



GENERAL INSTALLATION, OPERATION, MAINTENANCE, and PARTS MANUAL for your

1295DC SLIDE GATE OPERATOR

Crown Industrial Operators

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Note: We reserve the right to modify or change, without prior notice, any statements or information contained herein. If exact dimensions or specifications are required by the customer certified prints will be furnished without charge upon request to Crown Industrial. This manual covers standard catalogued operators only and does not cover special non-standard equipment.

1. INTRODUCTION

A. PURPOSE:

This Crown Industrial Operators Installation, Operation, Maintenance and Parts Manual has been developed to assist you in the installation, operation, and maintenance of your electric operator, and thus enable you to utilize it to its maximum efficiency.

B. MODELS COVERED:

At the time this manual is issued to you, it covers the current Model 1295, and contains the latest information and data available. The parts pages have been prepared so that you can easily determine the parts contained in your electric operator.

C. DESCRIPTION:

The 1295 Electric Operator consists of an instantly reversible gearmotor, solenoid brake, a safety friction disc clutch, an emergency release which can be locked open or closed, and a fully automatic limit switch. This unit is compact, easy and economical to install, and is completely wired at the factory. (Figure 1) all items are mounted on a heavy steel base and are protected by a weather resistant cover with padlock attachment. The standard 1295 Operator can be furnished with 1/2 or 1 horsepower gearmotors.

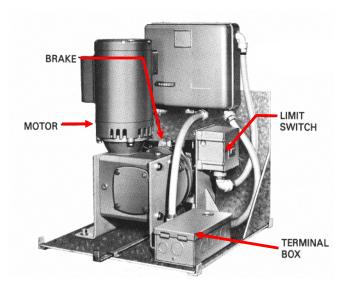
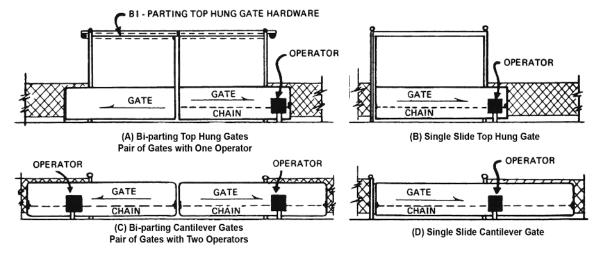


Figure 1. 1295 Slide Gate Operator (shown without weather resistant cover)

2. INSTALLATION AND OPERATION

A. GENERAL

- (1) The Crown Industrial 1295 Electric Gate Operator has been field proven for dependable, trouble-free operation of sliding gates. Four basic applications are shown in Figure 2A, B, C & D. To insure correct installation and proper operation, follow the instructions listed below.
- (2) Before Installation CHECK THE SHIPMENT for:
- Locate Packing List and verify all materials against it.
- Locate any supplemental, job-specific drawings. Use the dimensions on these drawings, as they take precedence over those in this manual.
- Locate Wiring Diagram. A copy of this diagram is included in the packing list envelope as well as on the inside cover of the operator control box.
- (3) CHECK THE GATE: Before starting operator installation, inspected to insure that the gate is in good working condition, slides freely, is rigidly supported, and has no obstructions to block or retard its slide.
- (4) REVIEW THE INSTALLATION DRAWING: The installation drawing shows the layout of the gate, template drilling for the gate bracket and channel post, and general terms used to describe components. Review of the drawing will familiarize you with the equipment.



Figures 2a, b, c, & d Basic Gate Applications

(5) PREPARING THE GATE:

The Electric Gate Operator powers the gate through the use of a single horizontal strand of heavy-duty roller chain connected to a gate 068240 chain adjusting screw assembly which in turn is mounted to a bracket on each end of the gate. Locate each bracket at the appropriate height and square with the gate and mounts. Included with the operator can be one or more 1295P376 Chain Guide Brackets, one per each 16 foot of gate length. For gates 31 feet or shorter in width, mount the chain guide bracket as close to the center of the gate as possible at a height suitable to clear the operator as chain guide bracket passes in front of the operator. For wider gates, space the chain guide brackets accordingly.

B. PREPARING THE MOUNTING CHANNEL

(1) CONCRETE EMBEDDED TYPE: The #068545 embed operator support 10" S-beam is an optional extra cost item. When furnished as an optional part of the operator equipment, it will be predrilled for the mounting of the operator. When the embed post is not provided, consult the factory drawing for #068545 embed operator support 10" S-Beam for proper mounting hole locations. It is recommended that this post be hot dip galvanized or specially treated to avoid corrosion. Note, the size and depth of piers may vary with soil and fill types. The centerline of the channel to the edge of the opening should also be no closer than 1 foot.

NOTE: SUITABLE MOUNTING OF POST IS THE RESPONSIBILITY OF THE CUSTOMER AND/OR CONTRACTOR. THE POST MUST BE INSTALLED PLUM AND IN EXACT POSITION AS PER INSTALLATION DRAWINGS.

(2) PAD MOUNTED TYPE: The #1295P375 pad mounted Column for support of the operator is available as an optional extra cost item. When furnished, they will be predrilled for mounting of the operator to the concrete pad and are hot dipped galvanized for added corrosion resistance.

