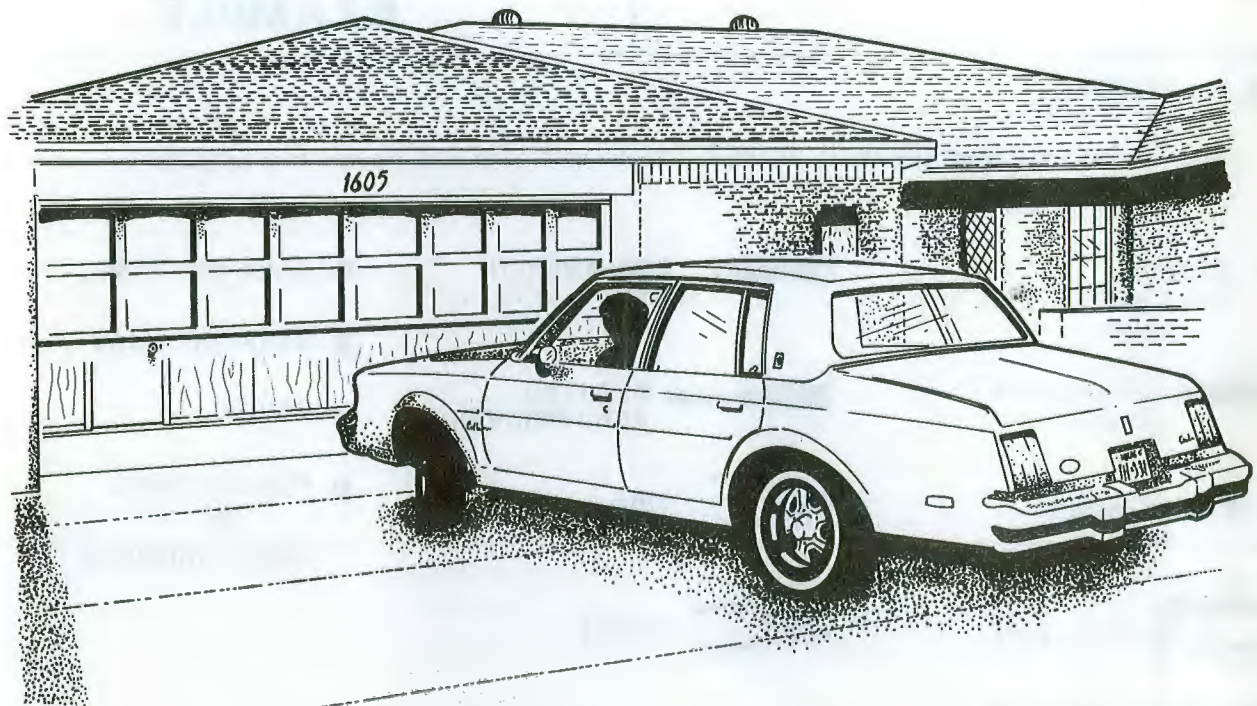


OVERHEAD DOOR CORPORATION

**MODEL 55**

GARAGE DOOR OPENER SYSTEM

**ASSEMBLY, INSTALLATION  
AND  
OPERATING INSTRUCTIONS**



**INSTALLATION KIT NOT INCLUDED.**

## TABLE OF CONTENTS

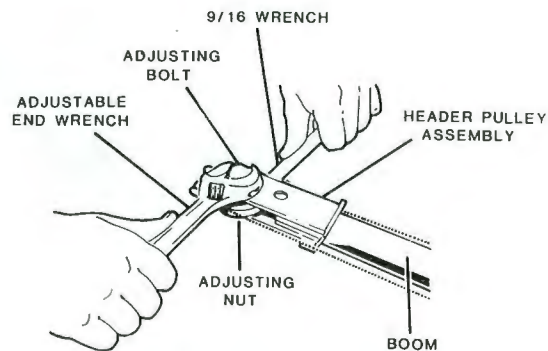
HOW TO USE THIS BOOK _____	2
TOOLS NEEDED _____	2
GENERAL NOTES _____	3
ASSEMBLY INSTRUCTIONS _____	4-9
ASSEMBLY DRAWING _____	9
INSTALLATION INSTRUCTIONS _____	10-17
WIRING _____	18-20
OPERATION AND ADJUSTMENT _____	21
TROUBLE SHOOTING GUIDE _____	22
PARTS AND SERVICE _____	22
PARTS LIST _____	22
ILLUSTRATED PARTS BREAKDOWN _____	23
WIRING DIAGRAM _____	24
WIRING SCHEMATIC _____	24

## 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.

**16** ☐  

Adjust drive chain-cable.



## EXAMPLE

## TOOLS NEEDED

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



**ELECTRIC DRILL**  
5/32 BIT  
1/4 BIT



**END WRENCH**  
7/16 & 9/16

● **TAPE MEASURE**



**CARPENTER LEVEL**



**SLOTTED SCREWDRIVER**

● **STRAIGHT EDGE**



**STEP LADDER**  
6-0



**WIRE CUTTERS**

● **PENCIL**



**HACK SAW**



**PLIERS**

● **POCKET KNIFE OR WIRE STRIPPERS**



**ADJUSTABLE END WRENCH**



**NEEDLE NOSE PLIERS**



# GENERAL NOTES

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 if door is so equipped.

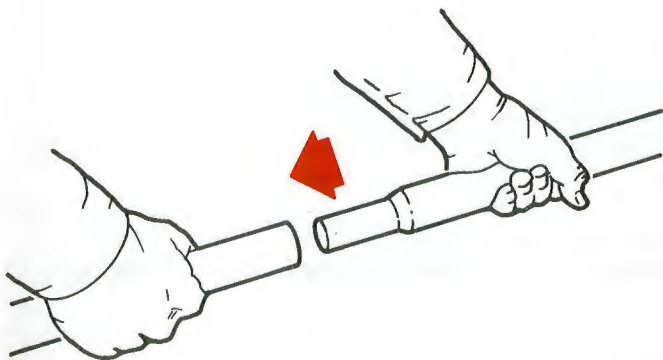
## WARNING

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

# ASSEMBLY

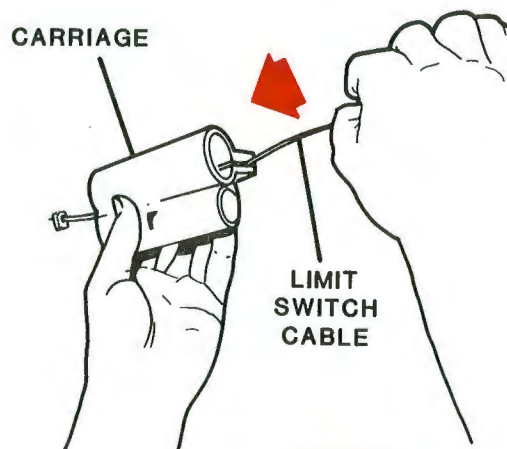
1 ☐

Lay powerhead and boom on workbench or floor. Assemble boom (3 sections).



2 ☐

Read and remove red "caution" tag from cable. Thread cable through carriage.

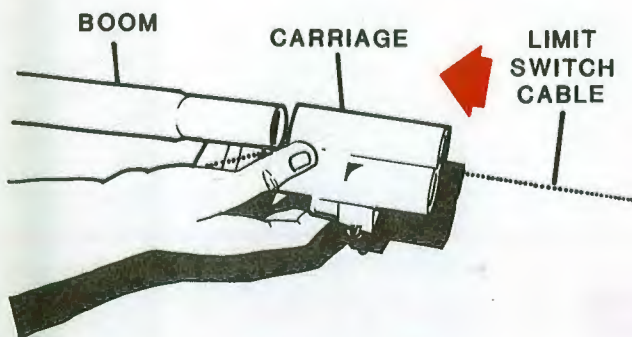


**NOTE**

Make sure cable is positioned in bottom of groove.

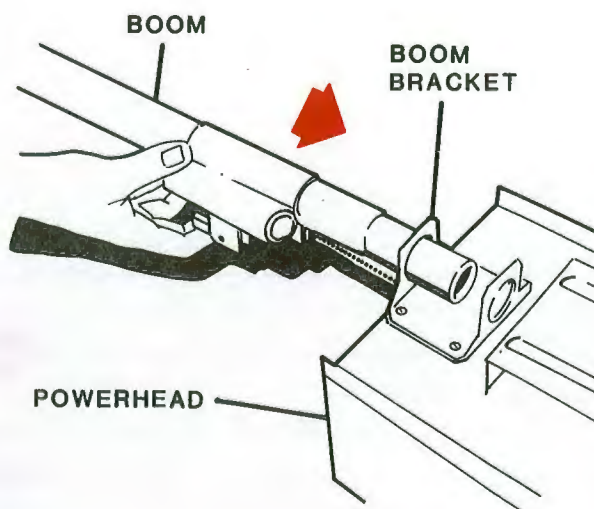
3 ☐

Position carriage over tapered end of boom.



4 ☐

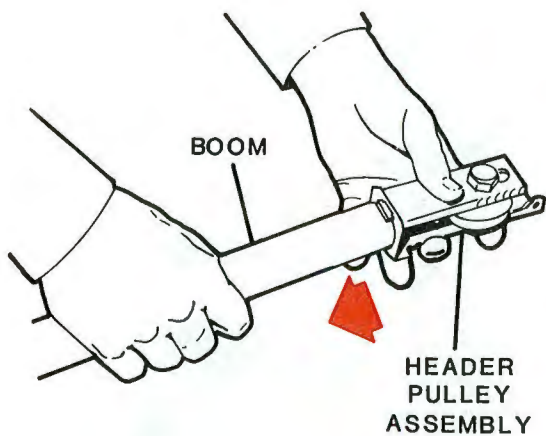
Install boom into boom bracket.



# ASSEMBLY

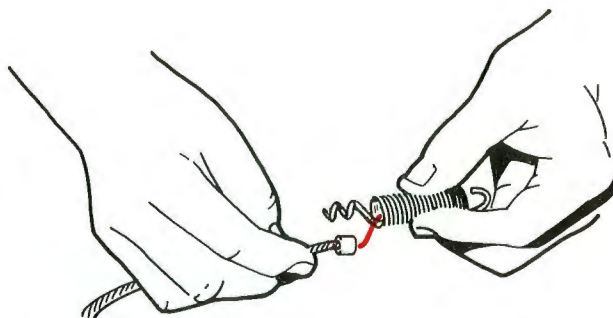
5 ☐

Install header pulley assembly on end of boom.



6 ☐

Insert cable stop into coil of spring.



7 ☐

Wind cable (counter-clockwise) into spring end.



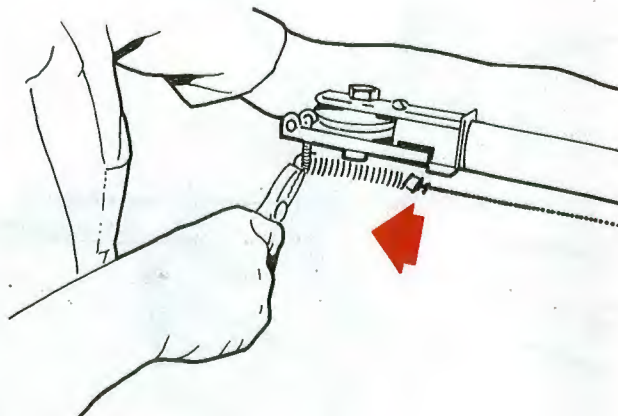
## NOTE

Make sure cable will not pull out of spring.

