

STAFF REPORT: 01-22-2020 MEETING

PREPARED BY: A. DYE

APPLICATION NUMBER: 20-6606

ADDRESS: 2200 ATKINSON

HISTORIC DISTRICT: ATKINSON AVENUE

APPLICANT: ALEC SERFOZO, PROPERTY OWNER

DATE OF COMPLETE APPLICATION: 12/2/2019

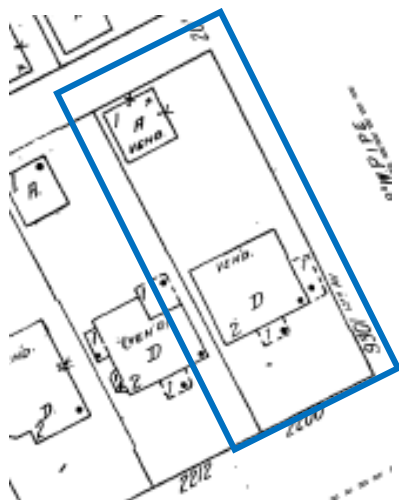
DATE OF STAFF SITE VISIT: 1/08/2020

SCOPE: REHAB GARAGE: DEMOLISH REAR MASONRY VENEER WALL, ERECT NEW WOOD FRAME WALL AND VINYL SIDING, REPLACE WOOD WINDOWS WITH VINYL WINDOWS

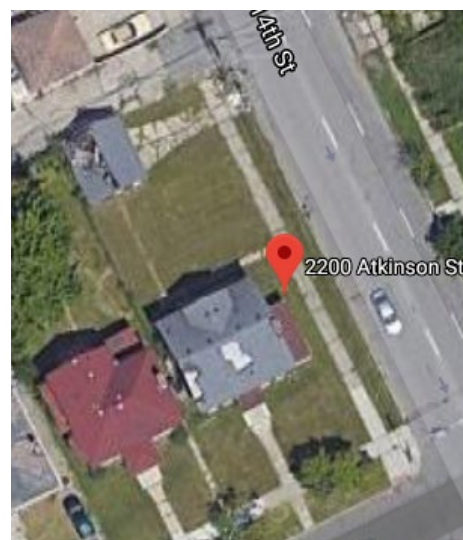
EXISTING CONDITIONS

The corner house at 2200 Atkinson was constructed in 1917. The Georgian revival-style house, with a red brick symmetrical façade, individual window openings, dentil trim and arched canopy front entrance is undergoing a complete rehab (of which many projects were staff approved in May 2019).

The two-car garage is wood frame construction with brick veneer and a reverse gable roof. It sits perpendicular to the house on the rear and side lot lines so the driveway enters onto 12th Street and extends across the rear yard. The brick veneer and placement of double-hung windows (with stone sills) within each gable echoes the overall design of the house.



2200	
Atkinson	659
17065	7-10-17
USE Dwelling	LOT NO.
CONS. Brick Veneer	DATE
REMARKS	O. K.
Frame Garage	
La Salle	
14th.	0-640





PROPOSAL

With the current proposal (a full narrative from the applicant follows this report), the applicant is seeking the Commission's approval for the following items on the garage:

- Remove and replace garage roof. Asphalt shingles to match house.
- Remove damaged masonry veneer west-facing/rear wall. Replace with new wood frame wall faced with brick red Dutch lap vinyl siding. (This will cause the removal of one wood sash, double-hung window (currently boarded over.)
- Remove and replace damaged garage door with single 16' x7' raised panel overhead door.
- Replace three (3) existing wood sash windows with vinyl windows:
 - South/side elevation – one double-hung (6/6 pattern); one cottage window (6/1 pattern)
 - North/side elevation – one double-hung (6/6 pattern)
- Replace service door with a solid wood door.
- Replace collar ties and floor between hangers.
- Reuse the existing soffits and trim, adjusting them to new size, and repainted.

STAFF OBSERVATIONS AND RESEARCH

- The buckling of the masonry wall was evident to staff during the recent site visit.
- While the rear wall isn't visible from 12th Street, it is visible from the neighboring properties and the alley right-of-way.
- The rehab underway on the main house, at this point in time, is being done with care. The garage should be given the same level of attention and sensitivity in retention of architectural detail, materials and design. (Or, replacement in-kind if evidence is given that certain features/materials are beyond repair).

ISSUES

- The applicant's narrative states a single overhead door will be installed. However, a note was made on submitted photographs calling out new double doors. Double doors are the appropriate design choice for a garage of this age.
- Vinyl siding and vinyl windows are not compatible with the historic materials on the house and garage, nor are they appropriate within a local historic district.
- A sided wall, no matter the material, would not be an appropriate repair or replacement for a historic masonry wall.
- The applicant did not supply a wall section to show how the rear wall will be re-constructed as well as a corner detail to show it will meet (or return into) the remaining brick side walls.

RECOMMENDATION

It is staff's opinion the existing garage suffers from significant levels of deterioration. However the demolition of the existing wall and removal of the masonry veneer and its replacement with a wall covered in vinyl siding, along with the installation of vinyl windows and a single overhead door, will result in the removal of historic materials and the alteration of features and spaces that characterize the property. Therefore, staff recommends the Commission deny a Certificate of Appropriateness because the proposal doesn't meet the Secretary of the Interior Standards for Rehabilitation, especially Standards:

- 6) *Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.*
- 9) *New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.*





TAFCO WINDOWS >

22 in. x 29 in. Utility Fixed Picture Vinyl Window with Grid - White

★★★★★ (101) Write a Review Questions & Answers (12)

- Made from durable vinyl for lasting use
- Great for any barn, shed or garage
- Use for installation in new construction and replacement projects

\$58⁶⁵

Save up to \$100* on your qualifying purchase.
Apply for a Home Depot Consumer Card

Width (in.) x Height (in.): 22 x 29

20 x 25	22 x 29	22 x 41.25	24 x 29	31 x 29
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Item # 368896 Model # 123462

Pella Traditional 192-in x 84-in White Double Garage Door

32 Ratings
★★★★★
3.8 Average

79%
Recommend this
product

Community Q&A
View Now



\$614.00

- Get quiet operation and durability with heavy-duty, 14-gauge hardware and nylon rollers standard
- Enjoy increased peace of mind with Pella's safe shield patented hardware
- Durable steel construction delivers lasting value

Manufacturer Color/Finish

White

1

ADD TO CART

1776781



Exterior View

36 in. x 80 in. 6-Panel Primed Premium Steel Front Door Slab

★★★★★ (99) Write a Review Questions & Answers (141)

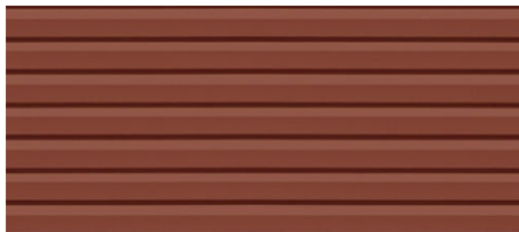
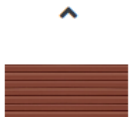
- Made of durable rust-resistant galvanized steel
- Steel slab does not include frame to customize installation
- Fits into an existing 36 in. x 80 in. frame

\$107⁰⁰

Save up to \$100* on your qualifying purchase.
Apply for a Home Depot Consumer Card

MainStreet™ Double 5" x 12' Autumn Red Dutchlap Vinyl Siding

Model Number: 3912523 | Menards® SKU: 1486571

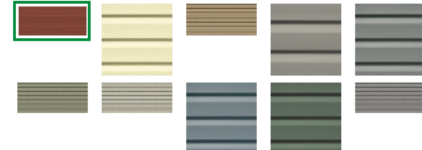


Online Price

\$9⁵⁹
each

\$0.96 /sq.ft

Variation: Autumn Red



Qty: 10

SELECT STORE & BUY





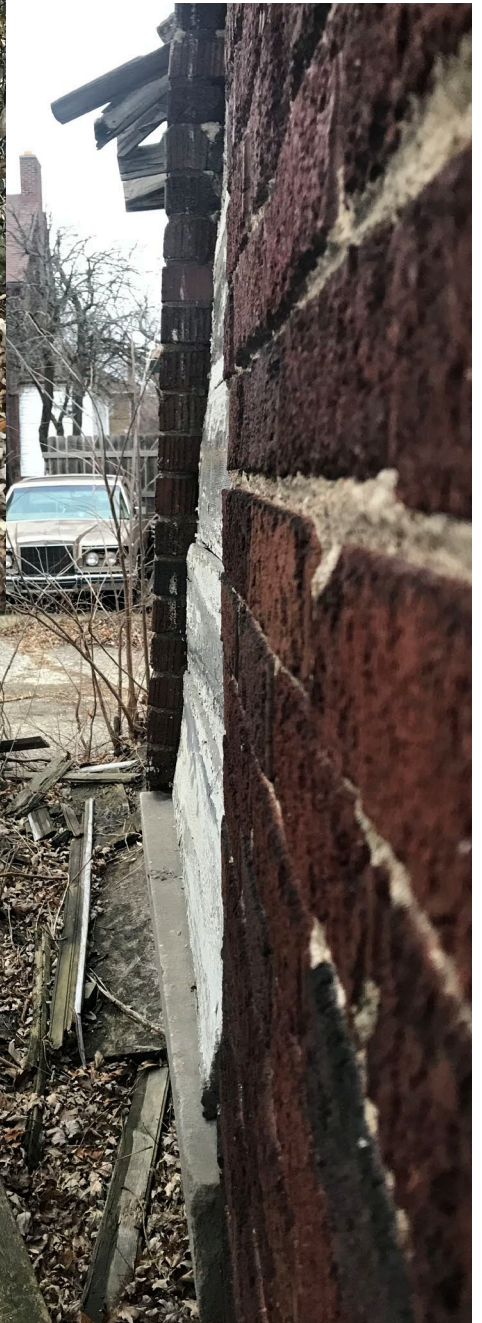


These two photos offer the clearest indication of the masonry deterioration and buckling.













Sec. 25-2-97. Atkinson Avenue Historic District.

- (a) An historic district to be known as the Atkinson Avenue Historic District is hereby established in accordance with the provisions of this article.
- (b) This historic district designation is hereby certified as being consistent with the Detroit Master Plan.
- (c) The boundaries of the Atkinson Avenue Historic District are as shown on the map on file in the office of the city clerk, and shall be:

On the north, the alley between Atkinson and Edison; on the east, the center line of the John C. Lodge service drive; on the south, the alley between Atkinson and Clairmount; and on the west, the center line of Linwood. (These boundaries include Lots 561 to .682, Joy Farm Sub (L32/P39 and 40); Lots 1-16, Lewis Park Sub (L30/P96); Lots 1-16, Jackson Park Sub (L30/P95); Lots 1-72, Boston Boulevard Sub (L29/P23); and Lots 1-16, Guerold's Sub (L29/ P87).

- (d) The design treatment level of the Atkinson Avenue Historic District shall be conservation, as provided for in section 25-2-2.
- (e) The defined elements of design, as provided for in section 25-2-2 shall be as follows:
 - (1) *Height.* Virtually all the houses in the district have two (2) full stories plus an attic or @hed third floor within the roof; these are generally called "two-and-a-half" story houses. Some two-story two-flat buildings on the 1600 block of Atkinson between Woodrow Wilson and Rosa Parks Boulevard are slightly taller in height than the single family residences. The commercial row on Rosa Parks is two (2) stories tall with a flat roof, the church building on Rosa Parks is also two (2) stories in height.
 - (2) *Proportion of buildings' front facades.* Proportion varies in the district, depending on age, style, and location within a specific subdivision. Most houses are slightly wider than tall or as wide as tall, excluding the roof. Exceptions occur primarily on corner lots where the houses that face the north south street are wider than tall. The commercial row on the southeast corner of Rosa Parks is wider than tall.
 - (3) *Proportion of openings within the facade.* Window openings are almost always taller than wide; several windows are sometimes grouped into combinations wider than tall. Window openings are always subdivided, the most common window type being double hung sash, whose area is sometimes further subdivided by muntins. Facades have approximately fifteen (15) to thirty-five (35) per cent of their area glazed. Dormer windows exist in a variety of shapes and sizes.
 - (4) *Rhythm of solids to voids in front facades.* In buildings derived from classical traditions voids are usually arranged in a symmetrical and evenly spaced manner within the facades. In examples of other styles, particularly those of English Medieval inspiration, voids are arranged with more freedom but usually result in balanced compositions.
 - (5) *Rhythm of spacing of buildings on street* The spacing of buildings on Atkinson Avenue is generally determined by the setback from the side lot lines. There is little variance in the size of lots on Atkinson between the Lodge Service Drive and Linwood; lots average thirty-five (35) to forty (40) feet wide. Most buildings are centered on their lots and are at least four (4) feet from the side lot lines as required by subdivision restrictions, with little or no side yards. Many properties have narrow driveways along the side lot line.
 - (6) *Rhythm of entrance and/or porch projections.* Most buildings in the district have entrance and/or porch projections facing the street, creating a rhythm where they exist in numbers. In those buildings of classical inspiration, porches and entrances tend to be centered on the front facades. Other stylistic examples display more freedom in entrance and front porch placement. A few houses have front porches extending to the sides of the building; some houses have their major entrances on the side of the building. The multiunit buildings between Woodrow Wilson and Rosa Parks Boulevard frequently have second story porches above the first story porches. Many porches, particularly those in the western half of the

district have metal or cloth awnings.

- (7) *Relationship of materials.* The major building materials in the district are brick and stucco, sometimes used in combination, wooden functional trim and window frames and sash are common, and wood is used in many examples as decorative trim as well. Wood sheathing is occasionally used on the attic story and/or dormers. Stone is occasionally used as a material for window sills, porch trim and other functional trim. Roughcut stone is the main material used on a rustic porch in the district. Roofing materials include asphalt shingles, slate, and Mediterranean tiles, asphalt shingles being by far the primary roofing material in the district.
- (8) *Relationship of textures.* The most common relationship of textures in the district is that of low-relief pattern of mortar joints in brick contrasted with the smooth surface of wood or stone trim. Stuccoed surfaces contrast with brick when used in combination and with wood or stone trim. Half-timbering on neo-Tudor buildings creates textural interest. Tile and slate roofs have particular textural interest where they exist, whereas asphalt shingles generally do not.
- (9) *Relationship of colors.* Natural brick colors (red, yellow, brown, buff) predominate on wall surfaces, where stucco and concrete exists, it is usually left in its natural state or painted in a shade of cream. Asphalt shingled roofs are predominantly in natural colors (tile and slate colors), and inappropriate lighter colors. Paint colors often relate to style; the classically inspired buildings generally have woodwork painted in the white and cream range. Doors and shutters feature an array of colors, usually harmonizing with the main body of the house. Colors known to have been in use on buildings of this type in the eighteenth or early nineteenth century on similar buildings may be considered for suitability. Buildings of medieval or craftsman inspiration generally have painted woodwork and window frames of dark brown, cream, or other natural tones. Original color schemes for any given building may be determined by professional paint analysis and when so determined are always appropriate for that building and may provide suggestions for similar houses.
- (10) *Relationship of architectural detail* These generally relate to style; neo-Georgian and Colonial revival buildings display classical details, mostly in wood. Areas commonly but not always treated are porches, shutters, window frames, cornices, and dormer windows. Details on Mediterranean style or vernacular buildings include arched windows, door openings, and porches. Buildings of medieval inspiration tend to have details in the form of half-timbering and leaded windows. In general, the various houses on Atkinson Avenue range from scarce to rich in architectural detail.
- (11) *Relationship of roof shapes.* A variety of roof shapes exist in the district, often relating to style. Hipped roofs with dormer and pitched roofs with either frontal or side-facing gables predominate. Flat roofs are present only as subsidiary roofs on residential structures and on the commercial row at the southeast corner of Rosa Parks at Atkinson.
- (12) *Walls of continuity.* The major wall of continuity is created by the buildings, with their uniform setbacks within blocks. New buildings should contribute to this wall of continuity. Where rows of trees have survived in sufficient numbers or new trees are planted in rows, minor walls of continuity are created.
- (13) *Relationship of significant landscape features and surface treatments.* The typical treatment of individual properties is a flat or slightly graded front lawn area in grass turf, subdivided by a walk, usually straight but sometimes curving, leading from the curb to the steps of the front entrance. There is sometimes a sidewalk beginning at the public sidewalk leading to the rear when a driveway does not exist. Materials for such walks are primarily concrete. Foundation plantings, often of a deciduous character, are present. Hedges between properties are occasional; few extend along the side yard to the front lot line. The most prominent type of fences in the district are the chain linked fence and wire mesh with wooden posts. Fences extending to the front yard are rare; most back yards are fenced. Some large American elm trees remain on the tree lawns in the district, although they are virtually extinct. Replacement trees should be characteristic of the era and period in which the houses were built (1915-1930); if elm, only a disease resistant cultivar would be a practical choice. Many straight side driveways

from the street to the rear yard are present; a common treatment of the surface of the driveway is two (2) concrete strips with grass in between or all concrete. On corner lots, garages and driveways face the side streets. Tree lawns along Atkinson are uniformly wide, about eight (8) feet. Street pavements are asphalt; curbs are concrete. Alleys are also paved in concrete. Lighting poles on Atkinson are of the wood telephone pole variety.