NOTE: A SUITABLE MOUNTING PAD WITH (4) 3/4" DIAMETER STUDS IS THE RESPONSIBILITY OF THE CUSTOMER AND/OR CONTRACTOR. THE PAD MUST BE LEVEL AND THE STUDS IN THE EXACT POSITION AS SHOWN ON THE FACTORY DRAWING FOR THE #1295P375 OPERATOR MOUNTING COLUMN.

C. MOUNTING THE OPERATOR

- (1) Remove the Electric Gate Operator from the crate and then remove the weather resisting cover by lifting it straight up and off.
- (2) Mount the two angle supports to the channel with (4 ea.) bolts (3/8 x 1-3/4"), flat washers, lock washers and nuts.
- (3) Raise the Operator into Position on top of the channel, being sure the operator drive sprocket is on the side facing the gate. With the operator parallel to the gate, secure in place with (4 ea.) cap screws (3/8"x1"), flat washers and lock washers.

D. CONNECTING OF CHAIN

- (1) Push in on the operator release rod located on the lower rear side of the operator. Hold release rod in by placing a screwdriver or pin through the matching holes. Check to see if the drive sprocket is free to rotate.
- (2) As noted on the red tag attached to the operator, thread the drive chain under the idler sprockets and over the drive sprocket.
- (3) Connect the chain to the adjusting screws on each gate bracket and proceed to apply proper tension. For correct chain tension the change should sag at midspan approximately 1% of the total free run of the chain.

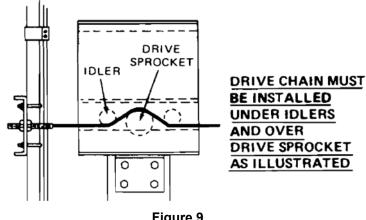


Figure 9
Drive Chain Installation

CAUTION: EXCESSIVE CHAIN TIGHTNESS COULD CAUSE EXTREME WEAR ON THE IDLER SPROCKET BUSHINGS AND SHORTEN THEIR LIFE. CONVERSELY, A LOOSE CHAIN COULD JUMP THE DRIVE SPROCKET AND JAMB OR CHANGE GATE STOPPING POINTS.

E. CLUTCH ADJUSTMENT

- (1) The clutch is designed to protect the equipment from shock loads that may occur in the system. Under normal operation, the clutch will not slip. The The clutch should be adjusted to provide sufficient torque for the operator to start and stop the gate without slipping. However, it must not be so tight that it cannot slip under excessive loads.
- (2) To adjust The clutch, tighten The bolts marked "A" as shown in Figure 15. Never tighten bolts **consecutively**, but always directly across from each other so as to provide even tension. An **equal turn** of each bolt is An important adjustment procedure.

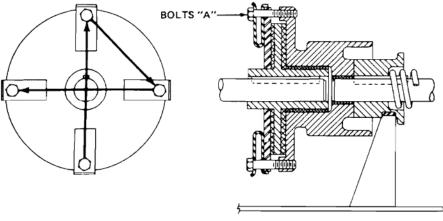


Figure 15
Adjusting Clutch

F. BRAKE ADJUSTMENT

- (1) The brake has been preadjusted at the factory and requires no further adjustment at initial installation.
- (2) When adjustment is required due to brake lining wear, refer to *Figure 16. Solenoid brake*. As the break lining wears, the clearance "C" decreases. Never permit this clearance to become zero. When clearance "C" becomes minimal, restore it by turning screw "E" to increase the clearance by 1/64".