8 ☐



Hook spring to header pulley assembly.

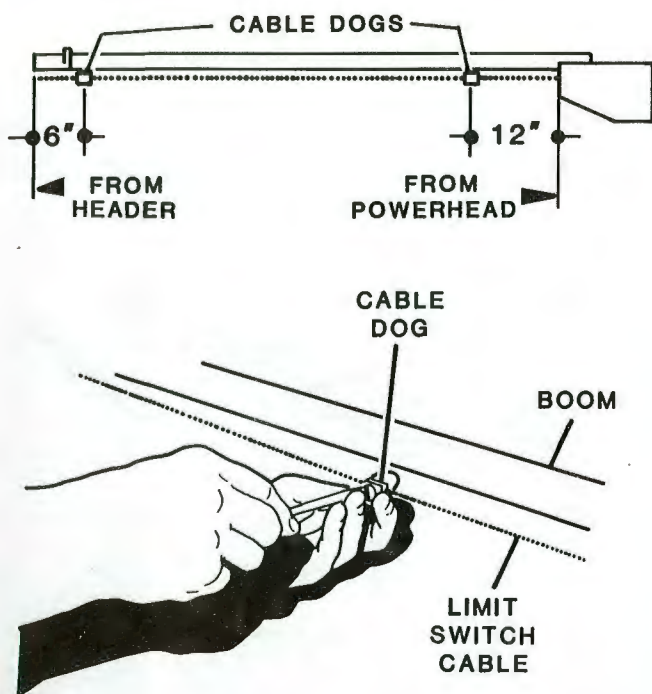




# ASSEMBLY

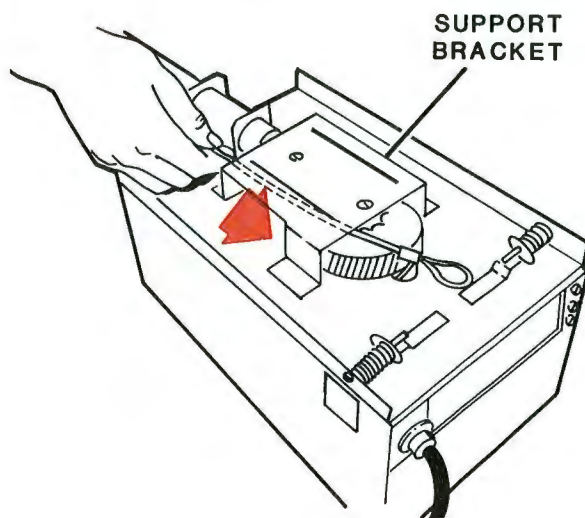
## 9

Install cable dogs on limit switch cable.



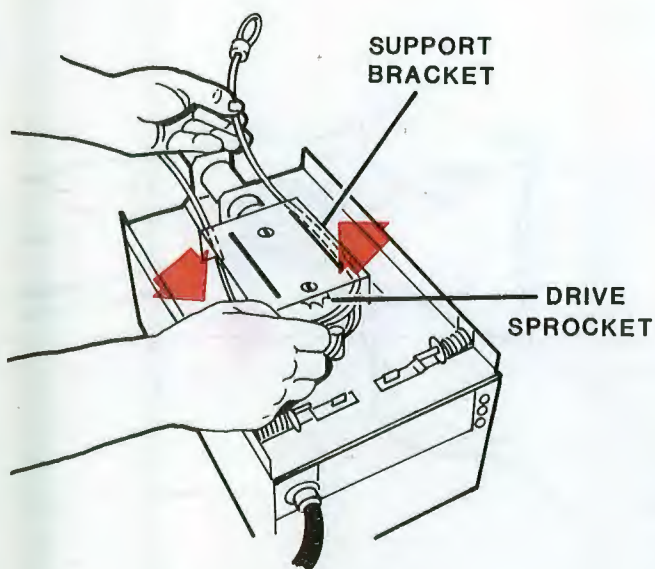
## 10

Route cable end of drive chain-cable through support bracket.



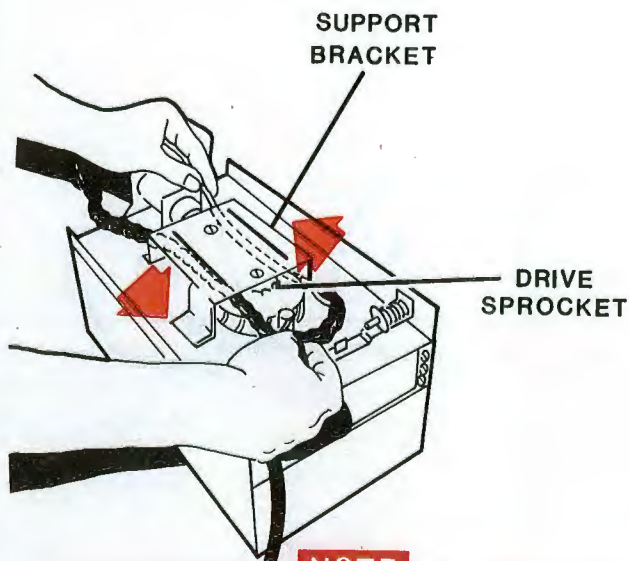
## 11

Wrap around drive sprocket and back through support bracket.



## 12

Pull cable through until chain has wrapped drive sprocket and extends past front of powerhead six (6) inches.



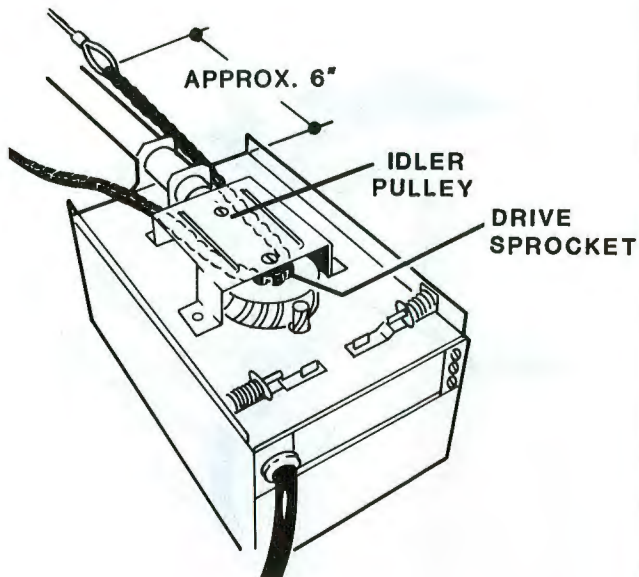
### NOTE

Make sure chain is seated in drive sprocket and idler pulley.

# ASSEMBLY

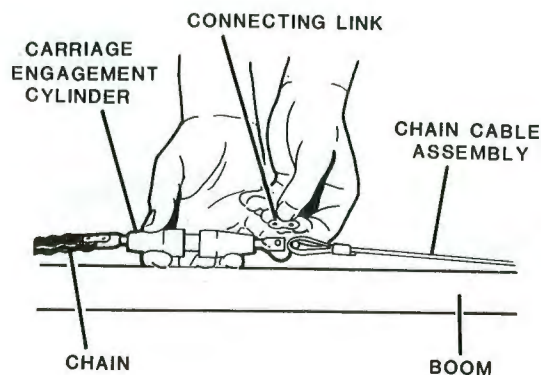
## 13

Make sure chain is seated in drive sprocket and idler pulley.



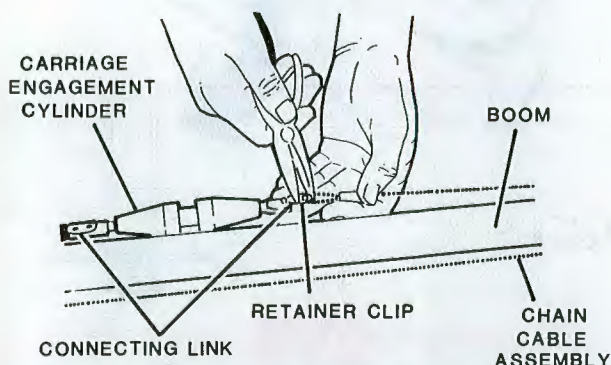
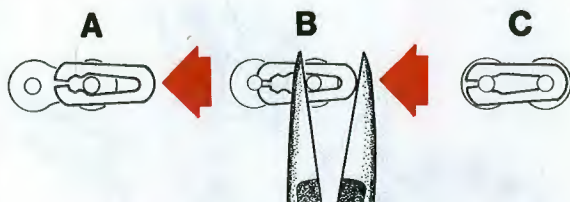
## 14

Insert carriage engagement cylinder into carriage. Wrap cable end of drive chain-cable around header pulley and back to carriage. Connect chain and cable to carriage engagement cylinder using connecting links.



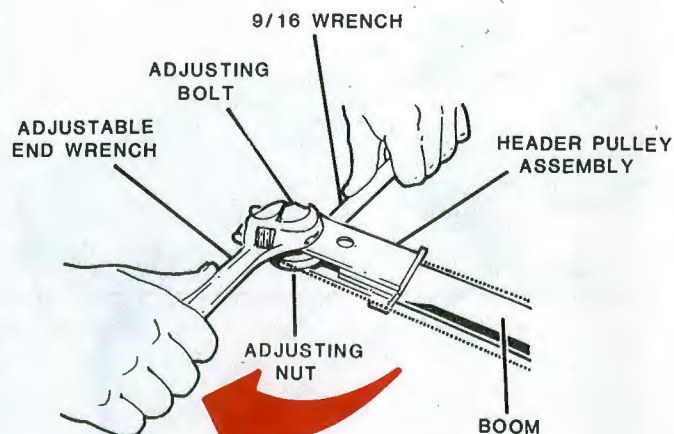
## 15

Install retainer clips on connecting links.



## 16

Adjust drive chain-cable.



TO INCREASE TENSION

**IMPORTANT**

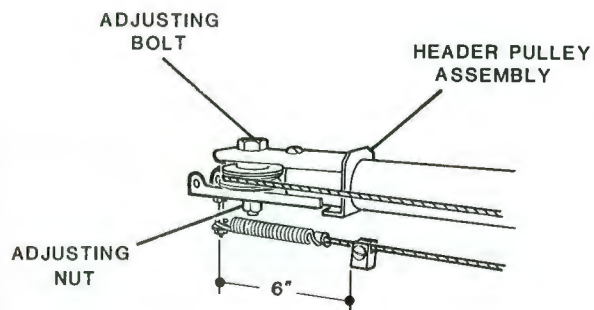
With carriage near header end of boom, chain should not sag below center line of boom more than 3/4".



