

# INSTRUCTIONS

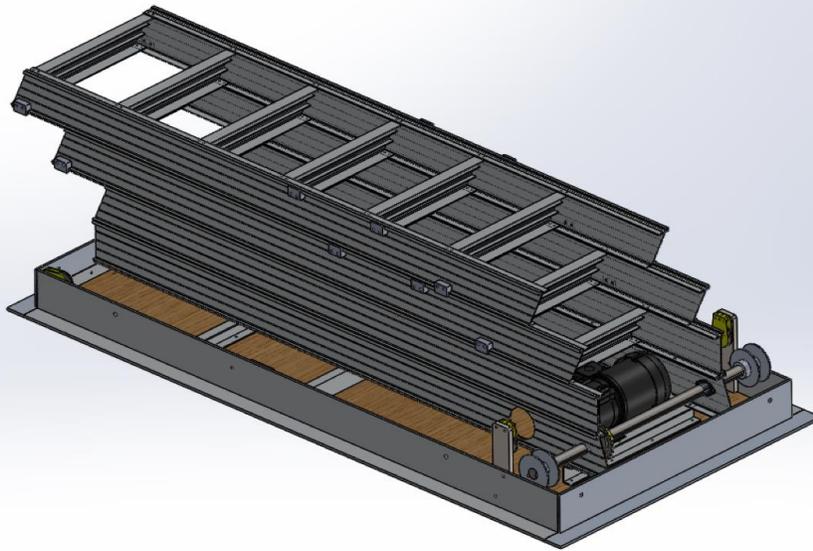
(Stairway equipped with ANG Gearmotor)

**eLAIR ENTERPRISES, LLC**

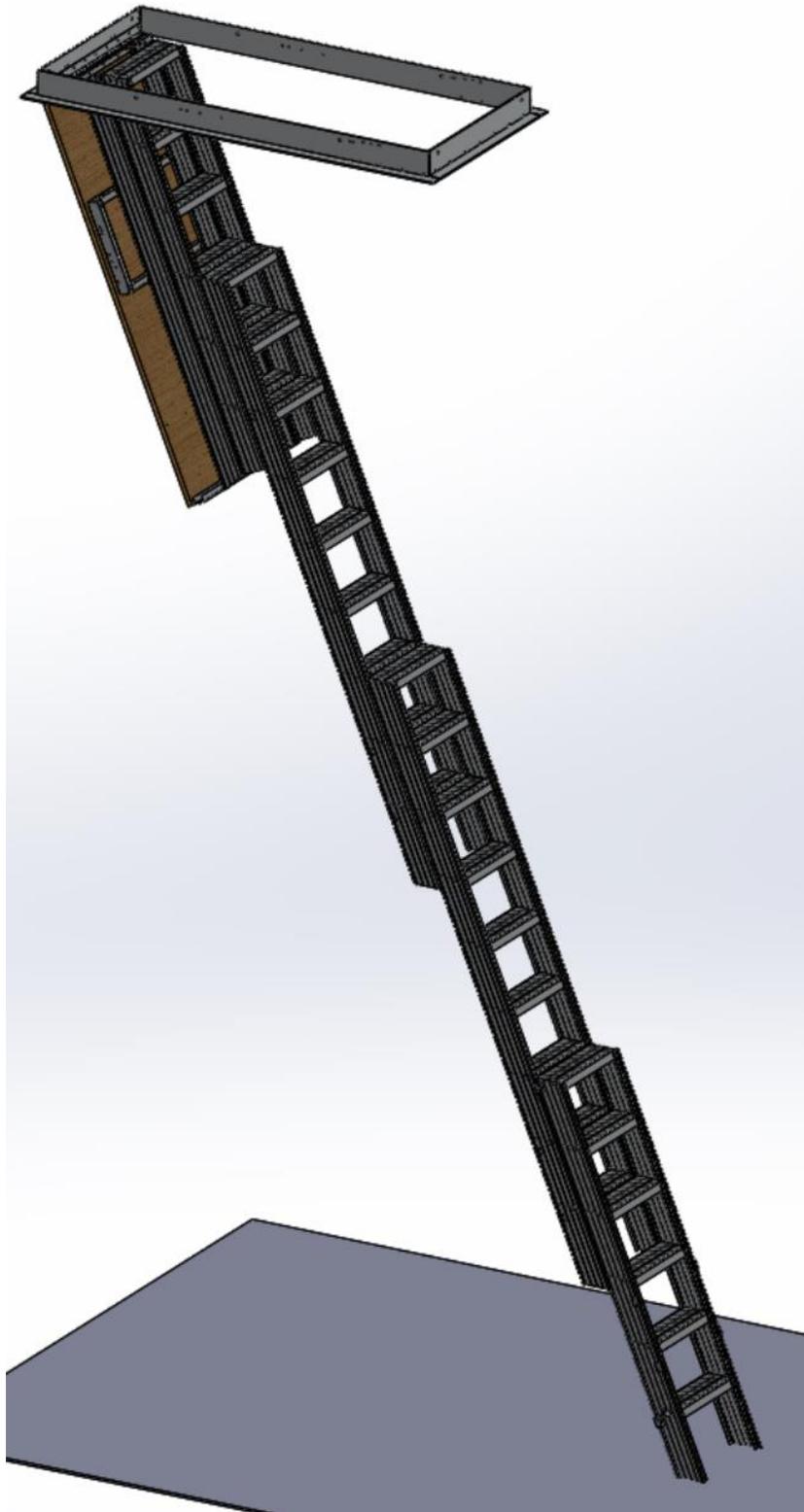
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**210-896-2877**

