



Patent Pending

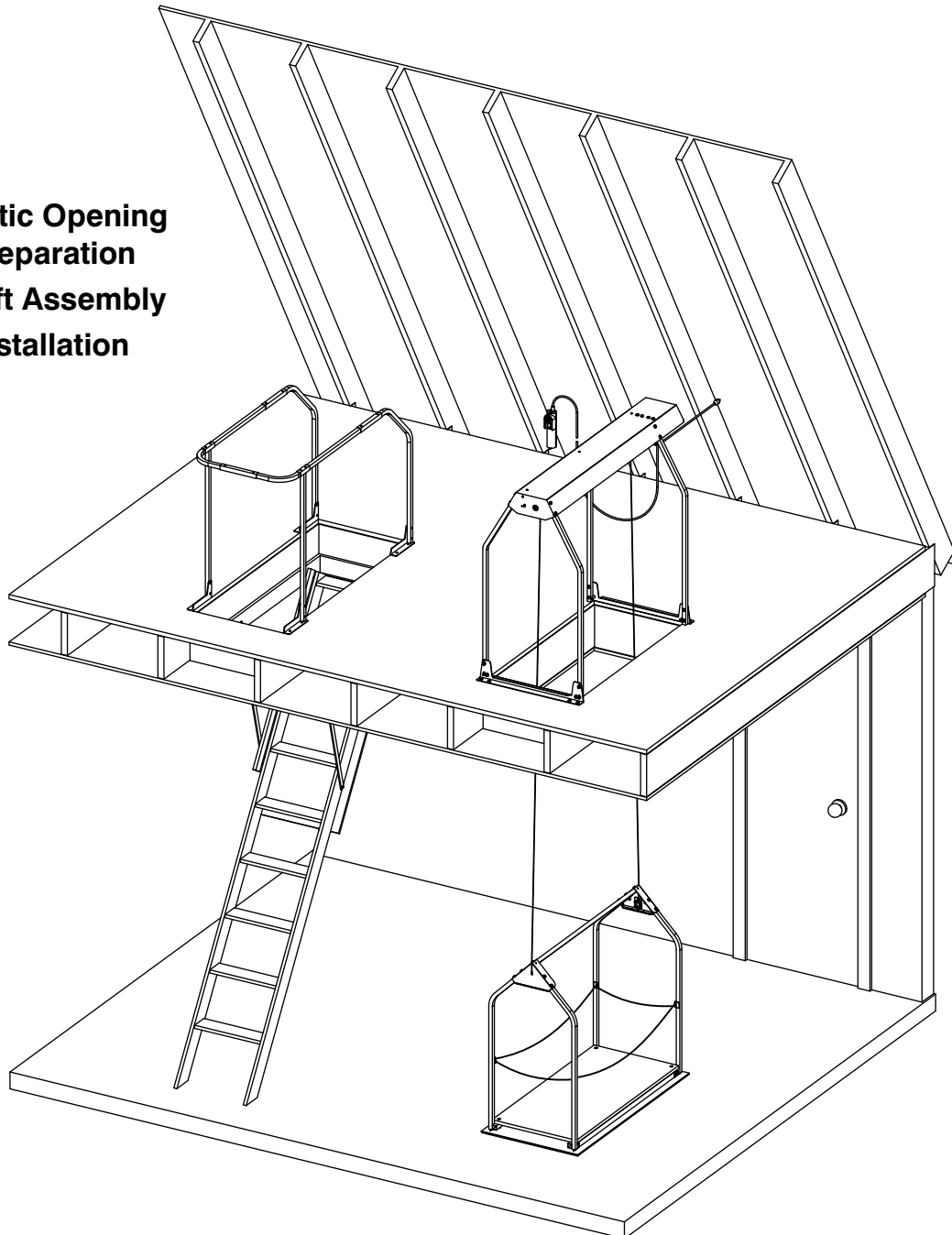
Attic Storage Lifting System

INSTALLATION GUIDE

Standard Models 24, 24H, & 24HX

Wireless Models 24W, 24WH, & 24WHX

- Attic Opening Preparation
- Lift Assembly
- Installation



READ THIS BEFORE YOU GET STARTED

SAFETY GUIDELINES - DEFINITIONS:

It is important to read and understand this manual. The information it contains relates to protecting *your safety* and *preventing problems*. The symbols below are used to help you recognize safety information.

⚠ DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

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

⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury.

READ THIS INSTALLATION GUIDE AND FOLLOW THE INSTRUCTIONS EXACTLY WHILE INSTALLING THIS PRODUCT.

⚠ DANGER NEVER ALLOW PERSONS ON OR IN THE LIFT! ABSOLUTELY NO RIDERS! No person under 18 year of age should be allowed to operate this product. Children should be kept away from the lift when it is in operation. This product can cause serious injury or death to a child who attempts to ride the lift or to lift others! When not in use, ALWAYS raise the lifting platform to the highest position, then unplug the power cord, lock the remote (standard models) and store the keys or wireless remote safely away where children cannot get to them!

⚠ WARNING When working with power tools, follow all of the manufacturers safety guidelines and wear approved safety glasses and hearing protection.

⚠ WARNING When you work in the attic, stay on decked areas. If you must be in non-decked areas, step only on the joists. The materials between the joists will not support your weight and will collapse if you stand or sit on them. Be alert to any overhead hazards, such as exposed nails. Beware of and avoid openings, such as the ladder or lift openings when working or moving around in the attic.

⚠ WARNING Do not work alone in the attic, always work with another person to help you. Do not work in the attic in the heat of the day. You can quickly be overcome by heat exhaustion in a hot attic. Morning hours are the coolest time to work in the attic after it has had all night to cool off.

IMPORTANT NOTICE:

DO NOT OPERATE THE MOTOR UNTIL YOU ARE INSTRUCTED TO IN STEP 9 OF THIS GUIDE! The Versa Lift Housing and Motor are pre-assembled at the factory and the winch shaft is pre-positioned for correct installation. If you run the motor before you are instructed to, you will cause the lift to malfunction and require recalibration by factory or authorized dealer. This repair is not covered by the warranty.

⚠ WARNING The ladder opening and lift opening present falling hazards to any person who enters the attic. When you are in the attic space, be alert at all times to these openings. *We highly recommend you install a safety railing around your ladder opening, such as the Versa Rail* (see Fig. 0).

⚠ WARNING If you install this lift product inside the living space of a home, or in a closet, or a walk-in attic accessible to children, then you must also install the Auto-Shutter* from BPG that automatically closes the lift opening as the platform goes down to help prevent children, pets, etc. from falling through the opening (the Auto-Shutter is not illustrated in this manual).

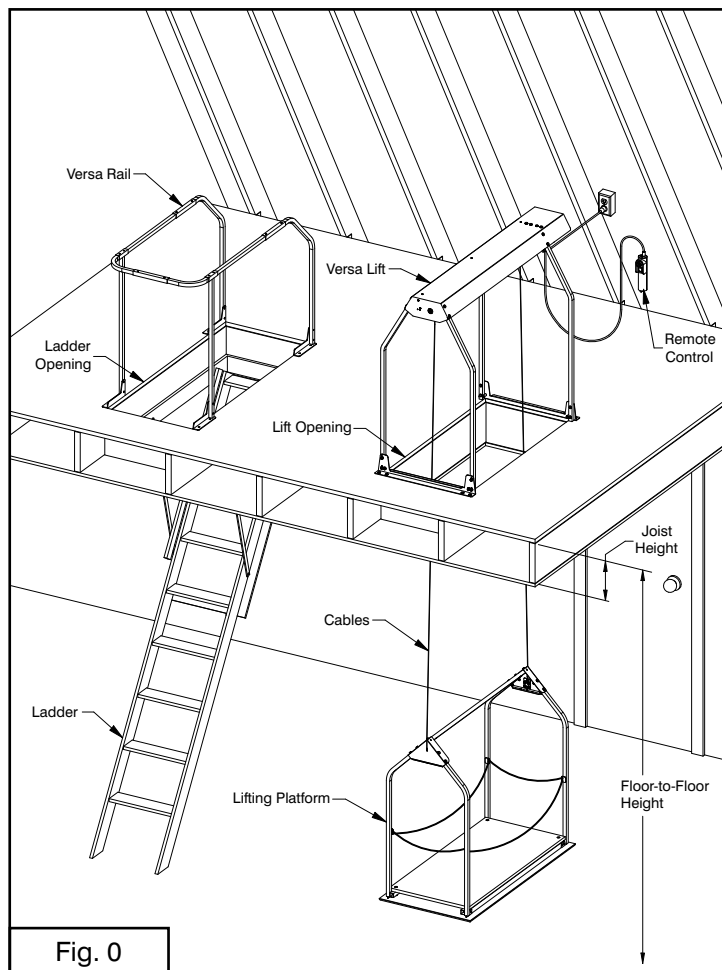


Fig. 0

BEFORE INSTALLING THIS LIFT:

Verify that this product and its installation does not violate local building codes. You can find out this information from a local building inspector, architect, structural engineer, or your building contractor.

Find out if there are any code restrictions on what types of things you can store in your attic.

Get professional advice and estimates on framing, decking and assembly if you are not qualified or physically able to do these tasks. You can find building contractors, remodeling contractors, architects, engineers and inspectors in the Yellow Pages.

You are responsible for determining the suitability of this product for your individual purposes, as well as installing it in a way that meets local building and safety codes.

⚠ WARNING Two persons are required to perform certain tasks in this guide for safer and easier installation. Performing these tasks alone is not recommended.

VERSA LIFT SPECIFICATIONS:

General Specifications		(All Models 24)
Dimensions		26x57x47H
Vertical Attic Space Req'd.		48" Min.
Max. Joist Height		16"
Lift Opening Size		22.5x46.5"
Motor		0.6 hp
Voltage		110 VAC
Power		4.5 amps
Lift Capacity Max.		200 lbs.
Lifting Speed		8 in/sec
Duty Cycle (minutes)		2 on / 4 off
Lifting Cables (2)		.093 7x19
Shipping Wt. (approx)		165 lbs.
Remote Control		Model
15' Corded Remote		24, 24H, 24HX
Wireless Remote		24W, 24HW, 24WHX
Model	Ceiling Height	Floor-to-Floor
24, 24W	10 ft. Max	8-11 ft.
24H, 24WH	13 ft. Max	11-14 ft.
24HX, 24WHX	19 ft. Max	14-20 ft.

Versa Lift

INSTALLATION OVERVIEW:

1. FRAME THE OPENING:

The first step to installing your new Versa Lift is preparing an opening in the ceiling where the lift will be located.

Tools/Materials Required: Saws, Drill, Hammer, Nails or Screws, Framing Square, Tape Measure, Header & Joist Lumber to match Existing Joists.

Skill Level: Professional - Do not attempt this part of the installation yourself unless you have professional skill in construction framing. Hire a building contractor or a remodeling contractor to do this job correctly. It will be well worth the cost to have this part done right. Before cutting any ceiling joist, consult a structural engineer to determine the best location for your lift and construction appropriate for your ceiling type. Also, get some advice on the best areas to deck your attic for storage, if your attic is not decked. For example, areas over walls will hold more weight than areas over large rooms.

2. DECK AN ATTIC SPACE:

If your attic is not already decked in the area where your Versa Lift will be installed, then decking material such as plywood must be added on top of the ceiling joists to make a floor that you can walk on and store items on.

Tools/Materials Required: Skill Saw, Hammer and Nails or Screws and Power Driver, Square, Tape Measure, Decking.

Skill Level: Handyman - If you have skill with general carpentry tools (sawing, measuring, nailing or screwing) and the physical strength to move large pieces of wood, then you can do this part yourself with a helper. (You can get 2 x 4-ft pre-cut plywood at most lumber stores. It is much easier to handle than 4 x 8-ft sheets.)

3. ASSEMBLE AND INSTALL THE LIFT:

The Versa Lift comes partially assembled. The cartons contain all of the parts and fastening hardware, along with detailed instructions in this guide for assembly.

Tools/Materials Required: Drill, 5/32" Drill Bit, Square, Tape Measure, Level, Phillips Screwdriver, Wrenches and/or Sockets and Ratchet.

Skill Level: Handyman - If you have the skill for general repair and maintenance using hand tools and can read and follow instructions, then you can do this part yourself with a helper.

ELECTRICAL REQUIREMENTS:

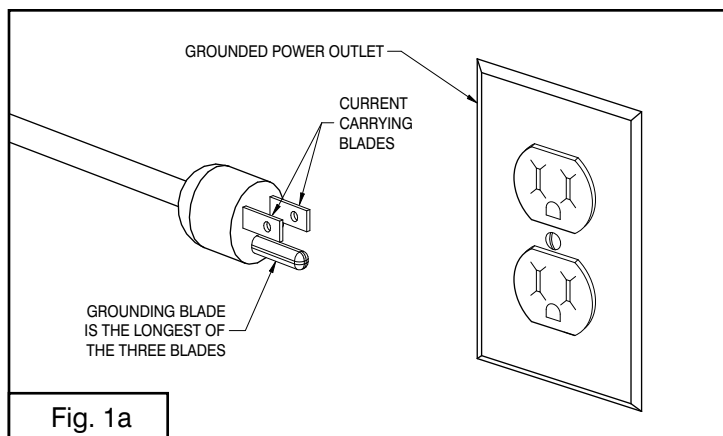
ELECTRICAL OUTLET:

You will need a single 110 volt AC grounded electrical outlet to plug in the Versa Lift power cord. It is highly recommended that the outlet be on the same switched circuit as the lighting in your attic so that when the attic lights are turned off, the power to the Versa Lift is also turned off. This arrangement will be more convenient for you and will prevent unintended operation of the lift.

The power cord provided with this product has three blades. The longest blade is the grounding blade (Fig. 1a). The shorter flat blades are the current carrying blades. You will need a grounded power outlet (receptacle) as shown below (Fig. 1a). If your outlet does not have a grounded receptacle for a three blade plug or if you are unsure if your outlet is correctly grounded, have a qualified electrician check the outlet (receptacle) to make sure it meets local codes. Incorrect grounding puts you at risk of electrical shock.

Never modify the equipment plug to fit a two blade outlet (receptacle)!

If you use an extension cord, it must be a heavy duty three-wire type with a three blade grounding plug and matching grounded outlet (receptacle) like those shown in Fig. 1a and rated for at least twice the load (10 amps minimum).