- (14) *Relationship of open space to structures.* Open space in the district occurs in the form of a small amount of vacant land between a few houses due to housing demolition. A city playground on the southwest corner of Atkinson and Rosa Parks Boulevard and an empty parcel on the northeast corner of Rosa Parks Boulevard and Atkinson Avenue. The John C. Lodge Freeway on the east end of the district is depressed and not visible although it results in a strong boundary to the neighborhood. All houses have rear yards as well as front yards.
- (15) *Scale of facades and facade elements.* The scale of houses remain fairly constant throughout Atkinson Avenue due to the consistency of the lot sizes. Houses are modest in scale; houses facing the north-south streets appear more substantial in character. The size and complexity of facade elements and details either accentuate or subdue the scale of the facades. Facade elements have been determined by what is appropriate for the style. Window sash are usually subdivided by the muntins or leaded glass, which effects the apparent scale of the windows within the facades.
- (16) *Directional expression of front elevations.* The expression of direction on residential blocks is generally neutral, although individual houses, particularly those on corner lots, may emphasize horizontality or verticality according to style. Some two-flat buildings on Atkinson between Woodrow Wilson and Rosa Parks Boulevard are slightly vertical in expression.
- (17) *Rhythm of building setbacks.* Setbacks from front lot lines are fairly consistent throughout the district. The varying designs of the buildings, frequently with projecting porches of different designs, cause the buildings to relate to the front setback line in different ways; this creates a light variation in setback appearance. Corner houses facing the north-south streets are setback approximately twenty (20) feet from the north-south street.
- (18) *Relationship of lot coverages.* Lot coverage averages approximately twenty (20) to thirty (30) per cent in the district.
- (19) *Degree of complexity within the facade.* The degree of complexity has been determined by what is typical and appropriate for a given style. The classically inspired buildings usually have simple, rectangular facades with varying amounts of ornamentation. Other styles, such as those of Medieval inspiration, frequently have facades complicated by gables, bays, and slight setbacks. In general, the houses in the district are of varying complexity.
- (20) *Orientation, vistas, overviews.* Most of the houses in the district have front entrances oriented towards Atkinson Avenue. Houses on LaSalle at Atkinson face LaSalle. At 14th and Atkinson the house on the southeast corner faces towards the corner and the house on the northeast corner is oriented towards Atkinson. Garages are frequently oriented towards the alley and the front drive, or side street in the case of corner lots where driveways exist. Almost all garages are detached and at the rear of the lot. A few houses have side or corner entrances as their major entrance.
- (21) *Symmetric or asymmetric appearance* Classically inspired buildings are generally symmetrical. Other styles, including the neo-Tudor, are generally asymmetric but result in balanced compositions.
- (22) *General environmental character.* Atkinson Avenue, from the John C. Lodge service drive to Linwood, with its long straight street, wide tree lawns, and moderate size single-family and two (2) four-family homes, has an urban, substantial low density residential character.

I reviewed your application with senior staff...

1. They have requested more information on how the rear of the garage will be completed with vinyl siding...
2. Please provide an elevation drawing / details that will show how the siding will be installed, how the face of the garage will be wrapped in vinyl.

3. Can you provide narrative on why you are proposing to replace this wall with vinyl siding instead of repairing brick?

We are proposing to replace the back wall of the garage with vinyl siding instead of brick for two reasons. One, we have worked with masonry to repair brick areas in other renovation initiatives and the brick was not exactly the same color in those cases. We are told that the brick is costly and extremely hard to find. Repairing this brick would come at an extreme cost that we did not anticipate when we bought the property because the brick inconsistencies were covered with plant overgrowth. That being said, it would drive us to spend more than the market value of the home to complete this project.. Our next step may be demolishing if we can't fix before the snow hits this season, because it is almost to a state of complete disrepair. The second half of our reasoning lies in the placement of the garage. The back wall that is being discussed faces the backyard fence of our neighbor, and there is absolutely no view of it from the street or corresponding sidewalks. That being said, we do not see the value to the neighborhood or our own financial position to replace the back wall with matching brick.

- 4 .With roof replacement, are you proposing to keep and repair existing soffits and trim, or will these be replaced?

We will be reusing the existing soffits and trim, adjusting them to new size, and repainting them.

- 5.Please provide more detailed photos of the windows to illustrate deterioration beyond repair...

Because the windows are on the second floor which is non-existent, there is no safe way to take a more detailed photo of the windows. I have attached photos from the third floor of our house showing the unsafe conditions. More pictures of the lower window can be taken, but our intent was to have the three windows match.

6. Window product line specs were included, but specific replacement option not spec'd... Please provide specific replacement windows.

We have not made our initial selection as it was dependent on approval. Our initial selection was the Tafco utility fixed picture vinyl window with grid - white, I've provided the link to home depot in my email. Item number 203259540 model VBS22229

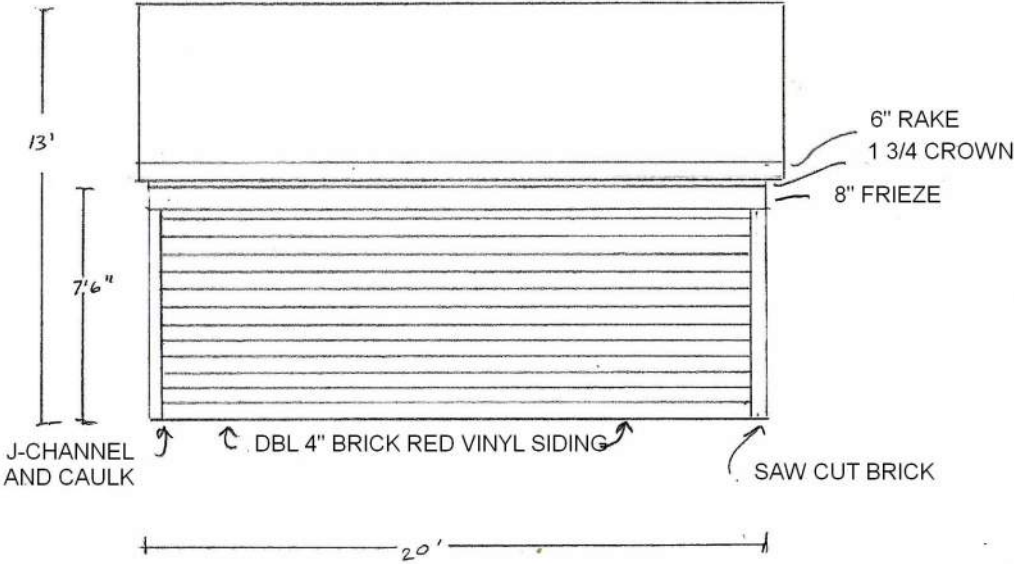
7. Same with doors, provide specific door for spec.

We have not made our initial selection as it was dependent on approval. Our initial selection was the 6 panel primed premium steel front door slab. I've provided the link to home depot in my email. Item number 202036386 model THDJW166100317

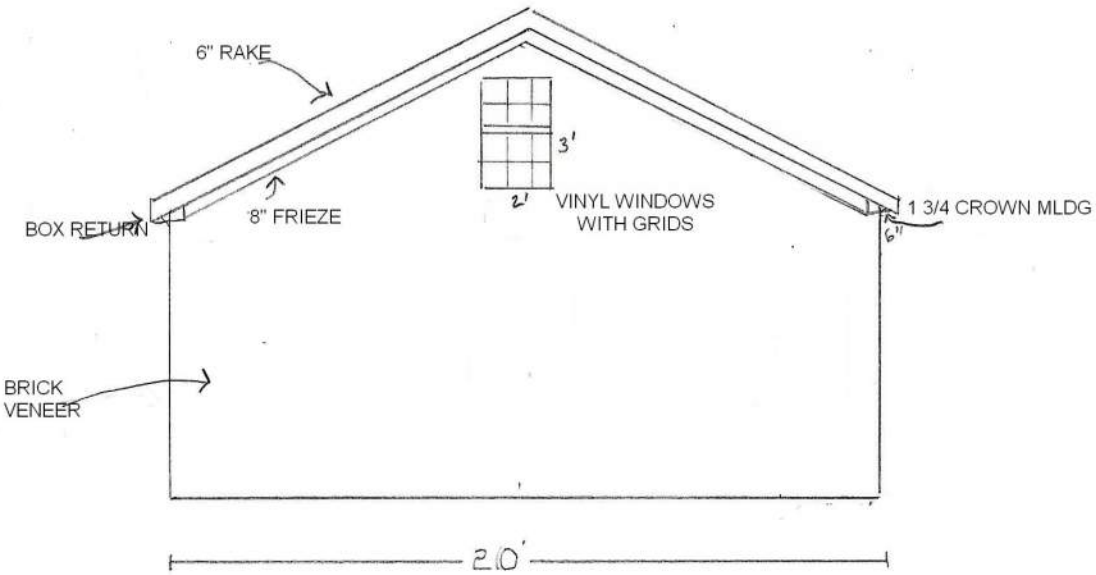
8. Same w/ garage door. Do you have picture of proposed garage door? We received instructions for installation, however, no final spec of what will be installed.

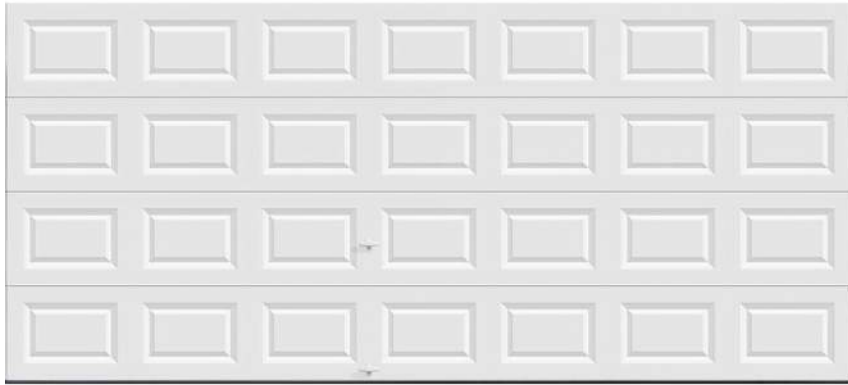
We have not made our initial selection as it was dependent on approval. Our initial selection was the Pella Traditional Whit Double Garge Door, I've provided the link to lowes in my email. Item number 368896

REAR ELEVATION

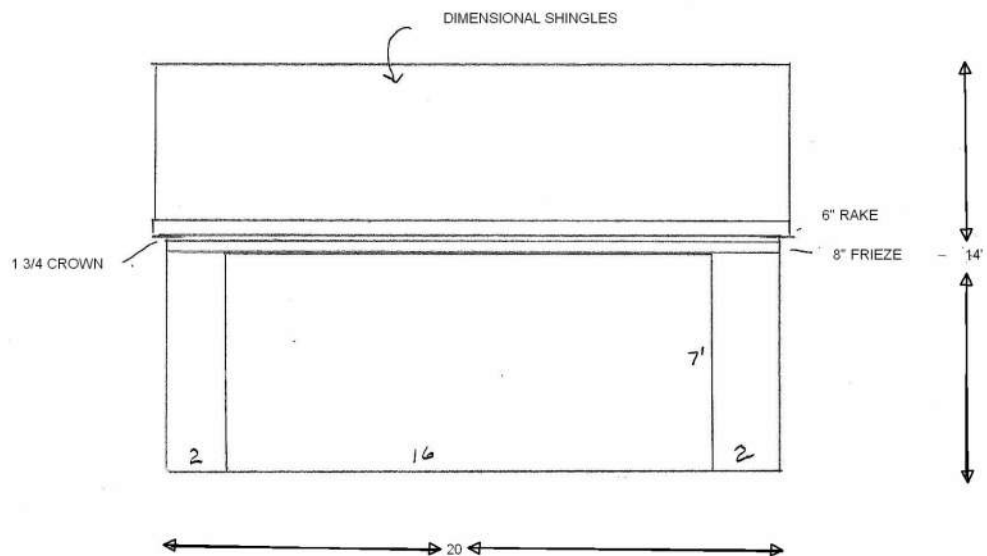


RIGHT ELEVATION





FRONT ELEVATION





HISTORIC DISTRICT COMMISSION PROJECT REVIEW REQUEST

CITY OF DETROIT
PLANNING & DEVELOPMENT DEPARTMENT
2 WOODWARD AVENUE, ROOM 808, DETROIT, MI 48226

DATE: 10/15/2019

PROPERTY INFORMATION

ADDRESS: 2200 Atkinson AKA: _____

HISTORIC DISTRICT: Atkinson

APPLICANT IDENTIFICATION

☒ Property Owner/Homeowner ☐ Contractor ☐ Tenant or Business Occupant ☐ Architect/Engineer/Consultant

NAME: Alec Serfozo COMPANY NAME: _____

ADDRESS: 2200 Atkinson CITY: Detroit STATE: MI ZIP: 48206

PHONE: 440-865-1421 MOBILE: _____ EMAIL: _____

PROJECT REVIEW REQUEST CHECKLIST

Please attach the following documentation to your request:

☒ **Photographs** of ALL sides of existing building or site

☒ **Detailed photographs** of location of proposed work (photographs to show existing condition(s), design, color, and material)

☒ **Description of existing conditions** (including materials and design)

☒ **Description of project** (including an explanation as to why replacement--rather than repair--of existing and/or construction of new is required)

☒ **Detailed scope of work** (formatted as bulleted list)

☒ **Brochure/cut sheets** for proposed replacement material(s) and/or product(s)

NOTE:

Based on the scope of work, additional documentation may be required
See www.detroitmi.gov/hdc for scope-specific requirements

SUBMIT COMPLETED REQUESTS TO: HDC@DETROITMI.GOV

2200 Atkinson Garage Restore/rebuild

- Existing conditions are original and deteriorating, no available information on existing materials.
- The existing garage is likely to collapse any day, need to replace back wall and roof ASAP. We will keep 3 of the brick walls, and replace the back wall that faces neighboring fence. Roof will be lowered away from the existing power lines and redone to match house.
- Scope is as followed:
 - Remove and replace garage roof. Shingles to match house.
 - Remove damaged rear brick wall. Replace with brick red- Dutch lap vinyl siding
 - Remove and replace damaged garage door with 16x7 raised panel overhead door.
 - Replace three (3) wood sash windows with vinyl windows.
 - Replace service door with a solid wood door
 - Replace collar ties and floor between hangers



70 Series & 50 Series
Windows & Doors





Quality you expect from a brand you can trust.

American Craftsman vinyl windows and patio doors offer energy efficiency, low maintenance and affordability along with the confidence and peace of mind that includes a limited lifetime warranty.

No matter if you're replacing existing windows or adding windows in a remodel or new construction project, windows from American Craftsman by Ply Gem can provide better insulation and reduce your energy bill, with a variety of styles and options to choose from designed for both performance and good looks.



70 Series Pro Double Hung Windows



Classic styling for enhanced curb appeal.

The premium quality 70 Series windows and doors feature an enhanced design with wider profiles to emulate the look of traditional wood windows, and a decorative exterior frame for added curb appeal. The premium hardware provides security and dual weatherstripping offers protection against dust, wind and water. Available in many styles with a variety of colors, grille patterns and ENERGY STAR® certified glass options.

Optional for coastal areas, includes impact-resistant glass and structural reinforcements to help protect your home from the harshest coastal conditions.



The Pro Double Hung Replacement Window

The Pro Double Hung replacement window has the same premium quality and features as the other 70 Series windows, however, it has a unique frame with a classic look.

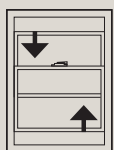


Simplified design for the budget-minded.