INSTRUCTIONS FOR PROPER INSTALLATION  
OF ONE-TOUCH ELECTRIC ATTIC STAIRWAY



ONE-TOUCH INSTALLATION INSTRUCTIONS



**WARNING**

DO NOT ATTEMPT TO OPERATE ONE-TOUCH BEFORE IT IS PROPERLY INSTALLED IN THE ROUGH OPENING. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN STRUCTURAL FAILURE OR COLLAPSE OF THE SYSTEM. NEVER MODIFY THE SYSTEM, OR DISASSEMBLE THE SYSTEM DURING INSTALLATION OR USE. DO NOT CLIMB OR PUT WEIGHT ON THE STAIRWAY UNTIL THE ALUMINUM FRAME INSTALLATION IS COMPLETELY SECURED TO THE CEILING STRUCTURE AND UNTIL THE STAIRWAY SHOES ARE INSTALLED AND PROPERLY ADJUSTED. CLIMBING OR LOADING ONE-TOUCH BEFORE COMPLETION OF COMPLETE INSTALLATION MAY CAUSE SIGNIFICANT INJURY AND/OR DAMAGE TO THE UNIT.

**WARNING**

**Nobody shall ever stand on One-Touch during its operation: extension or retraction. Use of One-Touch, i.e., climbing up or down, can only be done once it is fully extended with its shoes resting on the ground, the door hold-open arms fully opened and the electric motor operation stopped.**

Maximum load of this attic stairway, when fully extended, is **500 lb.**

## ONE-TOUCH INSTALLATION INSTRUCTIONS

### **WARNING**

**BEFORE INSTALLATION:** Verify that this product and its installation meet all applicable building codes. Verify that the intended area of installation is of sufficient strength to be used for a walking or working surface. When installed into a new building under construction, this should be verified by the architect or builder. For installation, it may be necessary to hire an architect or structural engineer to verify the load carrying capability of the upper structure. Inspect product carefully for shipping damage. Read the complete instruction manual before attempting to install this attic stairway. Keep the manual and parts list with the installed stairway.

### **IMPORTANT ISSUES TO CONSIDER**

Please read carefully all instructions before starting the installation of One-Touch. The installer should have experience with squaring, leveling, sawing, and aligning structural supports before attempting to install this product. Improper installation could result in the stairway malfunctioning and possible bodily injury. Please see **warning label** on inside of stairway.

Verify that you have selected the proper size stairway for the ceiling height. Ensure that the ceiling height is in the range described on the packaging.

Verify that the duty rating of the stairway is correct. One-Touch is not designed for heavy traffic or frequent opening and closing: **number of operating cycles shall not exceed five (5) per hour with approximately 12 minutes interval between each cycle. A cycle is defined as one extension and one retraction of One-Touch.**

Positioning the opening for the installation of One-Touch: Take into account the projection of the stairway, the position of the rafters in the ceiling, and the need to have adequate space at the top and bottom of the stairway to get on and off. Ensure that you will have sufficient head clearance when entering the storage area. **WARNING:** Note the location of nearby electrical wiring and be sure not to cut or pinch any wires.

If the home has roof trusses, do not cut the ceiling joists without consulting with an engineer and/or an architect and/or proper experts.

One-Touch shall not be used to climb before being securely and permanently installed on the rough opening of the ceiling structure and before its shoes are installed.

The electric cable of One-Touch shall not be connected to the GFCI electric outlet until One-Touch is securely and permanently installed on the ceiling structure.

Improper installation of this fully automatic retractable attic stairway could put undue stress on some of its components and could result in the failure of One-Touch and could cause serious bodily injury.

## ONE-TOUCH INSTALLATION INSTRUCTIONS

### LIMITED ONE YEAR WARRANTY

**One-Touch by eLAIR ENTERPRISES, LLC, manufactured by Son Lan Industries, is warranted to be free from defects in material and workmanship, when installed per instructions, under normal use and service, for 1-year from the date of delivery to the original purchaser. Our obligation under this warranty is limited to replacing or repairing at The Son Lan Industries in Waxahachie, Texas, any part or parts returned to us with transportation charges prepaid, which our examination discloses, to our satisfaction, to have been thus defective. This warranty is in lieu of all other warranties, expressed or implied, and of all other obligations or liabilities on our part. eLAIR ENTERPRISES, LLC'S LIABILITY SHALL BE LIMITED TO THE WRITTEN WARRANTIES SPECIFIED HEREIN. eLAIR ENTERPRISES, LLC DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE. We do not assume, nor authorize any other person to assume for us, any other obligation or liability in connection with the sale or use of One-Touch. This warranty shall not apply to any part or parts which have been altered or repaired outside of Son Lan Industries nor to parts which have been subjected to misuse, abuse, neglect, accident or damage caused by overloading, over operating, or to One-Touch where improperly applied or installed. An improper installation or application, or any substitution of parts not manufactured by Son Lan Industries, shall void this warranty. We make no guarantee as to normal wear and tear, nor shall we be liable for loss of time to the user while the product is out of commission, nor for any labor or other expense, damage or loss occasioned, or claimed to be occasioned, by such defective parts.**