⚠ WARNING To prevent unintended lift operation, you must turn the power switch off, unplug the power cord, or disconnect the power when not in use! The wireless model radio is active if the lift has power and is turned on and can operate the lift whenever a coded signal is received, either from the Versa Lift remote control transmitter or from another transmitter in your area! Unintended operation could cause the lifting platform to move downwards unexpectedly, possibly causing injury to persons or damage to property located directly under the lift.

LIFT OPENING REQUIREMENTS:

VERTICAL ATTIC SPACE:

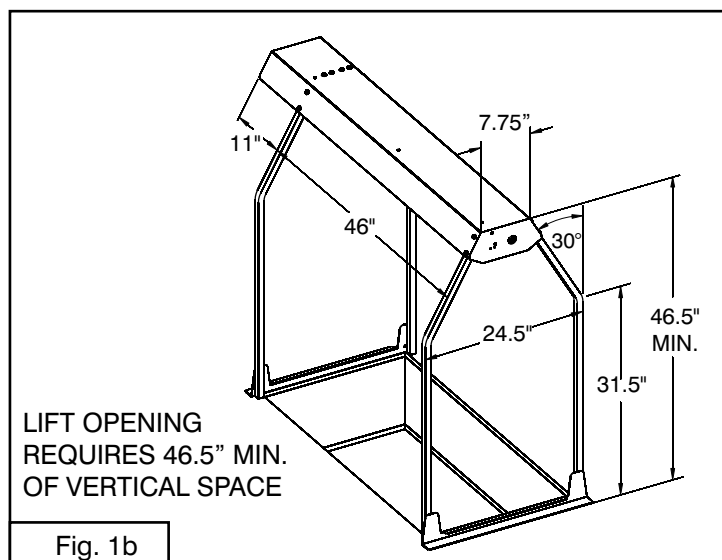
The Versa Lift requires a minimum of 48" of vertical space directly over the lift opening (Fig. 1b).

OPENING DIMENSION & TOLERANCES:

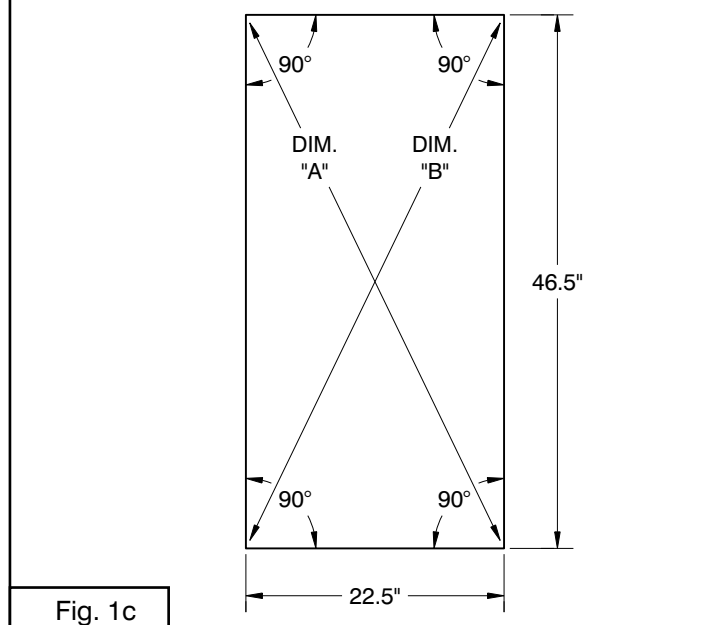
The final opening size is 22½" x 46½" with a tolerance of +1/4" and -0" (the opening can be up to 1/4" larger, but no smaller.) The lift opening must be square as shown below (Fig. 1c). Diagonal A should equal B within 1/2".

LIFT OPENING FINISH:

The lift opening must have smooth, perpendicular side walls. No nail heads, brackets, sheet rock or decking can protrude or extend into the opening, as this will cause the lifting platform to become caught on those edges and the lift will malfunction. (See Figs. 2 & 3).



LIFT OPENING MUST BE SQUARE ($A = B \pm 1/2"$)

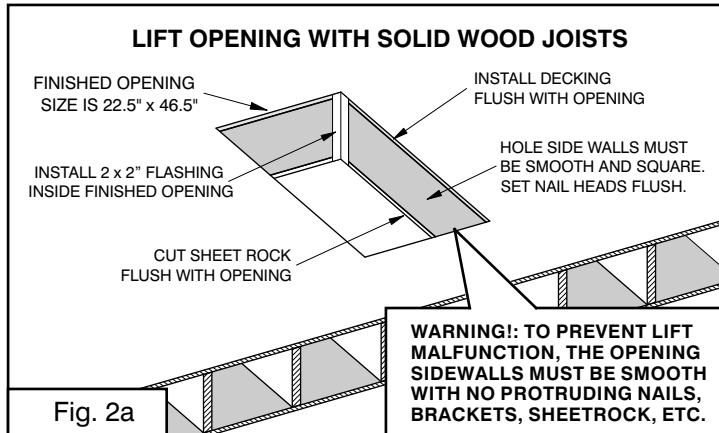


LIFT OPENING REQUIREMENTS (Cont):

OPENINGS IN SOLID WOOD JOISTS:

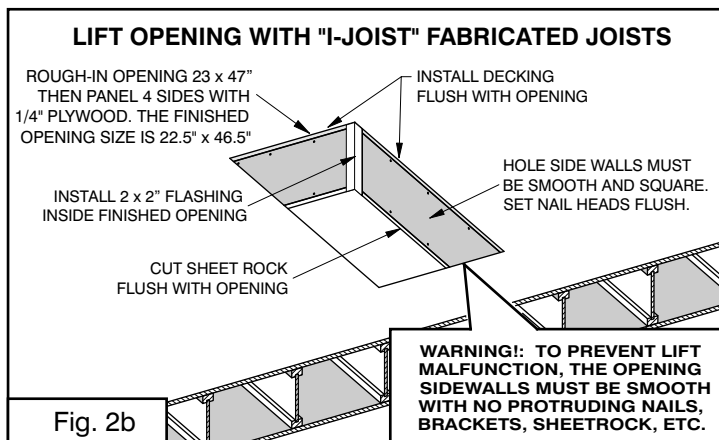
When ceiling joists are solid wood, the final opening size must be **22½" x 46½"**. All side walls must be smooth and perpendicular (the opening can't be smaller at the bottom). Cut sheet rock and decking flush with the walls.

Nothing can protrude inside the opening: Nail heads must be set flush or below the surface. Install the 2"x2" L-flashing (provided) in the corners of the opening to cover hanger brackets and nail heads (see Fig. 2a).



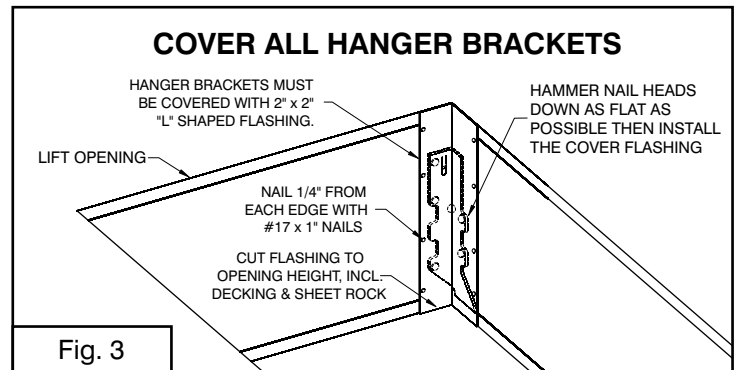
OPENINGS IN FABRICATED I-JOISTS:

When ceiling joists are "I-Joists" the rough opening size must be 23 x 47" (½" larger in each dimension) to allow space to panel the joists with 1/4" thick plywood (Fig. 2b). The 1/4" paneling will provide the required smooth walls and cover I-joist ledges. The paneled final opening size will then be 22½" x 46½". The side walls must be square (perpendicular) and all nail heads must be set flush or below the surface. Cut all sheet rock and decking flush with the edges of the opening. (See pgs. 8-9 on I-joists.) Install the 2"x2" L-flashing (provided) in the corners of the opening to cover hanger brackets & nail heads (Fig. 2b).



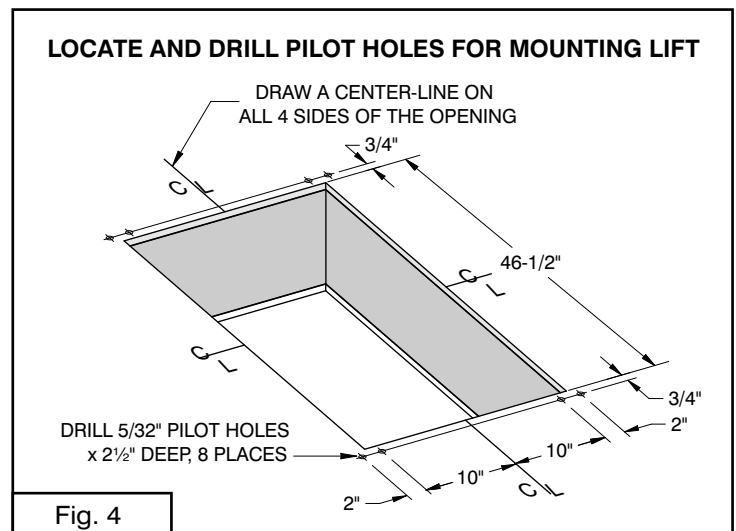
⚠ WARNING THE VERSA LIFT OPENING MUST HAVE SMOOTH PERPENDICULAR SIDE WALLS: Nail heads, hanger brackets, sheet rock or decking must NOT protrude or extend into the opening, as this can cause the lifting platform to hang up and malfunction, resulting in possible damage or personal injury! Product warranty is void if the opening does not meet the exact requirements detailed in these pages.

INSTALL FLASHING IN ALL OPENINGS: Install the 2 x 2" L-flashing the corners of all openings, even in I-Joist openings that are paneled with 1/4" plywood. Cut the flashing to the finished opening height (including sheet rock and decking). Align it to the bottom and nail both edges with #17 x 1" nails, placing nails within 1/4" from each edge (Fig. 3). The flashing strips cover nail heads and brackets while providing a slippery surface in the opening to reduce paint wear on the lifting frame.



PILOT HOLES FOR MOUNTING THE LIFT: Mark the location of the mounting holes on the floor deck at either end of the lift opening. These will be pilot holes for the lag screws provided to secure the lift to the attic floor.

Find and mark the center on each side of the rectangular opening, then use a straight edge or square to draw a center line (Fig. 4). Next draw a line parallel to each of the narrow ends and spaced 3/4" away from the opening. Measure along the parallel lines 10" each way from the center line and mark 4 hole centers (Fig. 4). Then measure 2" over from the first 4 marks and mark 4 more hole centers (Fig. 4). Find the "Mounting Rails" in the Versa Lift carton and place them over the hole centers you have marked to check your work. The hole centers should match the four slotted holes on the Mounting Rails. If so, drill 8 pilot holes with a 5/32" bit on the hole centers you have marked (Fig. 4). Approximate depth of the pilot holes is 2-1/2".



6 Versa Lift ATTIC OPENING PREPARATION

NOTICE: The general framing illustrations & techniques (pages 6-9) are provided for illustrative purposes only and are not intended as specific directions for you to follow in your individual installation. Use them to help you plan your installation with a professional engineer, architect, or contractor, according to local codes and building practices. BPG does not warrant this product to be suitable for your intended purpose, location, structure, installation or use. You are responsible for choosing the appropriate location, method of installation and determining suitability of this product.

ALIGNED OPENING VS TRANSVERSE OPENINGS:

In general, transverse openings should be avoided because more joists will have to be cut which will weaken the ceiling more than an aligned opening.

An aligned opening with joists 24" OC can be framed without the need to cut a ceiling joist (Fig. 5).

An aligned opening with joists 16" OC requires one joist to be cut (Fig. 6).

A transverse opening with joists 16" or 24" OC will require more joists to be cut (Fig. 7 & Fig. 8).

Please consult a professional to evaluate the strength ceiling construction and determine if transverse mounting is advisable and to determine if you will need to double the adjacent joists to compensate for the joist(s) you cut (see Figs. 7 & 8). This will depend on a number of factors, including the size and span of the existing joists, whether or not there are roof trusses involved, and where roof supports are located.

Note: Joist hangers can be used instead of blocking. Joist hangers must be covered with 2 x 2" "L" flashing (provided) to prevent the lift platform from hanging in the opening, causing lift malfunction or damage (see Fig. 2a, 2b, & 3 pg. 5 for details).

