

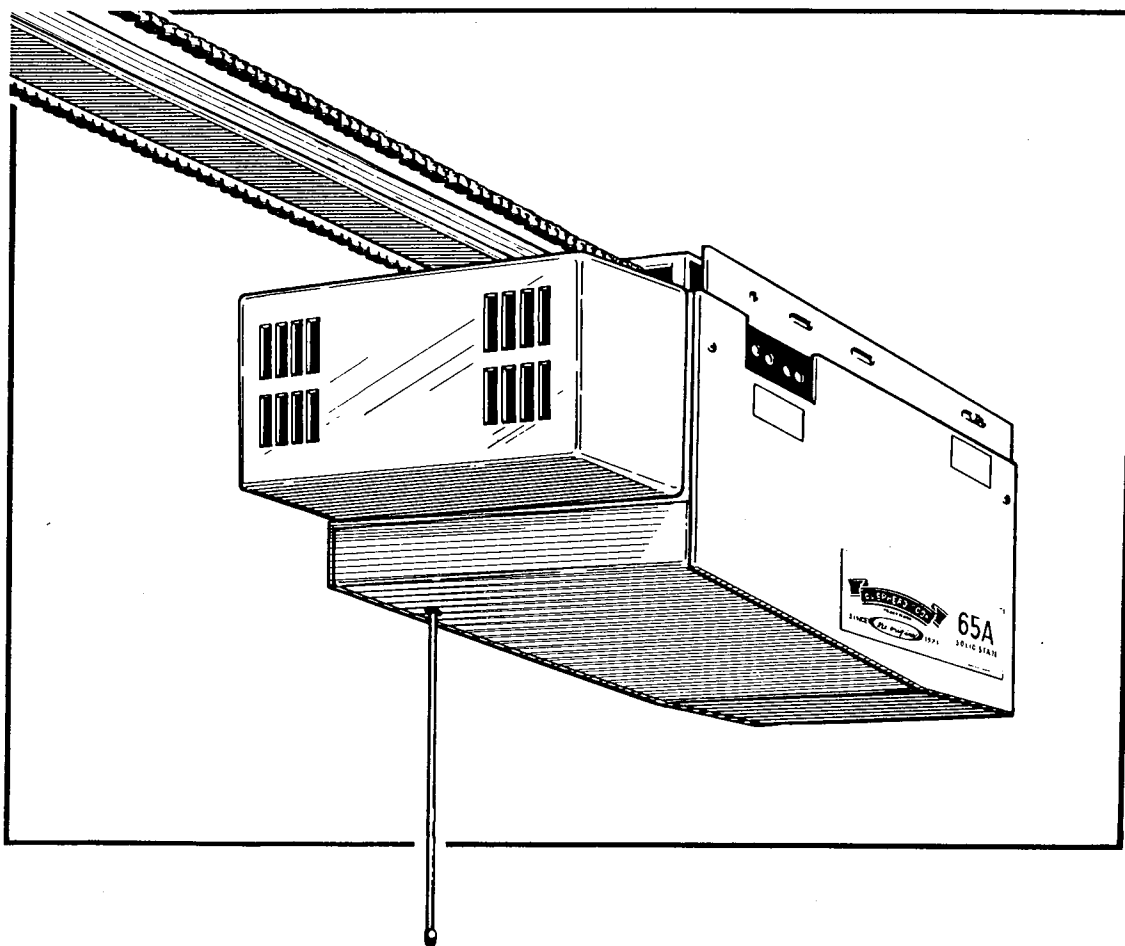
MODEL 65A

GARAGE DOOR OPENER SYSTEM



106545-1 T-Bar Latch Keeper

INSTALLATION AND OPERATING INSTRUCTIONS



WARNING

DO NOT allow children to play in area of door or with radio control transmitter.

WARNING

Operator MUST be properly grounded.

After installation is completed, place instructions
in close proximity to garage door.

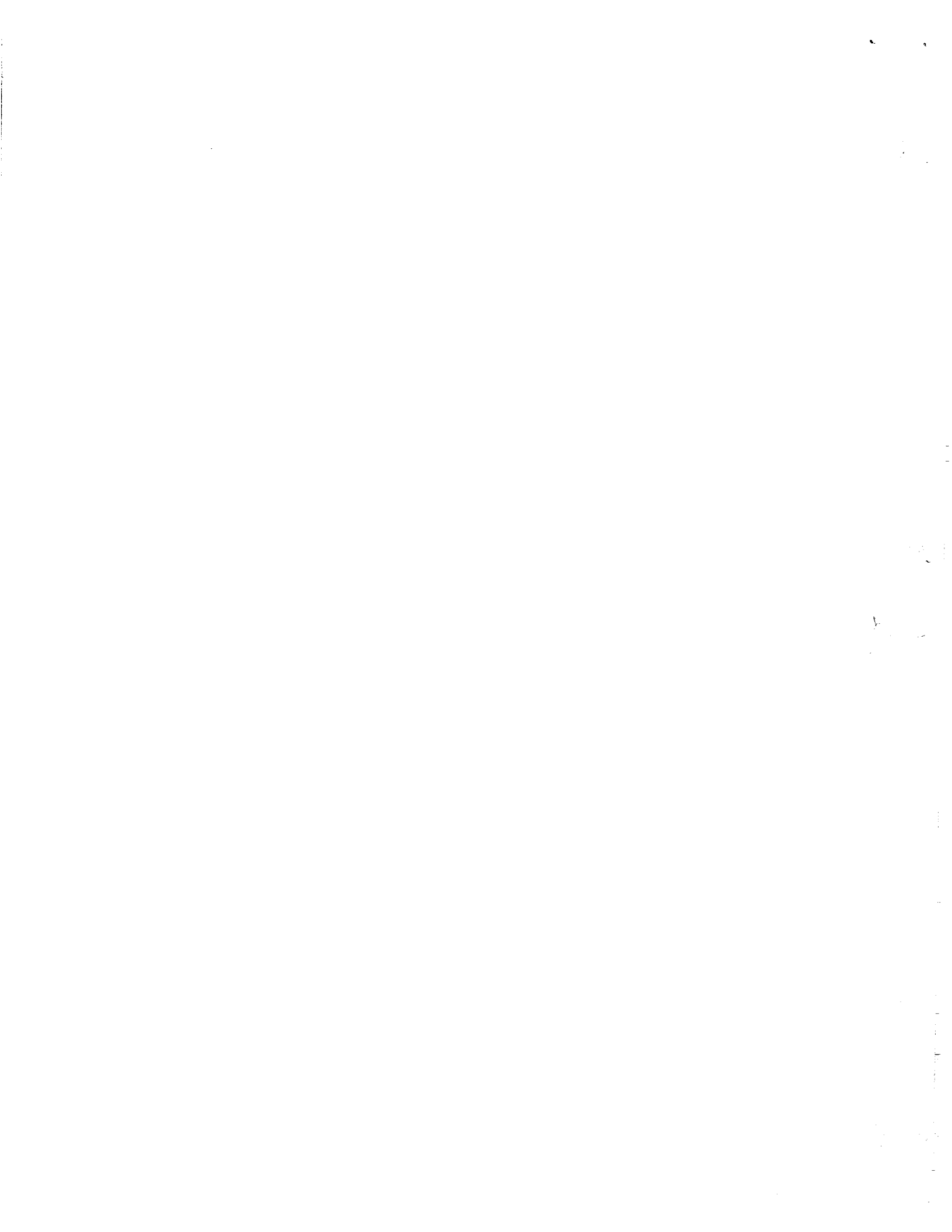


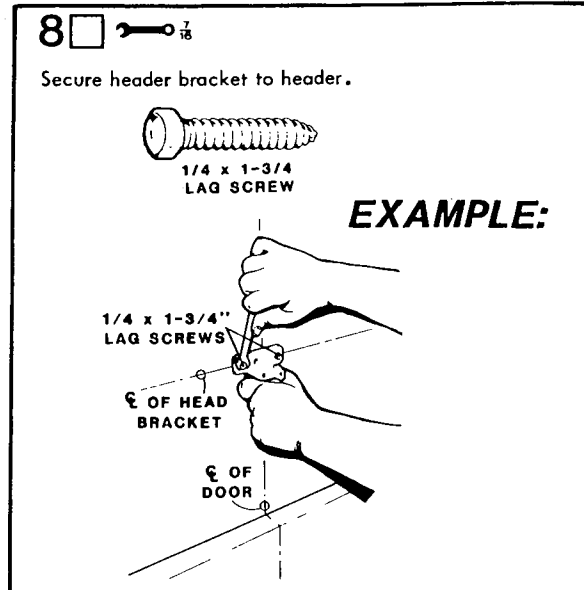
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READ THROUGH MANUAL
BEFORE BEGINNING ASSEMBLY.


HOW TO USE THIS BOOK


1. Use tools indicated by silhouettes at top of instruction.
2. Perform the instruction according to the words and illustration.
3. Put a check in box after completion of instruction.
4. Proceed to next step.



TOOLS NEEDED

You will need the tools shown below to assemble and install this operator.

 ELECTRIC DRILL
5/32 BIT
1/4 BIT
1/8 BIT (METAL DOORS)


 CARPENTER LEVEL


 STEP LADDER
6-0

 HACK SAW

 ADJUSTABLE END WRENCH

 NEEDLE NOSE PLIERS


 END WRENCH
7/16 & 9/16

 SLOTTED SCREWDRIVER

 WIRE CUTTERS

 NUTDRIVER
1/4

 PHILLIPS SCREWDRIVER

 ALLEN WRENCH
1/8

● TAPE MEASURE

● STRAIGHT EDGE

● PENCIL

● POCKET KNIFE
OR
WIRE STRIPPERS

● BELL WIRE

GENERAL NOTES

Preparing Door for Operator

The following procedures must be performed before operator can be installed. Failure to complete the following procedures can cause operator failure and/or hazardous conditions which could cause personal injury.

1. Check working condition of door. Door should operate freely without sticking or binding. Lubricate door rollers and hinges with SAE 30 wt. oil. Replace damaged or broken rollers and hinges. Tighten all bolts and screws.
2. Check for broken counterbalance springs and worn or broken lift cables. Replace any defective parts.

CAUTION

Repairs and adjustments to cables and springs can be hazardous and should be performed by qualified door service people.

3. Counterbalance should be set so that door does not have to be held up or down.
4. If door is equipped with a locking device, make it inoperative by permanently securing the locking bar in an unlocked position.

CAUTION

Remove any lift or pull rope to avoid entrapment by rope when door is opened.

IMPORTANT

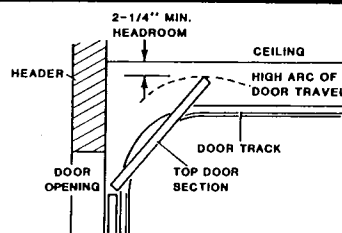
It is recommended that the top section of door be strutted on doors 16' wide or larger.