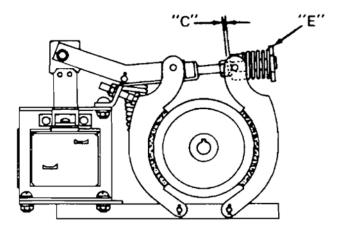
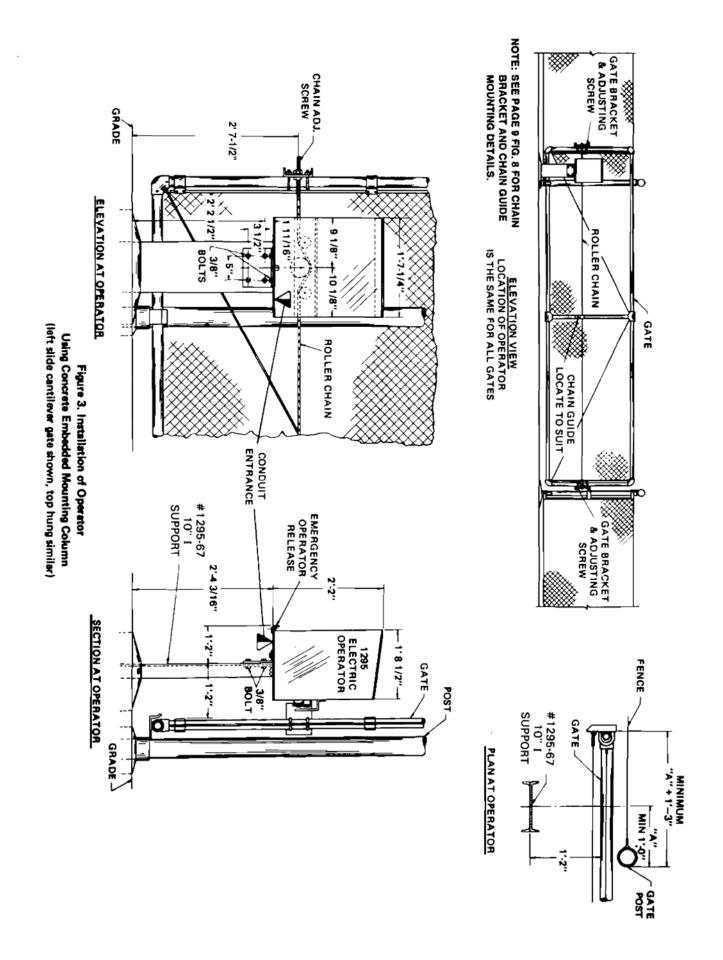
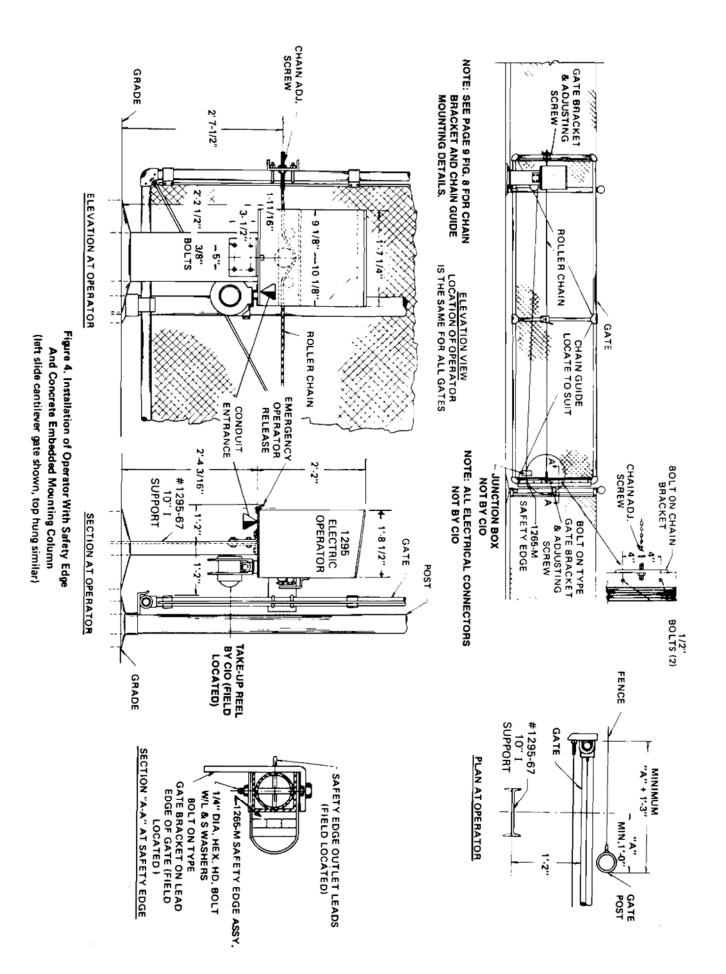
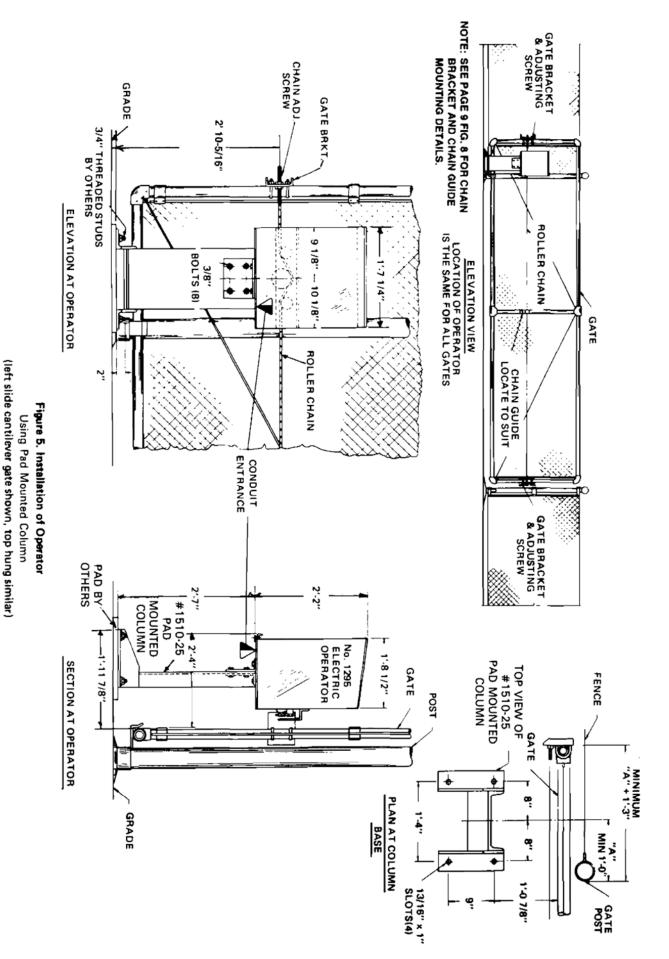


