

# INSTALLATION AND MAINTENANCE

## Insulated Steel Residential Garage Door Instructions

Model: \_\_\_\_\_ Serial No. \_\_\_\_\_

(Provided on label on interior door surface)

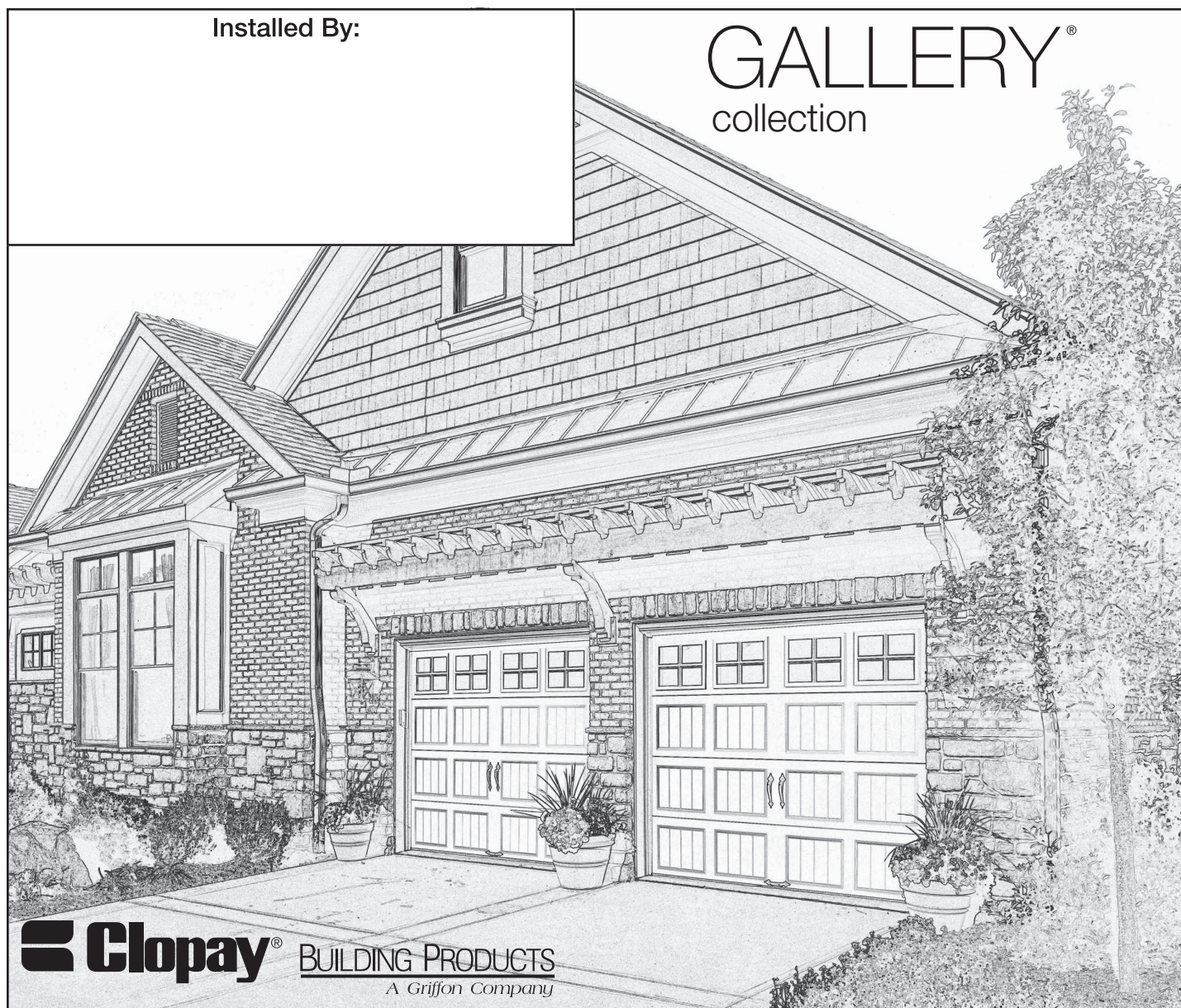
Size: \_\_\_\_\_ Register your product online at <http://warranty.clopaydoor.com>

**Homeowners Should Retain This Booklet for Future Reference**

**This Manual Contains Important Safety Information**

Installed By: \_\_\_\_\_

GALLERY®  
collection



**CONSUMER HOTLINE • 1-800-225-6729**

**FR**

Français

La version française de ce manuel d'installation  
peut être accédée en ligne à l'adresse suivante :  
<http://www.clopaydoor.com/installation-manuals.aspx>

**ES**

Español

Se puede acceder a la versión en español del presente  
manual de colocación en la siguiente dirección:  
<http://www.clopaydoor.com/installation-manuals.aspx>

Hours of Operation (ET):  
Mon. – Fri., 8:30 a.m. – 7 p.m.;  
Sat. 8:30 a.m. – 5 p.m.

## Clipay® Limited Warranty

### Steel Door Limited Warranty Information

We will repair or replace (at our option) any garage door section or hardware that is defective in material or workmanship pursuant to the terms of this limited warranty. This warranty extends to and benefits only the original purchaser of the garage door. This warranty does not apply to commercial, industrial or any other non-residential installation.

We will provide, at no cost to you, sections/section components, hardware or springs/spring components to repair or replace defective sections, hardware, springs/spring components. All labor costs associated with the removal and reinstallation of any repaired section/section components, hardware or spring/spring components, and the installation and finishing of replacement sections/section components, hardware or spring/spring components will be your responsibility. We reserve the right to inspect and/or verify any claimed defect. Clipay reserves the right to replace product in extreme exposure conditions with a similar or like product, as determined by Clipay.

The applicable limited warranty periods are as follows:

Model #	Paint System	Hardware/Springs	Sections/Delamination	Windows
<b>INTELLICORE® MODELS*</b> GD2SU, GD2LU, GD1SU, GD1LU, GR2SU, GR2LU, GR1SU, GR1LU	Single Family–Lifetime Other–10 Years	3 Years	5 Years	10 Years
GD2SP, GD2LP, GD1SP, GD1LP, GR2SP, GR2LP, GR1SP, GR1LP	Single Family–Lifetime Other–10 Years	3 Years	5 Years	10 Years

\*Intellicore® models have special requirements for painting that if not followed could void the warranty. See painting instructions in manual.

Terms and limitations of the limited warranty are further detailed below:

#### Paint System Limited Warranty

Clipay warrants the sections of the Models listed above against rust-through due to the paint finish cracking, checking or peeling (losing adhesion) as follows: (a) in residential single family installations for the years designated above from the date of delivery to the original purchaser; (b) in all other residential installations (including installations on facilities owned in common by condominium associations or similar organizations), for ten (10) years from date of delivery to the original purchaser, pursuant to the terms of this limited warranty.

#### Hardware/Spring & Spring Component/Sections/Section Components Limited Warranty

We will repair or replace (at our option) any garage door hardware, section/section components, spring and/or spring component that is defective in material or workmanship for the term defined in the chart above, pursuant to the terms of this limited warranty. In addition, we will repair or replace (at our option) any garage door section/section components that is defective in material or workmanship, including, but not limited to, delamination of the polystyrene insulation from the steel skin. No warranty is available for decorative hardware.

#### Decorative Windows – 10 Year Limited Warranty

Designer windows, snap-in inserts, clear acrylic windows and window frames are warranted for ten (10) years from date of purchase against manufacturing defects and excessive discoloration. This warranty does not cover any damage or loss caused by harmful chemical action, abrasive cleansers, or breakdowns due to climate extremes or environmental conditions. Insulated glass is warranted for a period of ten (10) years for material obstruction of vision resulting from film formation or dust or moisture collection between the interior surface of the insulating glass window, pursuant to the terms of this limited warranty. No warranty is available for single pane glass.

WE WILL NOT PAY FOR ANY DAMAGES, INCLUDING INCIDENTAL OR CONSEQUENTIAL DAMAGES, CAUSED BY OR RESULTING FROM DEFECTIVE GARAGE DOOR SECTIONS OR HARDWARE. Some states do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

Our warranty shall not extend to or cover deterioration due to damage to the garage door caused by fire, an act of God, other accident or casualty, vandalism, radiation, harmful fumes or foreign substances in the atmosphere, or occurring as a result of any physical damage or the failure of paint or stain that is not applied per the manufacturer's specifications after the garage door left our factory, or failure to follow all installation and maintenance instructions. Nor shall our warranty extend to or cover any damages due to normal wear and tear, or claims with respect to any products that in any way or degree have been altered, processed, misused or improperly handled or installed.

If your garage door does not conform to this warranty, notify us in writing at the following address promptly after discovery of the defect. Clipay Building Products, Attn: Consumer Services Dept., 1400 West Market Street, Troy, Ohio 45373. Additional copies of our installation and maintenance instructions may be obtained by calling 1-800-225-6729.

WE MAKE NO OTHER WARRANTIES, REPRESENTATIONS OR COVENANTS, EXPRESS OR IMPLIED, WITH RESPECT TO THIS PRODUCT, INCLUDING BUT NOT LIMITED TO WARRANTIES, REPRESENTATIONS OR COVENANTS AS TO WORKMANSHIP, DESIGN, CAPACITY, QUALITY, CONDITION, MERCHANTABILITY OR FITNESS FOR ANY PURPOSE OF THE PRODUCT, EXCEPT FOR ANY "IMPLIED WARRANTY" AS THAT TERM IS DEFINED IN THE MAGNUSON-MOSS WARRANTY-FEDERAL TRADE COMMISSION IMPROVEMENT ACT, SUCH IMPLIED WARRANTIES TO BE LIMITED IN DURATION TO A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.



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## Table of Contents

### Introduction and Opening Preparation

STEP 1 – Things to Know Before You Begin.....	3
STEP 2 – Read Safety Information .....	4
STEP 3 – Check Headroom, Backroom, Sideroom.....	5
STEP 4 – Removing the Existing Door Springs .....	6
STEP 5 – Removing Door Sections and Track.....	7
STEP 6 – Preparing the Opening .....	7

### Preparing the New Door

Typical Garage Door Installation Illustration .....	8
Hardware Components.....	9

### Installing the New Door

STEP 7 – Preparing Bottom Section .....	10
STEP 8 – Lift Handle Attachment .....	11
STEP 9 – Installing Door Sections .....	12
STEP 10 – Reinforcing the Top Section for Opener Attachment .....	14
STEP 11 – Assembling and Installing Track .....	15
STEP 12 – Lock Installation (if included).....	17
STEP 13 – Pull Rope.....	17
STEP 14 – Spring Installation.....	17
STEP 15 – Attaching an Automatic Opener.....	18

### Maintenance/Adjustments/Options

Painting and Windows .....	19
Maintenance .....	20
Checking and Adjusting the Door .....	20
Replacement Parts .....	20

## STEP 1 – Things to Know Before You Begin

- Read the instructions completely before starting the installation of the door. Becoming familiar with the components before assembling the door will reduce the installation time.
- Be sure all hardware components for your new door are included before removing existing door (see pages 8,9). If your door is missing any parts, call the toll-free Consumer Services number listed on the front of this manual.
- Allow enough time to do the work; removing an existing door will take approximately 1–3 hours.
- An assistant may be required for lifting the unsprung door. It can weigh from 100 to 500 pounds.
- A typical installation takes between 9 and 12 hours to complete.
- Keep in mind when planning the installation that the garage will be open and unsecured when disassembling the old and assembling the new door.
- If the garage door is the only opening in the structure, make sure everything you need is inside. You will have no way of leaving the garage until the track is assembled and installed. This will take approximately 5 hours.
- To avoid damage to the door, you must reinforce the top section of the door in order to provide a strengthened mounting point for attachment of an automatic opener (see page 14).
- Low headroom doors require special instructions. Options for doors with low headroom can be found on page 5. Purchase of additional hardware may be required. Check headroom requirements in the chart on page 5 before beginning.
- To avoid installation problems that could result in personal injury or property damage, never reuse old track or hardware.
- Doors installed in high windload regions (Florida and other high wind-prone areas) may require additional reinforcement beyond what is detailed in these instructions. Please refer to supplemental instructions for these areas.
- Express warranties apply only to doors installed using original, factory-supplied sections, parts and hardware installed in strict accordance with these instructions.

#### Tools Needed

- C-clamps or locking pliers
- Hammer
- Screwdriver
- Tape measure
- Level
- Socket wrench kit
- Pliers
- Drill, 1/4", 3/16" and 3/8" drill bits, and 7/16" socket bit
- Stepladder
- Sawhorses (with carpet or other soft material on top surface; 2 needed for doors up to and including 9'0" wide, 3 needed for doors over 9'0" wide) or other supports for placing section on while assembling
- Hacksaw
- Wood saw
- T-square
- Additional tools may be required; see the Spring Supplement for more information.

