A1 Garage Doors

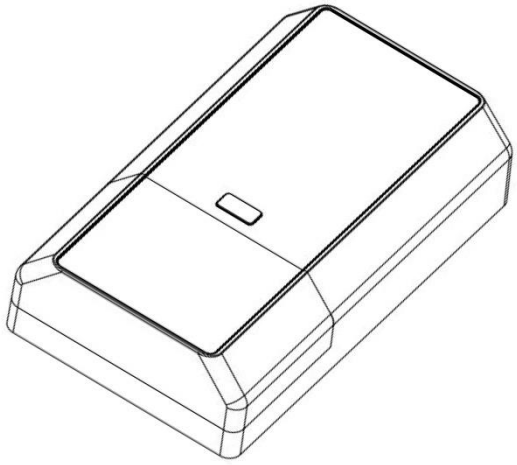
Garage Door Opener
SMART
SYSTEM

# OPERATOR'S MANUAL

## GARAGE DOOR OPENER

### PROLINE A

### 800N/1200N



Your garage door opener has been engineered and manufactured to our high standard for dependability, ease of operation, and operator safety. When properly cared for, it will give you years of rugged, trouble-free performance.

**⚠ WARNING:** To reduce the risk of injury, the user must read and understand the operator's manual before using this product.

Thank you for your purchase.

**SAVE THIS MANUAL FOR FUTURE REFERENCE**

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# INTRODUCTION

This product has many features for making its use more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product making it easy to maintain and operate.

* * *

# SPECIFIC SAFETY RULES

## ⚠ WARNING:

**READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE USING THIS GARAGE DOOR OPENER** to reduce the risk of electric shock, fire and/or serious personal injury.

- For use with residential sectional or single-panel garage doors. Not for commercial use.
- Know your product. Read operator's manual carefully. Learn its applications and limitations, as well as the specific potential hazards related to this unit. Following this rule will reduce the risk of electric shock, fire, death, or serious injury.
- Always follow all safety rules recommended by the manufacturer of your garage door opener, in addition to all safety rules for the garage door opener attachment and accessories. Following this rule will reduce the risk of serious personal injury.
- Do not use any attachments or accessories not recommended by the manufacturer of this product.
- A monthly test of the device's functionality is recommended to ensure reliable performance over time.
- Do not use the garage door opener if it is damaged or broken.
- To avoid accidental use place keypads and remotes in a location that is inaccessible to children and others not qualified to operate the machine at least five feet above the floor.
- Do not allow children or untrained individuals to use this unit.
- Do not allow to be used as a toy. Close attention is necessary when used near children.
- To avoid death or serious personal injury, stay clear of the garage door while it is moving.
- Mount the garage door opener to joists only. Never mount the unit to drywall or false ceiling grids. Failure to properly install the garage door opener could result in a falling hazard that can cause death or serious personal injury.
- This product is not equipped for permanent wiring. Contact licensed electrician to install a suitable receptacle if one is not available.
- Plug the garage door opener directly into a power source. Do not attach an extension cord or cord adaptor to this product's power cord.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Do not handle power supply cord, wires, wire terminals, or accessories with wet hands.
- Inspect power supply cord and wires periodically and, if damaged, have repaired by the manufacturer or by an authorized service center to avoid risk. Keep power supply cord and wires away from pinch points and moving parts. Following this rule will reduce the risk of electric shock or fire.
- Check damaged parts. Before further use of the garage door opener, a belt, pulley, or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, and any other conditions that may affect its operation. A belt, pulley, or other part that is damaged should be properly repaired or replaced by an authorized service center. Following this rule will reduce the risk of shock, fire, or serious injury.
- When servicing a product, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of injury.
- Never attempt to loosen, adjust, or remove the door springs (torsion spring and/or extension spring), door spring components, or any surfaces to which these items are secured. These items are under extreme tension and any such alteration could result in death, serious personal injury, and/or property damage.
- Servicing of garage doors, door springs (torsion and/or extension springs), and door spring components should be performed only by a qualified service person.

# FEATURES

**PRODUCT SPECIFICATIONS**

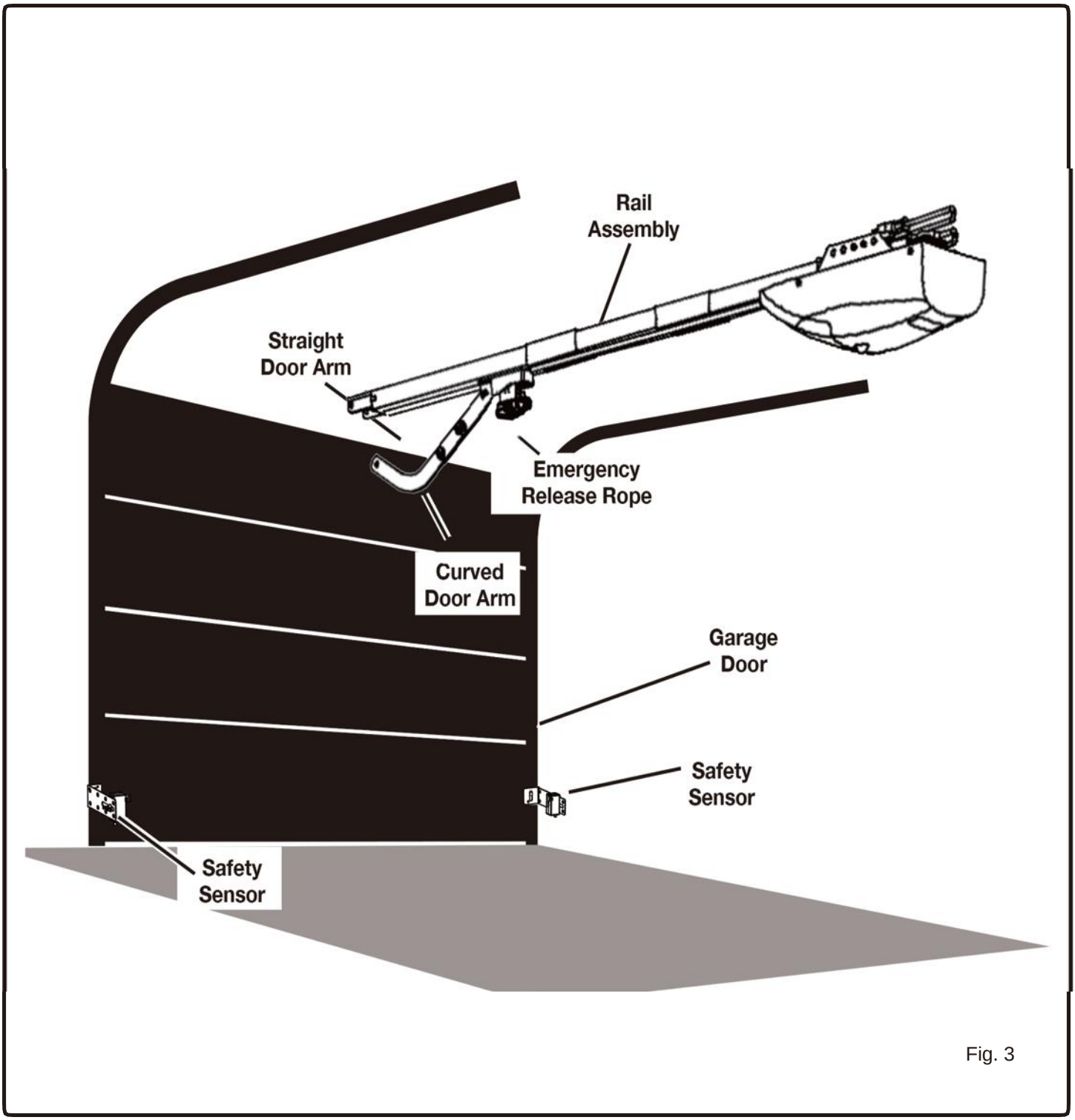



Fig. 3

# FEATURES

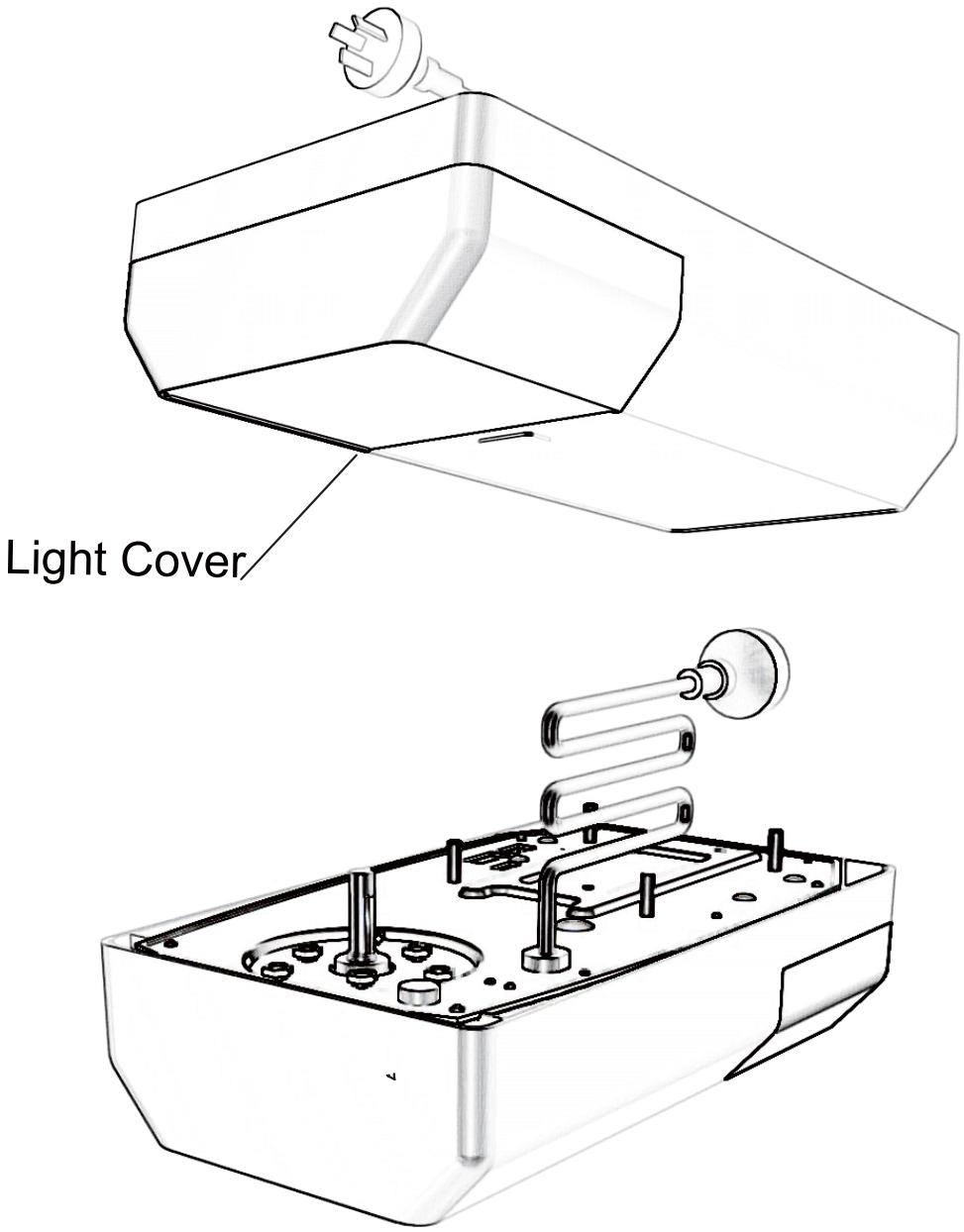
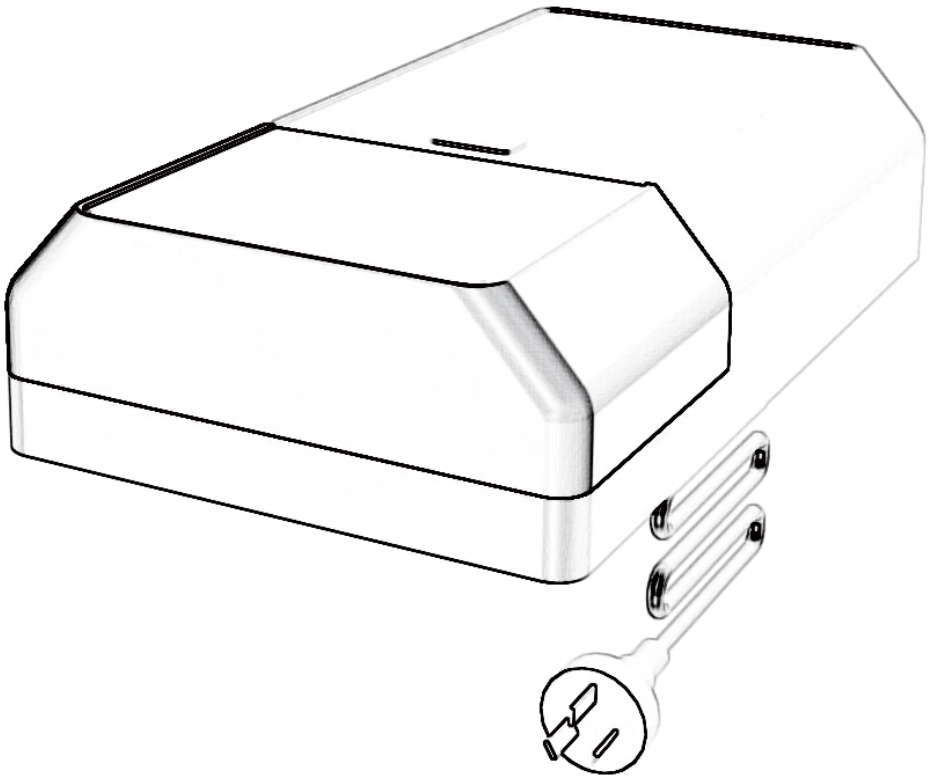



Fig. 4

# FEATURES



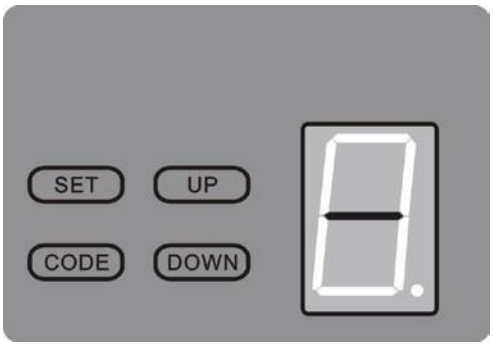
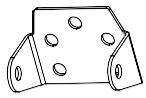
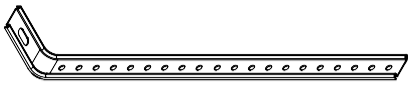
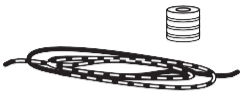


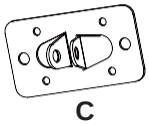

Fig. 5

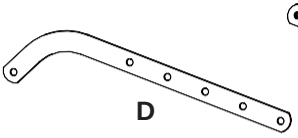
# LOOSE PARTS

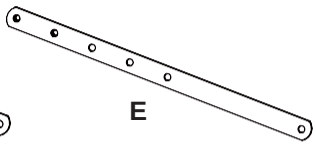

A


B


F

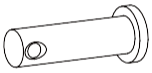

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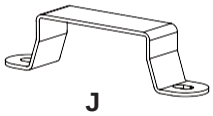

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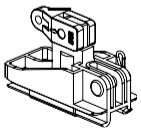

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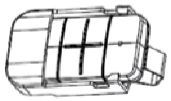

