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**THE FINEST ENTRANCES TO THE FINEST PROPERTIES**

**OWNER'S MANUAL CONTAINS:  
INSTALLATION, OPERATING,  
MAINTENANCE & WARRANTY  
INSTRUCTIONS.  
FOR RESIDENTIAL USE ONLY.**

**A2000  
A3000**



A2000  
A3000



A2000

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## OWNER'S MANUAL CONTENTS

1.	INTRODUCTION	3
2.	ADVANCED FEATURES	3
3.	IMPORTANT SAFETY INFORMATION	3
4.	TOOLS	4
5.	GARAGE	4
6.	OPERATOR PACKAGE CONTENTS	6
7.	IMPORTANT INSTALLATION INSTRUCTIONS	7
8.	INSTALLATION STEPS	8
8-1.	MEASURE AND MARK DOOR AREA	8
8-2.	INSTALL HEADER BRACKET	8
8-3.	INSTALL DOOR BRACKET TO DOOR	9
8-4.	ATTACH RAIL TO OPERATOR HEAD	10
8-5.	ATTACH RAIL TO HEADER BRACKET	11
8-6.	POSITION OPERATOR FOR MOUNTING	11
8-7.	MOUNT OPERATOR TO CEILING	12
8-8.	CONNECT ARM TO DOOR AND TROLLEY	12
8-9.	RAIL BUMPER INSTALLATION	13
8-10.	CHECK EMERGENCY RELEASE	13
8-11.	INSTALL THE PHOTO EYE SENSOR SAFETY SYSTEM	14
8-12.	CONTROL PANEL	14
9.	CONTROL UNIT CONNECTIONS	15
10.	CONNECT TO POWER	16
11.	INITIAL SYSTEM SET UP	17
12.	ADVANCED SETTINGS	19
13.	TRANSMITTERS	23
14.	OPERATION OF YOUR OPERATOR	25
15.	HOMELINK® TRANSCIVER	25
16.	TEST SAFETY REVERSAL	26
17.	ALIGN AND TEST PHOTO EYE SENSORS	26
18.	APPLY LABELS TO INSIDE OF GARAGE	27
19.	ATTACH OWNER'S MANUAL TO WALL	27
20.	IMPORTANT SAFETY INSTRUCTIONS	27
21.	TENSION ADJUSTMENT	28
22.	RAIL LENGTH ADJUSTMENT - FOR PROFESSIONAL INSTALLERS ONLY	28
23.	RAIL MODELS AND ASSEMBLY PARTS (A2000 OPERATOR)	29
24.	RAIL MODELS AND ASSEMBLY PARTS (A3000 OPERATOR)	30
25.	ACCESSORIES	31
26.	TROUBLESHOOTING - FOR PROFESSIONAL INSTALLERS ONLY	32
27.	MAINTENANCE AND ADJUSTMENTS	34
28.	MAINTENANCE RECORD	35



## 1. INTRODUCTION

Congratulations on purchasing your Access Garage Door Professional Series Garage Door Operator System (GDO, the most innovative operator available today. This stylishly designed digital operator with a wide range of accessories is engineered to provide the smoothest, quietest and safest operation to compliment any application. Advanced technology results in the operator being capable of easily moving almost any properly balanced sectional door, and at the same time providing state-of-the-art safety features to detect obstructions and to stop and reverse the door, thus helping to protect persons and property near the door.

## 2. ADVANCED FEATURES

This operator includes numerous state-of-the-art features to provide you, the user, with years of trouble-free, convenient, and safe use of your automatic garage door operator.

- **Advanced Digital Operating System EOS (Easy Operating System):** The EOS digital system provides a user friendly system set up. The system set up comprises of two programming levels, an "Initial Level" and an "Advanced Level". The EOS system requires only the initial set up parameters. All other operating parameters are learned and set automatically by the system. In addition, the system optimizes all parameters with every cycle for a more efficient operation by the GDO. This shorter parameter set up provides a quicker and more efficient installation.
- **New LED Lighting System:** Provides a green energy efficient lighting approach to conventional incandescent lighting. Added convenience requires no light bulb replacement.
- **Precision Controlled DC Motor, Complete with Automatic Soft Start and Soft Stop Feature:** The operator automatically detects when your door is almost fully closed or fully opened, and gradually slows the door down before it reaches its fully closed or opened position. During start-up, the door starts moving slowly and gradually ramps up to full speed for the full travel of your door. This reduces the possible damaging effects of the sudden starts and stops associated with some other operators, and results in the smooth operation and increased service life of your door and hardware.
- **Built-In Safety Features:** Including patented drive system that delivers only the optimum power needed to move your door safely - Every time!
- **Modular Antenna Concept (patented):** Plug-in your choice of frequency module.
- **Photo Eye (Infrared) Safety System:** State-of-the-art infrared beam system helps detect obstructions in the path of your door and automatically reverses closing door travel, helping to protect persons and property near the door.
- **Convenient Status Display:** To indicate the status of your door operator at any time. Especially useful if troubleshooting is necessary.
- **Numeric Parameter Display Setting:** Provides easier and quicker setup.
- **Numeric Error Code Display:** Provides quicker troubleshooting.
- **Quiet, Smooth Operation:** Precision engineering and carefully selected materials result in extremely smooth and quiet operation, unmatched by conventional garage door operators.
- **LCD Display System Control:** Easy navigation through levels and menus.
- **Maintenance and Service Scheduling:** Optimizes operator service life and trouble-free performance.
- **Optional Battery Backup System:** Guarantees access in and out of your garage, during power outages.
- **The EOS platform unifies all Marantec Products by design.**
- **Meets all UL 325 requirements.**

## 3. IMPORTANT SAFETY INFORMATION

This manual is essential to the safe and proper installation, operation, and maintenance of your operator. Read and follow all guidelines and operating instructions before the first use of this product. Store the manual in a safe, easily accessible location.

### **WARNING**

*Operate the garage door operator at 120V, 60Hz to avoid operator damage. Garage doors are heavy, moving objects. When coupled with an automatic operator, electrical power is also present. If not properly installed, balanced, operated, and maintained, an automatic door can become dangerous and cause serious injury or death. Please pay close attention to the WARNING and CAUTION notices that appear throughout this manual. Failure to follow certain instructions may result in damage to the door or door opener, or may result in severe injury or death to yourself or others.*

#### **WARNING**

*WARNING means that severe injury or death could result from failure to follow instructions.*

**Mechanical**

#### **WARNING**

*WARNING means that severe injury or death could result from failure to follow instructions.*

**Electrical**

#### **CAUTION**

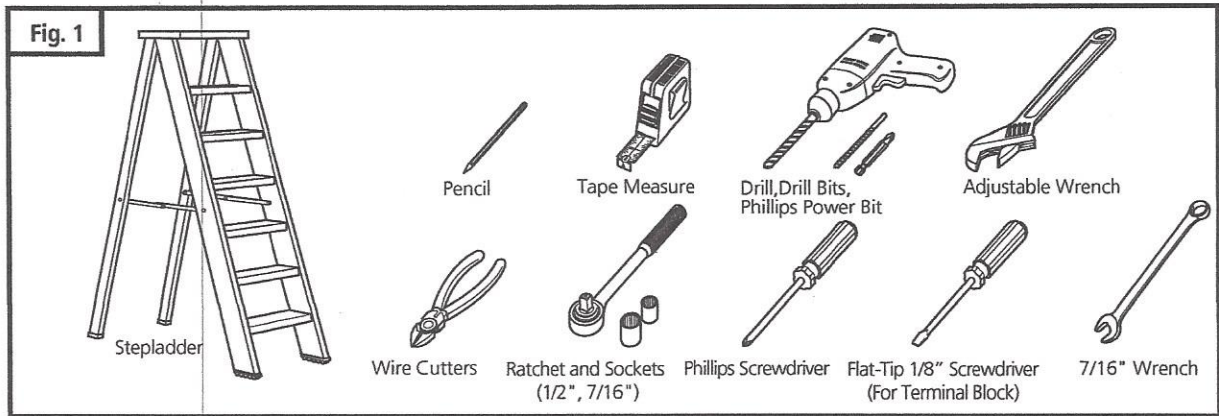
*CAUTION means that property damage or injury could result from failure to follow instructions.*



## 4. TOOLS

The instructions will refer to the tools shown below for proper installation, adjustment, and maintenance of the garage door operator. Additional tools may be required depending on your particular installation.