### KEY CHARACTERISTICS OF ONE-TOUCH

**One-Touch** is a fully automatic stairway that gives access to your attic space. Its supporting structure is mechanically attached to the ceiling support structure. It is fully concealed within the attic space when it is fully retracted and the gear motor brake engaged. It can take two positions: 1) Panel closed with gear motor brake engaged: One-Touch is fully retracted and 2) Panel opened: One-Touch is ready for extension. Sequences of Disengagement of the GearMotor brake, Extending, Retracting and Re-engagement of the motor brake are fully automatic and controlled via a toggle switch or via a remote. In case of electrical outage, it is possible to wirelessly release the motor brake: gravity will drive the panel toward its opened position. Retraction of One-Touch to its fully Up position can only be performed electrically.

### INSTALLATION INSTRUCTIONS FOR ONE-TOUCH **READ INSTRUCTIONS AND WARNINGS COMPLETELY BEFORE STARTING**

**One-Touch** is fully assembled and ready for installation. One-Touch shall not be dismantled for installation. One-Touch electric cable shall not be plugged to the electric circuit of the house until One-Touch is securely and permanently installed on the ceiling structure.

### REQUIRED MANPOWER, TOOLS AND MATERIALS

#### Manpower

- One (1) to (4) PEOPLE are recommended for installing One-Touch to the rough opening of the ceiling.

## ONE-TOUCH INSTALLATION INSTRUCTIONS

- One (1) electrician is required for providing the necessary **electric outlet 110/120 VAC, Nema 5-15R on a GFCI protected circuit resettable from a room below**.

### Materials

- Pieces of joist-sized lumber
- Wood boards for temporary support
- Wood shim stock
- Screws for wood
- Wood boards to serve as working platform in the attic
- Wood beams to support the raising of One-Touch to the ceiling
- Wood boards to support One-Touch on the ground

### Tools

- Step ladders: two (2) are recommended. Ensure that they are long enough to enter the overhead space and that they are rated to withstand the user's weight, that of One-Touch and any required tools (refer to notice labels on step ladder for safety information and load capacity).

**WARNING:** Be extremely cautious while climbing the step ladder. Ensure that another person is holding the step ladder to prevent it from tipping over.

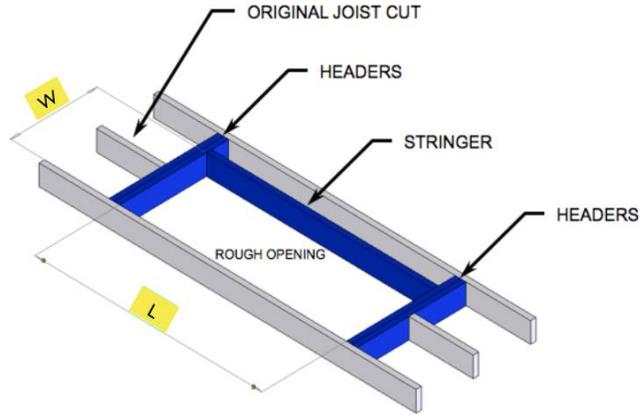
- Hammer
- Adjustable wrench
- Tape measure
- Framing square
- Saw for aluminum material
- Saw for wood material
- Power Drill
- Drill bits
- Tools to cut the opening in the ceiling
- Structural Lag screws
- Nylon ropes of sufficient length for raising One-Touch to the ceiling
- Strapping material
- Lifting tool "PanelLift" or similar like Drywall Lift (must be able to tilt)
- A toggle switch
- Wiring to switches
- Shims to be located near of the 8 lag screws locations