NOTE

For maximum Radio Control performance on garages with two or more operators, it is recommended that the Radio Frequency of each unit be different. For example: 340 - - - Code on one operator with 360 - - - on the second operator. (Refer to sticker on back of transmitter).

IMPORTANT

This operator cannot be installed on garage doors where the headroom is less than 2-1/4". Headroom is the distance between the ceiling and the high arc of door travel.



WARNING

**TO REDUCE THE RISK OF INJURY TO PERSONS -
USE THIS OPERATOR ONLY WITH A SECTIONAL DOOR.**

CAUTION

DO NOT USE lighted-type pushbutton. See troubleshooting chart page 17.

IMPORTANT

Operator sensitivity should be tested periodically. See Page 15.

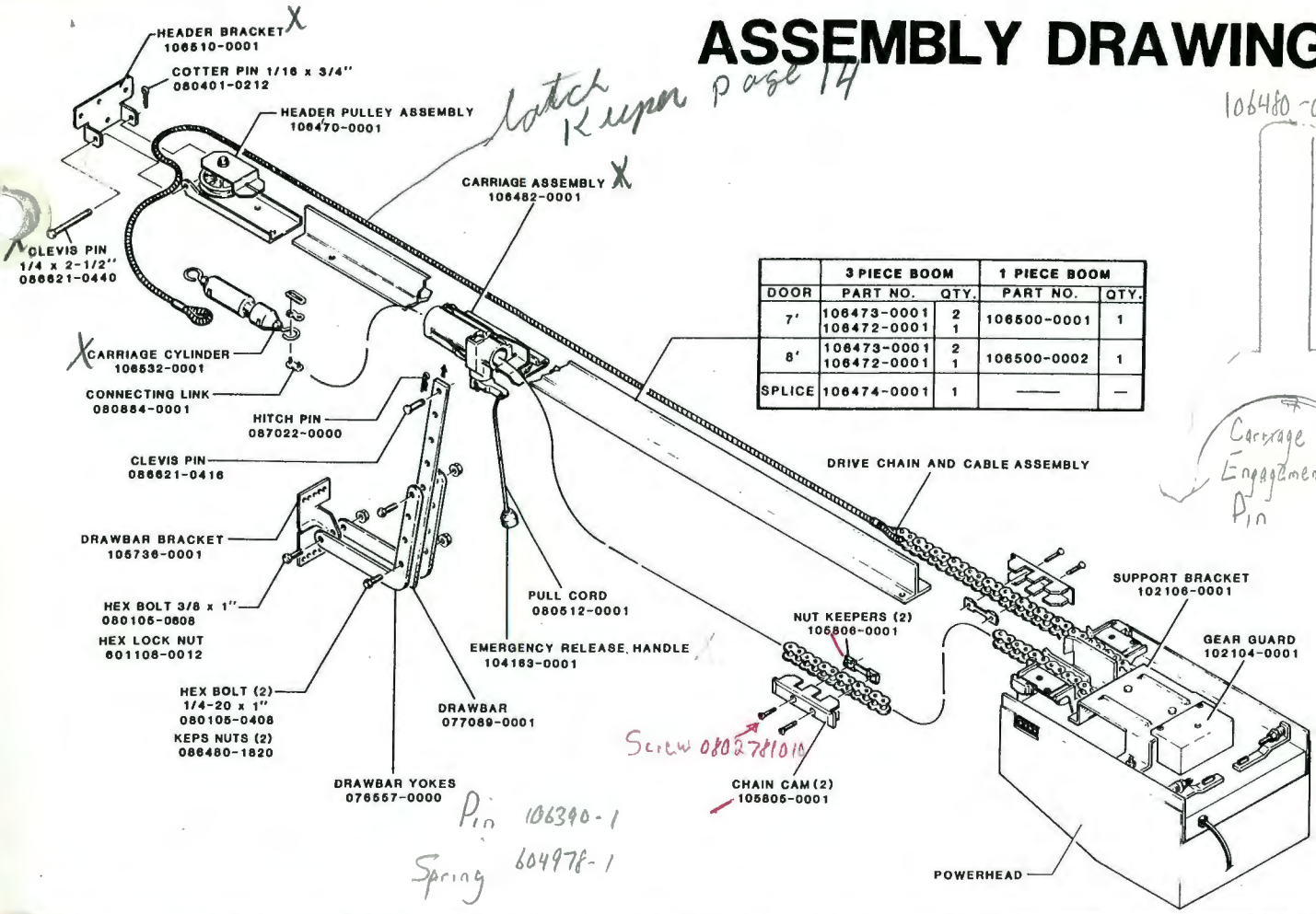
WARNING

**DO NOT CONNECT ELECTRICAL POWER TO
UNIT UNTIL INSTRUCTED TO DO SO.**



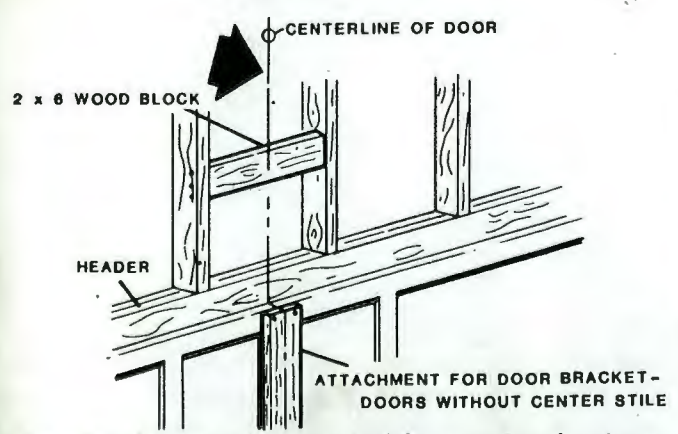
ASSEMBLY DRAWING

106480-0001



INSTALLATION

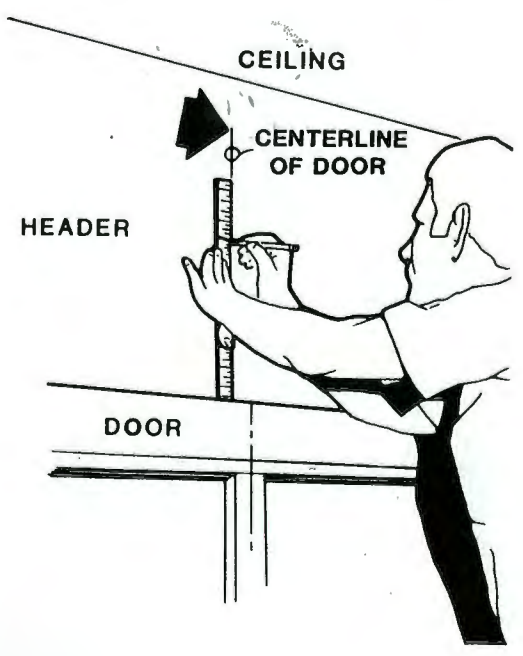
1 Measure width of door to determine center.



If header does not have suitable woodwork where header bracket will be installed, then such will have to be made. It is suggested that a wood 2"x 6" be secured to nearby existing woodwork.

If door does not have a center stile or suitable attachment for attaching door bracket then door must be reinforced with wood or steel at mounting point.

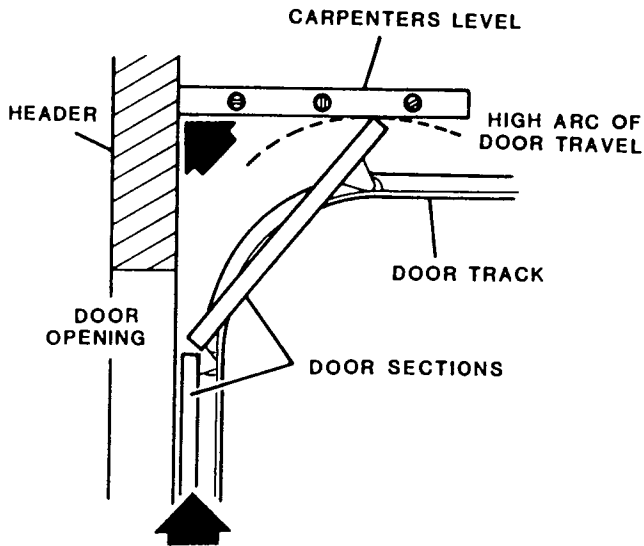
2 Mark center line on door and header.



INSTALLATION

3

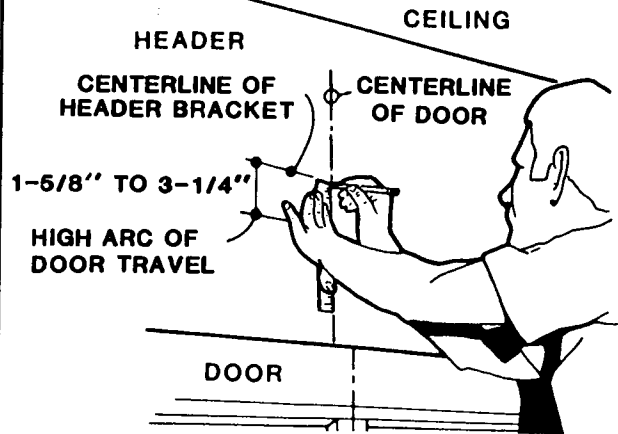
Raise door until top section reaches its highest arc of travel. Mark header on center line at point where level touches header.



IT IS RECOMMENDED THAT OPERATOR BE MOUNTED A MINIMUM OF 7 FEET ABOVE FLOOR.

4

Mark horizontal center line of header bracket 1-5/8" minimum to 3-1/4" maximum above high arc of door travel. Use lowest figure permitted by door counterbalance.

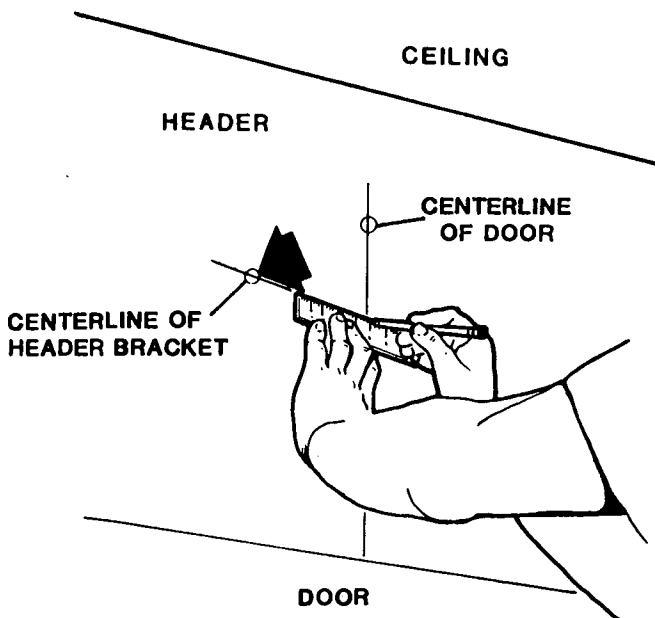


NOTE

2-1/4" minimum headroom required above high arc of door travel for 3 piece boom.
2" minimum headroom required for solid boom.