Fig. 1



## 5. GARAGE

### ⚠ WARNING ⚠

*A garage door is a heavy moving object and can cause serious injury or death. An unbalanced door might not reverse when required, and can increase the risk of injury. If your garage door is out of balance, or if it binds or sticks, call for professional garage door service. Garage doors, springs, pulleys, cables, and hardware are under extreme tension and can cause serious injury or death.*

*Do not try to adjust them yourself. Ropes left on a garage door could cause someone to become entangled and could kill them. Remove all ropes connected to the door before installing your operator.*

Take a moment to survey your garage and garage door.

- Is there an access door besides the garage door? If not, you should install an emergency key release kit.
- With the garage door closed, check alignment of door and garage floor. The gap, if any, should be no more than 1/4". If the gap is larger than this, repair floor or door before installing operator.
- The operator is intended for installation on a properly balanced and adjusted garage door. **DO NOT INSTALL IF DOOR IS UNBALANCED OR BROKEN.**
- Check balance of door in mid travel and during full range of opening and closing. Lift the door about half way, as shown in Fig. 2 & 3. Release the door. It should remain in place, supported by its springs. Raise and lower the door fully to check for binding or sticking.
- If door is out of balance or needs repair, **DO NOT ADJUST IT YOURSELF. CALL A QUALIFIED GARAGE DOOR SERVICE PROFESSIONAL** to adjust your door.
- If your door is over 7 ft. high, you will need a longer rail. See section 6 "Rail Assembly" on p. 6 of this manual for availability of longer rails.

Fig. 2

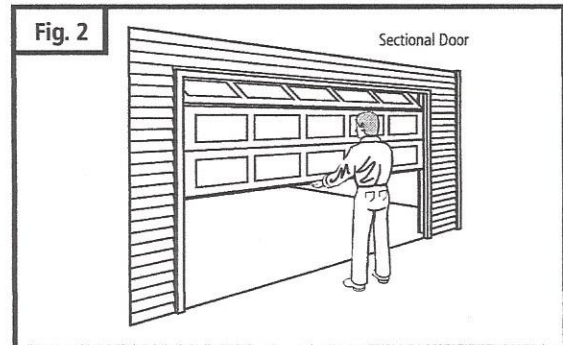
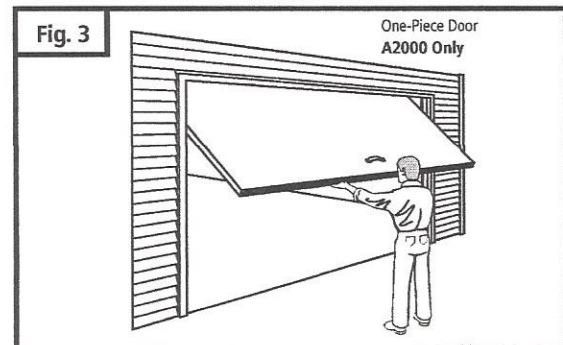


Fig. 3



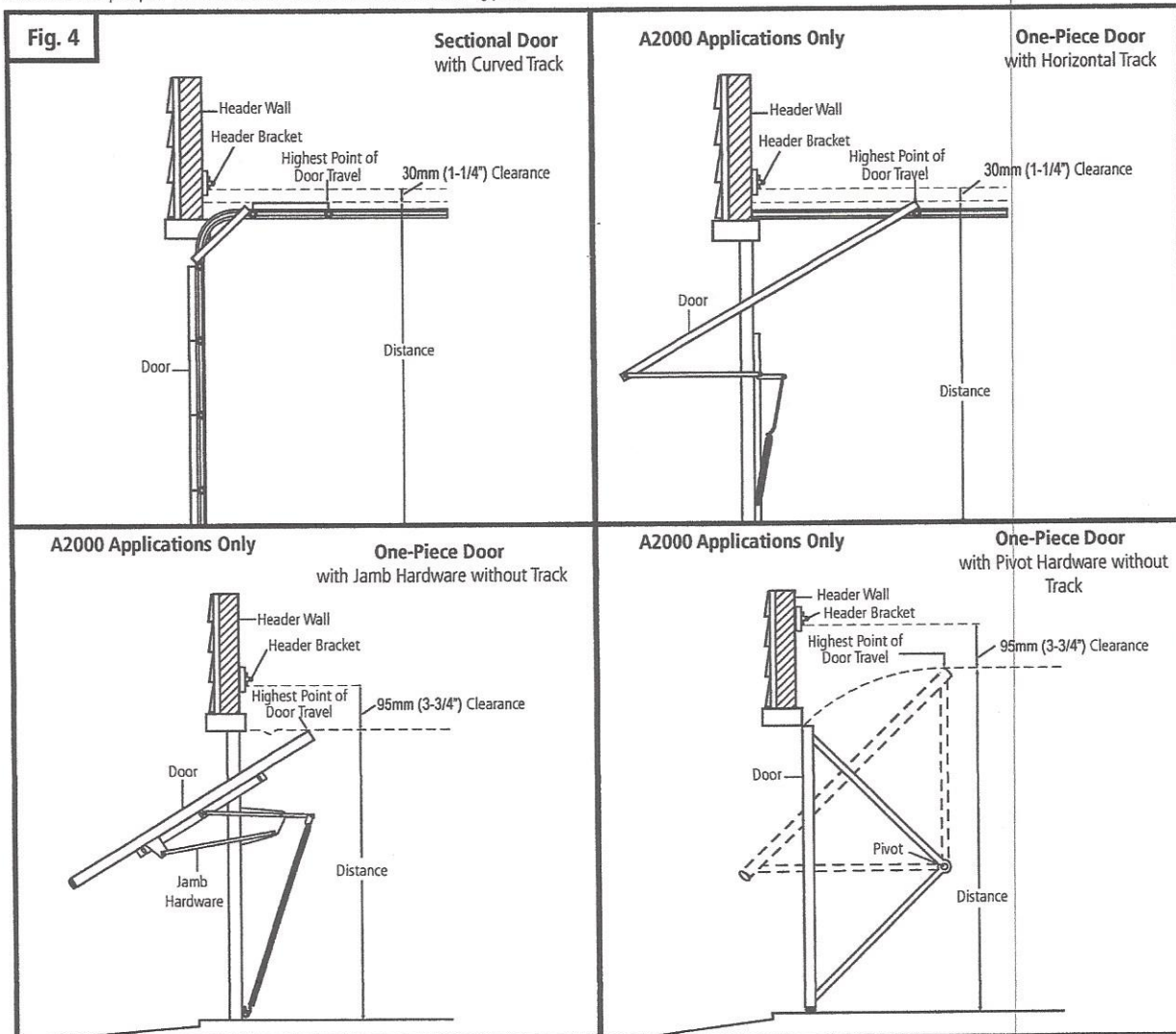
### ⚠ CAUTION ⚠

*To prevent damage to steel, aluminum, fiberglass or glass panel doors, always reinforce the inside of the door both vertically and horizontally with steel or angle iron bracing.*

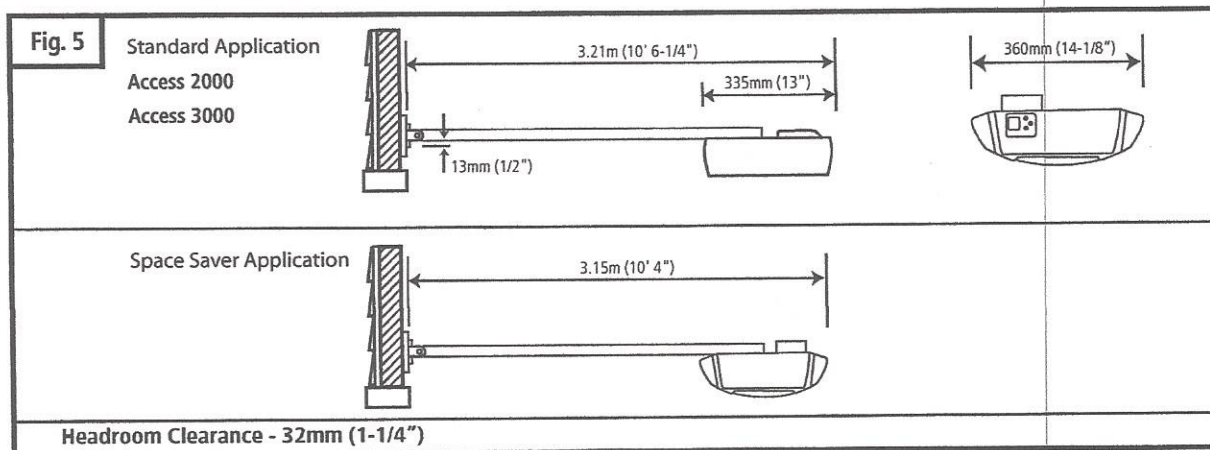
*The best solution is to follow the instructions for your particular garage door or contact the garage door manufacturer for proper reinforcement instructions.*

## 5. GARAGE (cont'd)

Check the type of door construction you have. The information contained in the figures below will be referred to later in the manual for proper installation on the different door types.