### Safety equipment

- Gloves
- Safety goggles
- Dust mask

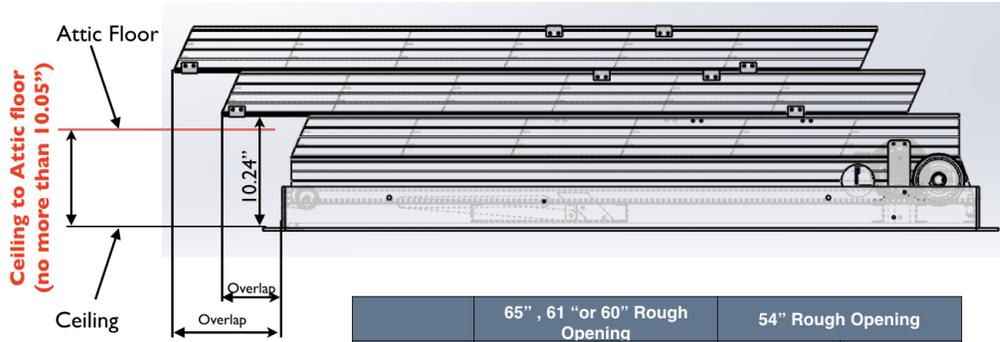
### One-Touch Models - Table 1

## ONE-TOUCH INSTALLATION INSTRUCTIONS



Rough Opening Dimensions in ceiling (inches)		Internal Dimensions of One-Touch Aluminum frame (inches)	
W	L	Width	Length
23.0	54, 60, 61 or 65	21.5	52.5, 58, 59.5 or 63
25.5	54, 60, 61 or 65	24.0	52.5, 58, 59.5 or 63
30.5	54, 60, 61 or 65	29.0	52.5, 58, 59.5 or 63

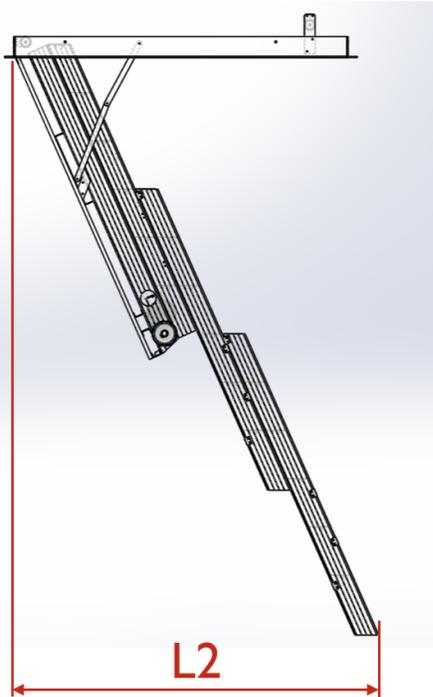
## ONE-TOUCH INSTALLATION INSTRUCTIONS



Above picture is generic. It shows 2 sliding sections of 6 steps each whereas the Stairway might have 3 sliding sections of 5 to 9 steps each. The resulting overlap of each section will therefore vary.

Ceiling Height (ft)	65" , 61 "or 60" Rough Opening		54" Rough Opening	
	Overlap (in)	Required ceiling Clearance for panel rotation (in)	Overlap (in)	Required ceiling Clearance for panel rotation (in)
8 - 10	0-36	23-42	0-27	23-32
10 - 12	0-36	23-43	0-27	23-32
12 - 14	0-36	23-43	N/A	N/A
14 -16	0-36	23-43	N/A	N/A

**NOTE:** For a given ceiling height, the Overlap of each sliding section is dependent of the number of steps for each section. One-Touch can also be configured for installation where the height of ceiling to attic floor is greater than 10.05": **Customer/Contractor needs to provide that height and information on allowed overlap for proper configuration of One-Touch.**



**NOTE:** The L2 values in the table below are for information only. Depending of the final Stairway configuration the value of L2 can be decreased or increased for any ceiling height.

Ceiling Height (ft)	L2 (in)
8 - 10	63 - 74
10 - 12	74 - 89
12 - 14	89 - 100
14 -16	100 - 111

## ONE-TOUCH INSTALLATION INSTRUCTIONS

### INSTALLATION INSTRUCTIONS

1. Place two pieces of wood of at least 18.5” long on the floor.
2. Remove One-Touch from its packaging and place it flat on the two pieces of wood.
3. Cut the rough opening for One-Touch model selected per dimensions of table 1. Pending of model purchased by customer, width of rough opening can be 23”, 25.5” or 30.5”. Add headers in the front and rear of the opening, and attach a second joist, if necessary. The dimensions listed should be the final size of the opening, which will leave a slight amount of room between the aluminum frame and the opening for ease of installation, and shimming to ensure squareness. In most cases, stairways are installed parallel to ceiling joists. However, in some cases, the stairway must be installed perpendicular to the ceiling joist **CAUTION: If your home uses roof trusses, do not cut ceiling joists without engineering and/or architectural consultation and approval. If it is necessary to cut the ceiling joists or trusses, nail or screw these cut members to other joists or trusses forming a four-sided frame or stairwell to install the stairway. Keep corners square to simplify installation. Installation parallel to existing joists normally requires only single joists and headers. However, double headers are recommended. Installation perpendicular to the joists normally requires double headers and joists. Make new ceiling joists and headers sections from the same size lumber as the existing joists. When making double headers, fasten members together with 10d common nails. The double joist sections must be long enough to be supported by a load bearing wall at both ends. If it is necessary to cut ceiling joists, then it is recommended to brace the area below with heavy timbers to prevent the ceiling from sagging.**

### Recommended Method of Installation

1. Place One-Touch on the 2 arms of a lift like “PanelLift” or similar, or a winch. The lift used needs to have tilting capability. In order to prevent scratches of One-Touch frame and panel, place protective material such as foam or carpet between the lift and one-Touch.