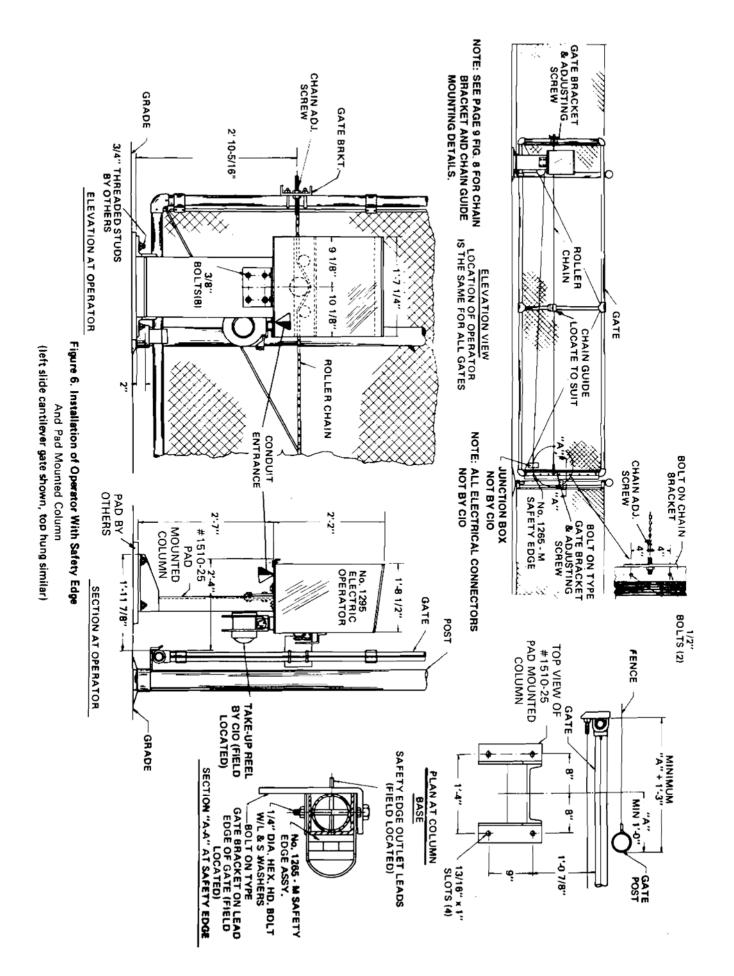
Figure 16 Solenoid Brake

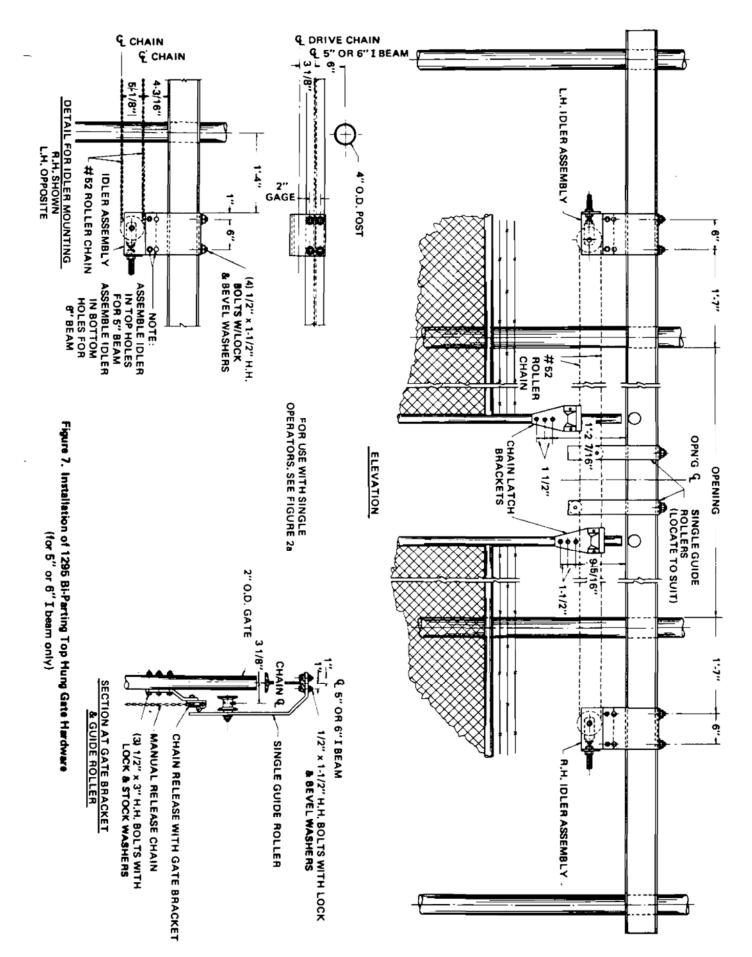


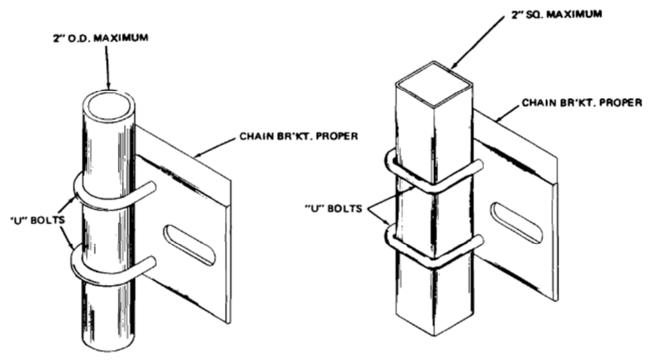




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APPLIED TO GATE WITH ROUND
FRAME