### GARAGE DOOR OPERATOR SYSTEM OVERALL DIMENSIONS (7' DOOR)

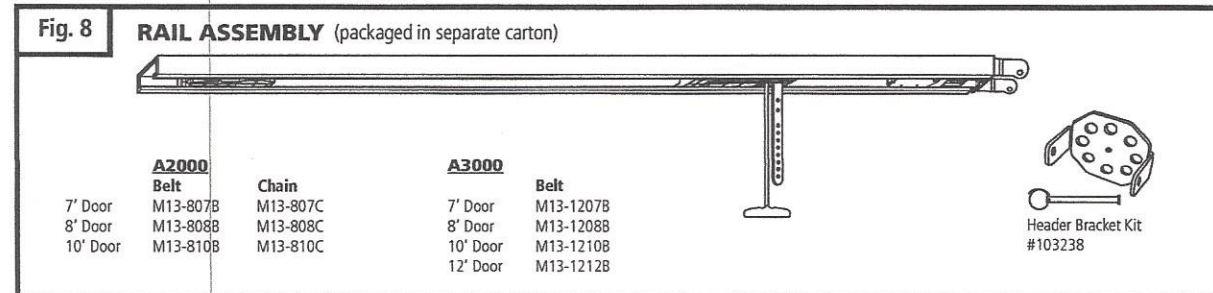
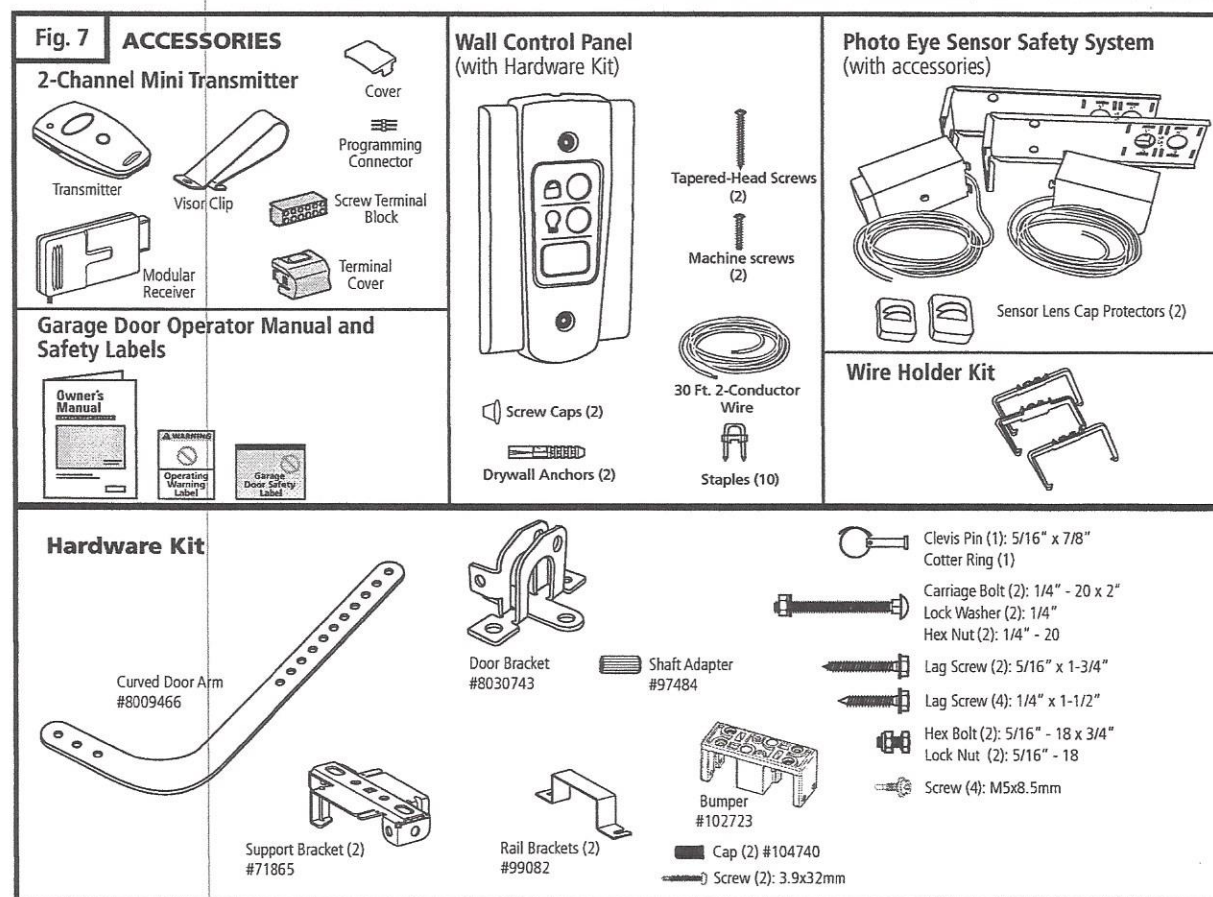
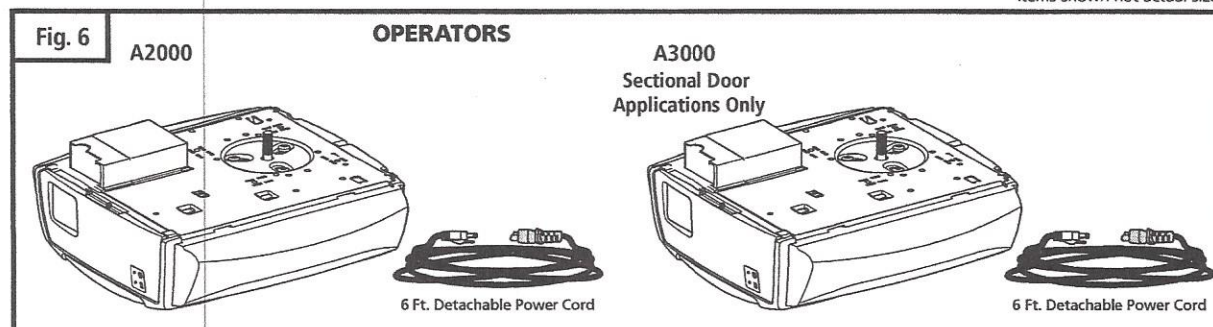




## 6. OPERATOR PACKAGE CONTENTS

The following items are included with your Garage Door Operator (GDO). All hardware components are located in the GDO carton. The accessories are packaged with their respective hardware in separate packs for ease of identification and use.

Items shown not actual size.



## 7. IMPORTANT INSTALLATION INSTRUCTIONS

### IMPORTANT INSTALLATION INSTRUCTIONS

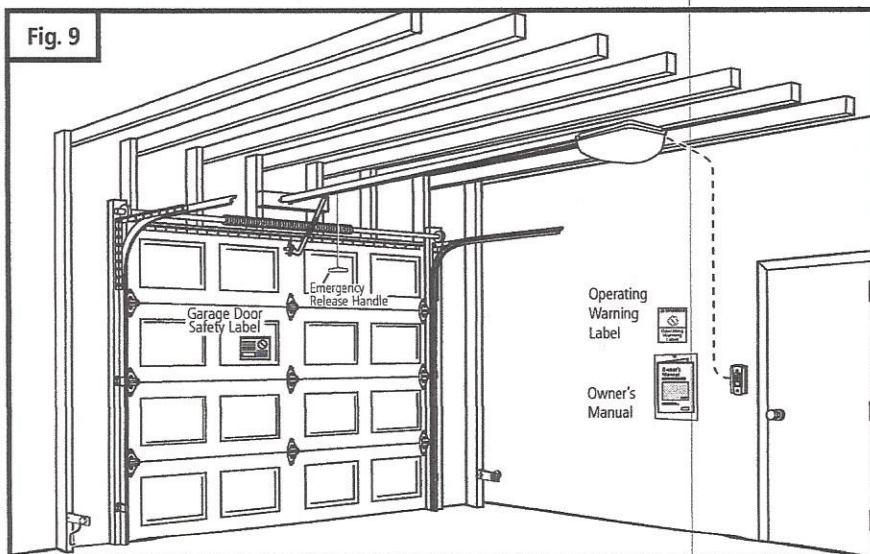
## ! WARNING !