# ASSEMBLY

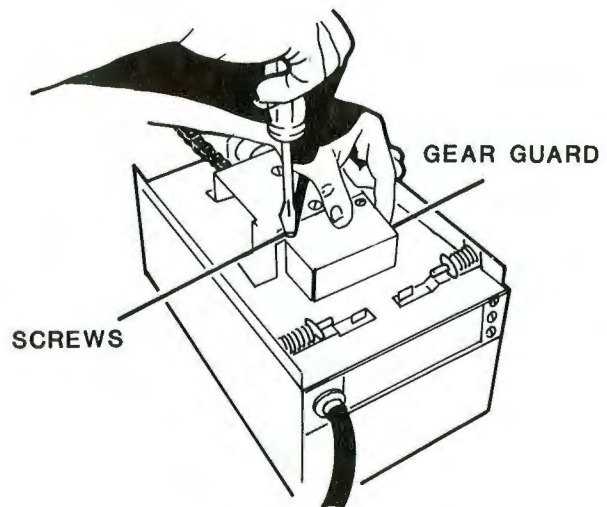
## 17

Correctly installed: - Header pulley assembly.  
- Limit switch cable,  
- Cable dog.



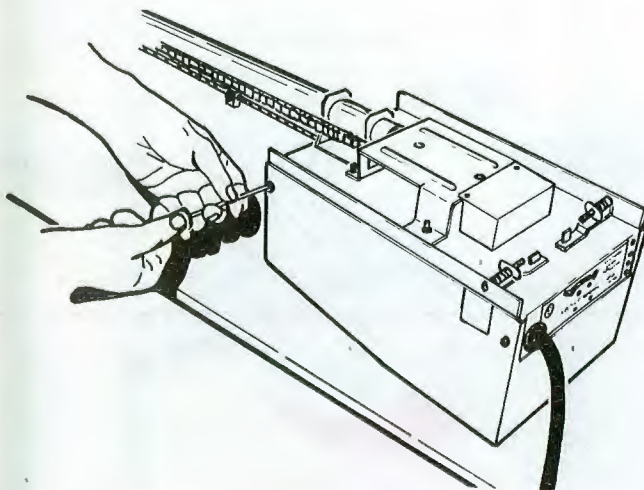
## 18

Install gear guard.



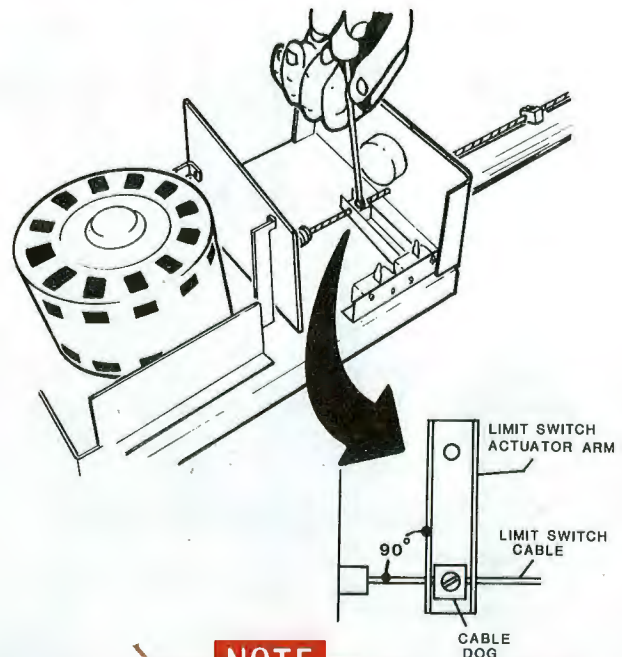
## 19

Remove cover (4 screws).



## 20

Center limit switch actuator arm.



### NOTE

Arm must be perpendicular (90°) to cable and parallel with front of chassis.



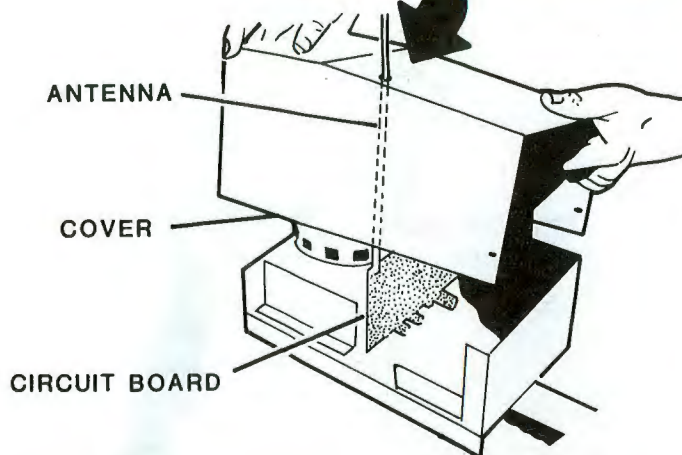
# ASSEMBLY

## 21 ☐

Re-install cover.

**IMPORTANT**

Make sure antenna is fully extended through hole.

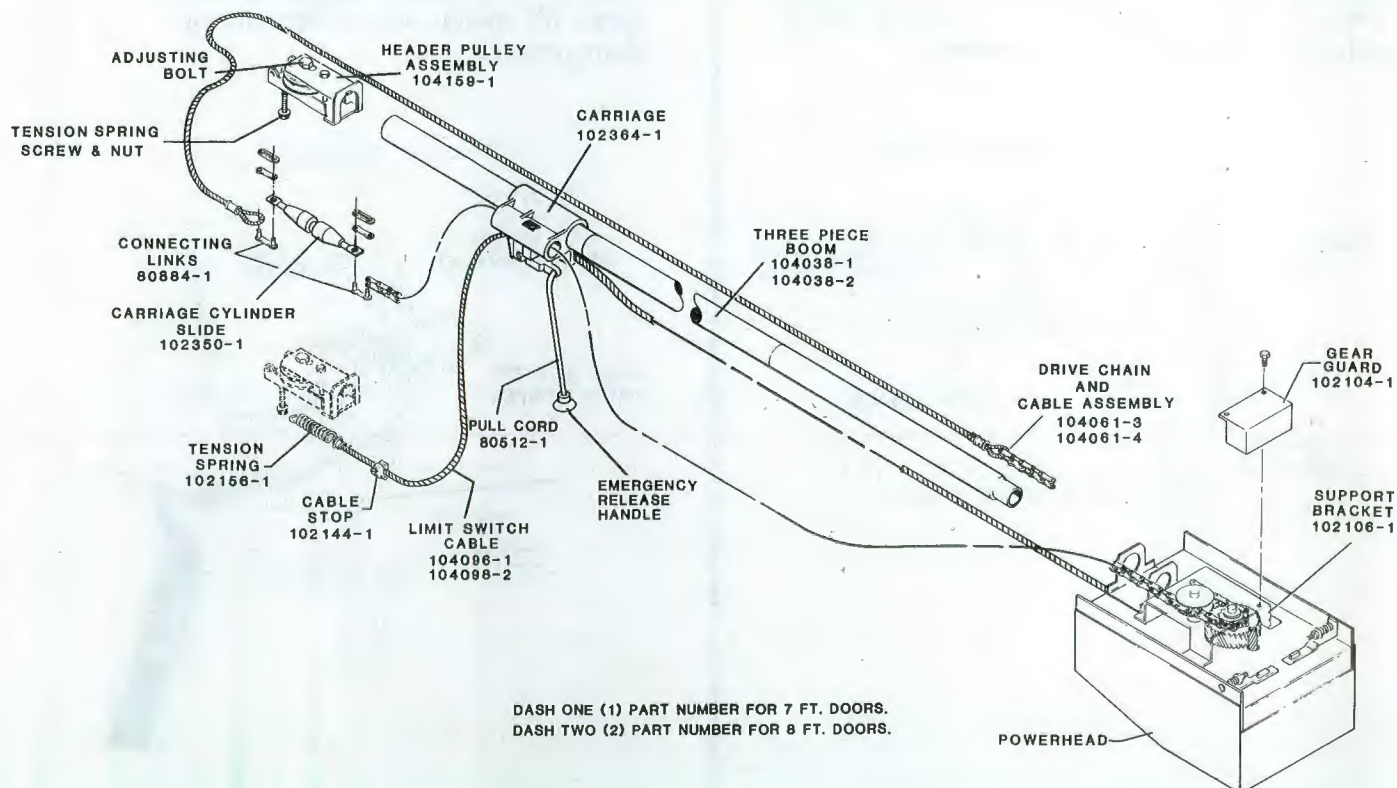


## 22 ☐

### CHECKLIST

- ☐ Header pulley assembly is positioned correctly.
- ☐ Drive chain is seated in drive sprocket.
- ☐ Drive chain is not twisted.
- ☐ Cable is seated in header pulley.
- ☐ Sensitivity cable dogs installed securely.

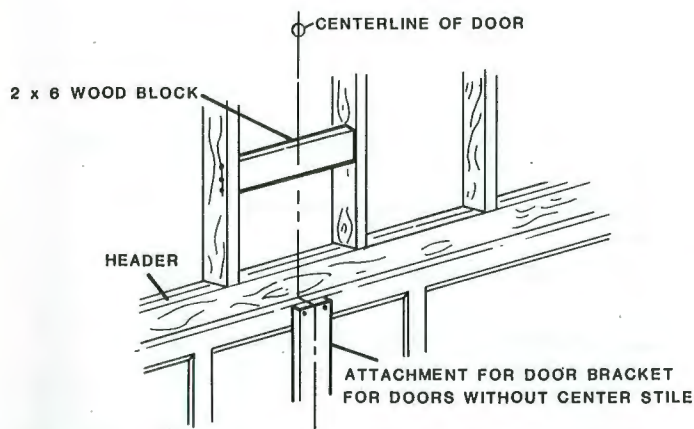
# ASSEMBLY DRAWING



# INSTALLATION

## 23 ☐

Measure width of door to determine center.

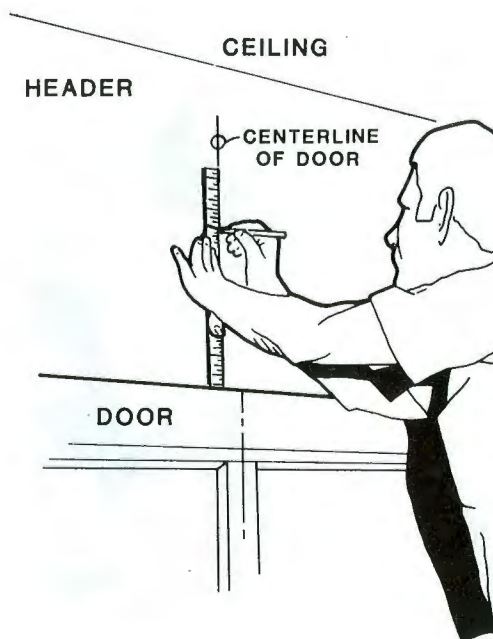


If header does not have suitable woodwork where header bracket will be installed, then such will have to be made. It is suggested that a wood 2"x6" be secured to nearby existing woodwork.