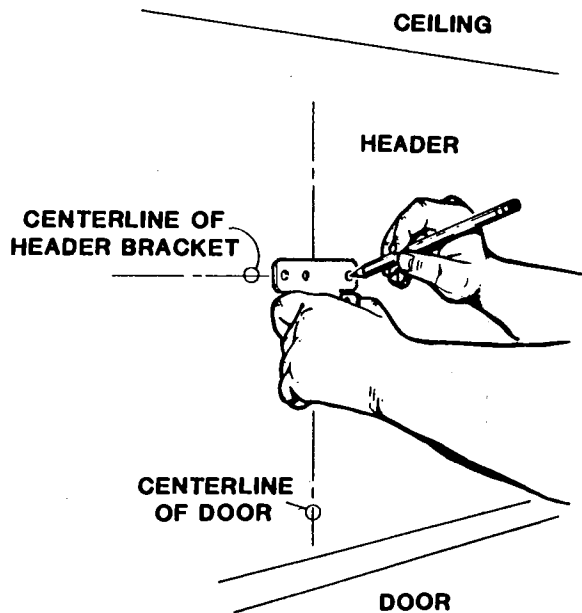
5

Mark horizontal center line of header bracket.



6

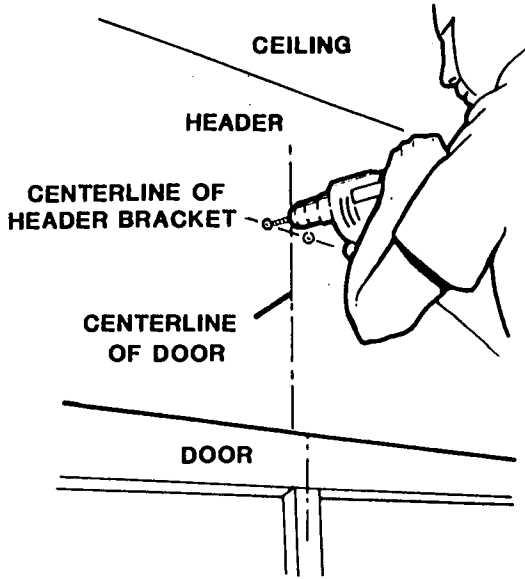
Position header bracket on center line and mark mounting hole locations on center line.



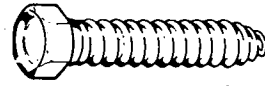
INSTALLATION



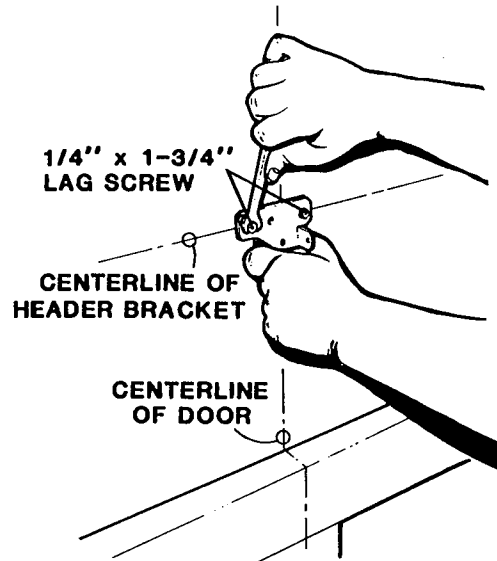
11 5/32" diameter holes at marked locations.



Secure header bracket to header.

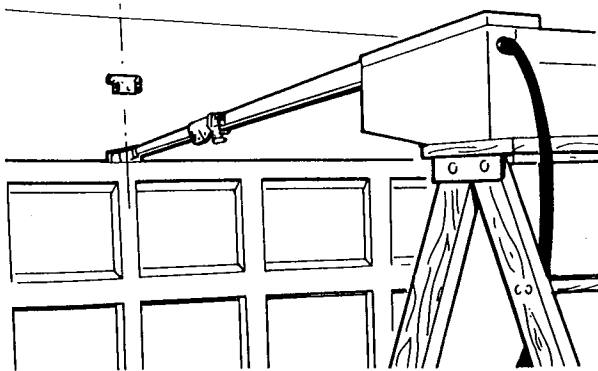


1/4 x 1-3/4
LAG SCREW



EXTENSION SPRING DOOR

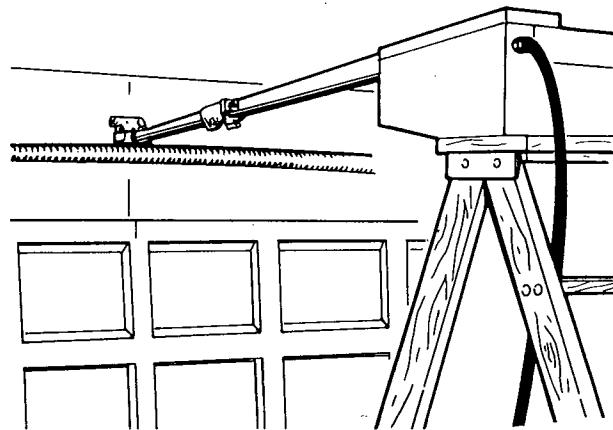
Rest header end of boom on top edge of top door section and powerhead on top of step ladder.




TORSION SPRING DOOR

Rest head end of boom on torsion spring and powerhead on top of step ladder.

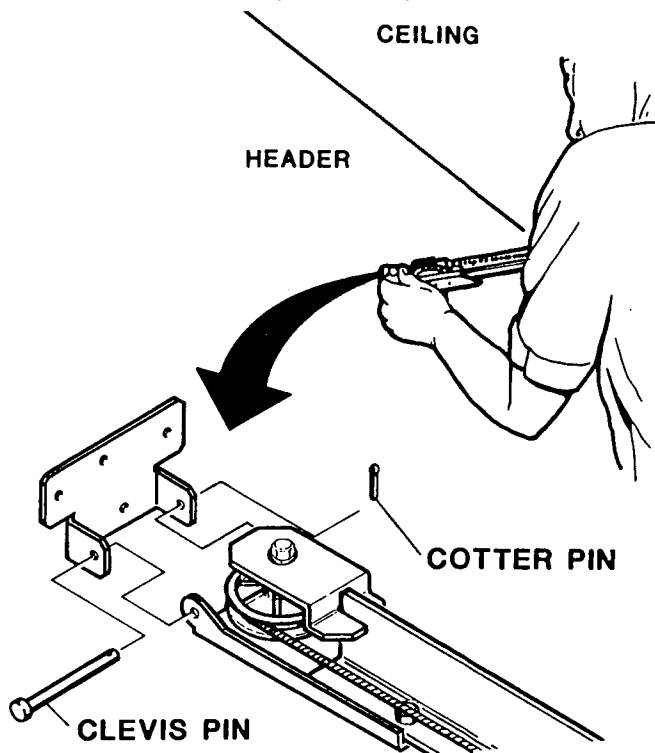
OR



INSTALLATION

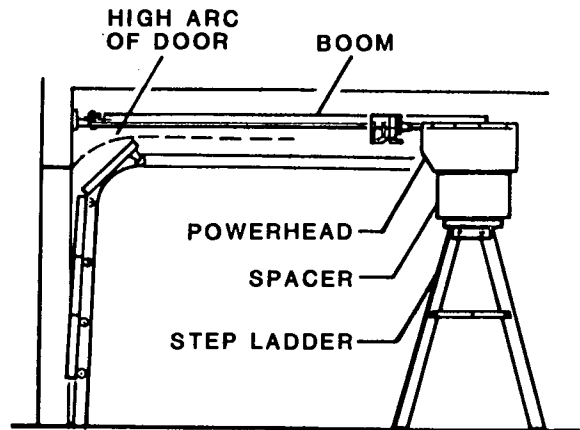
10 

Attach header pulley assembly to header bracket.



11 

Raise powerhead additionally if required so that boom is above high arc of door when opened.

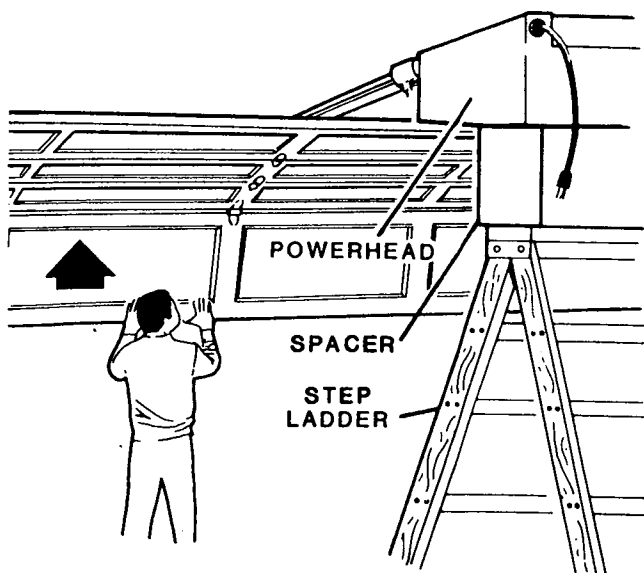


NOTE

Carriage should be located near powerhead when raising operator.

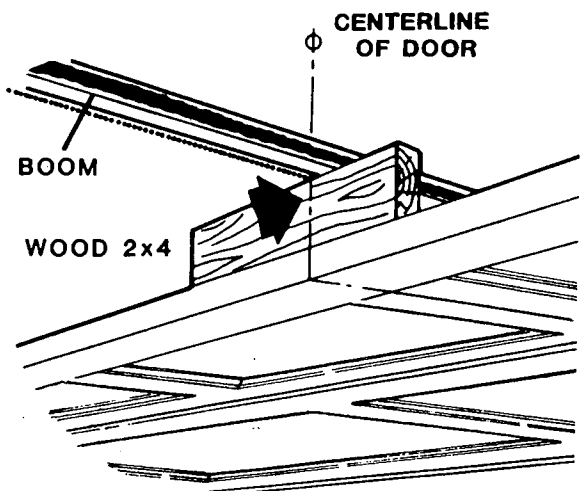
12 

Raise door until fully open.



13 

Position a wood 2x4 on edge between top door section and boom. Use center line of door to correctly align boom.