Joist Hanger for Solid Wood Joists

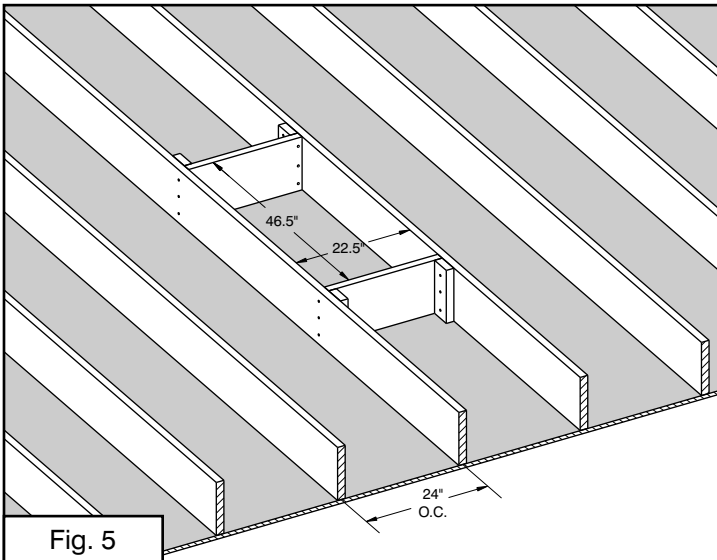
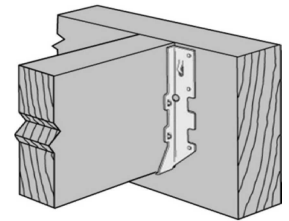


Fig. 5

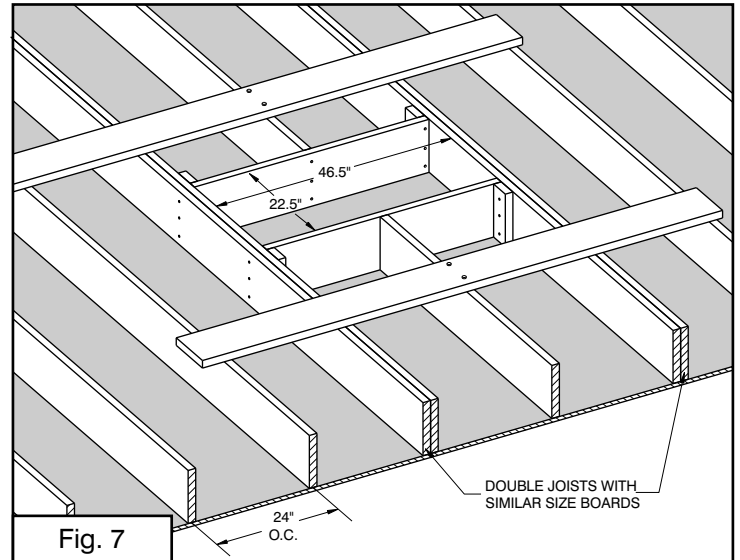


Fig. 7

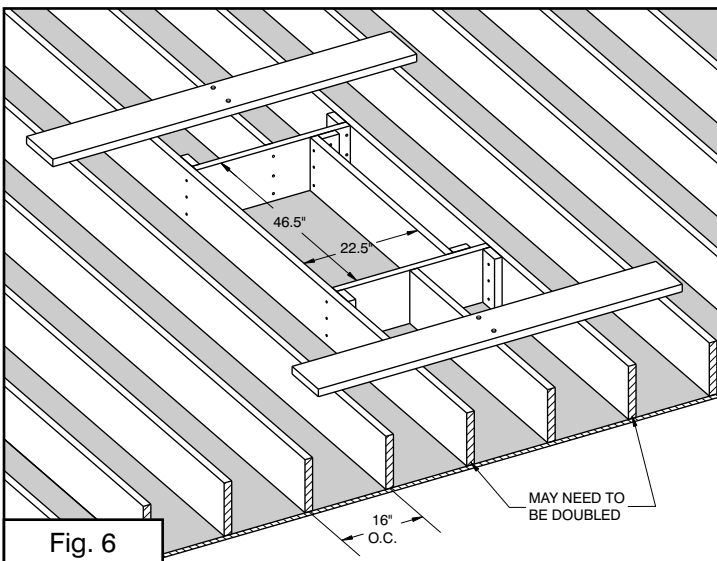


Fig. 6

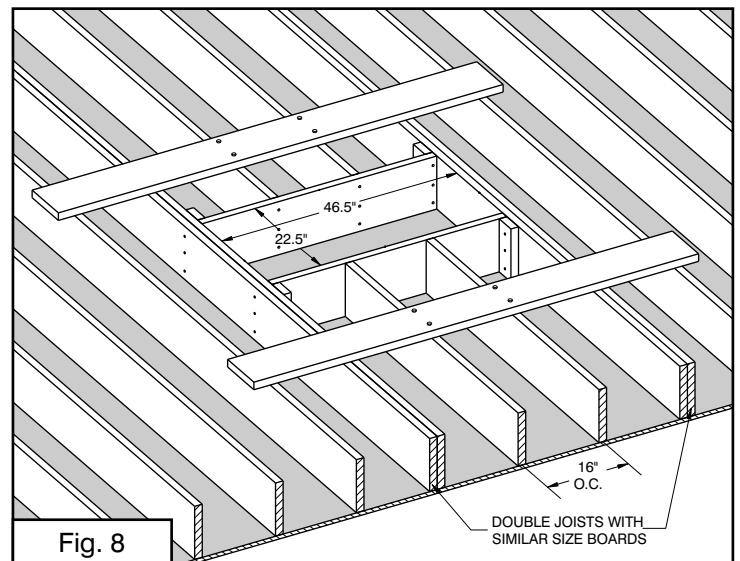


Fig. 8

ONE POSSIBLE FRAMING PROCEDURE for solid wood joists 16" OC: After choosing a location, if your attic is already decked, you will need to remove enough decking to expose the joists in the area of the opening. If your attic is not yet decked, then nail down some plywood on either side for a temporary work surface.

You will need temporary supports for any joist that will be cut. One technique is shown below using two 2 x 8" (minimum size) planks to span the adjacent joists. Each plank is secured with 2 lag screws to the joist(s) to be cut (Fig. 9). A framing square is used to mark guide lines for headers and cut lines (Fig. 9 inset). After cutting the joist, 2x4" or 2x6" blocking is installed (Fig. 10 & inset). Mark, cut, and install headers with blocking (Fig. 11 & detail). Trim the joist section removed in Fig. 9 and install it to finish the framed opening (Fig. 12 & inset). Cut the sheet rock flush with the opening (Fig. 13). Install decking flush. Finally, install the 2 x 2" flashing in the corners (Fig. 13).

Note: Joist hangers can be used instead of blocking. Joist hangers must be covered with 2 x 2" "L" flashing

to prevent the lift platform from hanging up and causing the lift to malfunction (see page 5 for details).

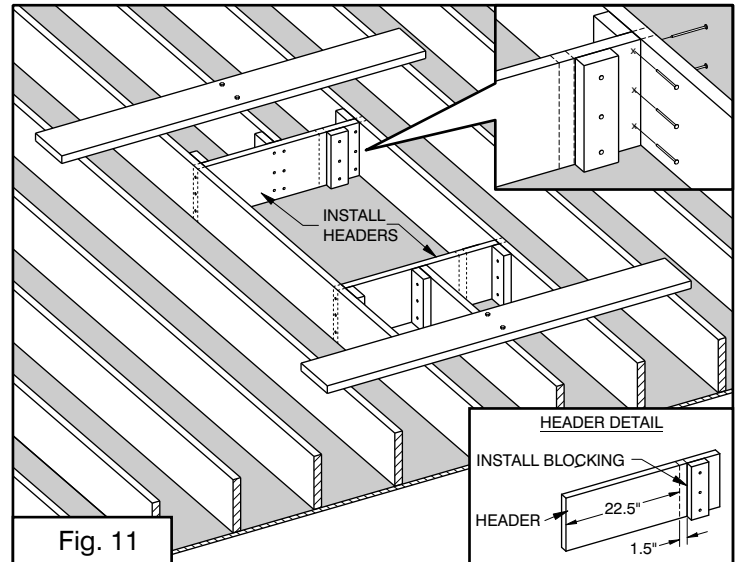


Fig. 11

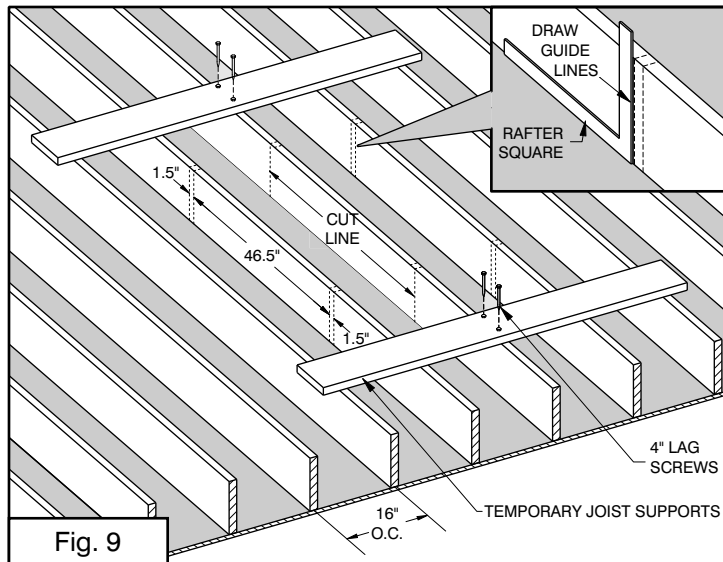


Fig. 9

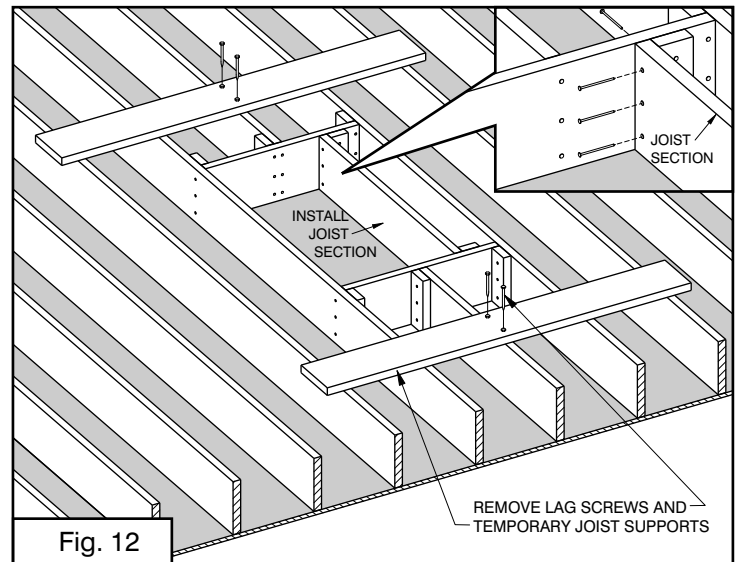


Fig. 12

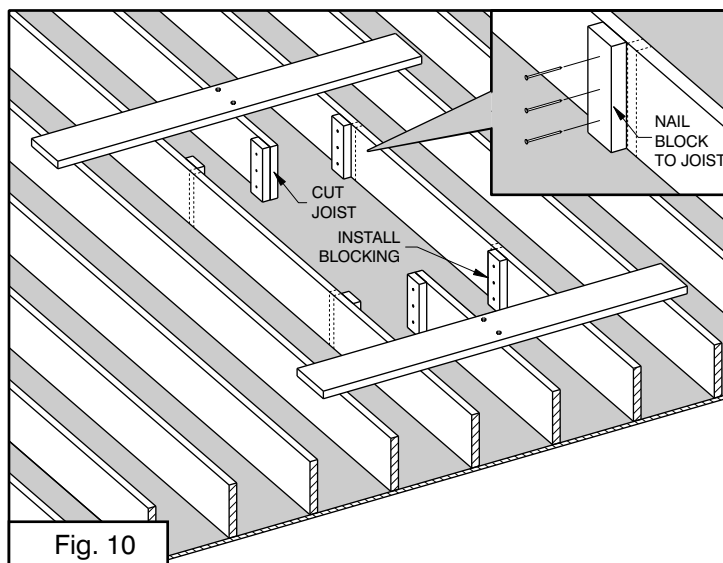


Fig. 10

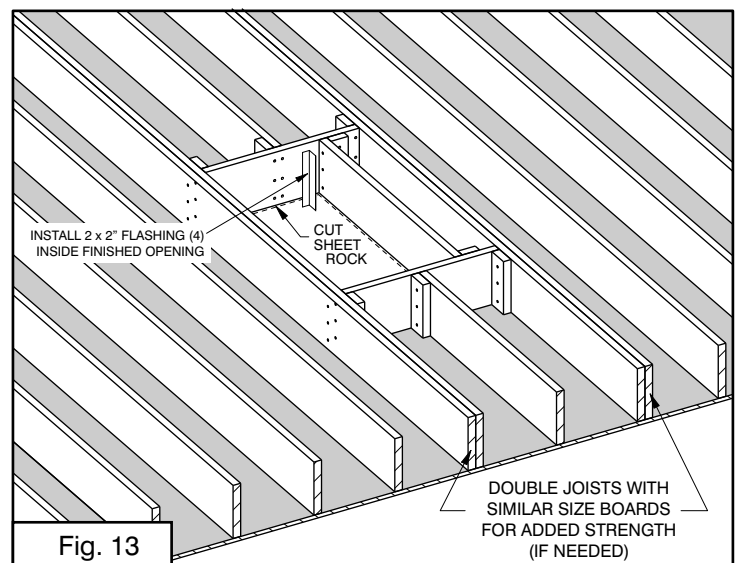


Fig. 13

ONE POSSIBLE FRAMING TECHNIQUE for I-JOISTS

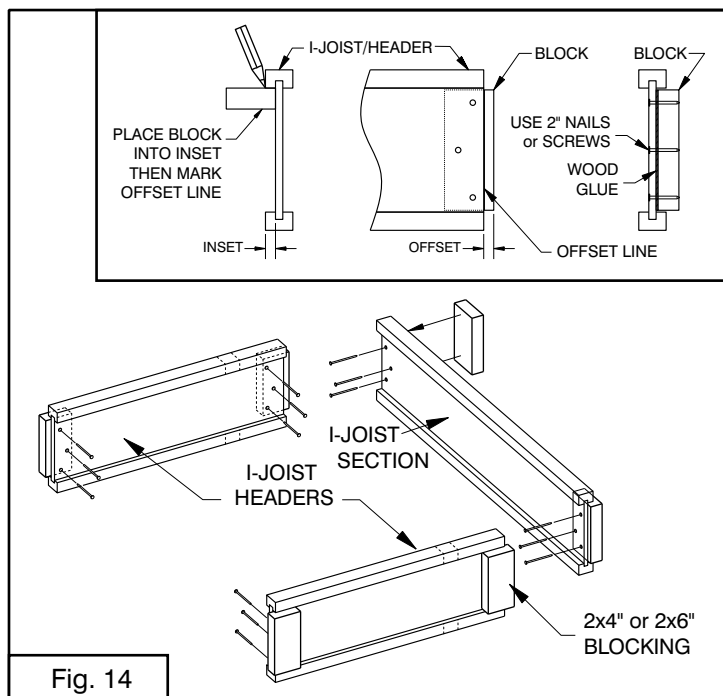
16" OC: This procedure is generally the same as with solid wood joists (see prior page). However, I-Joists are too narrow on the ends to hold a nail when attaching one I-Joist perpendicular to the face of another.

I-Joists can be joined perpendicular by using specially formed metal hanger brackets.