2. Position One-Touch underneath the ceiling rough opening.
3. Position one person in the attic and 3 persons in the room where One-Touch is to be installed.
4. The persons in the room operate “PanelLift” or a similar tool to raise One-Touch to the ceiling. The overhanging portion of One-Touch will need to be inserted first into the ceiling rough

## ONE-TOUCH INSTALLATION INSTRUCTIONS

opening. This can be achieved by using the tilting capability of the lift. **WARNING:** Ensure during the tilting process that One-Touch will not slide off.



5. Once the overhanging portion of One-Touch is inserted into the opening, the operator of the tool can continue to raise One-Touch until its supporting structure is resting against the ceiling.



6. One-Touch is now temporarily supported. This is only for temporary support and **NOBODY SHOULD STAND** on One-Touch at this point of the installation.
7. The person in the attic shall screw One-Touch aluminum supporting structure to the joists, stringers and headers through the eight (8) holes provided in the aluminum frame sides (2 holes per side). **As some Lag screws might be difficult to install, it may be necessary to install 4 Lag screws first then extend the ladder to install the 4 remaining ones.** Lag screws of dimension 3/8 diameter, 3 inches long shall be used. Centering of One-Touch aluminum frame within the ceiling opening should be correctly done by inserting appropriate shims between One-Touch Aluminum frame and the joists stringers and headers of the opening. It is recommended to shim nearby the area where the lag screws will be inserted, and not to shim

## ONE-TOUCH INSTALLATION INSTRUCTIONS

along the complete length and width of the Aluminum frame. Shimming along the complete length or width of the Aluminum frame will make the centering of One-Touch assembly within the joists more difficult. This step should be performed **PRIOR** to tightening of the lag screws. So that the pivoting panel remains centered in the opening of One-Touch Aluminum supporting frame, it is recommended to only torque the lag screws until their heads gently “kiss contact” with the aluminum frame. No more torque should be applied.



8. One-Touch is now permanently attached to the ceiling support structure.
9. The person in the attic removes the plastic strap that are strapping One-Touch section ladders.
10. The person in the attic shall now **reconnect the paracord cables quick release on each side of the Stairway to the eye bolt of the tow bar.**
11. The person in the attic shall cut/remove the 2 straps that are temporarily securing the panel to the aluminum frame **BUT NOT BEFORE COMPLETION OF STEP 10.**
12. At this stage, the lift supporting One-Touch can be removed or the winch disconnected.
13. The person in the attic can now connect the Stairway electric cord to the GFCI outlet in the attic and use the toggle switch on the stairway frame to extend the stairway. It is also possible to use the remote for releasing of the brake. In case of only releasing electrically the brake (via the remote), then gravity force will drive the panel toward a partially opened position and maybe some of the sliding sections toward their down position. It may be required to manually pull down the panel to its fully opened position and some of the sections to their fully down position.
14. One-Touch is now fully extended.
15. **DO NOT CLIMB ONE-TOUCH OR PLACE WEIGHT ON IT UNTIL ONE-TOUCH LENGTH IS FULLY ADJUSTED, FOOT SUPPORTS ARE INSTALLED AND ONE-TOUCH INSTALLATION IS COMPLETE.**

## ELECTRICAL REQUIREMENTS

1. An approved professional electrician shall install in the attic one **electric outlet 110/120 VAC, Nema 5-15R on a GFCI protected circuit resettable from a room below.** The electric plug shall be located on the side the Stairway piano hinge. The electric motor is fitted with about 6ft long electric cable. For the case where the electric outlet is located

## ONE-TOUCH INSTALLATION INSTRUCTIONS

further than 6 ft. away from the junction box (left side on the stairway frame), then a certified electrician may have to extend One-Touch electric cord (**an electric extension cord shall never be used**). The electrical outlet shall not be mounted on the Aluminum frame structure of One-Touch.

2. **IT IS MANDATORY THAT A 2<sup>nd</sup> TOGGLE SWITCH BE INSTALLED IN THE ROOM BELOW** while the other one is already attached to the Stairway frame by the stairway manufacturer. The two toggle switches are wired in parallel.

## ONE-TOUCH CONTROL OVERVIEW

### Overview and Operator Interface

The One-Touch control is through a 3 positions toggle switch: UP - NEUTRAL - DOWN. The UP or DOWN positions are spring loaded to return to NEUTRAL when the UP or Down are released.

In the Neutral position, the GearMotor is de-energized and the motor brake is engaged.

When holding the toggle switch in its UP position, the GearMotor is energized to drive One-Touch to its fully UP position. At such point, the brake is engaged, the motor is de-energized and One-Touch is resting up flush with the ceiling. The toggle switch returns to NEUTRAL when released.

When holding the toggle switch in its DOWN position, the brake is disengaged, the motor energized and One-Touch travels to its down position. When fully extended, release the toggle switch so that it returns to its Neutral position, the motor is then de-energized and the brake engaged

### Electrical

A battery backup, for installation in the attic, is provided with the stairway. Refer to the separate instructions of the battery (in the battery box) for operation.