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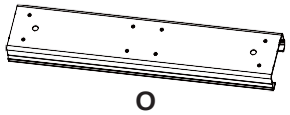

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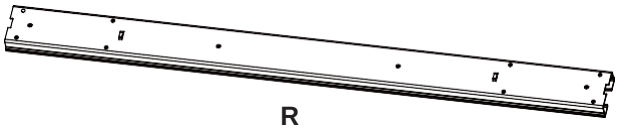

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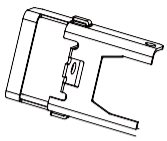


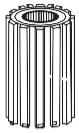
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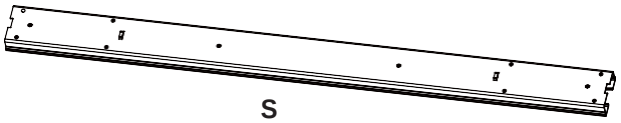

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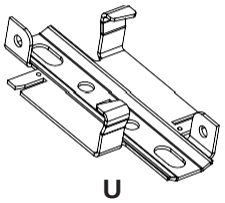

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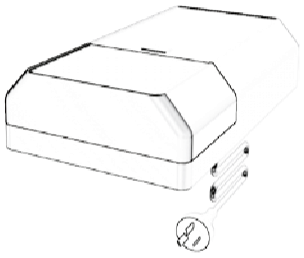

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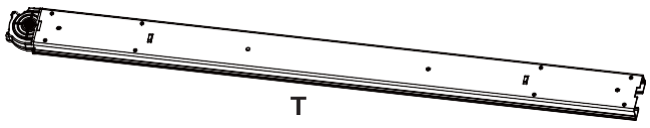

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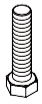

S


U


V


T

aa 

bb 

cc 

dd 

Fig. 6

# LOOSE PARTS

The following items are included with your garage door opener:

| | | |
|---|---|---|
| A. | Header Bracket | 1 |
| B. | Mounting Strap | 2 |
| C. | Door Bracket | 1 |
| D. | Curved Door Arm | 1 |
| E. | Straight Door Arm | 1 |
| F. | Emergency Release Rope | 1 |
| G. | Large Clevis Pin φ8x90 | 1 |
| H. | Medium Clevis Pin φ8x30 | 1 |
| I. | Small Clevis Pin φ8x25 | 1 |
| J. | Bracket | 2 |
| K. | Hitch Pin | 3 |
| L. | Outer Trolley | 1 |
| M. | Entrapment Warning Label (Eng., Fr., and Sp.) | 1 |
| N. | Remote | 2 |
| O. | Sleeve | 1 |
| P. | Front Brace | 1 |
| Q. | Sprocket | 1 |
| R | Front Rail | 1 |
| S. | Intermediate Rail | 1 |
| T. | End Rail | 1 |
| U. | Suspension bracket | 1 |
| V. | Power head | 1 |
| aa. | Flange Nut (M6) | 6 |
| bb. | Outer hexagon Bolt (M6x14) | 2 |
| cc. | Flange Nut (M8) | 2 |
| dd. | Flat bead outer hexagon (M8x16 ) | 2 |

# TOOLS NEEDED

# ASSEMBLY

### UNPACKING

This product requires assembly.

- Carefully remove the product and any accessories from the box. Make sure that all items listed in the loose parts list are included.

  **NOTE:** This tool is heavy. To avoid back injury, lift with your legs, not your back, and get help when needed.

**⚠WARNING:**

Do not use this product if any parts on the Loose Parts List are already assembled to your product when you unpack it. Parts on this list are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.

- Inspect the tool carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.
- If any parts are damaged or missing, please call manufacturer and dealers for assistance.

**⚠WARNING:**

If any parts are damaged or missing do not operate this tool until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.

**⚠WARNING:**

Do not attempt to modify this tool or create accessories not recommended for use with this tool. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

**⚠WARNING:**

Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

# ASSEMBLY

## ⚠ WARNING:

Always wear eye protection with side shields when assembling and performing maintenance on this product. Failure to do so could result in objects being thrown into your eyes resulting in possible resulting in possible serious injury.

## *NOTICE:*

Many of the illustrations in this manual show only portions of the garage door opener. This is intentional so that we can clearly show points being made in the illustration. Never operate the garage door opener without all parts securely in place and in good operating condition.

### ASSEMBLING THE RAILS

See Figures 8 - 18.

- Locate the following items:
  - Front Brace
  - End Rail
  - Intermediate Rail
  - Front Rail
  - Sleeves (2)
  - Outer Trolley
- Remove tie wrap from rail and pulley.
- Pull the front pulley and belt through the end rail and into a sleeve.
- Slide the outer trolley into the end rail.
- Pull the release lever down and move outer trolley toward the inner trolley until they are engaged.

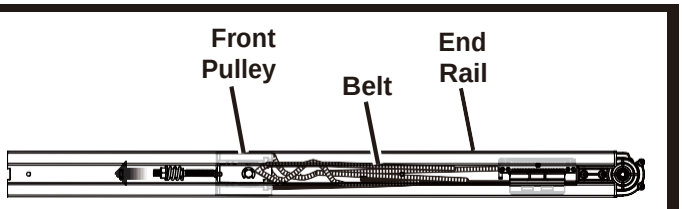



Fig. 8

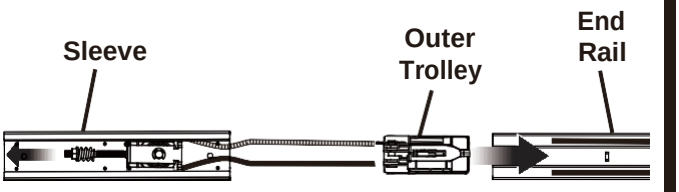



Fig. 9

- Insert the edge of the end rail into the sleeve. Slide together until rail clicks in place. If you cannot get the rail to fit by hand, try gently tapping it with a rubber mallet until it is snug and clicks into place. **Be careful not to pinch or damage the belt.**
- Repeat this process to attach the intermediate rail, second sleeve, and then the front rail. When assembled correctly, the rails should not separate easily when pulled.
- Pull the front pulley and belt through the first sleeve, the intermediate rail, the second sleeve, and to the top of the front rail.
- Turn the tension nut on the pulley rod counterclockwise to loosen. Remove the tension nut and spring from the pulley rod.

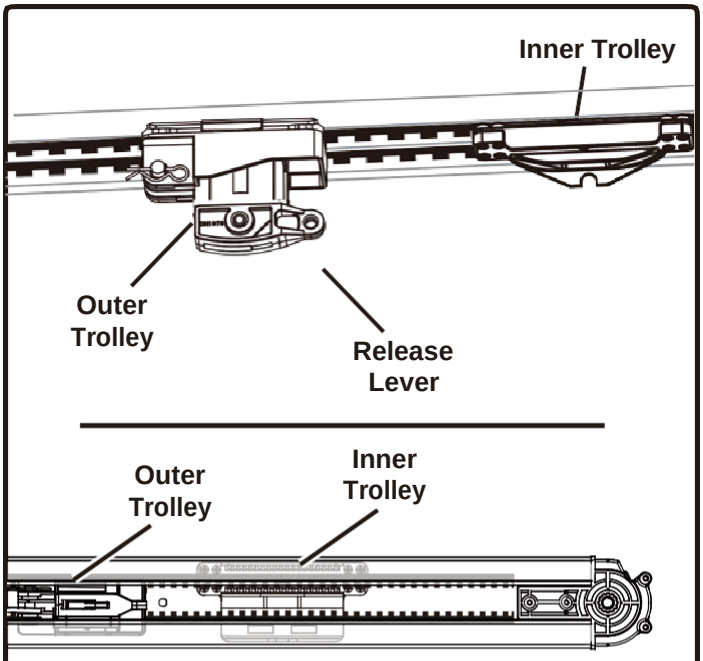



Fig. 10

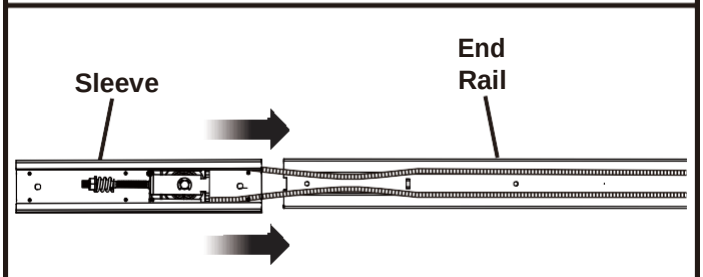



Fig. 11

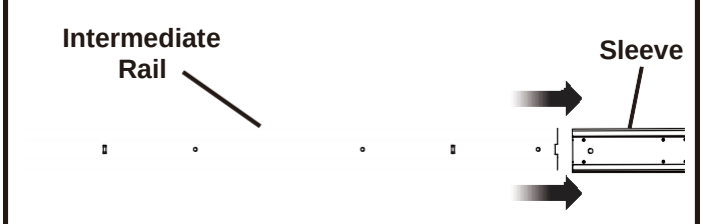



Fig. 12

# ASSEMBLY

- Move the front pulley toward the middle of the front rail.
- Insert the edge of the front brace into the front rail. Slide together until brace clicks in place. If you cannot get the brace to fit by hand, try gently tapping it with a rubber mallet until it is snug.
- Pull the front pulley forward and slide the rod through the hole in the brace.
- Install spring and tension nut onto pulley rod.
- Move the inner and outer trolley to the middle of the rail assembly.

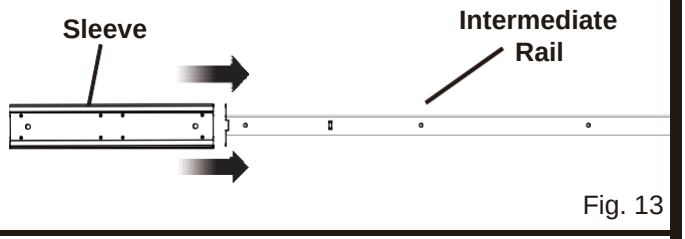


Fig. 13

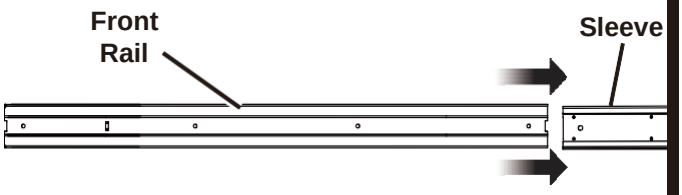


Fig. 14

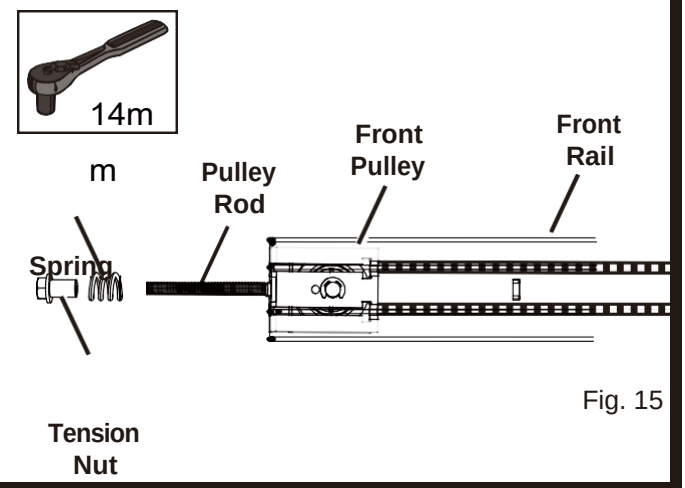
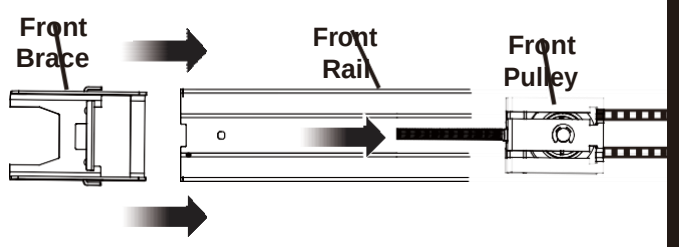


Fig. 15



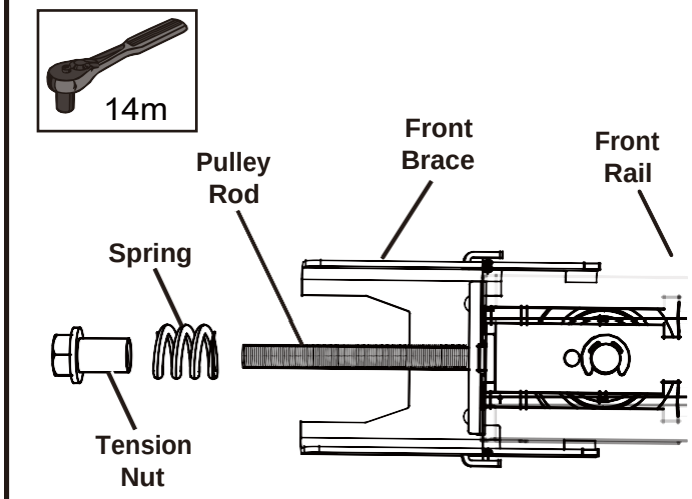



Fig. 17

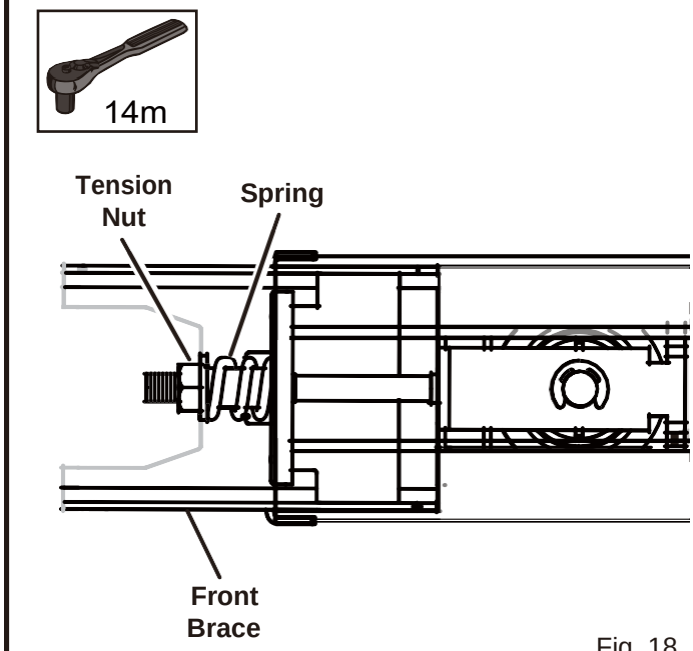


Fig. 18

# ASSEMBLY

## ADJUSTING THE BELT TENSION

See Figures 18 - 21.

- Using a 14mm socket, turn the tension nut clockwise to tighten the belt and counter-clockwise to loosen it. Adjust the nut until there is approximately 19 to 22 mm of spring length or until the base of the nut is aligned with the edge of the brace.
- When properly tensioned, there should be about a 3 mm gap between the belt and the edges of the intermediate rail near the center of the rail assembly.

