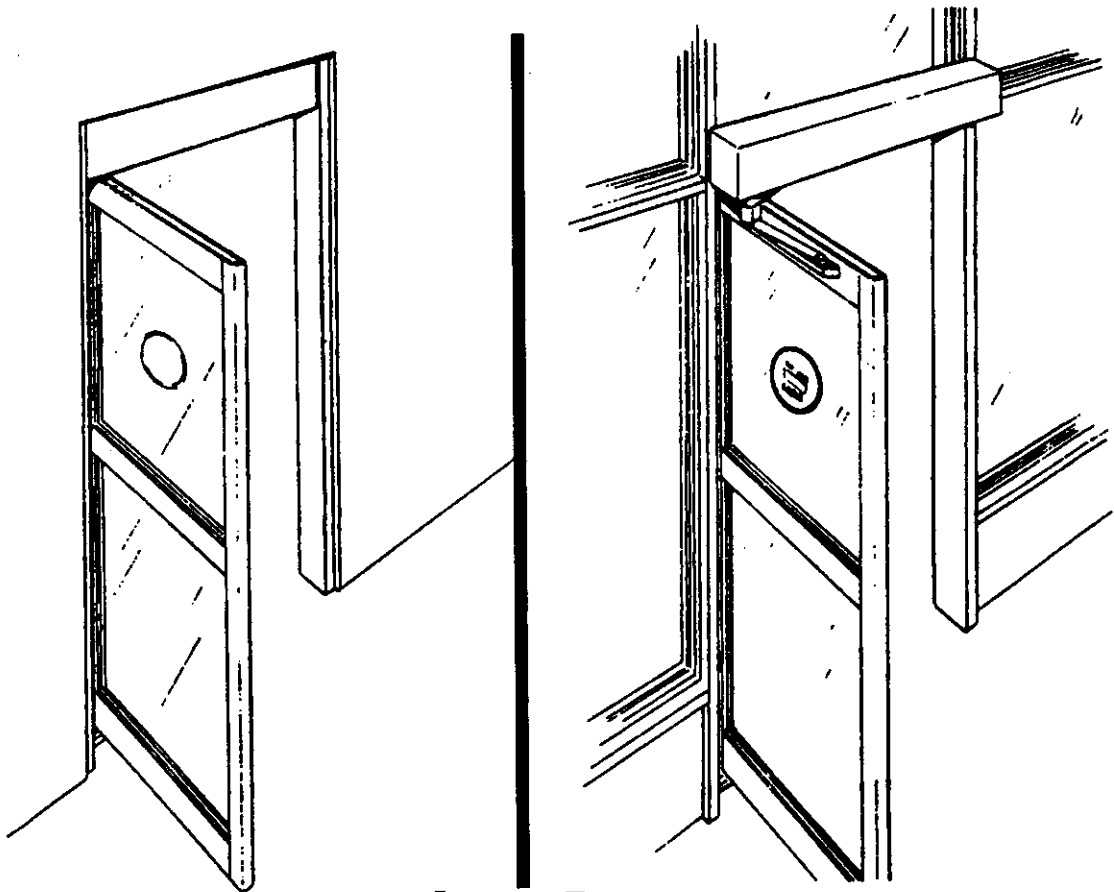


# MAGIC-ACCESS™



*Swing Door*

## *Installation and Tune-In*

## *Manual*

# GENERAL INFORMATION

POWER REQUIRED—117 V.A.C. 15 AMP. SERVICE FOR 1-2 OPERATORS  
DEDICATED 20 AMP. SERVICE FOR 3-4 OPERATORS

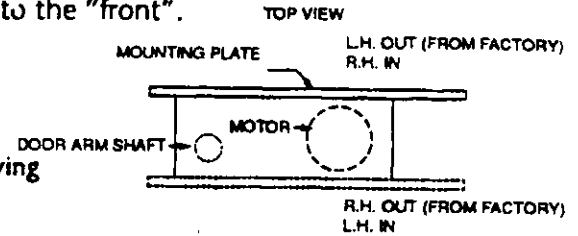
## IN OR OUT

This operator mounting is designed symmetrically which enables the operator to be changed from an out to an in type by moving the mounting plate from the "back" of the operator to the "front".

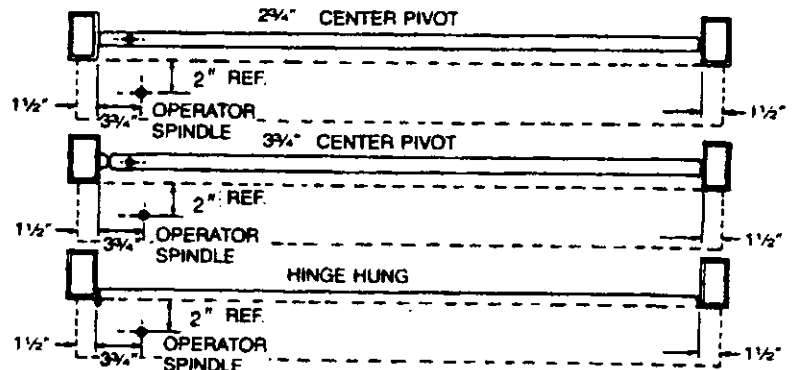
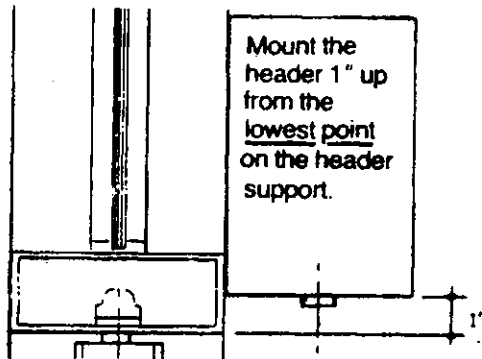
NOTE: THIS DOES NOT CHANGE THE HAND OF THE OPERATOR.

## POWER CLOSE ACCESSORY BOARD #313150

This accessory will supplement the closing spring holding force by applying a small reverse voltage to the motor when the door is closed.



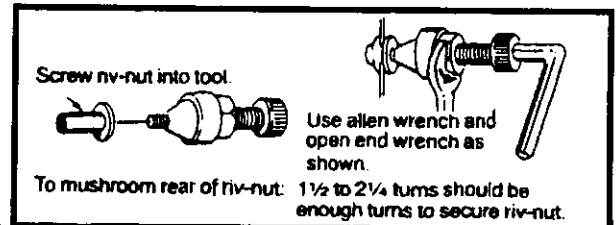
## VISIBLE



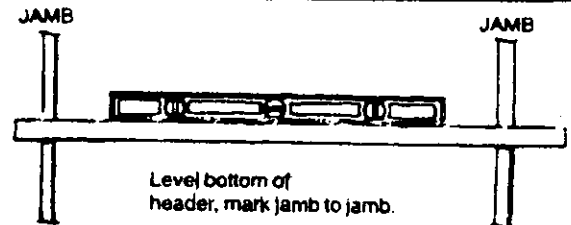
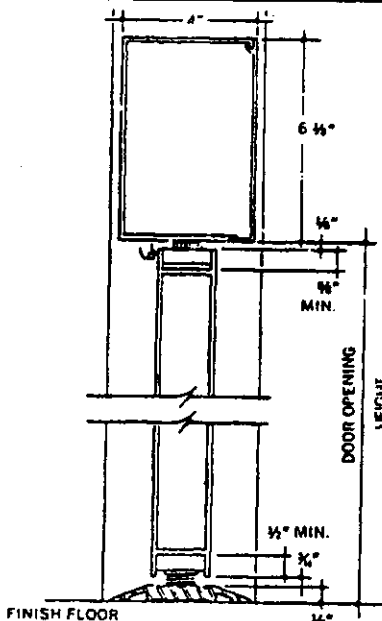
FOR ALL TYPES OF DOOR APPLICATIONS THE HEADER MUST MEASURE 3" LARGER THAN THE DOOR OPENING WIDTH. THIS PROVIDES 1 1/2" OVERLAP ON BOTH JAMBS WHICH IS USED FOR MOUNTING.

