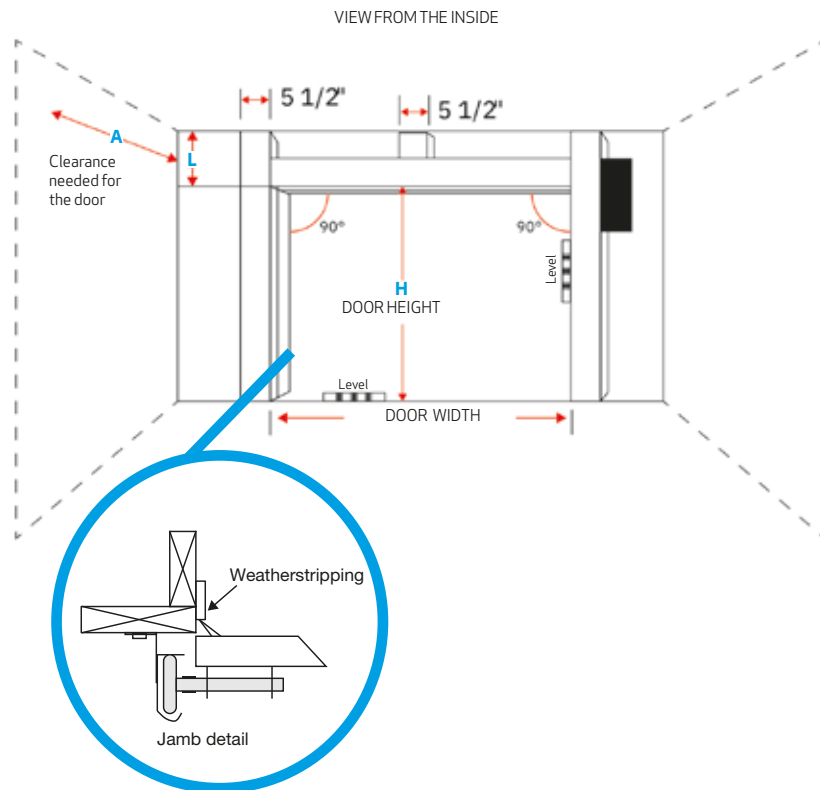
TOOLS REQUIRED

 <p>Measuring Tape</p> <p>Pencil</p>	 <p>Level</p>	 <p>Flat Screwdriver</p>
 <p>$\frac{1}{16}$" , $\frac{1}{2}$" , $\frac{3}{16}$" Ratchet and bits</p>	 <p>Open End Wrench $\frac{1}{4}$" , $\frac{1}{2}$" , $\frac{3}{16}$"</p>	 <p>Adjustable Wrench</p>
 <p>Pair of Locking pliers (Vise-Grip)</p>	 <p>Hammer</p>	 <p>$\frac{1}{2}$" x 18" Metal Bars</p>
 <p>Utility Knife</p>	 <p>Sheet Metal Chisel</p>	 <p>Metal Saw</p>
 <p>- Hammer Drill - $\frac{3}{8}$" Borer Bit - # 2 Square Bit - $\frac{1}{16}$" Hex Bit</p>	 <p>Pair of trestles</p>	 <p>Stepladder</p>

STEP 1 - Preparation of the opening

ON-SITE VERIFICATIONS PRIOR TO INSTALLATION

- 1.1. Check the width and height of the opening to make sure it matches the door to be installed.
- 1.2. Check the height between the floor and the ceiling to ensure that the track configuration is adequate for the space available.
- 1.3. Make sure the floor is level.
- 1.4. Make sure that jambs are level and perpendicular (at 90 °) to the upper lintel.
- 1.5. Make sure the extension of the jambs and supports for the rails as well as the springs are installed.
- 1.6. Make sure that there are no constraints for the operation of the door, for example: pedestrian door, lighting, windows, etc.



"L" CLEARANCES

	RAYON			
	LHR	10" (254 mm)	12" (305 mm)	15" (381 mm)
RESIDENTIAL HARDWARE				
2" (50,8 mm) extension	4" (101,6 mm)	8 1/2" (215,9 mm)	10" (254 mm)	S.O.
2" (50,8 mm) rear torsion	5" (127 mm)	S.O.	S.O.	S.O.
2" (50,8 mm) front torsion	8 1/2" (215,9 mm)	10" (254 mm)	12" (305 mm)	15" (381 mm)
COMMERCIAL HARDWARE				
2" (50,8 mm) rear torsion	5" (127 mm)	S.O.	S.O.	S.O.
2" (50,8 mm) front torsion	8 1/2" (215,9 mm)	S.O.	12" (305 mm)	15" (381 mm)
INDUSTRIAL HARDWARE				
3" (76,2 mm) rear torsion	10" (254 mm)	S.O.	S.O.	S.O.
3" (76,2 mm) front torsion	12" (305 mm)	S.O.	S.O.	16" (406,4 mm)
3" (76,2 mm) more than 18' (5486,4 mm) high and/or 1000 lbs				18" (457,2 mm)
DOOR OPERATION				
extension	S.O.	11" (280 mm)	13" (330 mm)	S.O.
torsion	S.O.	12" (305 mm)	14" (355 mm)	S.O.

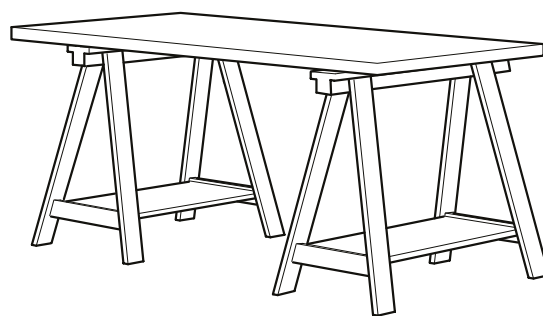
"A" CLEARANCES

CLEARANCE NEEDED FOR THE DOOR	
manually	H + 12" (305 mm)
door opener	H + 40" (1016 mm)

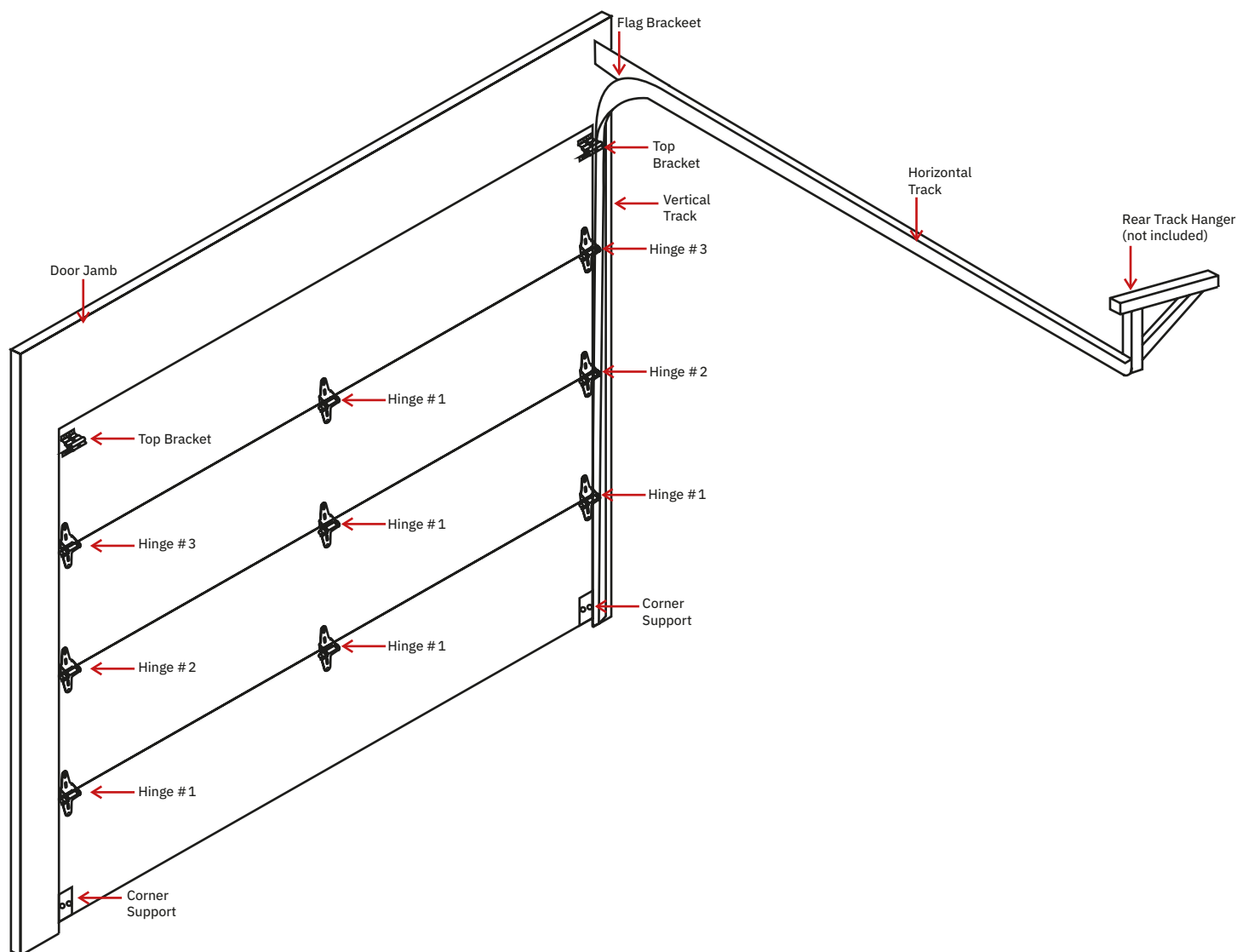
STEP 2 - Panel preparation (installation hardware components)

Your door panels are identified as follows:

- Bottom :** panel # 1
- Bar-lock :** panel # 2
- Inter :** panel # 3
- Top :** panel # 4



i The hinges in the middle of the door are always the # 1.