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

## 24 ☐

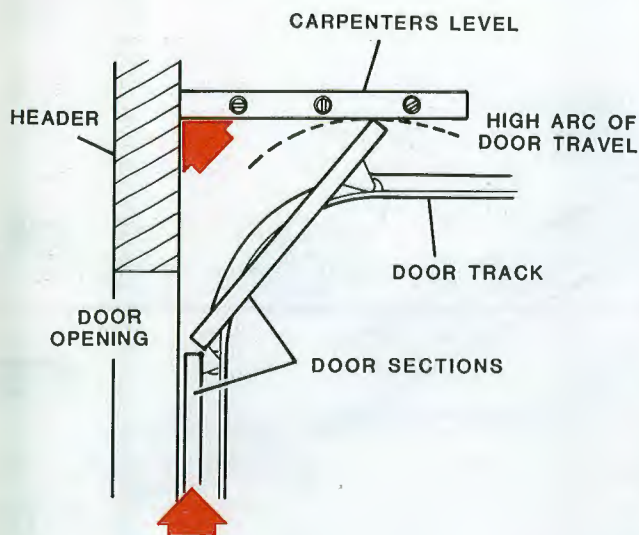
Mark center line on door and header.



## 25 ☐

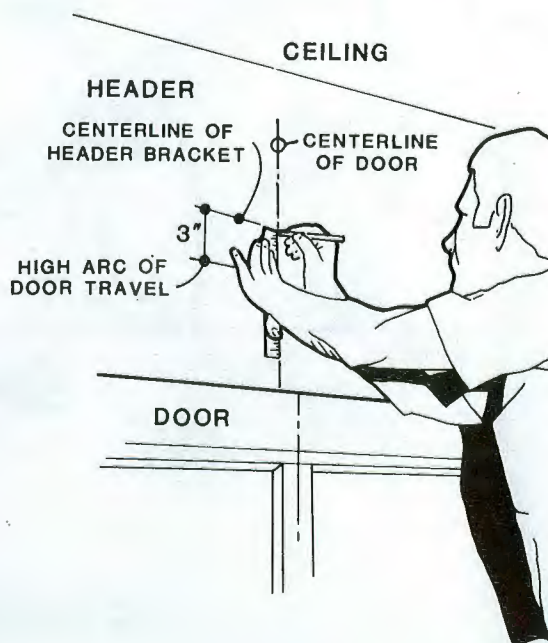


Raise door until top section reaches its highest arc of travel. Mark header on center line at point where level touches header.



## 26 ☐

Mark center line of header bracket three (3) inches above high arc of door travel.

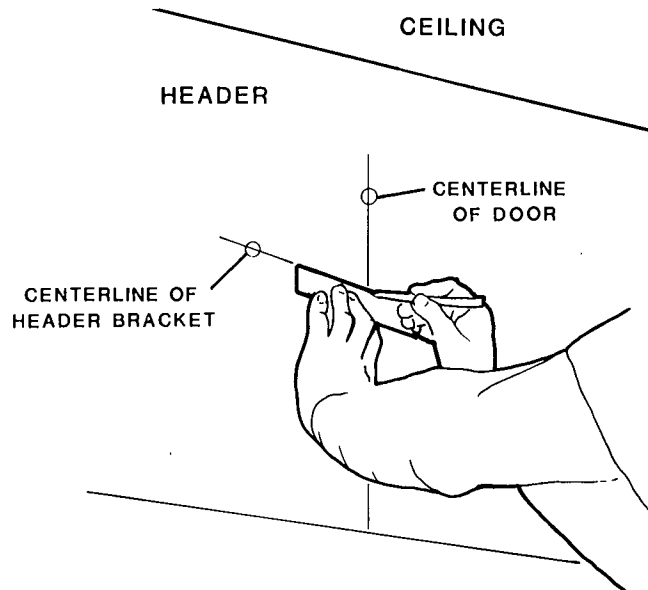




# INSTALLATION

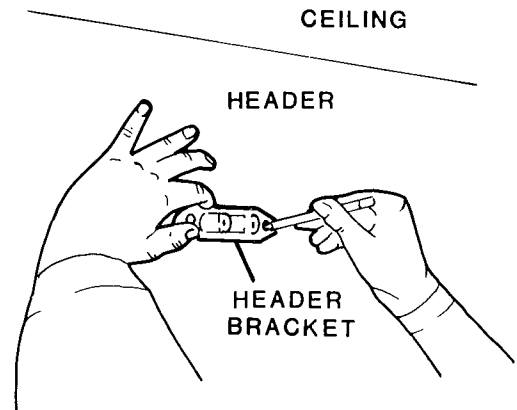
## 27

Mark horizontal center line of header bracket.



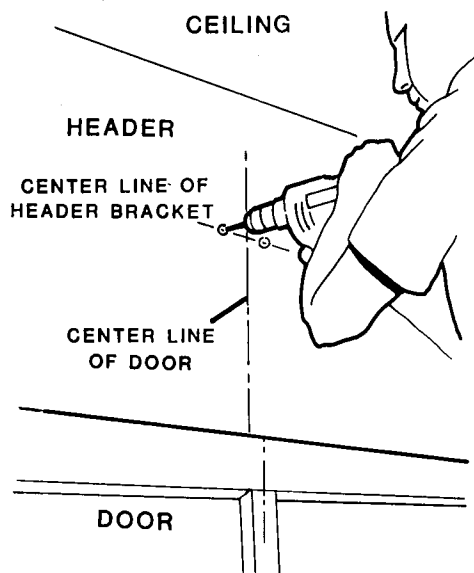
## 28

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



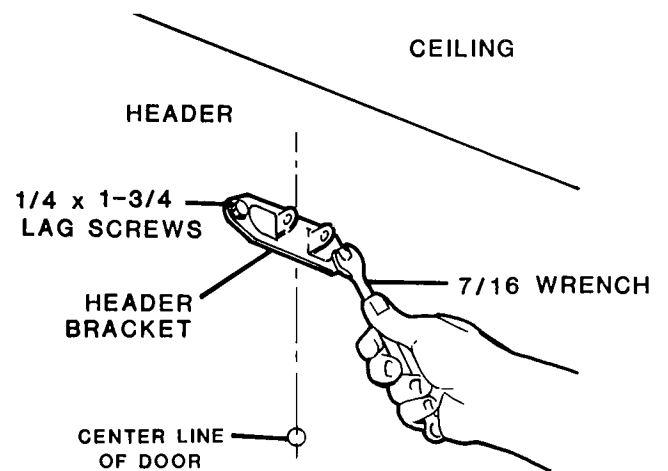
## 29

Drill  $5/32$ " diameter holes at marked locations.



## 30

Secure header bracket to header.