50 Series products offer affordability without sacrificing quality. With a simplified design that maximizes light and view for a more contemporary look, these products are low maintenance inside and out and are ENERGY STAR® certified with select glass options. Dual weatherstripping helps seal out dust, wind and water.

A range of styles make it easy to find what's right for you.

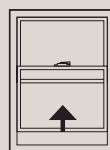
70 Series Double Hung Windows



Double Hung

Two operating sashes move up and down to allow ventilation from both top and bottom, while both sash tilt-in for easy cleaning.

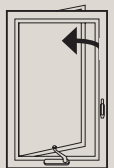
AVAILABLE ON THE 70 SERIES AND 50 SERIES



Single Hung

Bottom sash moves up and down to allow ventilation and tilts in for easy cleaning.

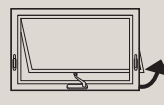
AVAILABLE ON THE 70 SERIES AND 50 SERIES



Casement

Hinged on the side and open outward to the left or right, allowing for full top to bottom venting.

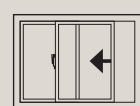
AVAILABLE ON THE 70 SERIES



Awning

Open outward from the bottom for ventilation and protection from rain.

AVAILABLE ON THE 70 SERIES



Gliding

Sash slides horizontally for ventilation.

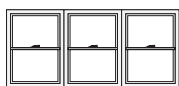
AVAILABLE ON THE 70 SERIES AND 50 SERIES

Enhance your view.

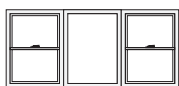
Specialty windows are stationary and do not operate. They are available in a variety of shapes and sizes. For even more dramatic style and a grander view, create window combinations by placing various shapes and sizes together.



Twin Double Hung



Triple Double Hung



Picture Window with Double Hung Flankers



Equal Leg Arch Over Double Hung



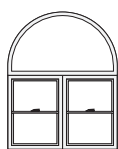
Transom Over Double Hung



Triple Transom Over Triple Double Hung



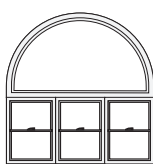
Half Circle Over Double Hung



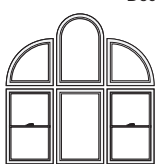
Half Circle Over Twin Double Hung



Quarter Circle Over Double Hung



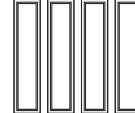
Half Circle Over Triple Double Hung



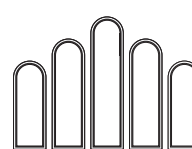
Quarter Circles, Palladian, Double Hungs and Picture Window



Equal Leg Arch Over Triple Double Hung



Picture Windows



Palladian Windows

Glass options for the performance you need.

GLASS TYPE	DESCRIPTION
Low-E	Reflects heat in summer and retains heat during winter. Ideal for all climates.
Low-E^{LS}	Reflects heat in summer and retains heat during winter, while filtering harmful UV rays.
Low-E^{SC}	Adds a subtle tint that blocks out the sun's heat and UV rays. Great for warmer climates.
Low-E^{PS}	Allows the sun's warmth in. Perfect for colder climates
Low-E2+^{PS}	Adds a special coating that helps to reflect the heat that escapes your home. Ideal for cold climates.
StormDefense	Impact resistant glass and structural upgrades that protect from damaging coastal weather. The insulating air space helps to keep homes cool in warm weather.

DID YOU KNOW?

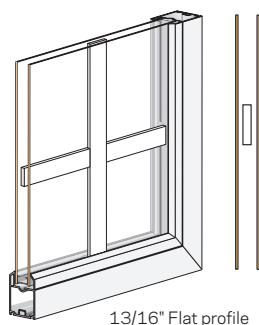
Argon gas can be added to any of the American Craftsman glass options to increase insulation and performance even more.



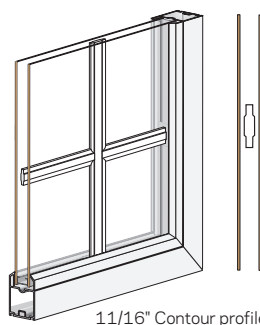
Grille Options

Grilles-between-the-glass

Grilles-between-the-glass add style to your windows and doors and make cleaning easy.



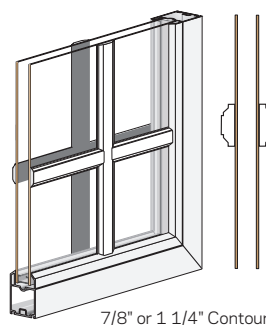
13/16" Flat profile



11/16" Contour profile

Simulated divided light

Grilles are permanently applied to the glass, providing a more authentic look.



7/8" or 1 1/4" Contour profile



70 Series Gliding Patio Door with Built-In Blinds



Gliding Patio Door

Premium quality with an enhanced, classic design. Multi-point lock system with exterior keyed lock gives enhanced security.

Hardware:

Includes exterior keyed lock



Standard



Optional: Satin Nickel



Optional for coastal areas



50 Series Gliding Patio Door with Built-In Blinds



Gliding Patio Door

Designed with flexibility to match your project and budget. Optional keyed lock.

Hardware:



Standard







Optional with exterior keyed lock: Satin Nickel

70 SERIES + 50 SERIES FEATURES:

- Low-maintenance vinyl never needs painting
- Precision ball-bearing rollers
- Steel-reinforced construction adds strength and durability
- Available with built-in blinds

Options that make our windows your own.

WINDOW & DOOR FEATURES	WINDOWS									DOORS	
	70 Series Pro Double Hung	70 Series Double Hung	70 Series Single Hung	70 Series Casement	70 Series Awning	70 Series Gliding	50 Series Double Hung	50 Series Single Hung	50 Series Gliding	70 Series Gliding Patio Door	50 Series Gliding Patio Door
EXTERIOR/INTERIOR COLOR*											
 White	●	●	●	●	●	●	●	●	●	●	●
 Beige	●	●	●	●	●	●	●	●	●	●	●
 Sandstone	●	●	●	●	●	●				●	
 Dark Bronze*	●	●	●	●	●	●				●	●
FRAME TYPE											
Insert <i>(Replacement)</i>	●			●	●	●	●	●	●		
Nailing Flange <i>(New Construction)</i>		●	●	●	●			●	●		●
Nailing Flange with J-Channel <i>(New Construction)</i>		●	●	●	●	●				●	
Masonry Flange <i>(Replacement/New Construction)</i>			●					●			
GRILLES & BLINDS											
Simulated Divided Light	●	●		●	●	●**				●	
Grilles Between the Glass	●	●	●	●	●	●	●	●	●	●	●
Built-in blinds										●	●
STORMDEFENSE™ PROTECTION		●	●	●	●	●***				●	
CUSTOM SIZES	●	●	●	●	●		●	●		●	

* Dark bronze exterior units come with white interiors.

** Simulated divided light only available with replacement frame.

*** StormDefense only available with replacement frame.



**American
Craftsman®**
by **Ply Gem®** **WINDOWS • DOORS**

Visit AmericanCraftsmanWindows.com



Many American Craftsman windows and patio doors have options that make them ENERGY STAR® v. 6.0 certified throughout the U.S.

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The Home Depot is a trademark of Home Depot Product Authority, LLC or its affiliates.
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The Home Depot®



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fire-rated doors and frames
commercial door hardware
architectural wood doors



HOLLOW METAL DOORS & FRAMES



Standard and custom hollow metal products for new and retrofit construction projects in the commercial, industrial and institutional markets. Authorized distributor of most SDI Certified brands including Steelcraft, Ceco, Curries & Mesker.

Authorized WHI Shop, enabling us to modify, re-certify and label fire-rated doors and frames



COMMERCIAL WOOD DOORS



Solid core architectural grade flush wood doors, pre-finished wood doors, plastic laminate doors and mineral core fire doors for a variety of commercial and institutional applications, including office buildings, hotels, hospitals, medical centers, schools, apartment buildings and more. Brands include Graham and Masonite Architectural.

LITE KITS, LOUVERS & GLASS



Huge inventory of vision lite frames, louvers and glazing materials, including clear tempered, fire-rated glass ceramic and safety wire glass. Brands include Air Louvers, SCHOTT and National Guard Products.

UL Certified Shop, enabling us to cut, re-certify and label fire-rated glazing materials



COMMERCIAL DOOR HARDWARE



Authorized distributor of the leading architectural hardware brands, including Allegion Brands (Schlage, Von Duprin, LCN, Falcon, Ives) and ASSA ABLOY Brands. Value engineered options for budget conscious projects.

Authorized Allegion Distributor

FALCON ■ **LCN** ■ **SCHLAGE** ■ **VON DUPRIN**



NATIONWIDE SHIPPING!



MainStreet™

Vinyl Siding

General Description: MainStreet™ siding is appropriate for use in new construction for single family homes, multi-housing projects and light commercial developments. MainStreet is also an ideal product for remodeling.

Styles:

Profile	Finish	Panel Projection	Wall Thickness (Nominal)	Lock Design	Colors	Accessory Pocket
Double 4" Clapboard	Woodgrain	9/16"	.042"	Post-formed	24	½", 5/8" or ¾"
Double 4" Dutchlap	Woodgrain	9/16"	.042"	Post-formed	24	½", 5/8" or ¾"
Double 5" Clapboard	Woodgrain	9/16"	.042"	Post-formed	24	½", 5/8" or ¾"
Double 5" Dutchlap	Woodgrain	9/16"	.042"	Post-formed	24	½", 5/8" or ¾"
Triple 3" Clapboard	Smooth Brushed	9/16"	.042"	Post-formed	11	½", 5/8" or ¾"
Single 6-1/2" Beaded	Smooth Brushed	9/16"	.042"	Post-formed	13	½", 5/8" or ¾"
Single 8" Clapboard	Woodgrain	5/8"	.042"	Post-formed	1	¾"

Colors: MainStreet siding profiles are available in a wide selection of colors. All colors are Spectrophotometer controlled and utilize exclusive Permacolor™ color science.

Autumn Red	Colonial White	Forest	Light Maple	Sandstone Beige	Snow
Autumn Yellow	Cypress	Granite Gray	Natural Clay	Savannah Wicker	Spruce
Buckskin	Desert Tan	Hearthstone	Oxford Blue	Seagrass	Sterling Gray
Charcoal Gray	Flagstone	Heritage Cream	Sandpiper	Silver Ash	Suede

*Color availability varies by profiles - check Product Catalog for detail.

STUDfinder™: The patented STUDfinder Installation System combines precisely engineered nail slot locations with graphics. Nail slots are positioned 16" on center to allow for alignment with studs. STUDfinder graphics centered at each slot provide a quick and easy guide to help locate studs.

RigidForm™: MainStreet RigidForm 200 double nail hem technology stiffens siding for a straighter-on-the-wall appearance and provides wind load performance.

Lock: MainStreet's exclusive DuraLock™ is a substantially larger lock than is found on competing products, with a rigid teardrop shape and engineered angular locking leg for a positive, snap fit application and exceptional wind resistance.

Accessories: CertainTeed manufactures a wide range of siding accessories which are compatible with MainStreet siding styles and colors. Accessory products include installation components, soffit, window and door trim, corner lineals, corner systems and decorative moldings.

Composition: MainStreet siding products are produced using CertaVin™ custom-formulated PVC resin. This resin is produced exclusively by CertainTeed, allowing CertainTeed to maintain the high quality of its siding products.

Technical Data: MainStreet siding is in compliance with ASTM specification for Rigid Polyvinyl Chloride (PVC) Siding D 3679, and the requirements of section R703.11 of the International Residential Code, and section 1405.14 of the International Building Code. MainStreet siding meets or exceeds the properties noted in Table 1.

Table 1

ASTM E 84	Meets Class A flame spread requirements as tested according to ASTM E84.
ASTM D 1929	Self-ignition temperature 813°F
ASTM D 635	Material is self-extinguishing with no measurable extent of burn when tested in accordance with this specification.
NFPA 268	Radiant Heat Test - Ignition Resistance of Exterior Walls - Conclusion that CertainTeed met the conditions for allowable use as specified in section 1406 of the International Building Code.

Important Fire Safety Information: When rigid vinyl siding is exposed to significant heat or flame, the vinyl will soften, sag, melt or burn, and may thereby expose material underneath. Care must be exercised when selecting underlayment materials because many underlayment materials are made from organic materials that are combustible. You should ascertain the fire properties of underlayment materials prior to installation. All materials should be installed in accordance with local, state and federal Building Code and fire regulations.

Wind Load Testing: CertainTeed MainStreet double 4" siding has been tested per ASTM D 5206 standard test method for resistance to negative wind load pressures exceeding 55 psf, which equates to more than 200 mph (V_{ASD}) and 260mph (V_{ULT}), when installed with nails positioned 16" on center. Check with your local building inspector for wind load requirements in your area on the type of structure you are building.

Documents: CertainTeed Vinyl Siding meets the requirements of one or more of the following specifications.

Texas Department of Insurance Product Evaluation EC-11

Conforms to ASTM Specification D3679

Florida BCIS Approval FL1573

ICC-ES Evaluation Report ESR-1066

For specific product evaluation/approval information, call 800-233-8990.

Installation: Prior to commencing work, verify governing dimensions of building, examine, clean and repair, if necessary, any adjoining work on which the siding is in any way dependent for its proper installation. Sheathing materials must have an acceptable working surface. Siding, soffit and accessories shall be installed in accordance with the latest editions of CertainTeed installation manuals on siding and soffit. Installation manuals are available from CertainTeed and its distributors.

Warranty: CertainTeed supports MainStreet siding products with a Lifetime Limited Warranty including PermaColor Lifetime Fade Protection to the original homeowner. The warranty is transferable if the home is sold.

Technical Services: CertainTeed maintains an Architectural Services staff to assist building professionals with questions regarding CertainTeed siding products. Call 800-233-8990 for samples and answers to technical or installation questions.

Sample Short Form Specification: Siding as shown on drawings or specified herein shall be MainStreet™ Vinyl Siding as manufactured by CertainTeed Corporation, Valley Forge, PA. The siding shall have a .042" nominal thickness. Installation shall be in accordance with manufacturer's instructions.

Three-part Format Specifications: Long form specifications in three-part format are available from CertainTeed by calling our Architectural Services Staff at 800-233-8990. These specifications are also available on our website at certainteed.com.



CertainTeed Corporation
P.O. Box 860
Valley Forge, PA 19482
certainteed.com
© 01/15

Timberline® Natural Shadow® Brochure

(RESTL100NS)

Updated: 7/16



*Quality You Can Trust...From
North America's Largest Roofing Manufacturer!™*



Quality You Can
Trust...From
North America's
Largest Roofing
Manufacturer!™

TIMBERLINE® *Natural Shadow®*

LIFETIME SHINGLES

Protect your home with Timberline® Shingles — North America's #1-selling shingles!

gaf.com



Color Shown:
**Weathered
Wood**

"Value & Performance In A
Natural Wood-Shake Look"

There's Nothing Quite Like A Genuine Timberline® Roof!

Professional installers have long preferred the rugged, dependable performance that only a Timberline® roof can offer. That's why Timberline® Shingles with **Advanced Protection® Shingle Technology** are the #1-selling shingles in all of North America.

But performance is only half the story. Since your roof can represent up to **40%** of your home's "curb appeal," you can improve its resale value with Timberline® Natural Shadow® Shingles from GAF. They'll give you the upscale, architectural look you want, at a price you can afford!



GAF Shingles are the
#1 Choice
of Professional Contractors
in the United States



Note: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.

Timberline® Shingles—
North America's
**#1-Selling
Shingles!**



Color Shown:
Slate

Benefits

- **Great Value...**
Architecturally stylish but practically priced—with a Lifetime Ltd. warranty.*
- **Attractive Appearance...**
Features a classic shadow effect. Lends any home a subtle, even-toned look with the warmth of wood.
- **Highest Roofing Fire Rating...**
UL Class A, Listed to ANSI/UL 790
- **High Performance...**
Designed with Advanced Protection® Shingle Technology, which reduces the use of natural resources while providing excellent protection for your home (visit gaf.com/APS/ to learn more).
- **Stays In Place...** Dura Grip™
Adhesive seals each shingle tightly and reduces the risk of shingle blow-off. Shingles warranted to withstand winds up to 130 mph!†
- **Peace Of Mind...** Lifetime Ltd. transferable warranty with Smart Choice® Protection (non-prorated material and installation labor coverage) for the first ten years.*
- **Perfect Finishing Touch...**
Use Timbertex® Premium Ridge Cap Shingles or Ridglass® Premium Ridge Cap Shingles.**



* See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Ltd. Warranty and means as long as the original individual owner(s) of a single-family detached residence [or the second owner(s) in certain circumstances] owns the property where the shingles are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable.