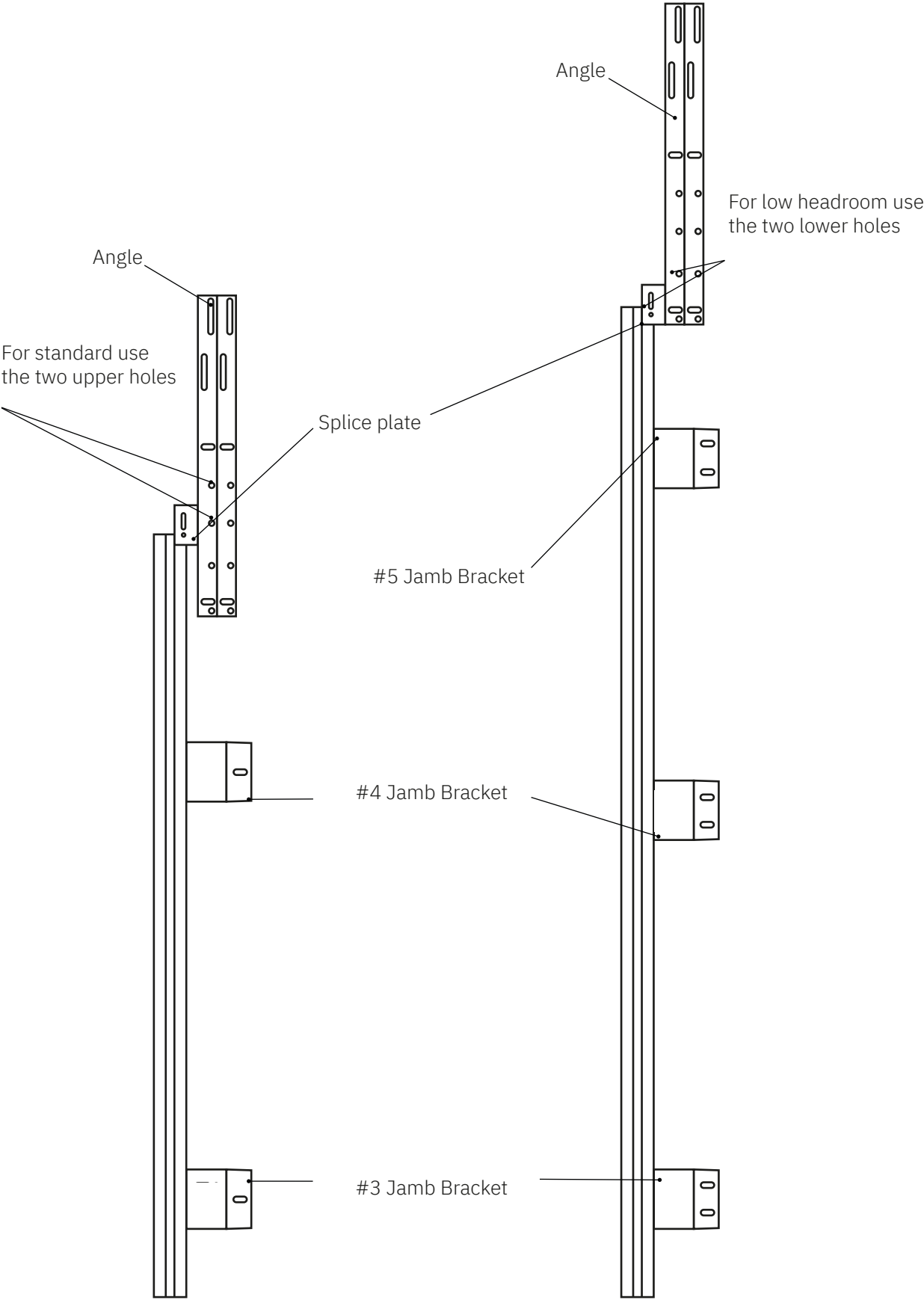


Figure 3. Location of anchor plates for hinges on 1 3/4" thick panels.

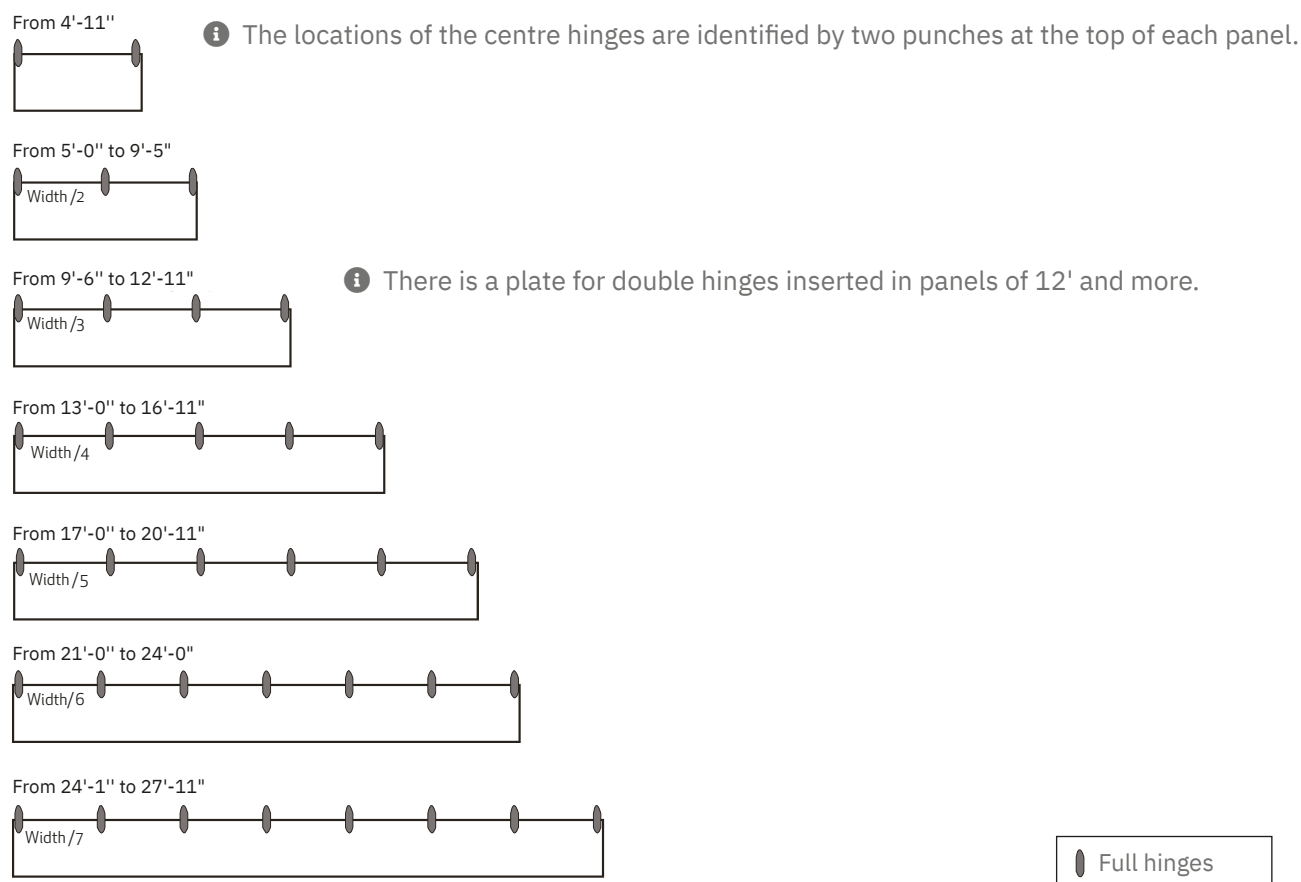
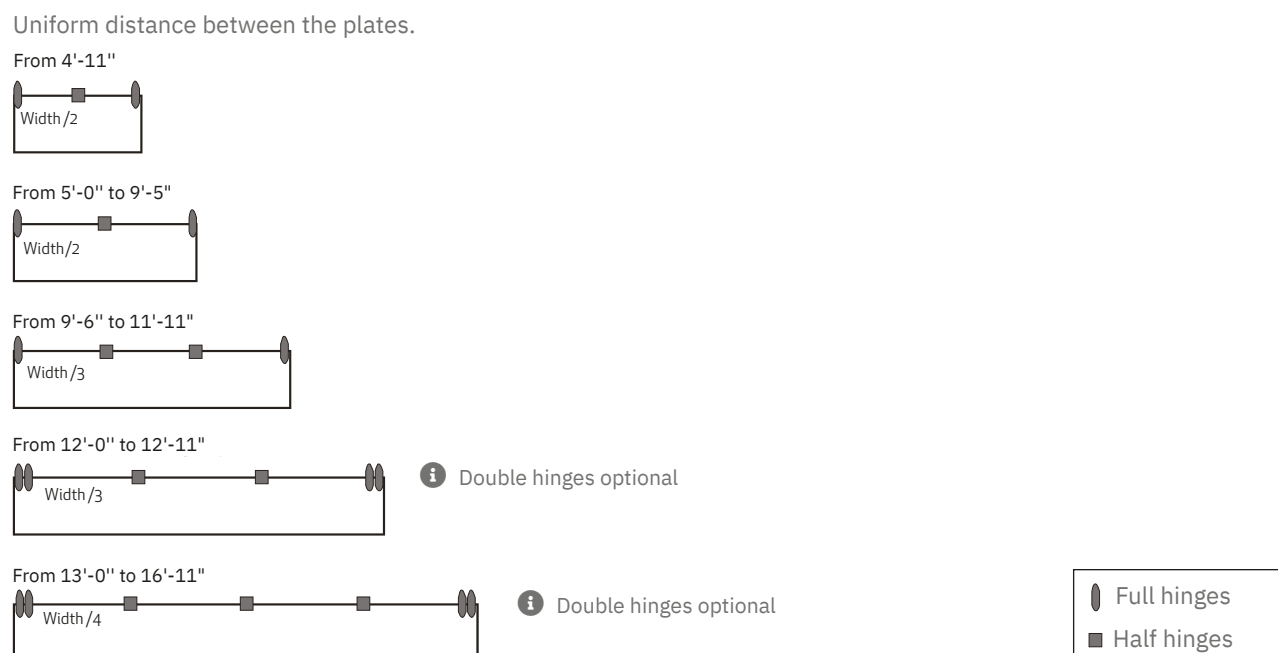
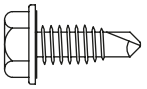


Figure 4. Location of anchor plates for hinges and half-hinges on 1 3/8" thick panels.