One-Touch is fitted with a junction box fastened to the its aluminum frame in the vicinity of the panel hinge, left hand side when climbing the stairway. Coming out of the junction box is one black electrical cable of about 6ft long and one brown cable of 25ft long **for the 2nd Toggle Switch in the room below**. The stairway black cable is for plugging to the provided battery backup (battery +Surge) while the cable of the battery backup is plugged to an electrical outlet 115-120 VAC **on a GFCI protected circuit resettable from a room below**. The brown cable is for wiring the 2nd Toggle switch in the room below. The toggle switch fitted on the stairway is already electrically connected so that opening and extension of One-Touch is made easy at installation.

### Toggle Switch

The toggle is a DPDT (Double Pole, Double Throw) switch. One is installed on the stairway frame by the manufacturer the 2<sup>nd</sup> one needs to be installed in the room below by an electrician. Although One-Touch allows for any number of toggle switches (Reference 1091-1032-ND from Digi-Key) **a 2<sup>nd</sup> toggle switch is required**. Each toggle switch will start One-Touch travelling motion.

### Basic operation

At delivery, One-Touch is retracted and the GearMotor brake is engaged. One-Touch is also restrained in its up position to its supporting frame via two short cord straps. **Do not power the**

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**Stairway or cut the two short cord straps until the quick releases at each end of the Paracord cables are connected to their respective eyebolts on the Tow bar.** When One-Touch is secured on the ceiling and its circuitry plugged to the power source, holding the toggle switch to UP will not drive One-Touch UP because One-Touch being fully UP, the GearMotor cannot be energized. Holding the Toggle switch to Down will drive One-Touch towards its fully extended position. Once fully extended, releasing the toggle switch will return it to Neutral and the motor de-energizes. The Stairway is only operating on the battery backup in case of power outage.

If One-Touch is down and home has a power outage, the battery backup takes over. Holding the toggle switch to UP will drive One-Touch towards its UP position.

If One-Touch is up and home has a power outage, the battery backup takes over. One-Touch remains UP as the brake is engaged. Holding the toggle switch to Down will disengage the brake and drive One-Touch towards its fully extended position.

### **OPERATION OF ONE-TOUCH TO ITS DOWN POSITION IMMEDIATELY AFTER INSTALLATION IN THE ROUGH OPENING**

Initial position of One-Touch: Retracted but the two Paracord cables not attached to the eyebolts of the tow bar. Panel secured to stairway frame via the two short cord straps.

1. The person in the attic shall slide all of the sliding sections towards the panel hinge until said sliding sections meet with their associated retraction stops.
2. Attach the quick releases (one per side of One-Touch) to the eye-bolts of the tow bar.
3. Remove the two short cord straps.
4. Plug the stairway black cable to the battery backup (battery+surge) then the battery cable to the 110-120 VAC power outlet which is **on a GFCI protected circuit resettable from a room below**, then position and hold down the toggle switch on the Junction box fitted to the Stairway frame: One Touch panel opens then the sliding sections extend.
5. When fully extended proceed to installation procedure of the landing shoes as explained further after.

### **SECURING THE POWER CABLE AND THE BROWN CABLE (about 25ft) TO THE ROUGH OPENING**

The black cable that comes out of the junction box is the Stairway power cable. It needs to be connected to the battery backup and the cable of the battery to a 110/125 VAC outlet in the attic that is **on a GFCI protected circuit resettable from a room below**.

1. The brown wire harness of the Toggle Switch in the room below is already wired to the Toggle Switch on the stairway frame. Ensure that the securing cavaliers for the brown harness to the attic structure are not damaging any of the harness wires as short circuit may result.

### **RUNNING 2nd TOGGLE SWITCH CABLE TO THE ROOM BELOW**

1. Run the brown harness along an appropriate path in the attic. Secure it with cavaliers and ensure that the cavaliers are not damaging the brown harness as short circuit may result.
2. Remove the 2 screws that are fastening the metallic cover to the junction box of the toggle switch.

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3. Pull on the metallic cover and disconnect the wire twist connectors connecting the brown harness to the toggle switch cables (do not disconnect the wires from the toggle switch). The Yellow, Green, Red, White and Blue wires must be disconnected.
4. Drop the brown harness in the wall to the location where the toggle switch is to be located.
5. Secure the junction box of the toggle switch inside the wall.
6. Using wire twist connectors, connect the wires of the brown harness to the wires of the toggle switch: Red to Red, Yellow to Yellow, Green to Orange, White to White and Blue to Blue.
7. Position all the wire twist connectors inside the junction box and fasten the toggle switch cover to it.