DOOR IN FULLY OPEN POSITION

INSTALLATION



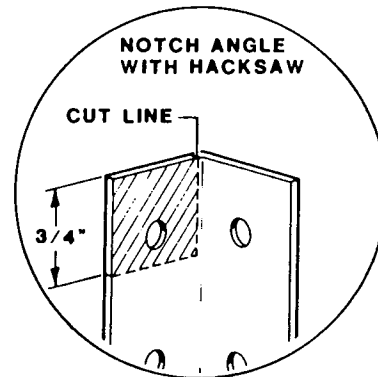
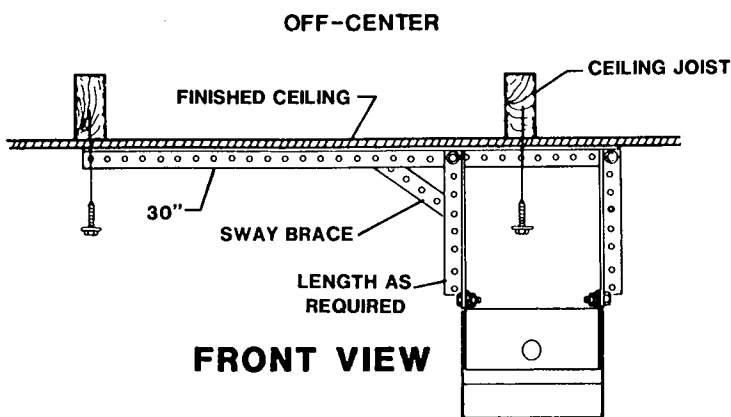
Shown are examples of various installation configurations. Determine the configuration which best suits your requirements.

2. If necessary, span ceiling joists with wood 2 x 4's sufficient enough to support operator.
3. Hold ceiling mounting angle in mounting position. Using holes in angle as a guide, drill 3/16" diameter pilot holes in ceiling joists or 2 x 4 framing.
4. Using 1/4" x 1-3/4" lag screws, secure ceiling mounting angle to ceiling joists or 2 x 4 framing.
5. Notch operator end of vertical angles (Detail A).
6. Using 1/4"- 20 x 1/2" hex head bolts and lock nuts, secure angle brackets to operator.
7. Using 1/4"- 20 x 1/2" hex head bolts and lock nuts, secure vertical mounting angles to ceiling angle. Vertical angles may be bent at notch if necessary (Detail B).

NOTE

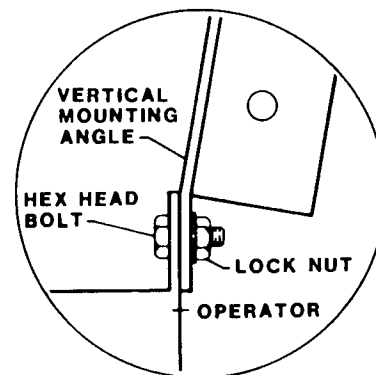
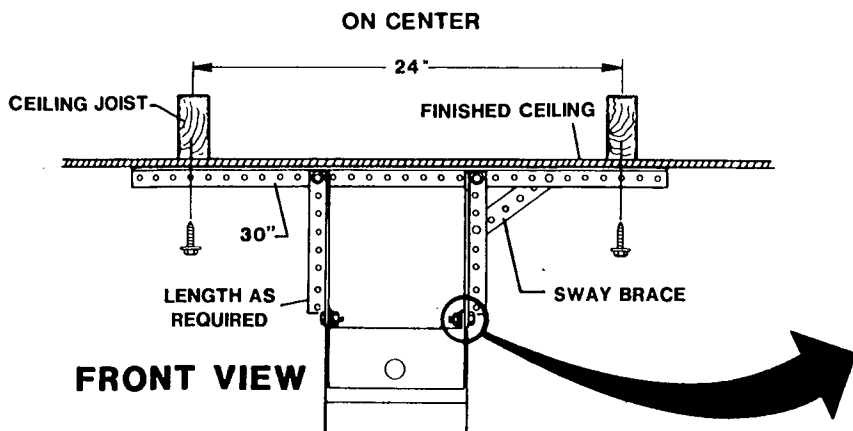
IT IS RECOMMENDED THAT OPERATOR BE MOUNTED A MINIMUM OF 7 FEET ABOVE FLOOR.

LENGTHWISE CEILING JOISTS



DETAIL A

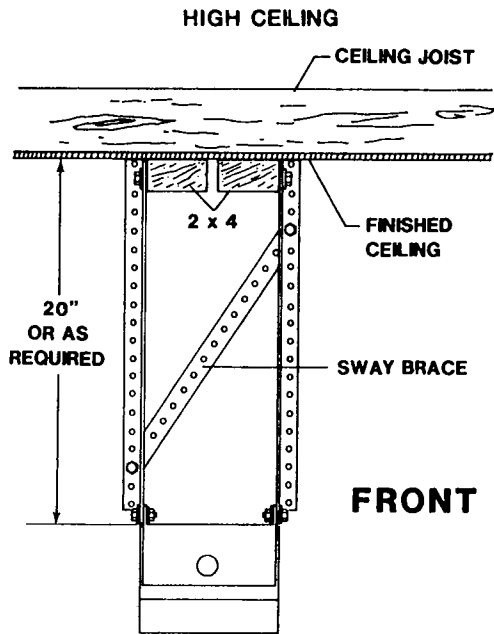
LENGTHWISE CEILING JOISTS



DETAIL B

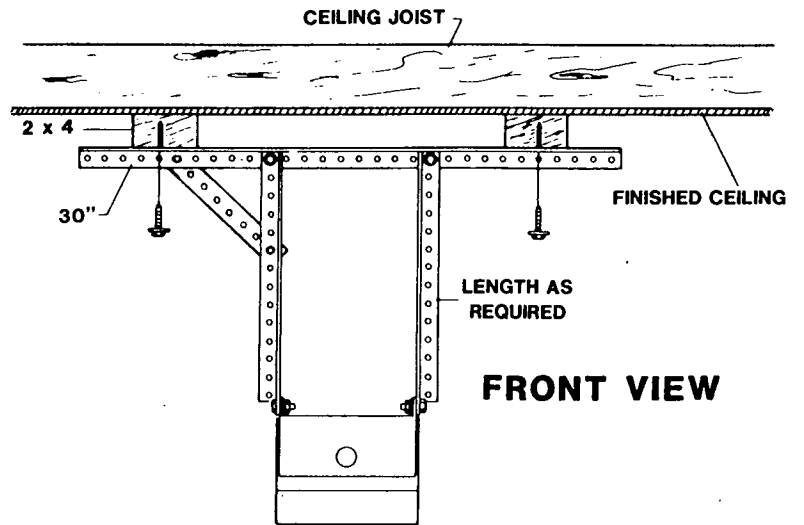
INSTALLATION

CROSSWISE CEILING JOISTS

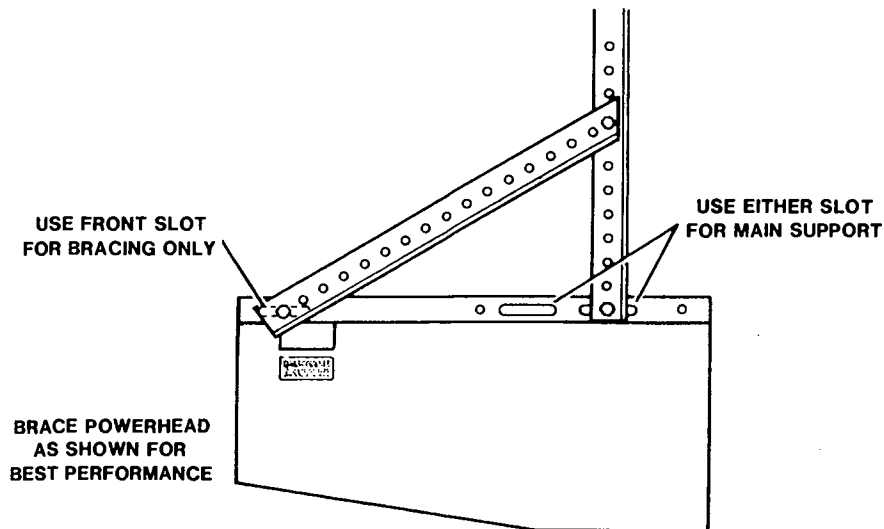


FRONT VIEW

CROSSWISE CEILING JOISTS



FRONT VIEW

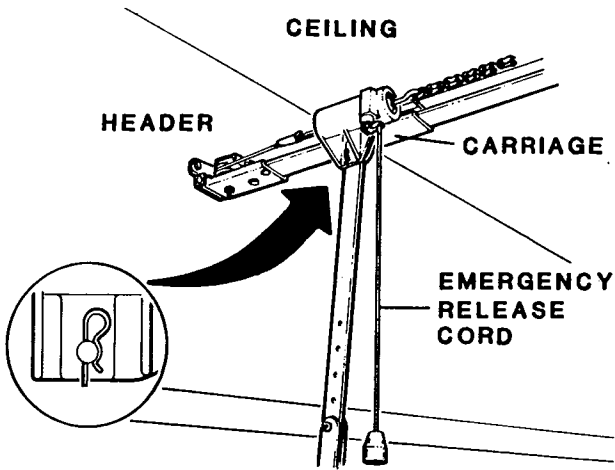


SIDE VIEW

INSTALLATION

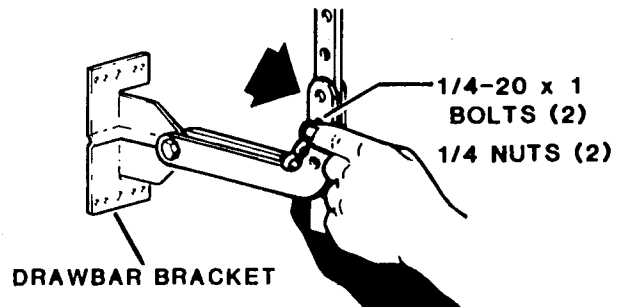
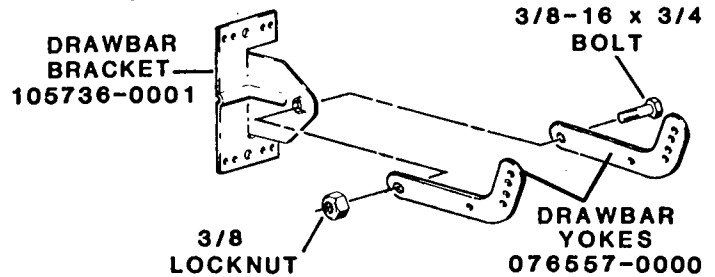
15

Plug operator cord into outlet and run carriage toward door using radio transmitter to control operator. Connect drawbar to carriage using clevis pin and hitch pin. Route pull cord through release lever on carriage and locate pull knob approximately 6 feet above floor.