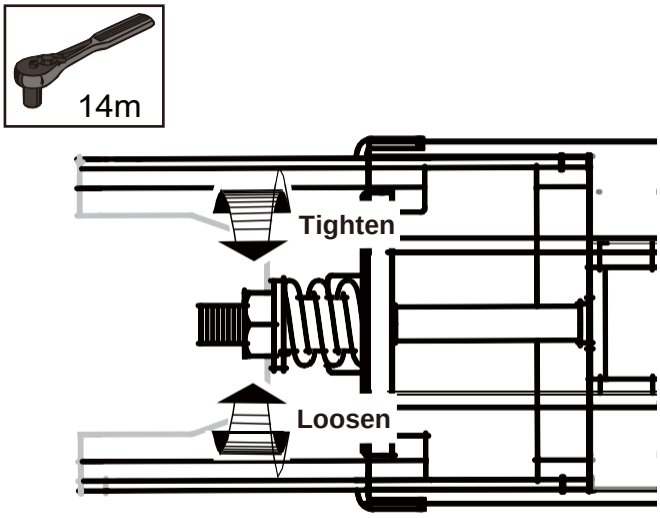



Fig. 19

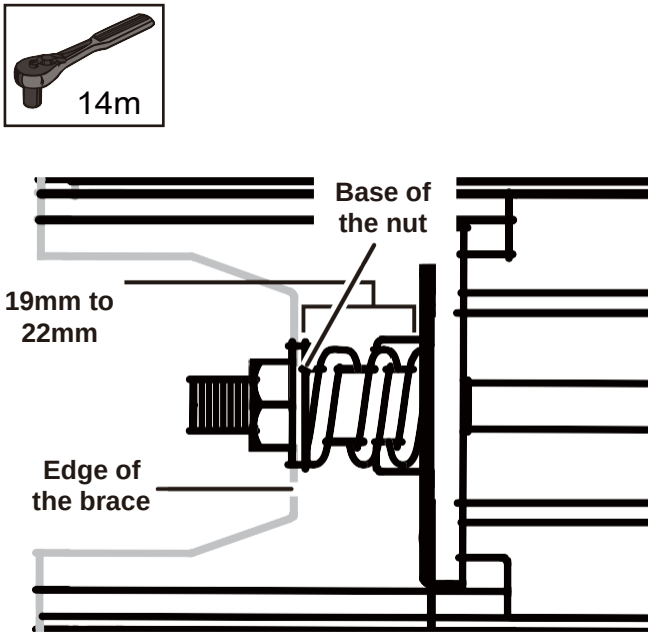



Fig. 20

## ATTACHING RAIL ASSEMBLY TO POWER HEAD

See Figures 22 - 25.

- Locate the following items:

  Power Head

  Bracket (2)

  Flange Nut (4)

  Sprocket

  Rail Assembly
- Place the power head on a towel or the packaging material with the light cover facing down.
- Place the sprocket onto the motor shaft with the round side of the sprocket facing up.

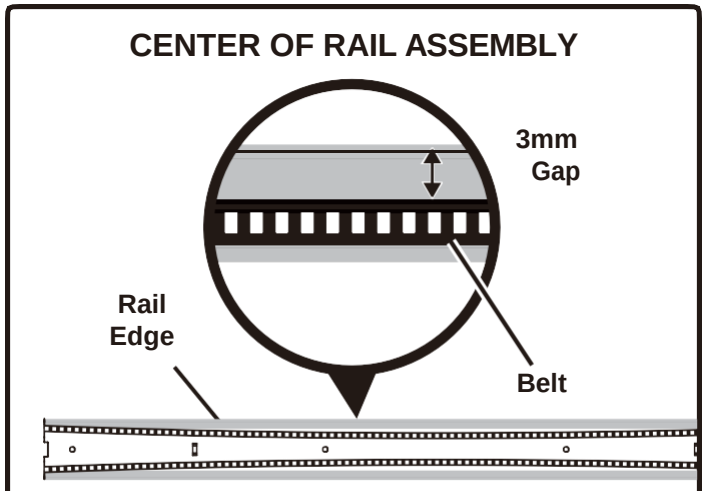



Fig. 21

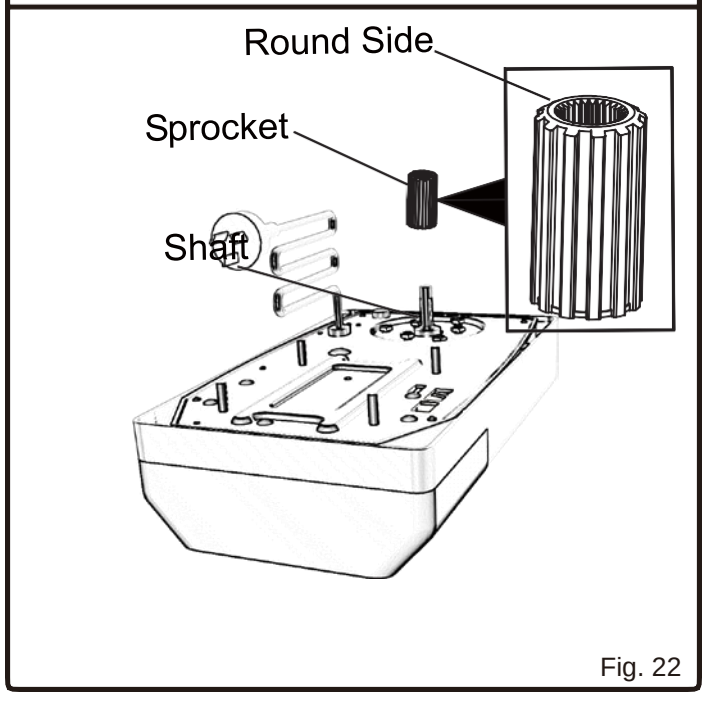



Fig. 22

# ASSEMBLY

- Hold the rail assembly above the power head with arrow pointing toward the front of the power head and the garage door.
- Rotate the rail assembly until the opening in the rail is aligned with the sprocket.
- Lower the end rail onto the sprocket with the channel (open end) facing down. Slowly rotate the rail to the correct orientation as you lower it into position.
- When installed correctly, the teeth on the sprocket should engage the rail assembly and the rail should sit flat on the power head.
- Place the brackets on top of the studs, and over the end rail.
- Place the flange nuts on top of the studs, then tighten with hand. **Do not over tighten.**

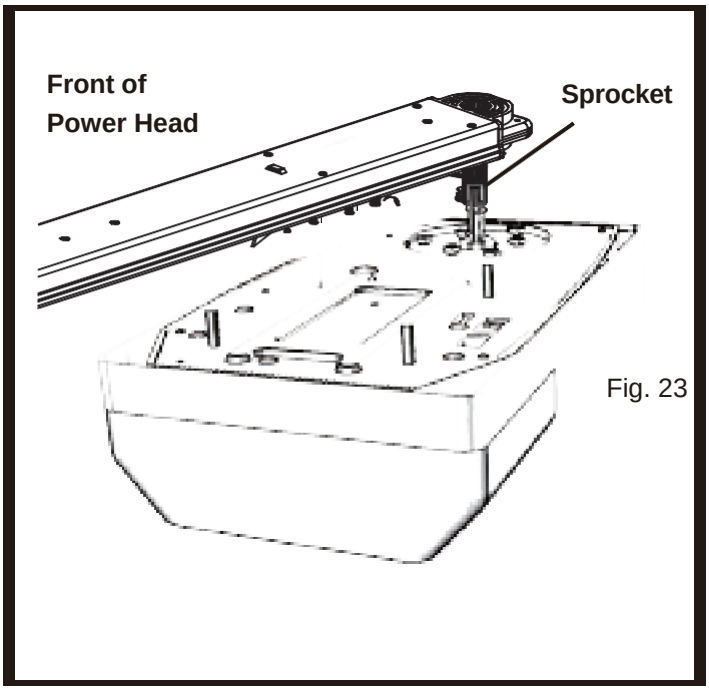
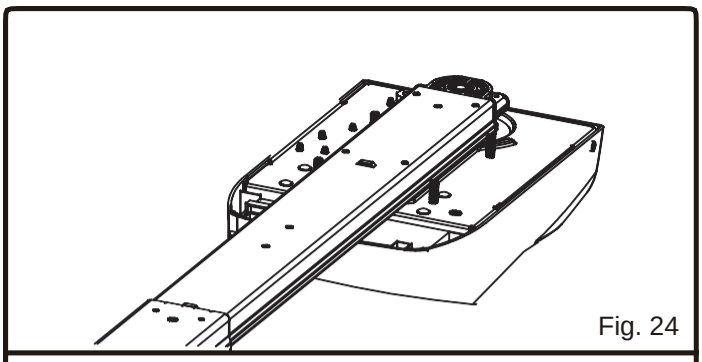


Fig. 23


Fig. 24

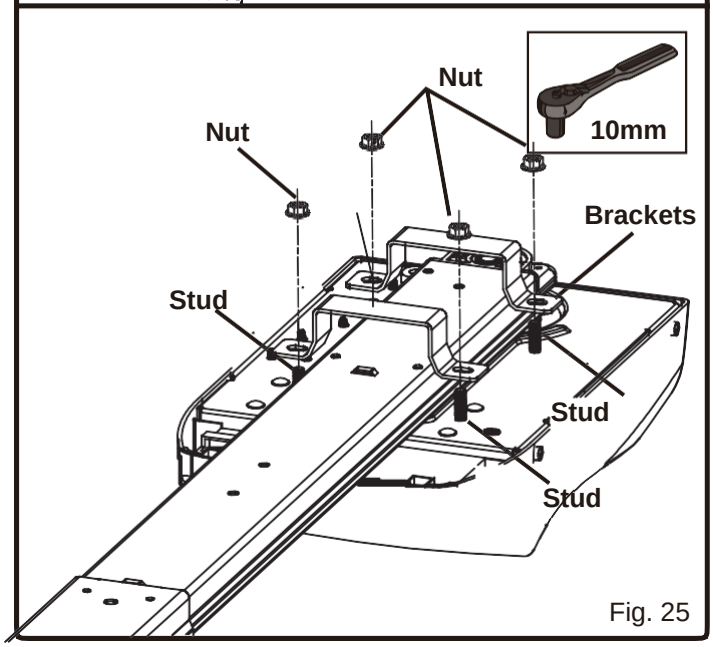


Fig. 25

# INSTALLATION

## IMPORTANT INSTALLATION INSTRUCTIONS

### ⚠WARNING:

**TO REDUCE THE RISK OF SEVERE INJURY OR DEATH:**

1. READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
2. Install only on a properly balanced garage door. An improperly balanced door could cause severe injury. Have a qualified service person make repairs to cables, spring assemblies and other hardware before installing opener.
3. Remove all ropes and remove or make inoperative all locks connected to the garage door before installing opener.
4. For products having an emergency release, mount the emergency release within reach, but at least 1.8m above the floor and avoiding contact with vehicles to avoid accidental release.
5. Do not connect opener to source of power until instructed to do so.
6. Locate control button: (a) within sight of door, (b) at a minimum height of 1.5m so small children cannot reach it, and (c) away from all moving parts of the door.
7. Install Entrapment Warning Label next to the control button in a prominent location. Install the Emergency Release Marking. Attach the marking on or next to the emergency release.
8. After installing opener, the door must reverse when it contacts a 5 cm high object (or a 5 by 10 cm board laid flat) on the floor.
9. **WARNING:** To reduce the risk of injury to persons - Only enable the unattended operation feature when installed on a sectional door.

### ⚠WARNING:

Do not connect to power supply until installation is complete. Failure to comply could result in accidental starting and possible serious personal injury.

### ⚠WARNING:

To avoid serious personal injury, make sure the garage door opener is mounted to joists. Never mount the unit to drywall or false ceiling grids.

### ⚠WARNING:

Always wear eye protection with side shields when installing this product.
Failure to do so could result in objects being thrown into your eyes resulting in possible serious injury.

### *NOTICE:*

Many of the illustrations in this manual show only portions of the garage door opener. This is intentional so that we can clearly show points being made in the illustration. Never operate the garage door opener without all parts securely in place and in good operating condition.

### ⚠WARNING:

If you feel uncomfortable performing any of the installation steps described in this manual, have the installation performed by a qualified service person. Improper installation of the garage door opener can result in death, serious personal injury, or property damage.

# INSTALLATION

**CHECK THE CONDITION OF THE DOOR AND IDENTIFY THE SPRING TYPE**

See Figure 26 - 28.

## ⚠ WARNING:

If the garage door does not move smoothly, binds, or is out of balance, have it repaired or replaced by a qualified service person. An unbalanced or damaged garage door may not reverse on command, which can result in death or serious personal injury.

## *NOTICE:*

The garage door opener may not function as intended if installed onto an unbalanced garage door.

- Remove any ropes attached to the garage door.
- Disable any and all door locks.
- Raise and lower the door to ensure it moves smoothly.
- Check the balance of the door. Raise the door until it is half open and release it. If properly balanced, the door will remain in this position without moving.

  **NOTE:** For single-panel garage doors, balance can be checked at two additional positions. Raise the door until it is nearly in the fully open position (about shoulder height) and release it. If properly balanced, the door should move to the fully open position. Lower the door until it is nearly in the fully closed position (about knee height). If properly balanced, the door should move to the fully closed position.
- If the door does not move smoothly, binds, or is out of balance, this could indicate a problem with the door, door springs (torsion spring and/or extension spring), or door spring components. Have the garage door or door springs repaired by a qualified service person before installing garage door opener.

## ⚠ WARNING:

Never attempt to loosen, adjust, or remove the door springs (torsion spring and/or extension spring), door spring components, or any surfaces to which these items are secured. These items are under extreme tension and any such alteration could result in death, serious personal injury, or property damage.

- If the door moves smoothly and is balanced, you may begin installing the garage door opener.

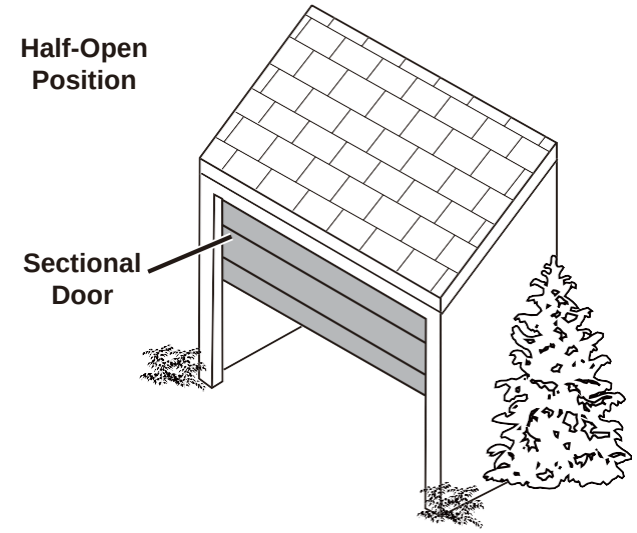



Fig. 26

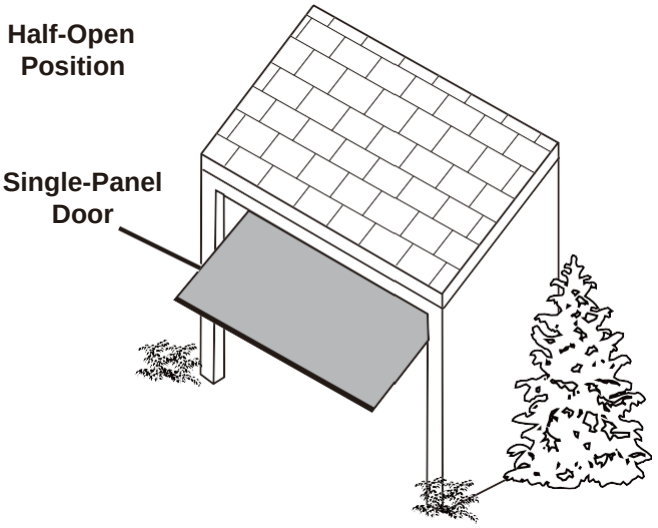



Fig. 27

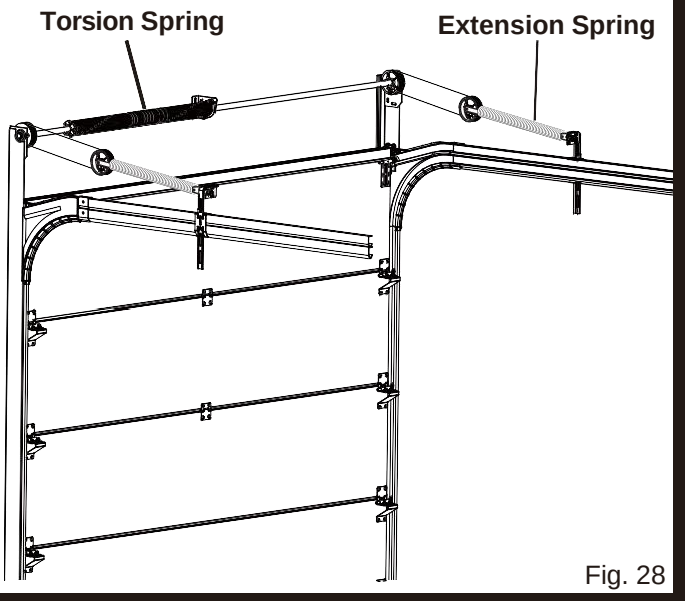



Fig. 28

# INSTALLATION

## INSTALLING THE HEADER BRACKET

See Figures 29 - 31.