** These products are not available in all areas. See www.gaf.com/ridgecapavailability for details.

† This wind speed coverage requires special installation; see GAF Shingle & Accessory Ltd. Warranty for details.

Note: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.



Color Shown:
Pewter Gray
(not available in all areas)



Color Shown:
Barkwood
(not available in all areas)

Install Peace Of Mind... Install To Protect!

When you install GAF Timberline® Natural Shadow® Shingles with **Advanced Protection® Shingle Technology**, you're getting the very best combination of weight and performance that modern manufacturing technology can deliver. In fact, you won't find a shingle that surpasses Timberline® on:

- ✓ Toughness
- ✓ Wind uplift resistance
- ✓ Flexibility
- ✓ Fire resistance

That's why every Timberline® Shingle comes with GAF's transferable Lifetime Ltd. Warranty*—for your peace of mind!—plus the backing of the Good Housekeeping Seal.**



*See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Ltd. Warranty and means as long as the original individual owner(s) of a single-family detached residence (or the second owner(s) in certain circumstances) owns the property where the shingles are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable.

**GAF Shingles have earned the prestigious Good Housekeeping Seal, which means that Good Housekeeping stands behind these products. (Refer to Good Housekeeping Magazine for its consumer protection policy. Applicable in U.S. only.)

Note: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.



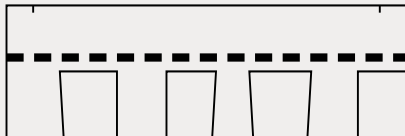
Timberline® Shingles Are Also The Favorite Of Professional Contractors...



- **More Referrals...** People will know that you're installing America's #1-selling laminated shingles!
- **Less Chance Of Call-Backs...** Durable, wind-resistant shingles carry 130 mph ltd. wind coverage.†

†This wind speed coverage requires special installation; see GAF Shingle & Accessory Ltd. Warranty for details.

SPECIFICATIONS



13¼" x 39⅜" Metric

- Fiberglass asphalt shingle
- Lifetime ltd. transferable warranty¹
- Smart Choice® Protection for the first 10 years¹
- 130 mph ltd. wind coverage²
- StainGuard® Protection³
- UL Listed to ANSI/UL 790 Class A
- ASTM D7158, Class H
- ASTM D3161 Type 1, Class F
- ASTM D3018 Type 1
- ASTM D3462⁴
- Classified in accordance with ICC-ES AC438
- Miami-Dade County Product Control approved⁵
- Florida Building Code approved
- Texas Department of Insurance approved⁵
- ICC approved⁵
- ENERGY STAR® certified (U.S. only)⁶
- Approx. 64 Pieces/Square
- Approx. 3 Bundles/Square
- Approx. 256 Nails/Square
- Exposure: 5 ⅜"



¹ See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Ltd. Warranty and means as long as the original individual owner(s) of a single-family detached residence [or the second owner(s) in certain circumstances] owns the property where the shingles are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable.

² This wind speed coverage requires special installation. See GAF Shingle & Accessory Ltd. Warranty for details.

³ StainGuard® protection applies only to shingles with StainGuard® labeled packaging. See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions.

⁴ Periodically tested by independent and internal labs to ensure compliance with ASTM D3462 at time of manufacture.

⁵ Applies to some plants.

⁶ Timberline® Natural Shadow® Arctic White is ENERGY STAR® certified (U.S. only) and rated by the Cool Roof Rating Council. See gaf.com for availability and details.

Note: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.

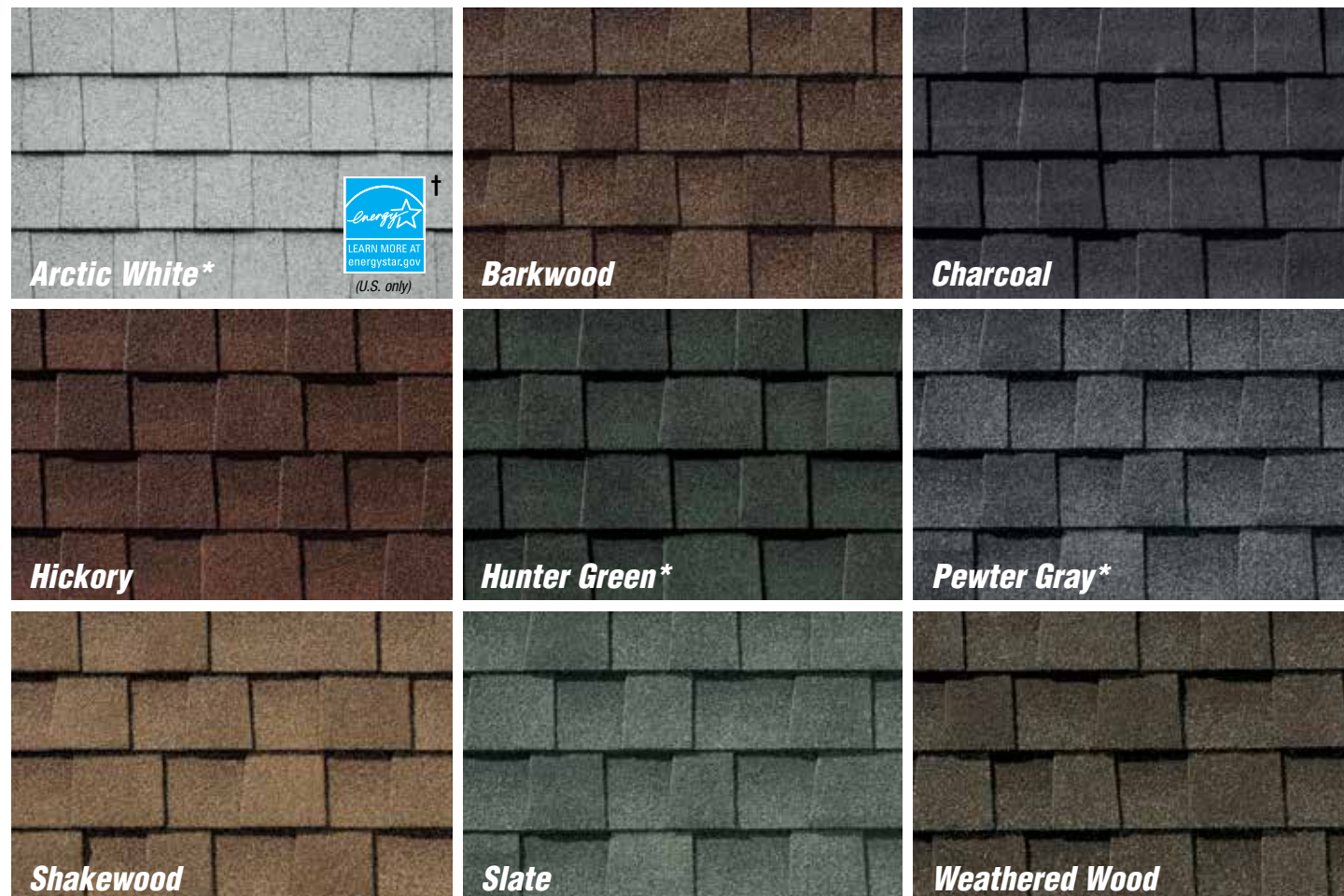


Color Shown:
Hickory



Color Shown:
Hunter Green
(not available in all areas)

Color Availability Chart*



***Notes:**

- Arctic White only available in the Shafter area.
- Hunter Green only available in the Minneapolis and Michigan City areas.
- Pewter Gray only available in the Baltimore/Myerstown and Michigan City areas.
- Timberline® Natural Shadow® Shingles are not available in the Tampa area.

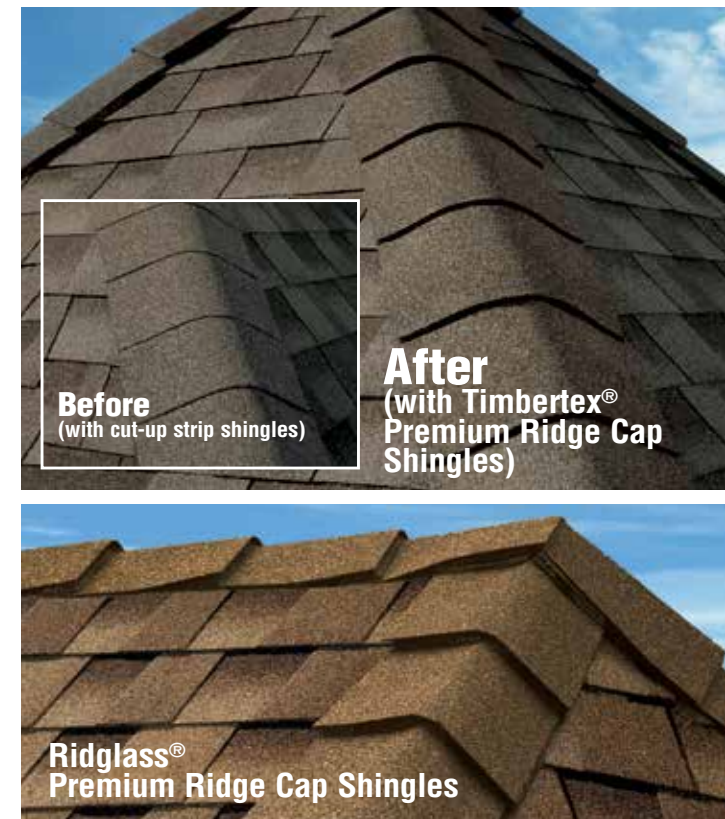
We can help you choose the right shingle for your roof!

Try GAF's Virtual Home Remodeler at gaf.com. Visualize GAF Shingles on a house like yours—or upload and decorate your own house. Try different siding, trim, and brick colors. It's fun!



†Timberline® Natural Shadow® Arctic White is ENERGY STAR® certified in the U.S. only and rated by the Cool Roof Rating Council (CRRC). See gaf.com for availability and details. When installed properly, this product will help to reduce energy costs. Actual savings will vary based on geographic location and individual building characteristics. For more information, contact GAF Technical Services at 1-800-ROOF-411, visit gaf.com, or call 1-888-STAR-YES.

Note: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.



Important Warning:

*Timbertex® and Ridglass® Premium Ridge Cap Shingles are designed to complement the color of your Timberline® Shingles. But some contractors cut costs by using the tabs from a 20-year or 25-year 3-tab shingle as your ridge cap. To ensure the closest color consistency for your roof, ask your contractor to use genuine Timbertex® or Ridglass® Premium Ridge Cap Shingles.**

- **Complements Timberline® Colors...** Designed to complement the color of your Timberline® Shingles
- **Strong Protection For Hips & Ridges...** Multi-layer design protects the most vulnerable areas of your roof
- **Perfect Finishing Touch...** Extra-thick designs with massive 8" exposure are 2–3 times thicker (versus typical strip shingles) for a distinctive, upscale look
- **Stays In Place...** Dura Grip™ Self-seal Adhesive seals each piece tightly and reduces the risk of shingle blow-off
- **Peace Of Mind...** Up to a Lifetime Ltd. warranty when installed on Lifetime Shingle roofs†

†See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Ltd. Warranty and means as long as the original individual owner(s) of a single-family detached residence (or the second owner(s) in certain circumstances) owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime Ltd. warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.



**These products are not available in all areas. See www.gaf.com/ridgecapavailability for details.*

Looking For A
Designer Color Blend
For Your Roof?
Consider
Timberline®
American Harvest®
Shingles...



Note: This product is not available in all areas. See gaf.com for availability and details.



Quality You Can Trust... From North America's Largest Roofing Manufacturer!

gaf.com

More Than Just Coverage On Your Shingles! Get **Automatic Lifetime Protection** On Your Entire GAF Roofing System!*

When you install any GAF Lifetime Shingle and at least 3 qualifying GAF accessories, you'll automatically get:

- A Lifetime Ltd. warranty on your shingles and all qualifying GAF accessories!*
- Non-prorated coverage for the first 10 years!*



LIFETIME SHINGLES

GAF offers you many great Lifetime Shingle choices, including **Timberline®** Shingles with Advanced Protection® Shingle Technology. They're the #1-selling shingles in North America!

Advanced Protection® Shingle Technology provides excellent protection for your home while reducing the use of precious natural resources. That's better for your home—and better for the environment!

To learn more about why Advanced Protection® Shingles are your best choice, visit gaf.com/APS/.



†In the North, most building codes require the use of Leak Barrier at the eaves.



*See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Ltd. Warranty and means as long as the original individual owner(s) of a single-family detached residence (or the second owner(s) in certain circumstances) owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime Ltd. warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.



Cobra® Attic Ventilation

Helps remove excess heat and moisture from your attic to promote energy efficiency in your home and help extend the life of your roof.



Roof Deck Protection

Provides an exceptionally strong layer of protection against wind-driven rain; some even allow moisture to escape from your attic. Also, lies flatter for a better-looking roof.



Leak Barrier

Provides exceptional protection against leaks caused by roof settling and extreme weather. Ideal upgrade at all vulnerable areas (including at the eaves in the North!).



Starter Strip Shingles

Saves time, eliminates waste, and reduces the risk of blow-off...and may even help qualify for upgraded wind warranty coverage (see GAF Shingle & Accessory Ltd. Warranty for details).



Ridge Cap Shingles

Enhances the beauty of your home while guarding against leaks at the hips and ridges.



The GAF Lifetime Roofing System has earned the prestigious Good Housekeeping Seal, which means that Good Housekeeping stands behind the products in this system. (Refer to Good Housekeeping Magazine for its consumer protection policy. Applicable in U.S. only.)

SALES OFFICES:

NORTHEAST
717-866-8392

CENTRAL
630-296-1980

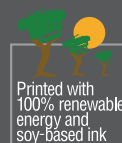
SOUTHEAST
813-829-8880

SOUTHWEST
972-851-0500

WEST
800-445-9330

CANADA
855-492-8085

WORLD HQ
973-628-3000



INSTALLATION & MAINTENANCE

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

Installed By: _____

Clopay® BUILDING PRODUCTS
A Griffon Company



CONSUMER HOTLINE • 1-800-225-6729

Hours of Operation (Eastern Time): Mon. – Fri., 8:30 AM - 7 PM; Sat. 8:30 AM - 5 PM.

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, springs/spring components or windows to repair or replace defective sections, hardware, springs/spring components or windows. All labor costs associated with the removal and reinstallation of any repaired section/section components, hardware or spring/spring components and the installation of replacement sections/section components, hardware, spring/spring components or windows will be your responsibility. We reserve the right to inspect and/or verify any claimed defect.

The applicable limited warranty periods are as follows:

Model #	Paint System	Windows	Sections/Delamination	Hardware/ Springs
48, 48B, 84A, 94, 4800, 4801, 4803, HDB4, T40F, T40L, TM40S, T41F, T41L, T41S, T42F, T42L, T42S	Limited Lifetime	10 yrs.	5 yrs.	3 yrs.
52, 52S, 54, 54S, 55, 55HB, 55S, 76V, 183, 186, 187, 190, 1000, 1001, 1100, 1500, 5200, 5201, 5203, 5500, 5501, 5503, HDS, HDSL, HDSF, T51S, T51F, T51L, T52L, T52S	25 yrs.	10 yrs.	5 yrs.	3 yrs.
42, 42B, 46, 46B, 73, 75, 75L, 76, 4200, 4201, 4203, HDB, HDBF, HDBL, T50L, T50S, TM50S	15 yrs.	10 yrs.	5 yrs.	3 yrs.

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.

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 or rust 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 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.



Clipay® Building Products, Inc.
A Griffon Company, Inc. 2009

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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 which 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", & 3/8" drill bits, and 7/16" socket bit
- Step ladder
- Saw horses (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 11/2" 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.
- 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 the pull down rope;
 - c) make sure the door remains unlocked;
 - d) do not allow children to play with the controls.



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 at right. (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.