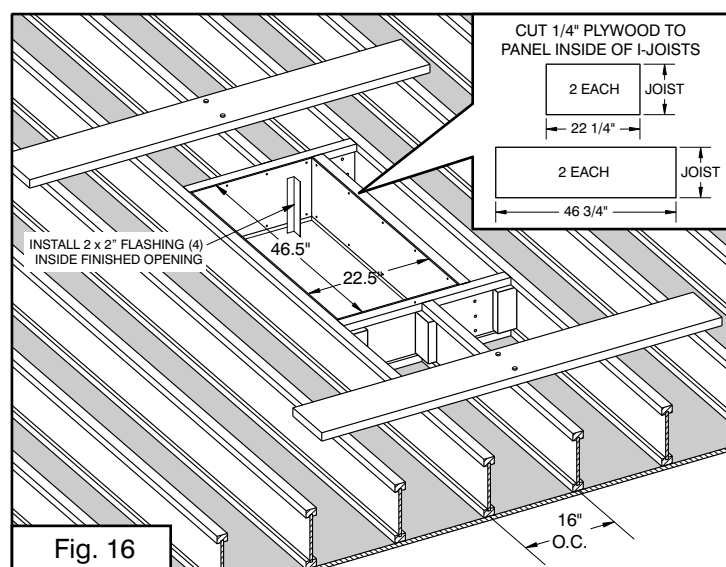
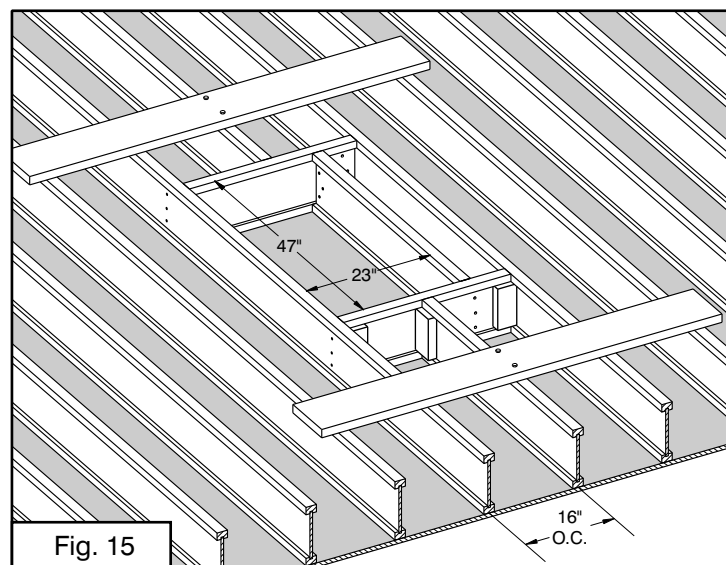
Another way to join I-Joists is to install blocking on the ends of I-Joist sections and headers (see Fig. 14). The block provides a thickness to the end of the I-Joist that can be nailed into. Second, the block is offset so that it fits into the inset in the face of the perpendicular I-Joist. The blocking should be attached securely (Fig. 14 inset) and placed on the side opposite the opening (since the opening must not have anything projecting inward).

I-Joists have recessed faces that form ledges that can hang-up the lifting platform as it travels downward from the attic. To resolve this problem and to cover any metal hanger brackets, **all I-Joist openings must be framed 1/2" oversized in each dimension to 47" x 23"** (Fig. 15). Next cut 1/4" thick plywood panels (Fig. 16 inset) and nail them to the four I-Joists faces inside the opening (Fig. 16). The final size opening will be 46 1/2" x 22 1/2" (Fig. 16). Please note that any nail heads in the opening must be set flush or below the surface and decking and sheet rock must be cut or installed flush to the opening (Fig. 2b & 16). Finish the opening by installing the 2 x 2" flashing in the corners (Fig. 16).

As with solid wood joists, I-Joists that need to be cut must be supported by some means until they are connected to headers that tie them to adjacent I-Joists.

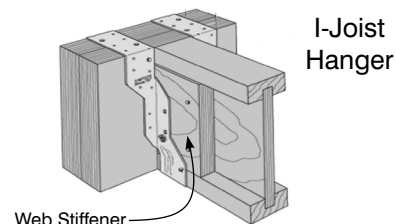


This technique requires that you have additional I-Joist material of the same size as that used in you ceiling. If you do not have access to additional I-Joist, then see the technique on the following page.



Note: I-Joist hangers can be used instead of blocking. Finish opening with 1/4" paneling to cover hangers and create a smooth-sided opening (Fig. 16), then install 2 x 2" flashing in every corner (Fig. 16 & pg. 5).

Depending on location and code requirements, web stiffeners may be required for I-Joist when using hanger brackets.



ANOTHER POSSIBLE FRAMING TECHNIQUE for I-JOISTS 16" OC: The procedure is generally the same as with I-Joists on the prior page, but when the home is a finished construction (already built and owned) you may not have extra I-Joist pieces from which to construct headers. In this case, you may need a way to construct headers from other available material.

One way to address this problem is to construct headers from $\frac{1}{2}$ " or $\frac{3}{4}$ " plywood and 2 x 2" rails (Fig. 17). Join the rails to the plywood with wood glue and nails or screws. Then attach offset blocking (Fig. 17) as previously explained. Headers constructed this way will have good strength and have the advantage of a smooth face toward the opening. **NOTE:** The blocking is attached **flush with the ends** of the I-Joist Section when using constructed headers with a flat inside surface (Fig. 17).

When headers are constructed as described above, the opening must be framed $\frac{1}{2}$ " oversized in only one dimension to $46\frac{1}{2}" \times 23"$ (Fig. 18). Next, cut two $\frac{1}{4}"$ thick plywood panels (Fig. 19 inset) and nail them to the two I-Joist faces inside the opening (Fig. 19). The final opening size will be $23\frac{1}{2}" \times 46\frac{1}{2}"$ (Fig. 19). Please note that any nail heads in the opening must be set flush or below the surface and decking and sheet rock must be cut or installed flush to the opening (Fig. 2b & 19). Finish the opening by installing the 2 x 2" flashing in the corners as shown in Fig. 19.

As with solid wood joists, I-Joists that need to be cut must be supported by some means until they are connected to headers that tie them to adjacent I-Joists.

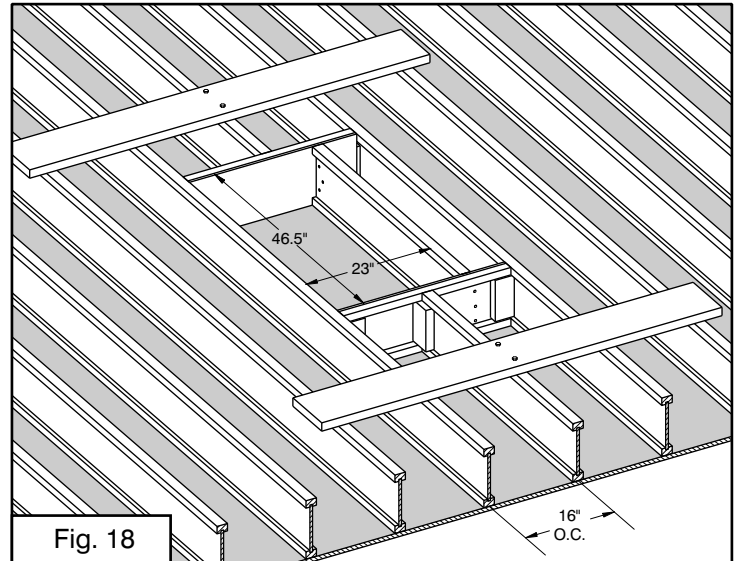


Fig. 18

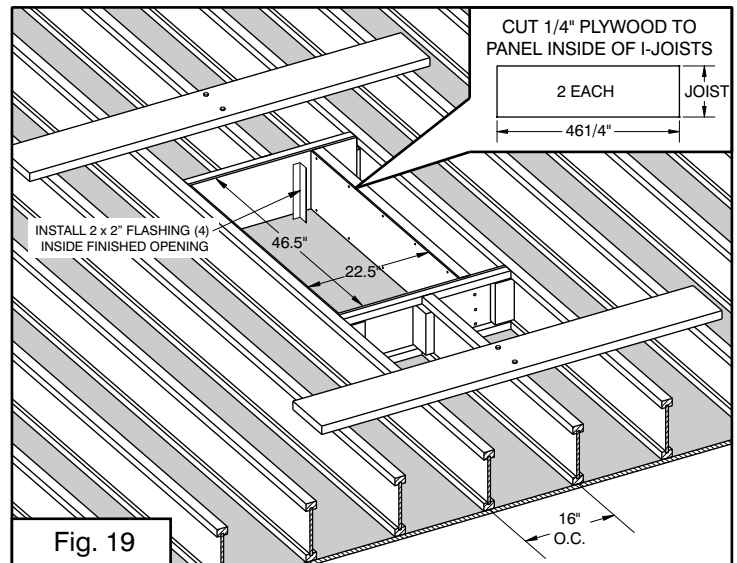


Fig. 19

Note: I-Joist hangers can be used instead of blocking. Finish opening with $\frac{1}{4}"$ paneling to cover hangers and create a smooth-sided opening (Fig. 16), then install 2 x 2" flashing in every corner (Fig. 16 & pg. 5).

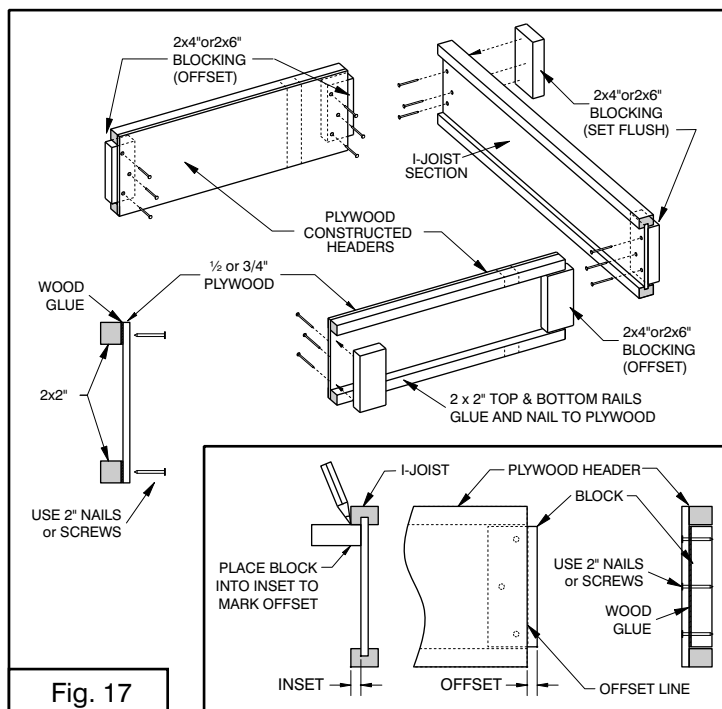
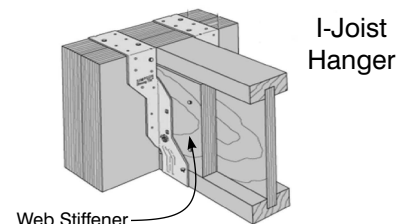


Fig. 17

Depending on location and code requirements, web stiffeners may be required for I-Joist when using hanger brackets.



1a. UNPACKING Standard Models: Save Your Cartons! (You will need the carton for warranty repairs, save it!)

The Versa Lift is packed in two cartons. Carton 1 contents are shown below in Fig. 20a. The fasteners shown in Fig. 20a inset will be in a hardware bag. Open the carton and check the contents to locate all of the items in Fig. 20a.

Carton 2 contains the door panel and platform panel shown in Fig. 20b. Open the carton and remove the panels. Check all of the components in cartons 1 and 2 for damage. If any components are missing or damaged, do not proceed with assembly. First, contact BPG about a replacement for any missing or damaged items.

CARTON 1 CONTENTS:

1. Lift Housing Assembly (1)
2. Mounting Rails (2)
3. Lift Housing Legs (4)
4. Left Platform Legs (2)
5. Right Platform Legs (2)
6. Door Braces (2)
7. Platform Top Braces (1)
8. Platform Supports (2)
9. Platform Leg Brackets (2)
10. Cable Clamps (2)
11. 1/4" x 2-1/2" Lag Screw (8)
12. 1/4-20 x 2" Carriage Bolt (4)
13. 1/4-20 x 1-1/2" Hex Bolt (26)
14. 1/4-20 x 1-1/2" Phillips Screw (4)
15. 10-32 x 7/8" Phillips Screw (6)
16. 10-32 x 3/8" Phillips Screw (8)
17. 1/4 x 1" Flat Washer (8)
18. 1/4 x 5/8" Flat Washer (99)
19. 1/2 x 1" Nylon Guide Spacer (4)
20. 1/4-20 Locknut (44)
21. 10-32 Locknut (6)
22. Screw Cover (6)
23. 1/2 x 3/8" Cable Clamp Spacer (10)
24. 6-32 x 1/4" Phillips Screw (4)
25. #17 x 1" Nails (2 oz.)
26. 2 x 2" x 20" "L" Flashing (4)
27. Short Chains (2)
28. Long Chains (2)
29. Installation Guide (1)
30. Owners Manual (1)