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

1. READ AND FOLLOW ALL WARNINGS AND INSTALLATION INSTRUCTIONS.
2. **A3000 - Use this operator ONLY with sectional doors.**
3. Check with the door manufacturer to determine if additional reinforcement is required to support the door prior to installation of the door operator.
4. Install operator only on a properly balanced garage door. An improperly balanced door could cause serious injury. Have a qualified service person make repairs to garage door cables, spring assemblies, and other hardware before installing the operator.
5. Remove all ropes and disable all locks connected to the garage door before installing operator.
6. If possible, install the door operator 7 feet (2.1m) or more above the floor. For products having an emergency release, adjust the emergency release cord for the handle to be within reach, but at least 6 feet (1.8m) above the floor and avoiding contact with vehicles to avoid accidental release.
7. Do not connect the operator to source of power until this manual instructs you to do so.
8. Locate the wall control station: (a) within sight of door, (b) at a minimum height of 5 feet (1.5m) above the ground so small children cannot reach it, and (c) away from all moving parts of the door.
9. Place the Operating Warning Label next to the wall control panel in a prominent location. Affix Safety Label on inside of garage door. The Emergency Release markings molded on handle.
10. After installing the operator, test Safety Reversal System. Door MUST reverse when it contacts a 1-1/2 inch (40mm) high object (or a 2x4 laid flat) on the floor.
11. **SAVE THESE INSTRUCTIONS** for future safety, adjustment, and maintenance purposes.

*For Important Safety Instructions see page 26.*

Fig. 9



Shown on the right is an overall view of a completed garage door operator system installed on a sectional door. The arrangement is similar for a one-piece door (except for differences described later in this manual).



## 8. INSTALLATION STEPS

Identify a sound structural support on header wall above garage door for header bracket mounting. See Fig. 11. If appropriate header does not exist, replace or install a new support using a 2x4 or 2x6 board. Fasten it securely using lag screws (not provided) to structural supports of garage.

### 8-1. MEASURE AND MARK DOOR AREA

Before starting your installation, the door and the header above the door must be measured and marked. This way, the appropriate brackets can be mounted at the correct locations avoiding installation and operating difficulties later.

#### MARK VERTICAL CENTER LINE:

- Measure door width, then locate the center point (Fig. 10).
- Mark a vertical line on the upper half of your door, on the top edge of your door, and on the header, through the center point.

#### MEASURE DOOR'S HIGHEST TRAVEL POINT:

(Review Figs. on p. 5 for details)

- Open door to its highest travel point and measure from the garage floor to the top of door.
- Write down this distance.

### ⚠ WARNING ⚠

**A3000 Install on Sectional Doors ONLY**

#### FOR SECTIONAL DOORS AND ONE-PIECE DOORS WITH HORIZONTAL TRACK:

Add 1-1/4" to the door travel height (measured above).

#### FOR ONE-PIECE DOORS WITHOUT TRACK:

Add 3-3/4" to the door travel height (measured above).

#### MARK HORIZONTAL LINE FOR HEADER BRACKET LOCATION:

- Close door and measure the required distance (determined above) from the garage floor to the header.
- Mark a horizontal line, intersecting the vertical center line, on header. This is the position at which the bottom of the header bracket should be installed.
- In case of minimal clearance above the door, the header bracket may be mounted to the ceiling. In this case, extend the vertical center line onto the ceiling, and mark a horizontal line on the ceiling no further than 4" from the header wall. The header bracket should be mounted no farther than this distance from the header wall.

### 8-2. INSTALL HEADER BRACKET

### ⚠ WARNING ⚠

*If the header bracket is not rigidly fastened to a sound structural support on the header wall or ceiling, the safety reverse system may not work and could cause serious injury or death. DO NOT move or adjust springs or garage door hardware, as these parts are under extreme tension and could cause injury or death.*

Fig. 10

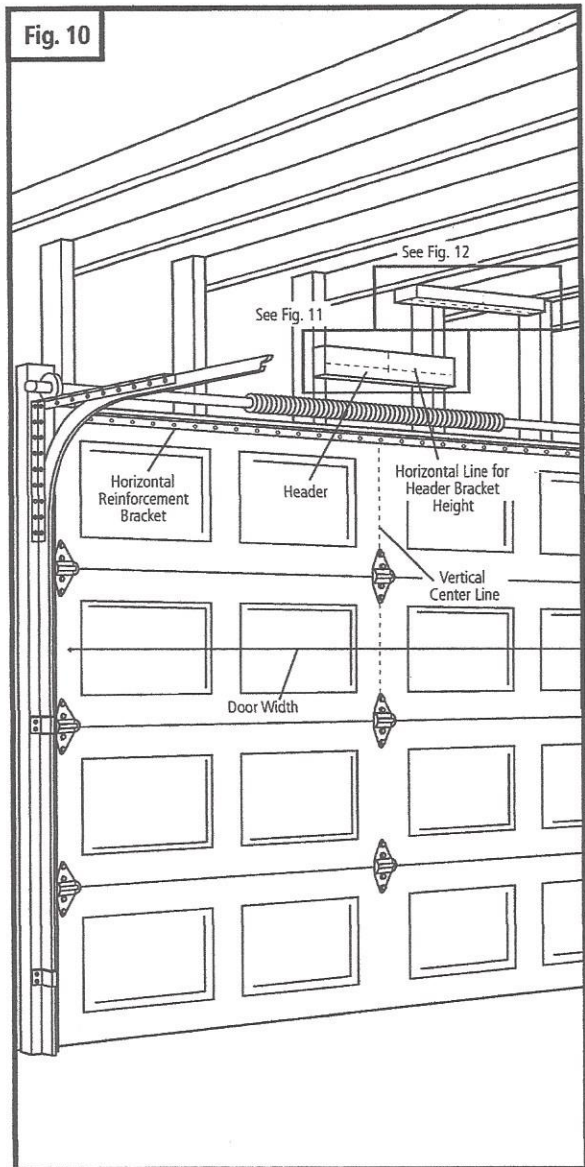
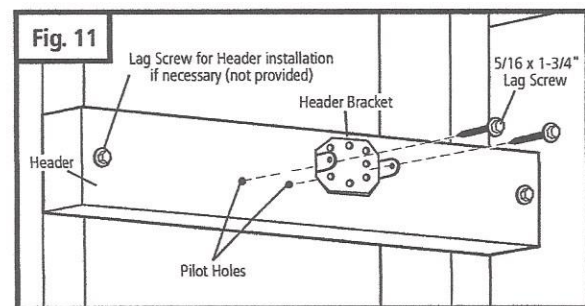


Fig. 11





## 8-2. INSTALL HEADER BRACKET (cont'd)

- Mark pilot holes location on header through header bracket holes where lag screws will be inserted.
- IMPORTANT:** See Fig. 11 for which header bracket holes to use.
- Drill  $3/16"$  pilot holes into header, and install bracket with lag screws ( $5/16 \times 1-3/4"$ ) provided.
- Tighten lag screws firmly.

**NOTE:** Follow the same procedure if header (shown in Fig. 11) runs vertically instead of horizontally and is the only option for mounting header bracket to header wall. In case of minimal clearance above the garage door, the header bracket may be mounted to the ceiling. Follow the same steps above to ensure a sound surface for mounting.

## 8-3. INSTALL DOOR BRACKET TO DOOR

### A. FOR SECTIONAL DOORS:

#### Wood Sectional Doors (Fig. 14)

- Position door bracket (Fig. 13) along vertical center line of door with pin hole facing top of the door and top edge of the bracket 4" to 5" below top edge of the door, or roughly at the same height as top rollers on the door.
- Mark locations of securement holes through door bracket.
- Drill two  $1/4"$  holes through door for securement of door bracket.
- Insert carriage bolts ( $1/4" \times 2"$ ) from the outside through door and bracket, then secure with lock washers and nuts from the inside.
- Tighten nuts firmly.

#### Metal Sectional Doors

- Attach door bracket with two teck screws (provided) per Door manufacturer recommendations.