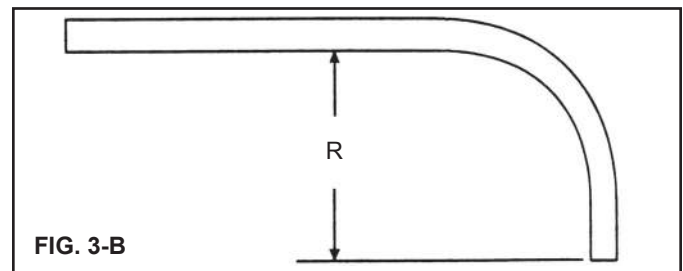
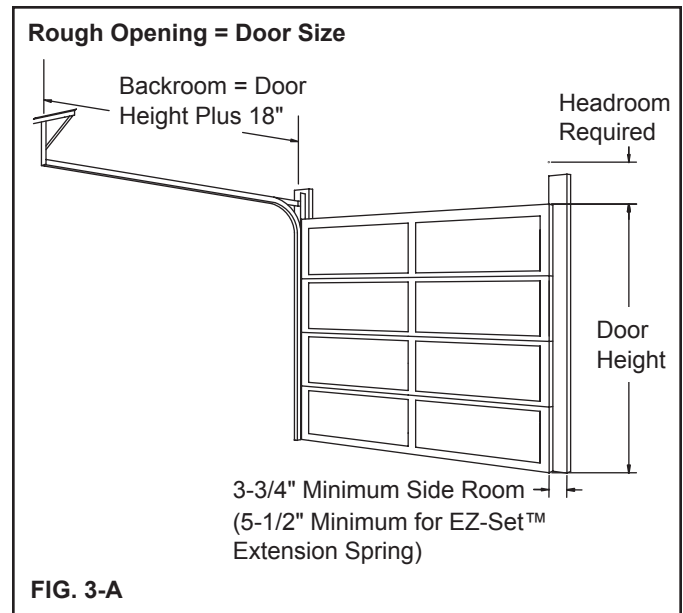


Table 3-A: Standard Headroom Requirement Chart

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 installed. **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 to see 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)

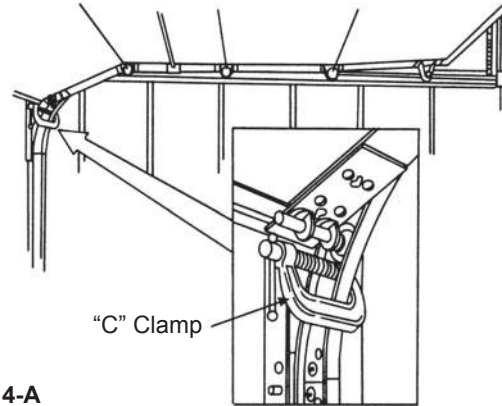


FIG. 4-A

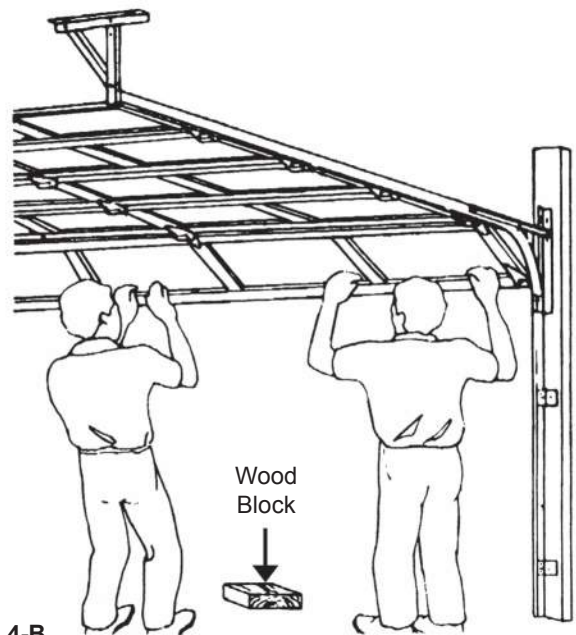


FIG. 4-B

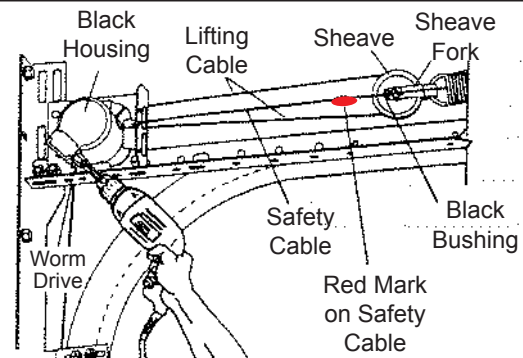


FIG. 4-C

STEP 5 - Removing Door Sections & 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 which 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.

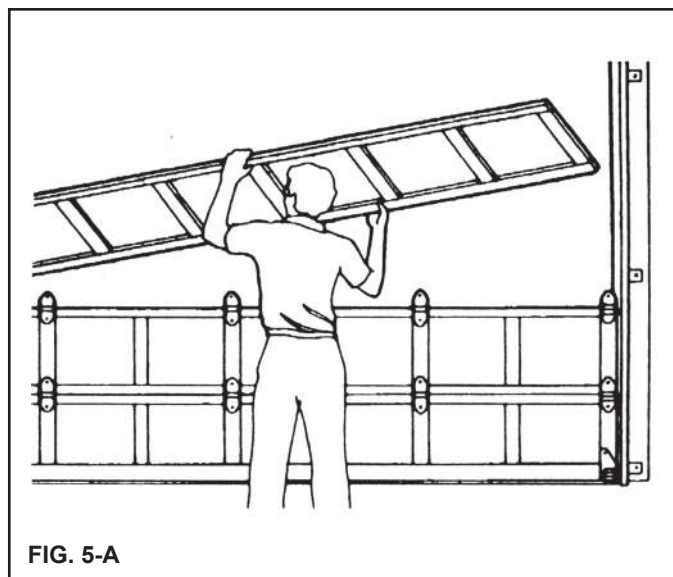


FIG. 5-A

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 weather seal is offered as an option.

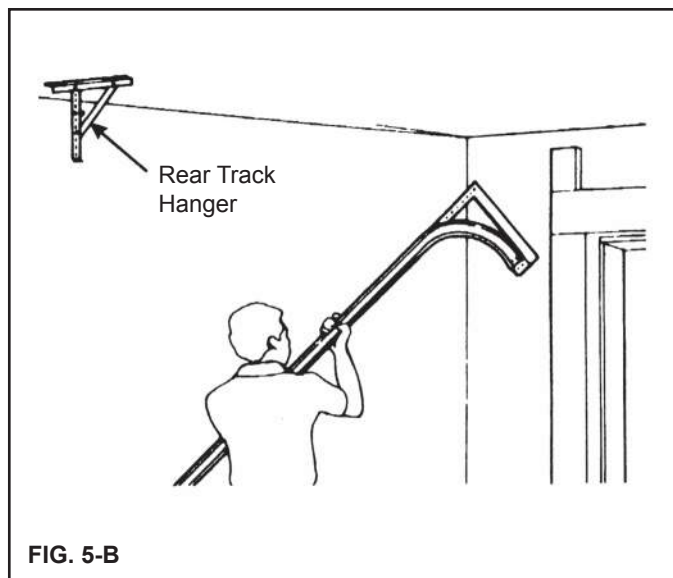


FIG. 5-B

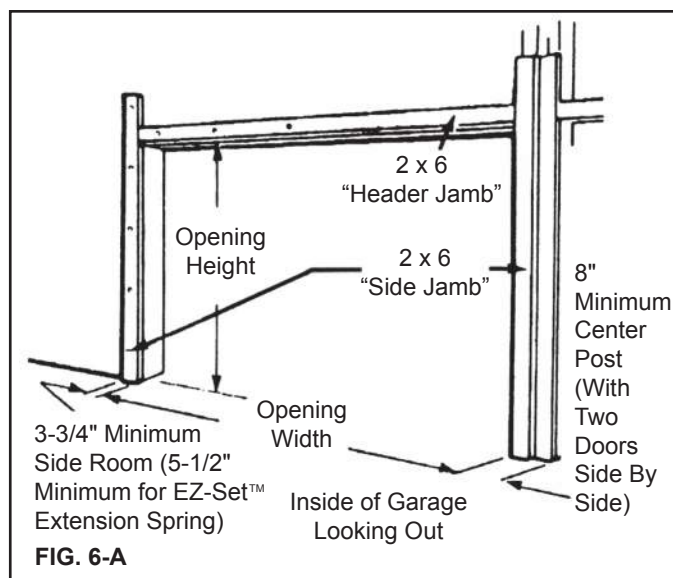


FIG. 6-A

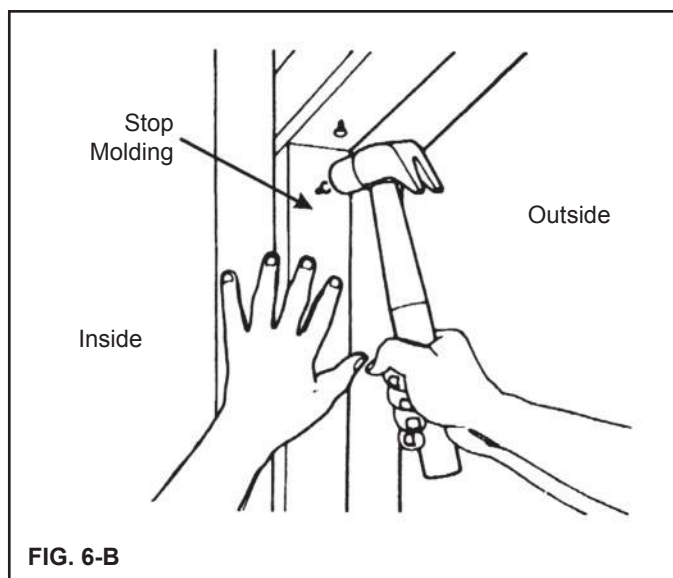
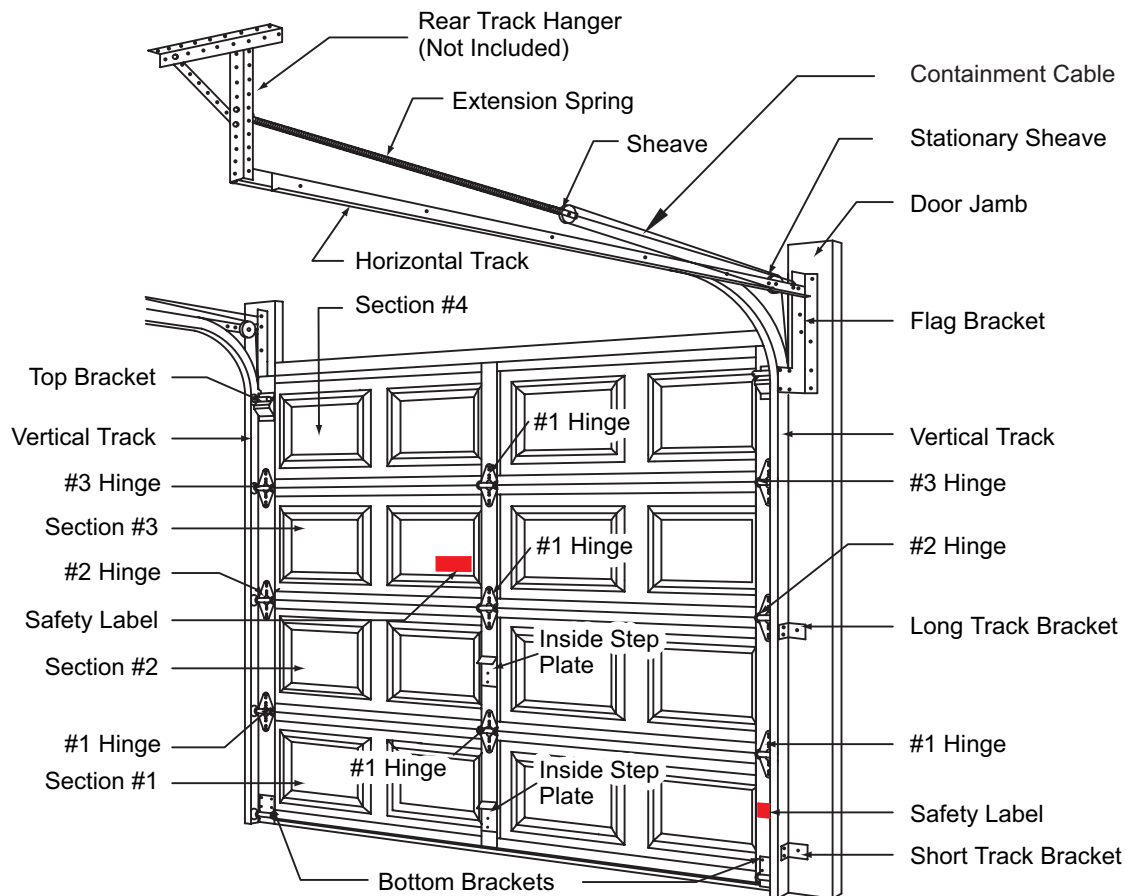
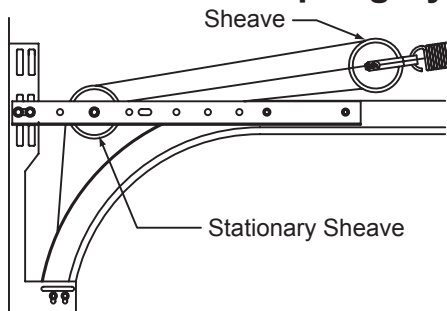


FIG. 6-B

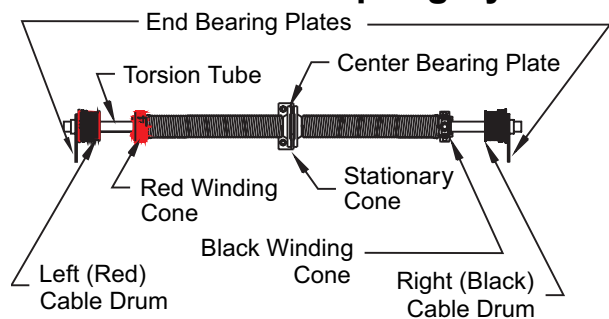
Typical Garage Door Installation Illustration Extension Spring System Shown on Complete Door



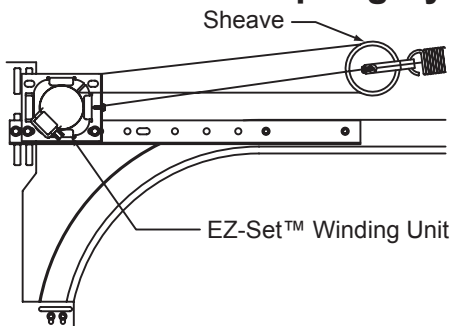
Standard Extension Spring System



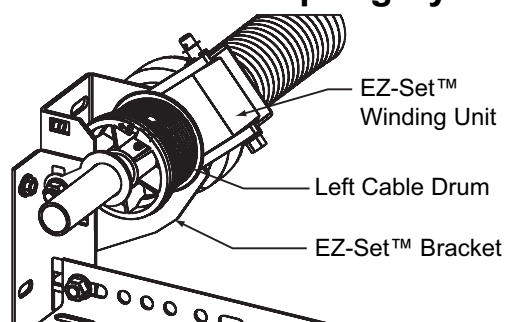
Standard Torsion Spring System



EZ-Set™ Extension Spring System



EZ-Set™ Torsion Spring System

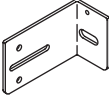
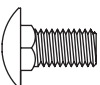


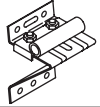



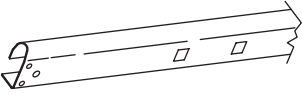

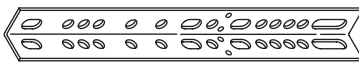


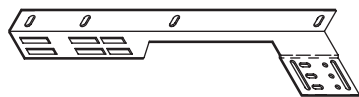



NOTE: The above illustration represents a composite of many of the features found on a variety of garage doors. While not representative of any one door, it provides a handy reference for the location of specific components


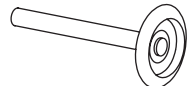
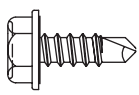

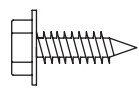

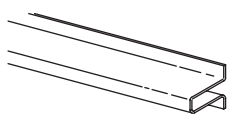
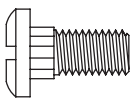

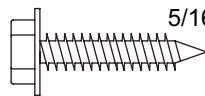
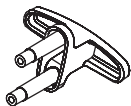
Hardware Components

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) LH + (1) RH		Vertical Track
	#3 Hinge		Horizontal Angle		Cable Assembly
	#4 Hinge (5 Section Doors Only)		Flag Bracket (1) LH + (1) RH		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.)