In this section you will need the following parts:



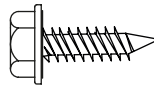
1/4" x 1"
Hex Self Tapping
Screw



#1 Hinge



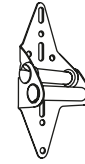
Half Hinges
(optional)



1/4" x 1 1/4"
Hex Head
Metal Screw



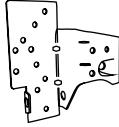
#2 Hinge



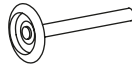
#3 Hinge



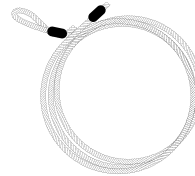
Corner Support



LHR Corner Support

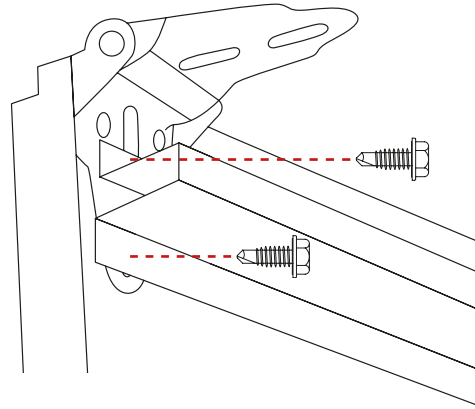


Rollers



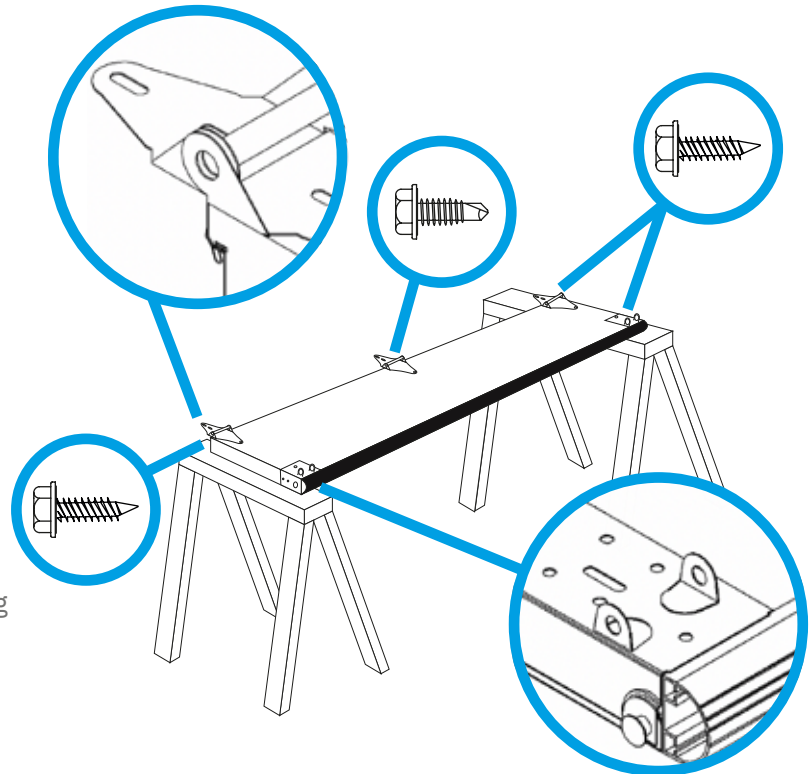
Cable

If your door is larger than 14', reinforcement bars must be installed at the top of the #1 and #2 panels.



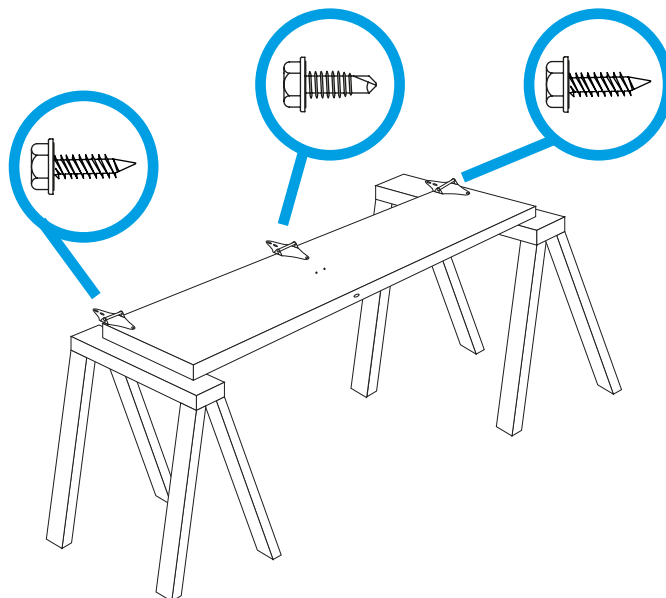
Panel #1 - bottom panel with moulding and astragals

- Place the panel identified "bottom" on two trestles with the outside face down.
- Determine the location of the punches along the panels (interior side) that indicate the location of the anchor plates to screw your centre hinge in place (see Figure 3).
- Install the **bottom brackets** on each side aligned to the moulding with 1/4" x 1 1/4" Hex Head Metal Screw
- Install the cables in the anchor points on the side of the bottom brackets.
- In the centre of the panel, use the 1/4" x 1" self-drilling screws to install the **#1 hinge** by referring to the punches stamped on top of the panel. Use the 1/4" x 1 1/4" Hex Head Metal Screw to install the **#1 hinge** on each side.



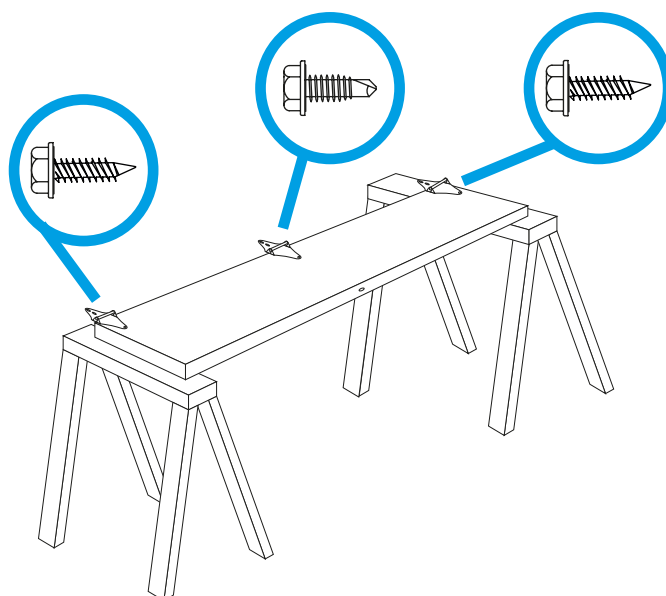
Panel # 2 - "bar lock" panel

- Place the panel identified "**barlock**" on two trestles with the outside face down.
- Determine the location of the punches along the panels (interior side) that indicate the location of the anchor plates to screw your centre hinge in place (see Figure 3).
- Use the $\frac{1}{4}$ " x $1\frac{1}{4}$ " Hex Head Metal Screw to install the **#2 hinges** at the top of the panel on each side.
- Use the $\frac{1}{4}$ " x 1" self-drilling screws to install the **#1 hinge** by referring to the punches stamped on top of the panel.



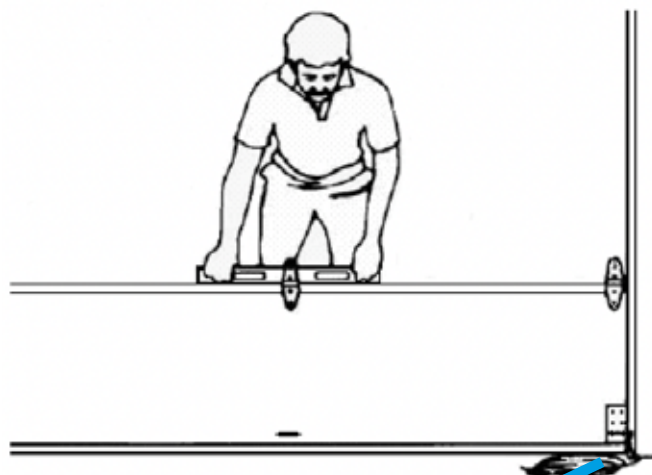
Panel # 3 - "inter" panel

- Place the panel identified "**inter**" on two trestles with the outside face down.
- Determine the location of the punches along the panels (interior side) that indicate the location of the anchor plates to screw your centre hinge in place (see Figure 3).
- Use the $\frac{1}{4}$ " x $1\frac{1}{4}$ " Hex Head Metal Screw to install the **#3 hinges** at the top of the panel on each side.
- Use the $\frac{1}{4}$ " x 1" self-drilling screws to install the **#1 hinge** by referring to the punches stamped on top of the panel.

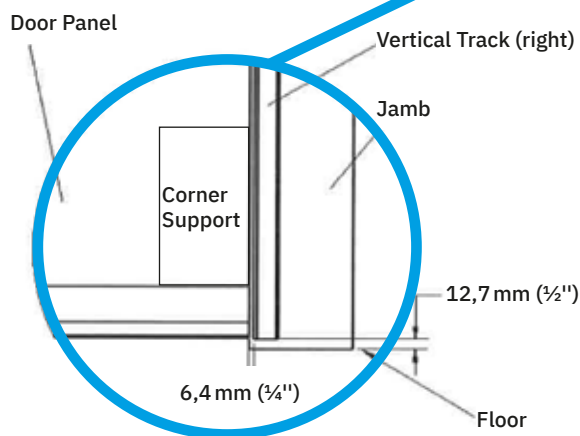


STEP 3 - Installing bottom, bar lock and inter panels.

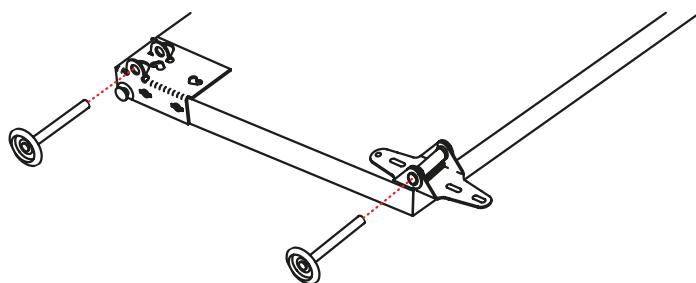
- Place the bottom panel in the centre of the opening. Check its level, correct the level with a shim if necessary.
 - If your panel is narrower than the opening, you can put a wooden slat temporarily installed in the frame to prevent your panel from sticking out.*
 - If a shim is required, make sure that it will be wide enough to rest the vertical track on top of it, by doing so the panel and the track will be level.*



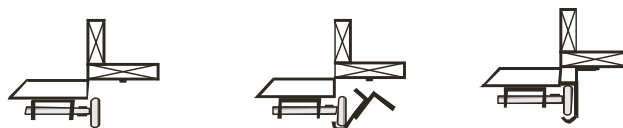
- Position the **RIGHT** vertical track at about a $\frac{1}{4}$ " of the bottom panel. The track must be parallel to the bottom panel. Set it on the wall and make sure everything is leveled.



- Insert the rollers into the hinge and bottom bracket on the right side of the bottom panel.



- Position the right vertical track at approximately $\frac{1}{4}$ " from the floor. Place the track parallel to the bottom panel while keeping $\frac{1}{2}$ " in between. Make sure everything is level and secure the track to the wall.