#### Additional Material Required

- Light household oil
- 1-1/4" x 1-1/4" minimum punched angle
  - 13 ga. (3/32") minimum thickness for operator reinforcement (see page 14)
  - 16 ga. (1/16") minimum thickness for rear track hangers on doors weighing up to 300 lbs. that use torsion springs, or doors weighing up to 150 lbs. that use extension springs. If your door exceeds these weight limitations, or if you do not know the weight of your door, 13 ga. angle should be used (see page 16).
- Eight 3/8" x 1" bolts and nuts for rear track hangers
- Six 5/16" x 1-1/2" lag screws for rear track hangers
- Ten 10d 3" nails
- Stop molding
- Wood block
- Rope

## STEP 2 – READ THIS SAFETY INFORMATION IMPORTANT!

**To Protect Yourself from Injury, You Must Carefully Read the Following Safety Information and Warnings Before You Install or Use Your New Garage Door.**

- You can install your new garage door yourself IF...
  - a) you have help (it may weigh up to 500 lbs.);
  - b) you have the right tools and reasonable mechanical aptitude or experience; and
  - c) you follow these instructions very carefully.
- Garage doors use springs to balance them. There are two types of springs installed – extension or torsion. Each of these is available in either a standard or EZ-SET® assembly option. Please look at the drawings on page 8 to see which springs your old door has.
- **If your old door uses torsion springs, do not attempt to remove the door or the springs yourself.** Have a qualified door repair service remove them. Attempting to remove a torsion spring assembly without proper training or tools may result in an uncontrolled release of spring forces which can cause serious or fatal injury.
- **Only the track specified and supplied with the door should be used.**
- The brackets at the bottom corners of your garage door are under great tension. **Do not attempt to loosen any bracket fasteners except when and as directed in detail in the following instructions.** Otherwise, the bracket could spring out with dangerous force.
- **Do not permit children to play beneath or with any garage door or electric operating controls.**
- In removing a garage door that has extension springs, follow the instructions carefully, including the use of C-clamps or locking pliers on both sides of the door in order to keep the door from moving once the springs are removed.
- Keep hands and fingers clear of section joints, track and other door parts when the door is opening and closing to avoid injury. The lift handles are located for safe operation as well as easy use.
- Bolts must be installed at the rear end of horizontal tracks. These act to stop the rollers and keep the door from rolling off the back of the track.
- Track installations must use sway braces on the rear track hangers to prevent sideways movement. If the tracks are not firmly stabilized they might spread, allowing the door to fall and cause severe injury and damage.
- **Do not attach any brackets directly to drywall or sheet rock.** All track brackets, flag brackets and spring brackets should only be attached directly to wood bucks. Otherwise, brackets could pull out of the drywall with dangerous force.
- Springs, cables and bottom fixtures are under strong spring tension. **Do not attempt to loosen any fasteners on these components.** You could suddenly release spring forces and risk severe injury.
- If the garage door and/or any of the supporting track are damaged, operating the door could be hazardous. Call an authorized representative of the manufacturer or professional door repair service promptly.
- If repairs are ever required to your door, safety and trouble-free operation can be best assured by using original replacement parts.
- Once you have completed the installation of your new garage door, please be sure that your garage complies with all applicable ventilation requirements before you enclose any vehicles in the garage. Good ventilation avoids fire and health hazards caused by fumes accumulating within a well-sealed garage.
- Clopay Building Products Company disclaims all liability for any installation that is not in compliance with applicable state or county building codes.
- Doors equipped with automatic door operators can cause serious injury or death if not properly adjusted and operated. To ensure safety of these doors:
  - a) test the sensitivity of the operator's safety reverse mechanism monthly;
  - b) if your door has a pull-down rope, you must remove it;
  - c) make sure the door remains unlocked;
  - d) do not allow children to play with the controls.
- Only approved residential operators are permitted to be used in residential applications. A residential application is a building for four families or less or a garage that is serving the primary residence.

### **WARNING**

**In the interest of safety this symbol means WARNING or CAUTION. Personal injury and/or property damage may occur unless instructions are followed carefully.**

### STEP 3 – Check Headroom/ Backroom/ Sideroom

Headroom is the space needed above the top of the door for the door, the overhead tracks and the springs. Measure to check that there are no obstructions in your garage within that space. The normal headroom space requirement is shown in Table 3-A. The backroom distance is measured from the back of the door into the garage, and should be at least 18" more than the height of the garage door. A minimum sideroom of 3-3/4" (5-1/2" for EZ-SET® Extension Spring) should be available on each side of the door on the interior wall surface to allow for attachment of the vertical track assembly. The rough opening should be the same size as the door. (Fig. 3-A)

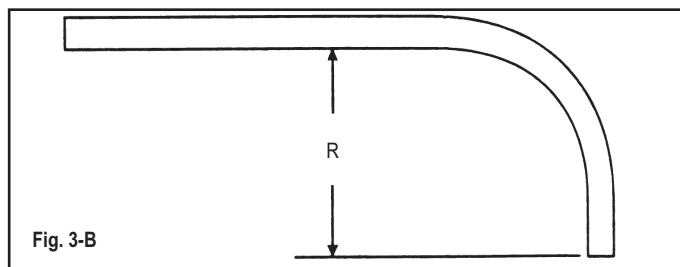
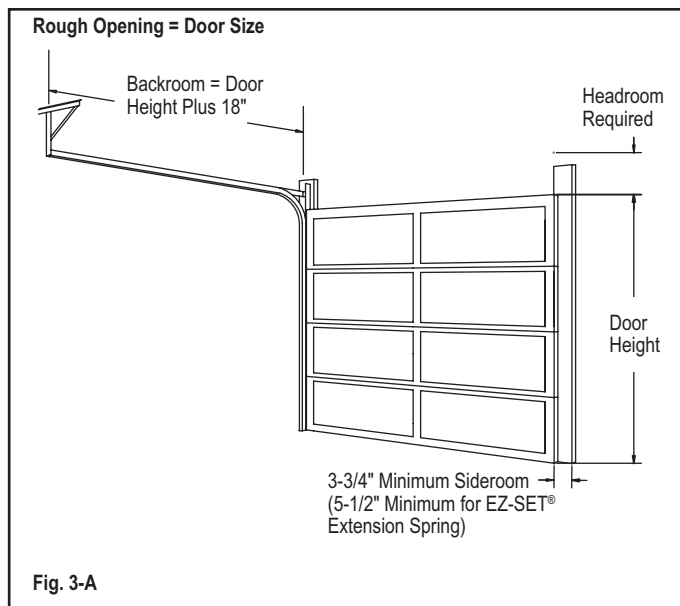
**Track radius:** The radius of your track can be determined by measuring the dimension "R" in Fig. 3-B. If dimension "R" measures 11" to 12", then you have a 12" radius track. If "R" equals 14" to 15", then you have a 15" radius track. (Fig. 3-B)

### Headroom Requirements

The standard headroom space requirement is shown in Table 3-A. (See page 8 if you have a question on which type of spring you have.)

Low headroom? If you have restricted headroom, several remedies are available. See Table 3-B for various options.

**NOTE:** Installation of the various low headroom options differs from the installation of a standard headroom door. Supplemental instructions are included with the hardware of each low headroom option.



**Table 3-A: Standard Headroom Requirement Chart**

Spring Type	Track Radius	Headroom Required
EZ-SET® Extension Spring or Extension Spring	12"	10"
EZ-SET® Extension Spring or Extension Spring	15"	12"
EZ-SET® Torsion Spring or Torsion Spring	12"	12"
EZ-SET® Torsion Spring or Torsion Spring	15"	14"

**Table 3-B: Low Headroom Options\***

Spring Type	Low Headroom Option	Reduces Required Headroom to:	How can I get this option?
Extension and EZ-SET® Extension	Low Headroom Track	4-1/2"	Order Low Headroom Track.
Extension and EZ-SET® Extension	Low Headroom Conversion Kit (Modifies Standard Track)	4-1/2"	Available at most retail stores.
Extension and EZ-SET® Extension	Quick Turn Bracket	8" on 12" Radius Track	Order Quick Turn Bracket Set.
EZ-SET® Torsion	Low Headroom Track (Front Mount Spring)	9-1/2"	Order Low Headroom Track.
EZ-SET® Torsion	Low Headroom Conversion Kit (Modifies Standard Track)	9-1/2"	Available at most retail stores.
Torsion	Low Headroom Track (Front Mount Spring)	9-1/2"	Available from and should be installed by professional installer only.
Torsion	Low Headroom Track (Rear Mount Spring)	4-1/2"	Available from and should be installed by professional installer only.

\*About 3" of additional headroom height at the center plus additional backroom is needed to install an automatic garage door opener. Check door opener instructions.

## STEP 4 – Removing the Existing Door Springs

### **⚠ WARNING**

Garage doors use springs to balance the door weight. There are two types of springs used – extension and torsion. Each of these is available in either a standard or EZ-SET® assembly option. Please look at the drawings on page 8 to see which springs your old door has. **If your present door uses standard torsion springs, do not attempt to remove the door or the springs yourself.** They should be removed by a qualified door service professional. Attempting to remove a torsion spring assembly without proper training and tools may result in an uncontrolled release of spring forces which can cause serious or fatal injury.

Extension springs and EZ-SET® springs are shown on a sectional garage door in the illustration on page 8. Determine which springs your door has. The following instructions detail how to remove these springs.

### **⚠ WARNING**

**Serious injury could result if spring tension has not been released before other work begins.**

## Removing Extension Springs

### **⚠ WARNING**

**Use two or more helpers to assist you in lowering the door.**

**Step 4-1a:** Raise the door to the full open position. Place C-clamps or locking pliers tightly on both sides of the track under the door so the door is held securely in place. With the door fully open, most spring tension has been removed. (Fig. 4-A) Do not attempt to remove or adjust extension springs with door in the down position. Use C-clamps to keep the door from moving or falling once the springs are removed.

**Step 4-2:** Detach the cable at both ends. Disassemble and remove the springs and cable completely from the door.

**NOTE:** Wood blocks should be placed underneath the door when closing to prevent fingers from being trapped.

**Step 4-3:** Remove the C-clamps from the track and carefully close the door.

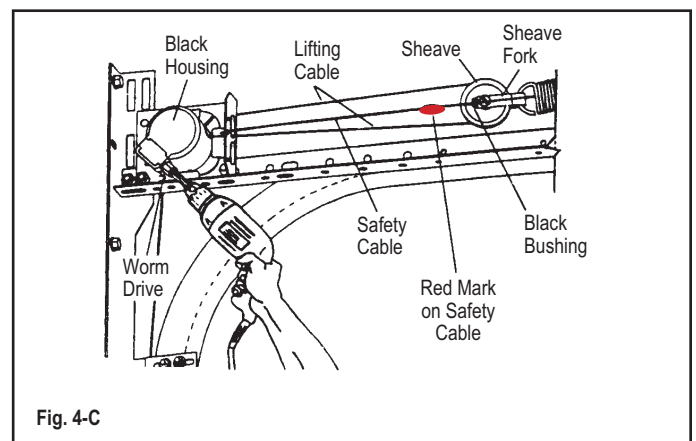
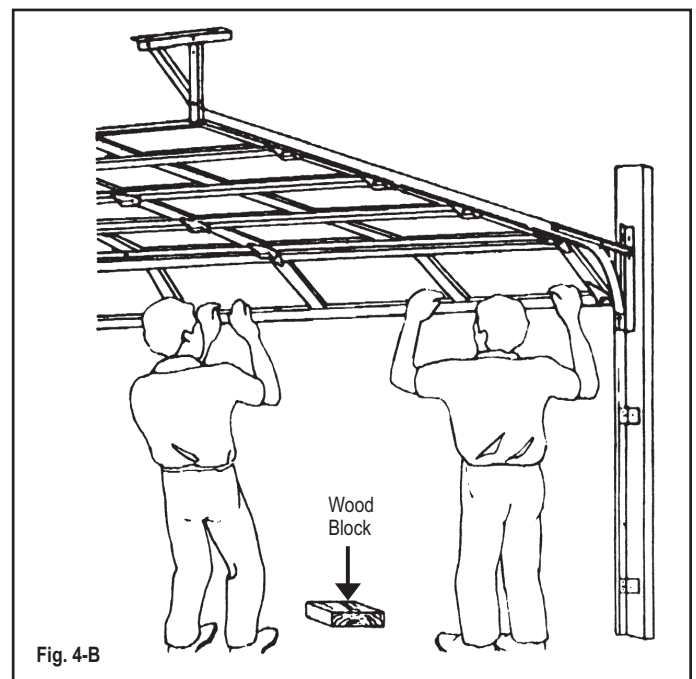
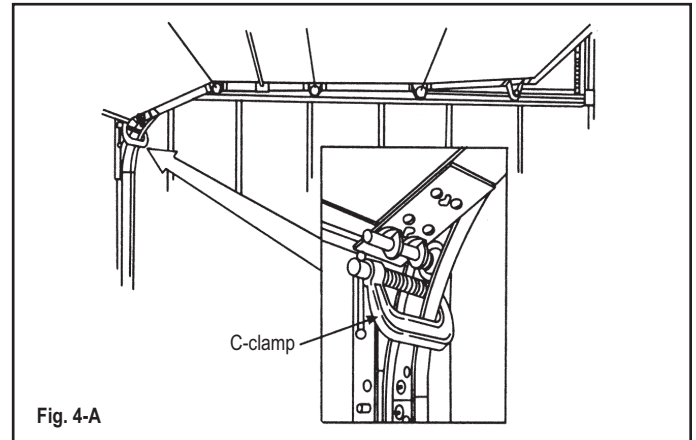
Some large doors might weigh as much as 500 pounds when the spring tension is removed. The weight of the door will not be apparent when you first begin to close the door. The door will feel progressively heavier as it is lowered until its full weight (as much as 500 pounds) is realized about one foot from the floor. A single car door may weigh as much as 200 pounds. (Fig. 4-B)

### **⚠ WARNING**

**To avoid injury, keep hands and fingers clear of section joints, track and other door parts while the door is opening and closing.**

## Removing EZ-SET® Extension or Torsion Springs

**Step 4-1b:** With the door in the DOWN position, position a drill with a 7/16" socket bit over the worm drive. Using the reverse (counter-clockwise) direction on the drill, remove all the tension from the spring (repeat for each side). After spring tension has been removed, detach the lift cables at both ends. Disassemble and remove the springs and cable completely from the door. (Fig. 4-C)



## STEP 5 – Removing Door Sections and Track

**Step 5-1:** The door can now be disassembled. Starting with the top section, remove the hardware and unstack the sections one at a time. (Fig. 5-A)

**Step 5-2:** After all sections have been removed from the opening, detach all remaining track and hardware from the jambs. The hangers that attach the rear ends of the overhead track to the ceiling (called rear track hangers) in many cases can be reused on the new door if made of 13 gauge (3/32") or heavier steel and is not loose or unstable. (Fig. 5-B).

### ⚠ WARNING

To avoid installation problems that could result in personal injury or property damage, use only the track specified and supplied with the door. Do not attempt to reuse old track.