Description	Door Size:	Qty.	Description:	Door Size:	Qty.
 1/4" Flange Nut	Single Car Doors 8' - 9'W x 6'6" - 7'0"H	16	 Rollers	4 Section Doors	10
	Double Car Doors 16'W x 6'6" - 7'0"H	22		5 Section Doors	12
	Single Car Doors 8' - 9'W x 6'6" - 7'0"H	0	 #1 Hinge	Single Car Doors 8' - 9'W x 6'6" - 7'0"H	5
	Double Car Doors 16'W x 6'6" - 7'0"H	10		Double Car Doors 16'W x 6'6" - 7'0"H	11
	Single Car Doors 8' - 9'W x 6'6" - 7'0"H	56	 Inside Step Plate	All Doors	1 or 2
	Double Car Doors 16'W x 6'6" - 7'0"H	90			
 Struts*	Single Car Doors 8' - 9'W x 6'6" - 7'0"H	0	 1/4" x 5/8" Track Bolt	Single Car Doors 8' - 9'W x 6'6" - 7'0"H	16
	Double Car Doors 16'W x 6'6" - 7'0"H	1		Double Car Doors 16'W x 6'6" - 7'0"H	22
 Pull Rope	All Doors	1	 5/16" x 1-5/8" Lag Bolt	4 Section Doors	10
				5 Section Doors	12
 Lift Handle	All Doors	1 or 2	Keyed Lock Kit (If included, 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 saw horses with carpet or cloth so as not to scratch section. (FIG. 7-A) Be sure to cover saw horses 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: If Table 7-A below shows a need for a reinforcing strut on the bottom section, it should be attached just above bottom brackets. Use 1/4" x 3/4" self tapping screws to attach strut as shown in the illustration. When pre-drilled holes in strut do not line up vertically with stiles, you will be required to drill (2) 3/16" pilot holes through the strut and the stile at each end stile and each center stile, or use a drill or impact wrench with a 7/16" socket to drive self-tapping screws through strut and stile. (FIG. 7-E)

Table 7-A - Sections Requiring Struts

Door Width	Bottom Section	3rd Section	Top Section
15 & 16 ft.	-	-	✓
17 & 18 ft.	✓	✓	✓
Over 18 ft. 2 in. – One strut per section			

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.

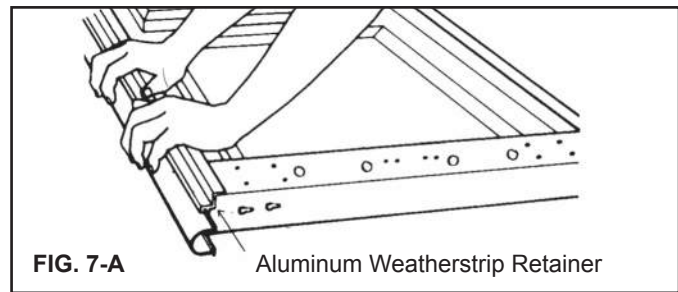


FIG. 7-A

Aluminum Weatherstrip Retainer

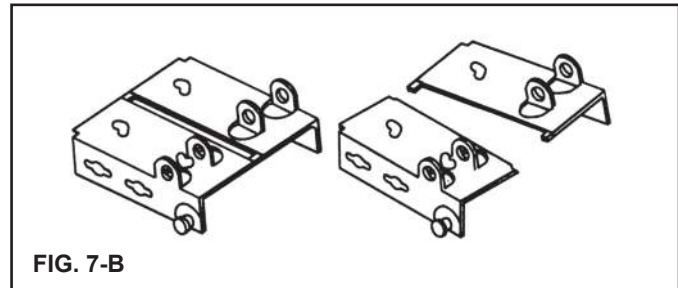


FIG. 7-B

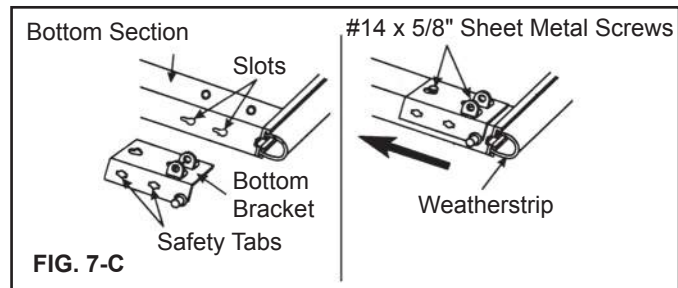


FIG. 7-C

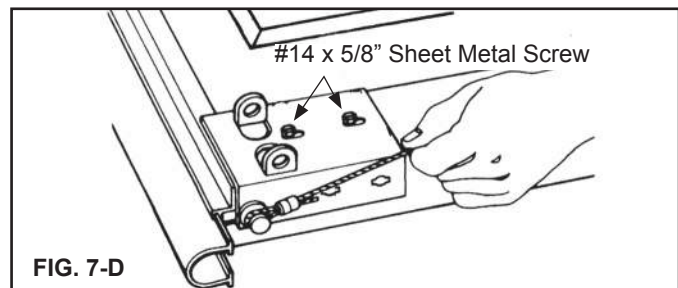


FIG. 7-D

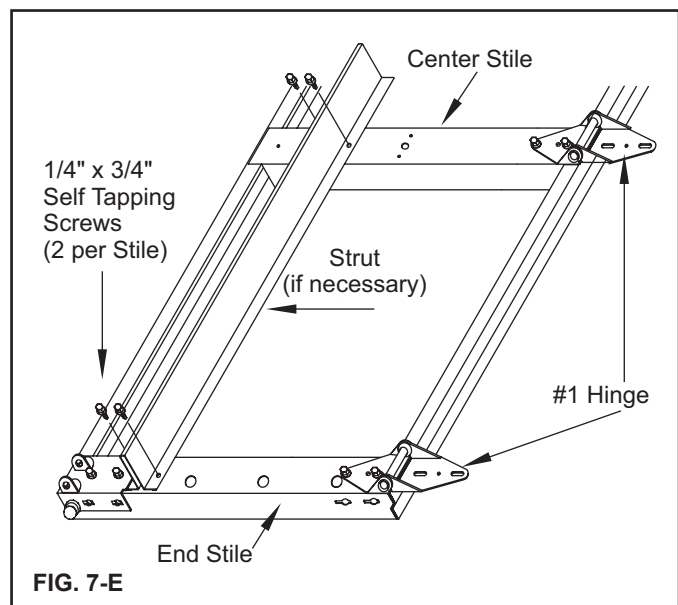


FIG. 7-E

STEP 8 - Lift Handle Attachment

Bottom Section

From the front of the door section, drill (2) 1/2" holes through the section according to the Bottom Section Hole Pattern (FIG. 8-B). A T-Square should be used to ensure that they are vertically in line. If your door has an outside keyed lock, the hole pattern should be drilled on the bottom section directly below the lock. If your door does not have an outside keyed lock, the hole pattern should be drilled directly below the hinge closest to the horizontal center of the door. Install the lift handle & inside step plate assembly using (2) #14 x 5/8" sheet metal screws (Fig. 8-A).

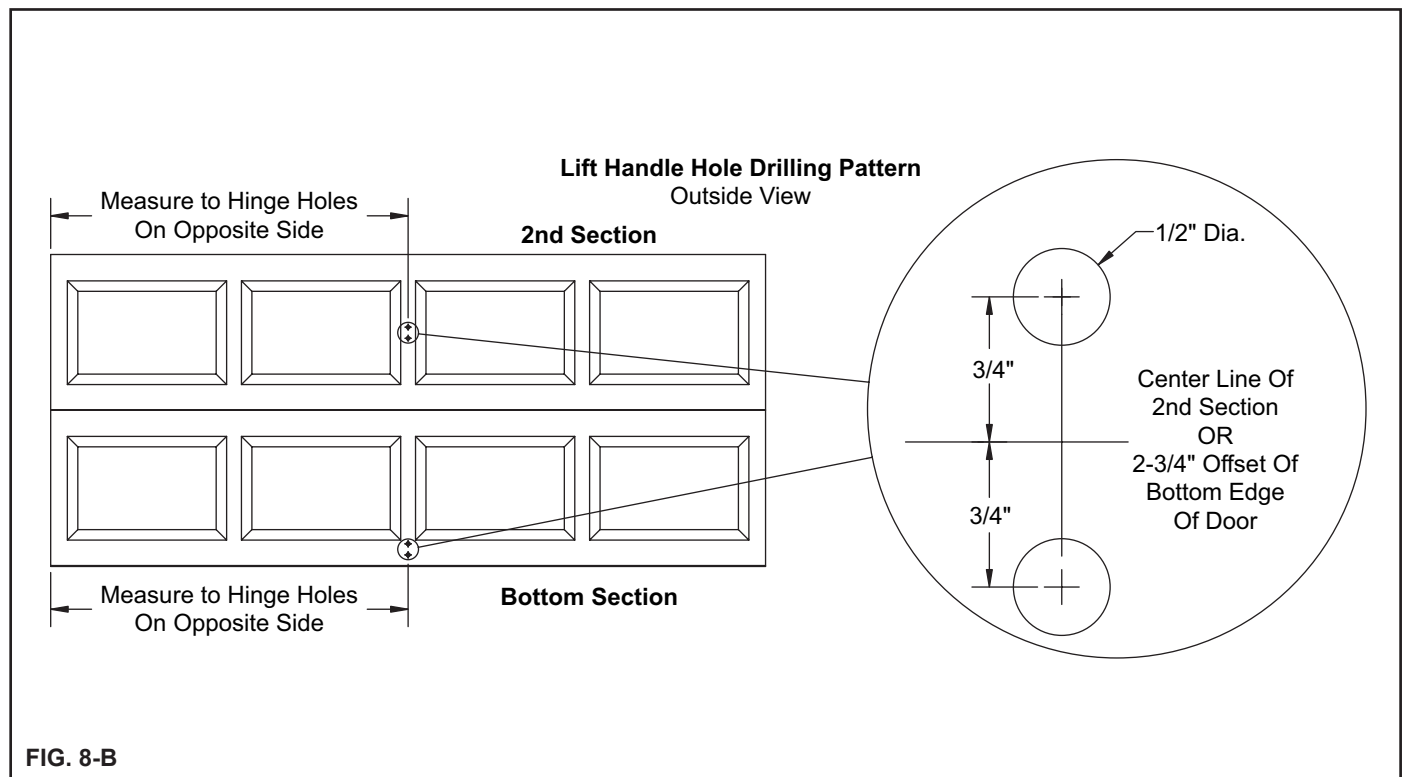
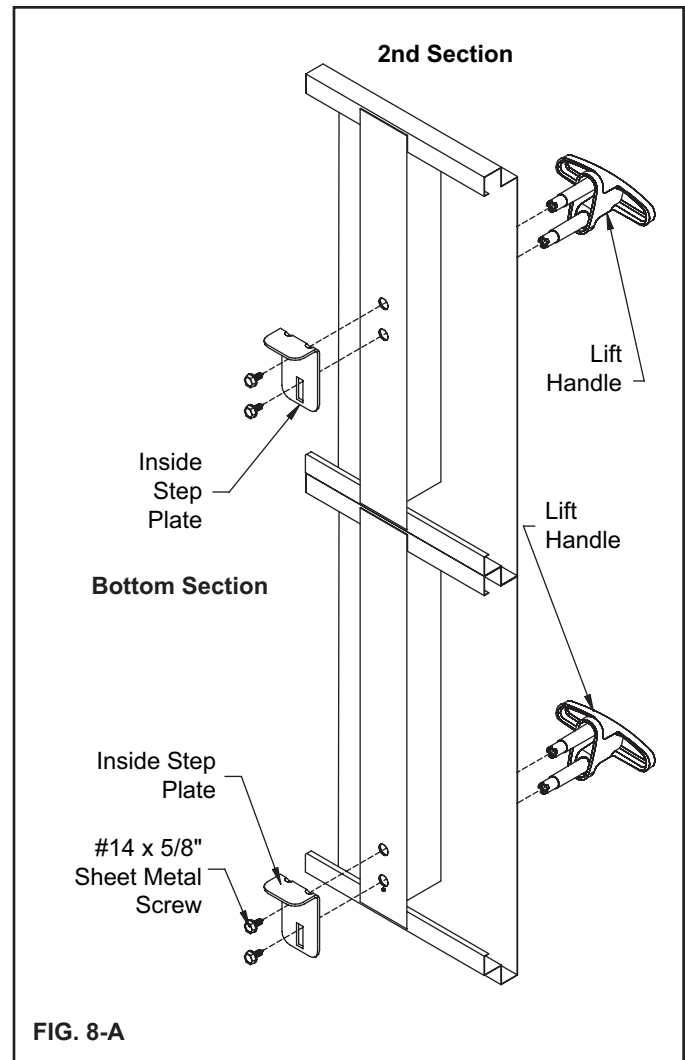
IMPORTANT: Use a wrench or a socket to drive screws. Do not over tighten. Do not use an electric drill or driver.

2nd Section (to be installed at the completion of Step 9-4. Not Required on Doors with Outside Keyed Lock)

From the front of the door section, drill (2) 1/2" holes through the section according to the 2nd Section Hole Pattern (FIG. 8-B). A T-Square should be used to ensure that they are vertically in line. The hole pattern should be drilled directly above the hinge closest to the horizontal center of the door. Install the lift handle / inside step plate assembly using (2) #14 x 5/8" sheet metal screws (Fig. 8-A).

Painting Lift Handles

Plastic Lift Handles can be painted using a quality spray on or brushed on enamel paint.



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 the Table 9-A 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-A - Section Order for Various Door Heights

Door Height	1st (Bottom) Section	2nd (Lock) Section	3rd Section*	4th Section	5th Section
6'0"	18"	18"	18"	18"	-
6'3"	18"	18"	18"	21"	-
6'6"	21"	18"	18"	21"	-
6'9"	21"	21"	18"	21"	-
7'0"	21"	21"	21"	21"	-
7'6"	18"	18"	18"	18"	18"
7'9"	18"	18"	18"	18"	21"
8'0"	21"	18"	18"	18"	21"

* Section with general safety label.

Step 9-4: Place the next section face down on the saw horses. 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 each center stile location 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.