**⚠ WARNING:**

To avoid serious personal injury, attach header bracket to sound structural support on header wall. NEVER install the header bracket into weak surfaces such as drywall that can cause the header bracket to fall.

**⚠ WARNING:**

ALWAYS use lag screws and concrete anchors (not included) when installing the header bracket. Failure to properly install the header bracket and associated hardware can result in a falling object hazard and result in death or serious personal injury.

**⚠ WARNING:**

Only install screws, bolts, anchors, and other hardware into sound structural supports in areas where no electrical wires, utility cables, pipes, or other obstructions are located. Contact your local utility company or a qualified electrician if you are unsure. Ensure all hardware components are securely installed to prevent falling objects. Failure to follow these instructions can result in death, electrical shock, or other serious personal injury.

Always install the header bracket onto a sturdy surface. The force required to raise and lower the garage door could pull the bracket and mounting hardware out of weak surfaces such as drywall.

- Locate the following items:
  Header Bracket
  Lag Screw

**To install the bracket to the header wall:**

- Lower the garage door completely.
- Using a pencil and a level, draw a vertical line in the center of the top portion of the garage door.
- Continue drawing the center line from the door to the header wall. Extend the line to about a 30cm above the garage door or as far as possible.

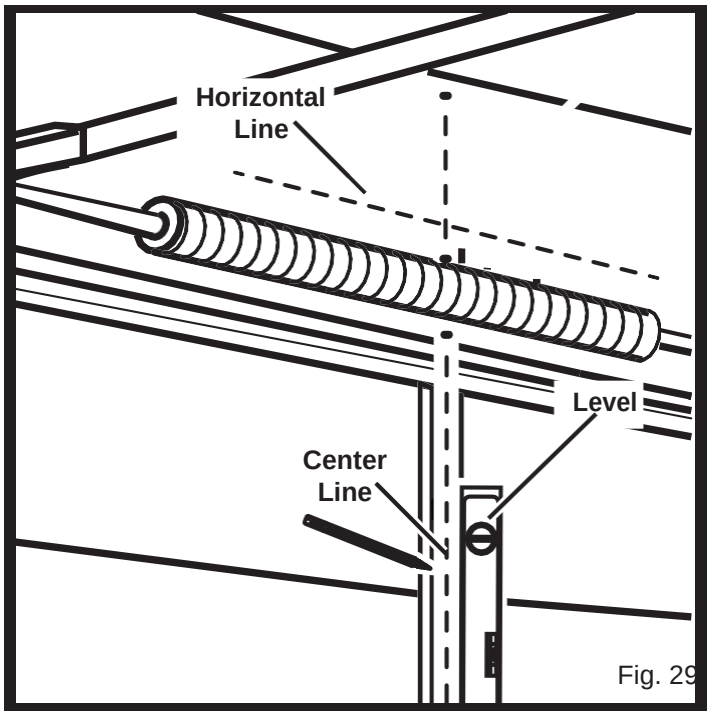



Fig. 29

# INSTALLATION

- Stand on a ladder near the garage door as someone slowly raises it. While it's moving, find and mark the highest point of travel along the center line. The high point will vary based on the type and construction of your garage door.

**NOTE:** The position of the horizontal line will determine the clearance between the top of the door and the rail assembly. If the height of your garage prohibits you from drawing the line as specified above, draw it as far above the high point as possible.

## ⚠ WARNING:

Use extreme care when standing on a ladder. Ensure someone is holding the ladder on the ground to keep it stable. Failure to safely use a ladder can cause a fall and result in death or serious personal injury.

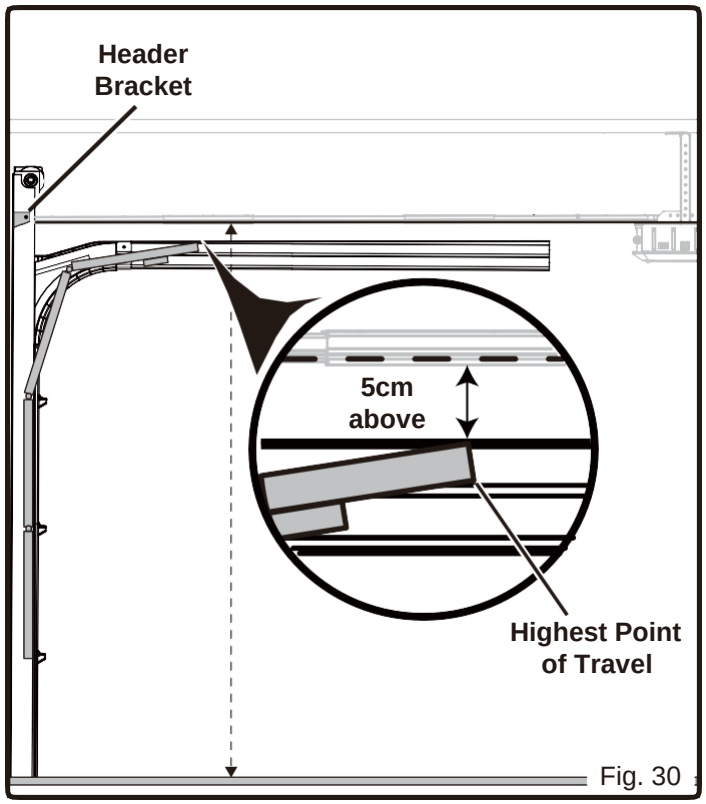


Fig. 30

- Orient the header bracket as shown in figure 28.
- Place the bottom edge of the header bracket on the horizontal line and center the bracket on the center line.
- Mark the holes in the bracket.
- Drill pilot holes and secure the bracket in place using lag screws. Install screws with a 14 mm socket.

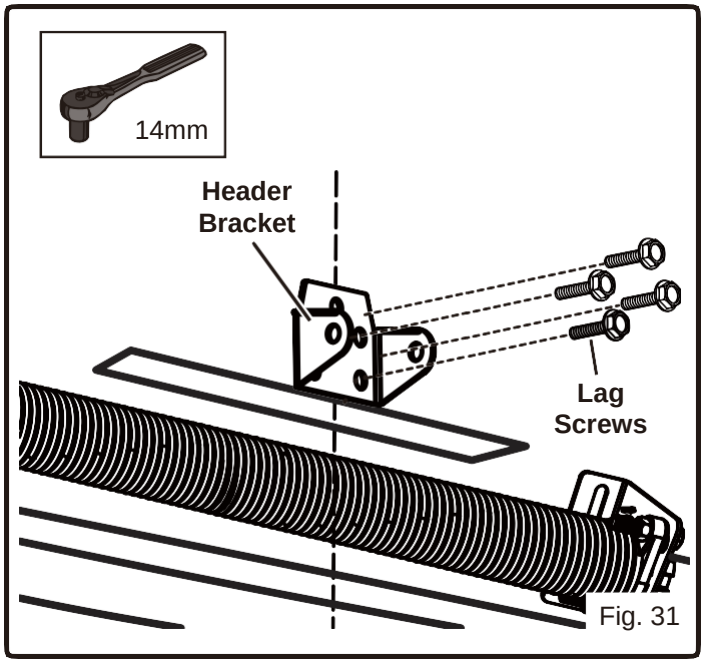


Fig. 31

# INSTALLATION

## ATTACHING RAIL ASSEMBLY TO HEADER BRACKET

See Figure 32.

- Locate the following items:

  Large Clevis Pin

  Hitch Pin
- Place the power head on top of a prop or on the ground with a towel or packaging material beneath it.
- Angle the rail assembly so that it rests against the header bracket.

  **NOTE:** If a door spring or other obstruction is in the way, have someone hold the garage door opener or help to balance it on a raised support while you position the rail assembly.
- Align the holes in the bracket with the holes in the rail assembly as shown.
- Insert large clevis pin and secure with hitch pin.

  **NOTE:** The hitch pin should be installed into the first hole closest to the head of the pin.

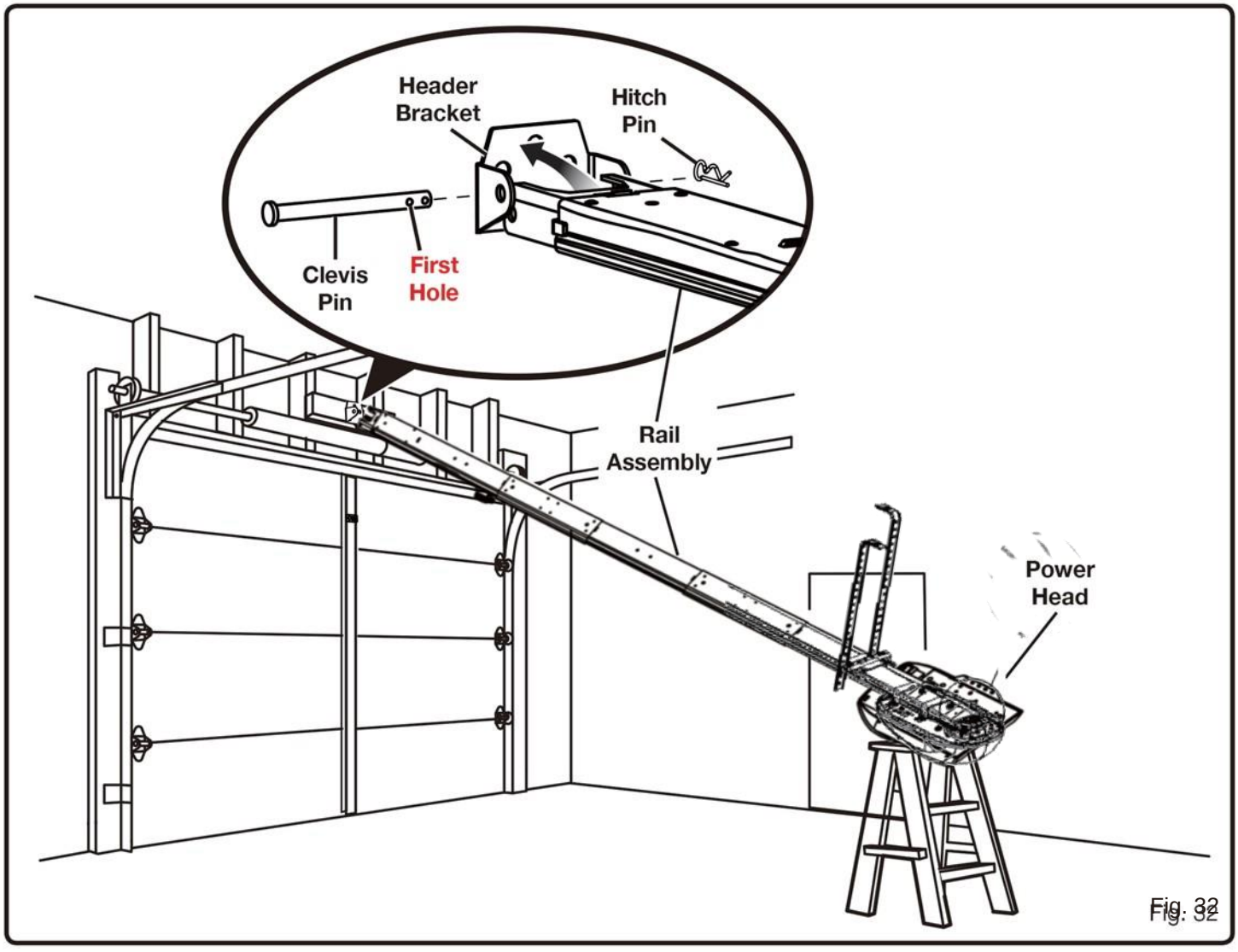



Fig. 32

# INSTALLATION

## MOUNTING THE POWER HEAD TO THE CEILING

See Figures 33 - 36.

**⚠ WARNING:**

Mount garage door opener to sound structural support on ceiling. NEVER mount the garage door to drywall or false ceiling grids. ALWAYS use concrete anchors when installing brackets into concrete, brick, or other masonry. Failure to properly mount the power head can cause it to fall and could result in death, serious personal injury, or property damage.

- Locate the following items:
  - Mounting Strap (2)
  - Bolt
  - Washer
  - Nut
  - Suspension bracket
- Lower the garage door completely.
- Measure the space between the header bracket and the ceiling.
- Carefully lift the power head and place it on top of a ladder.
- Move the power head until it is aligned with the header bracket and the rail assembly is over the center line of the door.
- Pull the trolley release lever down and slide outer trolley completely toward the power head.

**NOTE:** The proper configuration and placement of brackets and mounting straps will vary based on the design and construction of your garage ceiling. Figures 34 - 36 are meant to serve as examples but your setup may vary.