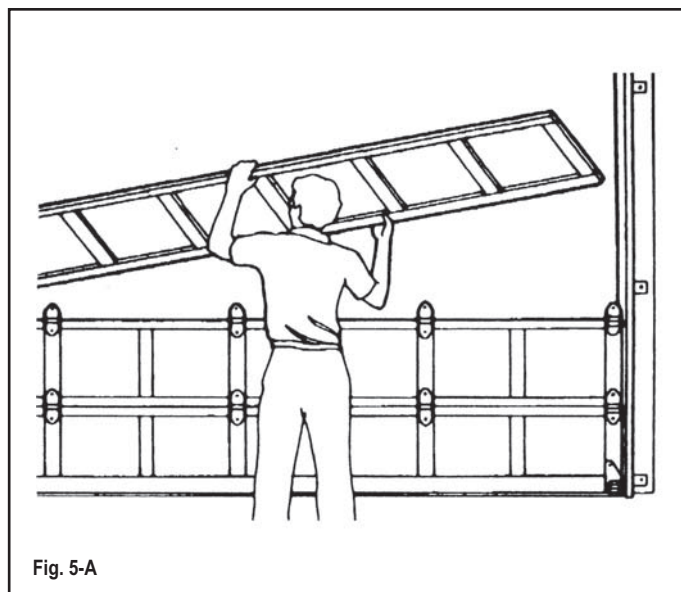


Fig. 5-A

## STEP 6 – Preparing the Opening

**Step 6-1:** On the inside of the garage your opening should be framed with wood jambs, 2" x 6" if possible. The side jambs should extend to approximately the same height as the headroom required. If you have just removed an old door, the jambs should be inspected for the condition of the wood. If the wood is rotten, it should be replaced now. The jambs should be plumb and the header should be level. If there are any bolts fastening the jambs to the wall, the heads should be flush so they don't interfere with the installation of your new door. (Fig. 6-A)

**NOTE:** Rough opening (without stop molding) = door size

**Step 6-2:** Door stop molding should be temporarily nailed to the edges of the jambs flush with the inside. (Fig. 6-B)

Stop molding featuring a built-in weatherseal is offered as an option.

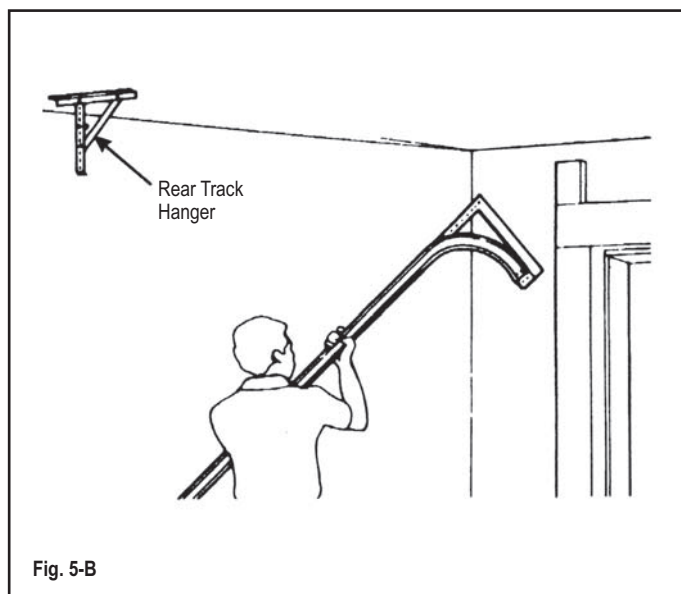


Fig. 5-B

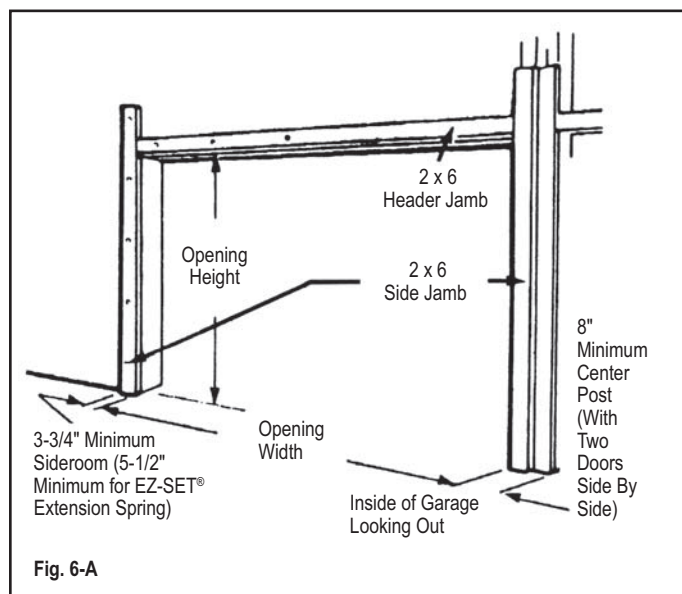


Fig. 6-A

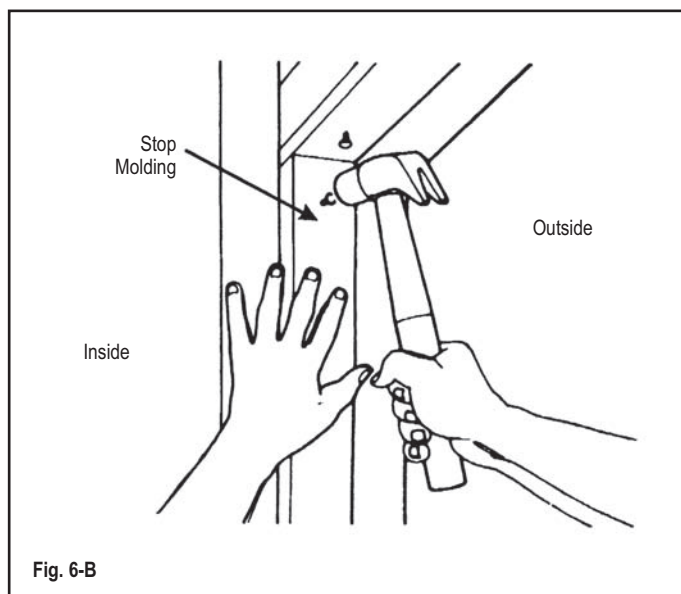
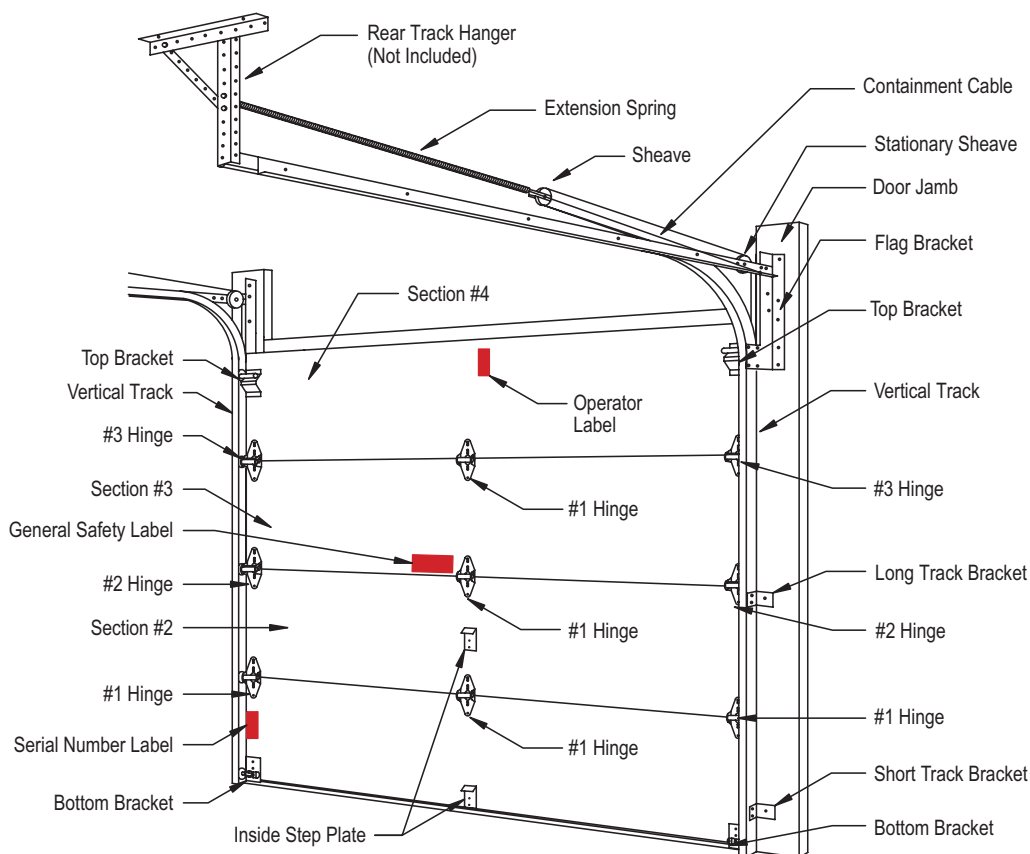


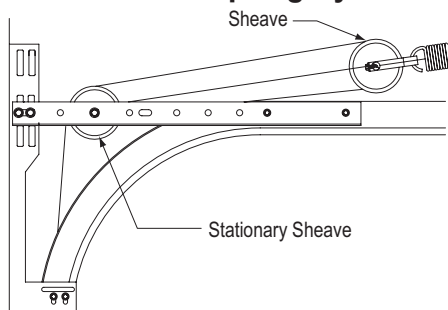
Fig. 6-B



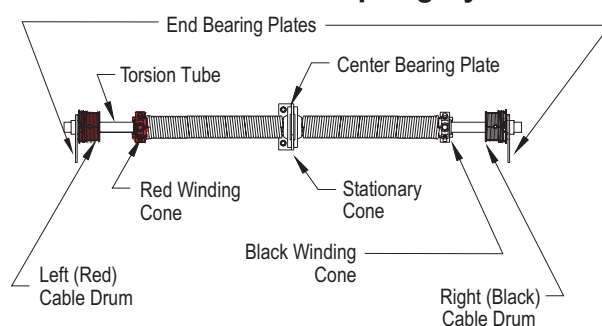
## Typical Garage Door Installation Illustration Extension Spring System Shown on Complete Door



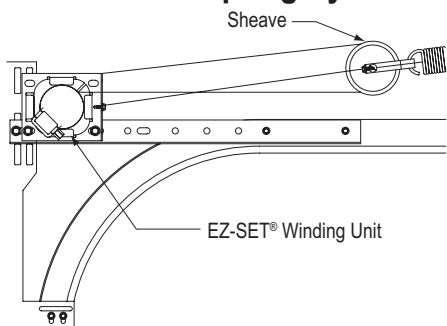
### Standard Extension Spring System



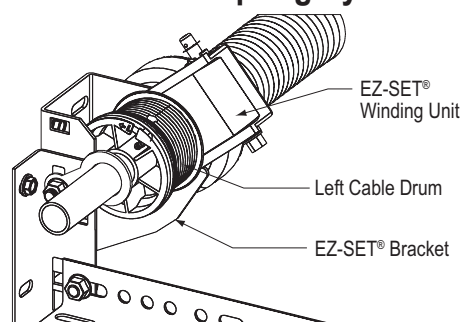
### Standard Torsion Spring System



### EZ-SET® Extension Spring System



### EZ-SET® Torsion Spring System



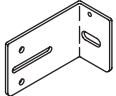


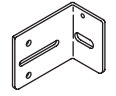

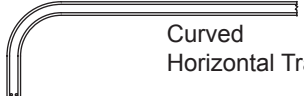


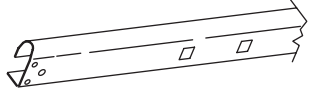

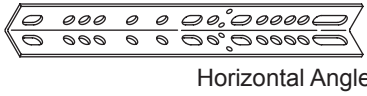

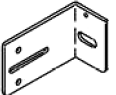
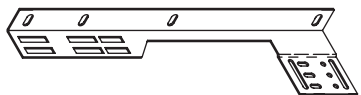

**NOTE:** The above illustration represents a composite of many of the features found on a variety of garage doors. While not representative of any one door, it provides a handy reference for the location of specific components.



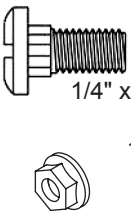
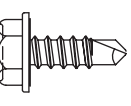
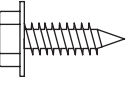
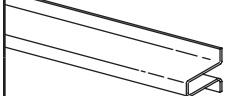
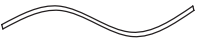

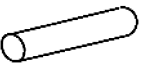
## Hardware Components





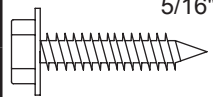


**NOTE: All doors will receive (1) spring kit and (1) or more springs. Separate spring installation supplemental instructions should be included with door hardware. This supplement contains a list of all spring related hardware along with instructions on proper spring installation.**

All Doors Will Receive (2) of These Items:

	Track Bracket (Longer)		3/8"-18 x 3/4" Lg. Carriage Bolt		3/8" Washer
	Track Bracket (Shorter)		Top Bracket		Curved Horizontal Track
	#2 Hinge		Bottom Bracket (1 Pair)		Vertical Track
	#3 Hinge		Horizontal Angle		Cable Assembly
	Track Bracket (Longest, 8'0" Doors Only)		Flag Bracket (1 Pair)		3/8" Hex Nut

(While not representative of any one model, the quantities below can be used as a guide. In some instances, extra screws/bolts are provided in the event of strip-out or loss of parts. Other door sizes not shown below may have different hardware amounts.)