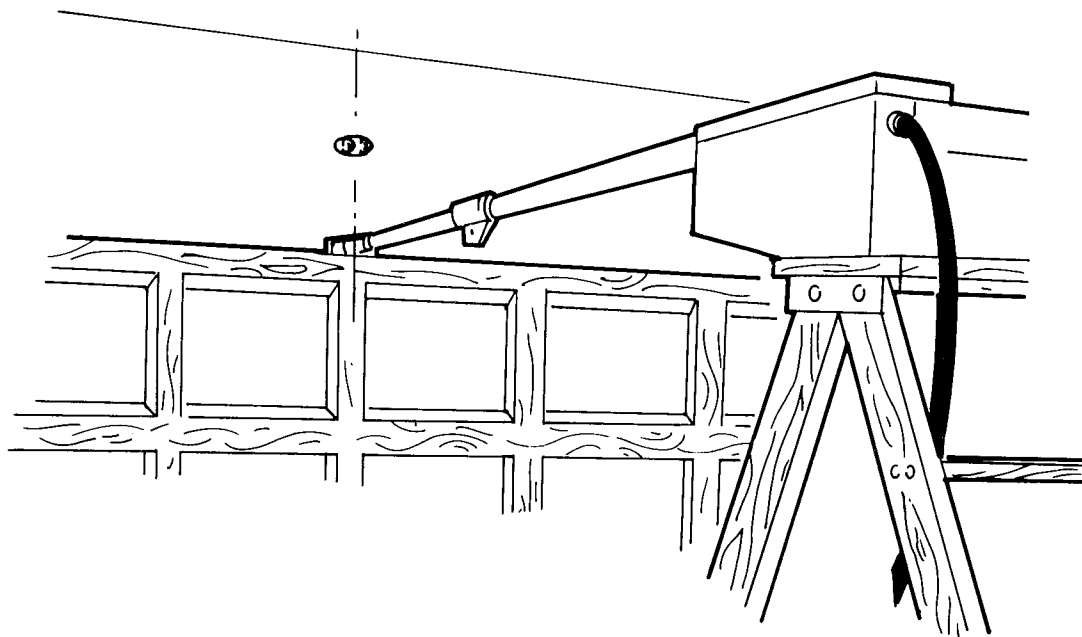


# INSTALLATION

## 31 ☐ A

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

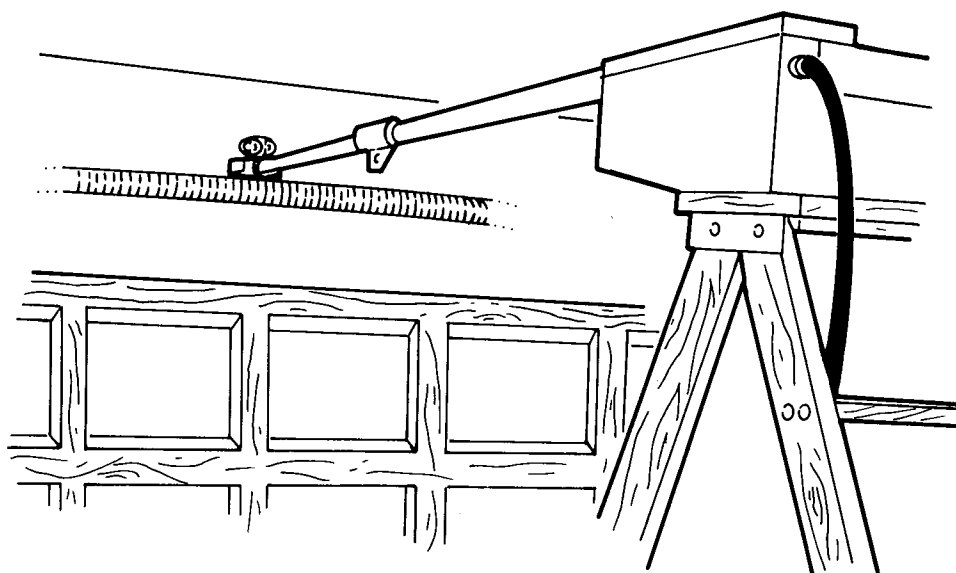
### EXTENSION SPRING DOOR



## OR

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

### TORSION SPRING DOOR

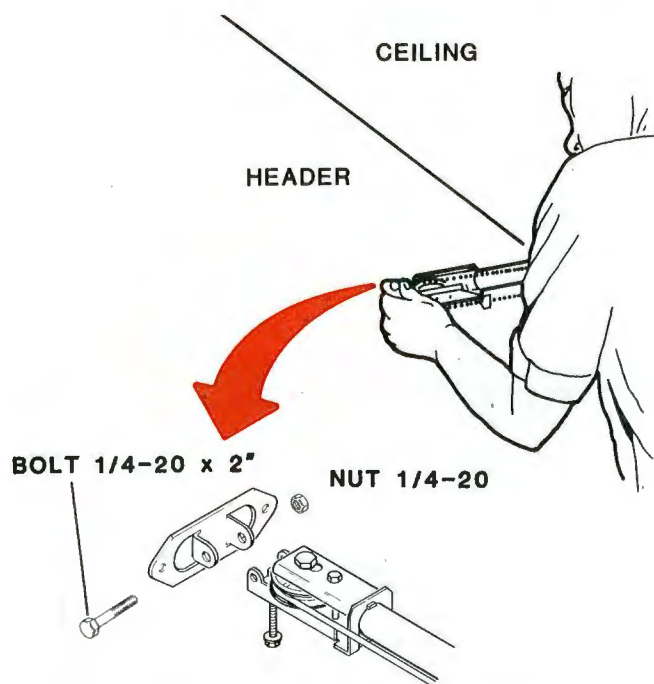




# INSTALLATION

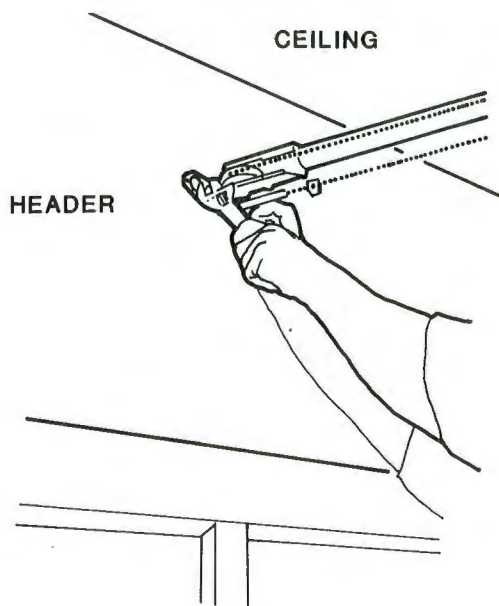
## 32 ☐

Attach header pulley assembly to header bracket.



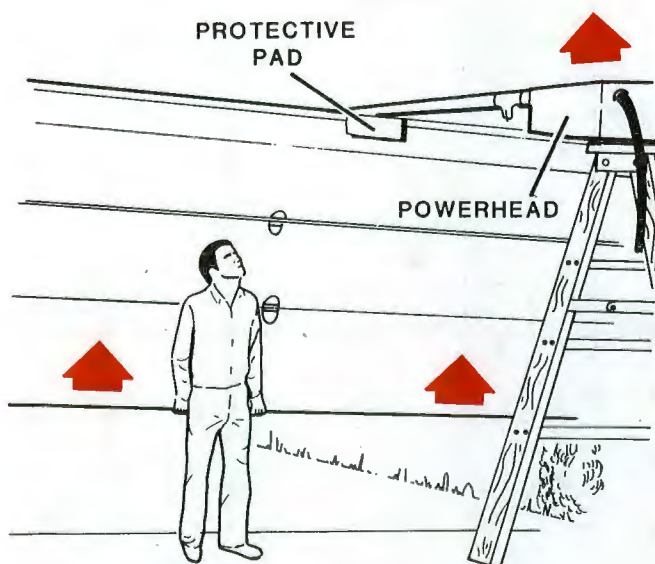
## 33 ☐

Secure header bracket bolt.



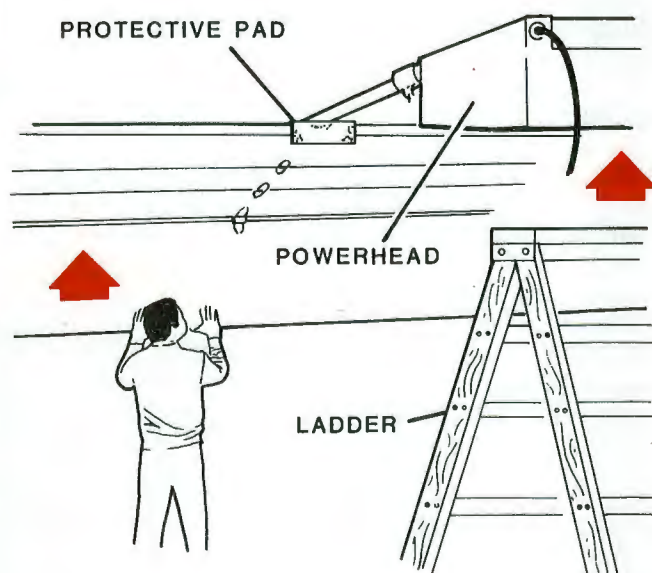
## 34 ☐

To raise powerhead: raise door slowly.



## 35 ☐

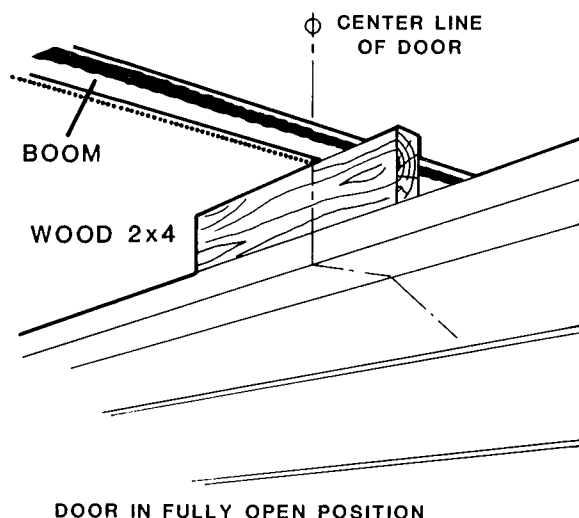
Continue raising door until fully open.



# INSTALLATION

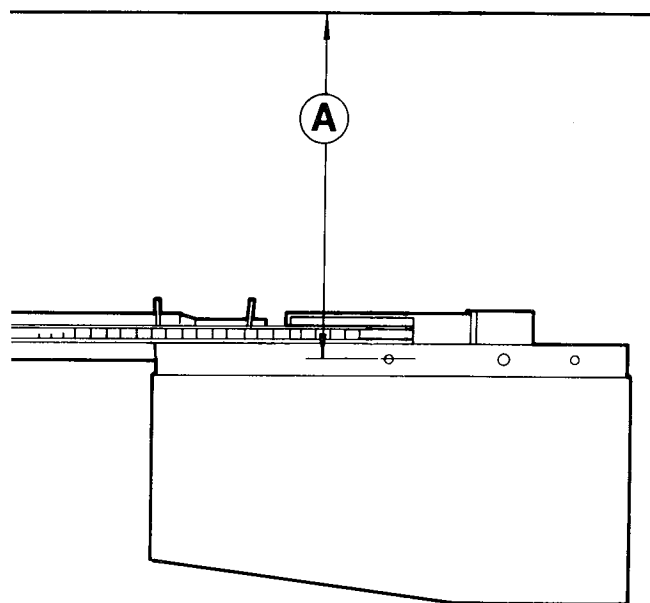
## 36 ☐

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



## 37 ☐

Measure distance from powerhead mounting hole to ceiling. This distance (A) will be used to determine length of hanging brackets.



## 38 ☐

Subtract 2 inches from distance (A)

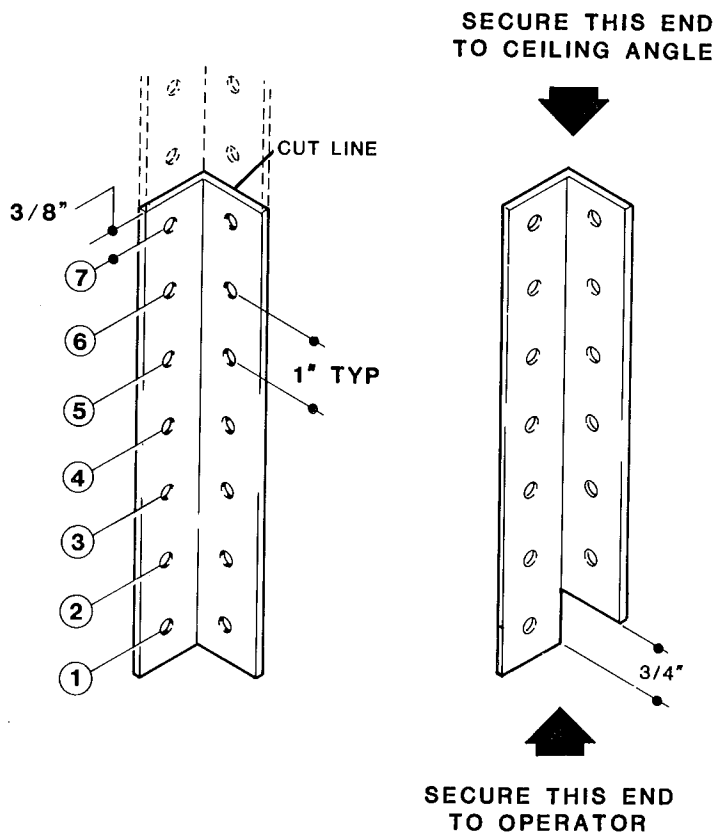
### EXAMPLE

If dimension (A) equals 9-1/2 inches, hanging brackets will have to be at least 7-1/2 inches long.

Count up 7 holes.

Cut angles 3/8 inch above 7<sup>th</sup> hole.

Notch lower end of angles.





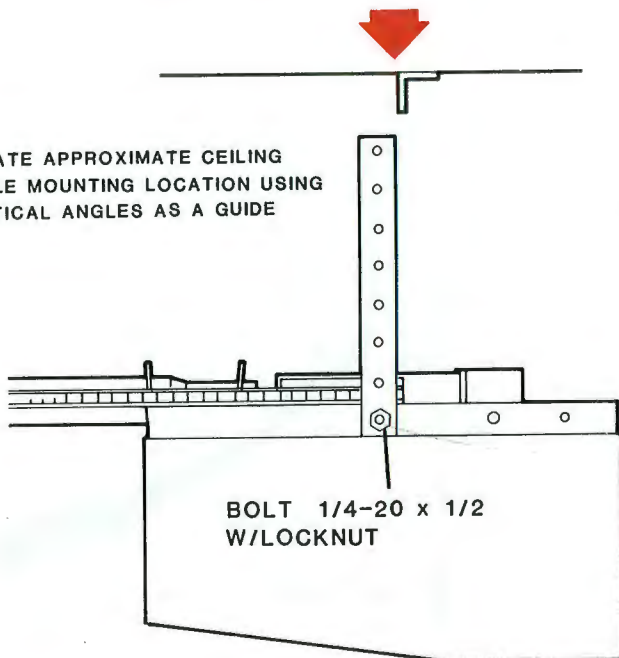
# INSTALLATION

**39**   $\frac{7}{16}$

Secure mounting angles to powerhead.