### OPERATION OF ONE-TOUCH TO ITS DOWN POSITION

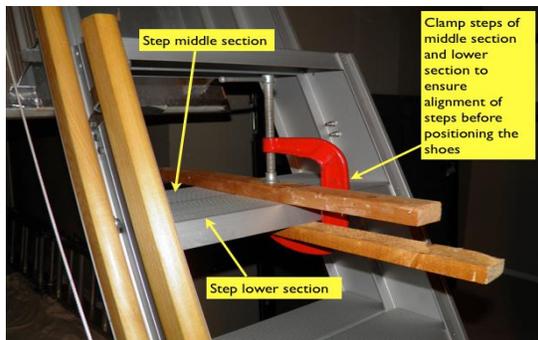
1. The person in the attic shall connect the plug of the stairway black electric cable to the battery backup and the cable of the battery backup to the 120 VAC electric outlet that is **on a GFCI protected circuit resettable from a room below.**
2. The person in the attic shall hold the toggle switch in its Down position: One-Touch starts its transit Down (DWN).
3. Transit DWN can be stopped at any time by releasing the toggle switch which then returns to its neutral position: One-Touch stops its DWN transit and remains in the position it stopped. This indicates that the GearMotor brake has engaged and is properly operating.
4. Continue to hold the Toggle Switch DWN until the Stairway is fully extended, then release it: the toggle returns to its neutral position, the motor stops and the brake engages.
5. At this point it is recommended to remove power to the stairway before proceeding to next step.

### ADJUSTING ONE-TOUCH TO CEILING HEIGHT

1. Ensure that One-Touch door panel is fully opened and maintained in its angular position by its two silver hold-open arms.
2. **The stroke Stops of One-Touch of each of the sliding sections are already properly adjusted for the ceiling height of your home.**
3. When One-Touch is fully extended, its stroke Stops should be resting on one another.
4. Attach the pivoting shoes using the provided bolts, washers and nuts.

### RECOMMENDED PROCEDURE FOR INSTALLING ONE-TOUCH LANDING SHOES

**One-Touch** landing shoes are part of the hardware, but are not installed. They will need to be installed by the contractor installing One-Touch in the home.



## ONE-TOUCH INSTALLATION INSTRUCTIONS

### 1. One-Touch is fully extended and is not resting on the floor

(this should be the case if the proper height ceiling was given to One-Touch manufacturer)

1. If the shoes are going to sit on a rug then ensure that the rug is in place prior to adjusting the shoes.
2. Verify that the bottom of the last section is not in contact with the floor. **DO NOT CLIMB ON ONE-TOUCH IN THIS CONDITION.**
3. Verify that the steps of each sliding section are fully aligned and that the stroke Stops of the last section are resting against their associated Stops of the adjacent section.
4. Measure the distance between the floor and the bottom of the last section: there should be enough clearance for proper installation and functioning of the shoes.
5. Position the shoe leg against **the upper side of the rail**, ensuring that the shoe is resting on the floor.
6. Drill any 2 holes from the shoe leg to One-Touch rail, ensuring that the selected holes are not interfering with the One-Touch steps.
7. Repeat steps 5, 6 for the opposite side.
8. Positioning the shoe leg against the upper side of the rail (see following picture will avoid interference of the shoe with the adjacent sliding section during stairway travel (up-down).

### 2. One-Touch is fully extended and is resting on the floor (this could be the case if the ceiling height given to One-Touch manufacturer was not correct)

- 2.1. If the shoes of One-Touch are going to sit on a rug then ensure that the rug is in place prior to adjusting One-Touch shoes.
- 2.2. Verify that the steps of the last section of One-Touch are not fully aligned with the one of the adjacent section.
- 2.3. Measure the distance “d” of misalignment between the steps of the last and adjacent sections or between the stops of the last and adjacent sections of One-Touch.
- 2.4. Add 1.5” to 2.0” maximum to this distance “d” then trim each side rail of the last section of One-Touch accordingly. The trim should be done parallel to the floor. (before trimming remove from the part to trim the teflon tape underneath the rails).
- 2.5. Once trimming is achieved, verify that One-Touch steps are fully aligned and that bottom of last section of One-Touch is 1.5” to 2.0” away from floor.
- 2.6. Verify that the stops of One-Touch last section are resting on their respective stops of the adjacent middle section.
- 2.7. Install one shoe at a time.
- 2.8. Position the shoe support against the upper section of One-Touch side frame ensuring that the shoe is resting on the floor.
- 2.9. Drill any 2 holes from the shoe support to One-Touch side frame ensuring that the selected holes are not interfering with the steps of One-Touch.

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2.10. Repeat steps 2.8 to 2.9 for the other side of One-Touch.



**IF ABOVE STEPS 1, or 2 ARE SATISFIED, THEN IT IS SAFE TO USE ONE-TOUCH.**

### **CHECKING THE PROPER RETRACTION/EXTENSION OF ONE-TOUCH**

Operation of One-Touch needs to be checked from the attic and from the room where One-Touch is installed.