Description	Door Size:	Qty.
	Single Car Doors 8' – 9'W x 7'0"H	16
	Double Car Doors 16' – 7'0"H	22
	Single Car Doors 8' – 9'W x 8'0"H	20
	Double Car Doors 16'W x 8'0"H	26
	Single Car Doors 8' – 9'W	1
	Double Car Doors 16'W	11
	Single Car Doors 8' – 9'W	56
	Double Car Doors 16'W	90
	Single Car Doors 8' – 9'W	0
	Double Car Doors 16'W	1
 Pull Rope	All Doors	1
 Vertical Spade Handle	Single Car Doors 8' – 9'W	2
	Double Car Doors 16'W	4
 Handle Spacers	Single Car Doors 8' – 9'W	6
	Double Car Doors 16'W	10

Description	Door Size:	Qty.
 Rollers	4 Section Doors	10
 #1 Hinge	Single Car Doors 8' – 9'W x 7'0"H – 8'0"H	5
	Double Car Doors 16'W x 7'0"H – 8'0"H	11
 Roll Grip Handle	Single Car Doors 8' – 9'W	2
	Double Car Doors 16'W	4
 Horizontal Spade Handle	Single Car Doors 8' – 9'W	1
	Double Car Doors 16'W	2
 5/16" x 1-5/8" Lag Bolt	6'0" – 7'0" Doors	10
	Over 7'0" Doors	12
 Black Head Carriage Bolt	Single Car Doors 8' – 9'W	6
	Double Car Doors 16'W	10
 Backup Plate	Single Car Doors 8' – 9'W	1
	Double Car Doors 16'W	2
Keyed Lock Kit (Parts are detailed in Lock instructions)	All Doors	0 or 1

\*More struts may be required in high windload areas.

## STEP 7 – Preparing Bottom Door Section

**Step 7-1:** Spread the hardware on the garage floor in groups so that you can easily find the parts.

**Step 7-2:** Find the section with the aluminum weatherstrip retainer fastened to one edge. The aluminum weatherstrip retainer is on the bottom edge of the bottom section. Place the section on sawhorses face down. (Fig. 7-A) Be sure to cover sawhorses with carpet or cloth so as not to scratch section.

**Step 7-3:** Bend and break apart bottom brackets by hand along end tabs as shown. (Fig. 7-B) **Be sure to remove connecting tab.**

**Step 7-4:** Insert safety tabs on bottom bracket into slots on end stile of door. Slide bottom bracket up to fully engage tabs. (Fig. 7-C) Attach all hardware with #14 x 5/8" sheet metal screws. Attach the bottom brackets with two screws to the bottom corners of the section. Screws go into the end stiles. Hook the looped ends of the steel lift cable over the buttons on the bottom brackets. (If your door came with standard extension springs, the lift cables are the longer and smaller diameter of the two sets of cable. If your door came with EZ-SET® Extension Springs, do NOT attach lift cables at this time! Do NOT use the shorter safety containment cables as lift cables, as this can cause improper door function). (Fig. 7-D)

### **⚠ WARNING**

**Failure to properly engage safety tabs on bottom bracket into slots on edge of door can result in severe injury when spring tension is applied.**

**Step 7-5:** Hinges are identified by number 1, 2, 3 (and sometimes 4, on 5 section doors only). This number is stamped on the hinge. Attach a number 1 hinge at each center stile location along the top edge of the section using #14 x 5/8" sheet metal screws. The number is stamped on the side of the hinge that is to be attached to the section. (Fig. 7-E)

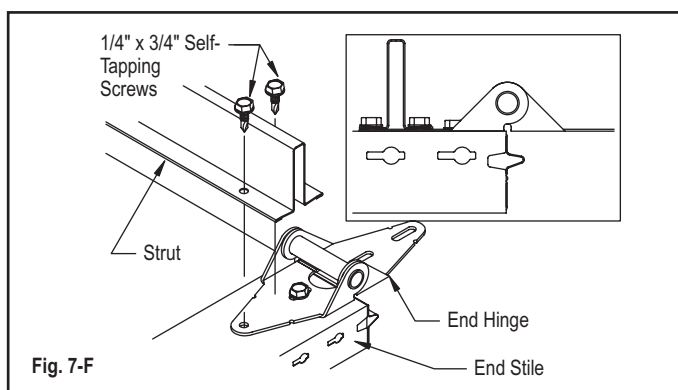
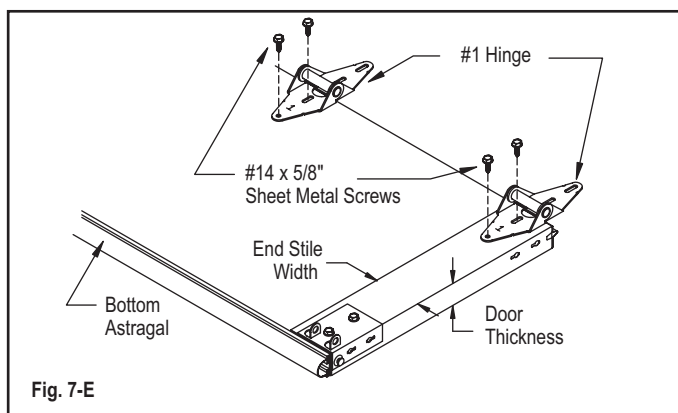
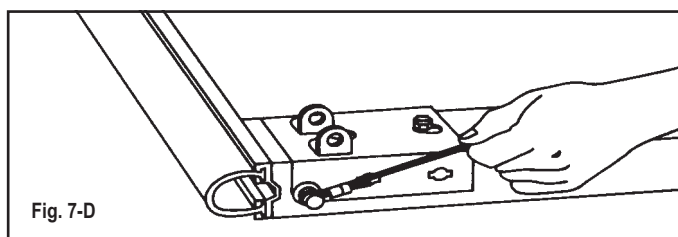
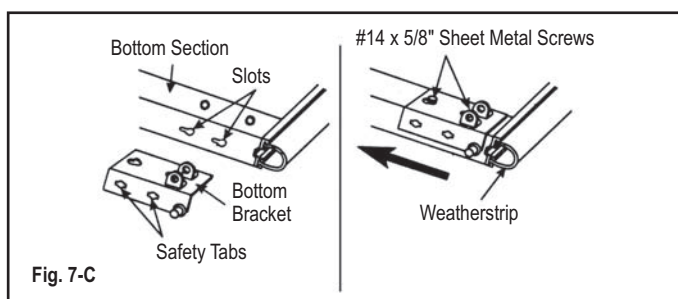
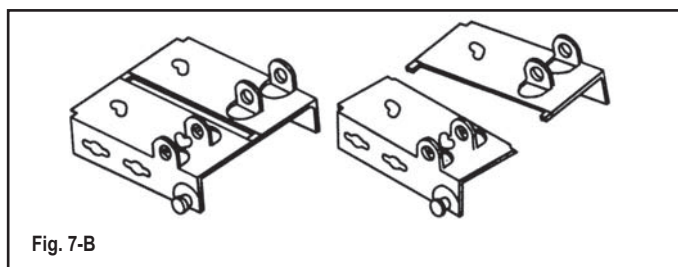
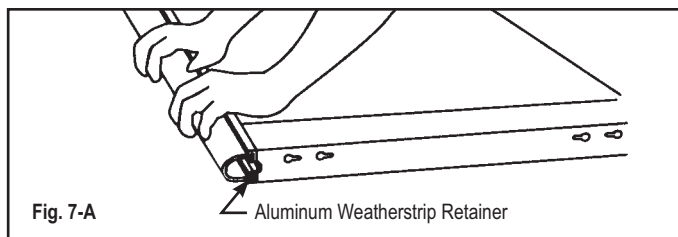
**NOTE:** Determine if your door thickness is 1-3/8" or 2" and determine the width of the endstile. (Fig. 7-E) If Table 7 shows a need for a reinforcing strut on the bottom section, it should be attached overlapping the hinges. Use 1/4" x 3/4" self-tapping screws to attach strut as shown in the illustration. When predrilled holes in strut do not line up vertically with hinge locations, you will be required to drill (2) 3/16" pilot holes through the strut, hinge and door at each hinge location, or use a drill or impact wrench with a 7/16" socket to drive self-tapping screws through strut, hinge and door. (Fig. 7-F)

**Table 7: Sections Requiring Struts**

Door Thickness	Door Width	End Stile Width	Section		
			Bottom	3rd*	Top
All	Up to 15'	All	—	—	—
1-3/8"	15'2"–16'	2-1/2"	—	—	✓
1-3/8"	16'2"–18'	2-1/2"	✓	✓	✓
2"	15'2"–18'	2-1/2"	—	—	✓
2"	15'2"–16'	3"	—	—	—
2"	18'2"–20'	3"	—	—	✓

\*Section with general safety label.

**NOTE:** Doors installed in high windload regions (Florida and other high wind-prone areas) may require additional reinforcement beyond what is detailed in these instructions. Please refer to supplemental windload instructions for these areas.



STEP 8 – Lift Handle Attachment

Bottom Section

**Step 8-1:** Using the supplemental templates provided in the handle bag, determine the handle configuration for your door size.

**Step 8-2:** From the front of the door section, find the center of the distance between embosses. According to the template provided in the bottom handle packaging (Fig. T1), line up the center lines and the bottom section. Drill two 1/2" holes where indicated through the front skin of the section and insulation, but STOP BEFORE drilling through the back skin.

**Step 8-3:** Flip over the section. From the back of the door drill two 5/16" holes, through the back skin. (Fig. T2)

**Step 8-4:** Slide the black headed 1/4" carriage bolt through the horizontal spade handle, the handle spacer, the front of the section, the back of the section, the roll grip handle and finally secure with 1/4" flange nuts. (Fig. 8-A or Fig. 8-B)

**Step 8-5:** Repeat Steps 8-2 through 8-4 for second bottom handle (if applicable).

**Second section (to be installed at the completion of Step 9-4. Not required on doors with outside keyed lock).**

**Step 8-6:** On the back of the provided template find your door handle configuration. Use the template that is on the other side to drill the holes in your second section; it will be either Fig. T3 or Fig. T4.

**Step 8-7:** From the front of the door section, find the center of the distance between embosses and the middle of the section height. According to the template found in Step 8-6, line up the vertical and horizontal center lines. Drill the indicated 1/2" holes through the section and insulation.

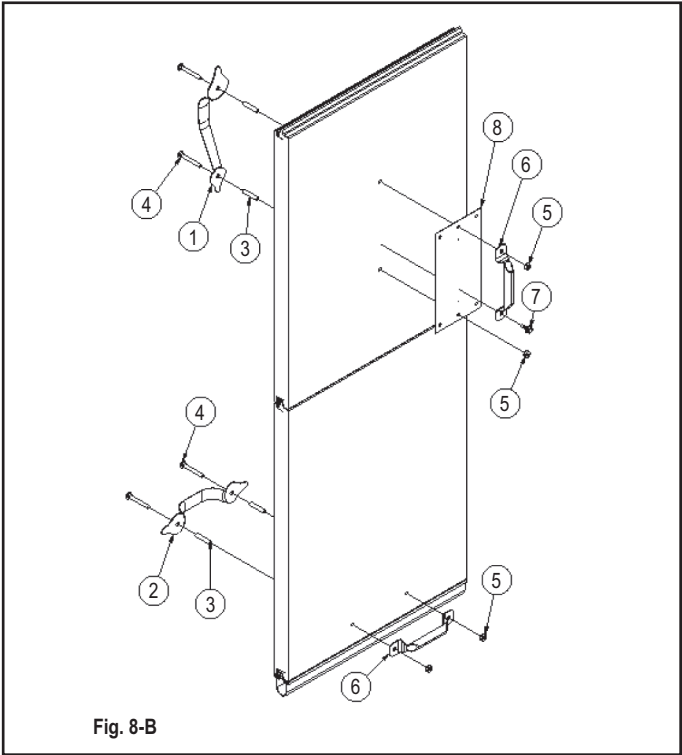
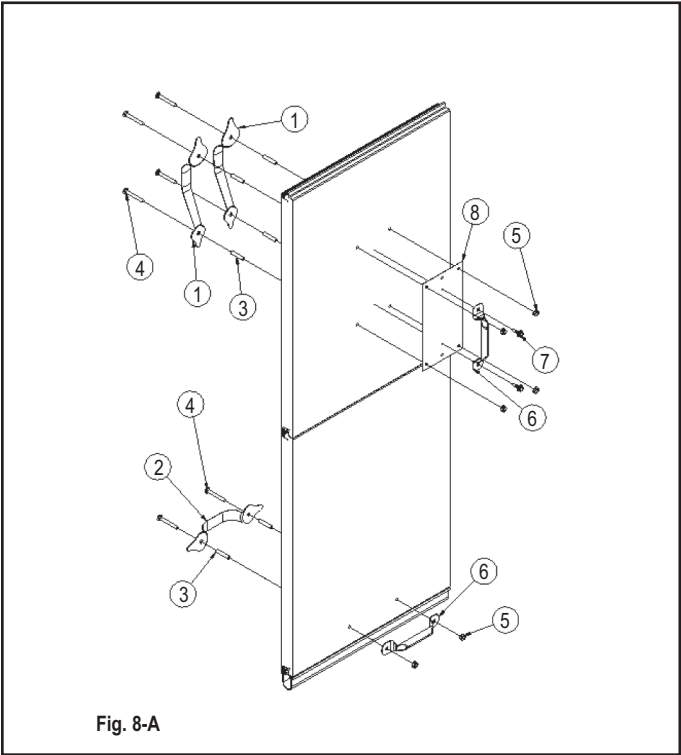
**Step 8-8:** (Two outside spade handles): For one outside spade handle, skip to Step 8-9. For two outside spade handles, attach the handle backer plate to the back of the door with two #14 x 5/8" sheet metal screws going through the inside roll grip handle and into the inside skin. (Fig. 8-A) Make sure the holes in the handle backer plate line up with the drilled holes in Step 8-7.

Slide two 1/4" black headed carriage bolts through the vertical spade handle, the handle spacers, the door section and through the backer plate. Secure on the inside with 1/4" flange nuts. Do this for each handle. (Fig. 8-A) Skip to Step 8-10.