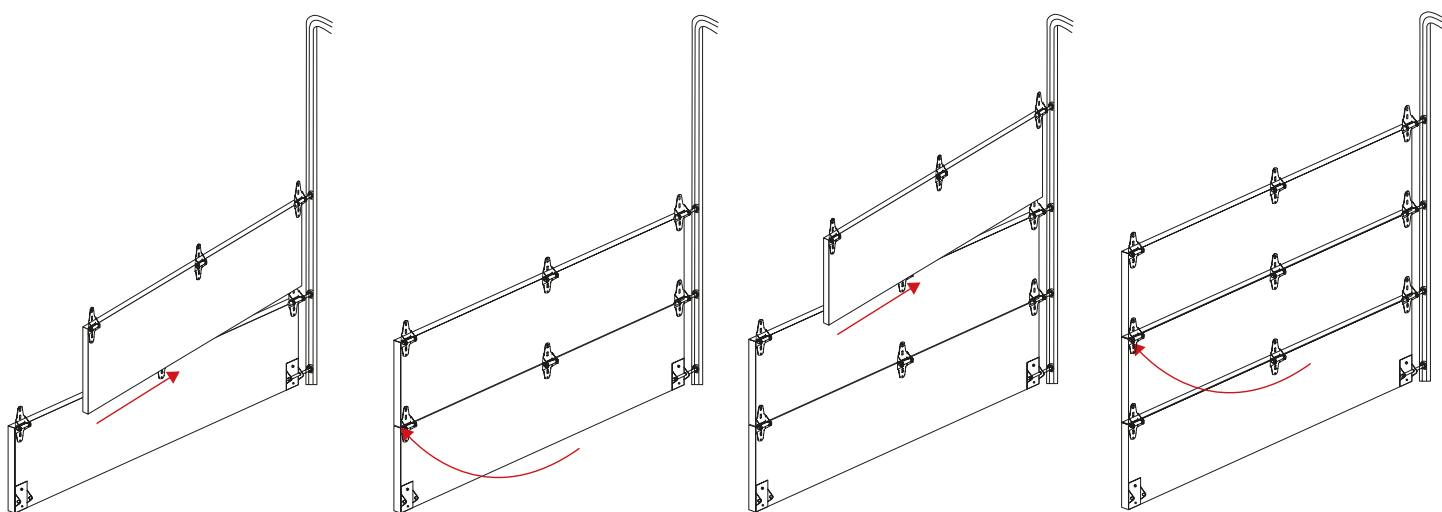
Installing other panels

Insert the roller into the right hinge of the second panel (barlock). To slide the rollers into the track, rotate the panel slightly to insert the rollers into the track and then place it onto the bottom panel. Connect the two panels using the hinges.

Place panel # 3 (inter) on panel # 2 (barlock) by inserting the roller into the right track.

Repeat the same procedure for the other panels except the last panel (top panel).

The top panel will be integrated after installing the **LEFT** track as well as the horizontal tracks.

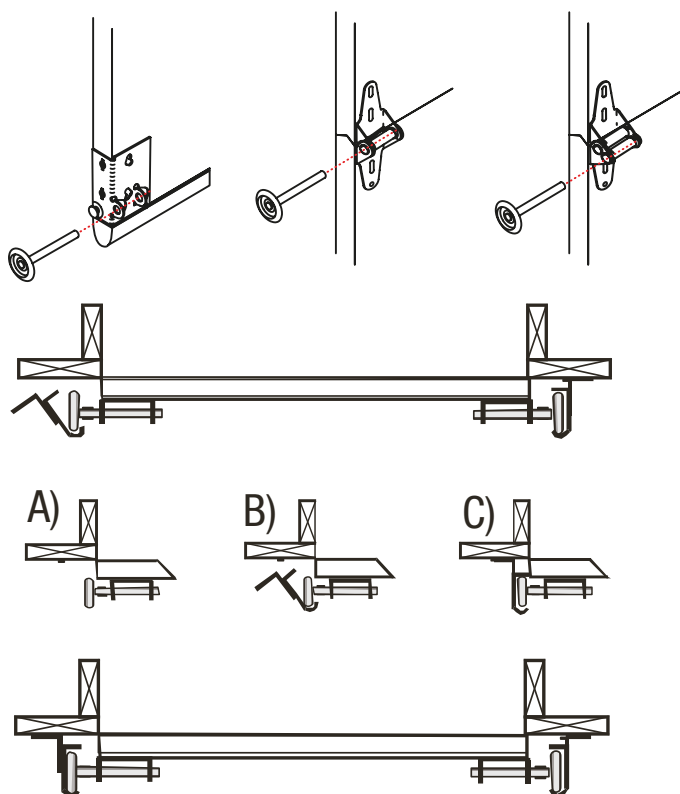


INSTALLING THE **LEFT** TRACK

For the left side, place the rollers in the hinges of each of the panels. Insert the left track in the 45° rollers as shown.

Then rotate the track so that it can be installed on the jamb by following the steps described below:

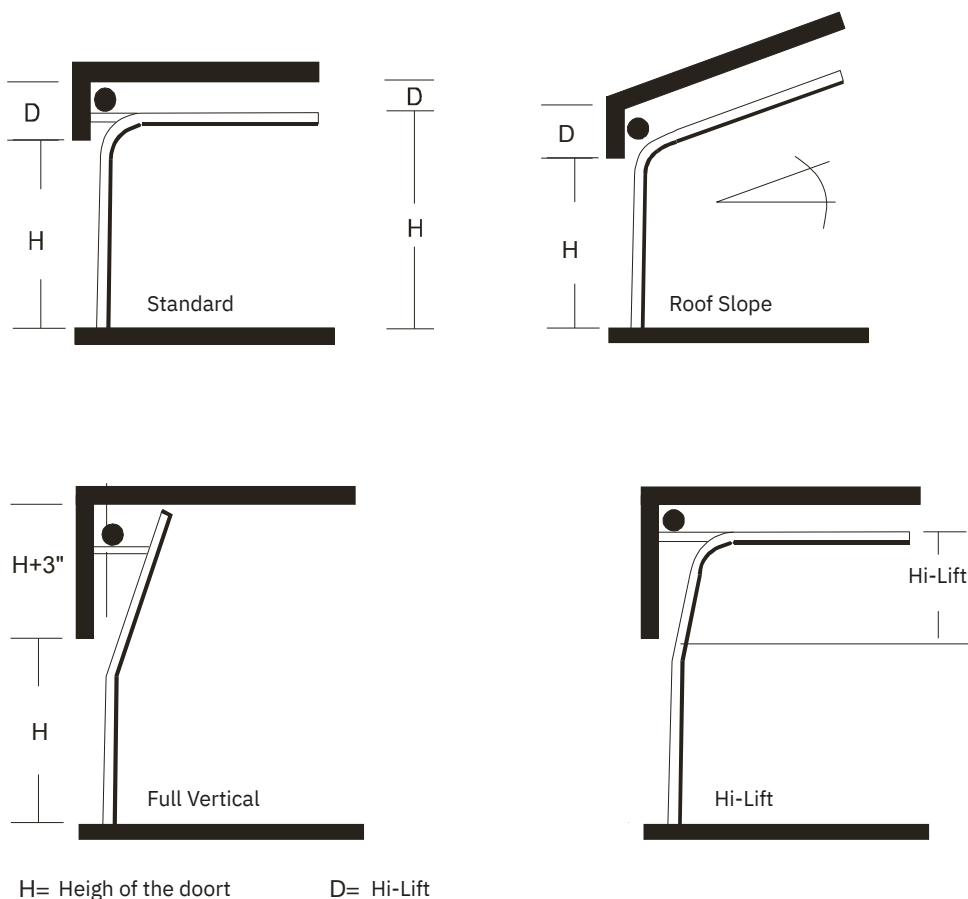
- Make sure that the upper ends of the tracks are on the same level.
- After checking and adjusting, secure the tracks permanently in place. Make sure to keep ½" distance between the track and the panel. The distance between the panels and the track must be the same throughout the door.
- Fix the hinges with the 1 1/4" Hex head Self Tapping screws.



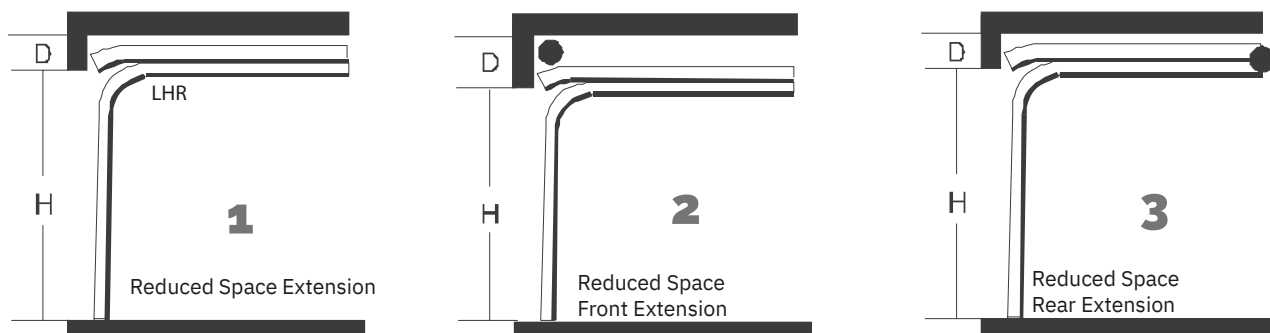
STEP 4 - Installing the tracks

Installation of vertical tracks

Before installing the tracks, it is important to check the equipment. We suggest that you take the time to review the illustrations below to ensure that your installation is compliant.