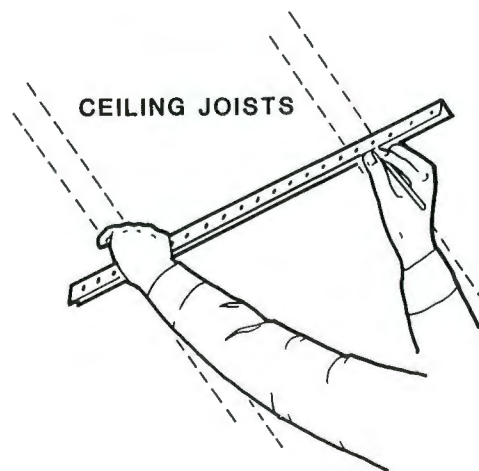
Locate ceiling joists.

LOCATE APPROXIMATE CEILING  
ANGLE MOUNTING LOCATION USING  
VERTICAL ANGLES AS A GUIDE



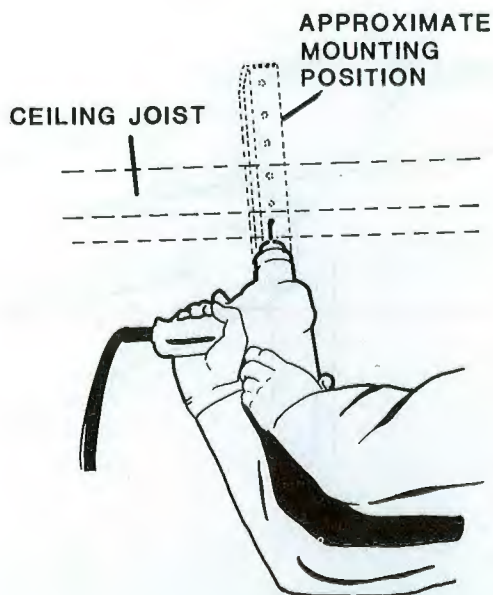
**40** 

Hold ceiling angle in mounting position  
and mark mounting hole locations using  
appropriate holes in angle as a guide.



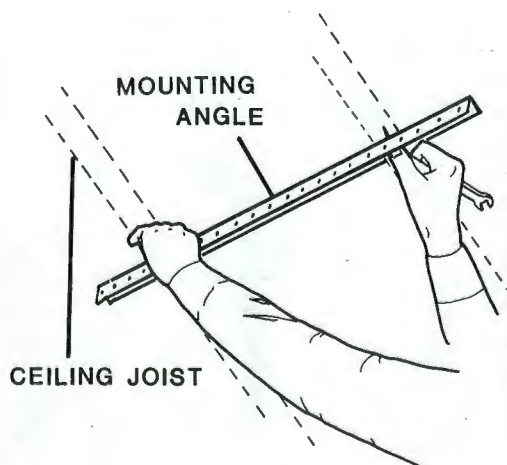
**41** 

Drill 5/32" diameter pilot holes through  
ceiling into ceiling joists at marked locations.



**42**   $\frac{7}{16}$

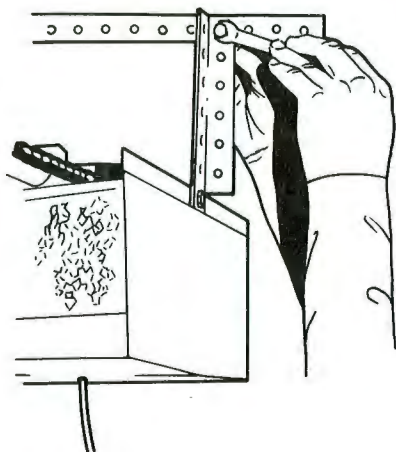
Secure ceiling angle to ceiling using  
1/4" x 1-3/4" Lag screws.



# INSTALLATION

43 

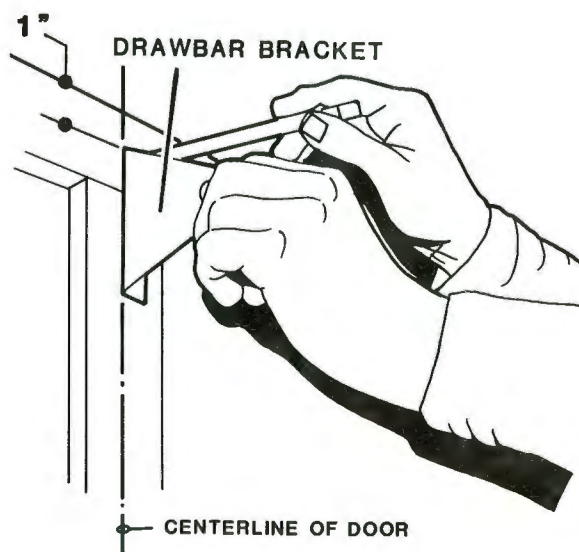
Secure hanging angles to ceiling angle  
tighten all bolts and nuts.



44 

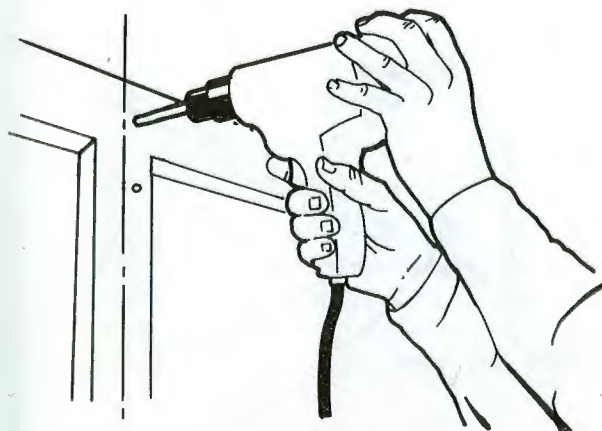
Hold drawbar bracket in mounting position  
with back of angle on center line of door.

Mark mounting hole locations.



45 

Drill 1/4" diameter holes through door  
at locations marked.

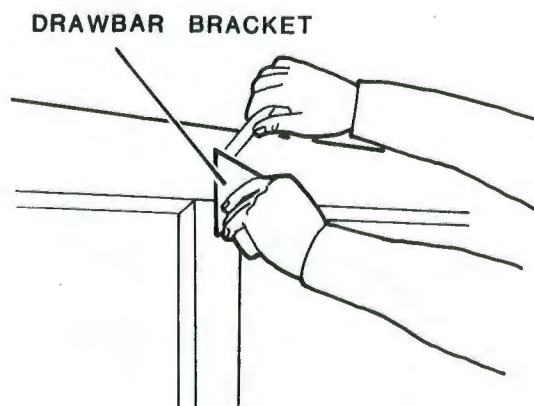


## NOTE

If necessary raise door to  
avoid drilling into header.

46 

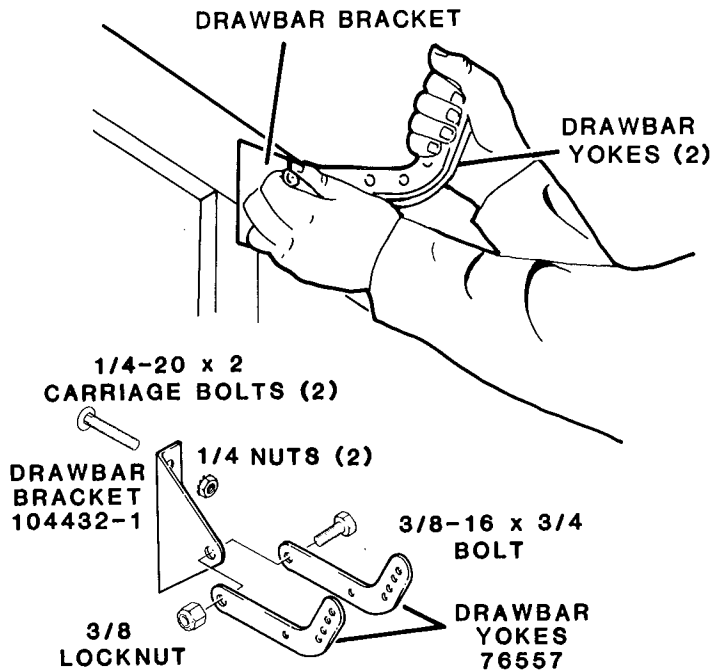
Secure drawbar bracket to door using  
1/4"-20 x 2" carriage bolts.



# INSTALLATION

## 47 $\frac{9}{16}$

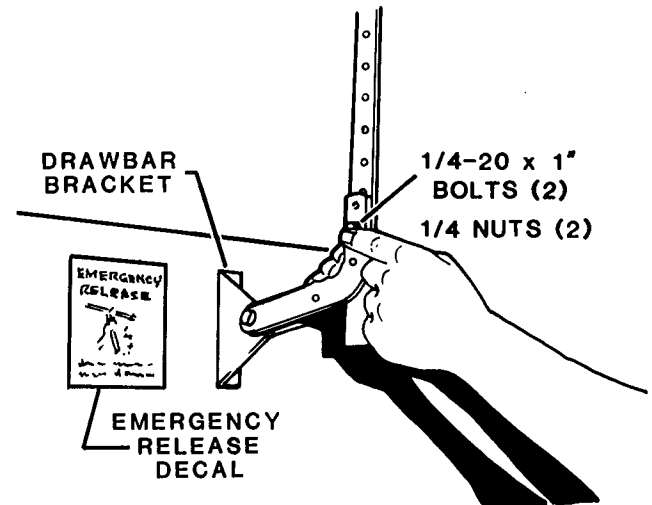
Attach yokes to drawbar bracket. Tighten locknut but do not compress yokes to bracket. Yokes must move freely.



## 48 $\frac{7}{16}$

With carriage against header-end limit switch dog, connect drawbar arm to carriage.

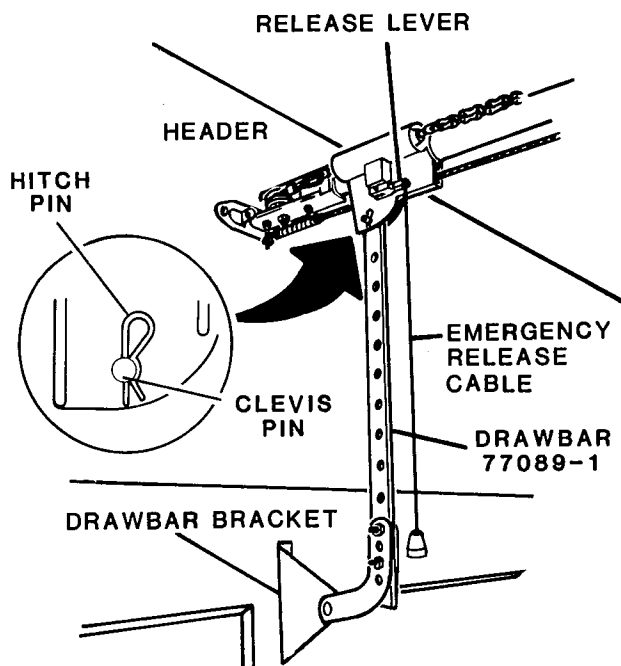
Align two (2) holes in drawbar arm with two holes in drawbar yokes and secure.