GATE CHAIN BRACKET

APPLIED TO GATE WITH SQUARE

FRAME

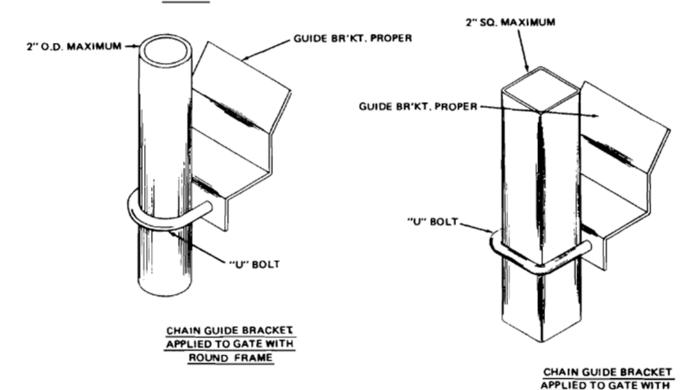


Figure 8. Chain Bracket and Chain Guide Bracket Attachment

SQUARE FRAME

Electrical Wiring

This electric door operator is intended for application to motor branch circuits with voltage and current characteristics to meet operator ratings. Ensure input voltage and amperage match what is indicate on the wiring diagram for your specific unit. Branch circuit, branch circuit disconnecting means, and branch circuit overcurrent protection are to be properly sized in respect to the operator horsepower rating.

With power OFF, wire Operator Motor, Limit Switches, Actuator Controls and Safety Devices as shown on the wiring diagram provided in the operator packing list envelope or on the inside cover of the operator control box unit.

Warning: Ensure operator branch circuit is disconnected from power source when installing, adjusting, or servicing operator.

Door Direction—DC Motor Rotation

Purpose: To determine if you door is moving in the correct direction and address the issue if it is not.

- 1)Ensure all controls are properly wired and connected along with safety devices.
- 2)Get familiar with the controls of the unit. Ensure you understand how the controls run and stop the Operator Motor Unit.
- 3)Turn Off Power to Operator Motor Unit but switching off the power disconnect at the operator control box.
- 4)Loosen all bolts on the Operator Clutch or Torque Limiter so the drive sprocket is free to rotate with the roller chain, when the Operator Motor Unit is not running. The door should be free to move by hand.
- 5)Identify which direction the gearbox output shaft needs to spin in order for the door to open.
- 6)Restore power to the Operator Motor Unit.
- 7)Activate the actuator to cause an "open" signal. DOES THE GEARBOX TURN IN THE CORRECT DIRECTION as identified in step #5? 8)If "NO"
 - A) Turn off Power to the Control Box.
 - B) Switch the motor lead wires typically labeled "A1" and "A2" located on the terminal strip in the control box.
 - C) Restore power and confirm direction of rotation at the gearbox is correct.
 - D) Tighten all bolts on the Operator Clutch or Torque Limiter.



Figure VP2

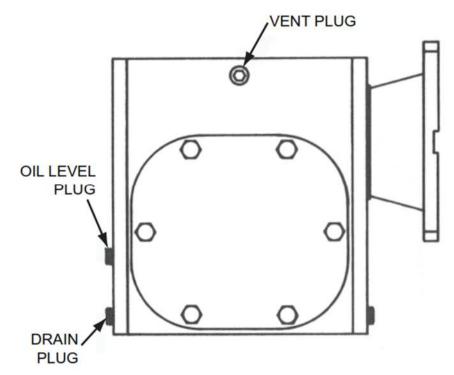


Figure VP1

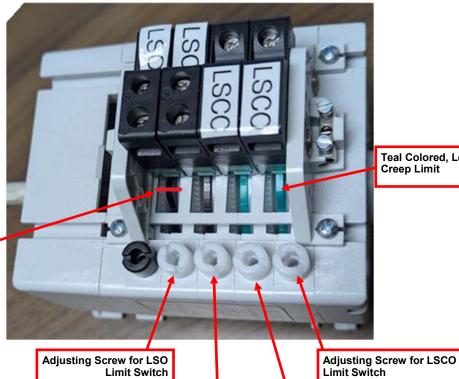
Once the operator/gearbox is positioned correctly and installed, remove the 1/2" NPT steel pipe plug located nearest the top of the gearbox (Figure VP1) and replace it with the blue plastic vent plug (Figure VP2) provided with the operator. The plastic vent plug allows for pressure equalization for the oil reserve inside of the gearbox.

Maintenance:

The drive unit is pre-lubricated and shipped with Mobil "SHC 634" synthetic lubricant. This oil is a lifetime lubricant rated for operation in ambient temperatures ranging from -40° F to $+125^{\circ}$ F.

Every **6 Months** check the oil level by removing the oil level plug. The oil should be up to the bottom of the plug hole.





Teal Colored, Long Cam of a **Creep Limit**

Black Colored, Short Cam of an Open or Close Limit

> **Adjusting Screw for LSO** Limit Switch

> > Adjusting Screw for LSCC Limit Switch

Adjusting Screw for LSC Limit Switch

Figure LS1



Limit switch shaft with limit switch sprocket

Figure LS2



Purpose:

To set the full Open (LSO), Close (LSC), Creep Open (LSCO) and Creep Close (LSCC) limits of your operator.