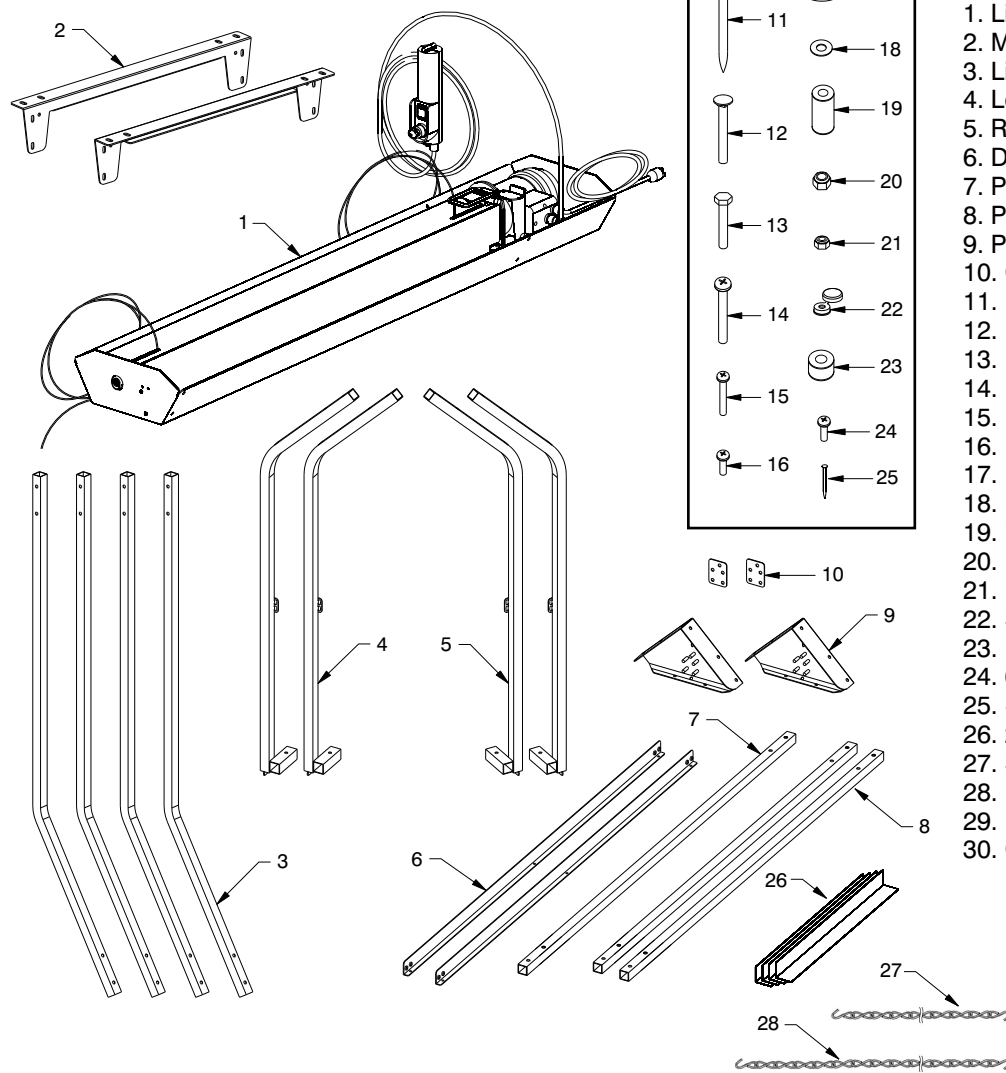


Fig. 20a

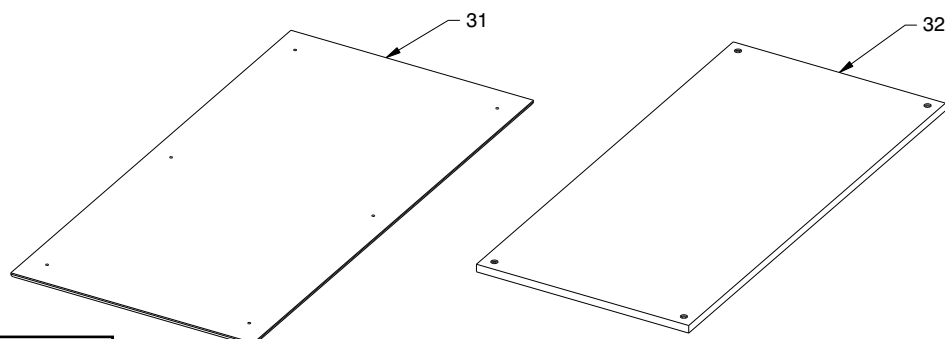


Fig. 20b

CARTON 2 CONTENTS:

31. Door Panel (1)
32. Platform Panel (1)

1b. UNPACKING Wireless Models: Save Your Cartons! (You will need the carton for warranty repairs, save it!)
The Versa Lift is packed in two cartons. Carton 1 contents are shown below in Fig. 21a. The fasteners shown in Fig. 21a inset will be in a hardware bag. Open the carton and check the contents to locate all of the items in Fig. 21a.

Carton 2 contains the door panel and platform panel shown in Fig. 21b. Open the carton and remove the panels. Check all of the components in cartons 1 and 2 for damage. If any components are missing or damaged, do not proceed with assembly. First, contact BPG about a replacement for any missing or damaged items.

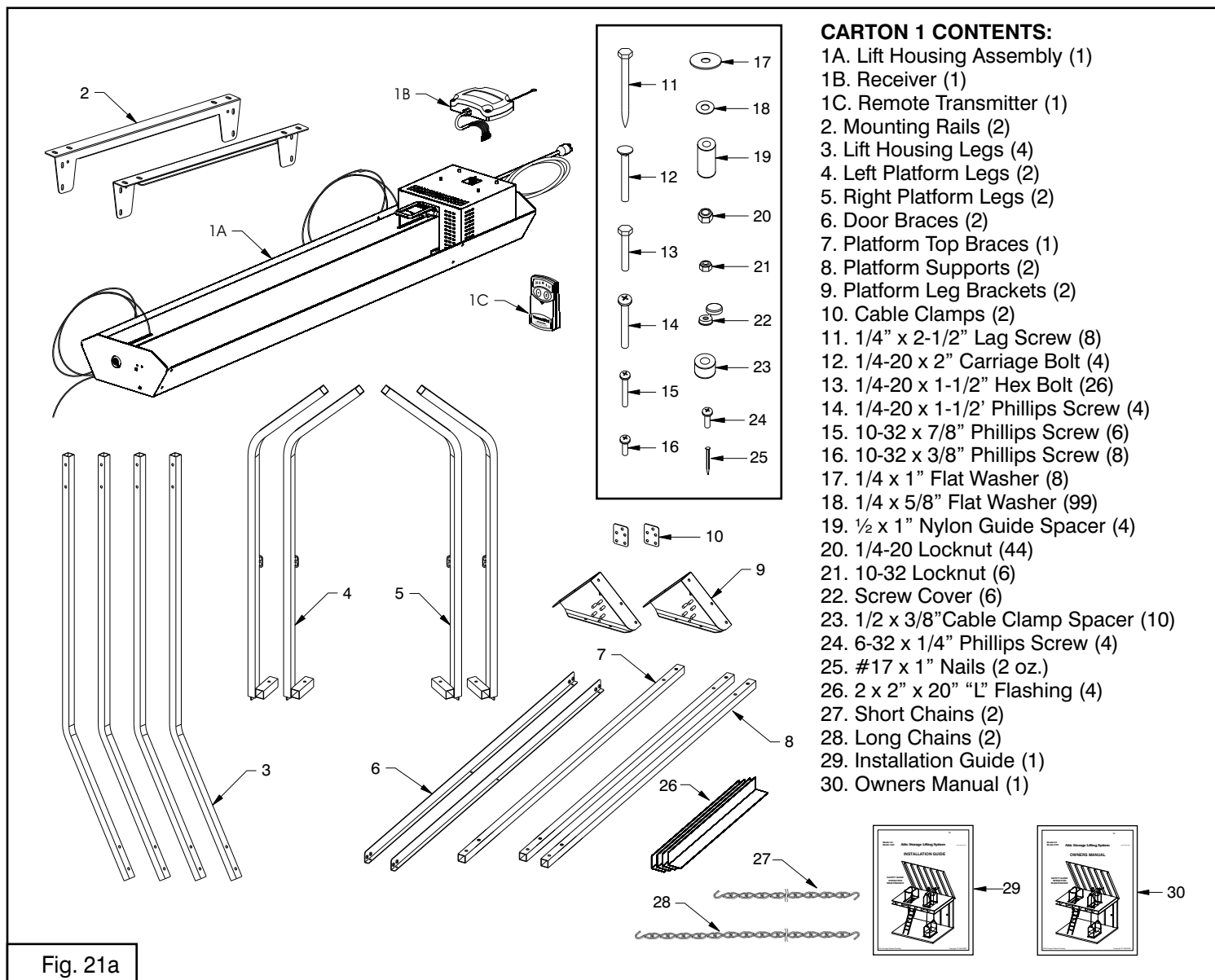


Fig. 21a

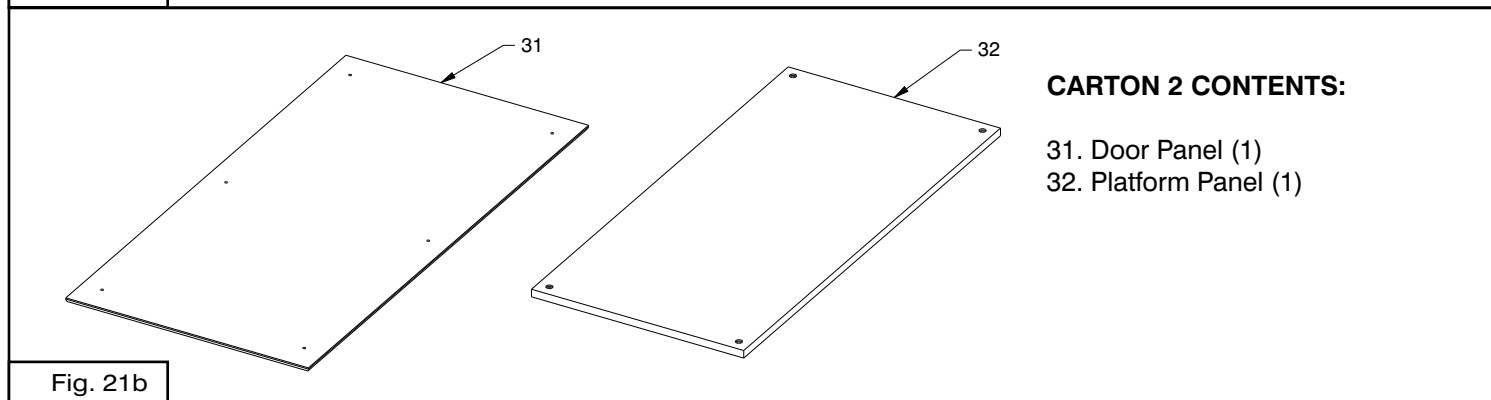


Fig. 21b

2a. RECEIVER INSTALLATION - (WIRELESS ONLY)

This step requires two persons. This assembly step should be done in the attic. Locate the parts shown below and move them up to the attic. The lift housing is heavy and requires 2 able persons to move it up to the attic. Place the lift housing on a rug or piece of cardboard open-side-up as show below in Fig. 22a.

Follow these steps:

2a-1. Remove the cover from the receiver by gently rotating the latches 1/4-turn counter-clockwise using a

flat-tip screwdriver (Fig. 22a inset).

2a-2. Connect the plug onto the 6-pin header visible thru the square hole in the motor housing. Orient the plug exactly as show below making sure to insert all six pins into the plug.

2a-3. Install the receiver to the motor housing using (4) 6-32 x 1/4" long screws as shown. (Note the antennae must extend off the rear of the motor housing.)

2a-4. Replace the cover onto the receiver by turning the latches 1/4-turn clockwise.

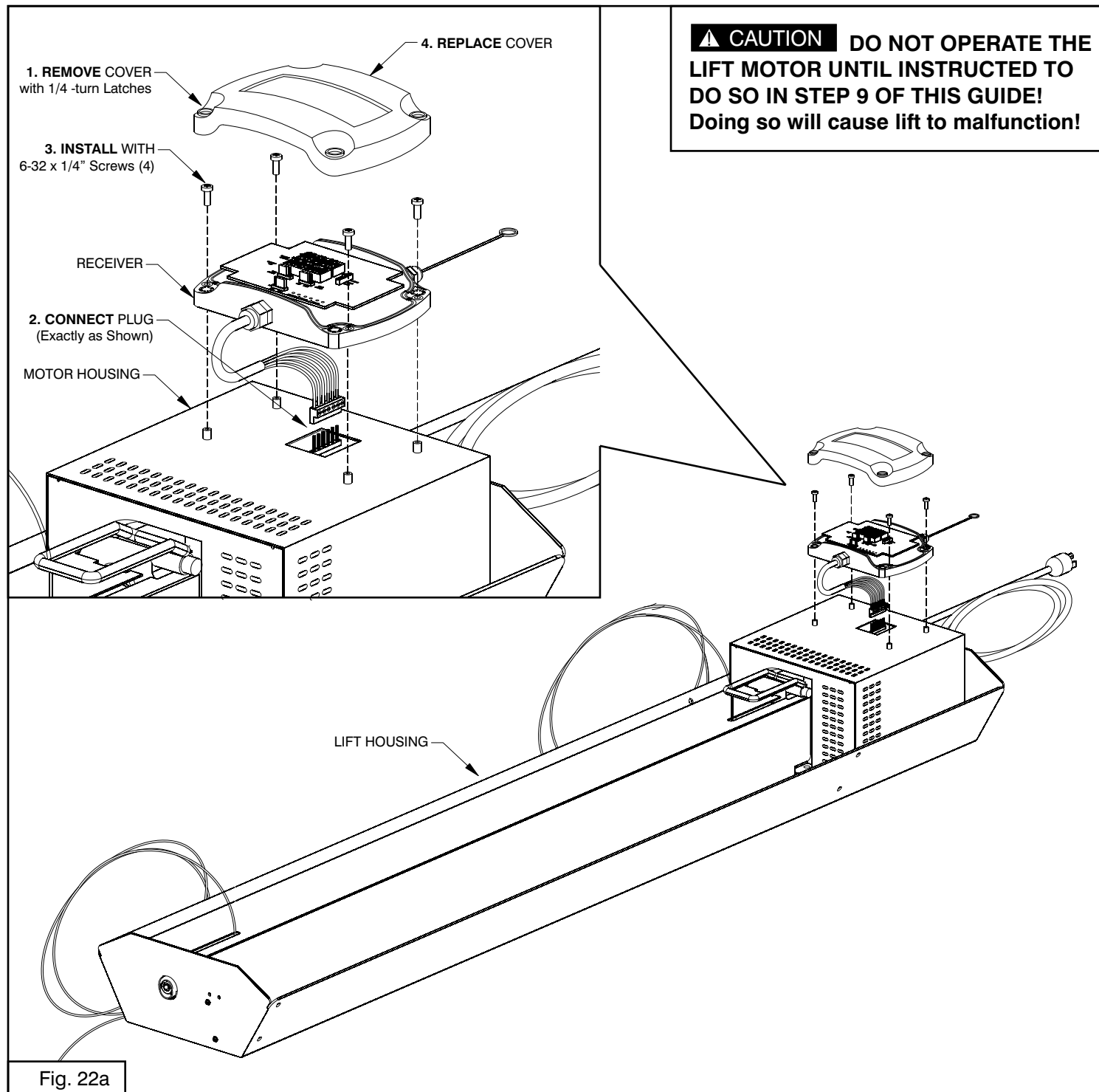


Fig. 22a

2b. LIFT HEAD ASSEMBLY - ALL MODELS

This step requires two persons. This assembly step should be done in the attic. Locate the parts shown below and move them up to the attic. The lift housing is heavy and requires 2 able persons to move it up to the attic. Place the lift housing on a rug or piece of cardboard open-side-up as show below.