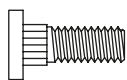


INSTALLATION OF VERTICAL TRACKS FOR LOW HEAD ROOM



Installation of horizontal tracks

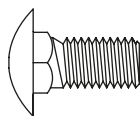
In this section you will need the following parts:



$\frac{1}{4}$ " x $\frac{3}{4}$ "
Track Bolt



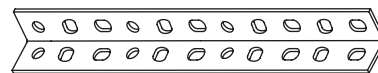
$\frac{1}{4}$ " Nut



$\frac{5}{16}$ " x $\frac{3}{4}$ "
Carriage Bolt

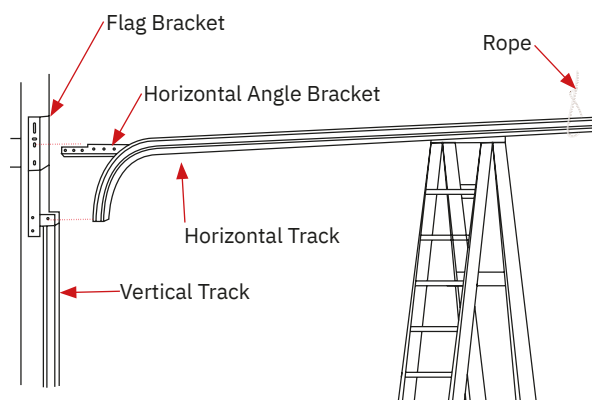
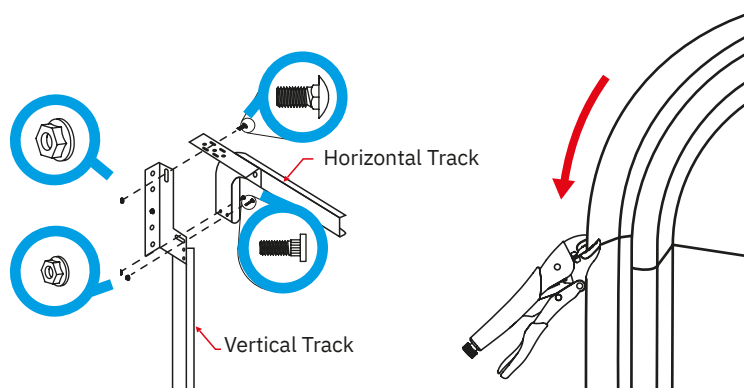


$\frac{5}{16}$ " Nut



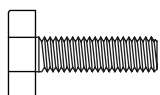
Perforated Horizontal Angle

On both sides of the door, join the vertical and horizontal tracks using $\frac{5}{16}$ " x $\frac{3}{4}$ " flat track screws and $\frac{3}{8}$ " x $\frac{3}{4}$ " carriage bolts. To facilitate the insertion of the screws, use locking pliers to hold the vertical and horizontal track together.



Horizontal Track Bracing

In this section you will need the following parts:



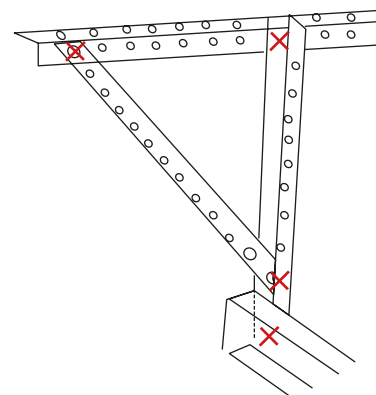
$\frac{5}{16}$ " x $\frac{3}{4}$ "
Hex Head Bolt



$\frac{5}{16}$ " Nut

After checking that the distance between the tracks is the same at all levels and that they are parallel, install the rear brackets on the tracks and the ceiling,

A good way to reinforce the horizontal tracks is to open the door halfway. At this point, screw the tracks to the ceiling using the angles to be installed at ninety degrees (90°) forming a triangle to make sure everything is in place, strong and without movement.

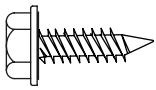


Example of assembly

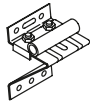
STEP 5A - Installation of top panel (standard lift)

Installing the top panel

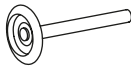
In this section you will need the following parts:



1/4" x 1 1/4"
Hex Head
Metal Screw



Top Bracket



Roller

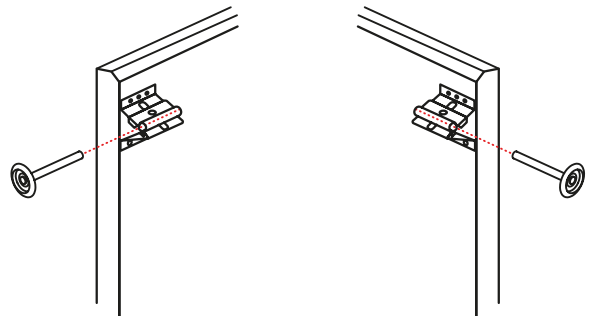
Place the last panel on the previous panel and secure it with the pliers locked in both tracks on each side of the door.



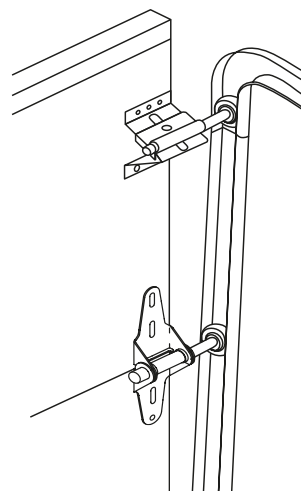
Screw the hinges # 3 at the bottom of the top panel.



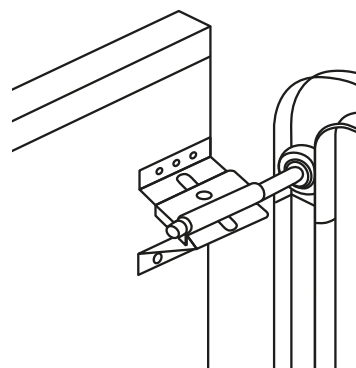
Insert the roller into the top bracket.



Then screw the brackets to 2" of the upper part of the top panel.

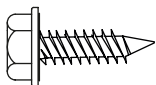


Using the adjustment screw on the top bracket, make sure the top panel is aligned with the other panels. There should be no inward or outward angles, so the top brackets should be adjusted so that the top panel forms a straight line with the other panels.



STEP 5 B - Installation of the **top panel** for reduced space lift

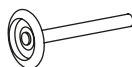
In this section you will need the following parts:



$\frac{1}{4}$ " x 1 $\frac{1}{4}$ "
Hex Head
Metal Screw



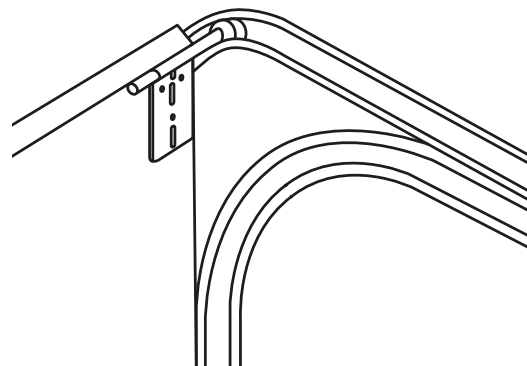
Top Bracket
for reduced spaces



Roller

For the reduced space installation, insert the rollers in the Top Bracket. Insert the rollers in the highest track (for the reduced space installation, there are two horizontal tracks). There should be no inward or outward angles, therefore, the top brackets should be adjusted so that the top panel forms a straight line with the others.

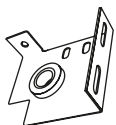
The top bracket rollers will fit into the top track (narrow space hardware has two horizontal tracks one above the other.)



STEP 6 - Installing Springs and cables

STEP 6A - Installation of torsion springs and cables

In this section you will need the following parts:



End Bearing Plate



Drum

On top, in the centre of the lintel, a block of wood should be placed and screwed firmly to the wall, it will be used as a base anchor.

Assemble the drums, the bearing support as well as the shaft with the spring (s). The drum on the right side is identified by RH or painted black.

The left drum is identified LH or is painted red. Screw the top end plate to the angle irons horizontal tracks and anchor the centre plates on the anchor block (bevelled side towards the ground).

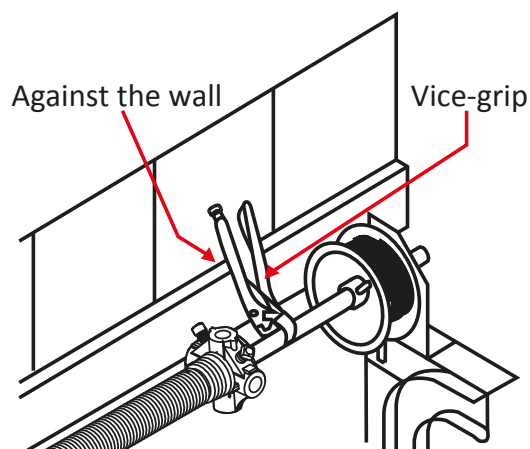
Check that the spring shaft is level. Make sure that the spring is on the correct side. Its location is indicated directly on the part on a label. You will also find the required number of turns there.

Install the cables on the drums and tighten the screw on the shaft. Start with the left drum.



Always use pliers to block the door to prevent its displacement because a movement of the door could cause serious injuries.

When mounting the torsion springs, the door must be locked in the closed position.



WARNING



ALWAYS USE GOOD QUALITY, SNUG FITTING, CONSTANT DIAMETER, SOLID STEEL WINDING BARS WHEN WINDING OR ADJUSTING SPRINGS. THE USE OF ANY OTHER OBJECT CAN RESULT IN SEVERE INJURY. WHEN WINDING THE SPRINGS, THE WINDING BAR MUST BE INSERTED INTO THE FULL DEPTH OF THE HOLES IN THE WINDING CONE. KEEP A FIRM GRIP ON THE WINDING BARS AT ALL TIMES. USE A STURDY LADDER AND STAND TO THE SIDE OF THE WINDING BARS.