16 7/16 & 9/16

Attach yokes to drawbar bracket. Tighten locknut but do not compress yokes to bracket. Yokes MUST move freely. Temporarily bolt yokes to drawbar to permit check on carriage location.

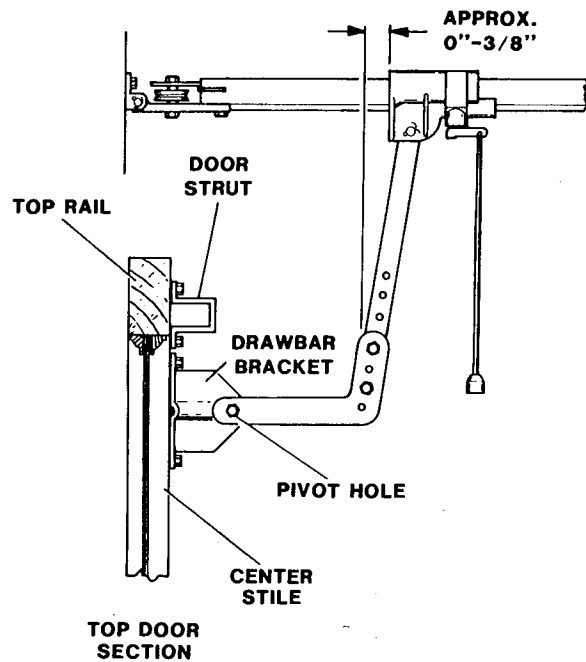


7 7/16

Position drawbar bracket against door to check drawbar angle. Drawbar should be at slight angle from door (as shown). If necessary re-adjust down limit switch (see page 15) to obtain correct drawbar position. Drawbar bracket pivot hole should be in line with top fixture roller. If necessary remove yoke bolts and readjust. Secure yoke bolts to drawbar.

NOTE

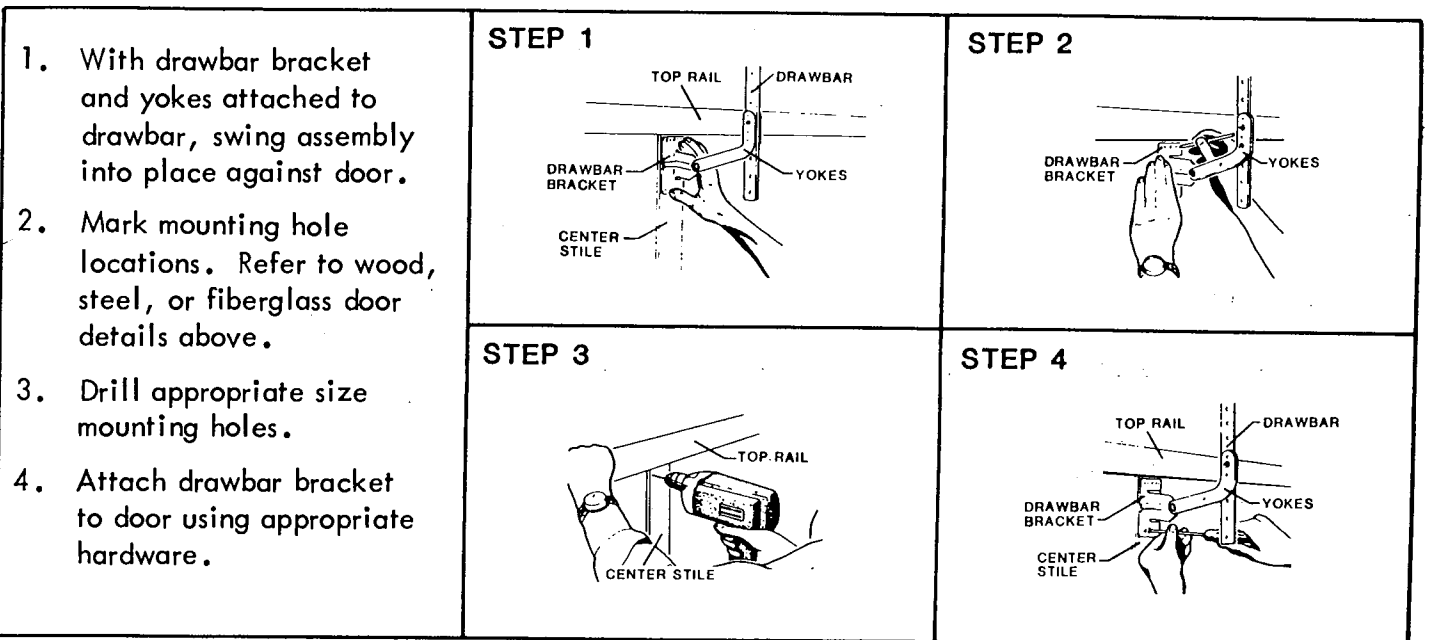
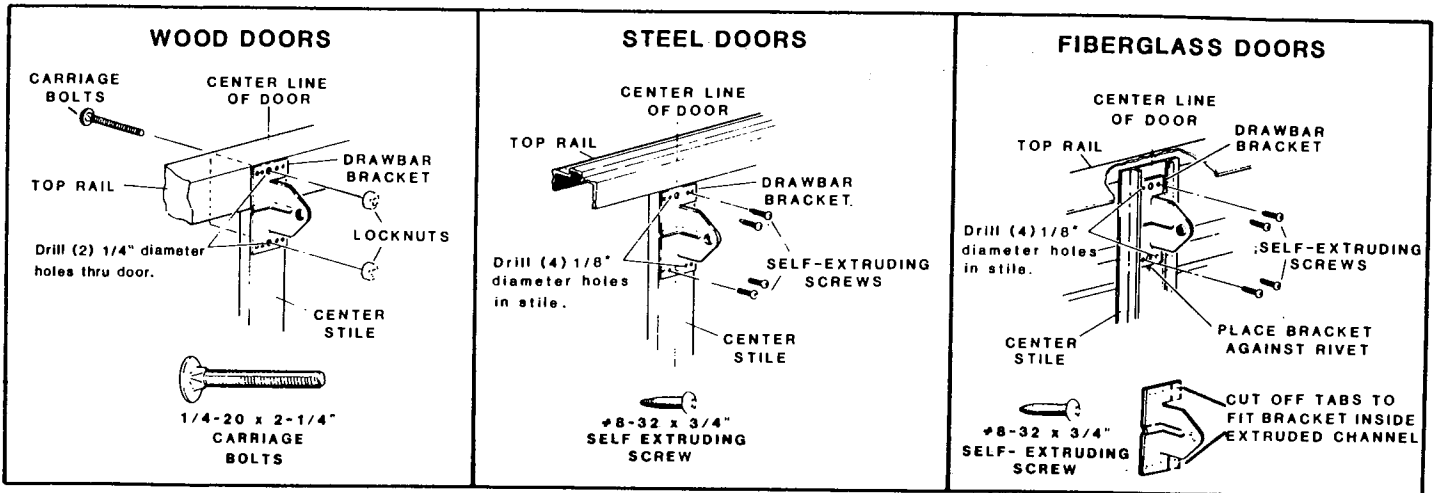
If door strut interferes with mounting of drawbar bracket, move bracket below strut. DO NOT CUT OR MODIFY STRUT IN ANY WAY. Refer to page 11 for attachment of drawbar.



INSTALLATION

18  7/18

The illustrations below depict installation of drawbar bracket, P/N 105736-0001, on 3 types of doors. Install bracket in the appropriate manner according to door type.



19 

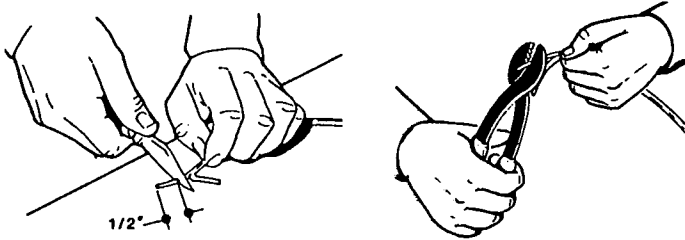
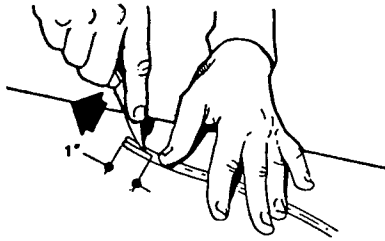
CHECKLIST

- | | |
|--|--|
| <input type="checkbox"/> Header bracket secure. | <input type="checkbox"/> Drawbar to yoke bolts tight. |
| <input type="checkbox"/> Door bracket-yoke pivot bolt secure, but not too tight. | <input type="checkbox"/> Drive chain-cable is tight (tensioned correctly). |
| <input type="checkbox"/> Header pulley assembly pivot bolt secure but not too tight. | <input type="checkbox"/> Carriage engagement cylinder is engaged with carriage. |
| <input type="checkbox"/> Hanging bracket bolts tight. | <input type="checkbox"/> Make fine adjustments on "UP" limit switch (See Page 16). |

WIRING

20

Strip end of push button wire. Carefully cut insulation around wire. Do NOT cut wire. Remove insulation.



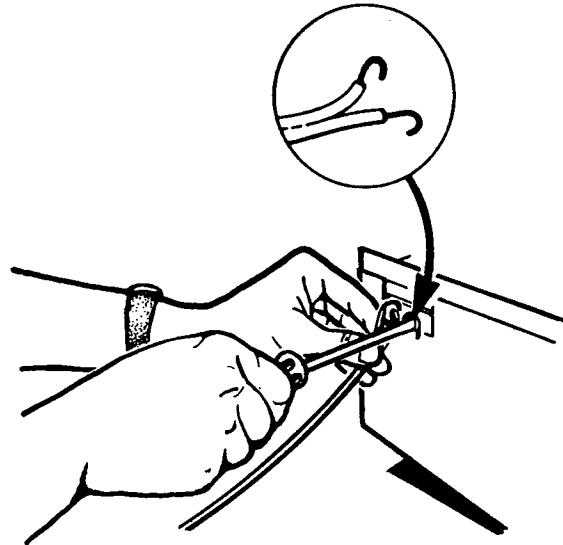
NOTE

Wire strippers are recommended for removing wire insulation.

Use only wire supplied with the operator or wire of same type and gauge.

21

Shape wire leads like a hook, and connect leads to operator terminals.



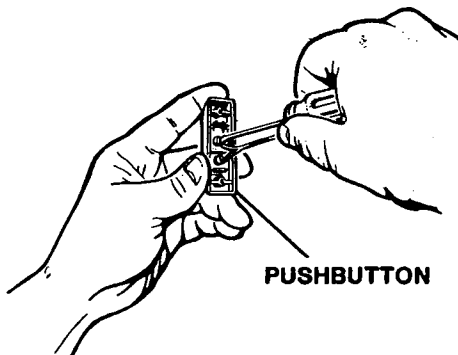
22

Route push button wire from powerhead along ceiling to garage entrance door. Staple wire as necessary to prevent entanglement or contact with moving objects.