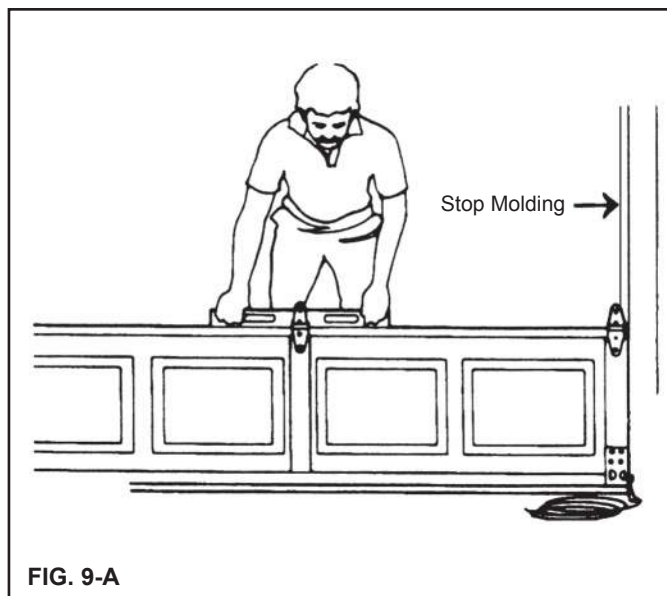


FIG. 9-A

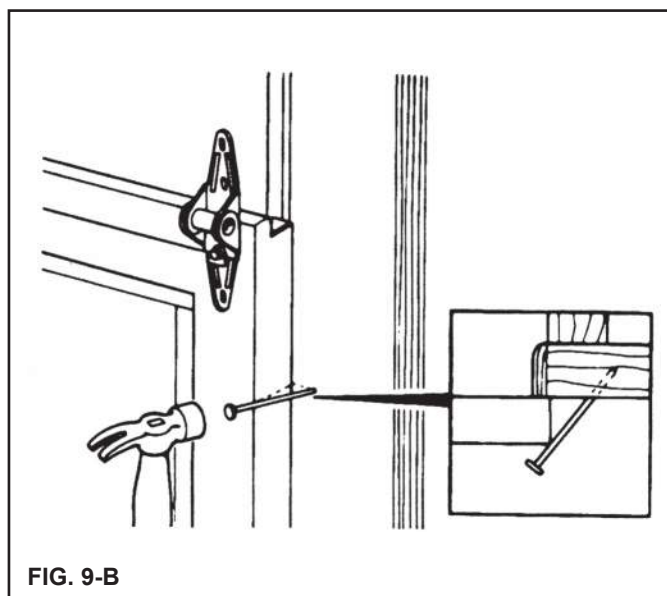


FIG. 9-B

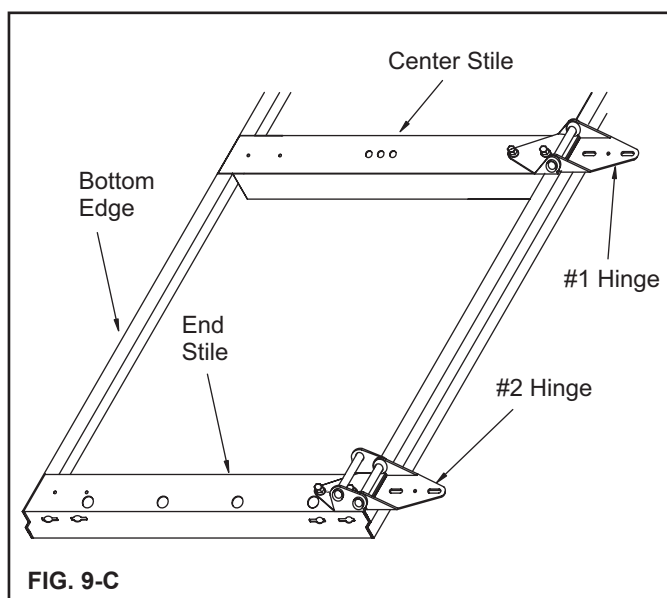


FIG. 9-C

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 saw horses. Attach #3 hinges to the ends at the top edge and #1 hinges to all other stiles 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-A on bottom of page 10), use 1/4" x 3/4" self tapping screws to attach strut as shown in the illustration. When pre-drilled holes in strut do not line up vertically with stiles, you will be required to drill (2) 3/16" pilot holes through the strut and the stile at each end stile and each center stile, or use a drill or impact wrench with a 7/16" socket to drive self-tapping screws through strut and stile. (FIG. 9-E)

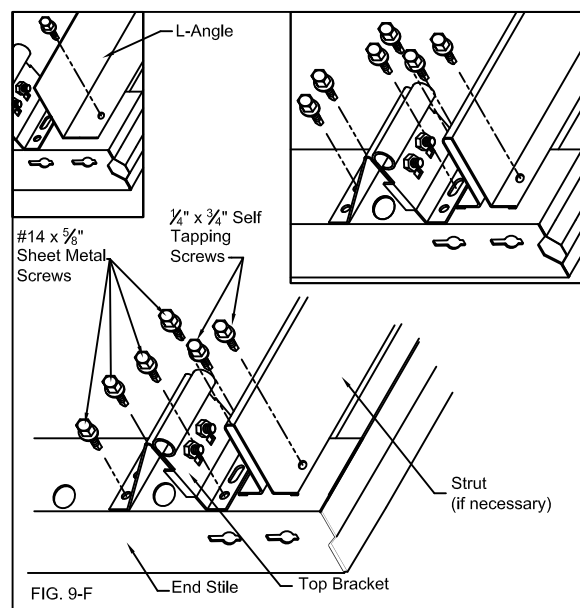
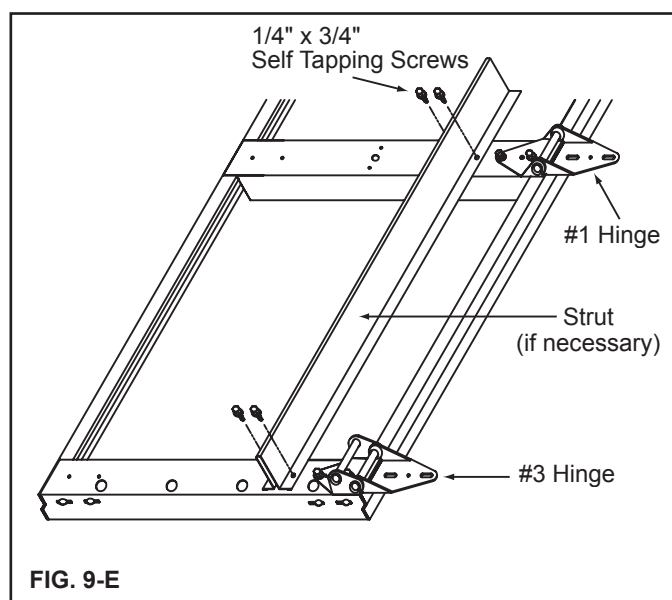
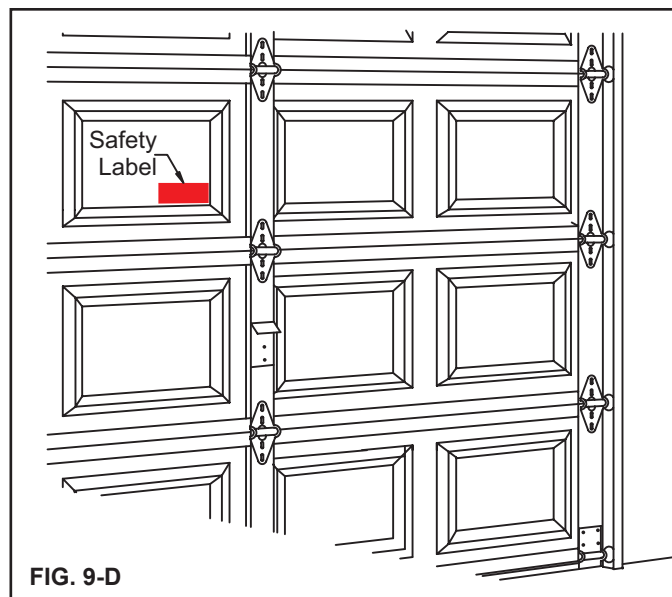
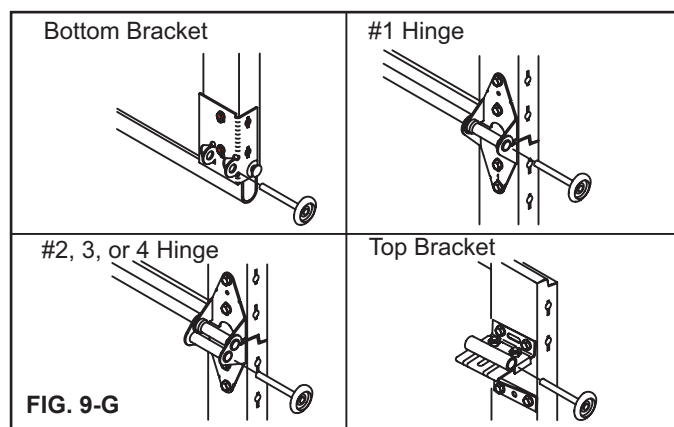
Step 9-8: Place the third section on top of the other sections and nail in place as before. Attach the hinges from the top of the previous section to the bottom of this section. (FIG. 9-D)

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 saw horses. Attach the top roller brackets as shown. The top roller brackets are to be attached with three (insulated doors) or four (non-insulated doors) #14 x 5/8" sheet metal screws. The top of the bracket should be located 3-1/4" down from the top of the door. The bottom of the bracket goes in smaller holes 6-1/4" from top of section. (FIG. 9-F)

If your door was supplied with any struts (consult Table 7-A on bottom of page 10), use 1/4" x 3/4" self tapping screws to attach strut as shown in the illustration. When pre-drilled holes in strut do not line up vertically with stiles, you will be required to drill (2) 3/16" pilot holes through the strut and the stile at each end stile and each center stile, or use a drill or impact wrench with a 7/16" socket to drive self-tapping screws through strut and stile. (FIG. 9-F)

Step 9-10: 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)



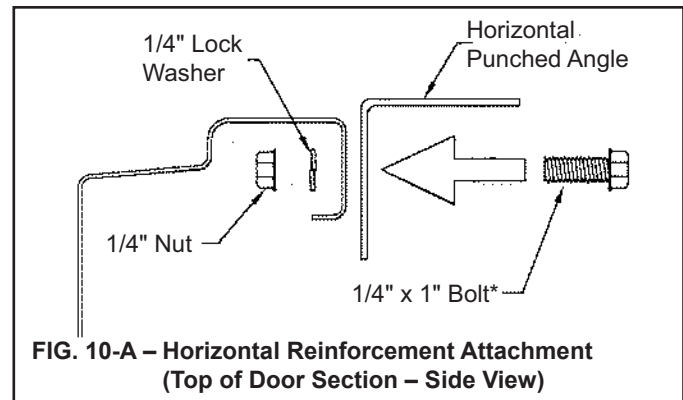
STEP 10 - Reinforcing the Top Section for Opener

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), two (2), 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-B to 10-E show how punched angle is to be affixed to door.

Horizontal Angle Attachment

Attach the horizontal punched angle (the longer piece) to the top section as shown in Figure 10-A. Angle iron may need to be trimmed depending on door section height and distance between center stiles. Some doors with struts may not need a horizontal angle; see Figures 10-B to 10-E to identify the attachment method for your specific door.

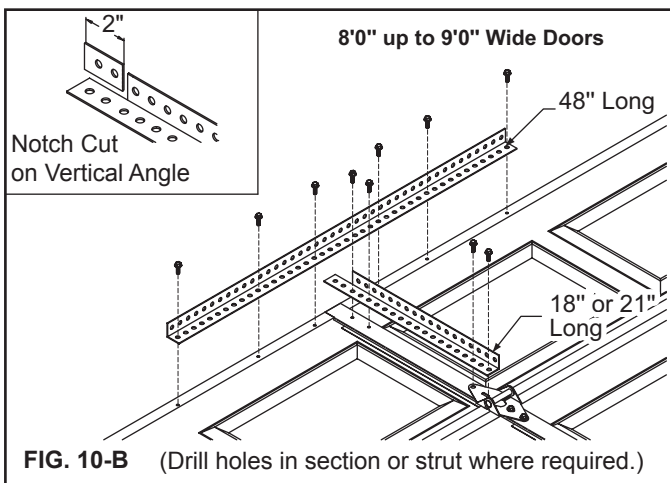
Do NOT install the bracket supplied with the opener. Failure to reinforce the door, as illustrated, will void your warranty.



*Fully-insulated doors use 1/4" x 3/4" self tapping screw.

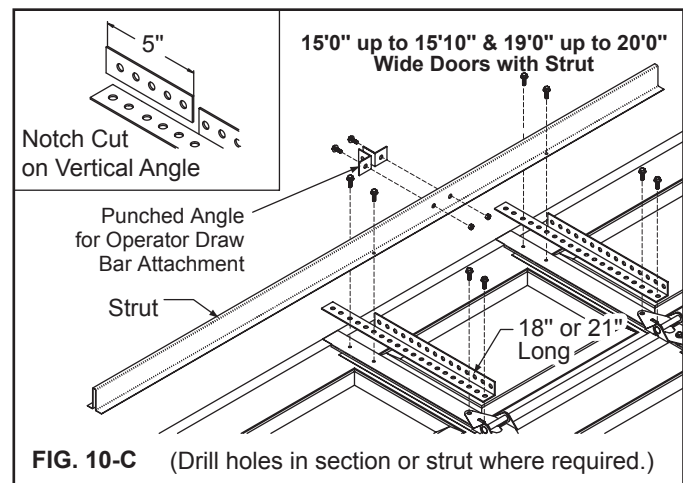
NOTE: An opener bracket kit specifically designed for opener attachment may be purchased as an option (silver galvanized or white powder coated). Instructions are provided with the kit.

NOTE: Operator may be attached up to 2 feet off center. (Doors with Torsion Springs Only)



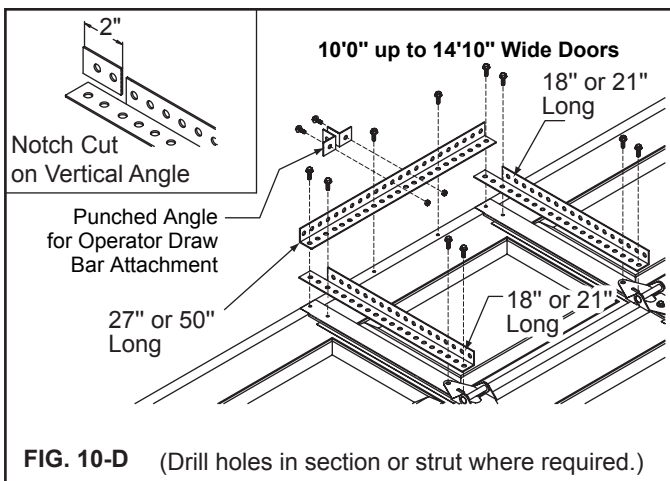
Required materials:

- (1) 18" or 21" and (1) 48" length of angle iron,
- (6) 1/4"x1" bolts, (6) 1/4" lock washers, (6) 1/4" nuts, and
- (4) #14 x 5/8" sheet metal screws.



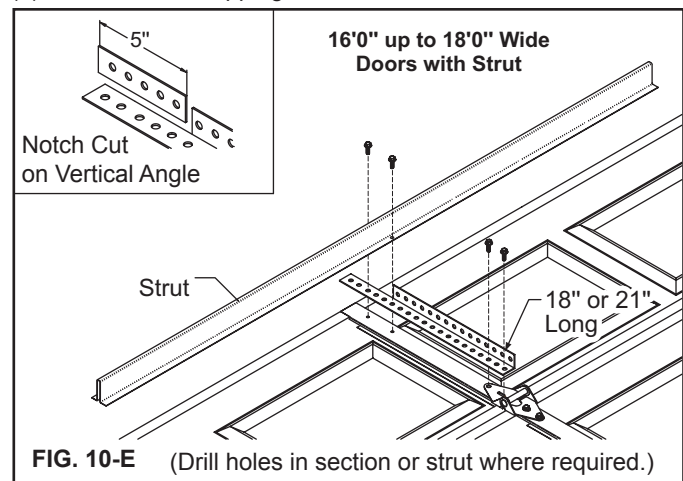
Required materials:

- (2) 18" or 21" lengths of angle iron,
- (2) 1/4"x1" 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:

- (2) 18" or 21" and (1) 27" or 50" length of angle iron
- (4) 1/4"x1" bolts, (4) 1/4" lock washers, (4) 1/4" nuts, and
- (8) #14 x 5/8" sheet metal 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-B)

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

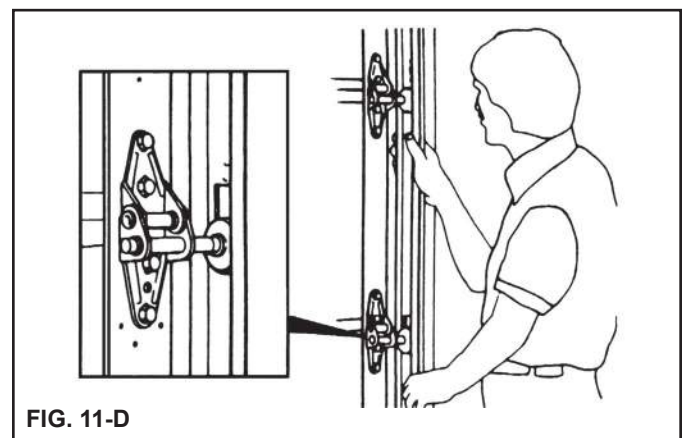
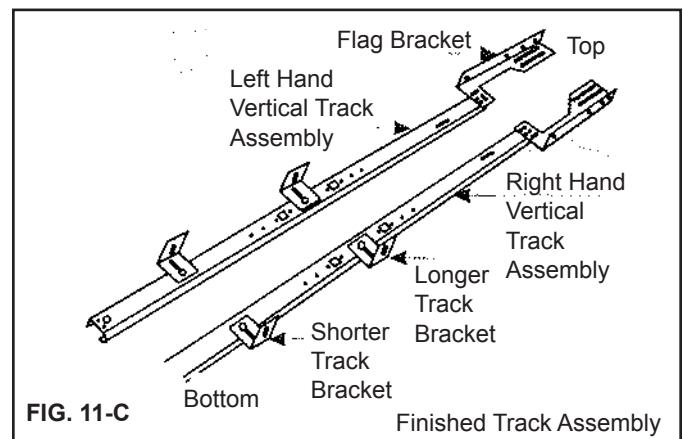
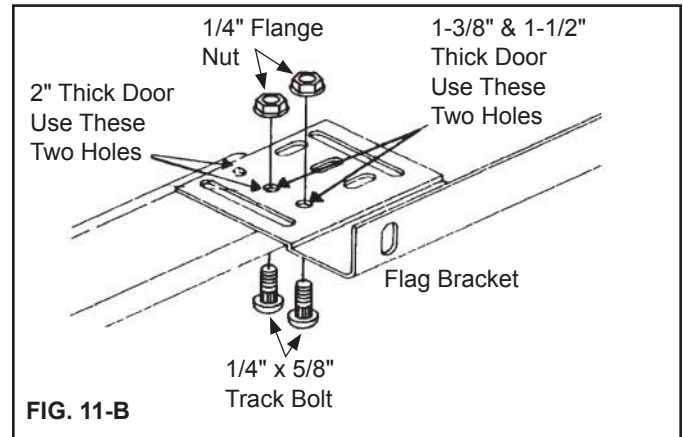
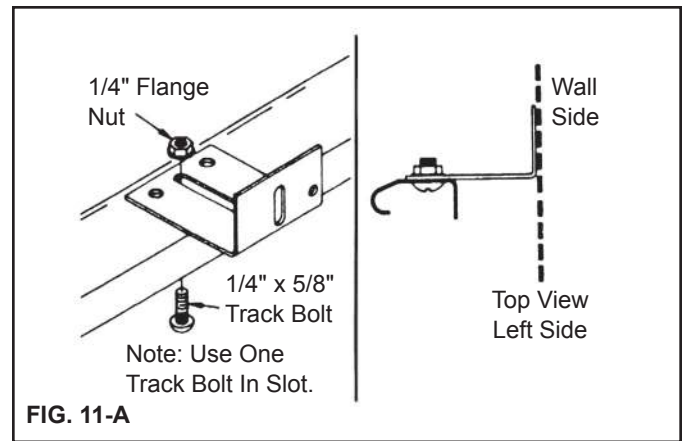
NOTE: If additional adjustment is required, horizontal slots in flag brackets can be used for attachment to vertical track.