Assemble the four lift housing legs to the lift housing (Fig. 22b Inset). **The locknuts provided will not work loose, so tighten the bolts and nuts firmly, but do not over-tighten or you will collapse the square tubing.**

Assemble the mounting rails to the lift housing legs (Fig. 22b) with bolts, washers and locknuts but do not tighten them yet. Leave them slightly loose for Step 4.

Note: The legs fit on the INSIDE of the lift housing.

⚠ CAUTION DO NOT OPERATE THE LIFT MOTOR UNTIL INSTRUCTED TO DO SO IN STEP 9 OF THIS GUIDE! Doing so will cause lift to malfunction!

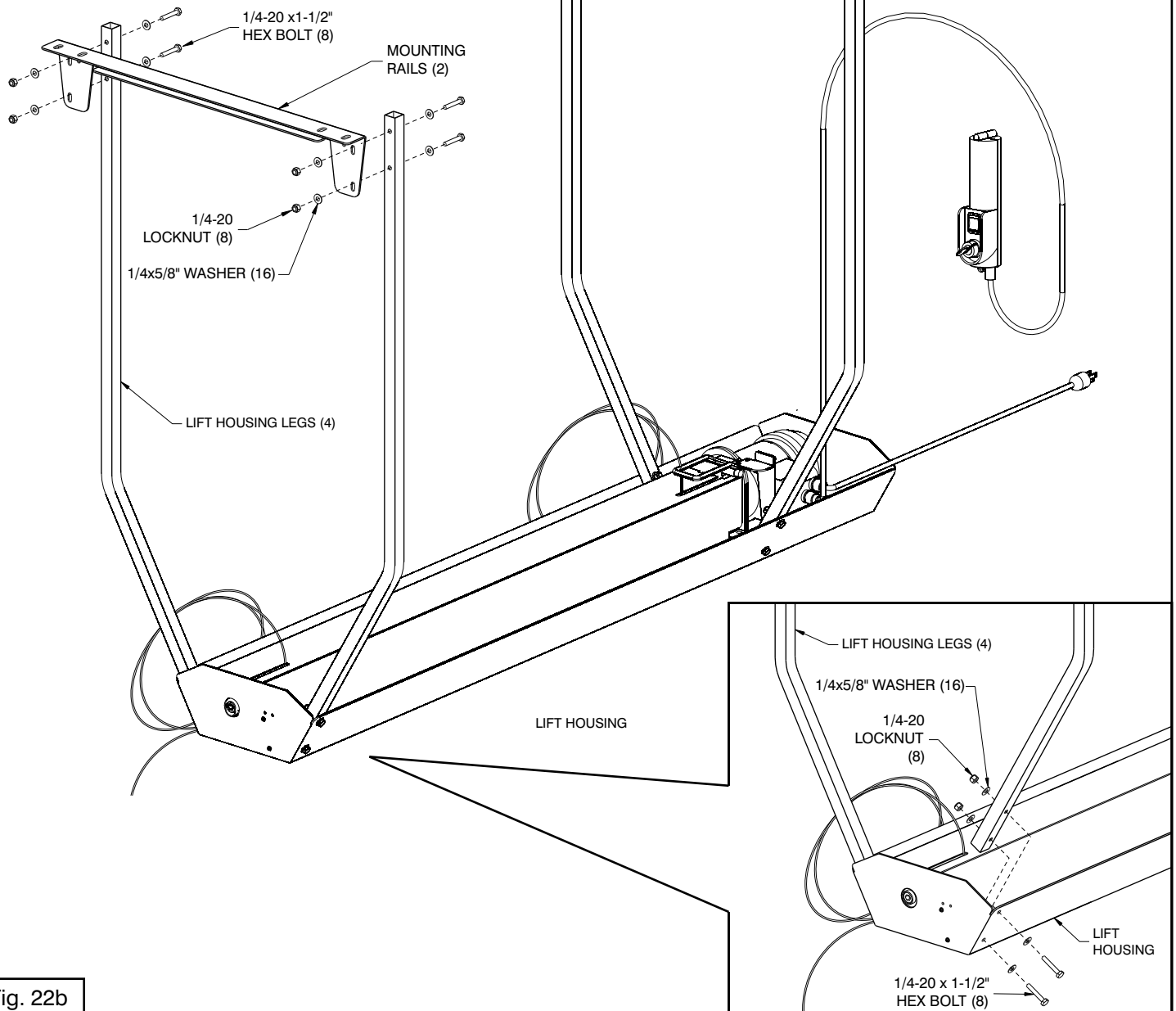


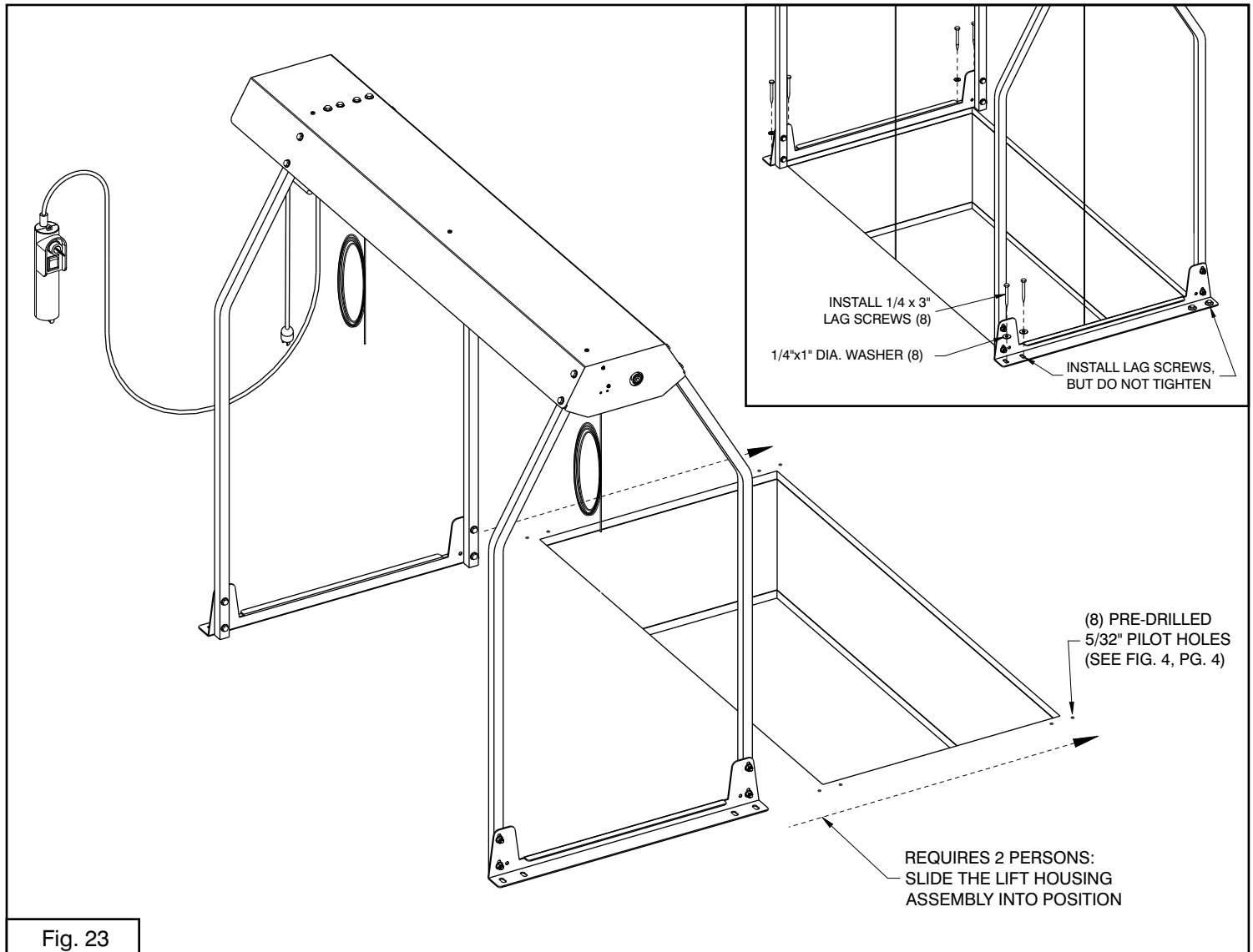
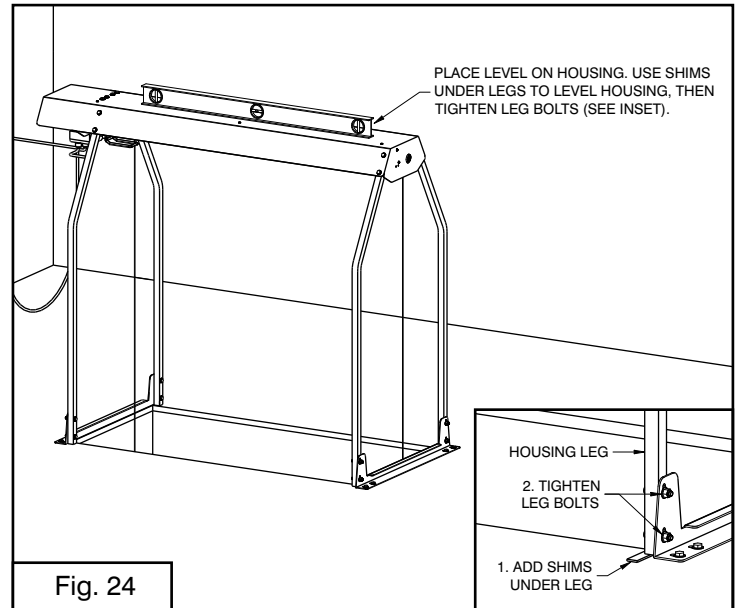
Fig. 22b

3. INSTALLING THE LIFT HEAD

This step requires two persons. Turn the lift head assembly upright and position it in front of the opening (Fig. 23). With one person on each end, lift slightly and move the assembly over the opening (Fig. 23) and align the slots in the mounting rails with the pilot holes in the decking. Install the 8 lag screws and 1" diameter washers into the pilot holes and screw them down until they almost contact the mounting rail, but leave them loose so the mounting rails can be adjusted later (Fig. 23 inset).

4. LEVEL THE LIFT HEAD

The bolts that hold the legs to the mounting rail must be loose for this step. Place a bubble level lengthwise on the housing and see if head is level (Fig. 24). Place shims under both legs on the low end (Fig. 24 inset). Adjust the shims until the head is level and then tighten all 8 leg bolts (Fig. 24 inset).



5. DOOR ASSEMBLY

The door must be assembled down-stairs. Locate the door, door braces, and fasteners shown in Fig. 25. Insert the screw through the screw cover then through the panel, then through the door brace (Fig. 25 and inset). and fasten with the locknut. Tighten all 6 screws,

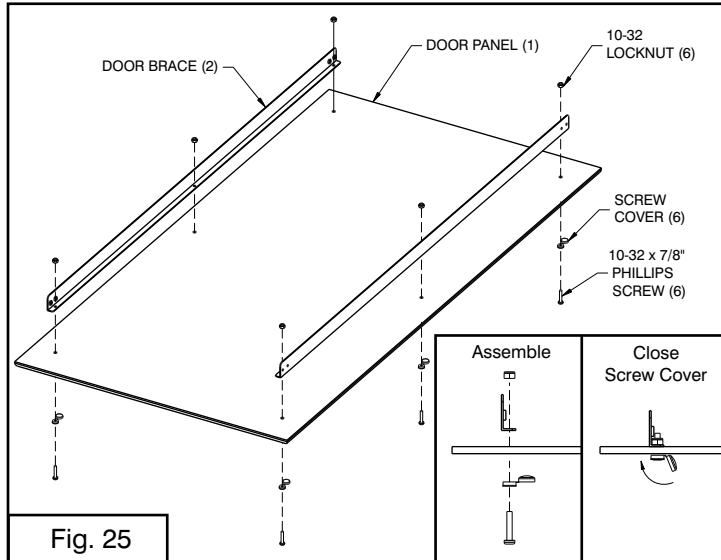


Fig. 25

then close the screw covers, Make sure they snap completely shut (Fig. 25 inset).

6. PLATFORM ASSEMBLY

The platform must be assembled down-stairs. Locate the platform, 2 platform supports, 4 platform legs, carriage bolts, washers, and locknuts (Fig. 26). Note that the top side of the platform has recessed holes. Insert the platform support into one of the left legs as shown (Fig. 26 inset). Align the hole in the leg with the hole in the outer end of the support. Next insert a carriage bolt down through the platform, leg and support (Fig. 26). Secure with a washer and locknut, but do not tighten until all four bolts are installed. When all legs are assembled as shown in Fig. 26, tighten all of the bolts and locknuts, but do not over-tighten or you will collapse the tubing.

Locate the platform leg brackets, platform top brace, and fasteners. Install each of the brackets with 4 bolts, washers, and locknuts (Fig. 27 inset). Tighten as above. Install the platform top brace with 2 bolts, washers and locknuts (Fig. 27) and tighten fasteners as above.