CAUTION

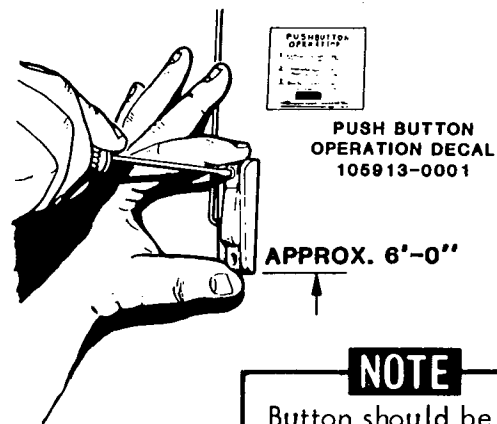
Be careful not to pierce wire insulation with staples.

Shape wire leads like a hook, and connect leads to push button terminals.



23

Install push button on wall near garage entrance door approximately six (6) feet from floor.



NOTE

Button should be out of reach of children.

Peel backing off "PUSHBUTTON OPERATION" decal and attach to wall near pushbutton.

WIRING

24 □

WARNING

It is important that electrical power to operator be off when powerhead cover is removed. Electrical power must remain disconnected while making electrical connections and limit switch adjustments. Keep hands and objects clear of powerhead if electrical power is re-connected with cover off.

Operator is equipped with a factory installed power cord and must be plugged into a 115 volt, 60 hertz, grounded electrical outlet.

CAUTION

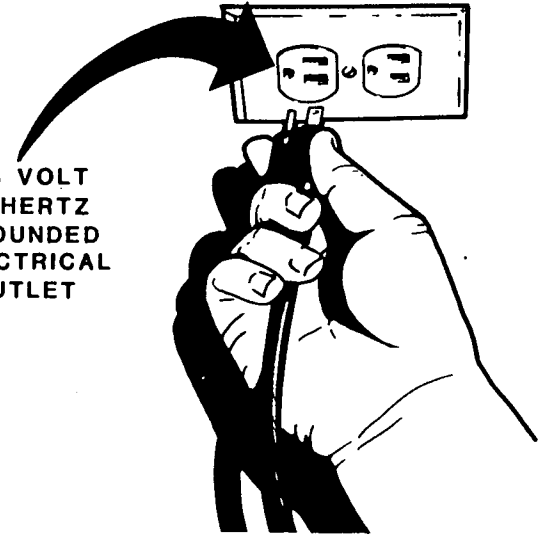
For maximum safety, it is essential that operator be properly grounded.

If a convenient electrical outlet has to be installed it is recommended that such work be performed by a licensed electrician. Use of an extension cord is NOT RECOMMENDED.

NOTE

If extension cord is required for temporary testing and adjustment, use only 3 wire (grounded) with a minimum 10 amp rating. This will assure proper operation of electronic system.

115 VOLT
60 HERTZ
GROUNDED
ELECTRICAL
OUTLET



When installing a convenient electrical outlet, it is suggested that an electrical switch be installed to facilitate emergency power cutoff.

25 □

If local electrical codes require permanent wiring, it is recommended that such work be performed by a licensed electrician.

Remove cover (4 screws).

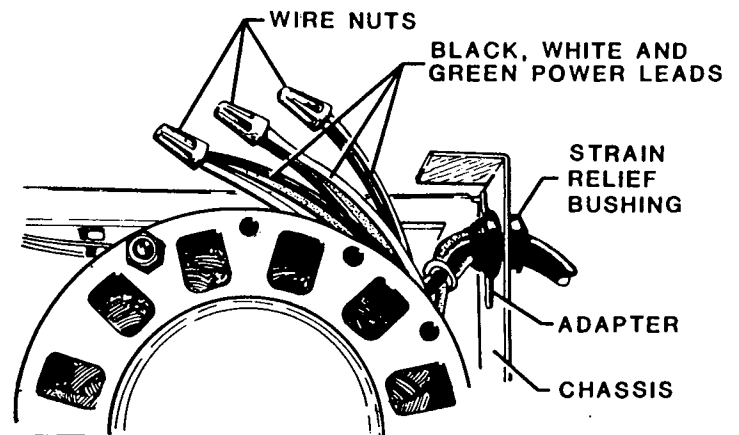
Remove and discard strain relief bushing and adapter.

Remove wire nuts and disconnect power cord lead wires.

Make conduit connection to chassis.

Connect permanent wiring leads to powerhead leads and re-install wire nuts.

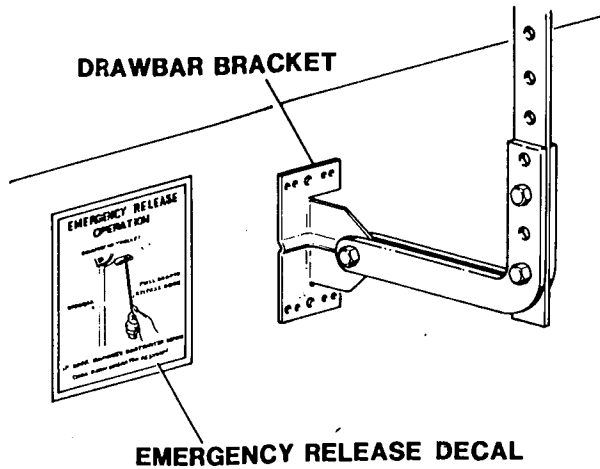
Re-install cover.



OPERATION AND ADJUSTMENT

26 □

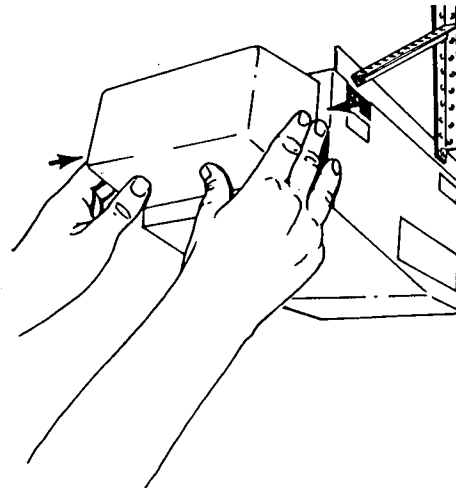
Remove protective backing from EMERGENCY RELEASE decal and install on door, near drawbar bracket.



27 □

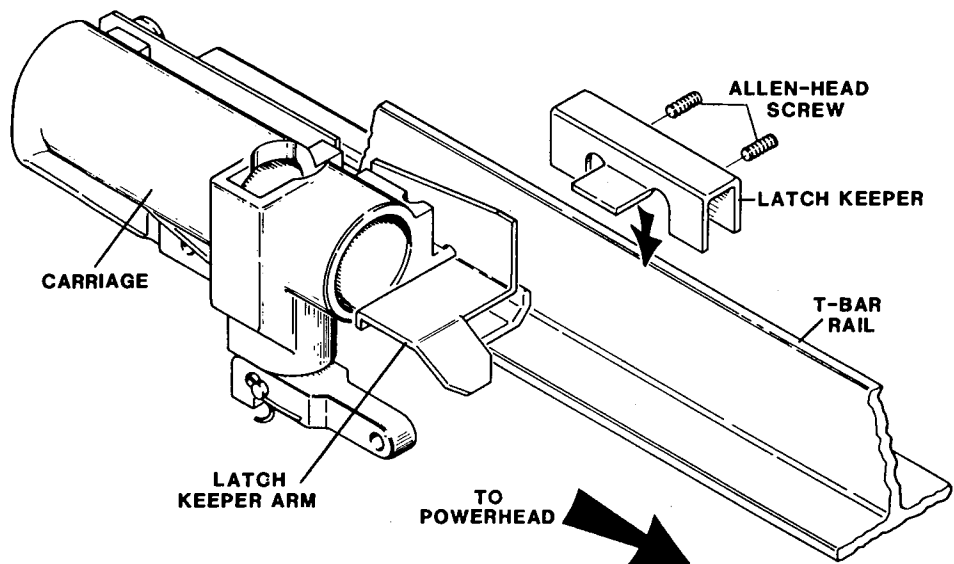
Install light bulb.

Depress ends of light lens and insert tabs into slots on front of operator. Depress ends to remove lens.

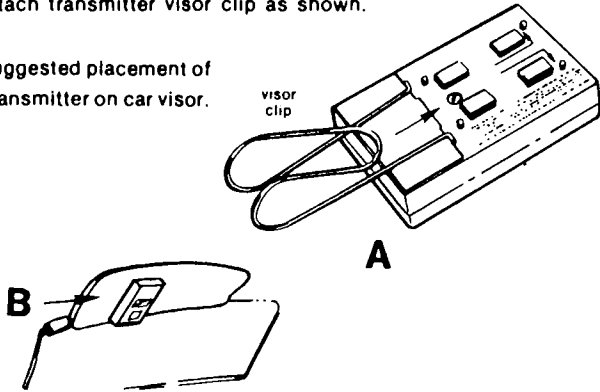


28 □ 1/8

With the door in the closed position, install latch keeper between carriage and powerhead. The latch keeper arm should be 1/4" to 1/2" behind carriage latch. Firmly tighten set screws using 1/8" allen wrench.

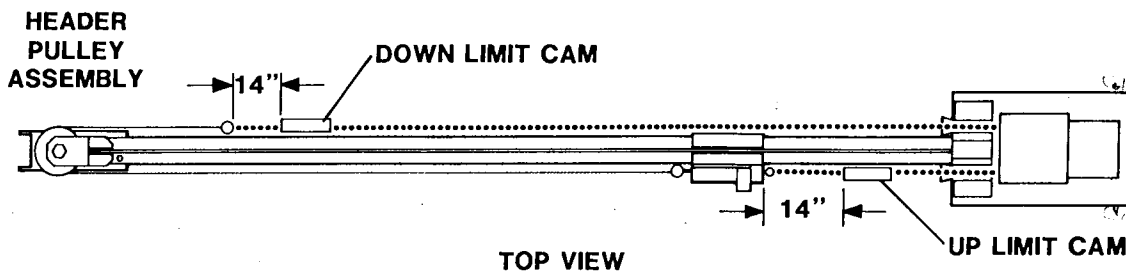


OPERATION AND ADJUSTMENT

Transmitter Visor Clip Mounting	General Information
<p>A. Attach transmitter visor clip as shown.</p> <p>B. Suggested placement of Transmitter on car visor.</p> 	<p>If you have two transmitters and one does not work it is reasonable to assume the problem is in the transmitter. However, when you have one transmitter and the above hints do not help, the problem may be in the receiver. When returning controls to the factory for service it is always recommended that you send the receiver and all the transmitters so they can be serviced and tested as a set.</p> <p>When writing to the factory for assistance or when returning a control for repair be sure to include the following information:</p> <ol style="list-style-type: none"> 1. RADIO CONTROL MODEL NO. 2. NUMBER OF TRANSMITTERS 3. DOOR OPENER MODEL NO. AND MANUFACTURERS NAME 4. DATE UNIT WAS INSTALLED 5. NATURE OF DIFFICULTY <p style="text-align: center;">SEE PAGE 19 FOR ADDRESS</p>

CHAIN CAM ADJUSTMENT

Door travel is limited by the placement of the chain limit switch cams. Moving a chain cam one chain link, varies carriage movement by approximately 1/2 inch (and thus affects door travel proportionately). Use the transmitter to control the operator when making final adjustments.