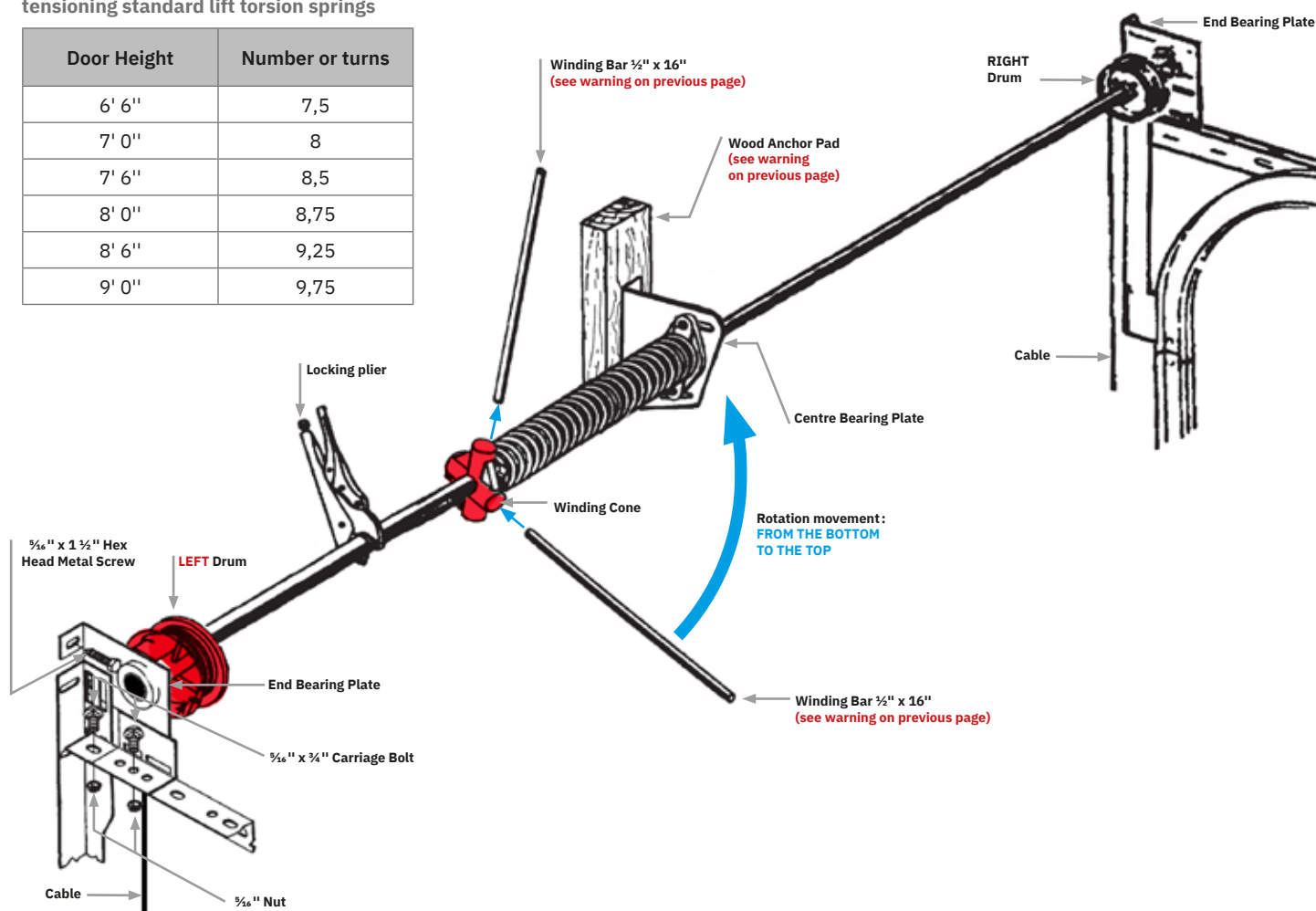
IF YOUR DOOR HAS A TORSION SPRING ASSEMBLY, YOU MUST MAKE SURE THAT THE WOOD ANCHOR PAD (SEE DRAWING) IS FIRMLY ATTACHED TO THE GARAGE WALL AS DESCRIBED IN THE DETAILED INSTRUCTIONS ON THE NEXT PAGE. FAILURE TO SECURELY ATTACH THE ANCHOR PAD COULD ALLOW THE SPRINGS TO VIOLENTLY PULL AWAY FROM THE GARAGE WALL AND COULD RESULT IN SEVERE INJURY AND/OR PROPERTY DAMAGE. IN NO CASE SHOULD NAILS BE USED.

STEP 6A - Installation of torsion springs and cables (continued)

Make sure that the shaft is level and equidistant from the wall everywhere.

Number of turns required for
tensioning standard lift torsion springs

Door Height	Number or turns
6' 6"	7,5
7' 0"	8
7' 6"	8,5
8' 0"	8,75
8' 6"	9,25
9' 0"	9,75



For any type of lift except for low lifts, the cable being already installed at the bottom bracket since the beginning of the installation, you just have to pass this cable between the tracks and the wall (at the back of the rollers) and hang it on the cable drum. Hook the end of the cable with a locking sleeve into the notch on the cable drum.

Turn the left drum until the cable is taut and tighten the drum screws.

Repeat the same operation on the right side afterwards. Turn the shaft manually until the cables are taut and secure the shaft with the locking pliers.



**Use extreme caution during this step. The next step is to refit the springs.
This requires special attention, as serious injuries can occur.**

STEP 6A - Installation of torsion springs and cables (continued)

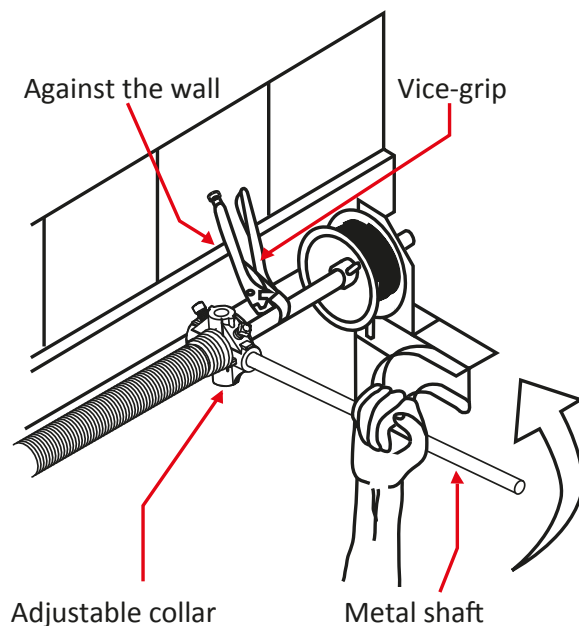
Refitting the springs.

With a pliers stationary on the shaft and resting against the wall, loosen the screws on the clamping cone, use metal bars diameter by 18 " long **(not included)**.

Refit the spring by turning the winding cone upwards. The number of complete turns to be made is written on the label affixed on the spring.

To make it easier to count the number of turns, make a horizontal line on your spring before applying tension.

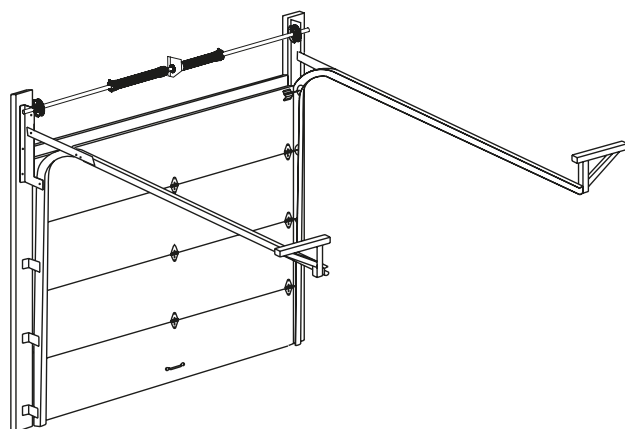
Once the screws are tight, remove the bar and the pliers.



Never remove a bar from one hole until the other is in place in the next hole or the spring is locked by the winding cone screws. Remember to lock the winding cone on the shaft before removing the bar after refit.

Now check whether the door is balanced. If the door opens as soon as it is released or if it closes sharply by hitting the floor, the springs must be adjusted by reducing the number of turns if the door is too light or increasing the number of turns if it is too heavy. Before making this adjustment, close the door and lock it. Secure the shaft with locking pliers and put a metal bar in a hole in the winding cone. **HOLD FIRMLY** and loosen the winding cone screws.

It is possible to readjust the spring, more or less $\frac{1}{4}$ turn if necessary. However, if your door has more than one spring, we advise you to follow the number of turns inscribed on all springs and to adjust on one spring.



This is what your installation should look like from the inside.

STEP 6A - Installation of torsion springs and cables (continued)

For the following section you will need this hardware :



Threaded Open Eye Bolt



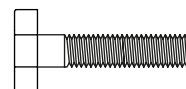
5/16" Nut



Pulley



Pulley support



3/8" x 1 1/2" Hex Head Bolt



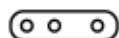
3/8" Nut



Security Cables

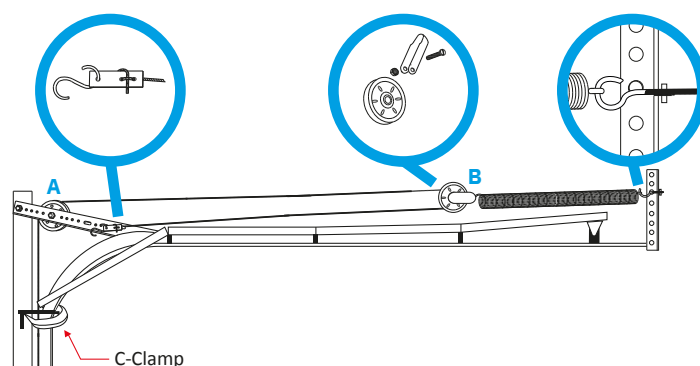


"S" Hook



3 Holes Cable plate

- Mount the door and immobilize it
- Install a pulley (Pulley **A**) on the front corner of the horizontal track
- Install the pulley support on the other pulley (Pulley **B**). Hang it to the spring.
- Install the threaded bolt in the perforated angle of the rear hanger.
- Hang the other side of the spring to the threaded bolt installed to the rear hanger
- Take the cable installed in step 2 (bottom panel, p.10), pass it through the **A** pulley and the **B** pulley.
- Tighten the cable until the spring is horizontal and install it in the 3-hole plate, attach the "S" hook to it.
- Hang the "S" hook on the front corner of the horizontal track
- Repeat the same operations for the other side
- Install the safety cables by inserting them inside the springs. Secure cables securely at each end
- Perform door swing test, adjust tension as needed



i DO NOT FORGET TO PASS A SAFETY CABLE INSIDE THE SPRING.

If an adjustment is necessary, you must then raise the door to its maximum and lock it again. You can:

- Move the "S" hook
- Move the cables on the plates (holes if necessary)

STEP 7 - Installation of the weatherstrips

For the following section you will need this hardware :



8 x 1 1/8
#2 Square head screw

OR



3/4" 18 TPI
Self-Drilling
metal screw

The top weatherstripping is the same length as the width of the door. The weatherstripping on the sides is approximately 1" longer than the height of the door.

To begin the installation, start with the top weatherstripping and then those on the sides.

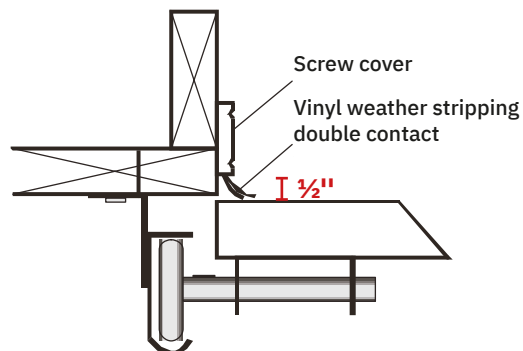
Position the base of the weatherstripping about 1/2" from the door so that the two lips of the flexible weatherstripping rest well on the door.

Screw the weatherstripping by putting one screw per foot (1 hole out of 2) for light colors or 1 screw per hole for dark colors. Make sure to screw in the centre of the oblong holes. Use only screws with washer (wood screws, pan head with washer, coarse threads, type 17 point).

Note that weatherstripping installed too tightly will be less effective and will damage the paint on the door prematurely. If the rigid PVC base is deformed, the screws are too tight.

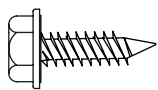
It is important to immobilize the flexible weatherstripping on the base if it is not co-extruded.

Place the screw cover.