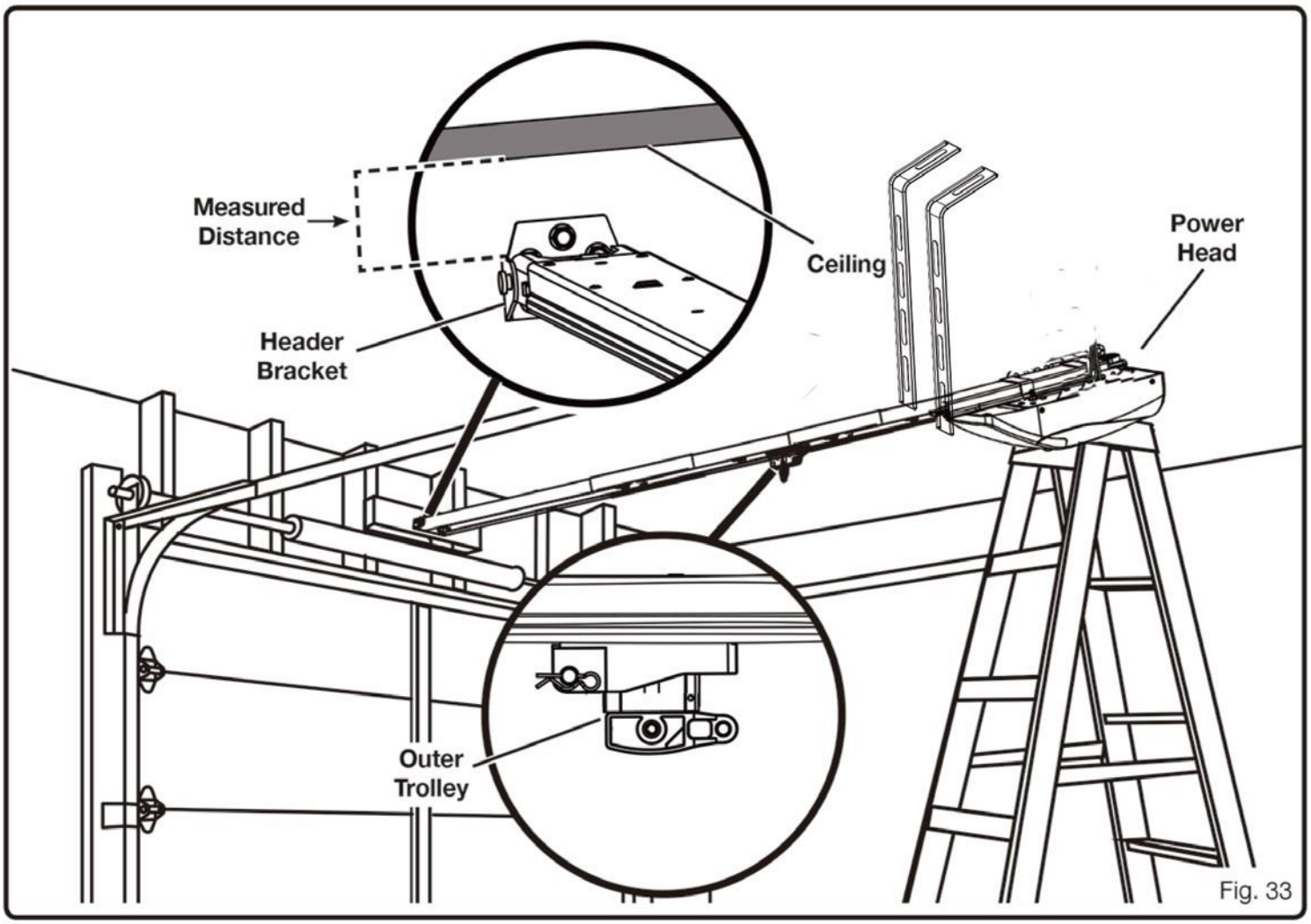


Fig. 33

# INSTALLATION

**To mount the power head to ceilings:**

- Install suspension bracket to the rail , space between power header and bracket is around 100mm (see fig.34)
- Using a wire stripper to twist suspension bracket until it not moving.
- Using a hack saw, cut pieces of the mounting straps that are a 12 mm longer than the measured length between the header bracket and the ceiling. (see fig. 35)
- Connect straps to garage door opener and brackets using bolts and flange nuts. Tighten bolts and nuts with a 10 mm socket.

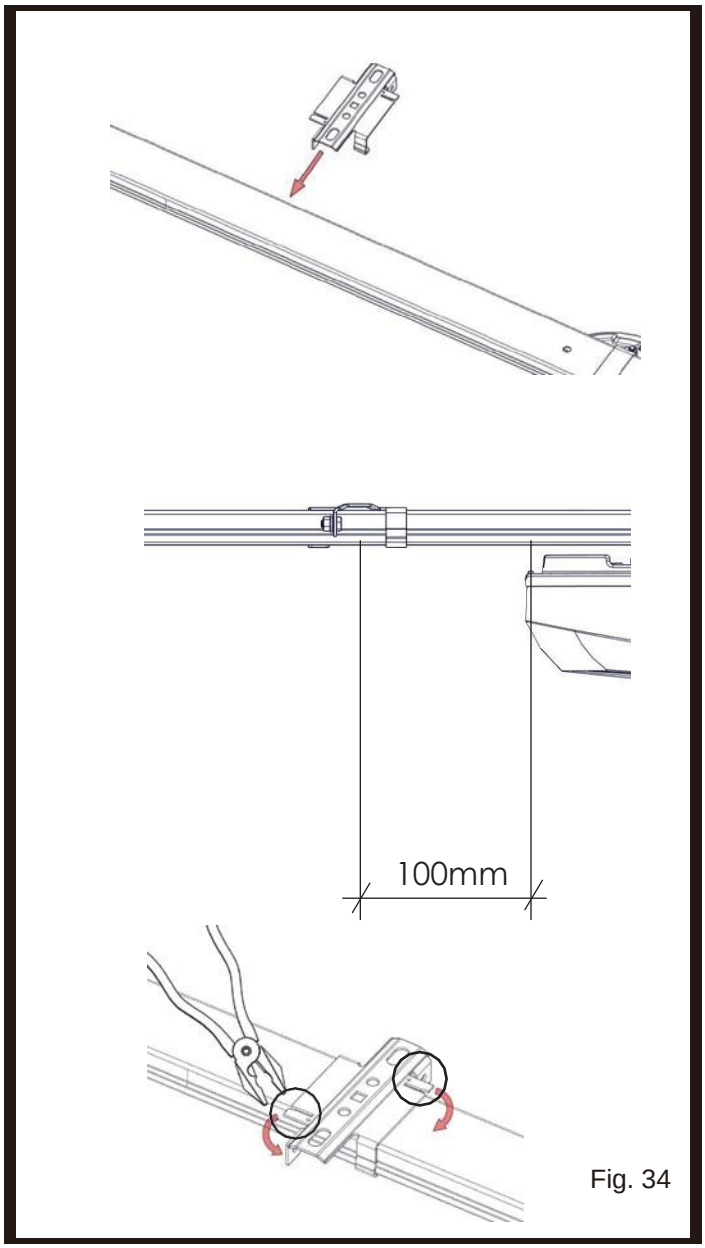



Fig. 34

- Install straps to the garage celling or other structural support using lag screws (not supplied).
- Remove the ladder and raise the door. If there isn't enough clearance between the rail assembly and the door, move the header bracket up and repeat the steps above.

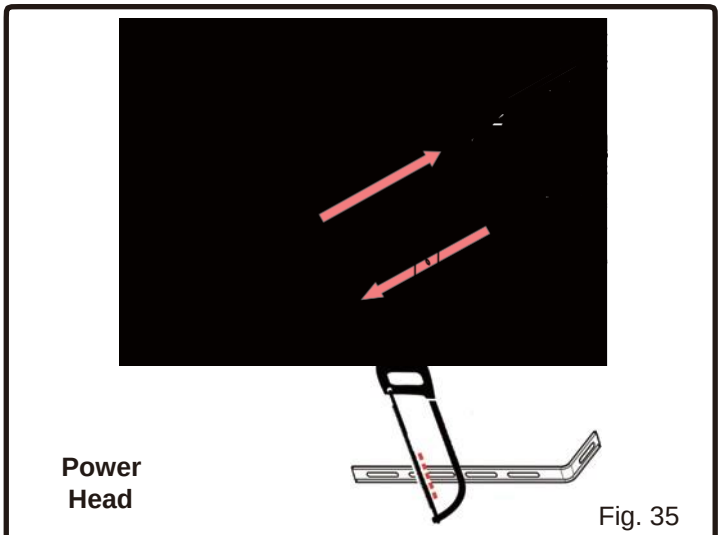



Fig. 35

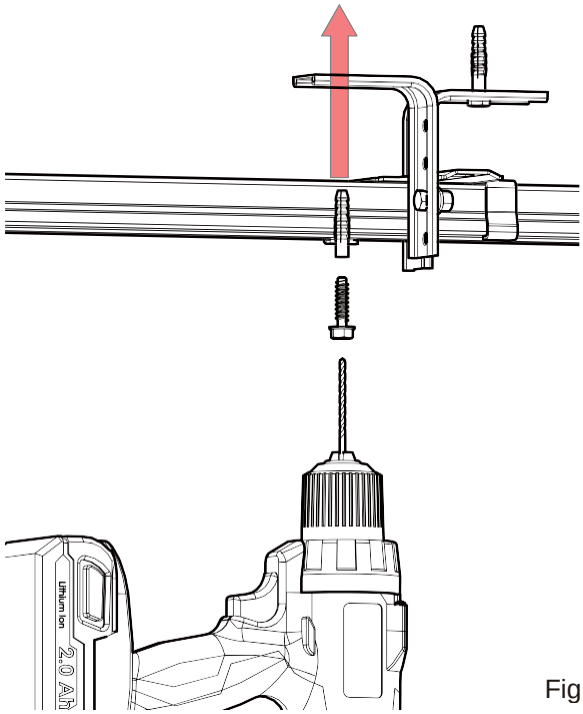



Fig. 36

# INSTALLATION

## ATTACHING THE EMERGENCY RELEASE ROPE

See Figures 37.

## ⚠ WARNING:

Do not engage the emergency release while the garage door is open, do not use the emergency release rope to raise or lower the garage door, and only engage the emergency release when the door way is clear of all people, pets, and obstructions. Failure to properly engage the emergency release can result in death or serious personal injury resulting from a falling garage door.

- Locate the following item:

  Emergency Release Rope
- Lower the garage door completely.
- Insert one end of the emergency release rope through the hole in the handle and tie a knot at the bottom.
- Insert the other end of the emergency release rope through the hole in the trolley release lever. Pull the rope up until it is approximately 1.8m above the garage floor, then tie a knot.

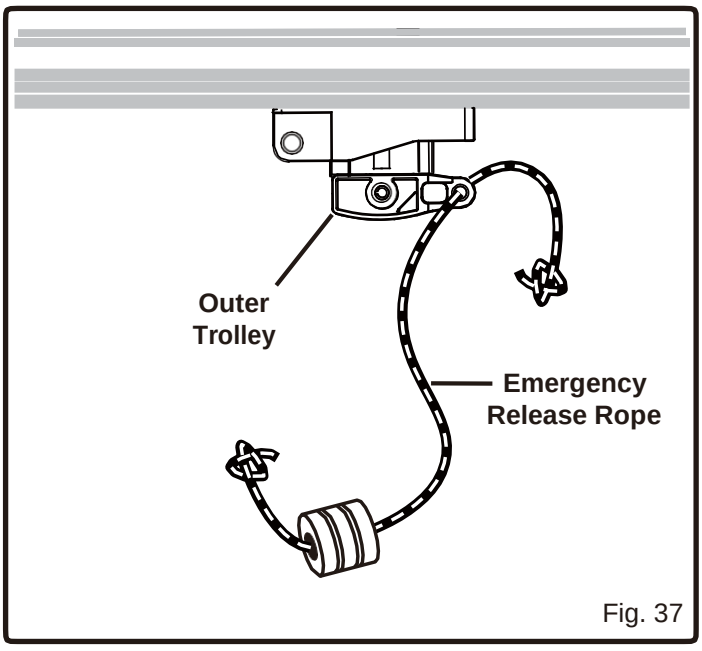



Fig. 37

## INSTALLING THE DOOR BRACKET

See Figures 38 - 41.

- Locate the following items:

  Door Bracket

  Self-tapping Screws (2)

## *NOTICE:*

Before installing the door bracket, ensure that your door has proper horizontal and vertical support. Aluminum, fiberglass, and other light weight garage doors may require vertical or horizontal reinforcement. Check with your garage door manufacturer or installer for reinforcement instructions. Installing a garage door opener on a door that is not properly supported could damage the door and void the door warranty.

**To install the bracket on sectional garage doors:**

- Lower the garage door completely.
- Using a pencil and a level, draw a vertical line in the center of the top portion of the garage door.
- Center the bracket on the line and place it just below the top of the door or at the same approximate height as the top roller.
- Mark the middle holes on the left and right of the bracket.
- Secure the bracket in place by installing self-tapping screws in the center holes on the left and right sides of the bracket.Tighten screws with a 10,14mm socket.

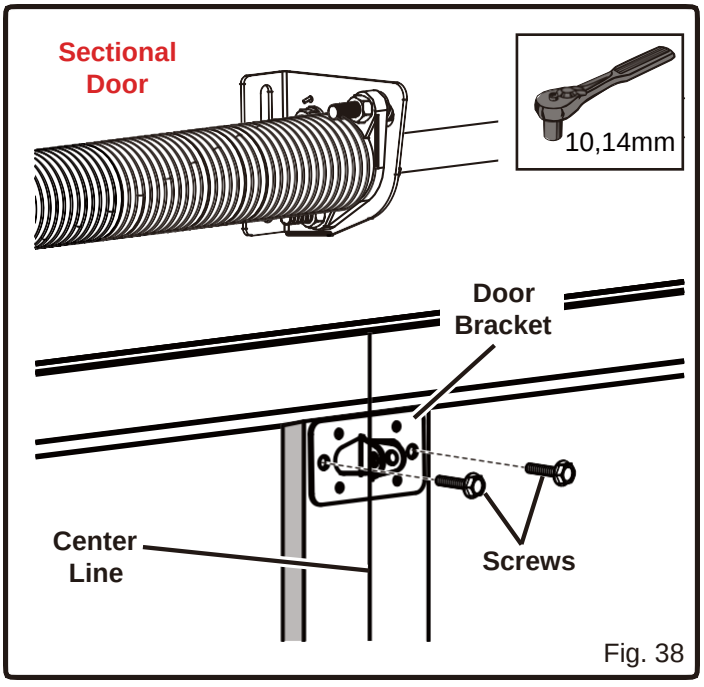



Fig. 38

# INSTALLATION

**NOTE:** For wooden doors, drill hole completely through the door and install bracket using bolts (not provided) and nuts (not provided), see figure 39.

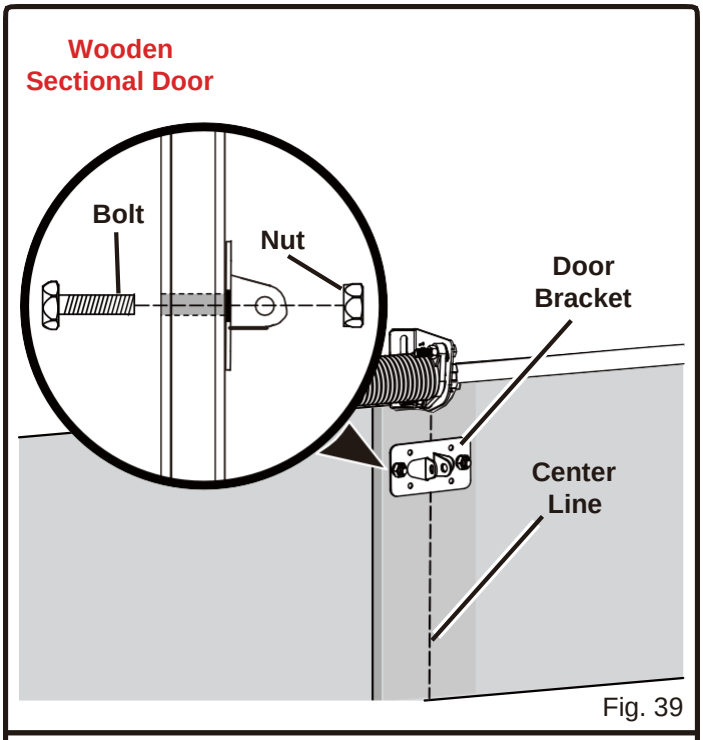



Fig. 39

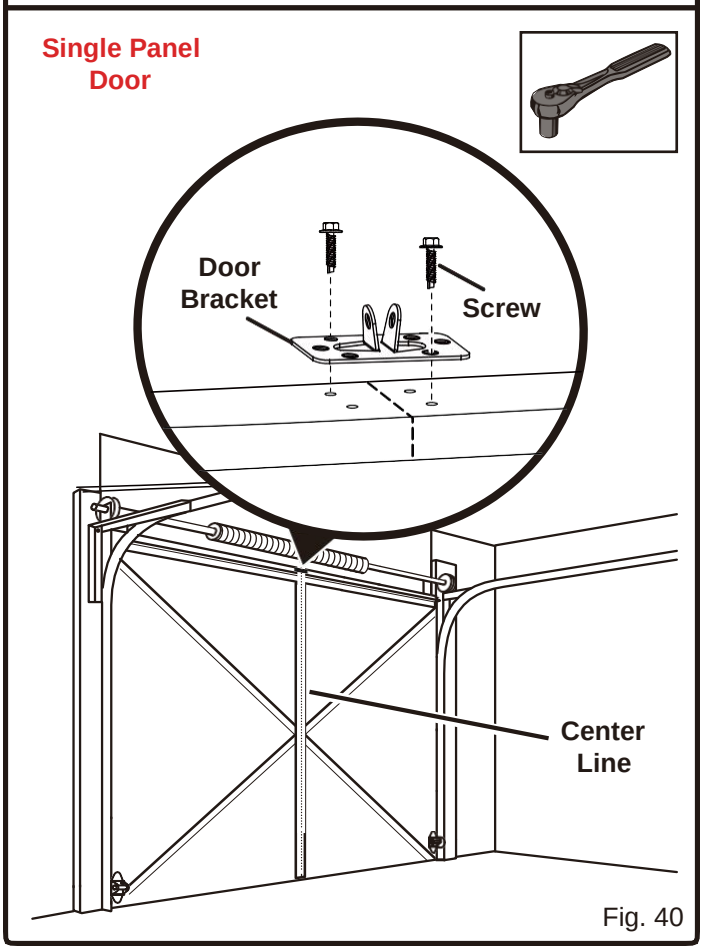



Fig. 40

**To install the bracket on single-panel doors:**

- Lower the garage door completely.
- Using a pencil and a level, draw a vertical line in the center of the top portion of the garage door.
- Extend the line across the top edge of the door.
- Place the door bracket on the top edge of the door and center it on the line.