DOWN TRAVEL ADJUSTMENT

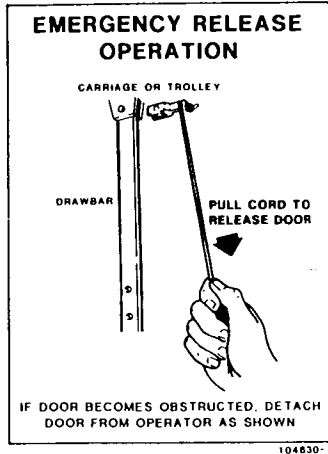
Using transmitter, run carriage to down position. Check position of carriage and, if necessary, readjust so that the drawbar will be almost vertical when the door is closed. To readjust, use transmitter to move carriage approximately 2 feet in the open direction, stop, then adjust chain cam. Using transmitter, again run the door to closed. Check to see that the door is sealing properly to floor. Repeat procedure if further adjustment is needed.

UP TRAVEL ADJUSTMENT

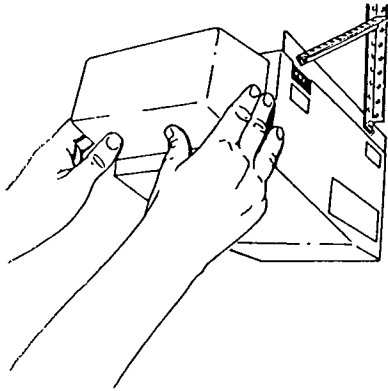
Using transmitter, run carriage to the up position. Check door position and readjust chain cam as necessary to stop door just after clearing the top of the door opening. Do not allow the door to open beyond this point.

GENERAL INFORMATION

- When "Emergency" or "Manual" operation of door is required, refer to "EMERGENCY RELEASE OPERATION" decal mounted on garage door.



- Operate door only when fully visible and clear of all persons and obstructions.
- Do not permit children to play in door area or with transmitter.
- If light does not work when operator is in use replace bulb.



IMPORTANT
USE MAXIMUM 60 WATT BULB.

- Oil door hinges, rollers and springs once each year with 30 wt. oil. Wipe off excess oil.
- Transmitter is equipped with a standard 9 volt battery. Do not substitute with any other voltage input.
- Operator motor is protected against burn-out by an internal protector which will stop motor if door is opened and closed too many times in succession or if some other overload condition exists. If motor stops, allow it to cool 10-15 minutes, then, press wall push button to resume operation.
- It is suggested that every 6 months door be disconnected from operator and manually operated. Door should open and close freely. If door does not operate freely, correct the problem.

CAUTION
Repairs and adjustments to cable and spring assemblies can be hazardous and should be performed by qualified door service people.

- Lubrication of operator rotating parts, is not required, as motor is permanently lubricated and all other parts are nylon.
- DO NOT lubricate boom. It is possible a film may develop inside the nylon carriage. This film may cause binding in freezing weather. To correct, spray boom, on either side of carriage, with a spray lubricant (WD 40, LIQUID WRENCH, etc.), run operator open and closed, then wipe boom clean.

TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE
Operator inoperative from transmitter or pushbutton when pressed, BUT Light flashes at 1/2 second intervals.	* Both limits are on (Door at one and the other defective).
Door will not open using radio or pushbutton when pressed.	Short in wall pushbutton, lighted pushbutton or pushbutton circuit.
Door will not open using radio but will with pushbutton.	Defective transmitter, check battery in transmitter * Defective radio receiver.
Door starts down, runs 1 second and reverses.	* Open safety switch or circuit.
Door runs down, hits floor and reverses within 1/2 second.	Improper adjustment of down limit switch. * Defective limit switch. * Defective circuit board.
Door starts down, runs longer than 1 second, then reverses.	Obstruction in doorway or roller pathway. Hard operating or defective door. Sensitivity control set too light.
Door raises, carriage hits powerhead.	Improper adjustment of up limit switch. * Limit switch defective. * Circuit board defective.
Door runs up, won't run down.	* Down limit switch or circuitry open, * Circuit board defective.
Door runs down, won't run up.	* Up limit switch or circuitry open. * Circuit board defective.
Door runs down, hits obstruction, does not reverse immediately, but reverses in 30 seconds.	* Defective safety switch or circuitry or mechanism.
Motor runs, door will not open.	Broken chain, chain-cable, drive sprocket, or drive gear.
Door drives into floor and does not stop running until thermal shutdown.	* Stuck relay contact.
Door drives into powerhead and does not stop running until thermal shutdown.	* Stuck relay contact.

* Requires the assistance of a qualified repairman.

The following is the self test the new microprocessor will do at first when the unit is powered up and also at the end of the light timing cycle (4 minutes). The light timing cycle of four minutes is always just after a motor run period. "Symptom" lists what the operator light will signal if there is a self test failure and "Possible Cause" lists what the detected failure is that causes the microprocessor to signal the problem. It is assumed of the time of power up, that there will be only one limit on (if any) and no signal from the radio receiver or pushbutton.

Light flashes at 1/2 second intervals.	Both limits are on (door at one and the other defective).
Light flashes at 1 second intervals.	Safety switch is on or the safety circuit is defective.
Light flashes at 1 1/2 second intervals.	Short in wall pushbutton, lighted pushbutton or pushbutton circuit, or a failure in the radio output circuit.

TRANSMITTER SERVICE HINTS

NATURE OF DIFFICULTY:

1. Short Distance-

When Battery Condition Light is quite dim or begins to flicker, replace battery. (Refer to "Frequency Coding" on Page 15.

2. Inoperative or Intermittent Operation-

- Check Frequency Code Switches in transmitter or receiver.
- When Battery Condition Light is quite dim or begins to flicker, replace battery.
- Be sure battery connector makes good contact to battery terminals.

OPERATION AND ADJUSTMENT

Operation

TO START OPERATOR:

- Press transmitter button 1 time
- Press pushbutton 1 time

TO STOP OPERATOR

- Press transmitter button 1 time
- Press pushbutton 1 time
(Operator will restart in opposite direction.)
- Door restarts in "OPEN" cycle after power failure.

Sensitivity Adjustment

This adjustment controls the amount of force the operator can apply in the "Down" direction before reversing if door travel is obstructed. For minimum closing force, adjust screw for less sensitivity.

Because each door/operator combination is not the same, the "Down" sensitivity must be set for each installation. Adjustments must be made with at least 1/2 turn increments (See Fig. 1 below). For maximum sensitivity (minimum permitted closing force), alternately turn adjusting screw counterclockwise and operate door in closing cycle. Repeat until door will not close without reversing. Next, turn adjusting screw clockwise until door can be operated through a complete closing cycle without reversing. To test, place a firm but pliable item, such as a paste board carton or a plastic trash can (laid on its side) in the path of door and start operator to close. Door should reverse without crushing object. Test sensitivity periodically.

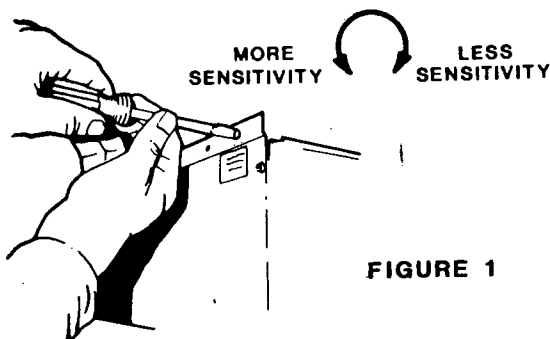


FIGURE 1

Your Radio Control System

Your Trinary Digital Radio Control is designed to give years of trouble-free service. The concept of Digital Control is to allow you, the homeowner, the availability of changing the frequency coding of your control, should you experience "phantom" operation. Phantom operation is the inadvertent opening or closing of your garage door by an outside signal source other than your own a hand-held transmitter.

Should you experience this inadvertent operation, follow these simple steps to change the frequency coding of your transmitter(s) and receiver. We DO NOT recommend changing frequency coding UNLESS you are experiencing "phantom" operation.

How To Change Frequency Coding

1. Disconnect power to door opener.
2. Remove door opener cover to expose receiver circuit board.
3. Open transmitter access door as shown.

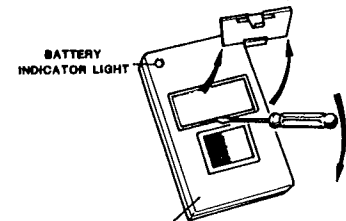


FIGURE 2 TRANSMITTER

Insert small screwdriver in access door slot and snap out code switch access door.

4. To change the frequency code simply change the position of one or two of the code switches on the Receiver and Transmitter(s) circuit board. PLEASE NOTE: The code switches (three position) of the Receiver and Transmitter(s) must correspond to each other. Example: If code switch No. 1 is "+" in the Receiver, code switch No. 1 must be "+" in the Transmitter(s). If code switch No. 2 is "-" in the Receiver, code switch No. 2 must be "-" in the Transmitter(s), and so on.

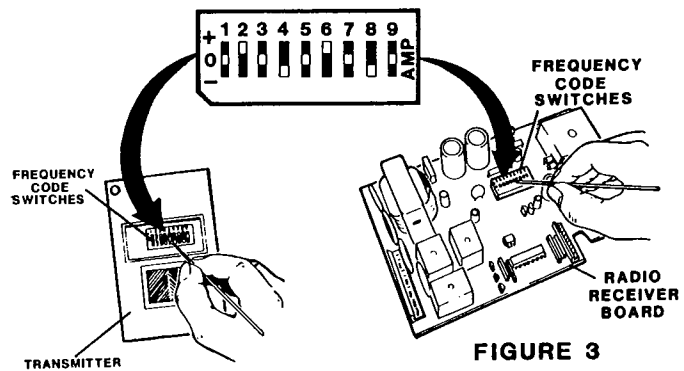


FIGURE 3

NOTE:

The transmitter frequency code must agree with the receiver frequency code.