### B. FOR ONE-PIECE DOORS:

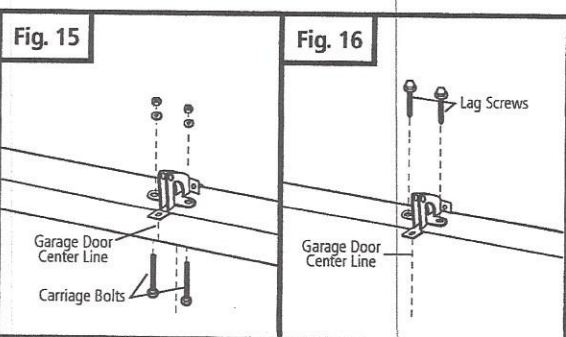
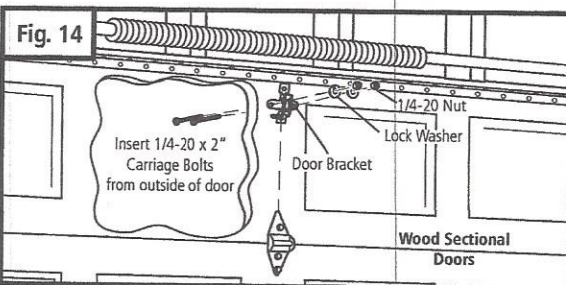
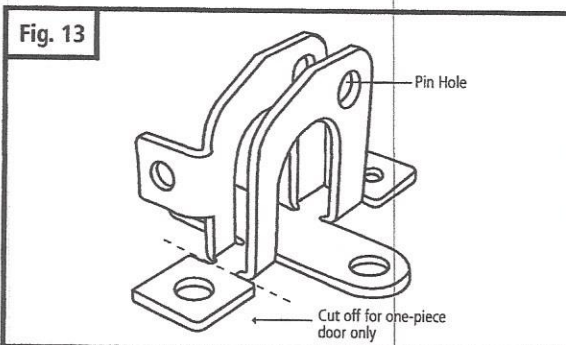
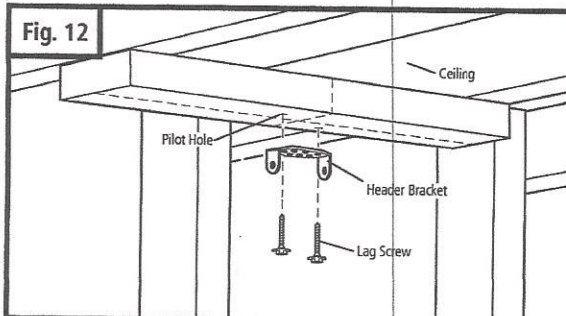
Before starting the installation of the door bracket, cut off mounting leg from opposite side of pin hole.

#### One-Piece Doors with Exposed Frames (Fig. 15)

- Position center of door bracket on the center line on the top edge of door.
- Mark the position where carriage bolts will go through bracket, and drill two  $1/4"$  holes through top frame of door.
- Install carriage bolts from the bottom, through door frame and bracket, and secure with lock washer and nut from top.
- Tighten nuts firmly.

#### One-Piece Doors without Exposed Frames (Fig. 16)

- For doors without exposed frames, use alternate method of mounting door bracket.
- Mark and drill two  $3/16"$  pilot holes into top of frame, then secure bracket with  $5/16" \times 1-5/8"$  lag screws (not provided).



One-Piece Door  
with Exposed Frame:  
Install with Carriage Bolts

One-Piece Door  
without Exposed Frame:  
Install with Lag Screws(not provided)

## 8-4. ATTACH RAIL TO OPERATOR HEAD

### **⚠ WARNING ⚠**

*When fastening the rail to the operator, use only the screws provided. Use of any other screws may result in operator falling from ceiling and causing damage to persons or property in the garage.*

**NOTE:** Rail comes fully preassembled with straight door arm already attached.

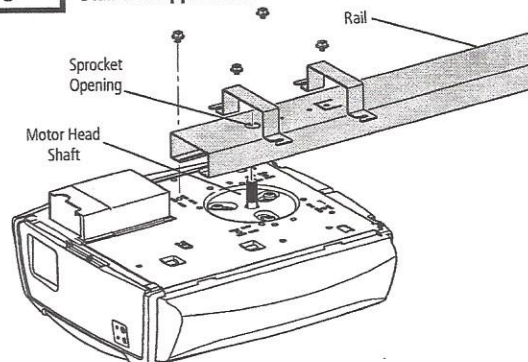
- Unpack one-piece preassembled rail.
- Leave straight door arm taped inside rail for safe and convenient installation—it will be untaped and used later.
- Position operator with control panel facing back of garage. Rest operator head on cardboard or protective surface on floor so opener does not get scratched.
- Position rail onto operator chassis by lining up rail sprocket opening with motor head shaft (Fig. 17). Make sure shaft engages teeth inside rail sprocket. Press rail down firmly onto shaft and opener chassis. **DO NOT HAMMER.**
- Position the two rail brackets over rail as shown in Fig. 17.
- Insert screws (M5 x 8.5) through bracket holes and into chassis holes, and tighten screws firmly to hold rail to head.
- For sectional doors, proceed to step 8-5.

### **ADDITIONAL STEP FOR ONE-PIECE DOORS ONLY:**

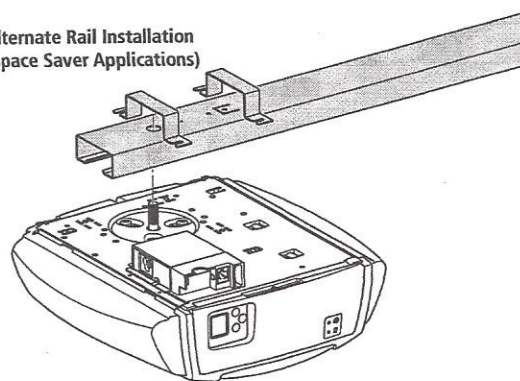
**IMPORTANT NOTE:** For installation on One-Piece Doors only, the straight door arm that is factory installed onto the rail must be replaced by the curved door arm supplied as part of hardware in powerhead box. This must be done after attaching rail to powerhead, before moving to step 8-5.

- Turn rail and operator over so that open channel in rail faces up.
- Untape straight door arm that is secured inside rail.
- Remove and save the two phillips head screws that are securing the door arm pin and straight door arm (Fig. 18).
- Lift arm and pin straight out of slot in trolley, and remove pin from straight door arm.
- Insert pin into short side of curved door arm as shown.
- Orient arm so that long side extends away from trolley.
- Carefully insert pin and door arm into slot in trolley. Push pin into slot with door arm so pin is fully seated into trolley slot. **IMPORTANT:** Pin must be straight and seated properly into recessed area in trolley. See Figs. 18A and 18B.
- Secure pin and curved arm with the two phillips screws which were removed from trolley—**DO NOT** use any other screws. Tighten screws firmly.
- Turn rail and powerhead over so that open channel in rail faces down. Now proceed to Step 8-5.