  **NOTE:** The bracket can also be placed on the front upper portion of the door if necessary.
- Mark the holes in the bracket.
- Secure the bracket in place using screws. Tighten screws with a socket.

  **NOTE:** For wooden doors, drill hole completely through the door and install bracket using bolts (not provided) and nuts (not provided).

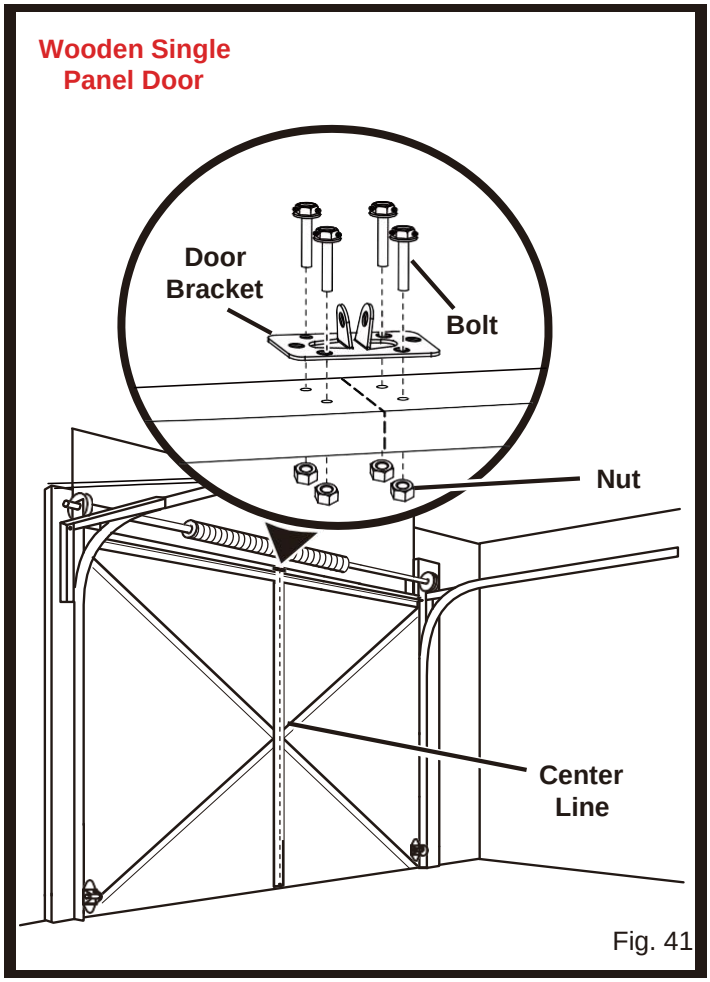



Fig. 41

# INSTALLATION

## CONNECTING DOOR BRACKET TO OUTER TROLLEY

See Figures 42 - 45.

- Locate the following items:

  Curved Door Arm

  Straight Door Arm

  Medium Clevis Pin

  Small Clevis Pin

  Hitch pins

  Bolts

  Lock Nuts

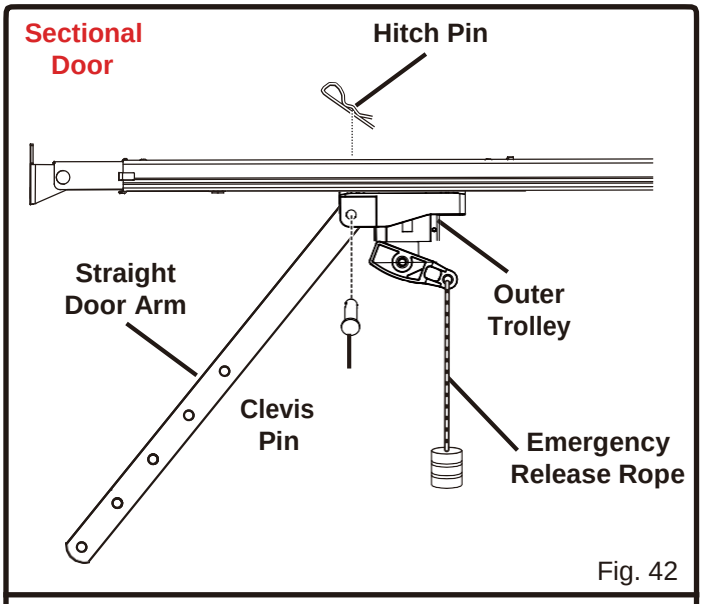



Fig. 42

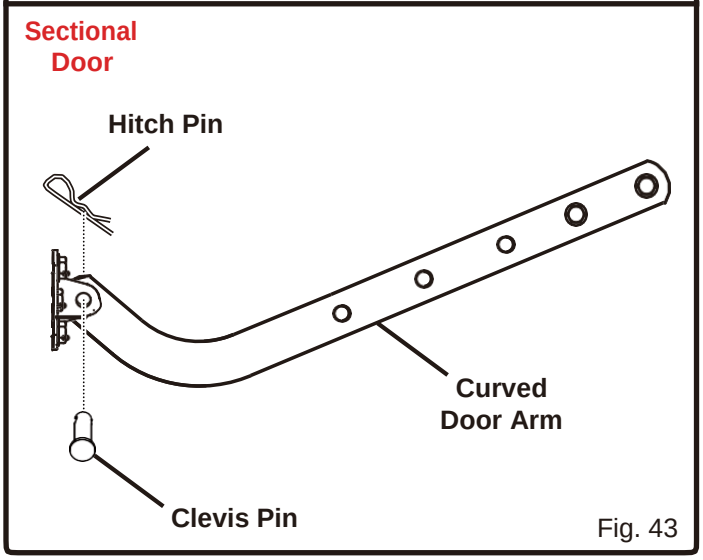



Fig. 43

**To connect sectional doors:**

- Lower the garage door completely.
- Pull the emergency release rope down and slide outer trolley toward the garage door.
- Secure straight door arm to the rear of the outer trolley using medium clevis pin and hitch pin.
- Secure curved door arm to the door bracket using small clevis pin and hitch pin.
- Bring the curved and straight arms together. Choose two sets of aligned holes and install bolts and nuts. Tighten bolts and nuts with a 14 mm socket.

  **NOTE:** For better rigidity, install fasteners in holes that are as far apart as possible.

  **NOTE:** If the holes in the arm do not align, remove the straight door arm and reattach it in the reverse position.
- If the straight door arm hangs too low after assembly, you can shorten the length of the arm by cutting off up to 1.8m

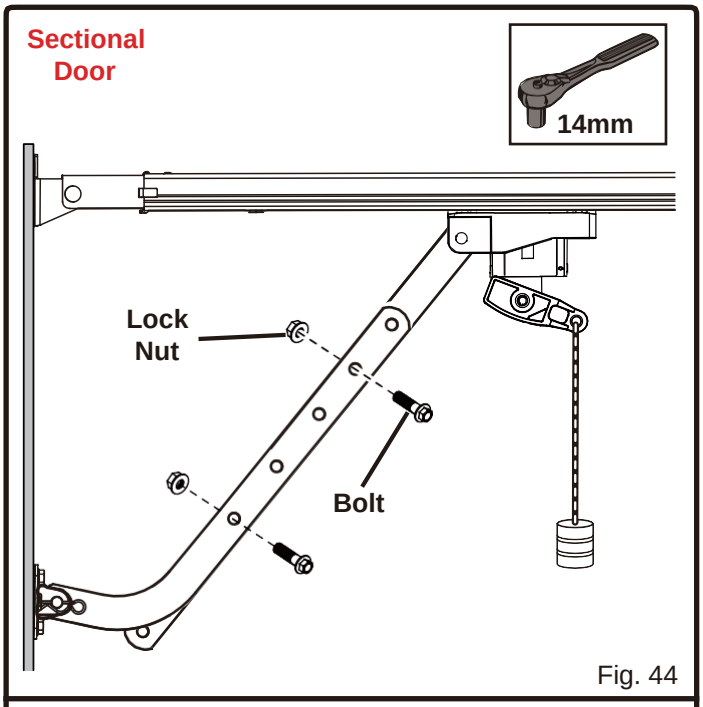



Fig. 44

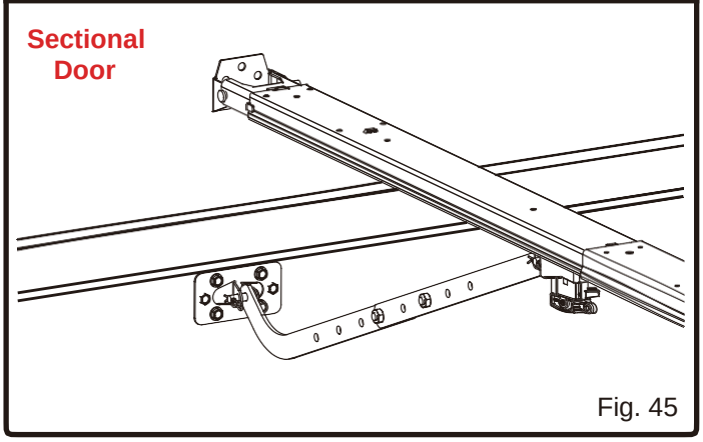



Fig. 45

# INSTALLATION

**To connect single-panel doors:**

See Figures 46 - 47.

- Lower the garage door completely.
- Pull the emergency release rope down and slide outer trolley toward the garage door.
- Place the curved and straight arms together and align the holes.
- Choose two sets of aligned holes and install bolts and nuts. Tighten bolts and nuts with a 14mm socket.

**NOTE:** For better rigidity, install fasteners in holes that are as far apart as possible.

- Secure straight door arm to the door bracket using small clevis pin and hitch pin.
- Secure curved door arm to the rear of the outer trolley using medium clevis pin and hitch pin.

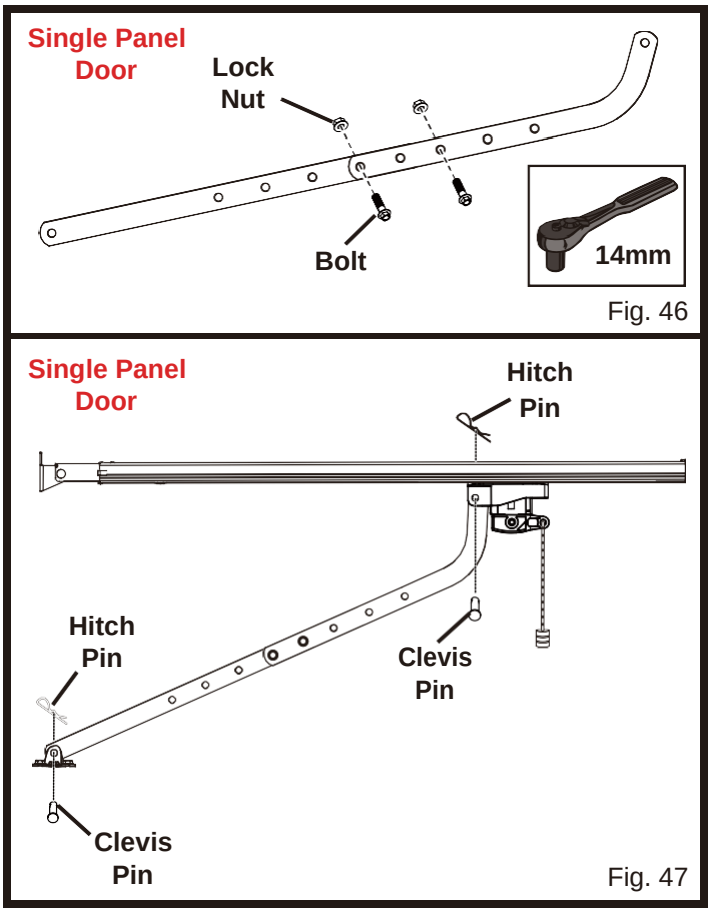



Fig. 46

Fig. 47

# OPERATION AND CONFIGURATION

## IMPORTANT SAFETY INSTRUCTIONS

### ⚠ WARNING:

### TO REDUCE THE RISK OF SEVERE INJURY OR DEATH:

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. Never let children operate, or play with door controls. Keep the remote control away from children.
3. Always keep the moving door in sight and away from people and objects until it is completely closed. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.
4. NEVER GO UNDER A STOPPED PARTIALLY OPEN DOOR.
5. Test door opener monthly. The garage door MUST reverse on contact with a 5 cm object (or a 5 by 10 board laid flat) on the floor. After adjusting either the force or the limit of travel, retest the door opener. Failure to adjust the opener properly may cause severe injury or death.
6. For products requiring an emergency release, if possible, use the emergency release only when the door is closed. Use caution when using this release with the door open. Weak or broken springs may allow the door to fall rapidly, causing injury or death.
7. KEEP GARAGE DOOR PROPERLY BALANCED. An improperly balanced door could cause severe injury or death. Have a qualified service person make repairs to cables, spring assemblies and other hardware.
8. This operator system is equipped with an unattended operation feature. The door could move unexpectedly. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.
9. **SAVE THESE INSTRUCTIONS.**

### ⚠ WARNING:

Do not allow familiarity with products to make you careless. Remember that a careless fraction of a second is sufficient to cause death or serious injury.

### ⚠ WARNING:

Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious death or personal injury.

### *NOTICE:*

Before each use, inspect the entire product for damaged, missing, or loose parts such as screws, nuts, bolts, caps, etc. Tighten securely all fasteners and caps and do not operate this product until all missing or damaged parts are replaced. Please contact customer service or an authorized service center for assistance.