#### **Checking operation from the room below**

1. One-Touch position is fully extended.
2. Connect One-Touch electric cable to the battery backup and the cable of the battery backup to the electric outlet that is **on a GFCI protected circuit resettable from a room below.**
3. Position the Toggle switch to Up or press and hold one the 2 upper buttons (top right upper one) of the 4 buttons transmitter:
  - 3.1. One-Touch starts to retract until it reaches its fully Up position. At such time the GearMotor is automatically de-energized and the motor brake automatically engages: The panel is then flush with the aluminum frame on the ceiling.
4. Positioning and holding the Toggle switch to Down or pressing and holding the other top button (top left upper button) of the 4 buttons transmitter:

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4.1. The brake is disengaged, the gear motor energized and One-Touch starts its travel towards its fully opened/extended position. When, or shortly after, One-Touch shoes contact the floor, release the toggle switch, or the button of the 4 buttons transmitter. At such time the GearMotor is automatically de-energized and the motor brake engages.

5. **WHEN OPERATING THE STAIRWAY WITH THE REMOTE, ALWAYS WAIT UNTIL THE MOTOR HAS COMPLETELY STOPPED BEFORE COMMANDING THE STAIRWAY IN THE OPPOSITE DIRECTION.**

### **Checking operation from the attic:**

Hold the toggle switch installed on the Stairway and repeat above steps 1 to 4.

### **Releasing the brake:**

The motor brake can be disengaged as follows:

1. One-Touch position is fully retracted.
2. Wirelessly release the brake (ANG motor) by pressing/holding either lower 2 buttons of the 4 buttons transmitter.
3. The panel is then driven by gravity force toward a partially opened position.

### **Checking the manual opening/extension of One-Touch from the room below:**

Initial position: One-Touch fully retracted, panel closed and flush with the aluminum frame on the ceiling.

One-Touch is equipped with a wireless brake release that can be activated from the room below. Proceed as follows:

1. Position a Step ladder to access the white plastic plug that is engaged in a threaded hole located in the vicinity of the panel end (opposite the panel hinge).
2. Remove the plastic plug.
3. Fully screw the eye bolt (that has a cord and a plastic handle) in the threaded hole
4. While **pressing/holding either 2 lower buttons of the 4 buttons transmitter pull on the plastic handle and cord to assist the stairway panel reaching its fully opened position.**
5. If it is necessary to fully extend the stairway to the floor, then the contractor will need to 1st secure the sliding sections together prior removing the paracord quick releases from their eyebolts (one on each side toward the bottom of the sliding section with shoes), then hold assist the sliding sections down to the floor prior removal of whatever securing means was used between the sliding sections. Do not let the sliding sections reach the floor **without assisting their travel down**, as this could cause possible body injuries and/or stairway damages.

This completes the correct control of the operation of One-Touch from the room and from the attic. Retraction of the Stairway is only possible with electricity.

### **CHECKING THE PROPER OPERATION OF ONE-TOUCH WHEN AN OBSTACLE IS IN THE WAY DURING EXTENSION**

1. Place an obstacle in the path of the extension of One-Touch to prevent the extension of One-Touch sliding sections.

## ONE-TOUCH INSTALLATION INSTRUCTIONS

2. Position and hold the toggle switch to Down or hold down the top left button of the 4 buttons transmitter:
  1. The GearMotor brake energizes, releasing the brake and the GearMotor energizes.
  2. One-Touch starts its travel Down.
  3. The sliding sections starts to extend.
  4. The obstacle stops the extension of one of the sections.Although the motor continues its rotation, One-Touch has stopped from extending and the cables will not unwind. Release the toggle switch or the transmitter button for de-energizing the GearMotor. At such point the brake engages.
3. One-Touch will stay in the position reached even after removing the obstacle.
4. Placing and holding the toggle switch on Up or the top right button of the 4 buttons transmitter will drive One-Touch to its Up position.

### CHECKING OPERATION OF ONE-TOUCH WITH THE REMOTE

#### **General:**

One-Touch comes with one 4 buttons transmitter. The 2 upper buttons are for the DOWN and UP travels while either of the 2 lower buttons are for the brake release. It has also a toggle switch permanently attached to the supporting structure of the Stairway, close to the panel hinge. In this configuration, One-Touch can be operated with the remote and/or with the toggle switch from the attic. One-Touch can also be operated by a toggle switch from the room below. The brown harness of the 2nd Toggle Switch needs to be run from the Toggle Switch fitted to the stairway frame to the room below. The wires of the brown harness are wire twisted to the 2nd toggle switch (connection is color to color except green wire of the brown harness connects to the orange wire of the toggle). Toggle switch is a DPDT of the type (on)-off-(on). ( ) means momentary.

**TO AVOID DAMAGING THE STAIRWAY RELAYS, ALWAYS WAIT UNTIL THE MOTOR HAS COMPLETELY STOPPED BEFORE PRESSING/HOLDING THE OTHER BUTTON OF THE REMOTE.**

**Operating One-Touch with the remote from the room below or from the attic:** Press and hold the top left or top right button of the 4 buttons transmitter to control the stairway travel in one direction. After releasing that button, the motor brake engages and the motor stops. By pressing/holding the other top button of the 4 buttons transmitter, the stairway travels in the opposite direction; releasing that button, the motor brake engages and the motor stops.

### **ONE-TOUCH IS NOW READY FOR USE**

**eLAIR ENTERPRISES reserves the right to modify the content of this Instruction Manual without notice.**