**Step 8-9** (One outside spade handle): For one outside spade handle, slide two 1/4" black headed carriage bolts through the vertical handle, handle spacers, door section and through the backer plate. The top carriage bolt should also go through the top hole of the roll grip handle. The bottom of the roll grip handle is attached with a #14 x 5/8" sheet metal screw into the backer plate. (Fig. 8-B)

**Step 8-10:** Repeat Steps 8-7 through 8-9 for second handle set (if applicable).

Item No.	Description
1	Black Vertical Spade Handle
2	Black Horizontal Spade Handle
3	1/2" OD Handle Spacer
4	1/4" Black Head Carriage Bolt
5	1/4" Flange Nut
6	Roll Grip Handle
7	#14 x 5/8" Sheet Metal Screw
8	Handle Backer Plate





## STEP 9 – Installing Door Sections

**Step 9-1:** Place the section in the opening so that it is against the stop molding and centered from side to side. Place a level on the section and use a piece of wood under one end or the other (if necessary) to make the section level. (Fig. 9-A)

**Step 9-2:** Remove the level and drive a 3" nail in the jambs at each end and bend it over the edge of the section to hold the section in place. (Fig. 9-B)

**NOTE:** These nails are all that will hold the stacked door section in place until the tracks are secured to the back jambs. Be sure the nails hold the sections firmly in position.

**Step 9-3:** With Table 9 below, determine the order in which you will attach the remaining sections.

**NOTE:** If a lock assembly was ordered with the door, the holes for the lock may be predrilled. (Lock templates are included in the lock instructions for doors without predrilled holes.)

**Table 9: Section Order for Various Door Heights**

Door Height	1st (Bottom) Section	2nd (Lock) Section	3rd Section*	4th Section
6'0"	24"	24"	24"	—
6'3"	18"	18"	18"	21"
6'6"	21"	18"	18"	21"
6'9"	21"	21"	18"	21"
7'0"	21"	21"	21"	21"
7'3"	21"	21"	21"	24"
7'6"	24"	21"	21"	24"
7'9"	24"	24"	21"	24"
8'0"	24"	24"	24"	24"

\* Section with general safety label.

**Step 9-4:** Place the next section face down on the sawhorses. If your door is predrilled for a lock, this section will be the one with holes in the center of the panel face. Identify the bottom edge as shown in the illustration. (Fig. 9-C)

Attach a number 2 hinge to each end at the top edge using #14 x 5/8" sheet metal screws. Remember that the number is stamped on the side of the hinge that is to be attached to the section. Attach a number 1 hinge to all other prepunched holes along the top edge of the section.

**Step 9-5: Keyed Lock Installation.** If you wish to install a keyed lock, begin the lock installation now according to the supplemental instructions included with the lock hardware. If your door did not come with a keyed lock, install lift handle as shown on previous page.

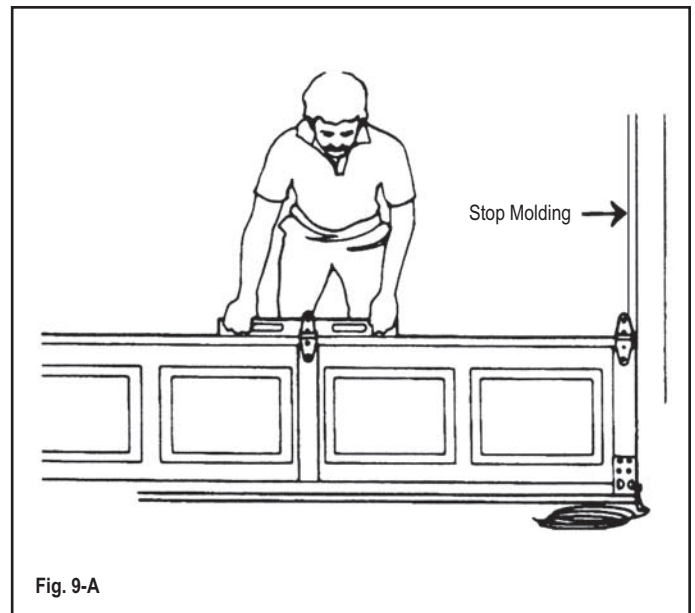


Fig. 9-A

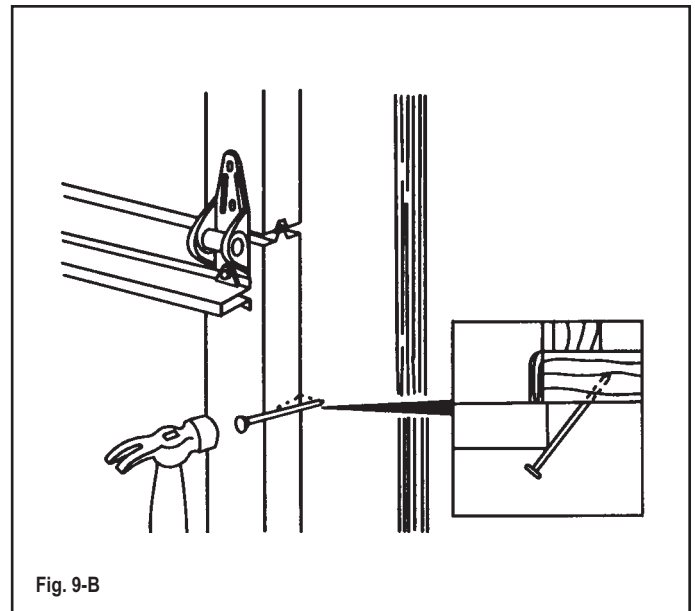


Fig. 9-B

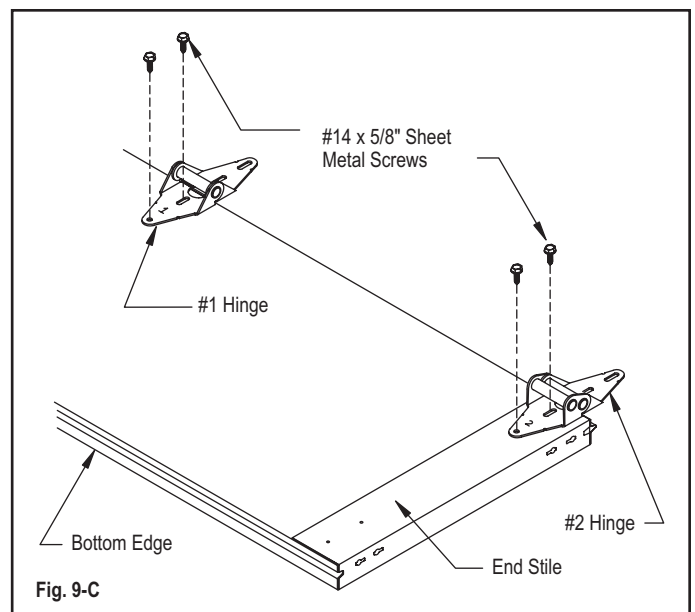


Fig. 9-C

## STEP 9 – Installing Door Sections (Continued)

**Step 9-6:** Place the second section on top of the first section. Drive a 3" nail in the jambs at each end and bend it over the edges of the section to hold the section in place. Attach the hinges from the top of the first section to the bottom of the second. (Fig. 9-D)

**Step 9-7:** Place the third section on sawhorses. Attach #3 hinges to the ends at the top edge and #1 hinges to each pair of pre-punched holes along the top edge using #14 x 5/8" sheet metal screws. (Fig. 9-E)

**NOTE:** If your door was supplied with more than 1 strut (consult Table 7 on bottom of page 10), use 1/4" x 3/4" self-tapping screws to attach strut as shown in Fig. 7-F on page 10. When predrilled holes in strut do not line up vertically with hinge locations, you will be required to drill (2) 3/16" pilot holes through the strut, hinge and back skin of door at each hinge location, or use a drill or impact wrench with a 7/16" socket to drive self-tapping screws through strut and hinge and into door. (Fig. 9-E)

**Step 9-8:** Place the third section on top of the other sections and nail in place as before. Attach the hinges from the top of the previous section to the bottom of this section. (Fig. 9-D)

If you have two sections left, repeat Steps 9-7 and 9-8 using #4 hinges on the end of the top edge and #1 hinges to all other stiles along the top edge.

**Step 9-9:** Place the last section on the sawhorses. Attach the top roller brackets as shown. The top roller brackets are to be attached with three #14 x 5/8" sheet metal screws. The top of the bracket goes into the bottom hinge hole. The bottom of the bracket goes in smaller holes, either 6-1/4" or 8" (depending on door model) from the top of section. (Fig. 9-F)

**NOTE:** 8' and 10' wide doors with 3" end stiles and windows in the top section require the addition of (2) 1/4" washers on the bottom of each top bracket before installation of screws. (See inset in Fig. 9-F.)

If your door was supplied with any struts (consult Table 7 on bottom of page 10), use 1/4" x 3/4" self-tapping screws to attach strut as shown in the illustration. When predrilled holes in strut do not line up vertically with hinge hole locations, you will be required to drill (2) 3/16" pilot holes through the strut and the back skin of door at each hinge hole location, or use a drill or impact wrench with a 7/16" socket to drive self-tapping screws through strut and into door. (Fig. 9-F)

**Step 9-10:** Place the top section on top of the other sections and nail in place as before. Attach the hinges from the top of the previous section to the bottom of this section. (Fig. 9-D)

**NOTE:** If your door is to be used with an electric operator, you must reinforce the top section before placing it in the opening. Proceed to step 10 prior to completing this step.

**Step 9-11:** Place a roller in the top and bottom brackets and in the tubes in each of the hinges at the ends of each section. Some hinges have two tubes. Place the roller in the tube that is farthest from the face of the door. (Fig. 9-G)

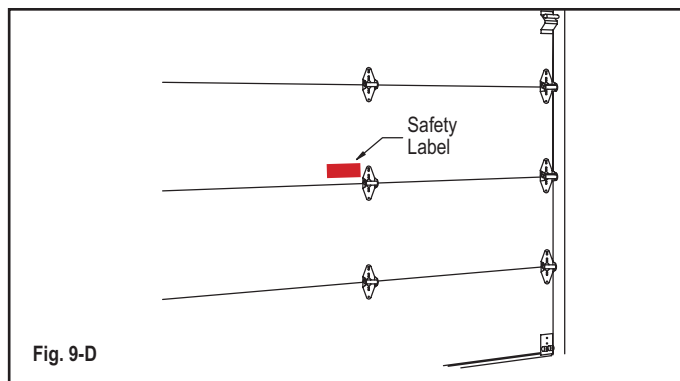


Fig. 9-D

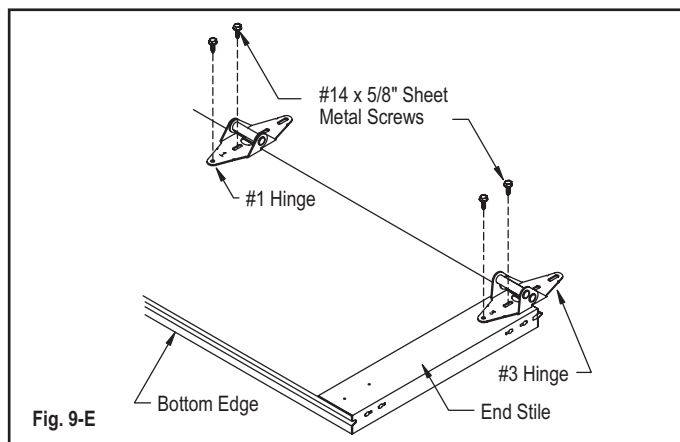


Fig. 9-E

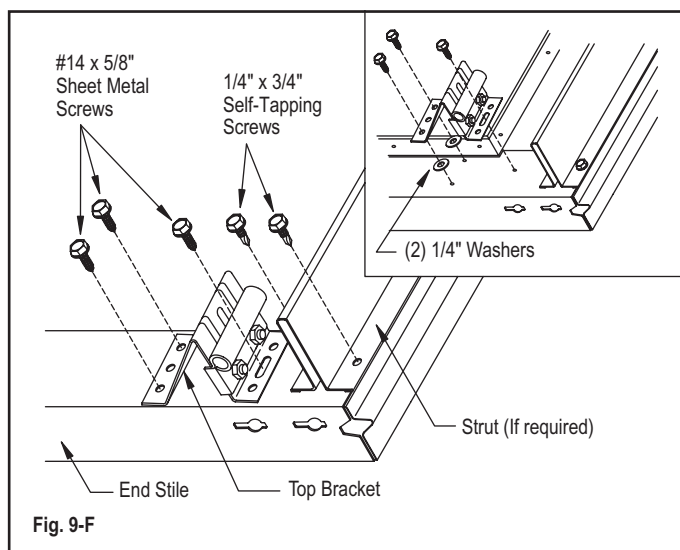


Fig. 9-F

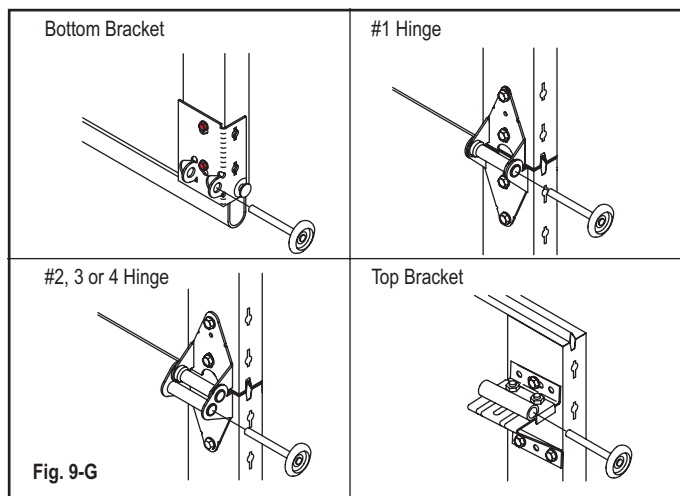
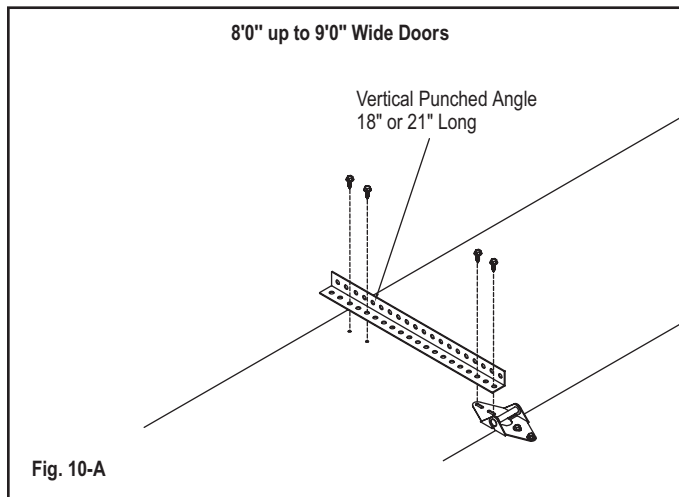