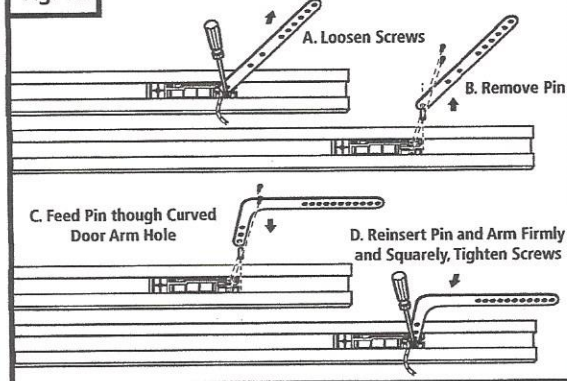
**Fig. 17** Standard Application



**Alternate Rail Installation (Space Saver Applications)**



**Fig. 18**

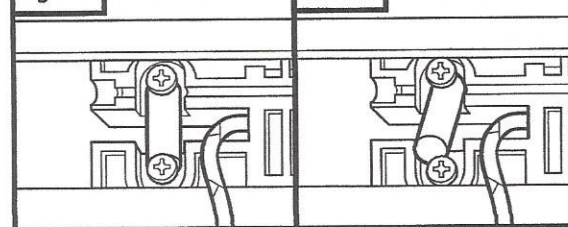


**Fig. 18A**

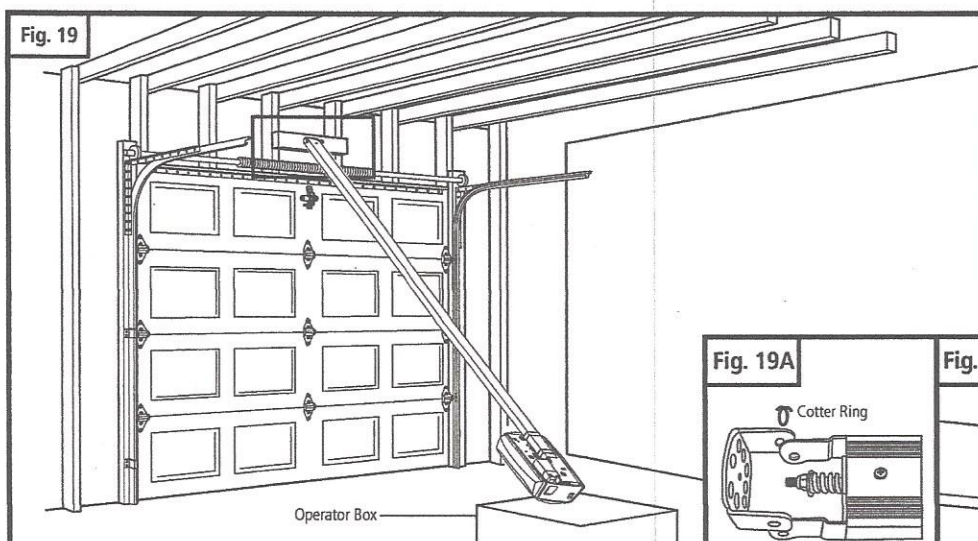
Correctly seated pin.

**Fig. 18B**

Incorrectly seated pin.







### 8-5. ATTACH RAIL TO HEADER BRACKET

- Support operator head slightly off the floor.
- Lift the opposite end of the rail up to the header bracket.
- Position rail end-stop within the openings in the header bracket. Insert header clevis pin (1/4" dia.) through header bracket and rail end, then attach cotter ring to end of pin. (See Fig. 19A)

### 8-6. POSITION OPERATOR FOR MOUNTING

Once rail is attached to header bracket, support operator on ladder, or use the assistance of another person to support operator high enough so door can open without hitting the rail.

## ⚠ WARNING ⚠

**A3000 Install on Sectional Doors ONLY**

#### A. SECTIONAL DOORS AND ONE-PIECE DOORS WITH TRACK:

- Open garage door to fully opened position, and place a 2x4 laid flat between the door and the rail. See Fig. 20. This provides an easy method of ensuring the correct mounting height of the opener.

#### B. ONE-PIECE DOORS WITHOUT TRACK:

- Disconnect trolley by pulling down on emergency release knob. Move trolley toward opener head.
- Open door all the way so that it is parallel to the floor, or slightly tilted toward the front of the garage. DOOR SHOULD NOT BE TILTED TOWARD THE BACK OF GARAGE.
- Position operator so that top of operator head is level with top of opened door.
- To check for correct mounting height, temporarily position curved door arm as if connecting to door bracket. See Fig. 21. The long side of the arm should be parallel to the floor when door is fully opened. Raise or lower powerhead so that arm will be parallel to floor.
- Temporarily support head at this height, and prepare to mount the operator to ceiling.

Fig. 19A

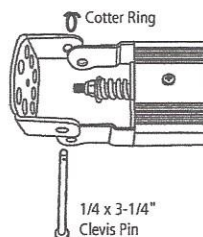


Fig. 19B

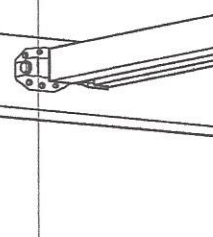


Fig. 20

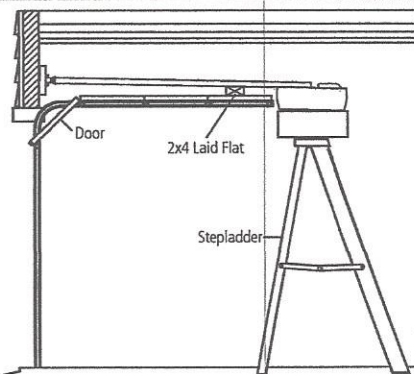
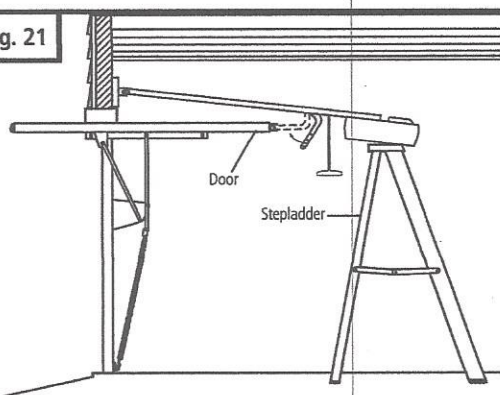


Fig. 21



## 8-7. MOUNT OPERATOR TO CEILING

### **WARNING**

*If not properly secured, the operator could fall and injure someone. Secure opener to structural supports or framing. Do not mount to drywall, plaster, or other such material.*

- Place mounting bracket over rail (close side) on a diagonal. Make sure support securement clamps clear rail sides.
- Twist mounting bracket and secure onto rail 12" from sprcket end side of rail as shown in Fig. 22.
- Attach mounting strap or perforated angels (not provided) to mounting bracket and secure by fastening it to the ceiling.

**NOTE: 10' and 12' doors requires two brackets installation as shown in Fig. 23.**

- Measure the rail's overall span. Locate support bracket 1/3" of full span from the rail end side as shown in Fig. 23.

Fig. 22

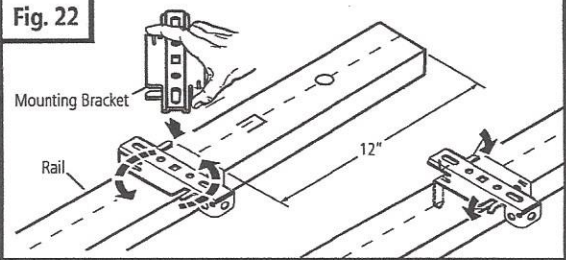


Fig. 23

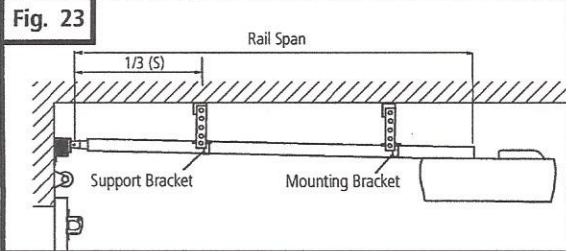


Fig. 24

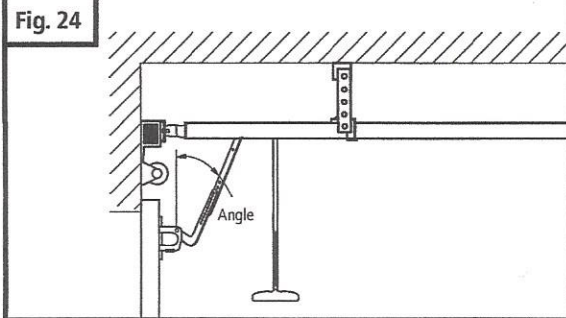


Fig. 25

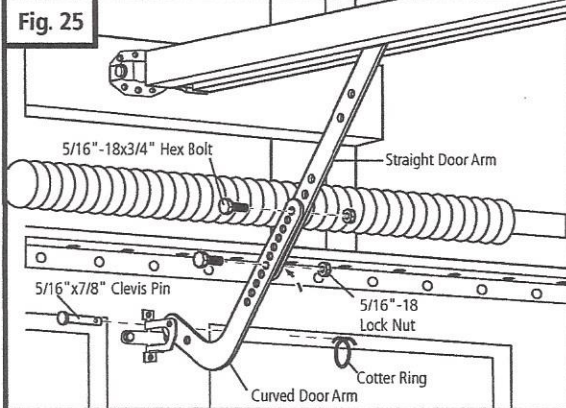
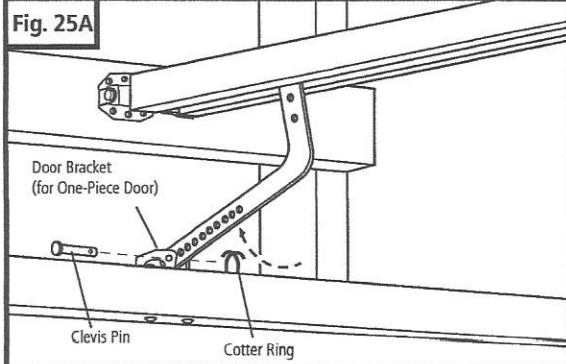


Fig. 25A



## 8-8. CONNECT ARM TO DOOR AND TROLLEY

- Make sure door is fully closed.
- Remove tape from rail holding straight door arm (sectional door only) and allow door arm to hang freely.
- Pull the manual release cord on the trolley to disconnect trolley from chain or belt connector. Slide trolley to position it approximately 6-8" away from the door.