- Limit Switch Open (LSO): defines where your door will stop in the full open position.
- Limit Switch Close (LSC): defines where your door will stop in the full closed position.
- Limit Switch Creep Open (LSCO): This limit actives the creep mode during the end of the open cycle. When the limit
 switch is actuated the door travels in the opening direction at a reduced speed set by the Creep Potentiometer in the
 Control Box.
- Limit Switch Creep Open (LSCC): This limit actives the creep mode during the end of the close cycle. When the limit
 switch is actuated the door travels in the closing direction at a reduced speed set by the Creep Potentiometer in
 the Control Box.

Description:

The rotary limit switch is designed to accurately control the end limits of the door travel provided by the electric operator as well as the activation point and duration of the creep mode. The limit switch input shaft drives a set of planetary gears which in turn drives a set of nylon cams (See Figure LS1). Each precision limit switch unit is actuated by its individual nylon cam. The cam rotate as the operator travels the door back and forth. The cam contacts the electrical snap switches to either stop the travel of the operator or initiate the creep modes. The limit switch typically has 4 switches.

To adjust each individual limit switch, turn the screw adjustment for each specific limit switch. Note that depending upon the handing of the operator the cams travel from either the clockwise or counterclockwise direction to activate the appropriate snap switches.

| Limit Switch Adjustment | Limit Switch Adjusting Screw Rotation Direction | | | |
|---|---|--------------------------------|--------------------------------------|---------------------------------------|
| Limit Switch Sprocket Rotation Direction | LSO (Limit Switch Open) | LSC (Limit Switch Close) | LSCO (Limit Switch Creep Open) | LSCC (Limit Switch Creep Close) |
| Rotates <u>Counter Clockwise</u> to Open | Counter Clockwise | Clockwise | Clockwise | <u>Counter Clockwise</u> |
| | to Open More | to Close More | to Creep Open Longer | to Creep Close Longer |
| Rotates <u>Clockwise</u> to Open | Clockwise | Counter Clockwise | <u>Counter Clockwise</u> | Clockwise |
| | to Open More | to Close More | to Creep Open Longer | to Creep Close Longer |

Table LS T1

Preliminary Rotary Limit Switch Adjustment:

- 1. PREPARATION FOR ADJUSTMENT:
 - a. <u>Disconnect the Electrical Power Supply to the Operator Control Box.</u>
 - b. Unscrew limit switch cover and expose assembly.

2. ROUGH ADJUSTMENT:

- a. Manually Slide or Swing the door in the open direction and note the direction the Limit Switch Sprocket is rotating. Is it turning clockwise or counterclockwise? Reference **Table LS T1**.
- b. Manually Slide or Swing the door to approximately 6" from the full open position.
- c. Adjust the LSO cam adjuster until the cam contacts the electrical snap switch from the same direction and you hear it click.
- d. Manually Slide or Swing the door towards the closed direction and back towards the open direction. The snap switch should click when the door gets approx. 6" from the full open position.
- e. Position the door approx. 12" from the full open position.
- f. Turn the LSCO cam adjusting screw until the cam contacts the electrical snap switch from the same direction as the LSO switch and you hear it click. <u>Note:</u> This cam is longer and the operator shall only travel in closed creep mode while this cam is depressing the snap switch.
- g. Repeat Step (d). The LSCO the snap switch should click when the door gets approx. 12" from the full open position.
- h. Manually Slide or Swing the door to approximately 6" from the full closed position.
- i. Turn the LSC adjusting screw until the cam contacts the electrical snap switch from the opposite direction and you hear it click.
- j. Manually Slide or Swing the door towards the open direction and back towards the closed direction. The snap switch should click when the door gets approx. 6" from the full closed position.
- k. Position the door approx. 12" from the fully closed position.
- I. Turn the LSCO cam adjusting screw until the cam contacts the electrical snap switch from the same direction as the LSC switch and you hear it click. <u>Note:</u> This cam is longer and the operator shall only travel in open creep mode while the cam is depressing the snap switch.
- m. Repeat step (j) LSCO the snap switch should click when the door gets approx. 12" from the full open position.
- n. Move the door back and forth noting that the proper snap switches are being contacted from the proper direction at the proper time.

Final Rotary Limit Switch Adjustment:

After the Run Speed, Creep speed and ACCEL & DECEL trimpots have been adjusted, the final limit switch settings can be made. (Reference "DC Drive Controller and RUN/CREEP Speed Settings" section of this catalog, begins on sheet DC1)

- a. Actuate the operator controls and adjust the rotary limit switches (LSO & LSC) to stop the door in the full open and closed positions.
- b. Actuate the operator and adjust the rotary limit switches (LSCO & LSCC) to initiate the creep mode at the desired time. Keep in mind that the operator only travels in creep mode as long as the cam lobe is depressing the snap switch.
- c. After adjusting LSCO & LSCC check the travel of the door. LSC & LSO may need to be re-adjusted.
- d. Activate the operator to open and close the door several times and fine tune the limit switches.

<u>Note:</u> The length of time the operator is running in creep mode must be long enough to allow for it to dynamically brake from run speed to creep speed plus the desired length of time the operator is traveling under creep mode. If the DECEL time is set for too long, the creep mode may be adversely affected.