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

## 49

Route pull cord through release lever. Install pull knob on pull cord approximately six (6) feet from floor.



## 50

### CHECKLIST

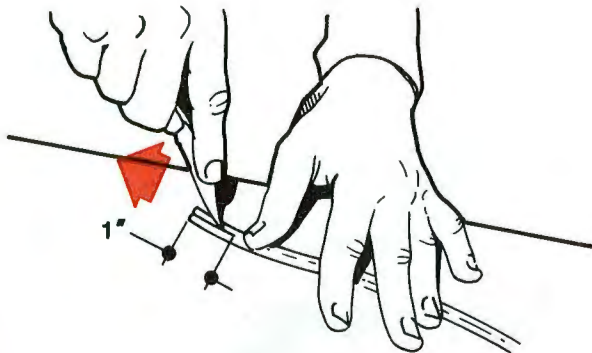
- ☐ Header bracket secure.
- ☐ Door bracket-yoke pivot bolt secure, but not too tight.
- ☐ Header pulley assembly pivot bolt secure but not too tight.
- ☐ Hanging bracket bolts tight.
- ☐ Drawbar to yoke bolts tight.
- ☐ Drive chain-cable is tight (tensioned correctly).
- ☐ Carriage engagement cylinder is engaged with carriage.



# WIRING

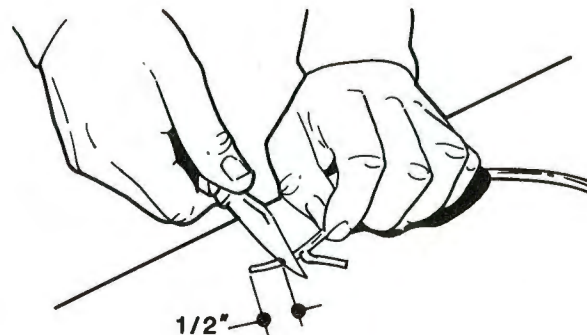
51 ☐

Separate end of push button wire.



52 ☐

Carefully cut insulation around wire.  
Do not cut wire.

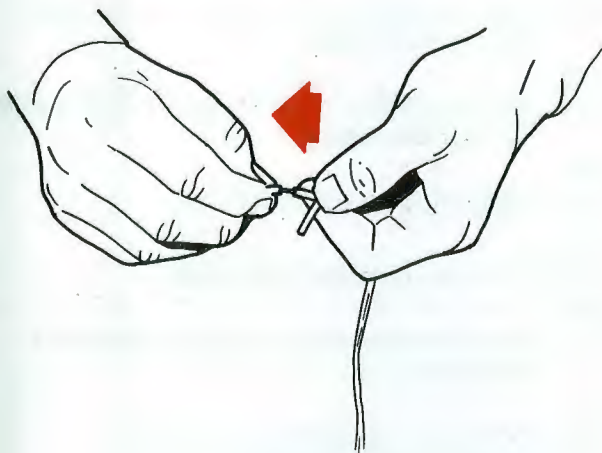


**NOTE**

This procedure is best performed  
by using wire strippers.

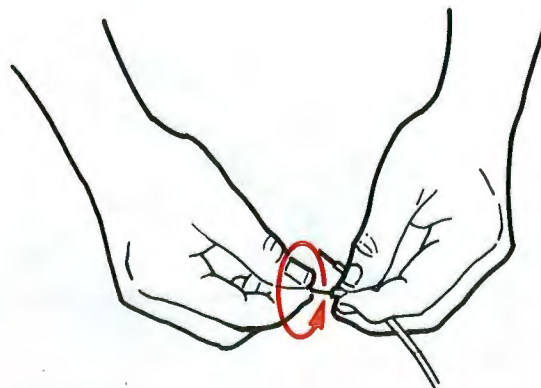
53 ☐

Remove insulation.



54 ☐

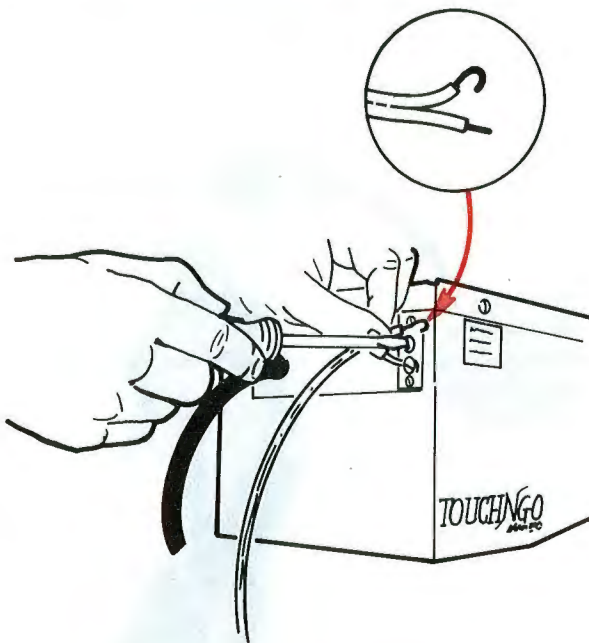
Twist ends of wire strands together.



# WIRING

## 55

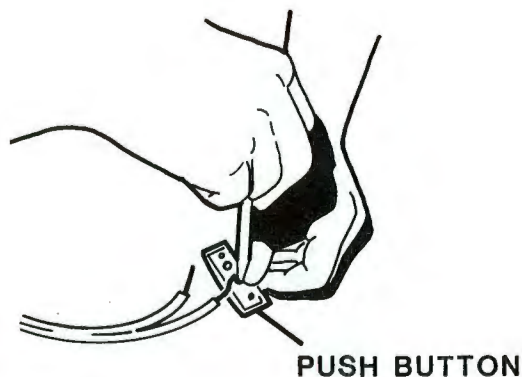
Shape wire leads like a hook, and connect leads to operator terminals.



## 56

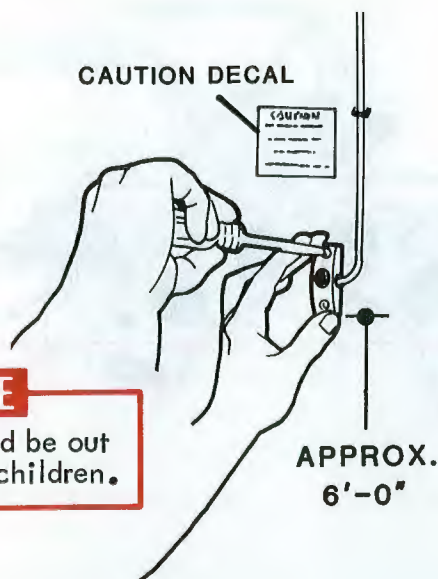
Route push button wire from powerhead along ceiling to house entrance door. Staple wire as necessary to prevent entanglement or contact with moving objects.

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



## 57

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



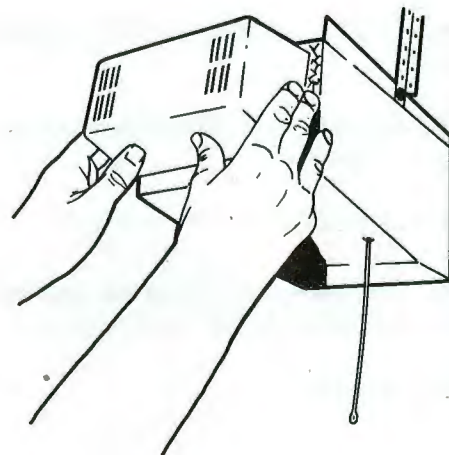
### NOTE

Button should be out of reach of children.

Peel backing off "PUSH BUTTON - CAUTION" decal and attach to wall near pushbutton.

## 58

Depress ends of light lens to install or remove lens.



### IMPORTANT

USE MAXIMUM 75 WATT BULB.

# WIRING

## 59 ☐

### WARNING

It is important that electrical power to operator be cut off when powerhead cover is removed. Electrical power must remain disconnected while making electrical connections and limit switch cable 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.

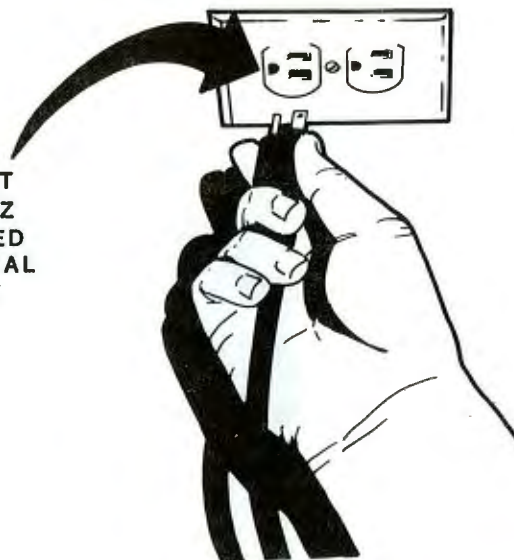
### CAUTION

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.

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

115 VOLT  
60 HERTZ  
GROUNDED  
ELECTRICAL  
OUTLET



## 60 ☐

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

Remove cover (4 screws).

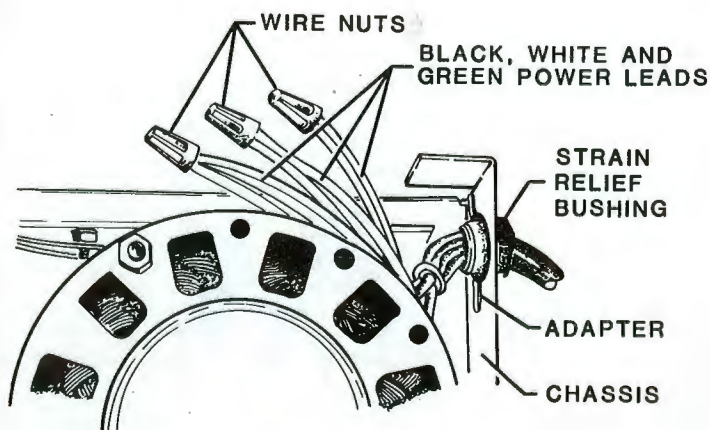
Remove and discard strain relief bushing and adapter.

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 & ADJUSTMENT

## 61

For transmitter operation and frequency code setting, see Instructions enclosed with operator.

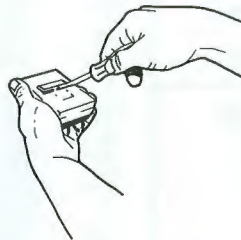
When operator is furnished with "TRINARY DIGITAL" radio controls, make sure Frequency Code Switches are set the same on operator circuit board as those in the transmitter.

The cover will have to be removed to set Frequency Code on operator circuit board.

### CAUTION

Make sure electrical power has been disconnected from operator before removing cover.

To set transmitter Frequency Code, remove snap out cover as shown.