### **WARNING**

**A3000 Install on Sectional Doors ONLY**

#### **A. SECTIONAL DOORS:**

- Position curved door arm into door bracket channel so that short end of arm will be attached to door bracket. See Fig. 25. Curved door arm should be attached roughly at the same height as the top rollers of the door.
- Align curved door arm and bracket holes, then insert clevis pin through holes. Attach cotter ring to hold pin in place.
- Position straight arm and curved arm to form an angle with the door (Fig. 24) and at least two sets of holes line up. Select two overlapping holes as far apart as possible and secure arms together with hex bolts (5/16-18) and lock nuts.

#### **B. ALL ONE-PIECE DOORS:**

- Curved door arm should already be attached to trolley in place of straight door arm. See Fig. 18, p. 10.
- Position free end of curved arm into door bracket slot. Align curved door arm and bracket holes, then insert clevis pin (5/16" dia.) through holes. Attach cotter ring to pin to hold in place. See Fig. 25A.

#### **C. SECTIONAL AND ONE-PIECE DOORS:**

- After connecting appropriate door arm, ensure trolley is disengaged. Check for proper door operation by manually lifting then lowering to fully opened and closed positions.
- Readjust door arm if needed.



## 8-9. RAIL BUMPER INSTALLATION

- With the trolley in the unlock position, move door up to the location desired. See Fig 26.
- Snap rail bumper as shown in Fig. 26A.
- Hold door and measure approximately  $\frac{1}{2}$ " from trolley end as shown in Fig 26B. This is the installation location for the rail bumper.
- Secure bumper with screws and cover screws with plastic caps (provided) as shown on Fig. 26B.

### IMPORTANT NOTE

**PULL DOWN ON RELEASE HANDLE TO LOCK TROLLEY, THEN MOVE DOOR MANUALLY UNTIL TROLLEY LOCKS WITH CHAIN OR BELT CONNECTOR.**

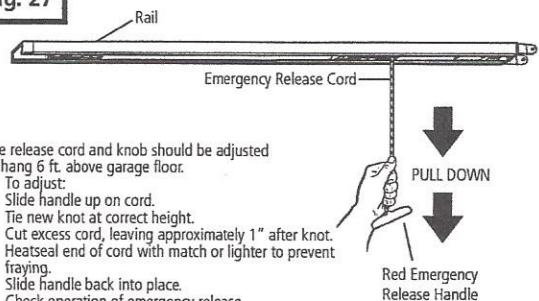
## 8-10. CHECK EMERGENCY RELEASE

### WARNING

To prevent possible **SERIOUS INJURY** or **DEATH** from a falling garage door:

- If possible, use emergency release handle to disengage trolley **ONLY** when garage door is **CLOSED**. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
- **NEVER** use emergency release handle unless garage doorway is clear of persons and obstructions.
- **NEVER** use handle to pull door open or closed.

Fig. 27



The emergency release cord with red handle which is already attached to the trolley, are extremely important parts of the operator system Fig. 27. Pulling the release cord disengages the door from the opener. This allows the door to be moved manually up and down independent of the opener motor.

**If the door is in the open position, use extreme care when using the release.**

Use emergency release to disconnect the door if the power is out. It should also be used if for some unforeseen reason the door strikes a person or object during its travel and does not automatically reverse off the obstruction.

**To release door - pull firmly down on red handle. (Fig. 27)**

Prior to re-engaging door, ensure that all obstructions are removed and door is operating properly manually. Before re-engaging trolley with a chain or belt connector, pull down handle again, then release. The red catch will stop in the "lock" position and will open indicator window (see Fig. 27A). Now the door can be reconnected by moving it manually and bringing it into position when the connector is inside of the trolley.

Fig. 26

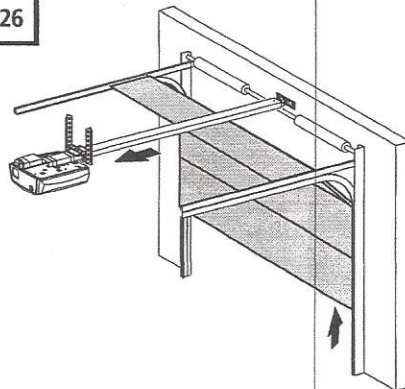


Fig. 26A

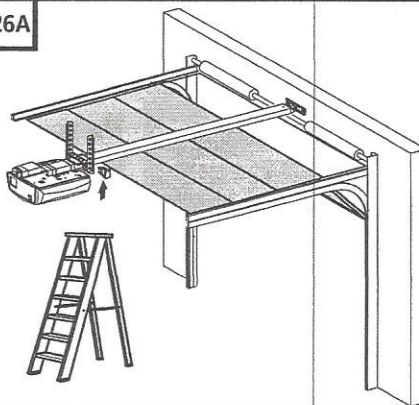


Fig. 26B

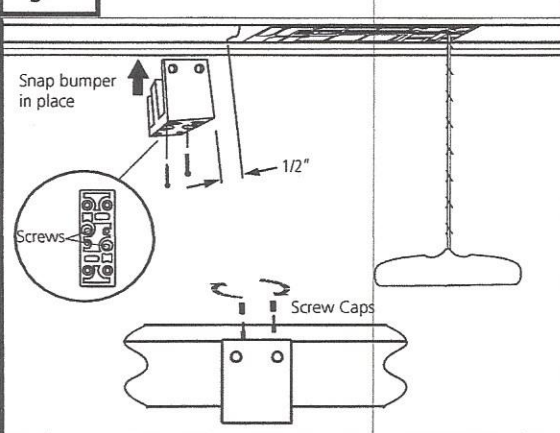
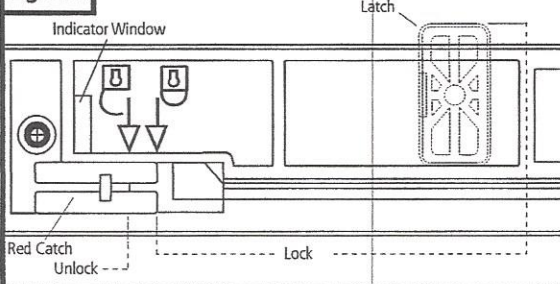


Fig. 27A





## 8-11. INSTALL PHOTO EYE SAFETY SYSTEM

### CAUTION

*To provide the maximum amount of protection, the photo eye sensors must be mounted between 3.5" and 5" above the floor. See Fig. 28.*

#### MOUNTING THE PHOTO EYE SENSOR BRACKETS TO WALL:

- Locate the mounting position for brackets (bracket can be mounted in any position as long as photo eye beam will have a clear path from one side of door to other side after mounting).
- Use the bracket mounting holes as a template to locate an drill (2) 3/16" diameter pilot holes on both sides of the garage door as shown in Fig. 28.
- Secure the bracket with 1/4" x 1-1/2" lag screws provided, see Fig. 28.

#### MOUNTING THE PHOTO EYE SENSORS TO MOUNTING BRACKET. Fig. 28A

- Install the sensors to the mounting bracket by inserting bend clips of sensor bracket through the vertical slot on mounting bracket.
- Insert straight clips through other set of vertical slot on the mounting bracket.
- Twist one of the straight clips slightly to lock the sensor in place once inserted through vertical slot on the mounting bracket.
- Repeat the above procedure for the other sensor.

#### EXTENSION BRACKETS INSTALLATION. Fig. 29

- Extension brackets supplied separate.
- Locate the mounting position for extension bracket as shown in Fig. 25.
- Secure the bracket to the wall with two lag screws provided.
- Attach photo eye bracket to extension bracket and secure with hardware provided.
- Repeat process for the other bracket.