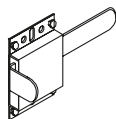


STEP 8 - Installation of the side lock

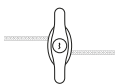
For the following section you will need this hardware :



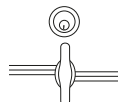
$\frac{1}{4}$ " x $1\frac{1}{4}$ "
Hex Head
Metal Screw



Side Lock
(optional for
 $1\frac{3}{8}$ " doors)



Cable Lock
(optional)



Rod Lock
(optional)

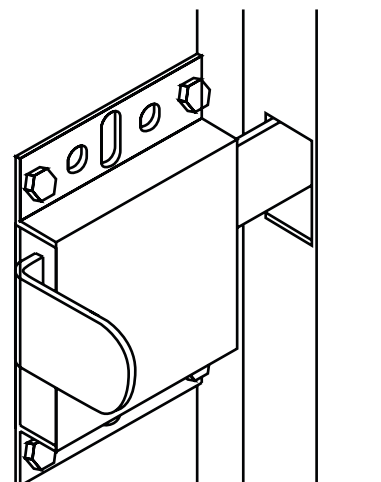
Place the latch housing approximately $\frac{1}{2}$ " from the door to the end of the panel so that the latch will play freely in the hole provided in the vertical rail.

Secure the housing to the end of the door with the $\frac{1}{4}$ x $1\frac{1}{4}$ in Hex head Metal screws.

Different types of locks are also available:

- Cable lock
- Rod lock

i FOR AN ELECTRIC DOOR OPENER, IT IS UNNECESSARY, AND EVEN DANGEROUS, TO USE ANY LOCKSYSTEM.

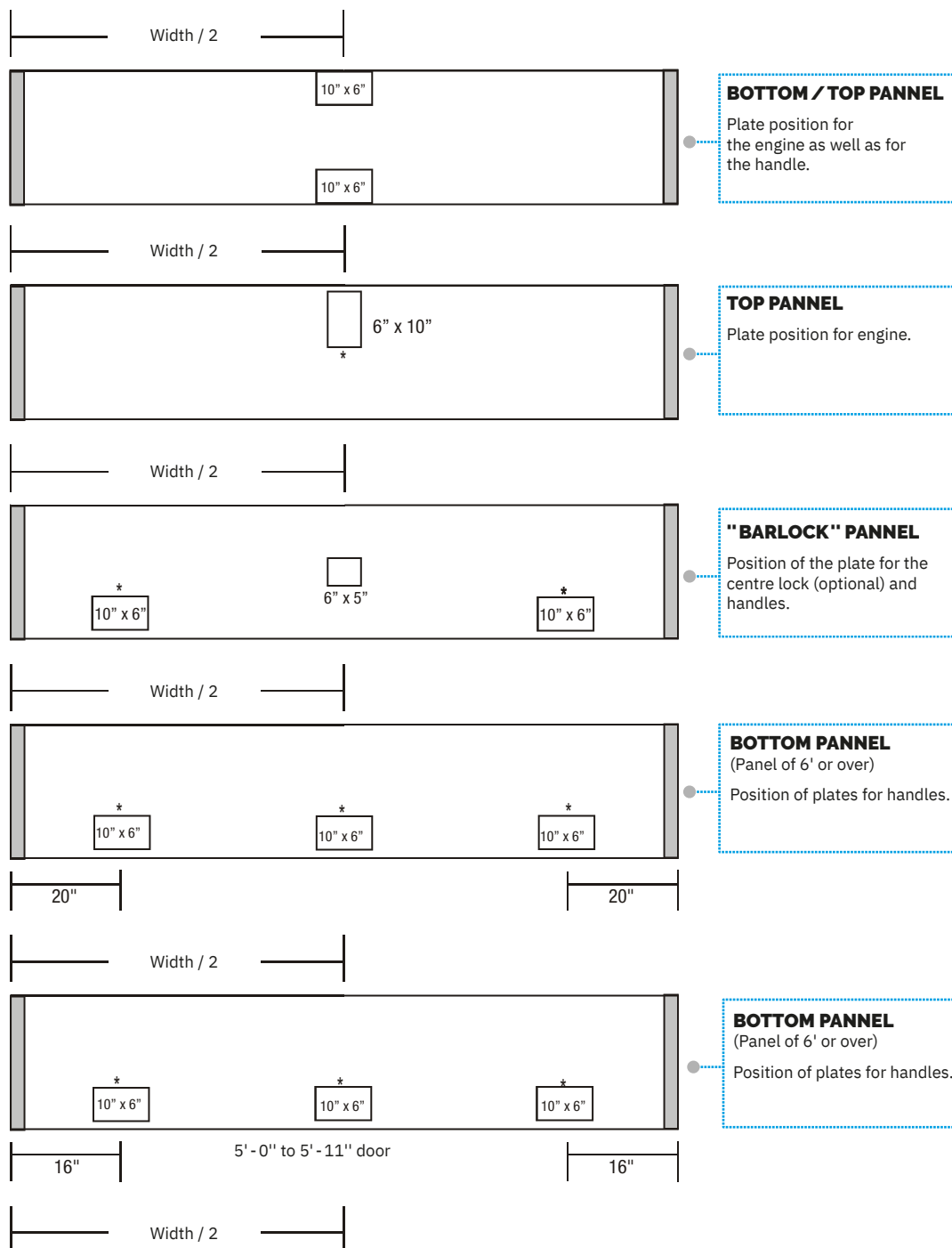


Side Lock
(optional for $1\frac{3}{8}$ " doors)

STEP 9 - INSTALLING HANDLES AND ELECTRICAL OPERATOR

STEP 9A - PANEL 1 3/4" ANCHORING PLATE PLACEMENT

To install the handles and the electric operator, refer to the illustration to determine the exact location of the anchor plates.



STEP 9B - PLACEMENT OF THE 1 3/8" PANEL ANCHOR PLATES

To install the handles and the electric operator, refer to the illustration to determine the exact location of the anchor plates.



2"x3" 18-gauge steel plate

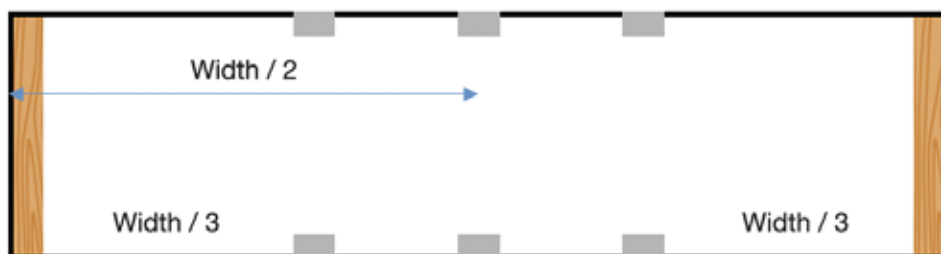


White 138 painted wood end block;

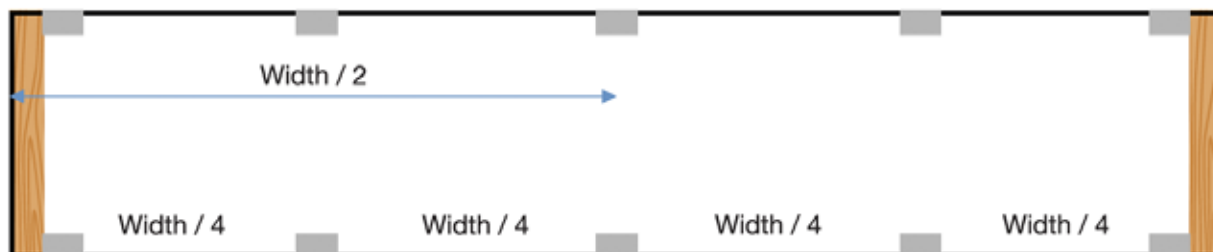
Up to 9'-5"



From 9'-6" to 11'-11"



From 12' to 16'



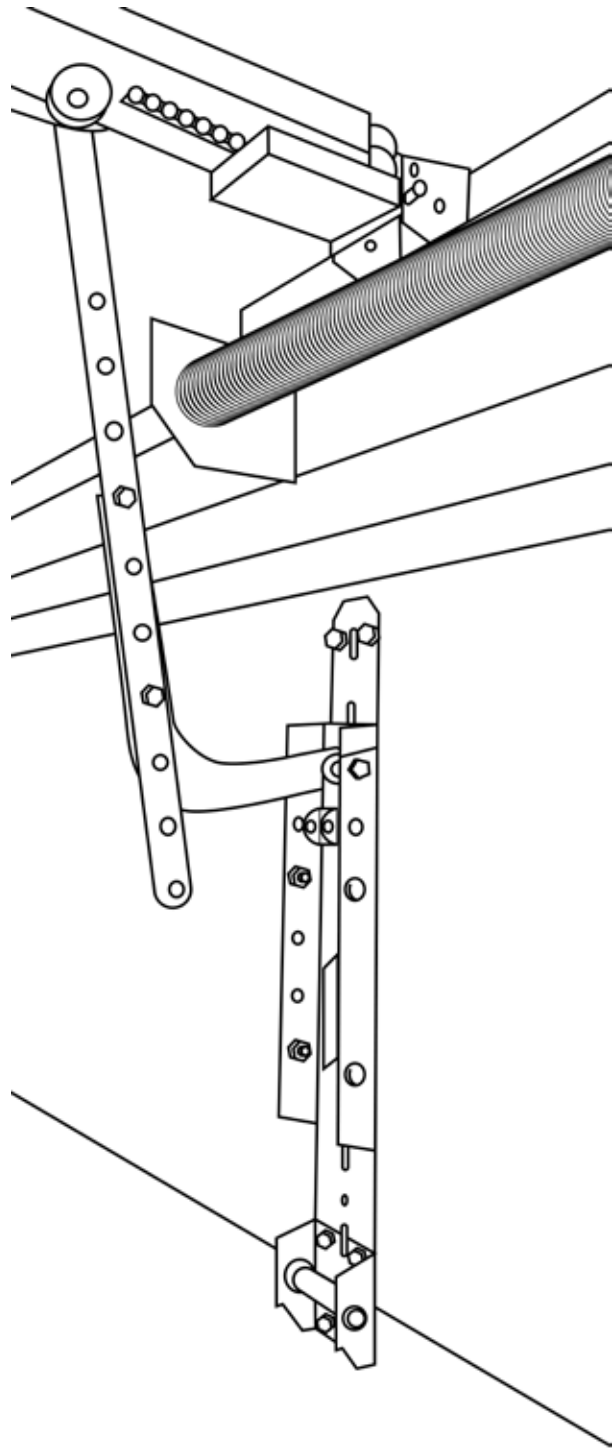
Images for illustrative purposes only

INSTALLING THE GARAGE DOOR OPENER FOR 1 3/8" DOORS

It is important to reinforce the top section with a perforated angle iron or an ARB type support (not included). If you don't reinforce the top section, it will bend and peel off.