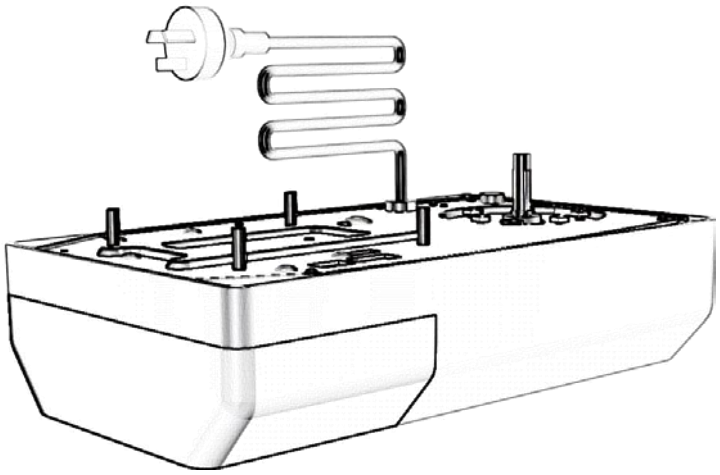


Fig. 48

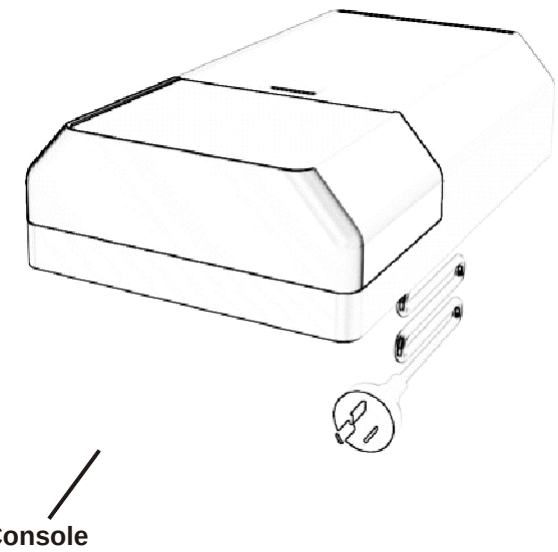
# OPERATION AND CONFIGURATION

**SETTING THE DOOR TRAVEL LIMITS**
See Figures 49 - 56

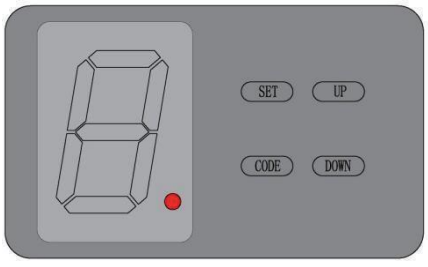
## NOTICE:

This task requires the garage door opener to be connected to a power source.

The console on your garage door opener makes it easy to set the open and close positions of your door. The opener will atomically sense the weight of your door and provide the force required to open and close it.

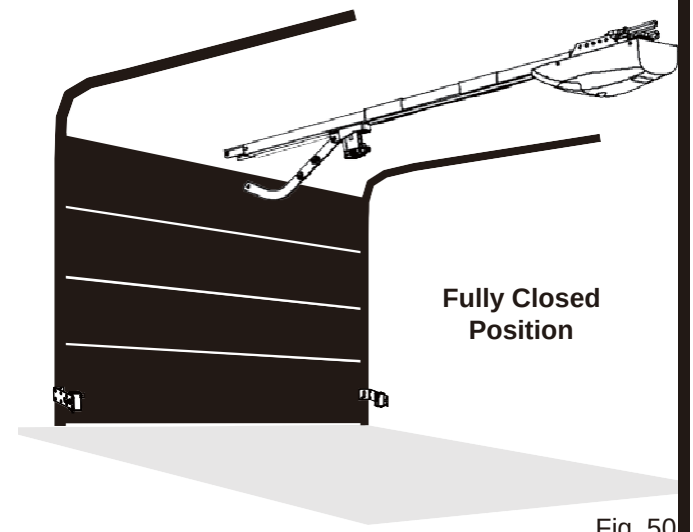


**Console**



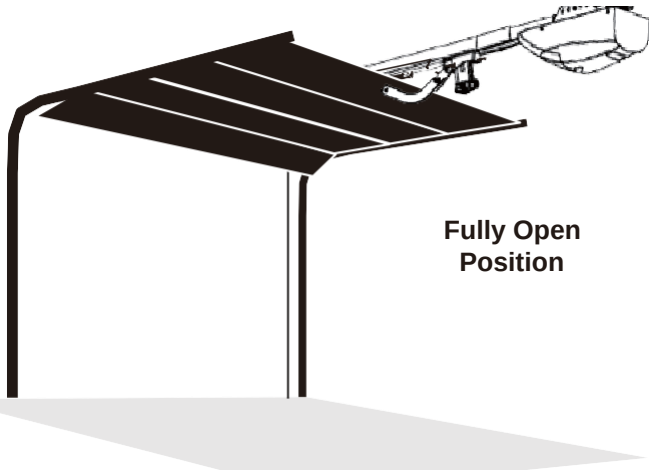

**Console**

Fig. 49



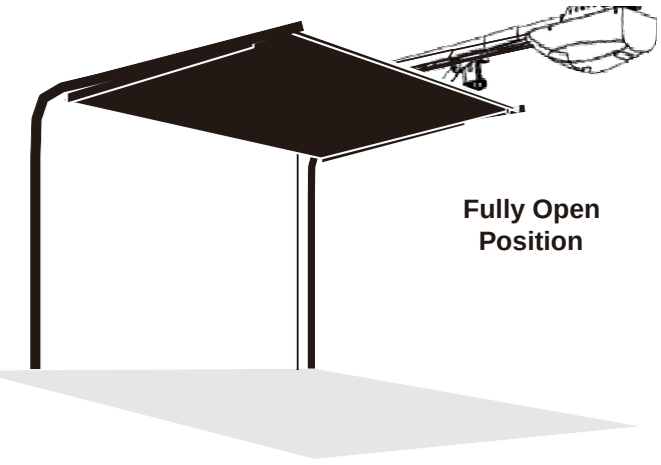
**Fully Closed Position**

Fig. 50



**Fully Open Position**

Fig. 51



**Fully Open Position**

Fig. 52

# OPERATION AND CONFIGURATION

When a garage door is fully closed, there should not be any space between the door and the garage floor. When a door is fully open, it should provide enough clearance for vehicles to travel safely underneath it. Use caution when setting the open position for single-panel garage doors. If a single- panel door is opened so far that it begins to slant backwards, excessive bouncing and jerking may occur as the door moves, see figure 53.

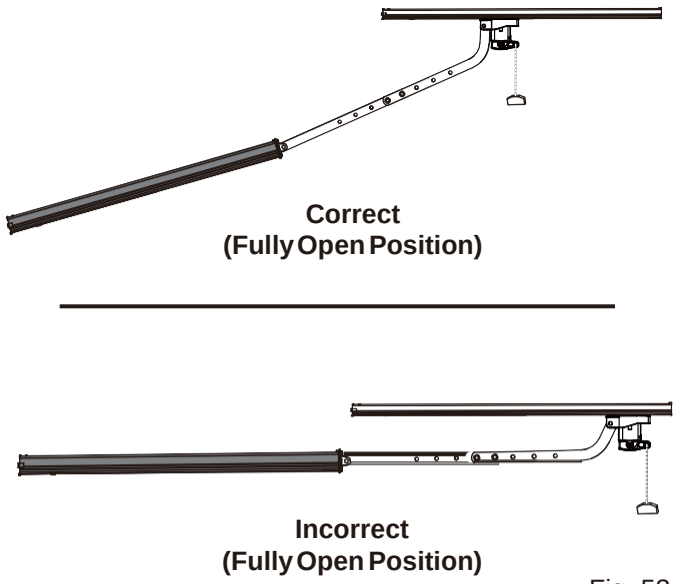



Fig. 53

## *NOTICE*:

Do not open or close the garage door using the indoor keypad or remotes until the travel limits have been properly set. Doing so could cause severe damage to the garage door or the garage door opener.

- Connect the garage door opener to an AC power supply.

**NOTE:** Make sure the power supply is normal household voltage, 235 volts, AC only, 50/60 Hz.

### Before setting the travel limit:

- Pull the emergency release rope down and manually open the garage door until the outer trolley engages the inner trolley.

## ⚠ WARNING:

Confirm that the inner trolley is in the orientation shown in figure 54. An incorrectly installed inner trolley could result in the garage door opener operating in the opposite direction from its intended movement and result in death or serious personal injury from the moving garage door.

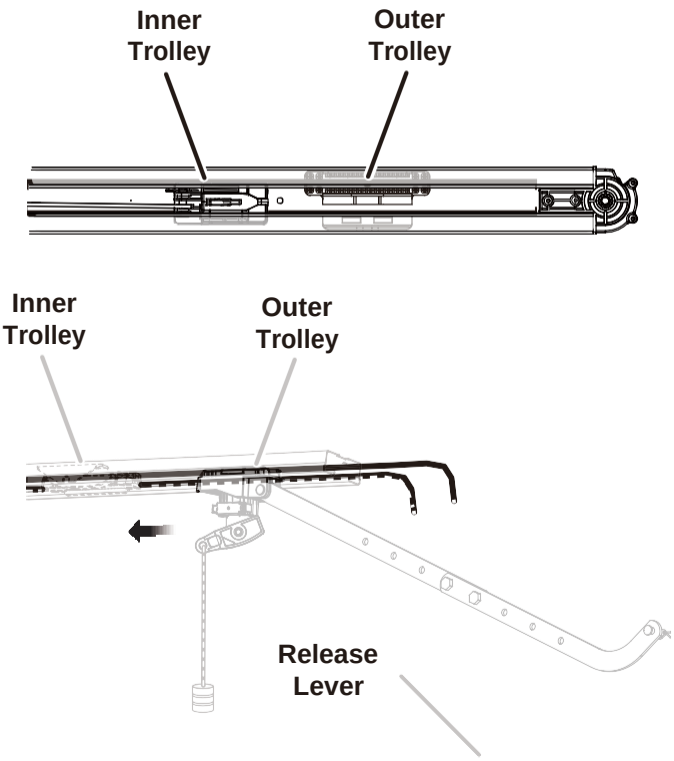



Fig. 54

Once you begin setting the travel limits, you have 20 seconds to complete each step. If a step is not completed within 20 seconds, travel limit information for the open and closed position will be erased.

# OPERATION AND CONFIGURATION

## ⚠WARNING:

If you are not able to first set the travel limit for the open position, do not skip ahead and attempt to set the travel limit for the closed position.
If the travel limits do not set and the door does not move in the intended direction as described in this section of the Operator's Manual, do not use the garage door opener and contact customer service or a qualified service person for assistance. The use of a garage door opener that is not operating the garage door in the correct direction can kill or seriously injure someone in the moving door's path.

**To set the travel limit:** See Figure 55-56.

- Open the console door.
- Press **SET** button and hold on until **LED** displays figure **"1".**
- Press and hold **UP** button to move the garage door to the open position.
- For fine adjustments, press and release **UP** or **DOWN** buttons to determine the final open limit position then press **SET**. The **LED** display figure **"2"** automatically.
- Press and hold **DOWN** button to move the garage door to the closed position.
- For fine adjustments, press and release **UP** or **DOWN** buttons.
- Once the door is in the closed position, press **SET**

**The opener will operate a cycle automatically to remember the limit position and the opening & closing force.**

**NOTE:** The garage door opener will not respond to the remotes or keypads until the travel limits have been set.

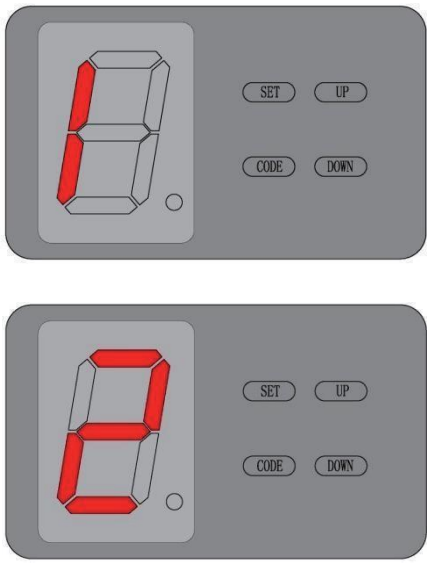



Fig. 55

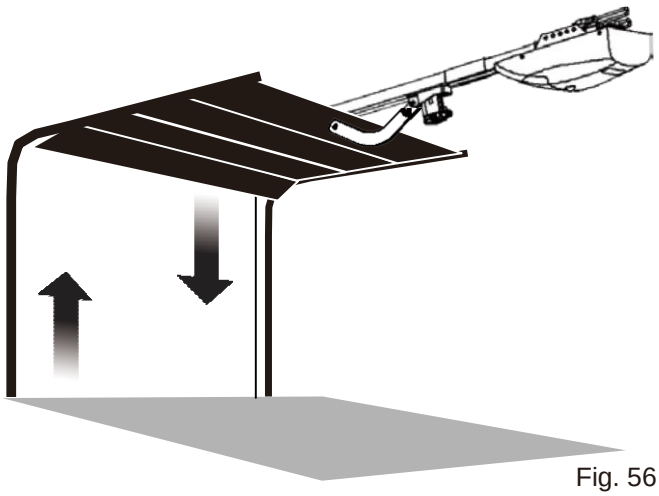


Fig. 56

## TESTING THE AUTOMATIC REVERSAL SYSTEM

See Figure 57-58.

# OPERATION AND CONFIGURATION

## ⚠WARNING:

**DO NOT** operate the garage door opener unless the automatic reversal system is working correctly. Following this rule will reduce the risk of death or serious personal injury.

## NOTICE:

This task requires the garage door opener to be connected to a power source.

- Connect the garage door opener to an AC power supply.

**NOTE:** Make sure the power supply is normal household voltage, 235volts, AC only, 50/60 Hz.

- Press and release the **UP/DOWN** button on the power head to raise the garage door.
- Place a 5cm board (approx. the size of a 5x10 laid flat) on the garage floor beneath the door
- Press and release the **UP/DOWN** button on the power head to lower the garage door. When the door strikes the board, it should reverse direction immediately.
- If the garage door reverses direction after contacting the board, the reversal system is working properly and no adjustments are needed.
- If the garage door stops before striking the board or strikes the board and then stops, increase the travel limit for the closed position and repeat the test.
- If the automatic reversal system continues to fail, contact customer service or a qualified service person for assistance.

### Safety reverse force adjustment:

- Press **SET** button and hold on until **LED** displays figure **“3”.**
- 1~9 level force: The Maximum force is 9 and the minimum is 1 (This is the standard version)
- 1~3 level force: The Maximum force is 3 and the minimum is 1 (This is the optional version upon request)
- Press **UP** button to increase force, and **DOWN** button to decrease the force. Press **SET** button to confirm desired force rate.

