APPLICATION REQUIREMENTS
This wiring modification is available to models DJ and DH/J Standard-Duty operators with 24Vac control circuits and “D1” type wiring.

NOTE: If C2 or B2 wiring is desired refer to conversion instructions on pages 2 and 3.

FUNCTIONS
This modification stops the operator when extra tension is sensed on the door from the mechanical door lock, obstruction or extensive binding.

OPERATION
When the operator senses extra tension when closing, the Lock Sensor will stop the operator. Press close button and run until the operator shuts off (to unlock door when load removed).

ADJUSTMENT

FINE ADJUSTMENT
- To increase opening force, tighten wing nut.
- To decrease opening force, loosen wing nut.

COURSE ADJUSTMENT (if required)
1. Release spring pressure on pivot arm.
2. Loosen but do not remove mounting screws (2).
3. Fully tension final reduction chain and rotate Lock Sensor until switch is in activation mode.
4. Tighten mounting screws (2) to secure Lock Sensor position.
5. Repeat fine adjustments.

WARNING
To avoid SERIOUS PERSONAL INJURY or DEATH from electrocution, disconnect electric power to operator BEFORE adjusting Lock Sensor.
208/230 VOLT - 3 PHASE MOTOR CONNECTION

460 VOLT - 3 PHASE MOTOR CONNECTION

575 VOLT - 3 PHASE MOTOR CONNECTION

OVERLOAD

(SEE NOTE 3)

ELECTRICAL BOX END VIEW

LIMIT NUT

SAFETY LIMIT SW.

AUXILIARY CLOSE

AUXILIARY OPEN

LIMIT SW.

OPEN LIMIT SW.

OVERLOAD

(SEE NOTE 3)

OVERLOAD

(SEE NOTE 3)

OVERLOAD

(SEE NOTE 3)

MOTOR OVERLOAD

* OVERLOAD

* OVERLOAD

* MOTOR O/L LEAD COLOR BROWN

C2 WIRING CONVERSION

1. Move Orange wire from terminal 7 to terminal 3.
2. Move Yellow wire from terminal 1 to terminal 3.

NOTE: Be sure to supply a STOP button after conversion.

B2 WIRING CONVERSION

1. Move Orange wire from terminal 7 to terminal 3.
2. Move Yellow wire from terminal 1 to terminal 3.
3. Move Red wire from terminal 2 to terminal 3.

NOTE: Be sure to supply a STOP button and safety edge after conversion.

NOTES:
1) TO REVERSE MOTOR DIRECTION: INTERCHANGE PURPLE & GRAY MOTOR LEADS AT CONTACTOR 1 & 3.
2) TRANSFORMER PRIMARY & RELAY VOLTAGE SAME AS LINE VOLTAGE.
3) THREE PHASE UNITS MAY BE EQUIPPED WITH AN INTERNAL PILOT DUTY THERMAL OVERLOAD DEVICE, OR AN EXTERNAL LINE MONITORING DEVICE.

IMPORTANT: Refer to installation manual supplied with this operator, for additional instructions.

1. To adjust limit nuts depress retaining plate to allow nut to spin freely. After adjustment, release plate and ensure it seats fully in slots of both nuts.
2. To increase door travel, spin nut away from actuator.
3. To decrease door travel, spin limit nut toward actuator.
4. Repeat Steps 1 and 2 for close cycle. Adjust close limit nut so that actuator is engaged as door fully seats at the floor.
**C2 WIRING CONVERSION**

1. Move Orange wire from terminal 7 to terminal 3.
2. Move Yellow wire from terminal 1 to terminal 3.

**NOTE:** Be sure to supply a STOP button after conversion.

**B2 WIRING CONVERSION**

1. Move Orange wire from terminal 7 to terminal 3.
2. Move Yellow wire from terminal 1 to terminal 3.
3. Move Red wire from terminal 2 to terminal 3.

**NOTE:** Be sure to supply a STOP button and safety edge after conversion.

**OVERLOAD (SEE NOTE 3)**

**WARNING**
Always Disconnect Power Whenever Installing or Servicing the Door Operator.

**IMPORTANT:** Refer to installation manual supplied with this operator, for additional instructions.

1. To adjust limit nuts depress retaining plate to allow nut to spin freely. After adjustment, release plate and ensure it seats fully in slots of both nuts.
2. To increase door travel, spin nut away from actuator. To decrease door travel, spin limit nut toward actuator.
3. Adjust open limit nut so that door will stop in open position with the bottom of the door even with top of door opening.
4. Repeat Steps 1 and 2 for close cycle. Adjust close limit nut so that actuator is engaged as door fully seats at the floor.

**NOTES:**
1) TO REVERSE MOTOR DIRECTION: INTERCHANGE PURPLE & GRAY MOTOR LEADS AT CONTACTOR 1 & 3.
2) TRANSFORMER PRIMARY & RELAY VOLTAGE SAME AS LINE VOLTAGE.
3) THREE PHASE UNITS MAY BE EQUIPPED WITH AN INTERNAL PILOT DUTY THERMAL OVERLOAD DEVICE, OR AN EXTERNAL LINE MONITORING DEVICE.
**IMPORTANT NOTES:**
1. The 3-Button Control Station provided must be connected for operation.
2. If a STOP button is not used, a jumper must be placed between terminals 3 and 4.
3. Auxiliary control equipment may be any normally open two wire device such as pullswitch, single button control station, loop detector, card key or such device.

### 3 BUTTON STATION OR 3 POSITION KEYSWITCH WITH SPRING RETURN TO CENTER AND STOP BUTTON

<table>
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<th>KEY LOCKOUT</th>
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<td><img src="image2" alt="Diagram" /></td>
<td><img src="image3" alt="Diagram" /></td>
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ALL CONTROL WIRING TYPES

### 2 BUTTON STATION OR 3 POSITION KEYSWITCH WITH SPRING RETURN TO CENTER

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<tr>
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<th>1 BUTTON STATION OR ANY AUXILIARY DEVICE</th>
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<tbody>
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<td><img src="image5" alt="Diagram" /></td>
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ALL CONTROL WIRING TYPES

### SENSING DEVICE TO REVERSE OR STOP

| ![Diagram](image7) |

ALL CONTROL WIRING TYPES

### EXTERNAL INTERLOCK

| ![Diagram](image8) |

ALL CONTROL WIRING TYPES

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**ATTENTION ELECTRICIAN:**
USE 16 GAUGE OR HEAVIER WIRE FOR ALL CONTROL CIRCUIT WIRING.