## 62

TO START OPERATOR:

Press transmitter button	1 time
Press push button (within 3 seconds)	2 times

TO STOP OPERATOR:

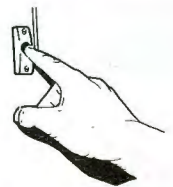
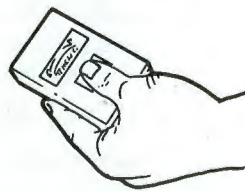
Press transmitter button	1 time
Press push button	1 time
(Operator will restart in opposite direction.)	

TO TURN LIGHT ON:

Press push button	1 time
(Light comes "ON" after short delay.)	

TO TURN LIGHT OFF:

Press push button	1 time
Door restarts in "OPEN" cycle after power failure.	



## 63

Both "UP" and "DOWN" sensitivity must be adjusted to insure proper operation of door. Adjustments must be made in 1/2-turn increments.

Turning adjusting screws...

- clockwise, allows door to travel.
- counter-clockwise, restricts door travel.

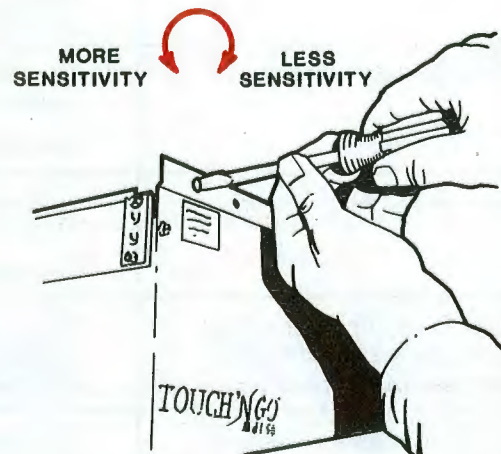
Door should open fully without stopping.

Door should close completely without reversing.

Door should reverse ONLY when it contacts an obstruction in "CLOSE" cycle.

Door should stop ONLY when it contacts an obstruction in "OPEN" cycle.

Test safety reverse by putting empty carton in doorway and start operator to close door. Door should not crush empty carton before reversing. Adjust as necessary.



## TROUBLE SHOOTING GUIDE

This trouble shooting guide is for you to compare the problem with the possible cause.

SYMPTOM	POSSIBLE CAUSE
Light cycles on and off every 3-4 seconds.	Short in wall pushbutton or push-button circuit.
Door starts down, runs 1 second and reverses.	*Open safety switch or safety switch circuit.
Door starts up, runs 1 second and stops.	*Open safety switch or safety switch circuit.
Door runs down, hits floor and reverses within 1/2 second.	Improper adjustment of down limit switch dog. Door limit switch dog slipping. *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 power-head.	Improper adjustment of up limit switch dog. Up limit switch dog slipping. *Limit switch defective. *Defective circuit board.
Door starts up, runs longer than 1 second, then stops.	Obstruction in doorway or roller pathway. *Hard operating or defective door. Improper adjustment of sensitivity control.
Door runs up, won't run down.	*Down limit switch or down limit switch circuitry open. *Defective circuit board.
Door runs down, won't run up.	*Up limit switch or up limit switch circuitry open. *Defective circuit board.
Door runs down, hits obstruction, does not reverse immediately, but reverses in 30 seconds.	*Defective safety switch, safety switch circuit, or safety switch mechanism.
Door will not open from radio or pushbutton.	Operator unplugged. *Defective radio receiver. *Defective circuit board. Motor overheated.
Motor runs, door will not open.	*Broken chain, chain-cable, drive sprocket, or drive gear.

\*Requires the assistance of a qualified repairman.

## PARTS LIST

1.	102152-1	Cover Assembly
2.	102147-1	Motor Support
3.	102142-1	Motor
4.	102137-1	Motor Mounting Angle
5.	102105-1	Motor Bracket
6.	102101-1	Safety Trigger
7.	104047-1	Circuit Board Mounting Bracket
8.	104036-1	Circuit Board Mounting Bracket
9.	104103-2	Circuit Board
10.	77543	Limit Switch
11.	77156 -1	Capacitor
12.	77452	Capacitor Clip
13.	102149-1	Limit Switch Arm
14.	102156-1	Tension Spring
15.	104089-1	Limit Switch Bracket Assembly
16.	604058-1	Terminal Strip
17.	104040-1	Sensitivity Switch
18.	80628 -1	Adapter
19.	76877-12	Strain Relief Bushing
20.	77085	Power Cord
21.	102145-1	Main Frame
22.	104050-1	Eyelet
23.	102102-1	Safety Trigger Retainer
24.	102087-1	Sensitivity Spring
25.	104086-1	Main Drive Gear Assembly
26.	102103-1	Chain Idler
27.	102106-1	Support Bracket
28.	102104-1	Motor Guard
29.	102151-1	Boom Bracket (3 piece)
	102151-2	Boom Bracket (1 piece)
30.	604067-1	Lampholder
31.	86168 -3	Nylon Snap Bushing
32.	102144-1	Cable Dog
33.	104059-1	Light Lens
34.	104039-1	Lampholder Bracket
35.	80813 -1	Wire, Bell Cord
36.	86147	Push Button

## PARTS AND SERVICE

For parts and service, contact the nearest Overhead Door Distributor.

When ordering parts, specify:

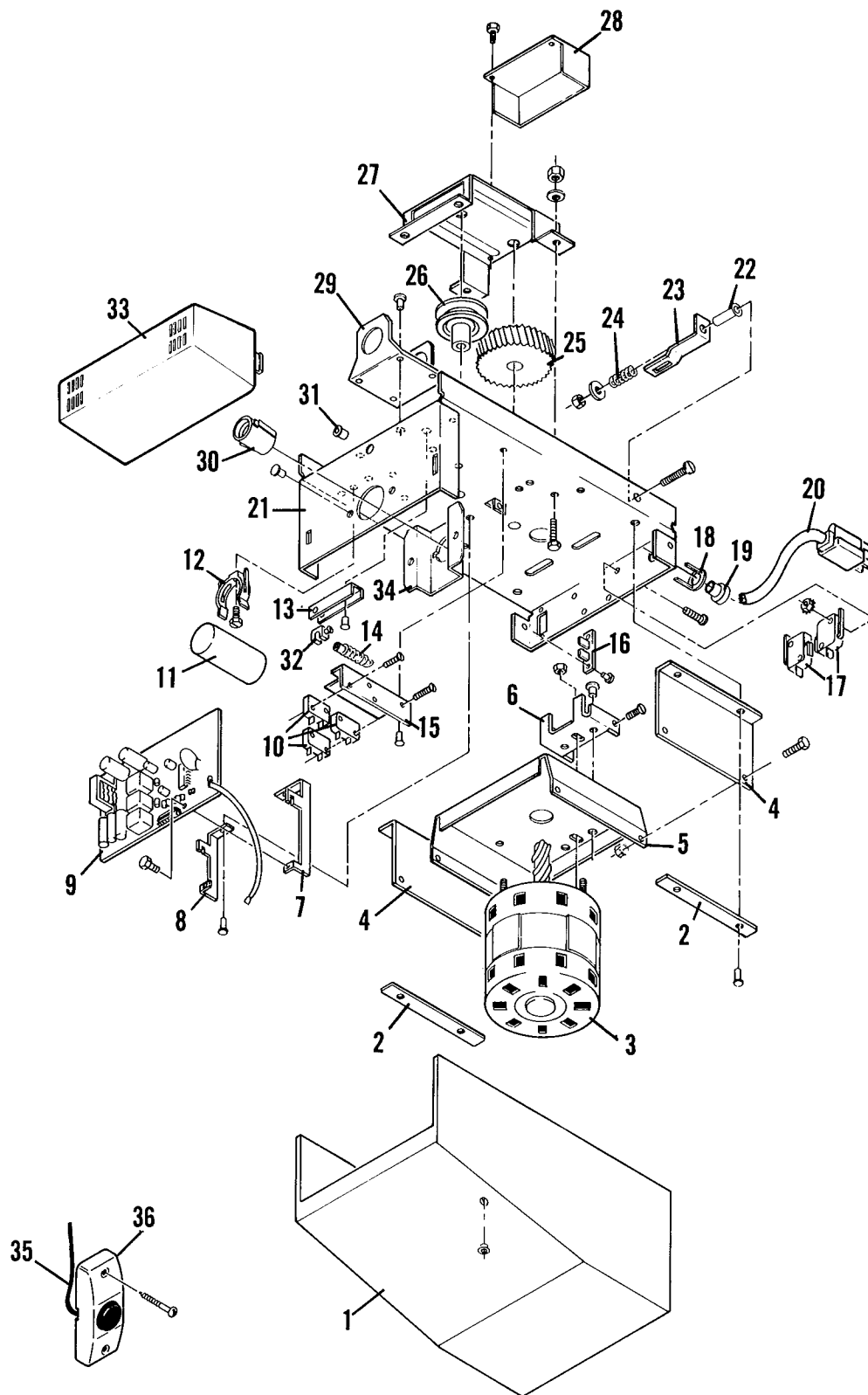
MODEL NUMBER

PART NUMBER

PART DESCRIPTION

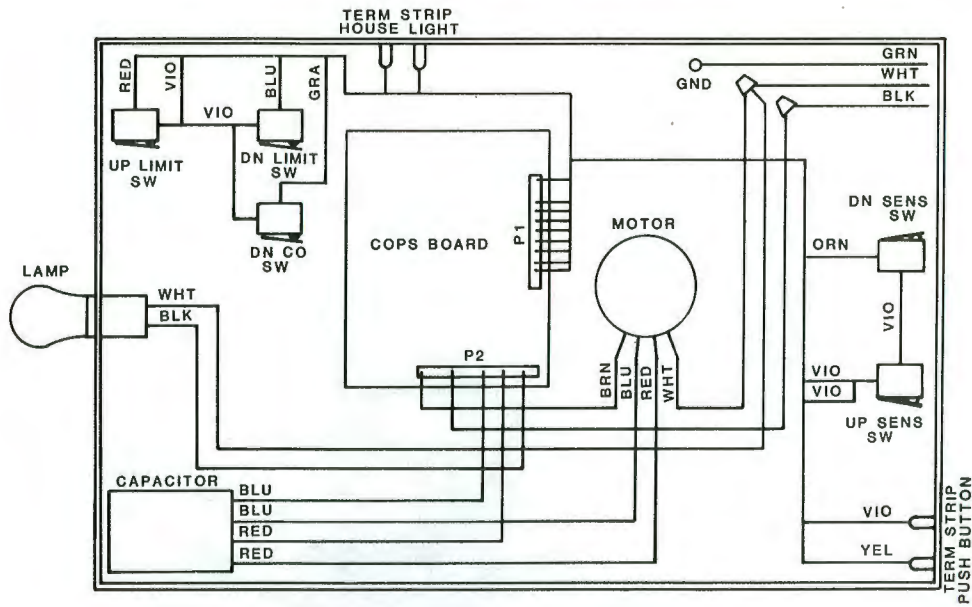
Repairs to transmitter and receiver should be performed by a qualified repairman. See Radio Control Instructions.

# ILLUSTRATED PARTS BREAKDOWN





# WIRING DIAGRAM



# WIRING SCHEMATIC