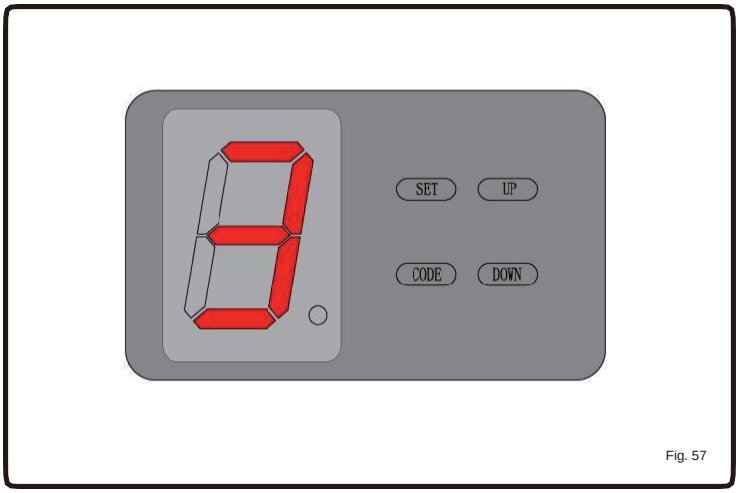


Fig. 57

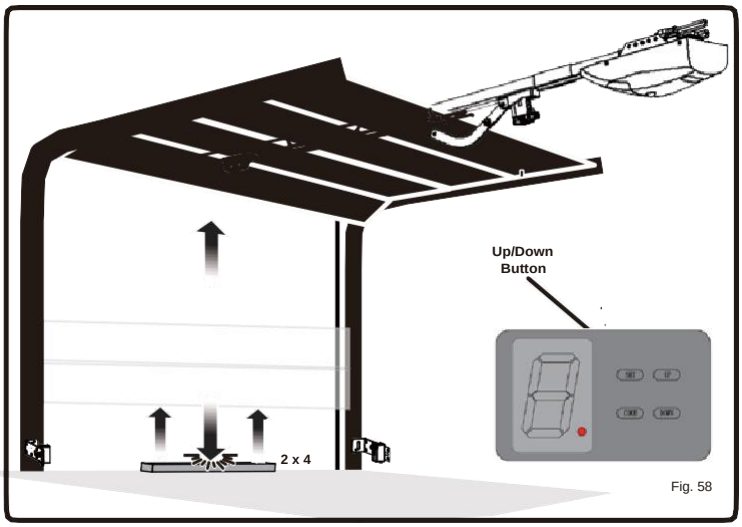


Fig. 58

# OPERATION AND CONFIGURATION

## Auto-close setting

See Figure 59.

- Press **UP** button and hold on until the LED display figure **"0"**
- Press **UP** button once, the auto-close time will increase 1 level. Total 1~9 levels. The maximum time level is 9 (every level is equal to 1 minute).
- Press **DOWN** button once, the auto-close time will decrease 1 level. The display number will be a cycle of 0~9. The auto close function will be turned off when the LED display figure **"0"**
- Press **SET** button to confirm.

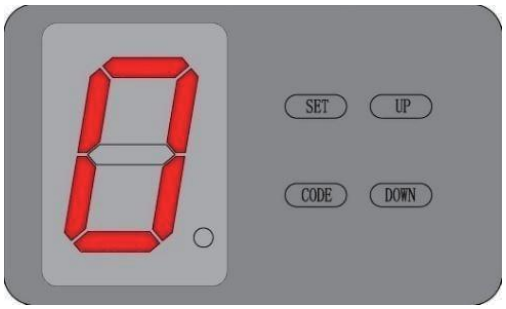



Fig. 59

**NOTE:** When the auto-close time activated, the full opened door will auto-close after the set time

## Safety sensor setting

See Figure 60-61.

- Press **DOWN** button and hold on until the LED display figure **"11"**
- Press **UP** button the LED displays "H", Safety sensor function is available.
- Press **DOWN** button the LED display "**11**" to cancel this function.
- Press **SET** button to confirm.

**NOTE:** When need to activate safety sensor function, the safety sensor need to be connect firstly.

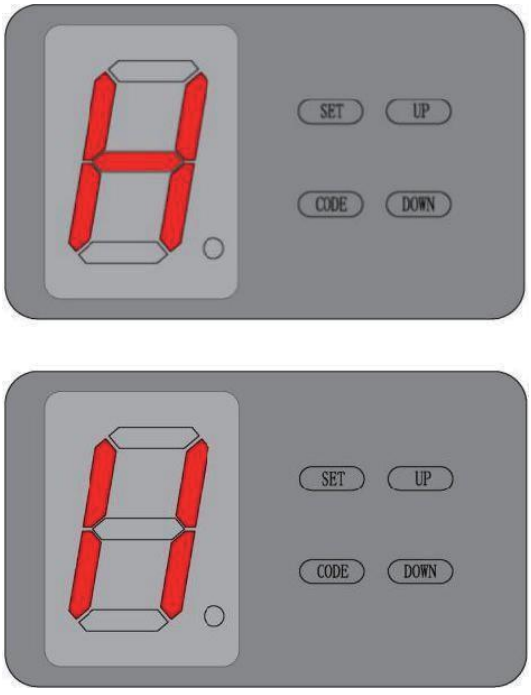
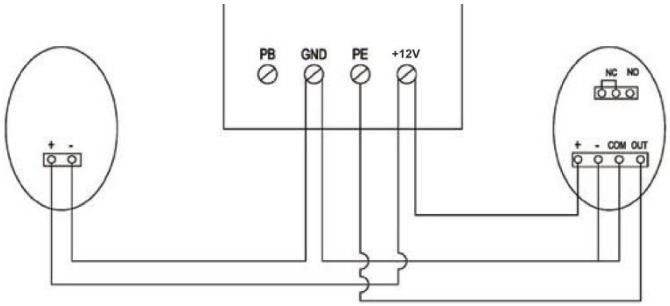



Fig. 60

**NOTICE:**

If safety sensor function is activated, if the safety sensor is not connected, the door will not close.



# REMOTE CONTROL

See Figure: 62-65

- The garage door opener cannot be operated with a remote until travel limits have been set.

1

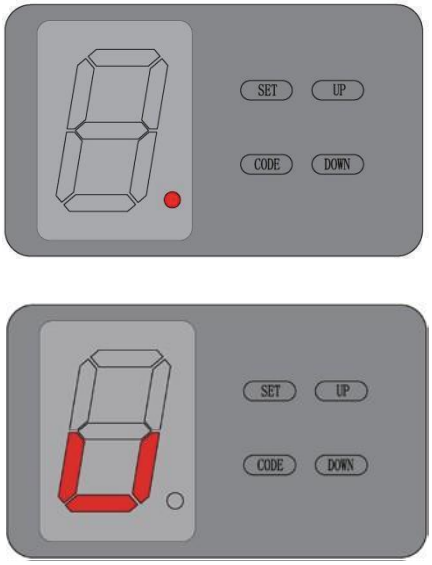



Fig. 62

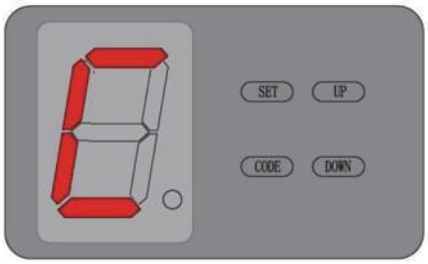



Fig. 63

## NOTICE:

Repeat this process to sync the garage door opener with an additional remote.
Multiple buttons (channels) on one remote cannot both be paired to the same garage door opener.

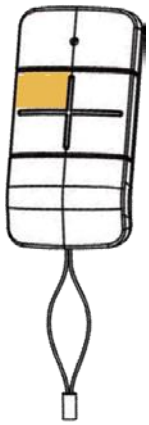


Fig. 64

## PAIRING THE REMOTE

- Press CODE button and hold on until the LED dot flash.
- Press any button on the remote, the dot will be off.
- Press the button again, the dot will fast flash, then LED display" 11"
- The remote are able to control the open, close, stop of the garage door driver.

## ERASE ALL TRANSMITTER CODES

- Press **CODE** button more than 8 seconds (the **LED** dot flashes) until **LED** display **"C"**. All the stored codes will be erased.

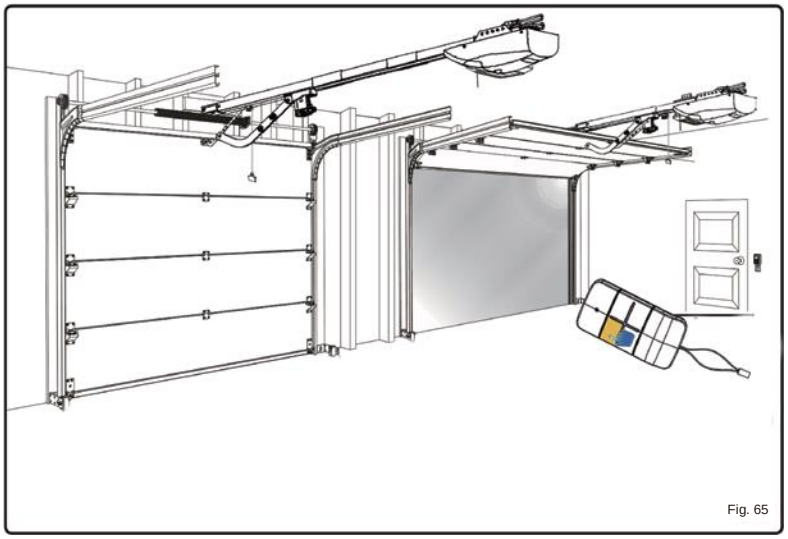


Fig. 65

# SPECIAL FUNCTION AND APPLICATION

## O/S/C TERMINAL

See Figure: 66

- Connecting a touch off switch to this terminal, you can use switch inside the garage to control the open/stop/ close of door when maintaining or the transmitter is lost.

## FLASH LIGHT FUNCTION

See Figure: 67

- There are corresponding interfaces for this function and provide 24V-35V flash light voltage. Connect the flash light with DC 24V-28V, current ≤ 100mA. When use AC 200V power flash lights, please match an adapter, and wiring as required.

## PASS DOOR PROTECTION

See Figure: 68

- The function ensures that the door can't be opened until the small passing door is closed. The door panel won't be damaged.

1

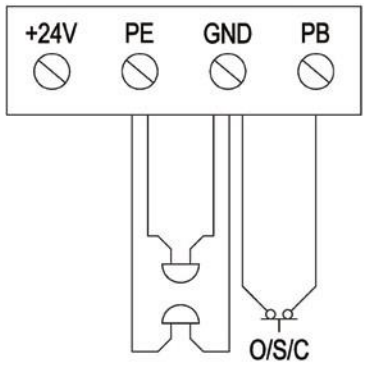



Fig. 66

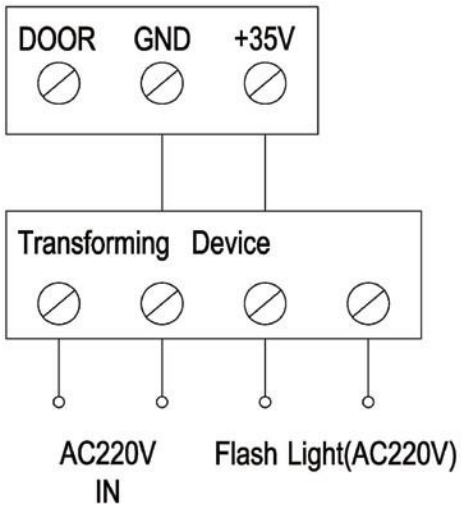



Fig. 67

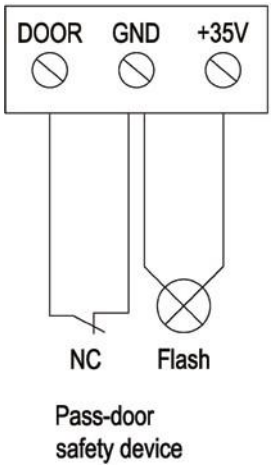



Fig. 68

# TECHNICAL SPECIFICATION

| | 600N | 800N | 1000N | 1200N |
|---|---|---|---|---|
| **Power Input** | 200W | 235W | 245W | 260W |
| **Input Voltage** | 220V-240V AC 50/60Hz (Subject to per customer's area) | | | |
| **Light Time** | 3 minutes | | | |
| **Working Temperature** | -20 -40 °C | | | |
| **Relative Humidity** | <90 % | | | |
| **Max Force** | 600N | 800N | 1000N | 1200N |
| **Rated Force** | 300N | 350N | 400N | 450N |
| **Reception Frequency** | 433.92MHz or according to per customer's requirement | | | |
| **Decoding** | rolling code | | | |
| **Transmitter Power** | 23A 12V Battery | | | |
| **Lamp** | LED, 12V DC | | | |

## ⚠ WARNING:

This product may contain chemicals, including lead known to cause cancer, birth defects or other reproductive harm. ***Wash hands after handling.***

# TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|---|---|---|
| Opener does not operate | 1. Power failure<br>2. Connecting wire between transformer and main board loosen | 1. Check the attaching plug or power supply<br>2. Open the cover and reconnect transformer and main board |
| Opener does not operate, "_" on display | Opening and closing limit has not been set | Make the travel limit setting according to the instruction |
| Only opening allowed, cannot be closed | Photocell is in action or activated without connecting | Check photocell and clear possible objectives. Cancel the function if photocell is not connected |
| Cannot open or close the door by remote control , but can by wall switch | 1. Remote control is not being learnt<br>2. The lock function has been activated by chance | 1. Coding the remote control according to the instruction<br>2. Disengage the lock function《According to relevant section of the instruction 》 |
| Opening and closing exchange | Motor wire connected in contrary way | Cut off power supply, open the cover carefully and adjust the symbol, then reset the travel limit |
| The door cannot be fully closed but reversed 15-40cm | Opener auto reversed on account of the door has not been installed perfectly | 1. Adjust the door which gets stuck or fixed too tight<br>2. Reset the travel limit<br>3. Increase the safety reverse force according to the instruction |
| The door cannot be opened or closed by remote control or wall switch when the opener has pass door function | 1. Pass door has not been closed or protection circuit opened<br>2. Shorting stub of pass door connector get loose before installing the pass door | 1. Ensure that the pass door protection circuit is closed.<br>2. Connect the loosen shorting stub |
| Remote control is out of use or has short remote control distance | 1. Battery has been run out<br>2. Aerial goes off or not stretched properly<br>3. Any radio interference nearby | 1. Replace battery<br>2. Check and stretch aerial<br>3. Eliminate source of interference |
| New remote control cannot be learnt | 1. Full memory in the remote control<br>2. New remote control cannot be recognized. | 1. Clear all memories and re-coding《Press "CODE" key over than 8 seconds until "C" shows on display 》 |

# TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|---|---|---|
| The opener hums briefly, then won't work | Clutch | 2. Use the remote control which our manufactory supply<br>Check that the door is not in manual release mode |
| The opener hums briefly, after seconds, the sounds disappear | 1. Spring<br>2. The rail | 1. The garage door springs may be broken or the spring lose balance<br>2. Check the rail is unjammed |
| The opener won't operate ue to power failure | Check the clutch | Use the manual release handle to disconnect the door. The door can be opened and closed manually. When power is restored, re-engage the opener. |
| The garage door opens and closes by itself | 1. Check the transmitter<br>2. Check the wireless wall switch | 1. Ensure that all transmitter push buttons are off<br>2. If the wired wall switch (optional accessory) is installed, remove the bell wire from the wireless wall switch terminals. If this solves the problem, the wireless wall switch is faulty (replace), or there is an intermittent short on the wire between the wired wall switch and the opener.<br>3. Clear memory and re-program all wireless wall switch and transmitters. |
| Displaying EI | 1. Main sensor hall abnormal<br>2. Main sensor hall not connected<br>3. Main sensor hall bad contact | 1. Reconnect main sensor hall to ensure it is well connected.<br>2. Replace a new main sensor hall |
| Displaying E2 | 1. Secondary sensor hall abnormal<br>2. Secondary sensor hall not connected<br>3. Secondary sensor hall bad contact | 1. Reconnect secondary sensor hall to ensure it is well connect.<br>2. Replace a new secondary sensor hall |
| Displaying E3 | Main sensor hall and secondary sensor hall are connected reversely. | Reconnect main sensor hall and secondary sensor hall to ensure it is connected correctly. |

# TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|---|---|---|
| Displaying E4 | 1. Shorting stub of pass door connector get loose<br>2. Shorting stub of pass door connector is not connected<br>3. Pass door has been closed or protection circuit opened | 1. Connect the loosen shorting stub<br>2. Connect the shorting stub<br>3. Ensure the pass door protection circuit is closed. |
| Displaying E5 | Wrong motor are assembled | Choose to use manufacturer supplied motor |
| Displaying E6 | Meeting obstacle when opening door | Check the door if there is any position stuck |