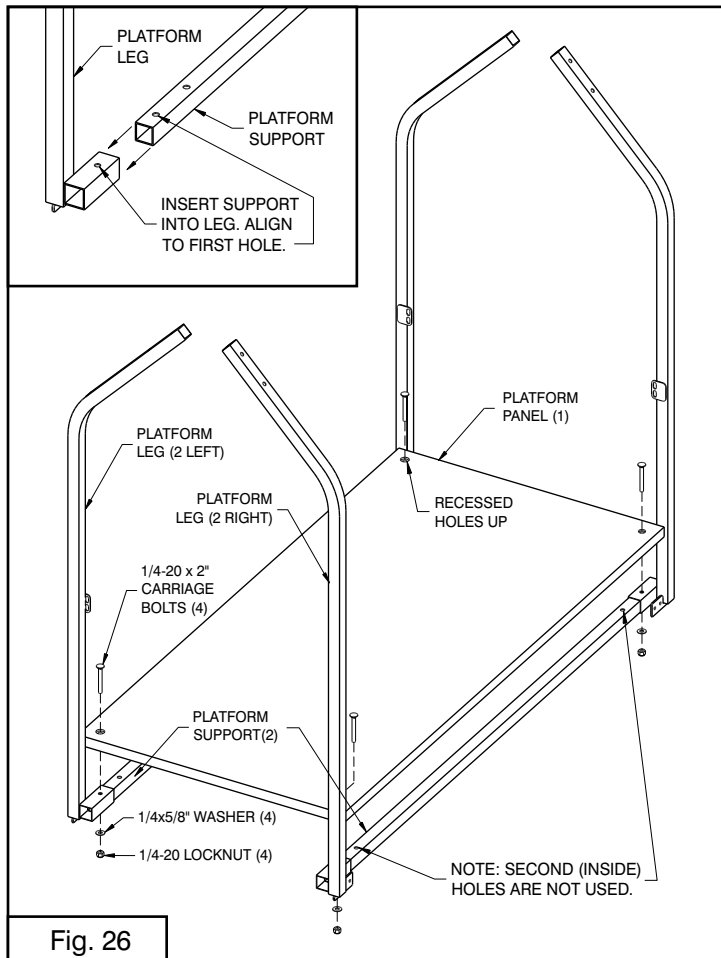


Fig. 26

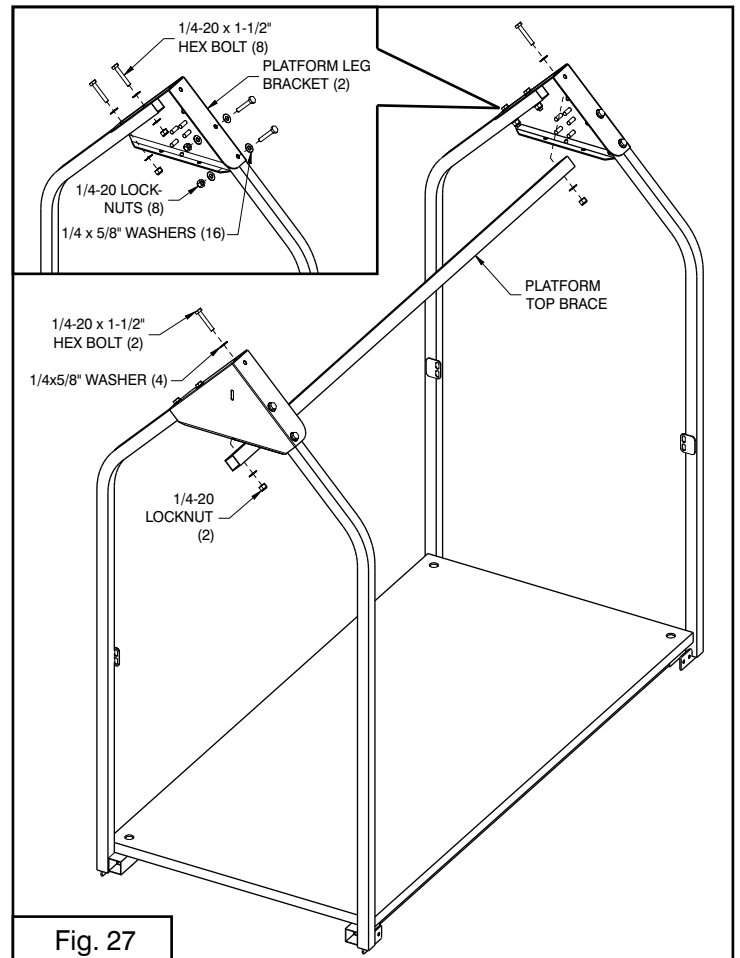


Fig. 27

7. DOOR AND PLATFORM ASSEMBLY

7-1. Locate the (8) 10-32 x 3/8" screws. Lift the platform assembly onto the door assembly (Fig. 28).

Note: The spring brackets on the end of the platform legs fit outside of the door braces (Fig. 28 inset).

7-2. Install and tighten the screws through the spring brackets and into the door braces.

7-3. Locate the short and long chains. The last link on each end of each chain is open to form a hook. Hook the end of each chain onto the chain brackets on each platform leg (Fig. 28 and inset). You can open the hook further with pliers, if needed, to make it easier to hook.

7-4. Close the hooks on both ends of the short chains so the chain is secured to the chain brackets. Close one hook on each long chain, leaving the other ends open for loading the platform.

Read the Owners Manual for complete information about using the chains and safety guidelines about loading the platform.

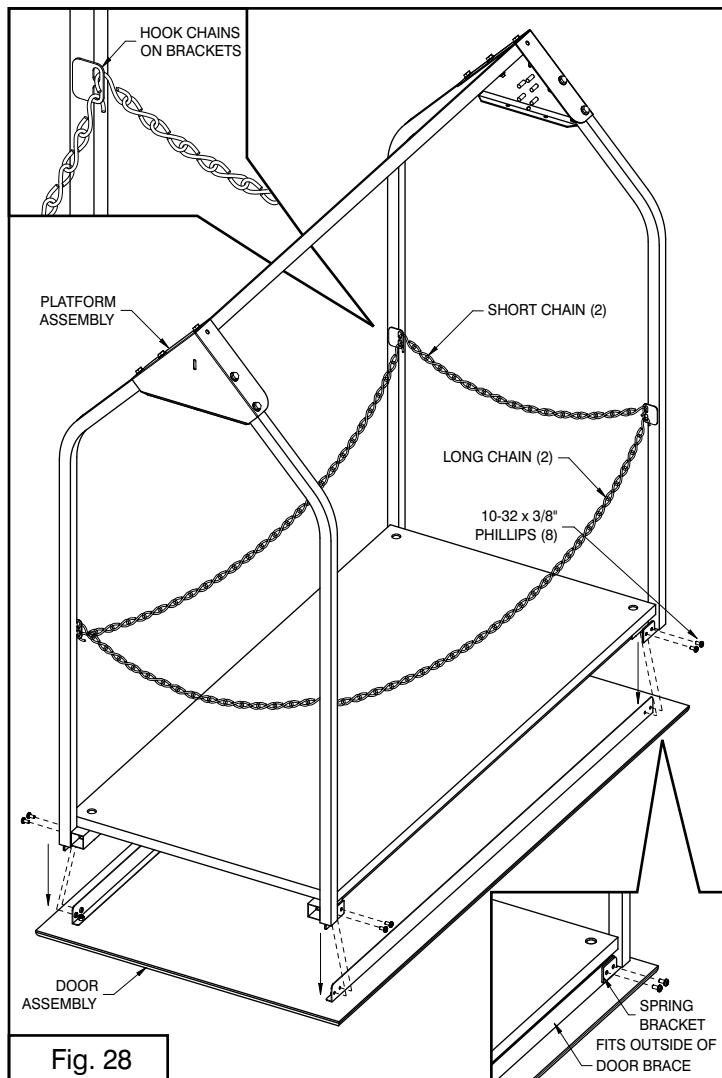


Fig. 28

8. CONNECT THE LIFT HEAD TO THE PLATFORM

8-1. Release the cables and let them hang down through the lift opening.

8-2. Position the lifting platform assembly on the floor directly below the lift opening (Fig. 29). (You can hang a plumb line from the corners of the lift opening to mark the garage floor below where the corners of the platform assembly should sit.)

8-3. Pass the ends of the cables through the slots in the platform leg brackets as shown in Fig. 30.

8-4. Pull the cable tight and wind it tightly around the threaded studs exactly as shown in the illustration. Wrap it as tightly as possible. Pinch the last loop around the last stud, then pass the end of the cable through the center hole in the bottom of the leg bracket (Fig. 30).

8-5a. Draw the cable tight by pulling firmly on the end of the cable (Fig. 30).

IMPORTANT: DO NOT USE A POWER TOOL TO INSTALL THE CABLE CLAMP NUTS. USE ONLY A WRENCH OR A SOCKET AND RATCHET!

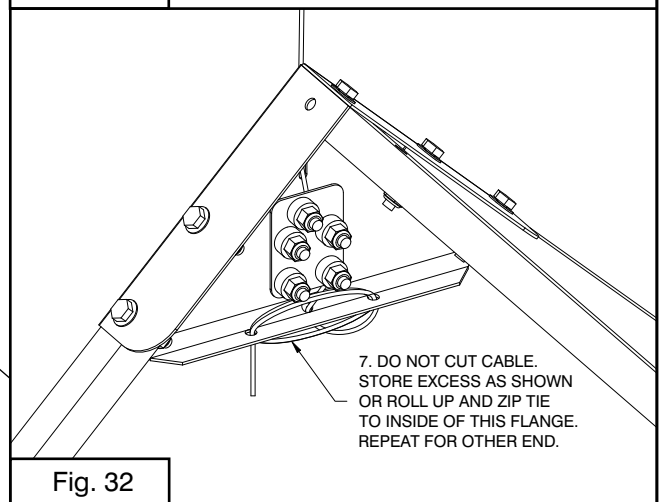
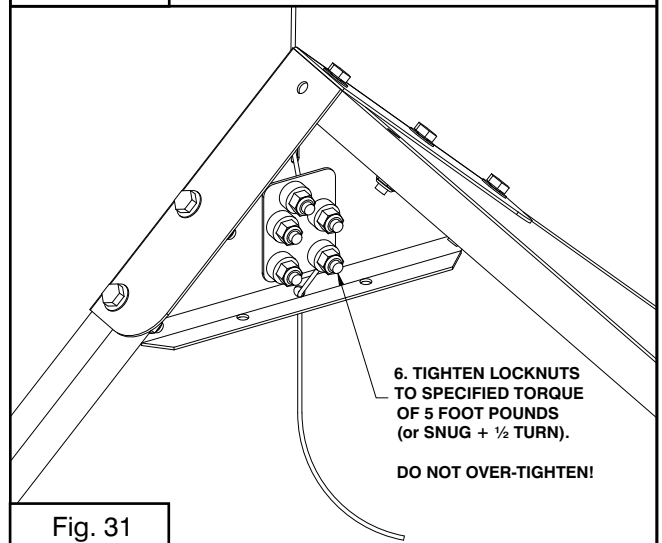
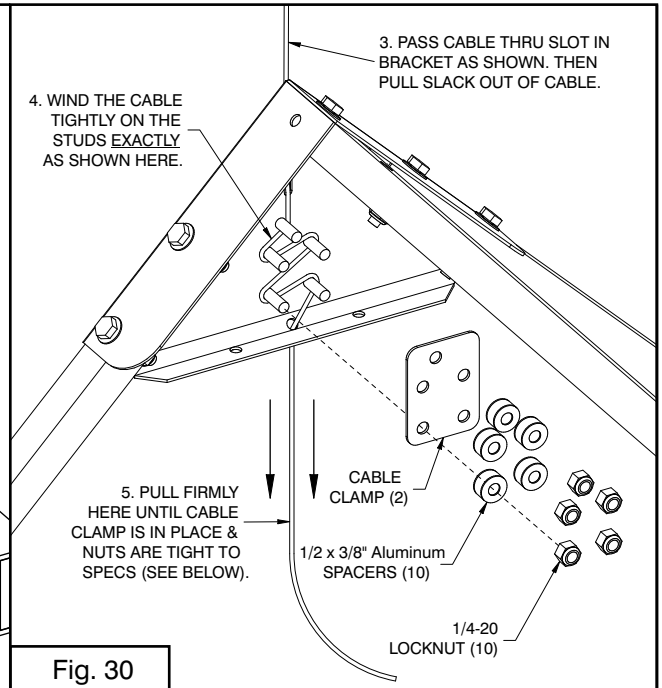
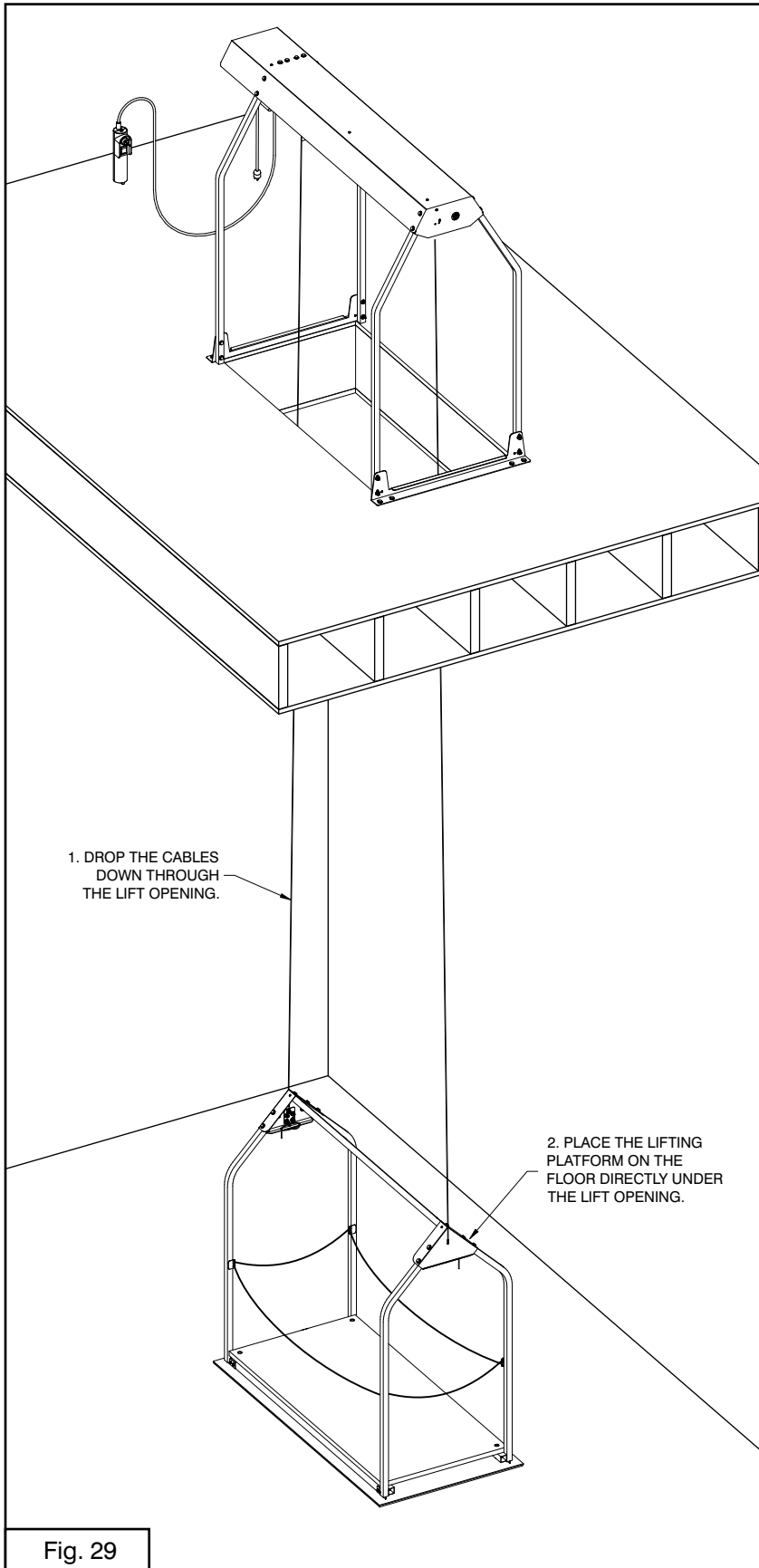
8-5b. While holding tension on the cable, install the cable clamp first, then install a 1/2 x 3/8 aluminum spacer and locknut on the last stud and snug it down to hold the cable, but don't tighten it yet (Fig. 30). Then install the rest of the aluminum spacers and locknuts and snug them down (*you can tell when the locknut is getting snug when it begins to turn a little harder and the aluminum spacer can't be turned with your fingers.*) Repeat this procedure for the second cable and apply the same tension (or slight slack) as with the first cable.

8-6. Torque all 10 locknuts to 5 foot pounds (60 inch pounds). **If you do not have a torque wrench, then snug all 10 locknuts as explained above, then turn each nut one-half turn (180 degrees) beyond snug (see Fig. 31). Do not over-tighten or you may break the studs off!**

8-7. You don't need to cut the excess cable, you can thread it through the two holes in the bottom of the leg bracket (Fig. 32) or you can wind it into a coil and zip tie it inside the bracket. If you do cut off the excess cable, you must leave at least a foot so that you can re-adjust the cable if it becomes necessary.

NOTE: It is important that the excess cable is secured where it can't get caught in the lift opening when the platform goes up or down.

IMPORTANT: DO NOT USE A POWER TOOL TO INSTALL THE CABLE CLAMP NUTS. USE ONLY A WRENCH OR A SOCKET AND RATCHET! THESE NUTS MUST BE TIGHTENED TO THE SPECIFIED TORQUE ONLY!



9. RAISE THE LIFTING PLATFORM

Before proceeding, review the first 8 steps to make sure you haven't missed any assembly steps. All of the bolts must be tight **except the lag screws** that hold the mounting rails to the deck. These must be loose enough that the rails can move freely the distance that the slotted holes allow. After reviewing steps 1-8, proceed as follows:

9-1. Make sure the corded remote and power cord hang freely from the rear of the lift motor and are not wrapped around the housing, the legs or the motor (Fig. 33).

9-2. Make sure the key switch (Standard) or the power switch (Wireless) is in the "OFF" position, then plug in the power cord (Fig. 33).

9-3. Stand clear of the lift mechanism and keep your hands clear too. Turn the key or power switch to "ON." Jog the "UP" direction switch (Fig. 33 insets) and watch as the platform comes up. When the platform nears the opening, jog (bump) the "UP" direction switch to move the platform in small increments, watching to make sure that it does not catch or bind on the opening. (If it hangs or binds, turn the key or power switch to off and unplug the power cord, then look to see what the problem is. Correct any problems before continuing the operation.)

9-4. When the platform reaches its upper limit, the upper limit switch will stop the motor and stop the platform.

Turn off the key or power switch and unplug the power cord before proceeding to the next step.

10. INSTALL THE PLATFORM GUIDE SPACERS

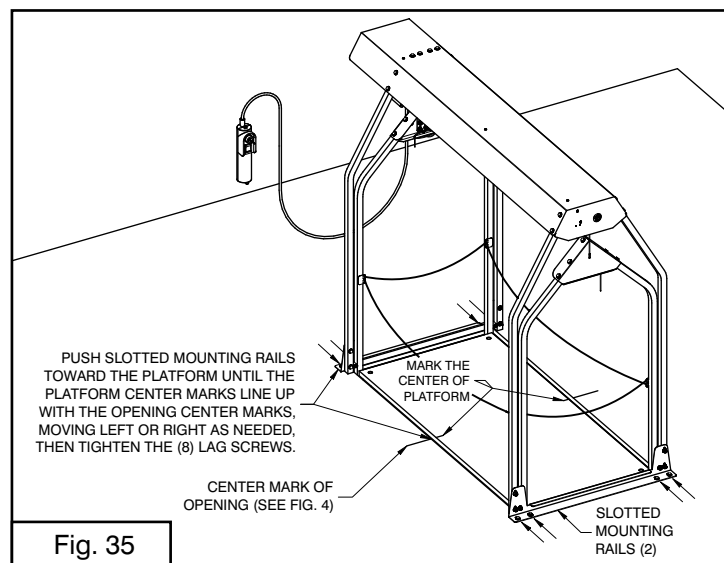
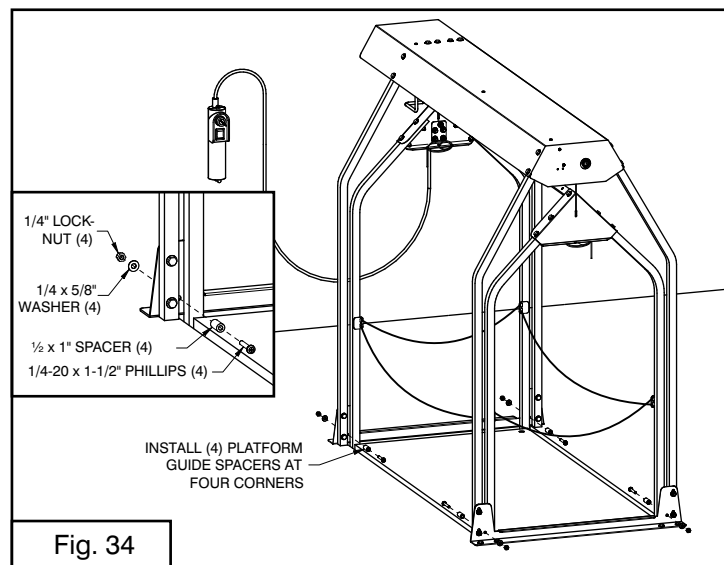
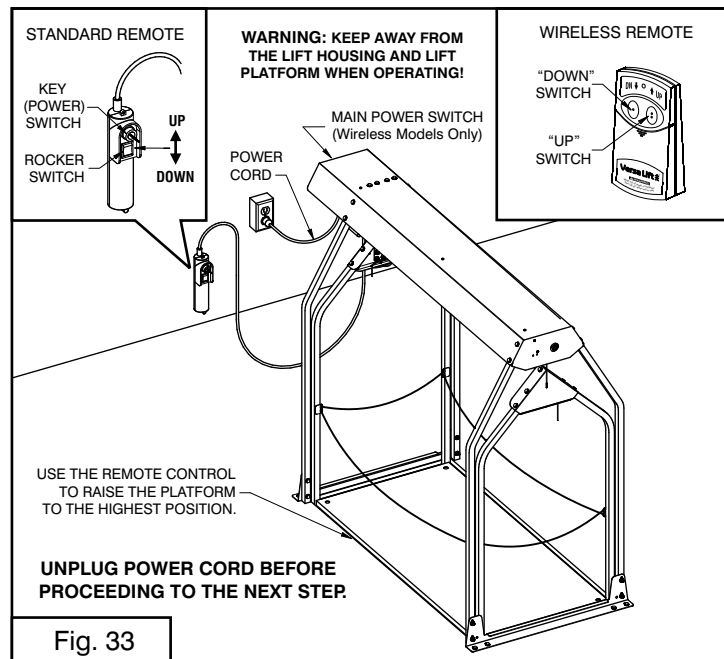
Locate the 4 screws, spacers, washers and locknuts shown in Fig. 34 inset. Install the spacer into the hole in the mounting rail between the housing legs and the platform legs. Tighten each screw firmly. These spacers guide the platform to the center of the opening in one direction, the mounting rails will guide the platform in the other direction.

11. ADJUST THE MOUNTING RAILS

Carefully measure 22" in from either end of the lifting platform and make a small mark perpendicular to the edge (Fig. 35). This is the center of the platform. The mounting rails are slotted so that they can be adjusted to guide the platform to the center of the opening where you made a center mark earlier, when preparing the opening (Fig. 4, Pg. 5). Push the mounting rails towards the center, moving the platform left or right until the center marks are aligned. **First**, tighten the lag screws firmly on the first mounting rail, but do not over-tighten them and strip the threads in the floor. **Second**, tighten the second mounting rail lag screws as above, but leave a little space between the mounting rail and the platform legs (note: a business card folded double makes a good gage).

Congratulations! Your installation is now complete!

Please read and understand the *Owners Manual* completely to learn important safety rules you need to know before operating this lift system!

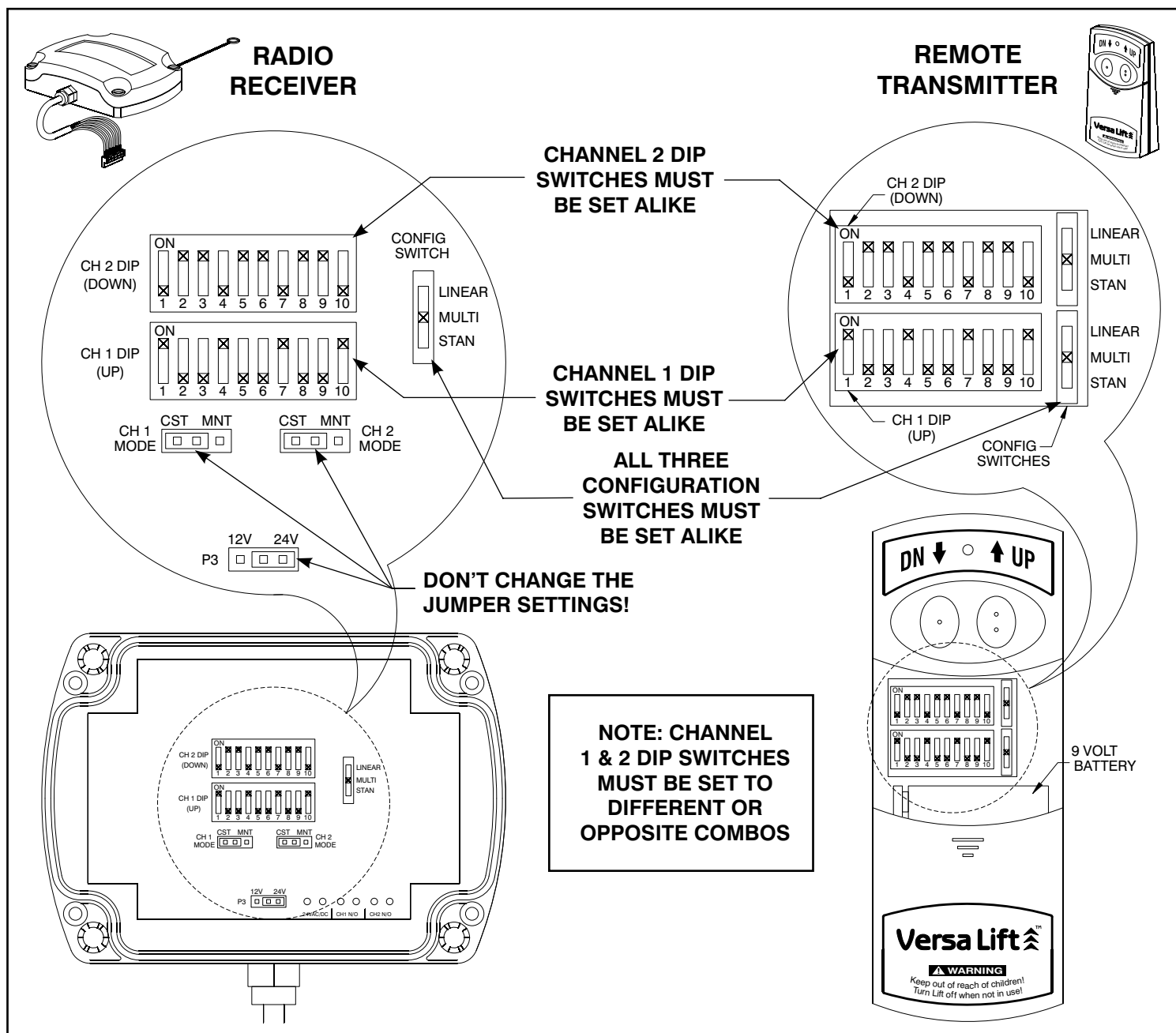


12. WIRELESS REMOTE SETTINGS & OPERATION

The wireless receiver and remote transmitter are pre-set at the factory to the codes and configurations shown below. A 9-volt battery will also be installed in the transmitter at the factory. If your transmitter fails to operate the lift, first make sure the lift power cord is plugged in and the power switch on the rear of the motor housing is turned ON and lighted. If the transmitter still fails to operate the lift, replace the battery with a fresh 9-volt battery. The indicator light at the top of the transmitter when either the up or down button is pushed and a signal is being transmitted. See the Owners Manual for details about operation of the remote transmitter.

13. CHANGING CODES & CONFIGURATION SETTINGS

Normally you will not need to change the factory settings unless someone within a block of you is operating a Versa Lift wireless model too or you are getting interference from some other radio frequency device, tower, or broadcasting station nearby. If so, first try changing the configuration switch settings on both devices to "LINEAR" or "STAN." This will most likely correct the problem. If not, you can change the codes on the dip switches (see below). Do not use these codes: All 10 positions ON; All 10 positions OFF; Alternating ON/OFF; Alternating OFF/ON. Use a random code combination and follow the rules below.



⚠ WARNING Read and understand the Owners Manual completely before operating this lift! There are IMPORTANT SAFETY FACTS THAT YOU MUST KNOW BEFORE USING THIS PRODUCT!