Any damage caused would not be covered by the warranty.

For more details, please refer to the opener installation manual.



ARB attachment bracket (not included)

LOW HEAD ROOM INSTALLATION

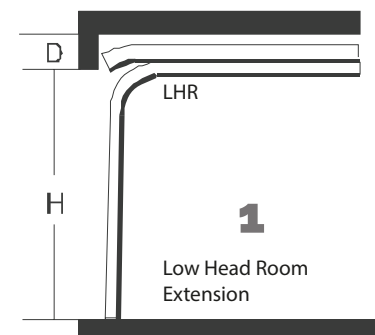
You have opted for small space hardware, probably due to a problem with spacing above the door. It is therefore very important to install it properly to avoid any operating problem.

First of all, the initial installation including the installation of the vertical and horizontal tracks and panels is identical to the standard lift except for the installation of the top brackets as mentioned on page 17.

There are three types of movements to operate this kind of system.

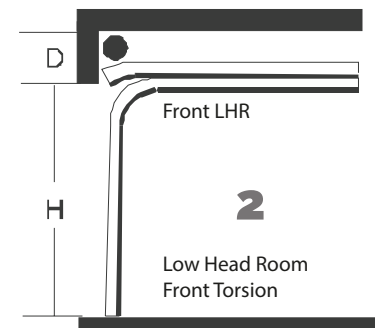
1. Extension

The installation of the extension type of movement is done in the same way as the standard lifts.



2. Front torsion

Since the cable has already been installed at the bottom bracket (specific to this type of lift and which exceeds your track) from the beginning of the installation, you still have to pass this cable outside the tracks and pass it through the pulley (if necessary) that will be installed on the horizontal track near the radius and hook it to the cable drum. Hook the end of the cable with a locking sleeve into the notch on the cable drum.



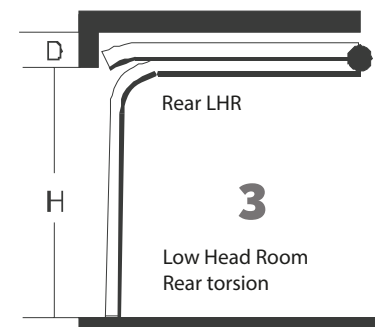
Turn the left drum until the cable is taut and tighten the drum screws. Repeat the same operation on the right side afterwards. Turn the shaft manually until the cables are taut and secure the shaft with the locking pliers.

3. Rear torsion

The springs as well as the drums are located at the rear of the tracks. The drums are on the outside of the tracks and your cable will pass under the pulley while running along the tracks on the outside.

If the winding is on the left, the spring must be connected to the right drum and vice versa.

To put tension on the springs, **stand with your back to the door** and carry out the operation from the bottom up.



MAINTENANCE GUIDE

For the maintenance of the door surface, we recommend :

1. Clean your door at least once a year with mild soap and a car brush.
2. Avoid strong cleaners that could damage the paint.
3. It is recommended to apply a coat of wax once a year in order to give a lustrous shine to your garage door and make it easier to maintain.

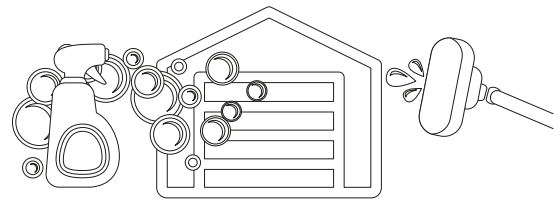
For the frame weatherstripping and between the panels, we recommend :

1. Wash them with a mild soap to preserve their appearance and keep them flexible.
2. Lubricate them about twice a year with a silicone-based lubricant.

⚠ DO NOT USE OIL-BASED LUBRICANTS !

For hardware, we recommend :

1. Lubricate all moving parts such as rollers, hinges, pulleys, springs, and locks with oil twice a year.
2. Check the strength of hinges, wheels, bolts, and track supports at least once a year.
3. If any defect is detected, contact a garage door maintenance specialist immediately.



For the electrical operating system, we recommend :

1. Inspect the garage door operating system every three months.
2. Open and close the door by hand.
A well-balanced garage door will open and close easily. If the door is unbalanced or difficult to open, contact a garage door installation technician.
3. Check the safety devices. The garage door should reverse its movement automatically if an object or person is located in the door opening. If something is wrong, immediately contact a garage door installation technician.



IMPORTANT MESSAGE

IT IS IMPORTANT TO FOLLOW THE RECOMMENDED MAINTENANCE PROCEDURES TO ENSURE YOUR GARAGE DOOR WILL FUNCTION PROPERLY FOR MANY YEARS. WE STRONGLY RECOMMEND THAT YOU HIRE A QUALIFIED INSTALLATION TECHNICIAN TO PERFORM ANNUAL MAINTENANCE.

TO AVOID INJURY, DO NOT ATTEMPT TO ADJUST SPRING TENSION, HINGES, AND LIFT CABLES YOURSELF.

Instead, consult a GAREX Installation Technician.

RECOMMENDATIONS FOR ADJUSTING YOUR GARAGE DOOR

<p>PROBLEM: The door is very heavy and only goes up by half.</p> <p>SOLUTION: The torsion spring (s) were installed on the wrong winding side.</p>
<p>PROBLEM: The door opens very quickly and it is difficult to bring it back down.</p> <p>SOLUTION: Adjust the tension according to the right number of turns.</p>
<p>PROBLEM: The door closes quickly and is difficult to lift.</p> <p>SOLUTION: Adjust the tension according to the right number of turns.</p>
<p>PROBLEM: The door is working well, but it goes up 2 to 3 inches.</p> <p>SOLUTION: Adjust the spring tension.</p>
<p>PROBLEM: The door does not close completely at ground level.</p> <p>SOLUTION: The weather strippers are too tight. Detach it and place it a little further from the door (the base weather stripping should be approximately 1/2 inch from the door).</p>
<p>PROBLEM: The door is difficult to open at first.</p> <p>SOLUTION: The weather strippers are too tight. Detach it and place it a little further from the door (the base weather stripping should be approximately 1/2 inch from the door).</p>
<p>PROBLEM: The door is difficult to open at the end.</p> <p>SOLUTION: The horizontal rails are not perpendicular to the axis of the door. Use a ribbon to measure to verify it. See figure 17. 8- The top panel does not close completely. Adjust the position of the upper supports. See figure 16.</p>

If problems persist after using this manual, please feel free to contact a garage door installation specialist:



**CONTACT OUR
CUSTOMER SERVICE**

1 800 748-3317

info@garex.ca

GAREX WARRANTY

GAREX guarantees all its products against any manufacturing defect for a period of one (1) year from the date of purchase of the product from one of its authorized dealers. The warranty applies to residential use only, i.e. non-commercial or rental use.

GAREX OFFERS ADDITIONAL WARRANTIES IN THE FOLLOWING CASES:

Warranty on the Panels

GAREX guarantees its light-coloured door panels for a period of twenty-five (25) years. The installation of a dark- coloured door reduces the warranty period to fifteen (15) years. The warranty covers perforation caused by rust, cracking and blistering of the paint as well as delamination of the coating on the polyurethane making the original product unusable and which may occur under normal handling and in a normal environment of use. The warranty is effective from the date of production of the product indicated on the door sections.

Warranty on the Hardware

GAREX guarantees its residential garage door hardware against any manufacturing defect for a period of two (2) years. The warranty is effective from the date of purchase from an authorized dealer.

Warranty on the sealed windows

GAREX guarantees its sealed glass units for residential garage doors under normal conditions of use for a period of ten (10) years against the formation of a film or dust deposit on the internal surfaces of the sealed unit caused by a lack of seal and constituting a significant obstruction of vision. The warranty is effective from the date of purchase from an authorized dealer.

Warranty on paint sold by GAREX outside of its standard line of products

GAREX guarantees paint outside its standard colour chart, for a period of ten (10) years from the date of application, against loss of adhesion that causes chipping, cracking, or blistering of the surface.
GAREX also guarantees the loss of heat retention of its paint outside of its standard line that results in a significant change in colour, particularly on vertically exposed surfaces, for a period of five (5) years from the date the paint is applied at the factory.

SPECIFIC TERMS AND CONDITIONS OF THE LIMITED WARRANTY:

- A) Under the terms of this warranty and for the duration of the period it covers, GAREX, at its sole discretion, may either repair the defective product, or provide the customer with a replacement product for the defective product or a part of it that is a new or refurbished equivalent. GAREX reserves the right to provide a product of similar quality, however the colour or texture may differ from the original product. The exchanged product or component remains the exclusive property of GAREX and must be returned to its main place of business by the buyer, who bears the transportation and shipping costs.
- B) When Garex chooses to replace the defective product, the amount covered by the warranty decreases, after the first year of the warranty, in proportion to the years elapsed. The amount covered by the warranty after the first year will be based on the authorized dealer's base price at the time of purchase of the product.
- C) The warranty is valid as long as the purchaser owns the house where the door is installed, and it is neither assignable nor transferable.

The warranty does not apply if:	The warranty excludes :
A) The door is installed on a rental, multiple, commercial, or industrial building	A) All actual transportation or shipping costs are excluded from this warranty and are the buyer's responsibility
B) The product has been modified or repainted by the buyer, or by a third party	B) All installation and labor costs incurred in the replacement or repair of the product are at the buyer's responsibility, up to a maximum of \$400.00
C) The product has been improperly installed	C) All paint expenses are the buyer's responsibility, up to a maximum of \$600.00
D) Maintenance, cleaning and lubrication are not conducted according to Garex's recommendations.	D) Any amount pertaining to the loss of business, merchandise, inventory, and equipment due to a defect in the GAREX product
	E) Any liability for changes in models, materials, standard colours, etc.

By purchasing a GAREX product, the buyer accepts this warranty and acknowledges it as the only official warranty, thereby excluding any other agreement, warranty or condition, express or implied.

Any claim must be submitted in writing to GAREX within thirty (30) days following the discovery of the alleged defect, and received by GAREX within this warranty period, otherwise the warranty will not be honoured; the purchaser must also have the original invoice in their possession. The GAREX product buyer commits to performing the annual maintenance recommended and prescribed by GAREX in its installation and maintenance manual.

The buyer acknowledges receipt of a copy of the installation and maintenance manual as well as this warranty certificate.

Except for the warranties expressly included herein, GAREX hereby rejects and excludes all other conventional warranties (written, verbal or implicit) in relation to its products and all components and elements thereof.

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