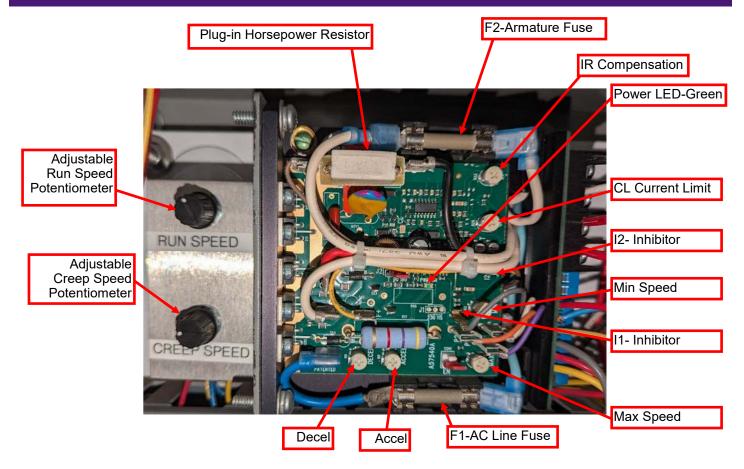


Figure CB1
DC Control Board with Speed Control Potentiometers

The DC Drive Control board and Speed Control Potentiometers for the Run and Creep speeds can be found in the operator control box (Reference Figure CB1). When power is provided to the unit, you will see Power LED-Green lit in the middle of the DC Drive Control Board.

A. Set Run and Creep Speeds of Operator Unit

The run speed is adjusted by turning the potentiometer labeled "RUN SPEED". Turning this pot clockwise will increase the speed of the door.

- For doors up to 8'-0" wide a run speed of 45 ft/min or 9 in/sec is recommended.
- For doors over 8'-0" wide a run speed of 60 ft/min or 12 in/sec is recommended.

Creep Speed is activated by the LSCC (Limit Switch Creep Closed) or LSCO (Limit Switch Creep Open) limit switches. These limits are set near the end of the door travel to allow the door to slow down and come to a stop. For larger and heavier doors we suggest a longer creep set on the limit switch. (Reference "Rotary Limit Switch Setup" section of this catalog, begins on sheet LS1).

IMPORTANT: Once Run and Creep Speeds are adjusted, Make Final Rotary Limit Switch Adjustments (Reference "Rotary Limit Switch Setup" section of this catalog, begins on sheet LS1).

B. DC Drive Controller Settings

1) Acceleration (ACCEL) / Deceleration (DECEL) Trimpots:

Both the ACCEL and DECEL trimpots should <u>NOT</u> need adjustment. Depending upon the size and weight of the specific door, it may be necessary to field adjust the ACCEL and DECEL trimpots to allow for the operator to smoothly ramp-up to full run speed and to smoothly ramp-down to creep speed.

The ACCEL trimpot controls the ramp-up time when transitioning from Creep Speed to Full Run Speed. **Note: the minimum ACCEL setting should be 1 second.** Adjusting the ACCEL below 0.5 seconds increases the inrush current. The DECEL trimpot controls the amount of ramp-down time when transitioning from Full Run Speed to Creep Speed.

The following procedure, presented in order of adjustment sequence, should be used when re-adjusting all trimpot functions:

CAUTION!

[PM motors only]. Adjusting the accel time below .5 seconds increases inrush current. It may be necessary to measure the peak inrush current and consult with motor manufacturer since field magnet demagnetization may occur.

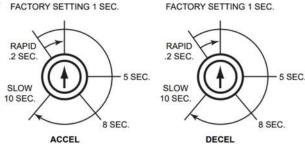


Figure CB2
ACCEL/DECEL TRIMPOT ADJUSTMENT

WARNING: DO NOT ATTEMPT TO ADJUST ANY OF THE FOLLOWING POTS ON THE DC CONTROL BOARD. THEY ARE FACTORY SET AND ADJUSTMENT COULD DAMAGE THE UNIT AND VOID THE WARRANTY. CONSULT THE FACTORY BEFORE MAKING ANY ADJUSTMENTS.

2) Minimum Speed: Adjustment (Min)

This trimpot sets the minimum run speed of the motor, when not on a creep limit. This trimpot should be set higher than zero to ensure the motor attempts to run when activated. **Note:** Adjusting the min speed will affect the max speed setting and therefore the Maximum Speed Trimpot should be further adjusted after a change has been made.

3) Maximum Speed: Adjustment (Max)

This trimpot sets the maximum run speed of the motor, when not on a creep limit. **Note:** Do not adjust the max speed above the voltage rating of the motor. This could be 90V DC or 180V DC depending on type of motor. Turn the adjustable RUN SPEED Potentiometer clockwise to it's maximum setting, then check voltage across terminals A1 & A2 and confirm voltage does not exceed the voltage rating of the motor.

4) Current Limit (CL)

This trimpot protects the motor and controller against overloads and demagnetization of PM motors. It also limits the inrush current to a safe level during startup. The CL is factory set to approximately 1.5 times the full load rating of the motor (65% of the full CW rotation).

5) IR Compensation Adjustment

This trimpot helps to improve load regulation. If the load presented to the motor does not vary substantially, the IR adjustment may be set at a minimum level (approx. 1/4 of a full setting). This is factory set and should not be adjusted.

6) Inhibit Terminals I1 & I2

DC2

11-20-24

By connecting terminals I1 & I2 together, this will electronically extinguish any output of the control.