## USE OF RIV-NUTS

1. Locate mounting holes using the header template.
2. Drill (4) holes with Q drill and insert riv-nuts.
3. Secure header to jamb with 1/4-20 screws provided.

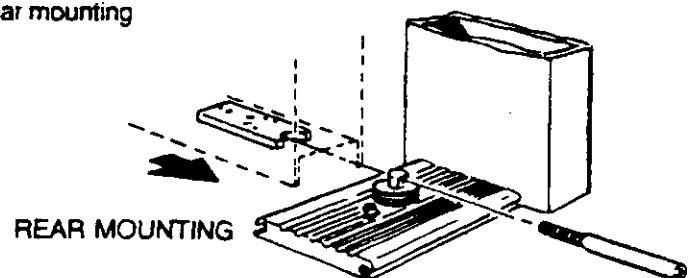


## IN-HEADER

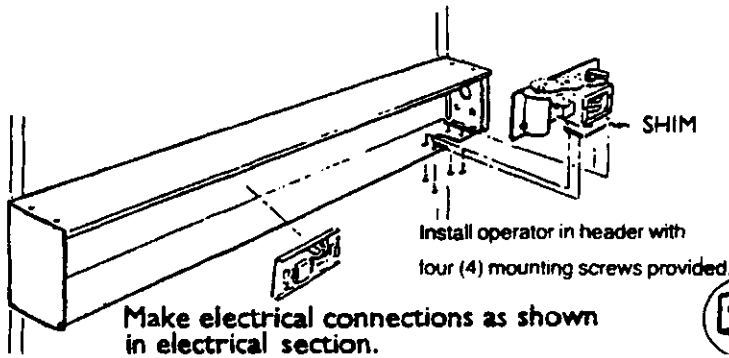


NOTE: Header must be level for proper operation of door

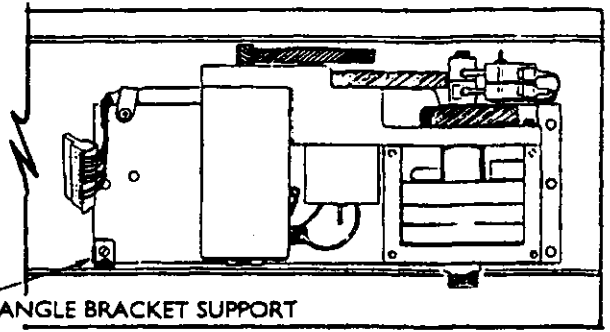
Door must have min. 5/8" top web. 1/2" min. bottom web.  
Door must be rear mounting



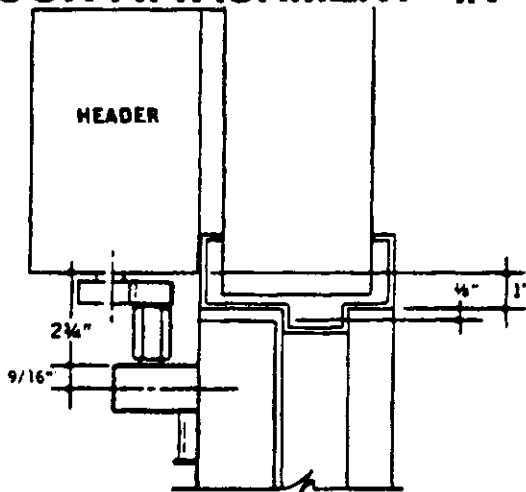
# OPERATOR INSTALLATION • VISIBLE



ANGLE BRACKET SUPPORT

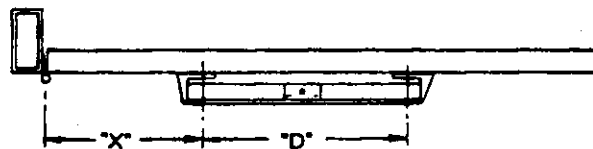


## DOOR ATTACHMENT • IN



### IN DOOR ATTACHMENT (NO BREAKOUT)

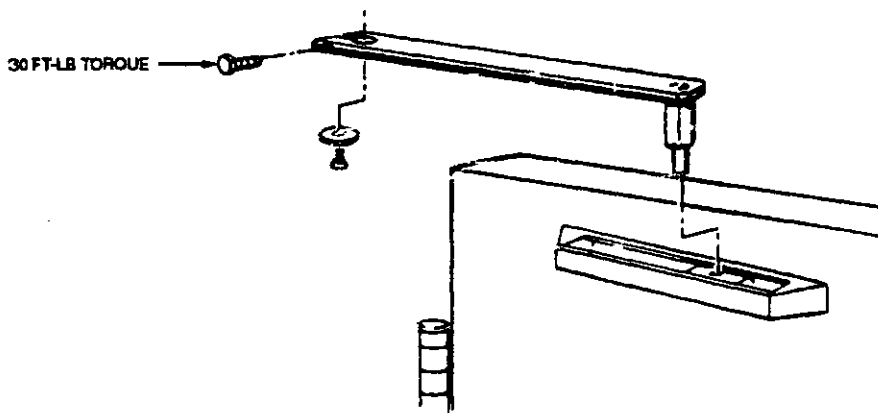
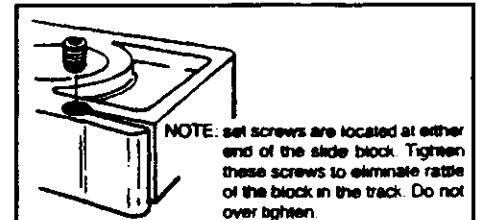
PIVOT TYPE	REVEAL	"D" DIM	"X" DIM	TRACK LENGTH
BUTT HUNG	0	13-1/4	9	15-3/8
OFFSET PIVOT	0	13-1/4	9	15-3/8



1. Jump the signal terminals. Turn power on.
2. The operator spindle will rotate to the full open position.

## MOUNT SLIDE TRACK

1. Locate mounting holes, refer to proper chart.
2. Secure end brackets with wood screws.
3. Insert slide block.
4. Snap track into end blocks as shown. Secure in place with 5/16-18 screws provided.
5. Place door arm pivot pin into slide block.
6. With the door in the 90° position, attach door arm to operator as shown.

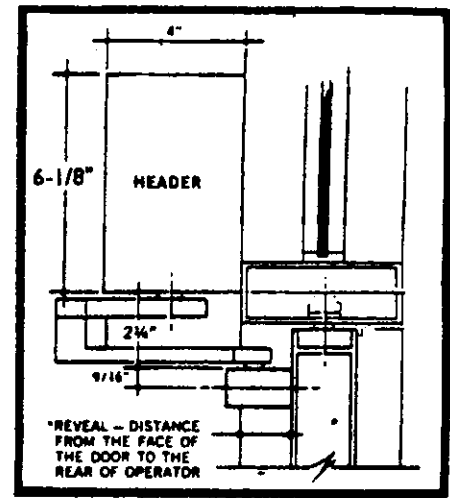


# DOOR ATTACHMENT • IN

## CONTINUED

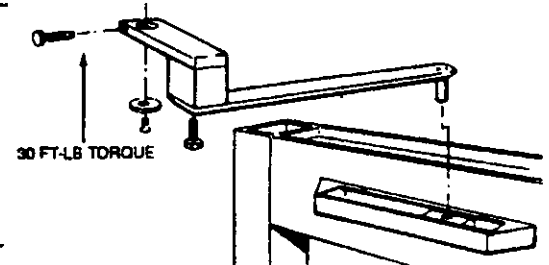
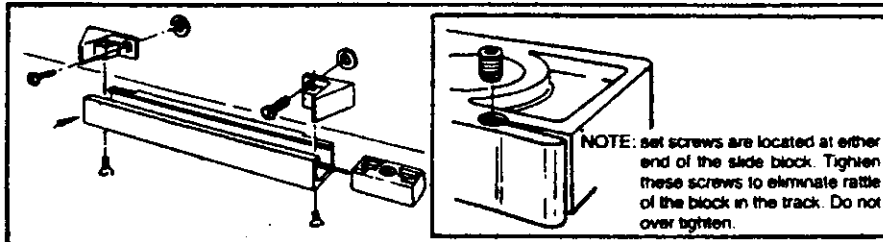
IN DOOR ATTACHMENT (NO BREAKOUT)				
PIVOT TYPE	REVEAL	"D" DIM	"X" DIM	TRACK LENGTH
2-3/4 CTR PIVOT	0 - 4	13-1/4	10-1/2	15-3/8
3-3/4 CTR PIVOT	0 - 4	13-1/4	11	15-3/8

IN DOOR ATTACHMENT (WITH BREAKOUT)				
PIVOT TYPE	REVEAL	"D" DIM	"X" DIM	TRACK LENGTH
2-3/4 CTR PIVOT	0 - 4	20-7/8	6-1/2	23
3-3/4 CTR PIVOT	0 - 4	20-7/8	7-1/2	23



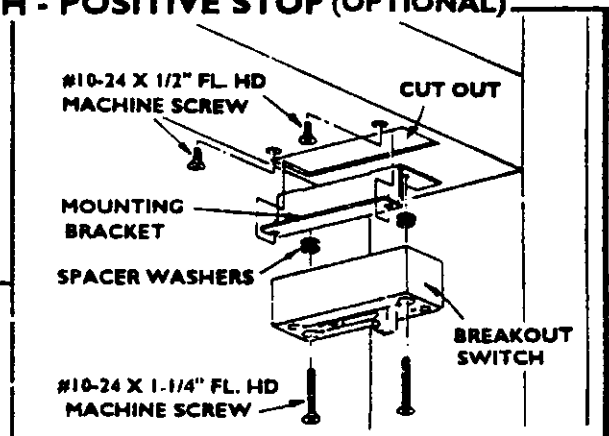
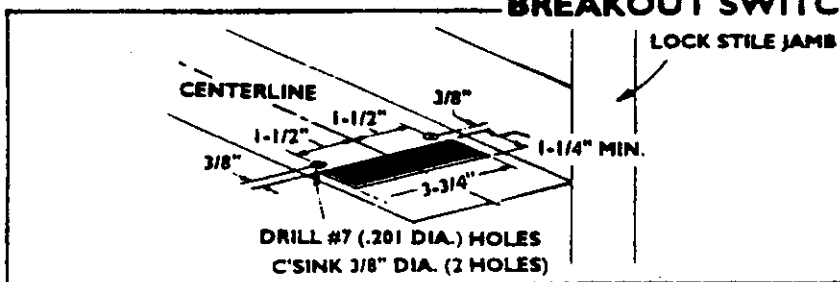
## MOUNT SLIDE TRACK

1. Turn power on. Jump the signal terminals. 2. The operator spindle will rotate to the full open position.

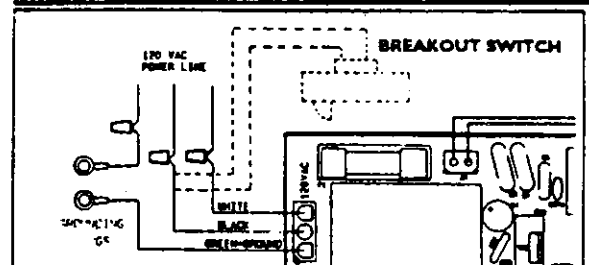


1. Locate mounting holes refer to proper chart.
2. Center punch and drill .332 DIA. holes (Q Drill) for riv-nuts.
3. Install riv-nuts as previously shown.
4. Secure end brackets with 1/4-20 screws provided.
5. Insert slide block.
6. Snap track into end blocks as shown. Secure in place with 5/16-18 screws provided.
7. Place door arm pivot pin into slide block.

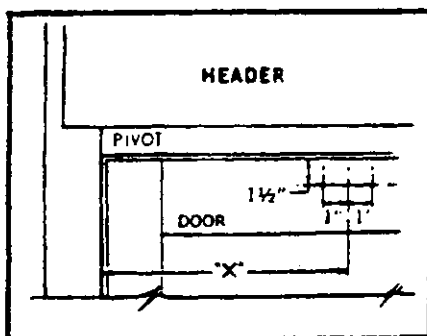
## BREAKOUT SWITCH - POSITIVE STOP (OPTIONAL)



1. PREPARE HEADER TO INSTALL BREAKOUT SWITCH - STOP.
2. INSTALL MOUNTING BRACKET.
3. INSTALL SWITCH - STOP AND WIRE AS SHOWN.

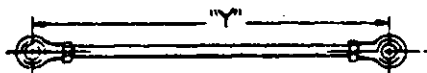


# DOOR ATTACHMENT • OUT

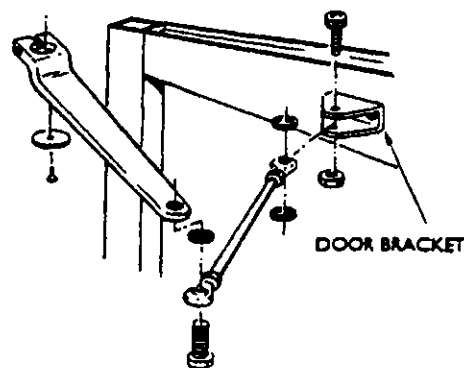


REVEAL	2-3/4" / 3-3/4" CENTER PIVOT DIMENSION "X"	BUTT HUNG / OFFSET PIVOT DIMENSION "X"
0	16"	16"
1/2	16"	16"
1	16"	16"
1-1/2	16"	16"
2	17"	16"
2-1/2	17"	16-1/2"
3	18"	16-1/2"
3-1/2	18"	16-1/2"
4	19"	17"

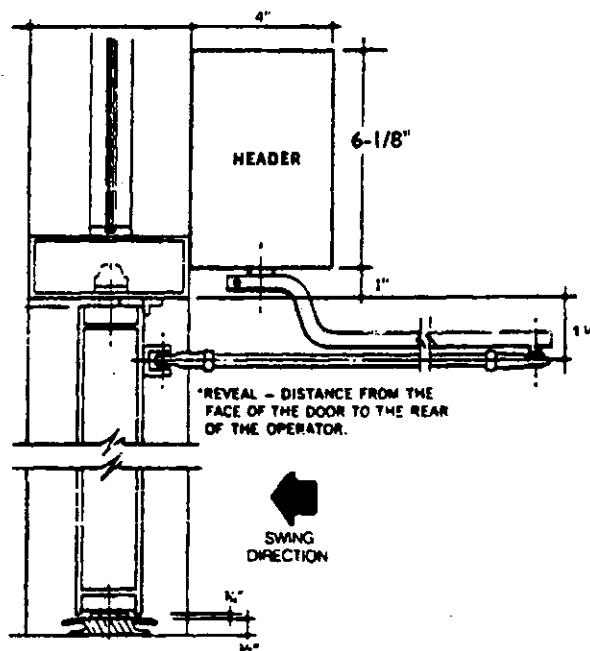
Locate centerline of bracket on door (Use chart) The door must have a positive stop in the closed position.



REVEAL	2-3/4" / 3-3/4" CENTER PIVOT DIMENSION "Y"	BUTT HUNG / OFFSET PIVOT DIMENSION "Y"
0	16-1/2"	17-1/8"
1/2	16-7/8"	17-1/2"
1	17-1/4"	17-3/4"
1-1/2	17-3/4"	18-1/4"
2	18-3/4"	18-3/4"
2-1/2	19"	19-1/4"
3	20"	19-3/4"
3-1/2	20-1/2"	20-1/4"
4	21-1/2"	20-3/4"

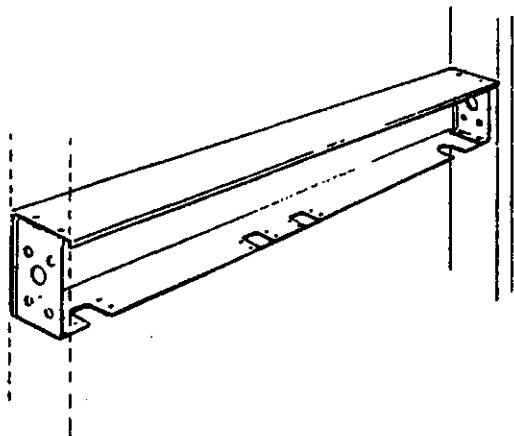


1. Turn power on. Jump the signal terminals.
2. The operator spindle will rotate to the full open position.
3. With the door in the 90° position, attach door arm to operator as shown.



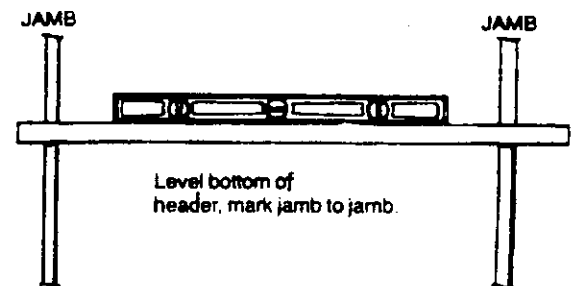
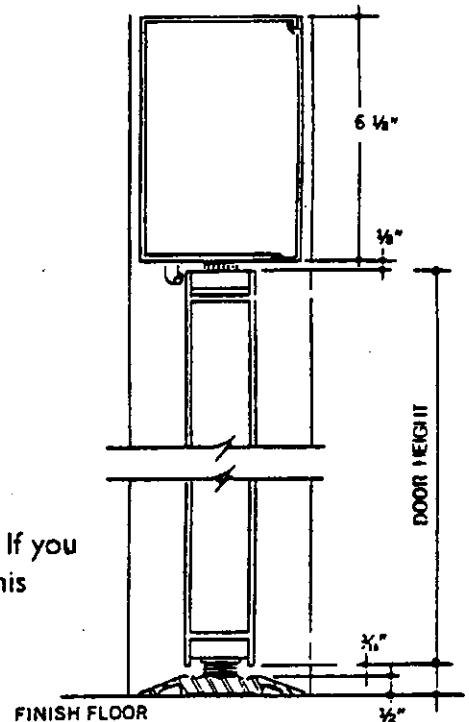
OUT

# HEADER INSTALLATION • IN-HEADER



**NOTE:** Holes and riv-nuts are prelocated and installed on some jambs. If you must locate mounting hole, use the template found on the last page of this instruction booklet and proceed as follows:

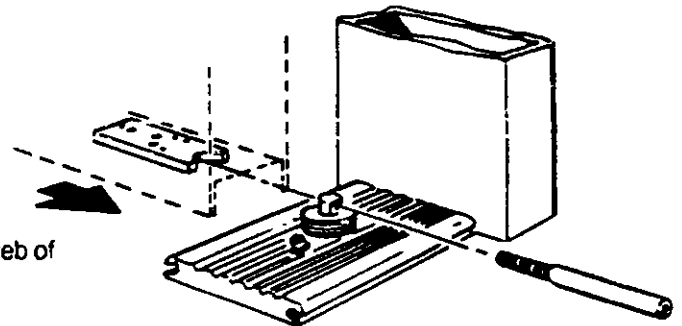
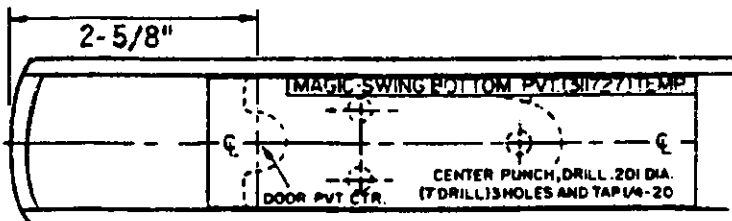
1. Locate bottom of header on jambs. Jambs must be vertical and parallel. Bottom of header is determined by adding bottom door clearance, door height plus clearance. Level bottom of header to this mark.
2. Center the template on the jamb. Punch holes on jamb through template (tape template in place). Locate holes on other jamb.
3. Drill holes in jamb for riv-nuts. Note the 1" hole is drilled in the jamb opposite the pivot.



**NOTE:** Header must be level for proper operation of door.

## IN-HEADER DOOR PREPARATION

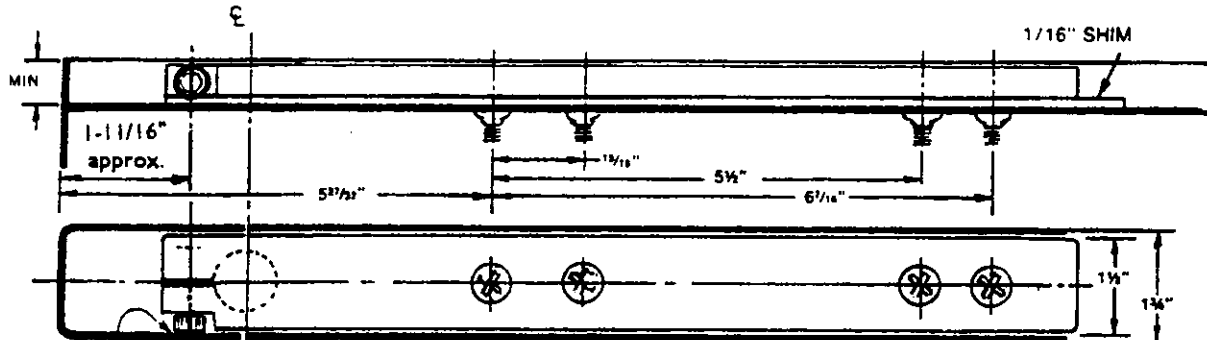
### MOUNT BOTTOM PIVOT AND THRESHOLD



1. Remove backing from bottom pivot template. Apply to bottom web of door as shown.
2. Template door pivot, must be located on door properly.
3. Drill and tap 3 holes for 1/4-20 screws provided.
4. Position threshold centerline on centerline of jamb. Centerline of pivot must be 3 3/4" away from jamb. Mark screw holes, drill and fasten to floor.

# IN-HEADER DOOR PREPARATION

DETAIL OF TOP DOOR ARM



NOTE: You may decide to drill a 1/2" dia. access hole through the door to tighten or loosen the door arm screw.

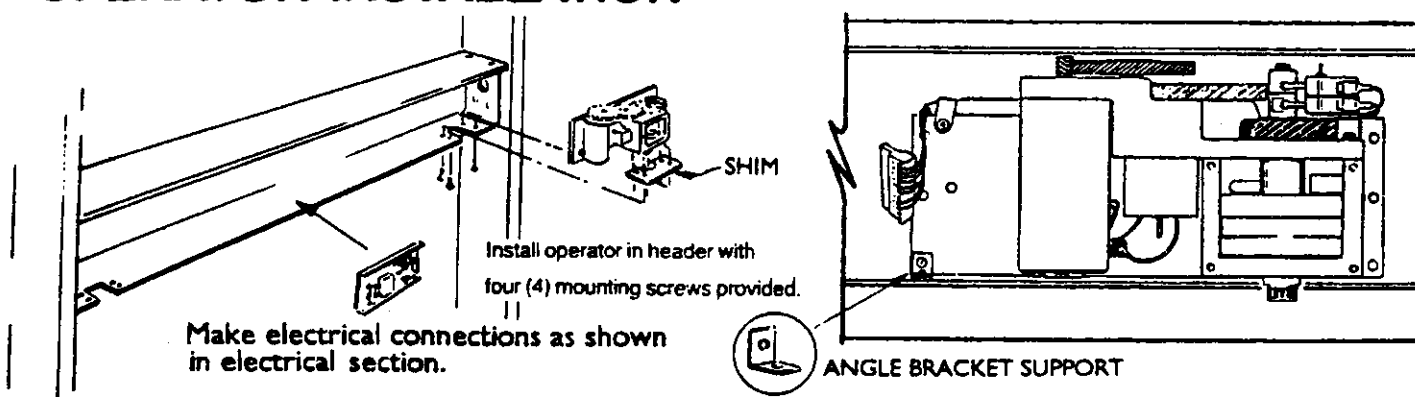
1. Drill (4) .332 dia. ("Q" drill) holes previously located.
2. Insert the 1/4-20 steel riv-nuts provided. Make sure they are properly seated.

**WARNING** - DO NOT SUBSTITUTE ALUMINUM RIV-NUTS.

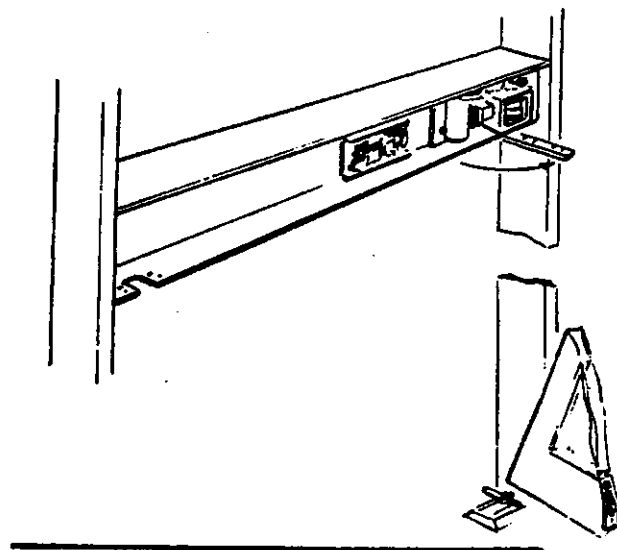
NOTE: A) Long riv-nut for 1/4" thick top web. B) Short riv-nut for 1/8" thick top web.

DO NOT INSTALL DOOR ARM AT THIS TIME.

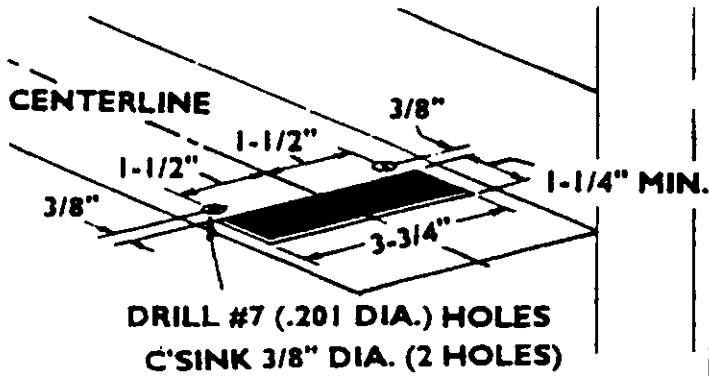
## OPERATOR INSTALLATION



1. Turn power on. Jump the signal terminals.
2. The operator spindle will rotate to the full open position.
3. Secure the door arm to the operator spindle in the 90° position.
4. Place the heel of the door on the bottom pivot.
5. Straighten the door into position under the door arm previously attached to the operator.
6. Slide the 1/16" shim plate into position over the riv-nut heads.
7. Secure the door arm to the top of the door with the fasteners supplied.
8. Check to make sure the shim is in the proper position.
9. Tighten all screws.
10. Install the positive stop or breakout stop at this time.

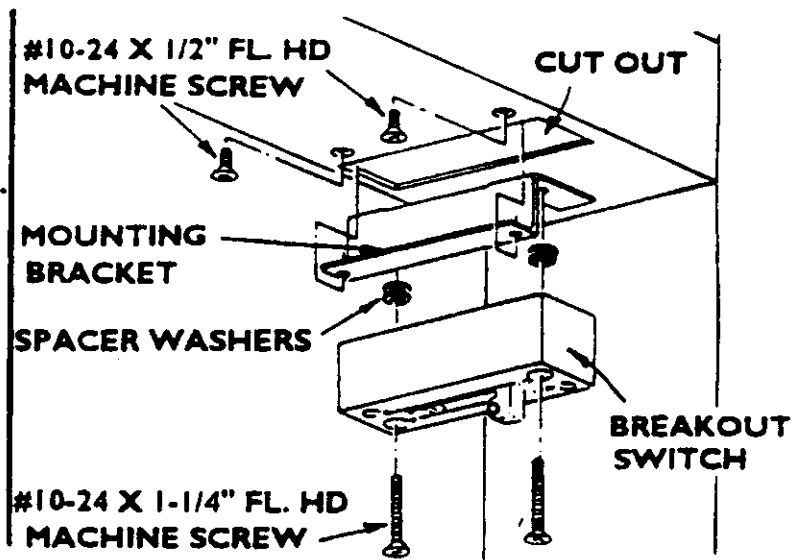


## VISIBLE



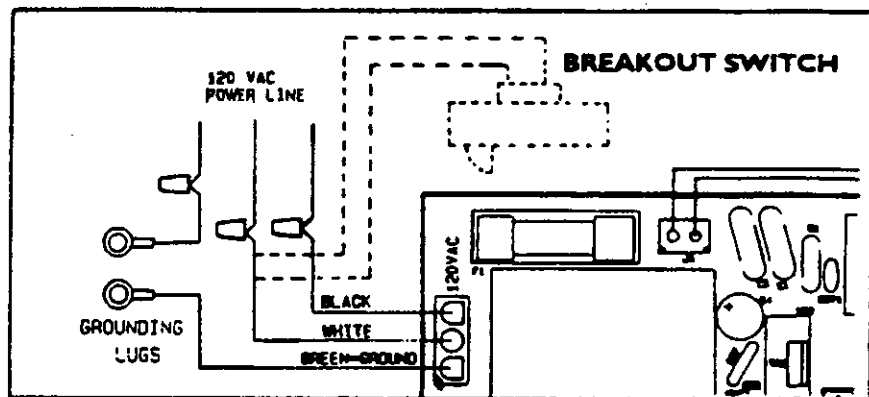
1. Install mounting bracket as shown.
2. If breakout switch is installed, wire as shown.

## BREAKOUT SWITCH - POSITIVE STOP (OPTIONAL)

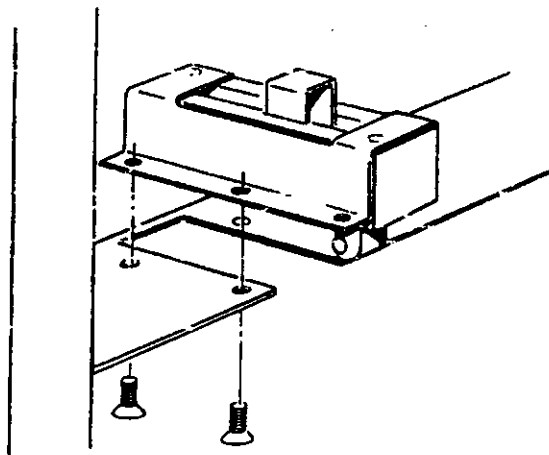


## IN-HEADER

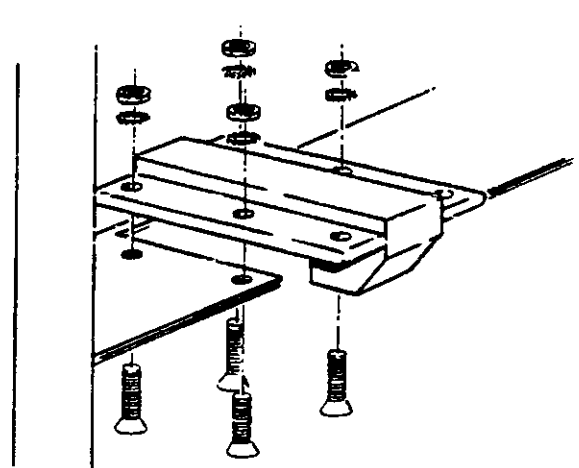
1. Install mounting bracket or one-piece positive stop as shown.
2. If breakout switch is installed, wire as shown.



## BREAKOUT SWITCH

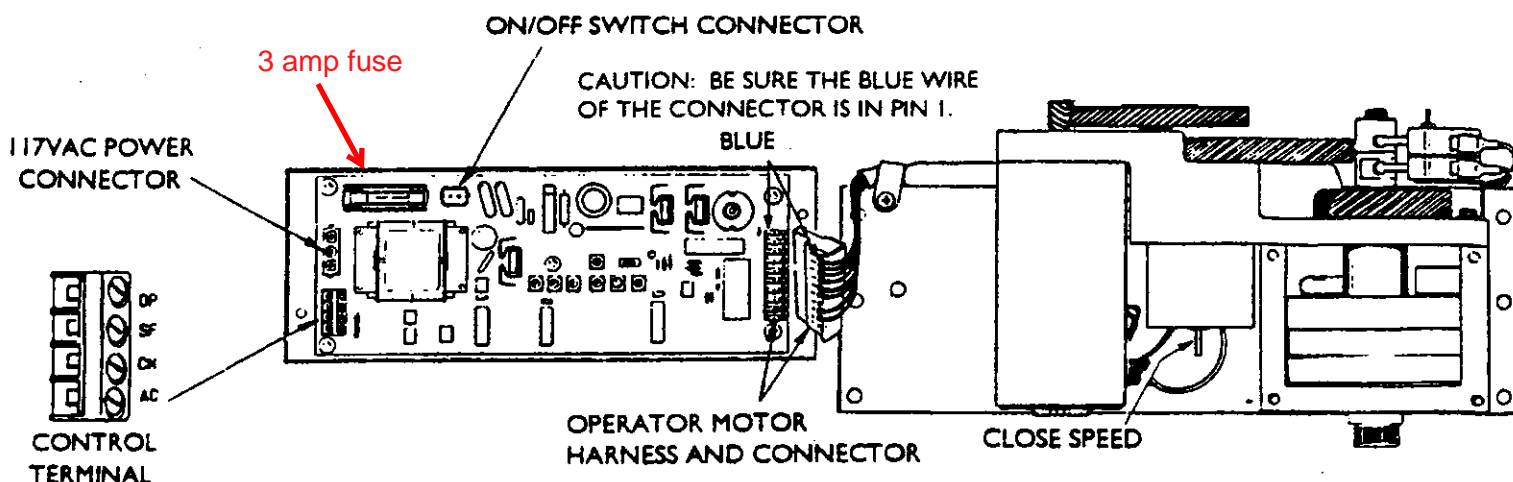


## POSITIVE STOP



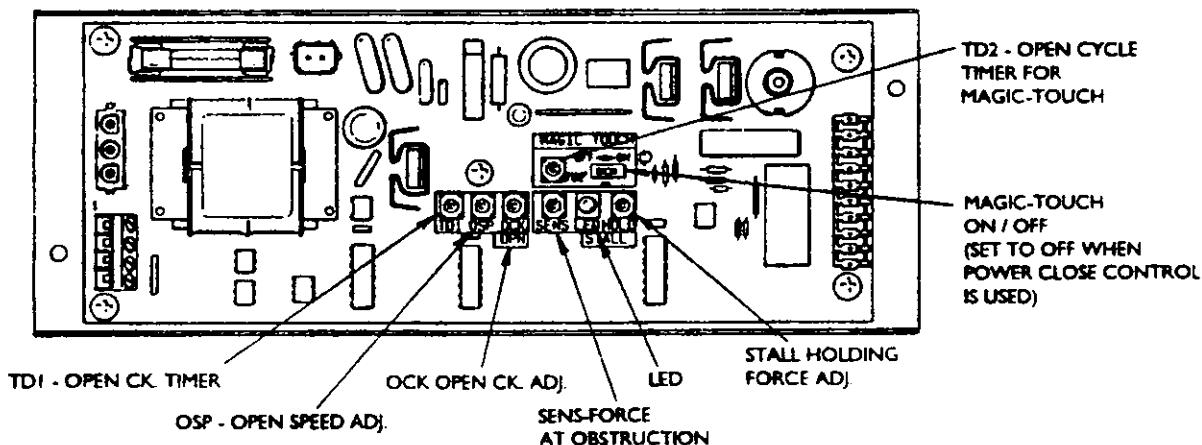


# ELECTRICAL CAUTION: TURN POWER OFF BEFORE MAKING ADJUSTMENTS



- 1) Connect power to the 3-pin connector provided.  
**IMPORTANT:** Install grounding lugs to header with screws and lock washers provided. See wiring schematic on back cover.  
 Plug connector to control board as shown.
- 2) Install on-off switch in end cap (away from spindle end of operator). Screw switch into end cap and attach connector to circuit board.
- 3) Attach activating control to board.
  - a) For push button, push plate, mat or radio control, attach to terminals 1 & 3.
  - b) For radio control power 24VAC, attach to terminals 3 & 4.

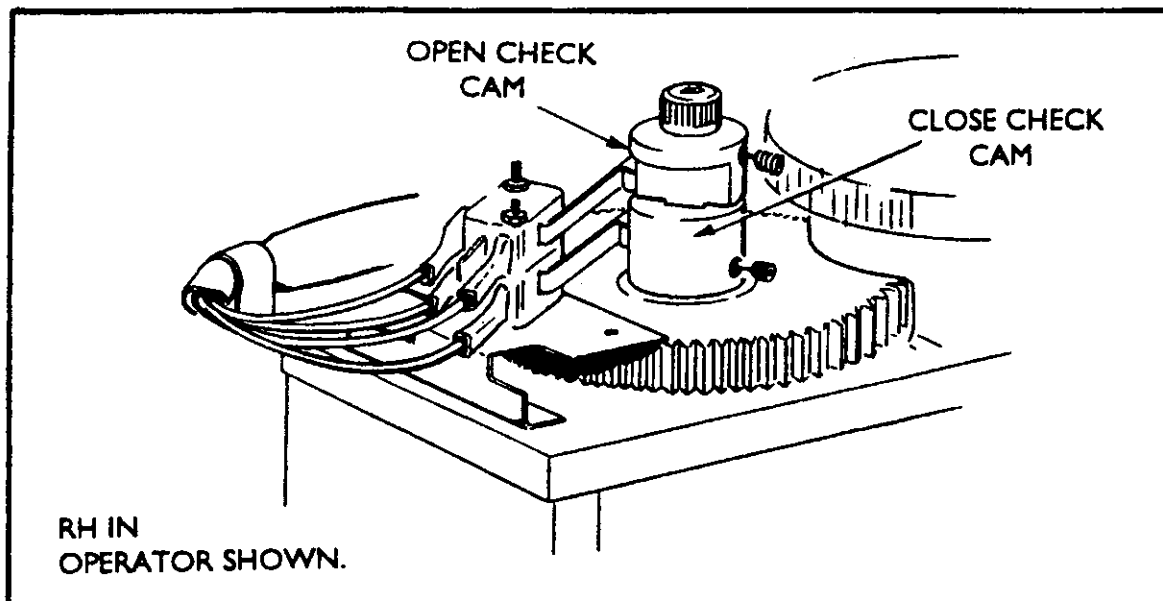
## INE-IN and ADJUSTMENT



- 1) Set stall hold, open speed and open check to mid-range.
- 2) Set close speed to mid-range (see above for location).
- 3) Operate Door - adjust opening and closing speed controls to a minimum travel time of 3 seconds for the first 75° of travel. Adjust the open check speed for both stop.
- 4) Adjust operator timer as required TD1 4-30 sec. (Time from operate signal to full open to full close.)
- 5) Set motor torque to hold the door open against closing spring.
  - a) Maintain operate signal for approximately 15 seconds. The stall LED will turn on. Hold control is now active.
- 6) Adjust the reversal response when the door meets an obstruction. Turn the sens control clockwise until the door reverses momentarily after hitting the obstruction.
- 7) Magic-Touch - Set the S2 switch to the on position. Set the opening cycle timer by adjusting TD2 (1.5 - 10 seconds).

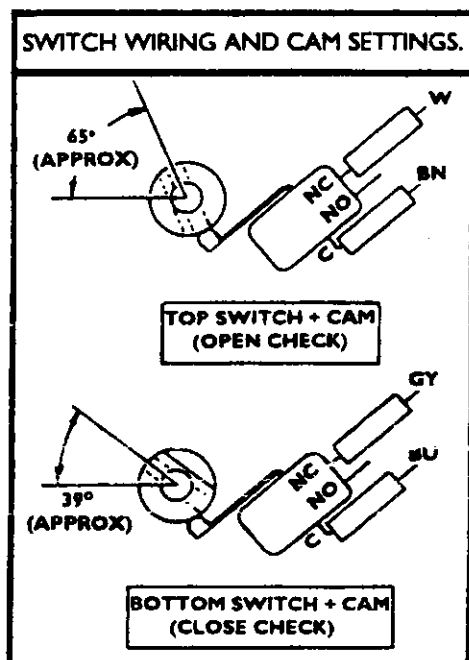
### TURN ON POWER.

# ADJUSTMENT

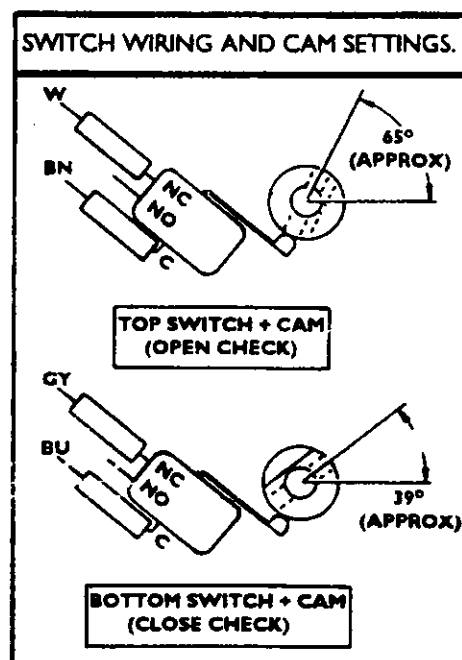


Adjust open check and close check cams as shown.

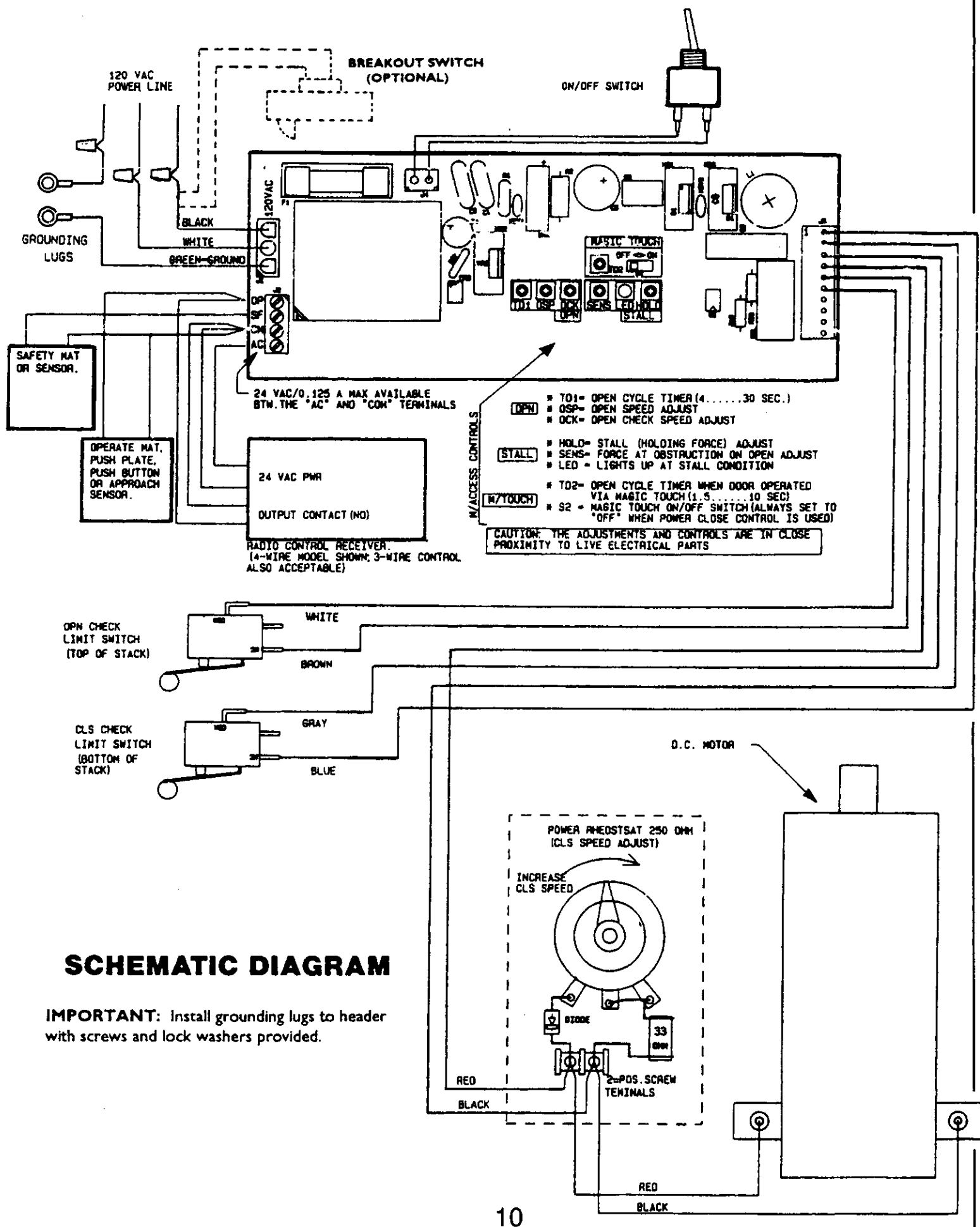
1. Loosen set screw and rotate cam until check area is in proper location.
2. After adjustment has been made, secure cams with set screws.

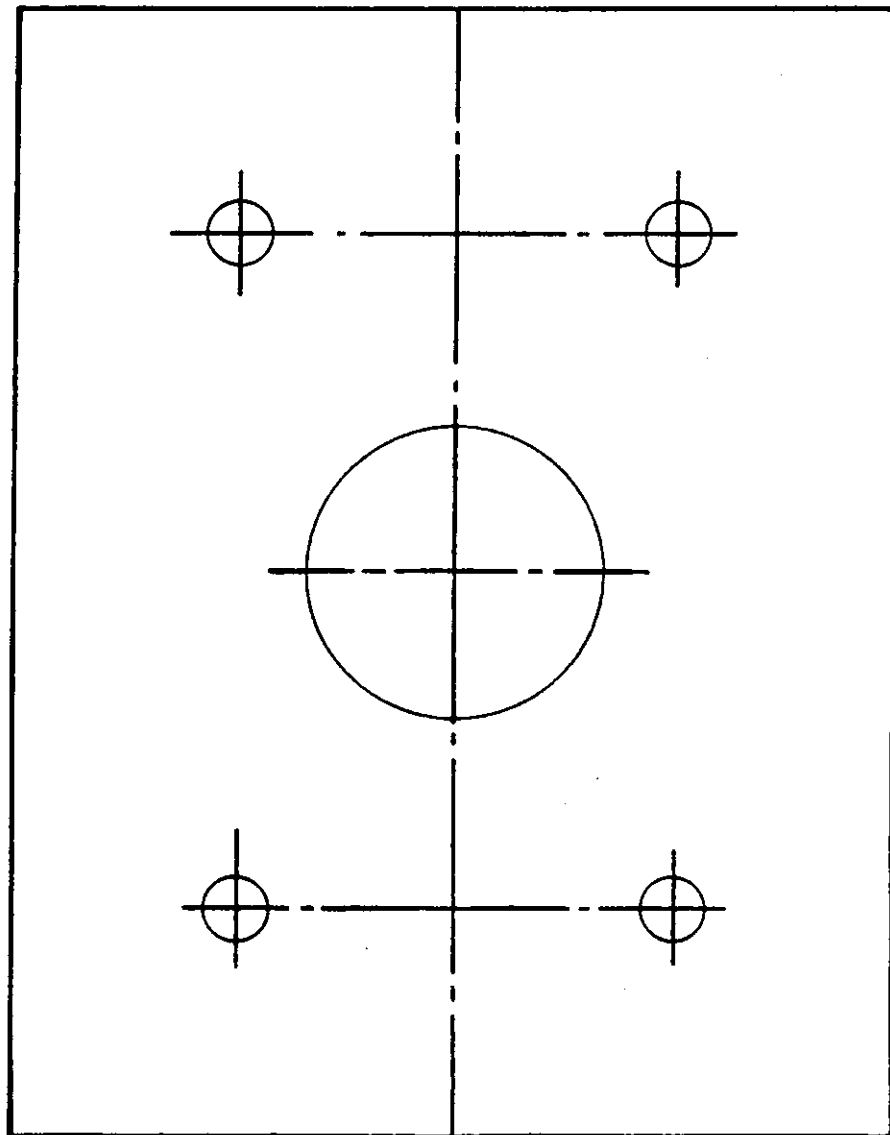


RH OUT  
SHOWN



LH OUT  
SHOWN





**END BRACKET TEMPLATE**

57410-082001