#### SENSOR PROTECTION Fig. 30

- Before performing maintenance work in garage, such as, power washing, painting, and other tasks; protect sensors with provided sensor caps.

#### DUAL DOOR INSTALLATION Fig. 31

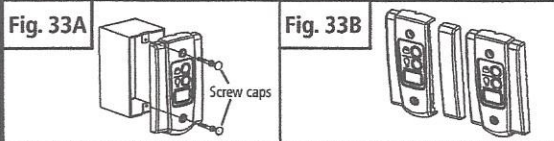
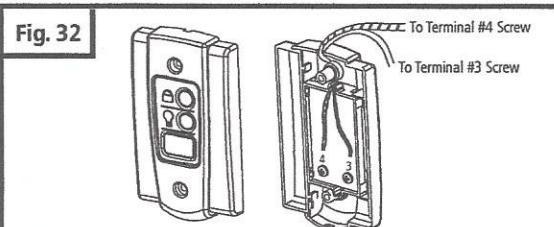
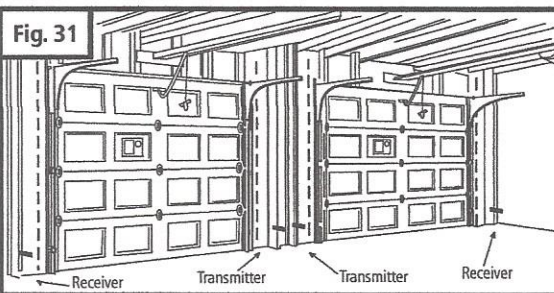
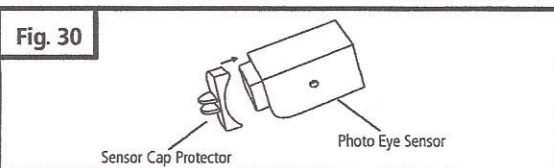
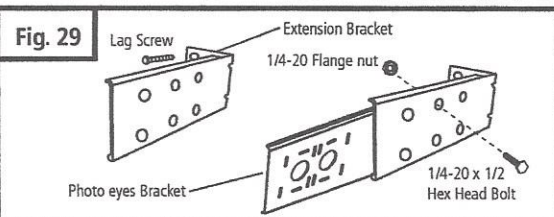
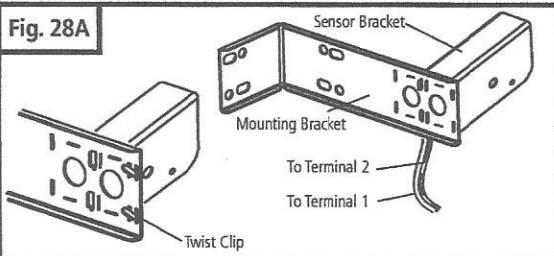
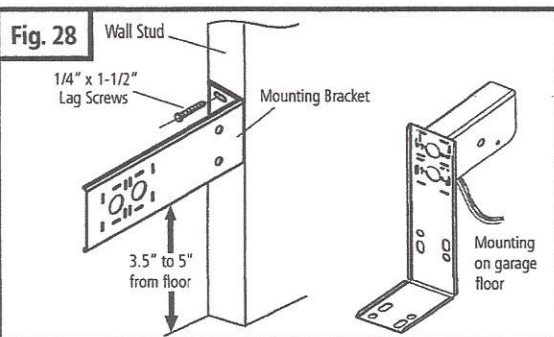
- In dual door installations, the transmitter (TX) and the receiver (RX) photo eye sensors (as marked on each of the photo eye components) should be mounted as indicate in Fig. 31. TX and RX marks located on the back side of the transmitter and receiver.

## 8-12. INSTALL WALL CONTROL PANEL

The control panel must be mounted inside the garage within sight of the garage door, clear of all moving garage door parts or any associated parts - and at least 5 feet above the floor to prevent the use of these controls by children. The device should only be used when the door is in clear sight of the user and the door area is free of people or any obstructions.

- Attach 2-conductor wire to the screw terminal on back of control panel. See Fig. 32 (Back). White wire attaches to terminal #3 screw, white wire with color stripes attaches to terminal #4 screw.
- Position wall control panel onto wall in desired location.
- Mark hole location on wall.
- Drill 1/16" pilot holes into wall.
- Insert and tighten screws to secure control panel to wall.
- Make sure wiring is routed out from behind control through one of the cutouts to avoid pinching the wires.

*If mounting to drywall instead of wood, drill 3/16" pilot holes and use anchors provided. If mounting to electrical box that is prewired for this purpose, mount directly to box with proper screws provided. See Fig. 33A.*





## 9. CONTROL UNIT CONNECTIONS

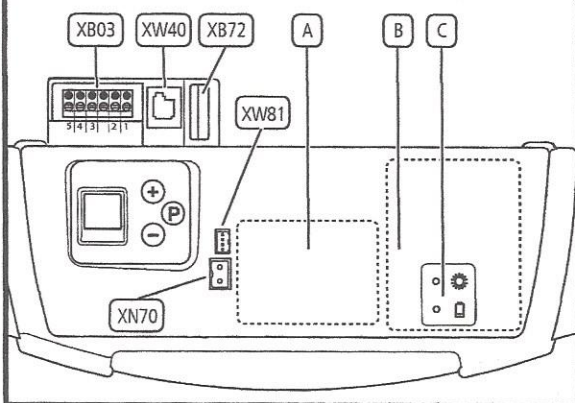
### **⚠ WARNING ⚠**

#### **Danger of electric shock:**

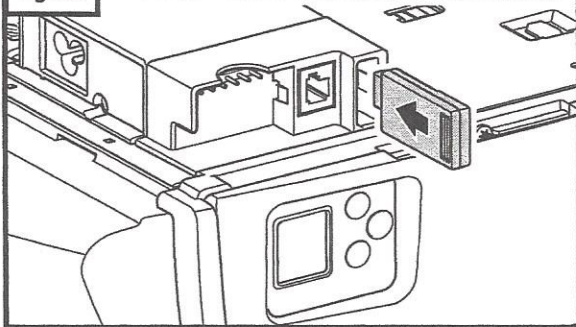
Before any wiring works begin, make sure that all wiring is disconnected from the power supply. During wiring make sure all wires remain disconnected from the power supply at all times.

A	GDO expansion module slot - empty
B	Integrable Battery backup (optional)
C	Battery backup display
XB03	Connection for - Wall control - Photo eye safety system
XB72	Connection for modular antenna Fig. 34
XN70	Connection for battery backup Sec. 9.1 Connections XN70
XW40	Connection for MS bus expansion module <u>Not available</u>
XW81	Inputs/outputs modules connection

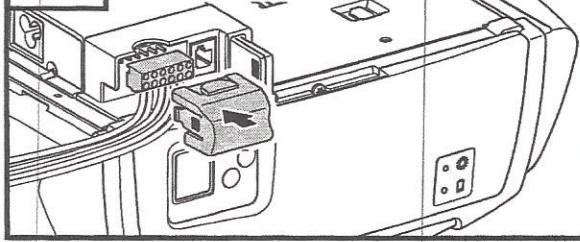
**Fig. 34**



**Fig. 35** Modular Antenna Installation or Replacement

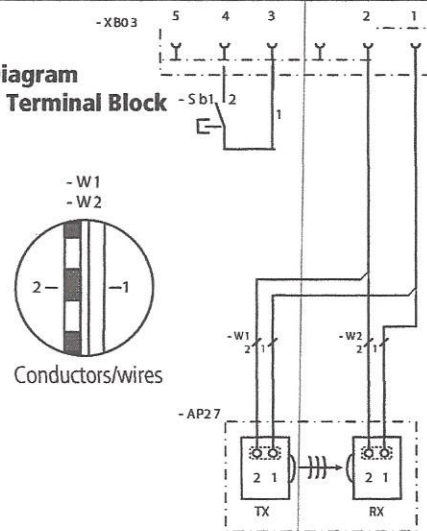


**Fig. 36** Terminal block XB03



**Fig. 37**

#### **Wiring Diagram for XB03 Terminal Block**



AP27	Photo eye safety system
RX	Photo eye receiver
TX	Photo eye transmitter
1	Photo eye - Conductor 1
2	Photo eye - Conductor 2
Sb1	Impulse button - Wall Control
3	Wall control - Impulse - Conductor 1
4	Wall control - GROUND - Conductor 2
5	24 V DC