5. If you have purchased only one Transmitter and you wish to purchase a second one, specify the frequency code found on the white sticker on the back of the Transmitter or Receiver case.

EXAMPLE:

FREQ 340-AVO
MFG. 810915

Specify frequency number and letters when ordering a second transmitter.

When you receive the new transmitter it will NOT work with your present Digital receiver if you have previously changed the frequency code switches in the receiver. You MUST position the new transmitter frequency code switches to the same "+", "0", "-" sequence as your receiver frequency code switches.

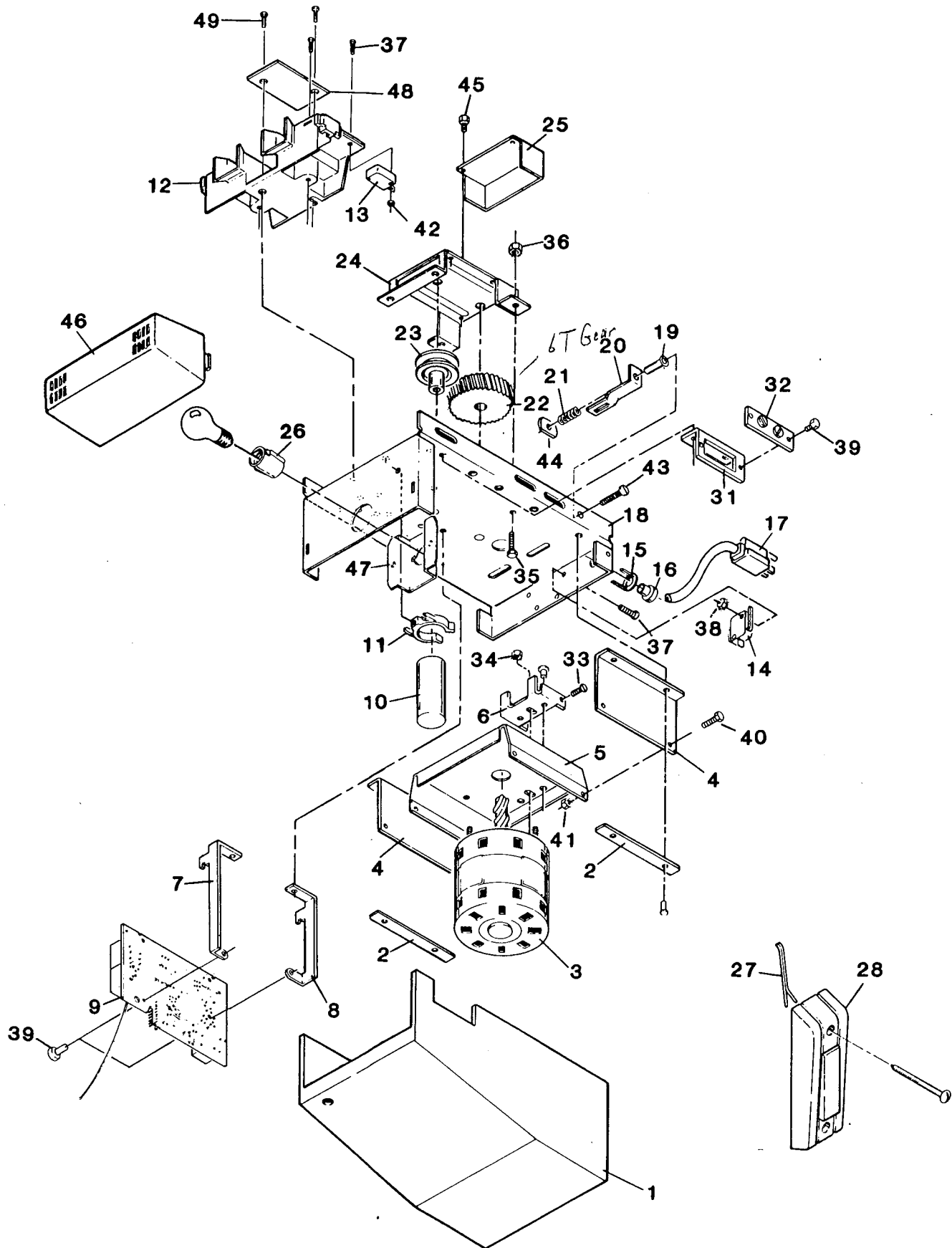
(REFER TO ITEM 4)

6. Replace door opener cover.
7. Reconnect power to door opener.

NOTE:

Warranty on the Control will be nullified if service other than specified in the service hints is not performed at the factory.

ILLUSTRATED PARTS BREAKDOWN



PARTS LIST

1	106566-0001	Cover Assembly
2	102147-0001	Motor Support
3	102142-0001	Motor
4	102137-0001	Motor Mounting Angle
5	102105-0001	Motor Bracket
6	102101-0001	Safety Trigger
7	105359-0001	Circuit Board Mounting Bracket
8	105358-0002	Circuit Board Mounting Bracket
9	106549-0001	Circuit Board
10	077156-0001	Capacitor, 330VAC, 54-64 μ F <i>Sp. 2.0</i>
11	077452-0001	Capacitor Clip
12	106484-0001	Limit Switch Assembly
13	106505-0001	Limit Switch
14	106504-0001	Down Sensitivity Switch
15	080628-0000	Adapter
16	076877-0012	Strain Relief Bushing
17	077085-0000	Power Cord
18	106649-0001	Main Frame
19	104050-0001	Eyelet
20	102102-0001	Safety Trigger Retainer
21	102087-0001	Sensitivity Spring
22	104086-0001	Main Drive Gear Assembly
23	102103-0001	Chain Idler
24	102106-0001	Support Bracket

25	102104-0001	Gear Guard
26	604067-0001	Lampholder
27	080813-0001	Bell Cord Wire
28	106527-0001	Push Button
29	105352-0004	Control Wiring Harness (not shown)
30	104107-0002	Power Wiring Harness (not shown)
31	101601-0001	Terminal Bracket
32	104703-0001	Terminal Strip
33	086575-0508	Screw, Hex Hd., Slt'd, 6-32 x 1/2"
34	086480-1232	Nut, Hex w/Lockwasher, 8-32
35	080105-0404	Bolt, Hex Hd, 1/4-20 x 1/2"
36	086480-1620	Nut, Hex w/Lockwasher, 1/4-20
37	080288-0810	Screw, Rd. Hd., Slt'd, 4-40 x 5/8"
38	086480-0840	Nut, Nex w/Lockwasher, 4-40
39	607083-0001	Screw, Hex Hd., 6-32 x 3/8"
40	604723-1006	Screw, Hex Hd., 10-32 x 3/8"
41	086480-1332	Nut, Hex Lk. Fig., 10-32
42	086480-0840	Nut, Hex Lk., 4-40
43	080288-1232	Screw, Rd. Hd., Slt'd, 8-32 x 2"
44	086584-0002	Nut, Spotweld, 8-32
45	086575-0504	Screw, Hex Hd., 6-32 x 1/4"
46	104059-0001	Light Lens
47	104039-0001	Lampholder Bracket
48	106465-0001	Plate, Spacer/Retain
49	080105-0405	Bolt, Hex Hd., 1/4-20 x 5/8"

NOTE: Item 12, Limit Switch Assembly contains two limit switches (item 13)

PARTS AND SERVICE

For parts and service, contact the nearest Distributor.

When ordering parts, specify:

MODEL NUMBER

PART NUMBER

PART DESCRIPTION

Repairs to transmitter and receiver should be performed by a qualified repairman. See Radio Control Instructions.

NOTE TO OWNER

IF SERVICE IS REQUIRED ON THE CONTROL
MAIL THE COMPLETE UNIT
(RECEIVER AND TRANSMITTERS)

to

Overhead Door Corporation

Advance Operator Division

801 St. Joe

Shelbyville, IN 46176

or

Advance Industries

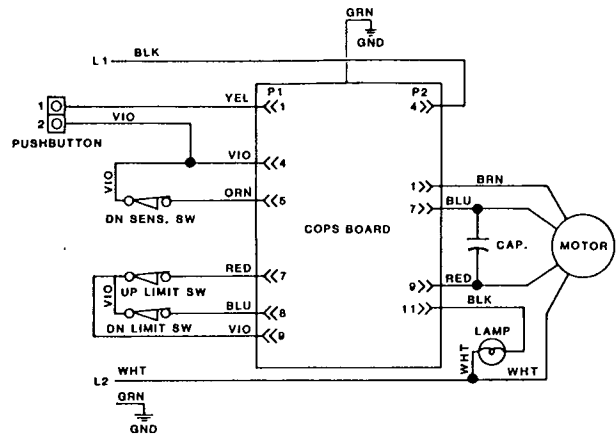
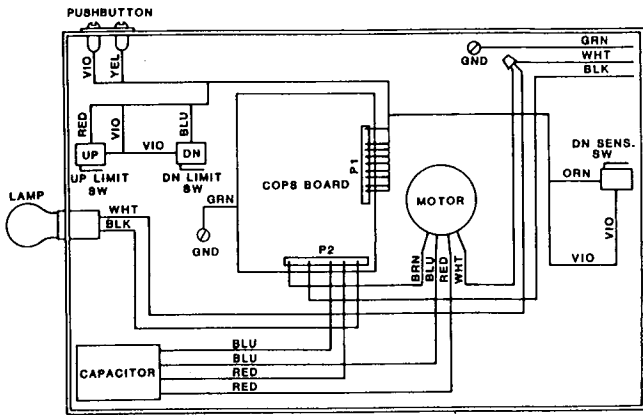
3233 W. Harvard

Santa Ana, CA 92704



WIRING DIAGRAM

WIRING SCHEMATIC



LIMITED WARRANTY

The authorized distributor of Overhead Door Corporation products whose name appears below ("Seller") warrants this automatic garage door opener system to be free from defects in material and workmanship under normal use and service. This warranty extends only to the original consumer ("Buyer").

During the following periods after the sale, Seller shall furnish the goods and services indicated to repair or replace any portion of the system determined by Seller to be defective:

- 1 year All parts and labor (including installation, if the system was installed by Seller)
- 2 years Parts only
- 5 years Motor only

The foregoing represents Seller's sole obligation under this warranty, and is conditioned upon Buyer giving notice to Seller within the respective warranty period. Proof of purchase is required.

If Seller concludes that repair or replacement is necessary, Seller will commence work within a reasonable time after the decision to repair or replace is made.

This warranty does not apply if the system has been altered or repaired by any person not authorized by the Seller, or has been subject to misuse, neglect or accident.

Seller has not established any informal dispute settlement procedure of type described in the Magnuson-Moss Warranty Act.

SELLER ASSUMES NO LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. WARRANTIES IMPLIED BY LAW ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF SALE.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

Inquiries to the Seller concerning this warranty should be directed to:

