

## CONNECTING TO POWER SUPPLY

Consult local electrical codes before proceeding with permanent installation.

**WARNING:** Exercise caution when operating machine. The drive chain and limit drive chain are exposed; and, when turning, could cause injury. Wiring diagrams can be found inside electrical enclosure cover. Connect operator to properly grounded supply (green colored slotted head screw is supplied in control box), and install control stations as required.

**NOTE:** THIS UNIT MUST BE PROPERLY GROUNDED.

On three-phase units, make certain that operator rotates in correct direction, slides toward power head to open. If direction is wrong, limit switches will not function, and damage will occur. It is recommended that the door be moved manually to a mid-position before turning on power, so that it may be stopped before damage occurs, if rotation is incorrect. If direction is wrong, reverse any two of the three incoming power supply leads to correct rotation.

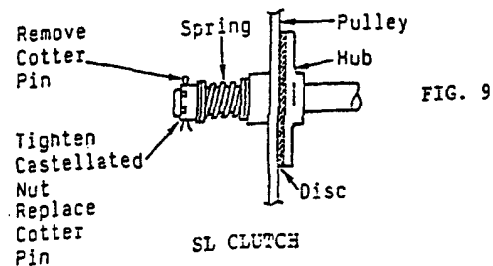
After wiring has been changed and operator is running properly, limits will probably need re-adjusting. (See limit Adjustment)

WHERE OPERATORS WITH WIRING TYPES WHICH UTILIZE CONSTANT PRESSURE ON THE CLOSE BUTTON ARE USED, THE CONTROL STATION MUST BE LOCATED SO THAT THE OPERATION OF THE DOOR MAY BE OBSERVED BY THE PERSON OPERATING THE DOOR.

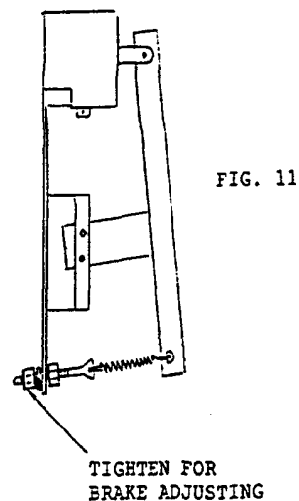
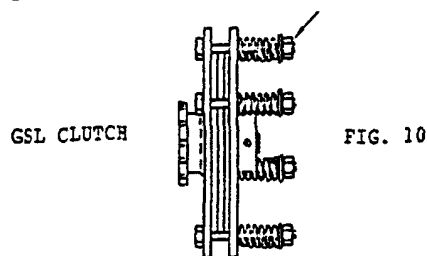
**CLUTCH ADJUSTMENT:** (See Figures 9 & 10)

### BRAKE ADJUSTMENT

The solenoid brake is adjusted at the factory. If it appears that adjustment is necessary, tighten brake adjusting bolt. (See Figure 11).



To tighten the clutch, turn all four of the clutch adjusting nuts clockwise 1/4 turn each.



# SLIDE DOOR

## INSTALLATION MANUAL

### IMPORTANT: KEEP FOR FUTURE REFERENCE

THE FOLLOWING INFORMATION SHOULD BE RECORDED AT TIME OF INSTALLATION:

DATE: \_\_\_\_\_

SERIAL #: \_\_\_\_\_

OPERATOR MODEL: \_\_\_\_\_

WIRING DIAGRAM #: \_\_\_\_\_

THE "OPERATOR MODEL" AND "SERIAL #" ARE LOCATED ON THE ELECTRICAL ENCLOSURE COVER. WIRING DIAGRAM IS LOCATED INSIDE COVER, DIAGRAM # IS AT LOWER RIGHT-HAND CORNER.

THE ABOVE INFORMATION SHOULD BE GIVEN IN ALL CORRESPONDENCE REGARDING THIS OPERATOR TO INSURE FAST SERVICE WHEN ORDERING PARTS OR REQUESTING INFORMATION.

NOTE: MOUNT CONTROL STATION AND WARNING LABEL WITHIN SIGHT OF DOORWAY.

### WARNING

TO PREVENT ENTRAPMENT  
DO NOT START CLOSE CYCLE  
UNLESS OPENING IS CLEAR.

3. Secure the assembled operator to the wall. **IMPORTANT: BE SURE OPERATOR TRACK AND DOOR TRACK ARE PARALLEL.** Check that the door clears the power head when moving. Adjust the track hangers on the mounting brackets to the desired position and tighten all bolts. It is recommended that at least one sway brace be used (not provided) between the wall and one of the track hangers for increased rigidity, especially on large or heavy doors.
4. Mount the door disconnect mechanism so that the top of the bracket is no more than 2" below the slider carriage (See Figure 4 & 6). This mechanism may be adjusted both front and back and up and down to align the disconnect pin. It may be necessary to shim between the mechanism and the door to bring the pin out into the center-line of the track.

**NOTE:** For bi-parting doors, mount both door disconnect mechanisms. (See Figures 5 & 6).

It is necessary to bring the doors to a fully closed position for proper synchronization. With both disconnect pins engaged in their respective carriages, lift the drive chain over the three studs on the bi-part carriage and secure the chain to the slider carriage with the hardware provided.

**SUITABLE FASTENERS  
BY INSTALLER**

**KEEP AS NARROW AS POSSIBLE  
TO REDUCE SWAY**

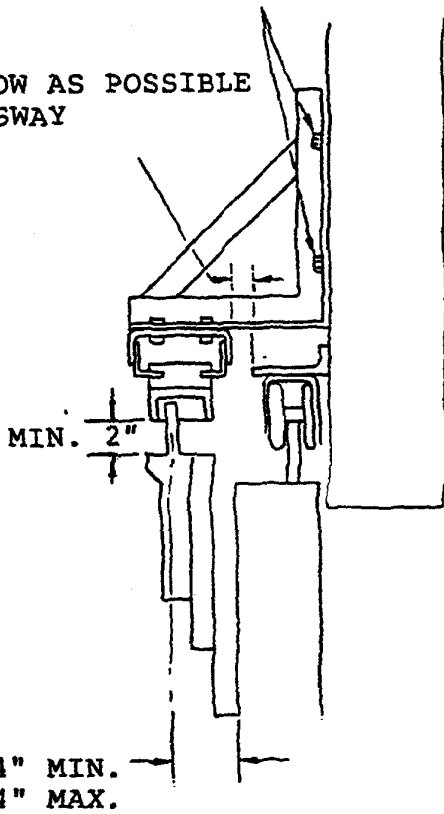


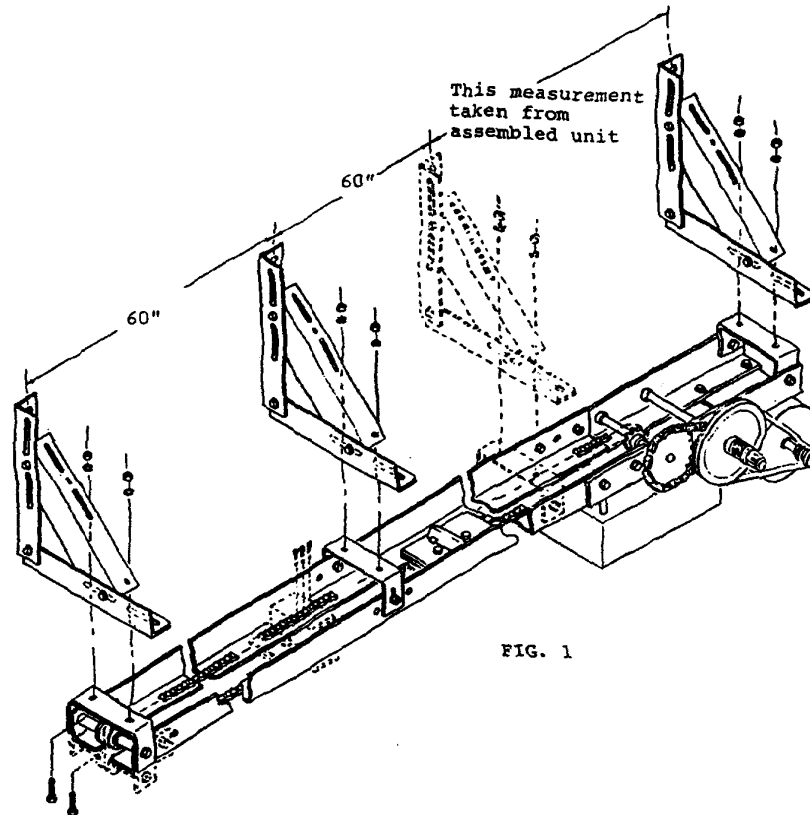
FIG. 6

**INSTALLATION PROCEDURE**

**OPERATOR ASSEMBLY**

The Model SL and GSL operator should be pre-assembled as follows before installation:

1. Lay the two pieces of track parallel to each other, and install front idler shaft assembly (See Figure 1).
2. Install track spreader brackets with 3/8" hardware (See Figure 1). The number of brackets will vary with door width. The holes in the track for the brackets are prepunched and are generally about 60" apart.



3. Install chain take-up bolt on slider carriage with two 3/8 hex nuts and lockwasher and slide the slider carriage onto the track so that the take-up bolt will be facing the front idler (See Figure 2.)

## SLIDE DOOR OPERATOR

The SL Series Door operators will electrically operate single and bi-parting slide doors up to a total weight of 2100 lbs. and a total opening of 400 square feet. All SL operators are designed and constructed in accordance with UL 325 Standard for Door and Gate Operators.

The SL operator is equipped with a floor level disconnect to permit emergency manual door operation, chain driven rotary limit switches, No. 41 roller chain drive, and heavy duty double solenoid brake and an adjustable friction clutch. Heavy-duty hanger brackets are supplied. The operator is pre-wired for 3 button station, pull cord station, and automatic reversing equipment.

The GSL (Gear Reduced Unit) in addition to the above features will operate doors up to 600 sq. ft. and 3000 lbs.

### MODELS: SL, SLB, GSL, & GLSB PACKING LIST

- 1) 1 POWER HEAD
- 2) 3 MOUNTING BRACKETS, 3 SPREADERS
- 3) 1 FRONT IDLER ASSEMBLY (2 FOR BI PART WITH SPECIAL BRACKET)
- 4) 1 SLIDE DOOR TROLLEY (SECOND TROLLEY SPECIAL REQUIRED FOR BI PART)
- 5) SLIDE DOOR DISCONNECT ASSEMBLY, CHAIN LOCK & KEY RING (2 REQUIRED FOR BI PART)
- 6) SLIDE DOOR TRACK
- 7) CONTROL STATION AS REQUIRED
- 8) #41 DRIVE CHAIN AS REQUIRED
- 9) SLIDE DOOR INSTRUCTION MANUAL
- 10) FOR FIRE DOOR (FIRE DOOR DISCONNECT BRACKET W/FUSABLE LINK REQ'D)
- 11) HARDWARE BAG (FOR UP TO 3 MOUNTING BRACKETS)
  - 1) 23 - 3/8 X 3/4 BOLTS (ADD 7 FOR EACH ADD. MOUNTING BRACKET)
  - 2) 23 - 3/8 LOCK WASHERS (ADD 7 FOR EACH ADD. MOUNTING BRACKET)
  - 3) 21 - 3/8 NUTS (ADD 7 FOR EACH ADD. MOUNTING BRACKET)
  - 4) 6 - 5/16 X 2 1/2 CARRIAGE BOLTS (12 FOR BI PART)
  - 5) 6 - 5/16 LOCK WASHERS (12 FOR BI PART)
  - 6) 6 - 5/16 NUTS (12 FOR BI PART)
  - 7) 1 - 3/8 CHAIN TAKE UP BOLT
  - 8) 1 - #41 CONNECTING LINK
  - 9) 3-10 - 32 X 3/4 LG SOCKET HEAD SCREWS (BI PART ONLY)

### SLIDE DOOR MOUNTING BRACKET SCHEDULE

DOOR WIDTH	QTY BRACKETS REQ'D	QTY SPREADERS REQ'D
4'	2	2
5'	2	2
6'	3	3
7'	3	3
8'	3	3
10'	4	4
12'	4	4
14'	4	4
16'	5	5
18'	5	5
20'	6	6

## FUSED FIRE DOOR DISC BRACKET INSTALLATION

1. Mount door bracket. Fused link must be in opening when door is in open position.
2. Adjust pin to center of traveler.
3. Spring must be fully compressed when pin is engaged.
4. Adjust pin length by moving collars on pin shaft. (See Figure 7).

**NOTE:** Bi-part fire door disconnect assembly on door opposite power head, to be mounted 2" lower than disconnect assembly mounted on door closest to power head to provide clearance between extension bars when closed. (See Figure 8).

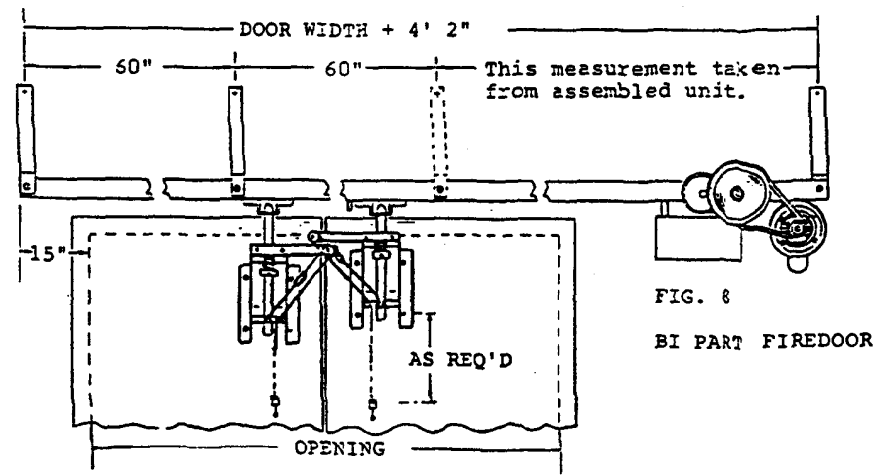
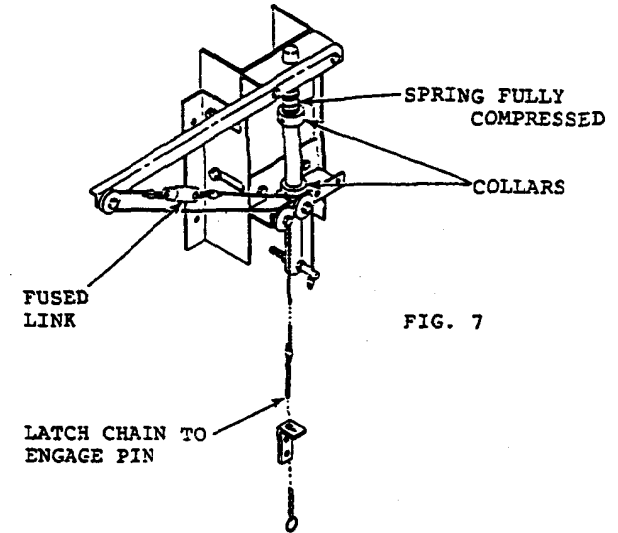
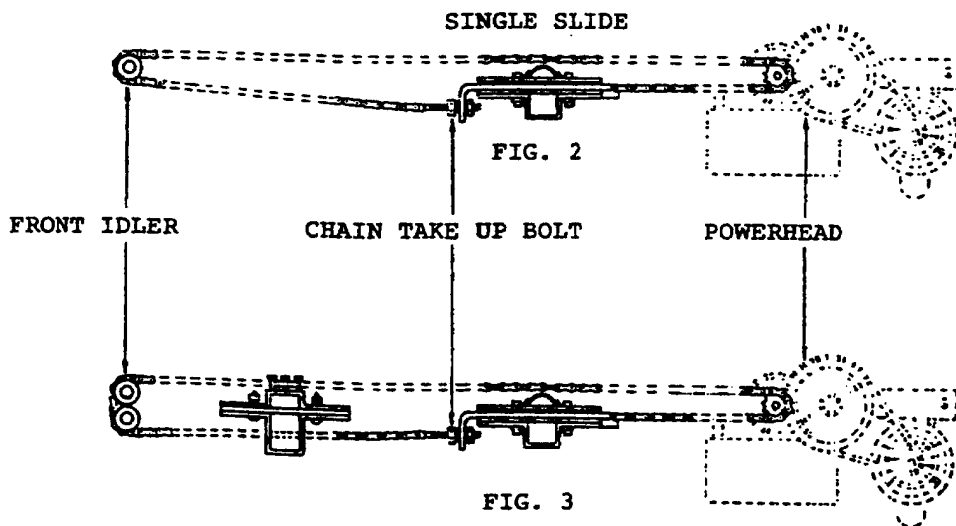


FIG. 8  
BI PART FIREDOOR

**NOTE:** For bi-parting doors, slide secondary slider carriage into track assembly first, so that this slider is closest to the front idler. (See Figure 3).

4. Install track spreader bracket on back of powerhead. Position the track assembly on the motor unit and install, tightening the bolts securely. For a right to open single-sliding door, the powerhead should be mounted in the right hand end of the track with the pulleys facing out.
5. Attach the chain to the slider carriage using the connecting link provided. Reel the chain around the drive sprocket, up to the idler shaft and then back to the front of the carriage, attach to chain take up bolt using the connecting link provided. (See Figure 2).



BI-PARTING SLIDE

6. It may be necessary to remove some links for proper tension. Tighten chain by adjusting chain take-up bolt. A properly adjusted chain will sag about 3" at the midpoint.

**NOTE:** Leave bi-part slider carriage free at this time.

7. Bolt the angle mounting brackets to the track spreader brackets, using the 3/8" bolts lockwashers and nuts. (See Figure 1.) Do not tighten as the distance from the wall to the track will have to be adjusted later.

## OPERATOR MOUNTING

- 1) For single slide doors sliding right to open locate first angle mounting bracket 9" to left of opening, for doors sliding left to open locate first angle mounting bracket 9" to right of opening. (See Figure 4).

**NOTE:** For bi-parting doors this measurement is 15". (See Figure 5).

- 2) Set the assembled operator into position and mark the holes for the angle mounting brackets on the wall, as low as possible without interfering with door travel (See Figure 6). Drill holes in the wall for mounting. Through-bolts are recommended for this purpose. If wall construction does not permit the use of through-bolts, lag bolts and shields may be used.