Fig. 9-G

## STEP 10 – Reinforcing the Top Section for Opener

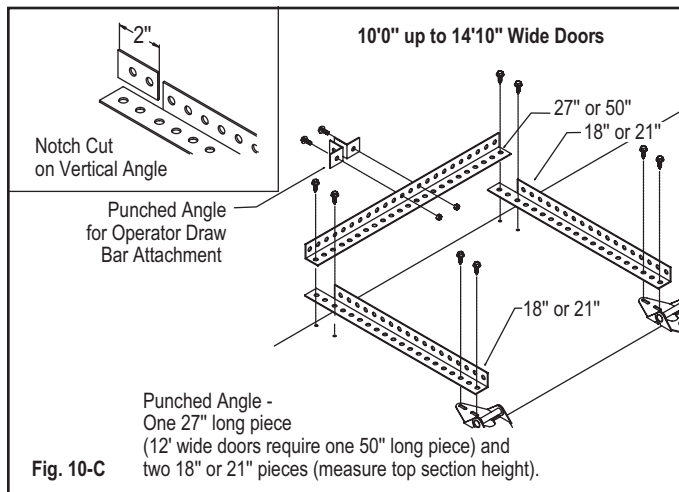
To avoid damage to your door, you must reinforce the top section of the door in order to provide a mounting point for the opener to be attached. You will need one (1) or three (3) pieces of 1-1/4" x 1-1/4" minimum punched angle at least 13 gauge or 3/32" thick from your local hardware or building supply store. Figures 10-A through 10-D show how punched angle is to be affixed to door. Angle iron may need to be trimmed depending on door section height and distance between center stiles.

**Do NOT install the bracket supplied with the opener. Failure to reinforce the door, as illustrated, will void your warranty.**



Required materials:

- (1) 18" or 21" length of angle iron, and
- (4) #14 x 5/8" sheet metal screws.

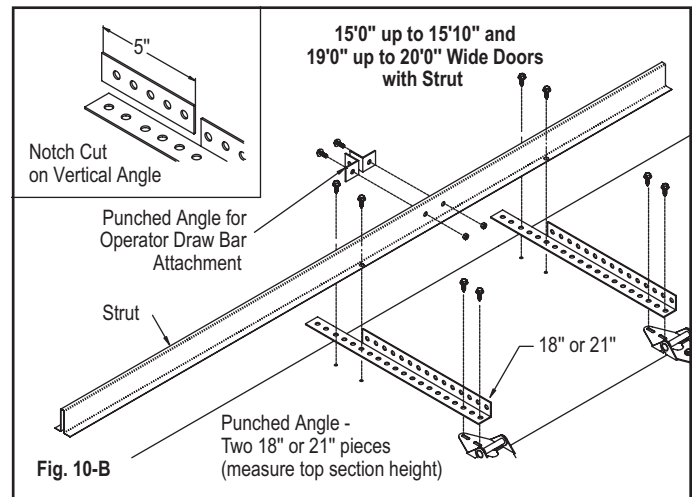


Required materials:

- (2) 18" or 21" and (1) 27" or 50" length of angle iron
- (2) 1/4" x 1" bolts, (2) 1/4" lock washers, (2) 1/4" nuts,
- (8) #14 x 5/8" sheet metal screws.

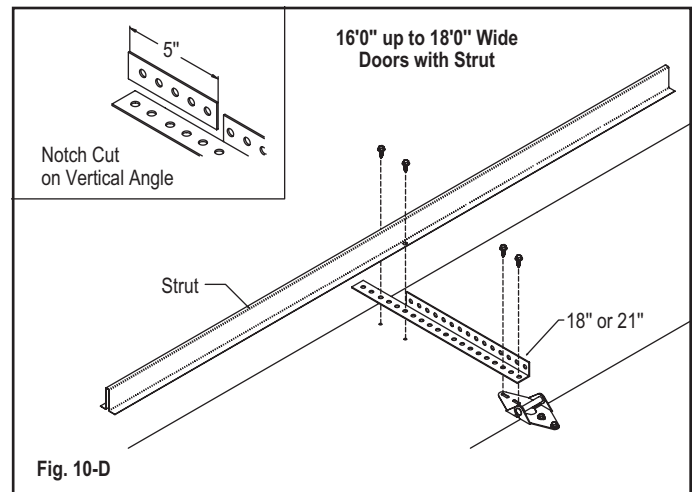
**NOTE:** An opener bracket kit specifically designed for opener attachment may be included or may be purchased as an option (silver galvanized or white powder coated). Instructions are provided with the kit.

**NOTE:** Operator may be attached up to 2 feet off center. (Doors with torsion springs only)



Required materials:

- (2) 18" or 21" lengths of angle iron, (2) 1/4" x 1" bolts,
- (2) 1/4" lock washers, (2) 1/4" nuts, (4) #14 x 5/8" sheet metal screws, and (4) 1/4" x 3/4" self-tapping screws.



Required materials:

- (1) 18" or 21" length of angle iron,
- (2) #14 x 5/8" sheet metal screws, and
- (2) 1/4" x 3/4" self-tapping screws.



## STEP 11 – Assembling and Installing the Track

Before assembling brackets to vertical track, be sure to read Step 11-1 and Step 11-2. Refer to illustration for placement of brackets on track.

**NOTE:** Brackets may already be riveted in place. If additional adjustment is required, the rivets can be drilled out and the brackets can be reattached with track bolts and flange nuts (available through the toll-free Consumer Services number, see outside cover).

### **WARNING**

**To avoid installation problems that could result in injury or property damage, use only track provided with new door.**

**Step 11-1:** Loosely fasten the track brackets to the vertical track using one 1/4" x 5/8" track bolt and 1/4" flange nut as shown with the head of the bolt inside the track. There are two sizes of brackets for 7' high doors, and three sizes for 8' high doors. The shortest track brackets should be installed ten inches from the bottom of the track with the flange facing the flat side of the track, one on the left and one on the right. The next larger sized pair of brackets should be installed centered on the track. If you have an 8' high door, the remaining pair of brackets should be installed ten inches from the top of the vertical track. The flat side of the track goes toward the wall. (Fig. 11-A)

**Step 11-2:** Loosely attach the flag bracket to the top of the track with two 1/4" x 5/8" track bolts and 1/4" flange nuts with the head of the bolts in the track. Make sure bolts and nuts are attached through the proper holes in flag bracket for your door thickness. (Fig. 11-C)

(Refer to Fig. 11-B to determine proper bolt placement.)

**NOTE:** If additional adjustment is required, horizontal slots in flag brackets can be used for attachment to vertical track.

**Step 11-3:** Place the track over the rollers on the door. Move the track close to the door so that the rollers are all the way into the hinges. Do not force the track too tightly or the door will bind. This should leave about 1/2" between the edge of the door and the track. Pilot holes of 3/16" are required at each lag screw location before installing the lag screw. Lift track about 1/2" from the floor and fasten the flag bracket and track brackets to the jamb with 5/16" x 1-5/8" lag screws. The flag bracket requires three screws, one each in the top, middle and bottom holes. Do this for both sides of the door. When the track brackets and flag brackets are securely fastened to the jamb, tighten the track bolts and flange nuts connecting the flag brackets to the tracks. (Fig. 11-D)

**NOTE:** The tops of the vertical tracks must be level with each other. Check this by measuring from the top of the door sections to the top of the track on both sides. If they are not equal, cut some material off the bottom of one track to lower it or raise the other track.

**Do not raise the vertical track beyond the bottom rollers on the bottom section of door.**

**NOTE:** Do not attach any brackets directly to drywall. All track brackets, flag brackets and spring brackets should be attached directly only to wood bucks.

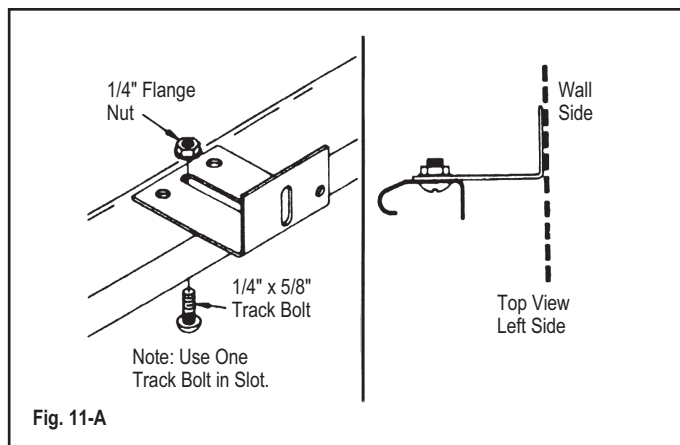


Fig. 11-A

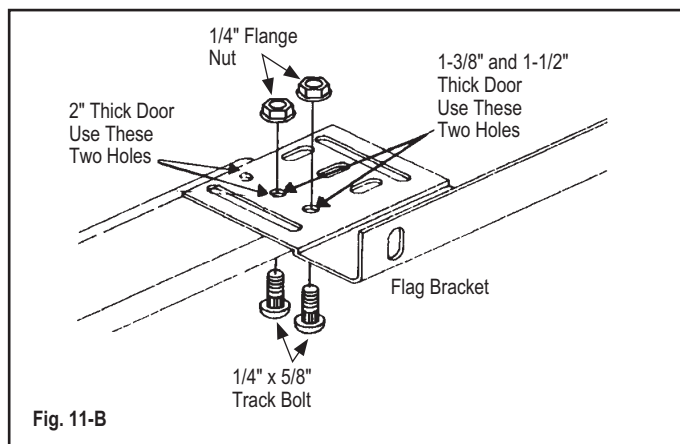


Fig. 11-B

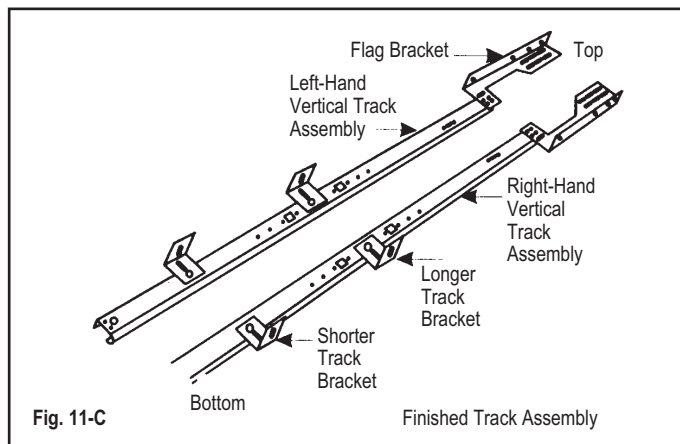


Fig. 11-C

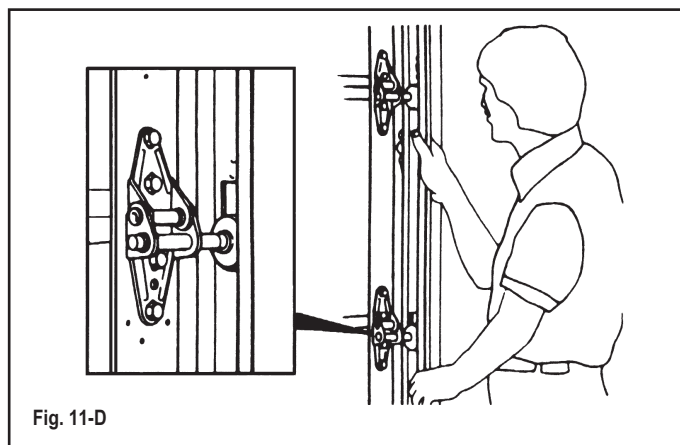


Fig. 11-D

## STEP 11 – Assembling and Installing the Track (Continued)

**NOTE:** Pressure-treated lumber purchased after January 2004 is treated with chemicals that have highly corrosive effects on metal fasteners. The fasteners provided with your door are intended for use with standard lumber (not pressure-treated) only. If you are installing your door into an opening framed with pressure-treated lumber purchased after January 2004, two items must be changed: 1) 5/16" x 1-5/8" lag screws with a minimum galvanization equivalent to G185 must be purchased for this application, and 2) to prevent potential corrosion between lumber and track/spring components, paint either the surface of the pressure-treated lumber or those surfaces of the track and spring components that come in contact with the pressure-treated lumber.

**Step 11-4:** Fasten the horizontal angle to the horizontal (curved) track with two 1/4" x 5/8" track bolts and 1/4" flange nuts so that the heads of the track bolts are on the inside of the track. On some doors this angle may be 82" long and will require three additional fasteners per side. If the angle has been preassembled, skip Step 11-4 and proceed with Step 11-5. (Fig. 11-E)

**Step 11-5:** Temporarily support the rear end of the track with a rope from the trusses overhead in the garage or on a tall ladder. (Fig. 11-F)

**Step 11-6:** Place the track over the roller in the top bracket. Attach the curved end of the horizontal track to the flag bracket with two 1/4" x 5/8" track bolts and 1/4" flange nuts so that the heads of the screws are on the inside of the track. The horizontal and vertical track must join together to form a continuous channel for the rollers. Attach the end of the horizontal angle to the top of the flag bracket with a 3/8" x 3/4" carriage bolt and 3/8" hex nut. Use the top set of slots for 15" radius track, the middle set of slots for 12" radius track, and the bottom set of slots for low headroom track. (Fig. 11-G)

**Step 11-7:** Rear track hangers need to be made at this time. Use 1-1/4" x 1-1/4" punched angle, 13 gauge or 3/32" steel. These are not provided with the standard hardware. They are used to attach the rear of the horizontal track to the ceiling joist.