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 only be attached directly to wood bucks.



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)

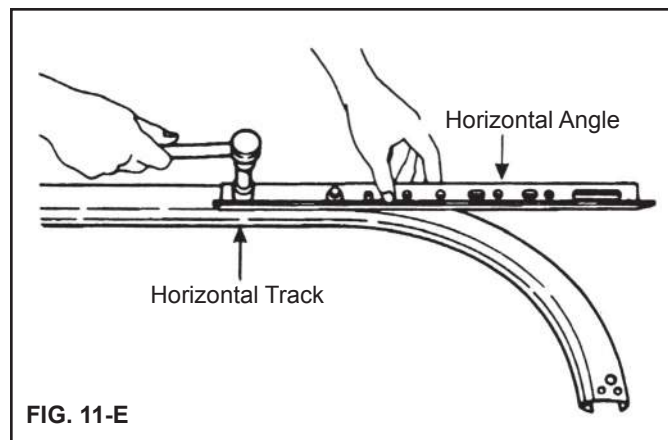


FIG. 11-E

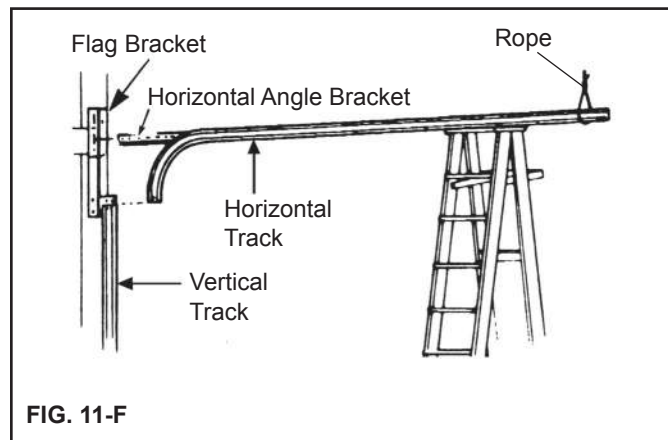


FIG. 11-F

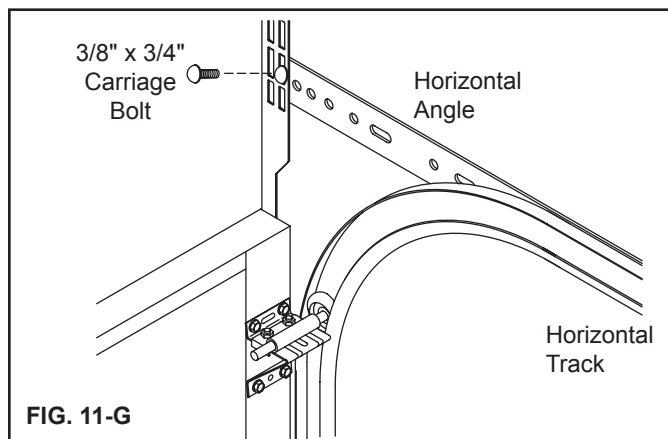


FIG. 11-G

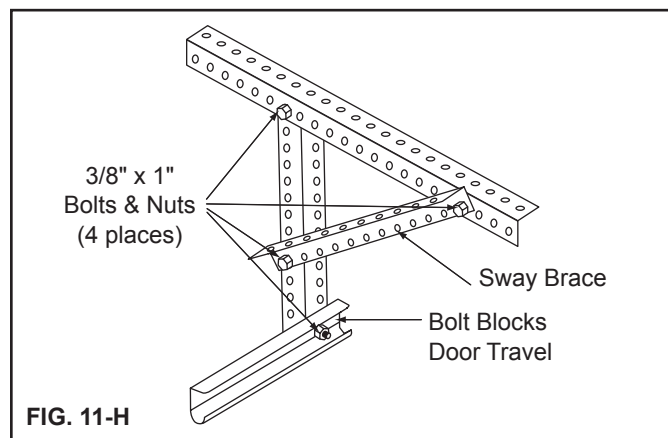


FIG. 11-H

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 towards 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 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.

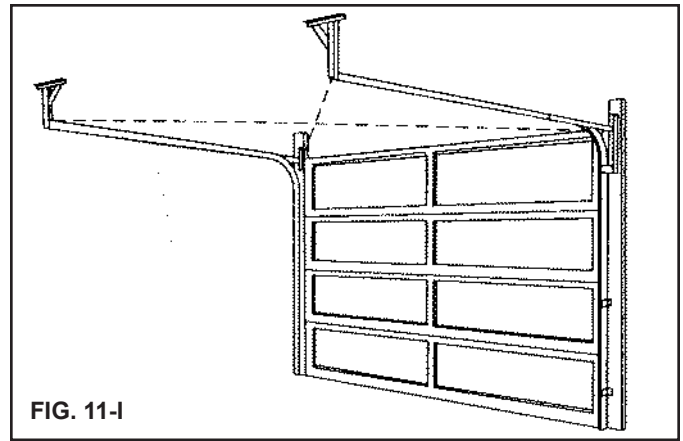


FIG. 11-I

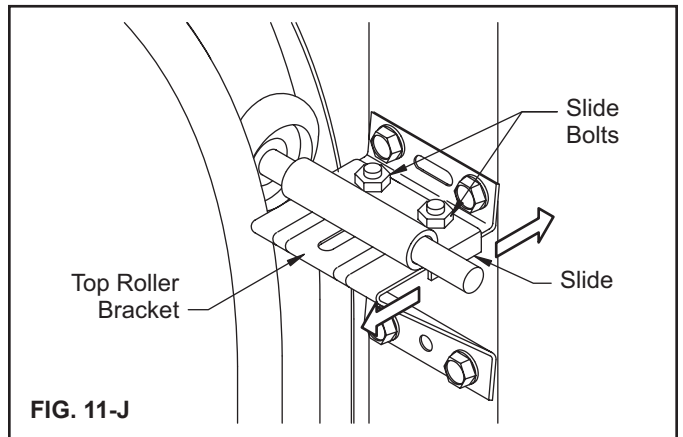


FIG. 11-J

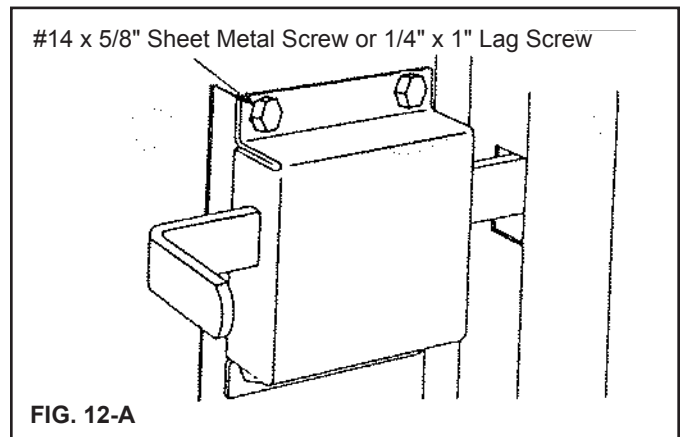


FIG. 12-A

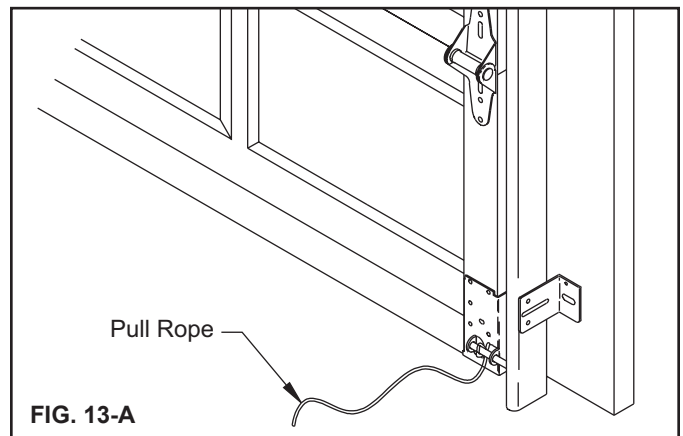


FIG. 13-A

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 down 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 down 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 to 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

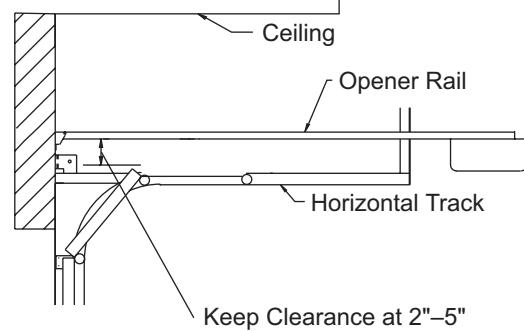


FIG. 15-A

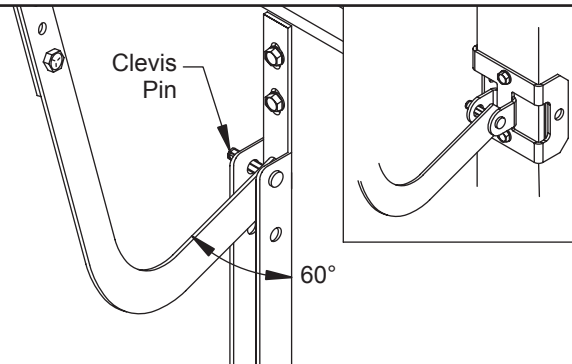
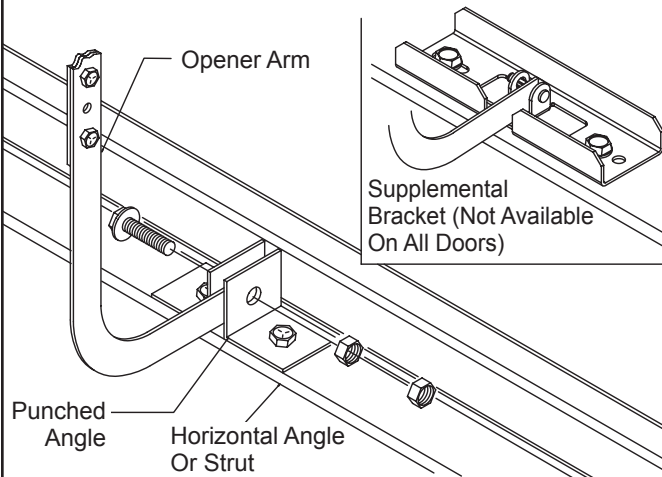


FIG. 15-B (Doors with supplied Reinforcement Bracket and Stile in Center of Door)

Opener Arm Attachment To Horizontal Angle Or Strut



Front View (Assembled)

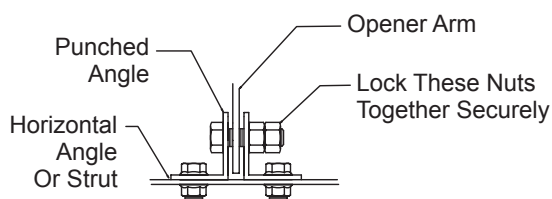
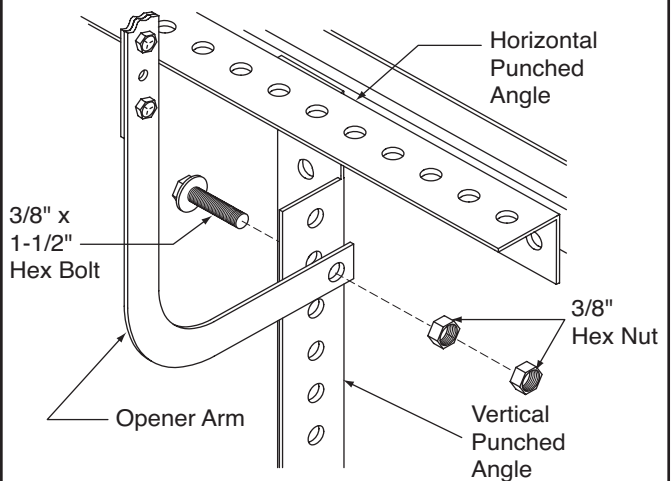


FIG. 15-C (Doors with odd number of Panels)

Opener Arm Attachment To Vertical Angle



Top View (assembled)

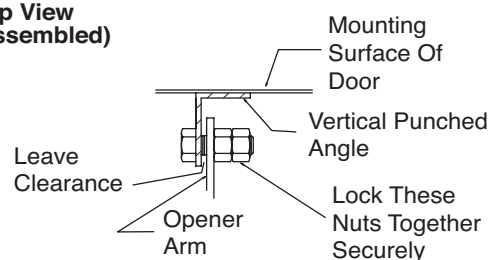


FIG. 15-D (Doors with Angle Iron Reinforcement Bracket and Stile in Center of Door)

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 acrylic latex paint. These paints will void the warranty of your door.

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. Pre test 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.

Alternate 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 pre test 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 & 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 Decorative Insert Removal And Replacement:

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

Some doors with windows have a decorative insert attached behind the window. They may be moved to the outside of the glass, or can be removed for cleaning or painting purposes.

- 1) Remove the four tabs of the insert from under the edge of the inside window frame. There is one tab on each side and one on the top and bottom of the insert.
- 2) The insert can be firmly pulled out of the window.
- 3) Replacing the insert is the reversal of the process described for removal. The four tabs must be pressed under the lip in the window frame.
- 4) If preferred, the insert can be snapped into the frame on the outside of the glass.

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 11" by 18-1/2" (standard panel windows) or 10-7/8" x 39-3/8" (long panel windows).
- 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 over tighten.
- 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 only be adjusted or repaired by a professional door technician.

Cleaning the Door

In order to prevent damage (rusting) caused by foreign matter adhering to the door, the door should be cleaned at least twice a year (normal environments) or 4 times a year (coastal environments). The door may need to be cleaned more frequently if road salt accumulates in a winter climate. The door should be wiped down with a mild household detergent and rinsed with clear water.

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

Waxing the Door

(Coastal and Harsh Environments)

For coastal and harsh environments, it will be necessary to wax the front side of the door following installation. Select a good quality car wax and apply according to wax manufacturer's instructions. Wax should be applied at least twice a year, immediately after cleaning (see cleaning instructions above).

Glass, Plexiglass, Stained Look, Leaded Look, Brilliance, and Studio 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.

Studio Series Windows Only:

Use a good grade of automotive paste wax and buff with a soft cloth. Windows should be cleaned and waxed at least once annually or more often based on the atmospheric conditions where installed.

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):
Monday – Friday, 8:30 AM - 7 PM
Saturday 8:30 AM - 5 PM.

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 # or serial number if special order
(Located on label on the back of the door or on packaging)