Enough angle iron or punched angle should be purchased to make two rear track hangers. These hangers must be strong enough to hold the full weight of the door. Attach a bolt at least 1" long through the end of each track to stop the door at the end of its travel. (Fig. 11-H)

### **WARNING**

**Sway braces must be used to prevent tracks from spreading and allowing door to fall, which could cause serious injury. Bolts placed in the end of each track (Fig. 11-H) must be at least 1" long to prevent the top section from exiting the track.**

**NOTE:** Rear track hangers should not be mounted any farther than 6" from the end of horizontal track.

**Step 11-8:** Placement of rear track hangers is critical for the door to operate properly. The rear track hangers should hold the horizontal track level and square to the door. Squareness should be measured by comparing two diagonal distances: 1) the distance from the top left-hand corner of the door to the rear of the right-hand horizontal track and 2) the distance from the top right-hand corner of the door to the rear of the left-hand horizontal track. (Fig. 11-I, opposite page)

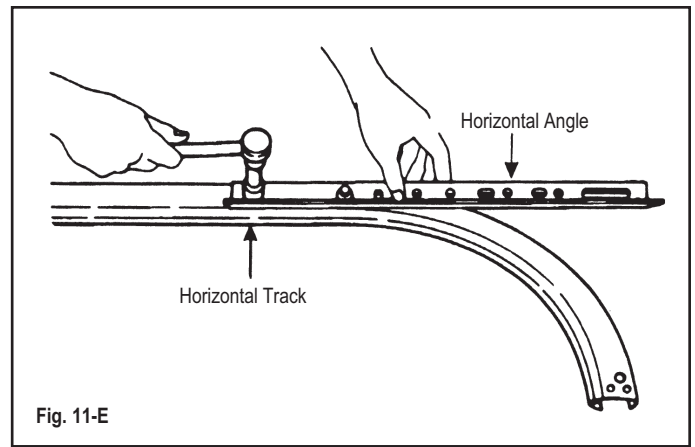


Fig. 11-E

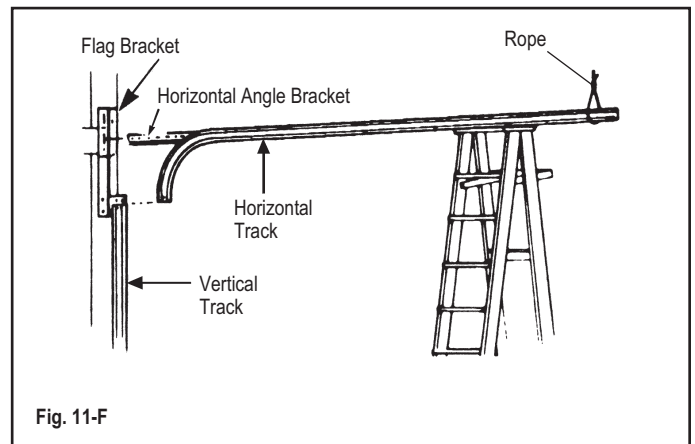


Fig. 11-F

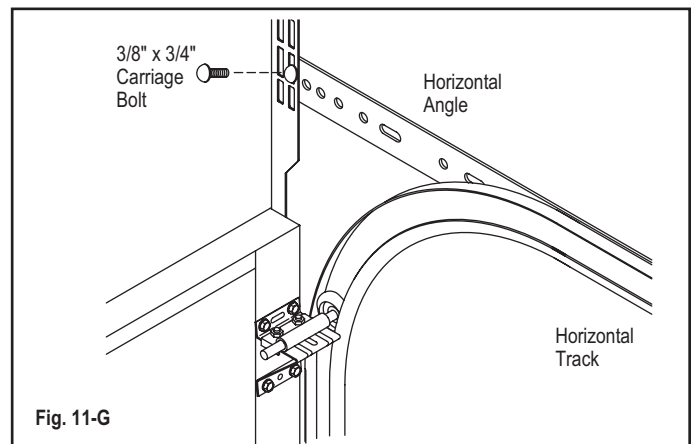


Fig. 11-G

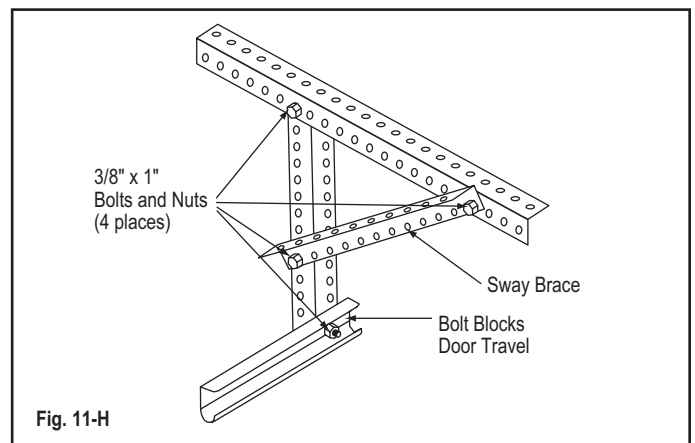


Fig. 11-H

**Step 11-8, Continued:** Adjust the position of the tracks if the squareness distances are not within 1/2" of each other. Horizontal track can be out of level up to 1" from front jamb to rear track hanger. (Fig. 11-I)

When the track is square and level with the opening, the track hangers can be fastened permanently to the ceiling trusses. Three 5/16" x 1-1/2" lag screws are recommended. Be sure 3/16" pilot holes are drilled before installing 5/16" lag screws. The attachment must be strong enough to hold the weight of the door.

## ⚠ WARNING

**Use adequate length screws to fasten rear track hangers into trusses. Door may fall and cause serious injury if not properly secured.**

**Step 11-9:** With the track installed, the top door section can now be properly adjusted. With the slide on the top bracket loose, force the top of the door against the stop molding or door jamb. Pull the roller toward you so it is tight against the groove in the track and tighten the slide bolts. (Fig. 11-J)

At this time, remove the 3" nails that were used to hold sections in place prior to installation of the track assembly. (Refer back to Fig. 9-B.)

## STEP 12 – Lock Installation (If Included) Keyed Lock:

If your door has an exterior keyed lock, please complete the installation of the lock at this time following the instructions provided with your lock hardware. If your door has a slide bolt lock, install according to the instructions below.

### Slide Bolt:

The inside slide bolt is installed on the end stile of the second section using (4) #14 x 5/8" hex head sheet metal screws (steel doors) or (4) 1/4" x 1" lag screws (wood doors). (Fig. 12-A)

**NOTE:** 3/16" holes may have to be predrilled before installing the screws.

The slide bolt rests against the top of one of the rectangular engaging slots in the vertical track. Proper alignment is easier to achieve by using track as a guide.

**NOTE:** It may be necessary to knock out the slug in the vertical track to open the slot for lock engagement. Remove slug by striking with a hammer from the outside of the track.

**IMPORTANT:** If your door is going to be equipped with an automatic garage door opener, make sure that the door is always unlocked when the opener is being used. This will avoid damage to the door.

## STEP 13 – Pull Rope (Manually Operated Doors Only)

To complete the door section installation, tie the pull rope provided to the bottom roller shaft. (Fig. 13-A)

## STEP 14 – Spring Installation

**It is now time to install the spring. Proceed to springing instructions that came with your spring hardware.**

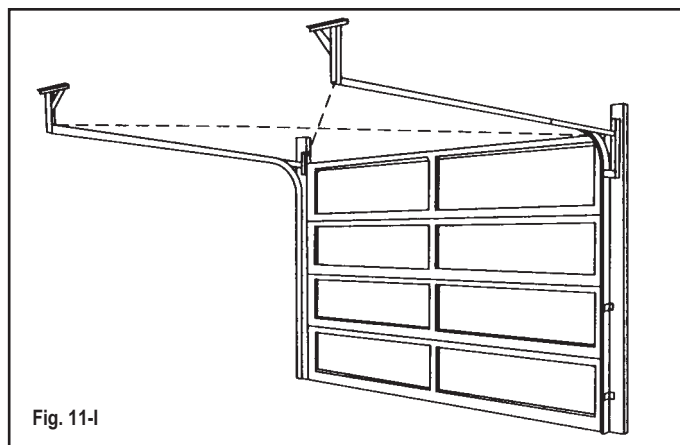


Fig. 11-I

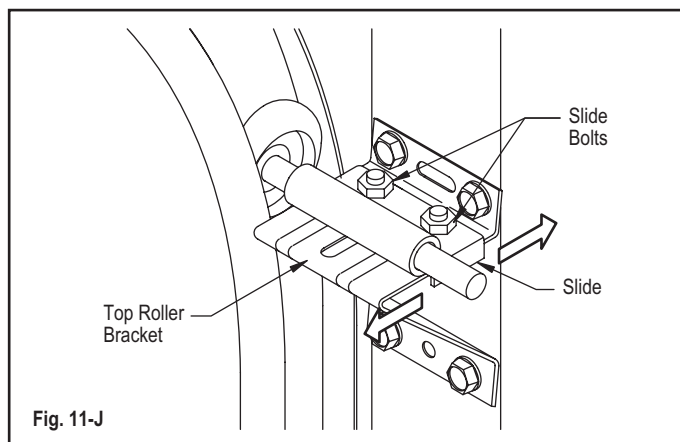


Fig. 11-J

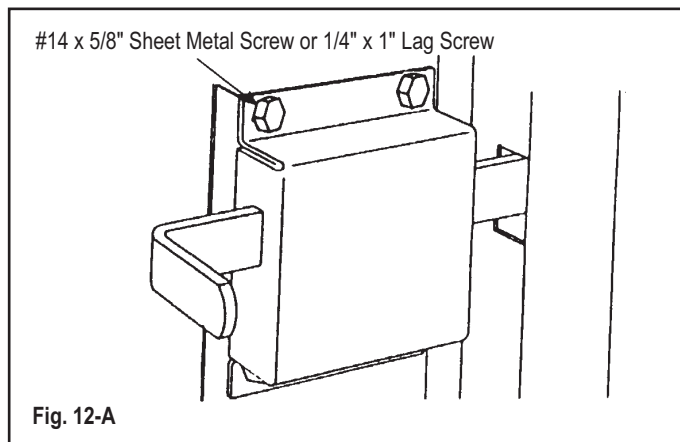


Fig. 12-A

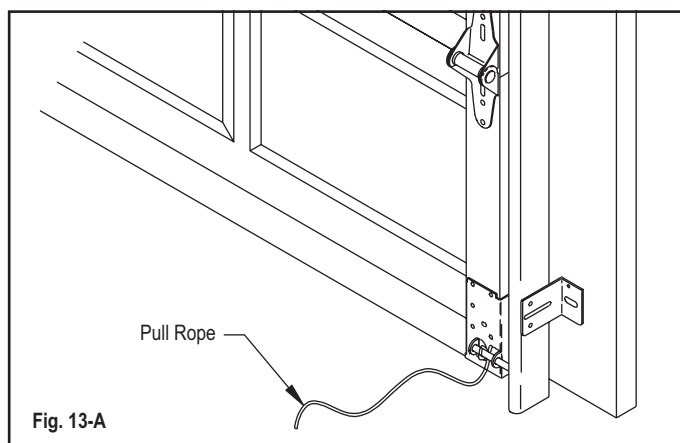


Fig. 13-A



## STEP 15 – Attaching an Automatic Opener

**IMPORTANT:** To avoid damage to your door, you must reinforce the top section of the door in order to provide a mounting point for the opener to be attached. Refer to the section of this manual titled Reinforcing the Top Section on page 14 for specific instructions. Failure to reinforce the door as illustrated will void the warranty on your door.

### **WARNING**

To avoid risk of strangulation or personal injury to children, if your door has a pull rope, you must remove the pull rope when you install an automatic garage door opener.

**IMPORTANT:** When installing an automatic garage door operator, make sure to follow manufacturer's installation and safety instructions carefully. **Remove the pull rope and unlock or remove the lock.** If attaching an operator bracket to the wooden anchor pad, make sure the wood anchor pad is free of cracks and splits and is firmly attached to the wall. Always drill pilot holes before attaching lag screws.

The operator arm will usually be attached to the vertical reinforcement member at roughly the same height as the top roller of the door. Attach the opener arm to the reinforcement as shown in Figures 15-B through 15-D. To prevent the top of the door from bending, the opener rail should be mounted no less than 2" and no greater than 5" from the face of the door with the door in the open position. (Fig. 15-A) Additionally, when the door is closed, the portion of the operator arm attached to the door should be at angle of approximately 60 degrees from the vertical. (Fig. 15-B)

Opener Rail Mounting Distance

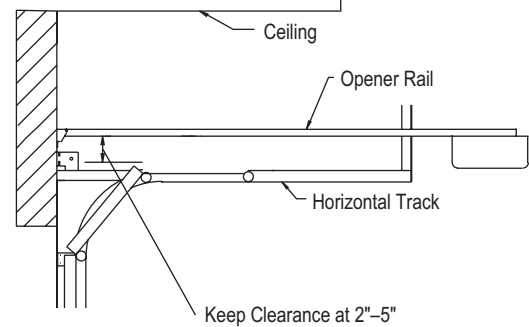


Fig. 15-A

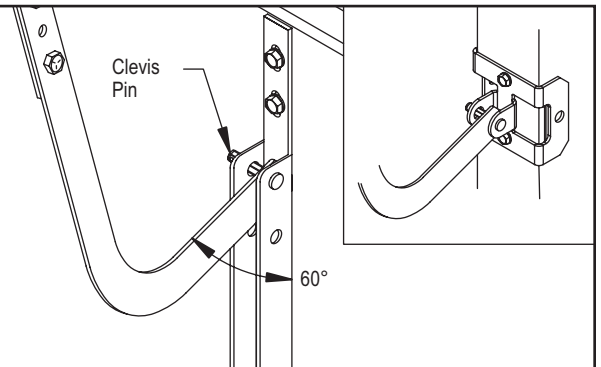
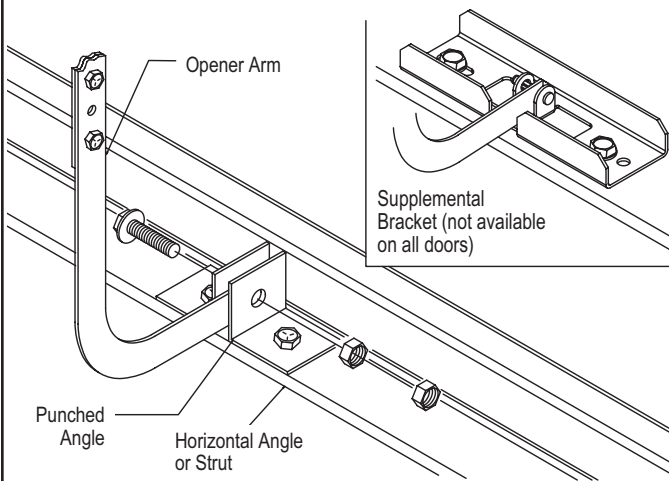


Fig. 15-B (Doors with supplied reinforcement bracket and stile in center of door)

Opener Arm Attachment to Horizontal Angle or Strut



Front View (assembled)

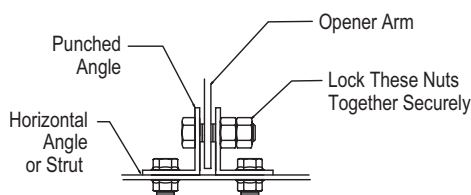
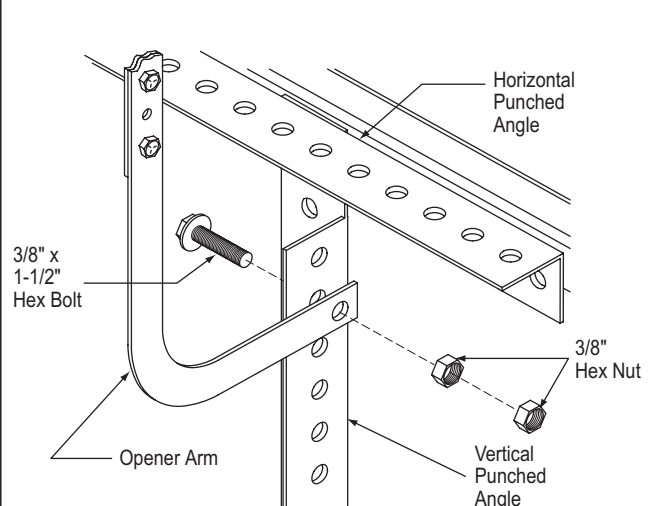


Fig. 15-C (Doors with odd number of panels)

Opener Arm Attachment to Vertical Angle



Top View (assembled)

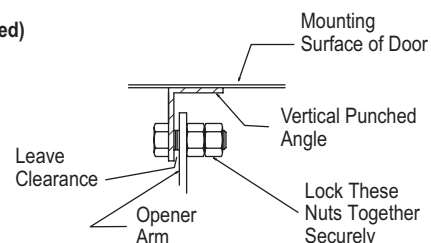


Fig. 15-D (Doors with angle iron reinforcement bracket and stile in center of door)

## Painting Your Door

**Painting:** Your steel garage door can be painted with a high quality 100% acrylic latex (flat, satin or semigloss) exterior grade paint. Before painting the door it must be free of dirt, oil, caulk, waxes and mildew.

**Do not use any type of oil-based paint or alkyd modified paint. These paints will void the warranty of your door.**

**If your door is an Intellicore® product, if the desired color has a Light Reflectance Value (LRV) of less than 38, only a pre-approved solar reflective paint can be used. For a list of pre-approved paints, call the consumer hotline or visit: <http://info.garagedoors.com/lrv>.**

**Painting preparation:** Clean surface first with a diluted solution of Trisodium Phosphate. The recommended concentration is 1/3 cup of powder to 1-1/2 to 2 gallons of water. A cleaning pad (3M synthetic steel wool GRAY not green) should be used saturated with this cleaning solution. Rub with even pressure to lightly scuff the surface while applying the cleaning solution over all surfaces to be painted. A final wipe and rinse with clean water and sponge should be done to remove any loose material. Change water often to ensure clean rinse and allow to dry. Pretest your paint on a small area (see paragraph **Paint** below). If the paint shows signs of poor adherence (tape test below), there may be a problem with the paint or the surface preparation. **DO NOT PROCEED!** A new paint or further preparation of the surface is called for.

**Alternative cleaning compounds:** Areas of the country that do not carry Trisodium Phosphate can use a biodegradable cleaner with the cleaning pad above. Follow above directions to rinse completely and pretest paint.

**NOTE:** Sanding could remove rust-inhibiting compounds; therefore, sanding should be done only to damaged areas where bare metal has been exposed. Refer to the "Paint repair" section of these instructions.

**Paint repair:** Should your door's paint finish become damaged, exposing the bare metal, it will become necessary to repair this area to prevent rust from forming. The damaged area should be lightly sanded with a medium to fine sandpaper, making sure to remove all visible red and white rust. Wipe this area with a dry, clean rag. Coat the sanded area with a high quality, rust inhibiting, zinc enriched primer. This type of primer can be found at most paint or hardware stores and should be labeled for covering bare and galvanized steel. Once the primer is applied, wait the time specified on the primer's instructions before you finish painting your door.

**Paint:** Your steel garage door can be painted with a high quality, 100% acrylic latex (flat, satin or semigloss) exterior grade paint. Since all paints are not created equal, the following test needs to be performed: paint should be applied on a small area of the door (following the instructions on the paint container), allowed to dry, and evaluated prior to painting the entire door. Paint defects to look for are blistering and peeling. An additional test is to apply a strip of masking tape over the painted area and peel back, checking to see that the paint adheres to the door and not to the tape.

After satisfactorily testing a paint, follow the directions on the container and apply to the door. Be sure to allow adequate drying time should you wish to apply a second coat.

Window frames and inserts can be painted with a high quality, 100% acrylic latex. The plastic should first be lightly sanded to remove any surface gloss.

**NOTE:** Do not apply paint when door surface temperature is different from manufacturer's suggested temperature range for application.

## Snap-In Grille Removal and Replacement:

**NOTE:** DO NOT REMOVE SCREWS from the window frame. Decorative grilles are designed to snap in and out of the window frame.

Some doors with windows have a decorative grille attached in front of the window. The grille can be removed for cleaning or painting purposes.

- 1) Remove the tabs on the vertical legs of the grille (two on short panel windows, six on long panel windows) from the notches in the front window frame.
- 2) The grille can be firmly pulled out of the window.
- 3) Replacing the grille is the reversal of the process described for removal. The two or six longer tabs on the vertical legs of the grille must be placed in the notches under the lip of the front window frame. The two shorter tabs on the horizontal leg of the grille must be placed under the lip of the front window frame.

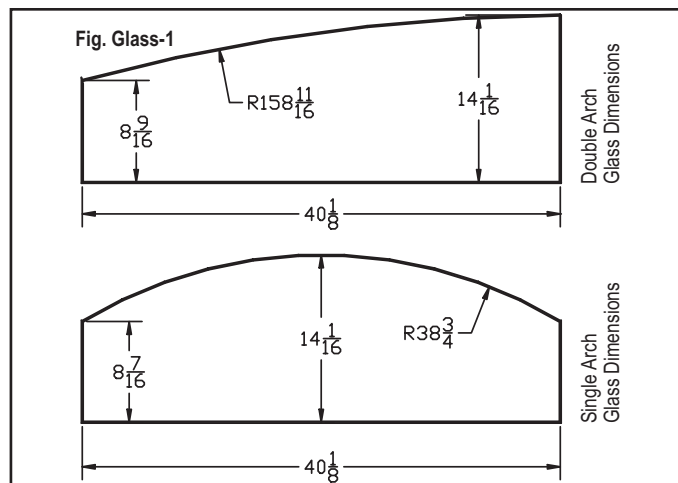
## Glass Replacement

### ⚠ WARNING

**To avoid injury, use extreme caution in handling glass window pane. When the frame is removed, the exposed steel edge of the door may be sharp. Avoid contact with the steel edges.**

**Glass replacement:** If your door is equipped with windows and the glass should need replacement, follow the steps below:

- 1) With someone holding the outside frame, remove the screws from the inside window frame.
- 2) Pull the inside frame out of the door.
- 3) Carefully remove the broken or old glass.
- 4) Insert the new glass. The glass should be 17-5/8" x 14-1/16" (short panel windows) or 40-1/8" x 14-1/16" (long panel windows). See illustration below for glass dimensions of single or double arched windows. (Fig. Glass-1)
- 5) With someone holding the outside frame, reinsert the screws into the inside frame, trapping the glass.



## Annual Maintenance

- 1) Lubricate all moving parts of the door with light household oil, including:
    - a) Lift cables at the bottom bracket button
    - b) Bearing of the sheaves
    - c) Lock hardware where surfaces turn or slide
    - d) Full length of torsion spring to reduce friction between coils
    - e) Lubricate steel rollers. DO NOT lubricate nylon rollers.
  - 2) Check for loose or bent hinges.
    - a) Tighten loose hinges.
    - b) Straighten or replace bent hinges.
- Caution:** To replace bent hinge(s) or broken roller(s):  
Door must be locked and in the down position.  
No more than 1 hinge is to be removed from the door at any given time.  
Under no circumstances should you loosen or remove the bottom bracket without disengaging the spring tension. (Follow instructions for removing extension springs.)
- 3) Check roller for broken wheels, bent shafts or worn-out bearings.
  - 4) Check the door and track supports for loose or missing bolts, screws, etc. Be careful not to overtighten.
  - 5) Check the extension cables. Are they running properly in the sheaves? Check for wear of the cable at the bottom bracket button.
  - 6) Check for bent track. If bent, call an authorized professional dealer.
  - 7) Extension spring hardware, including springs, cables, sheaves, sheave forks, bottom brackets and containment cables, should be adjusted or repaired only when the spring tension is released (the door must be open). These repairs should be made by a qualified door technician or a mechanically experienced person with proper tools and instructions.
  - 8) If your door has torsion springs, the spring assembly and wood anchor pad should be adjusted or repaired only by a professional door technician.

## Cleaning the Door

Cleaning of the door must be done periodically in order to:

- Prevent damage (rusting) caused by foreign matter adhering to the door and
- Generally restore the look of the factory-applied finish by removing dirt and chalking.

Doors should be cleaned at least twice a year or four times a year in harsh environments (coastal regions, high road salts, etc.). Working from the bottom to the top of the door sections, use a well soaked cloth, sponge, soft bristle brush, or low pressure garden sprayer with either of the following solutions:

- One cup of Simple Green® or other non-toxic biodegradable cleaner (less than 0.5% phosphate) into two gallons of warm water, or

- One cup of household ammonia dissolved into five gallons of room temperature water.

NEVER BLEND CLEANERS OR AMMONIA WITH BLEACH.  
Do not use scouring powders or solvents.

**NOTE:** Be sure to clean behind stop molding on the sides and top of the door.

Rinse door with clean water to complete cleaning.

After cleaning use a liquid car wax (not paste) to preserve the door's finish between cleanings. This is especially important in coastal and harsh environments.

## Glass, Plexiglas, Leaded, Brilliance® Series Windows Cleaning and Care Instructions

**Clean with a mild solution of a dishwashing detergent and a soft cloth. After cleaning, rinse thoroughly. DO NOT use any ammoniated, abrasive or solvent-based cleaners of any kind.**

**Large Missile Impact Windows:** Wash using a mild soap or detergent (see list of approved cleaning products below) and lukewarm water, using a clean sponge or a soft cloth. Rinse well with clean water. Dry thoroughly with a chamois or moist cellulose sponge to prevent water spots. Do not scrub or use brushes on this product.

The following cleaning agents have been found compatible with polycarbonate: Joy\*, Top Job\*\* and Palmolive Liquid\*\*.

**Caution:** Use care when handling decorative windows to avoid scraping or scratching the surface.

**NOTE:** Minor scratches or scuffs are not considered defects and will not be covered under the window warranty.

## Replacement Parts

Replacement parts are available from an authorized professional dealer or a building supply retailer. When ordering repair parts, always provide the following: part name, model number and door width and door height (W x H). For the location of the authorized professional dealer or a building supply retailer nearest you, please write or call:

Clopay Building Products, Consumer Services Dept.,  
1400 West Market Street, Troy, OH 45373 USA

Call Toll Free: 1-800-225-6729

Hours of Operation (ET): Mon. – Fri., 8:30 a.m. – 7 p.m.;  
Sat. 8:30 a.m. – 5 p.m.

## MISSING ANY PARTS?

PLEASE CALL TOLL FREE: (800-225-6729)  
PARTS WILL BE REPLACED PROMPTLY

**DO NOT RETURN DOOR TO STORE**  
(Stores Do Not Carry Spare Parts)

### IMPORTANT – Information Needed When Calling:

- 1) Model number and size of door (Located on packaging)
- 2) Spring Type (Extension, EZ-SET® Extension, EZ-SET® Torsion or Standard Torsion)
- 3) Store city and state of purchase
- 4) Contract number or serial number if special order (Located on label on the back of the door on packaging.)

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\*\* Registered Trademark of Colgate Palmolive