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C. Troubleshooting DC Control Board

| Symptom | Possible Cause | Corrective Action | |
|----------------------------|---|--|--|
| Motor Does | not Run | | |
| | AC voltage not brought to L1, L2 Terminals | Check wiring and power disconnect | |
| | Blown Line or Armature fuse. | Check F1 & F2 fuses for continuity and replace. | |
| | Adjustable RUN SPEED and/or CREEP SPEED pots turned to 0. | Turn up pots Clockwise. | |
| | Ensure limits are set correctly | Reference Rotary Limit Switch Setup section of this catalog, begins on sheet LS1 | |
| | Defective Motor | Check for defective or worn motor | |
| Motor Hums when load is | or runs at very low speed (with RUN SPEED and CREEP SPEED pots applied. | turned CW to max) or motor slows down substantially | |
| | Low Voltage Check Line Voltage | | |
| | Overload Condition: Control in current limit mode (CL) | CL Trimpot setting may need to be increased. | |
| | Plug-In Horsepower Resistor not correct size. | Consult factory for proper resistor sizing. | |
| Motor Runs | in Wrong Direction | | |
| | Armature (motor) Leads A1 & A2 reversed | Disconnect power and rewire armature (motor) leads | |
| | | | |

3. MAINTENANCE FOR 1295 SLIDING GATE OPERATORS

A. GENERAL

To insure the operator is ready for operation at all times, it must be inspected systematically at least **EVERY 6 Months.** Proper adjustment and lubrication must be maintained and checked as recommended below.

B. PREVENTATIVE MAINTENANCE

1) Gearbox Lubrication:

The drive unit is pre-lubricated and shipped with Mobil "SHC 634" synthetic lubricant. This oil is a lifetime lubricant rated for operation in ambient temperatures ranging from –40°F to +125°F. Every **6 Months** check the oil level by removing the blue plastic oil level vent plug. The oil should be up to the bottom of the plug hole. Reference Vent Plug Installation, sheet VP1 section of this manual for any additional information.

2) Chain Lubrication:

Every 900 cycles, where one cycle consists of opening and closing of the door, or every **6 months**, whichever comes first, clean and lubricate the roller drive chain with a SAE lubricant as required for the ambient temperature.

3) Check Tension of Chain:

Óvertime the drive roller chain may stretch and must be retightened. Move the gate until it is into the full open position. Go to the middle of the chain and confirm the chain sags approximately 1% of the total free run of chain. Take care to not overtighten roller chain. The slack of the chain can be taken out at either of the chain adjustment screws located at each end of the chain.

4) Check Electrical Components & Wiring:

Ensure all electrical components are and wiring for tightness. Check battery life on all battery operated components such as wireless safety devices.

5) Check Clutch:

Reference Clutch Adjustment on Sheet 5 Section E of the 1295 Manual to confirm the tightness. Confirm clutch does not slip under normal condition.

6) Check Sprockets & Sprocket Keys:

Check the wear on sprocket teeth. Ensure set screws are tight and secured in place using Blue Loctite. Check condition of keys of sprockets.

7) Check All Bolts & Nuts for Tightness



4. PARTS

A. TO ORDER REPLACEMENT PARTS

Order all replacement parts using the number shown on the following parts list pages.

1) Identify Serial Number & Model Number

Located the serial number and confirm the model number as located on the identification plate on the motor unit.



Example of Identification Plate

| | Parts List - 1295 Operator, Gate Bracket and Chain Guide | | | | |
|----------|--|---|--|--|--|
| 01 : | ID# | Stock Part # | Description | | |
| Chain | 1.2222.2 | A | | | |
| | 1295P19 | 068240 | Chain Adjusting Screw (2 per Operator) | | |
| | | 096845 | #52 Roller Chain | | |
| | | 098312 | #52 Connecting (Master Link) | | |
| | 1295P376 | 1295P376 | Chain Guide Bracket | | |
| Operator | Mount | | | | |
| | | 1295P375 | Operator Mounting Column (Pad Mount) Assembly, HDG | | |
| | 1295P67 | 068545 | Embed Operator Support 10" S-Beam HDG | | |
| | 1295P377 | 1295P377 | Operator Column Support Assembly | | |
| Operator | Motor Unit | | | | |
| | | 1295IDLER | Idler Sprockets Replacement Kit | | |
| | 1295P328 | 1295.00328 | #52 Idler Sprocket Only | | |
| | 1295P333 | 1295.00333 | Idler Axle Only | | |
| | 1295P327 | 1295.00327 | #52 Drive Sprocket Only | | |
| | 1295P195 | 068595 | Operator Cover Assembly | | |
| | Secretary Secretary | 1295-GB | 1295 Gear Box (HP Dependent) | | |
| | | 1265Motor | DC Motor (HP & Input Voltage Dependent) | | |
| | 1295P101 | 0961XX | Solenoid Drum Brake (Input Voltage Dependent) | | |
| | A STATE OF THE STA | 09614XC | Replacement Solenoid Brake Coil only (Input Voltage Dependent) | | |
| | 1295P332 | 415B12x5/16 | 12 Tooth Limit Switch Timing Sprocket, Ptd | | |
| | | SRLS-xxxx | Limit Switch (Opening Size Dependant) | | |
| | 1295P331 | 1295.00331 | 25 Tooth Timing Sprocket, Ptd. | | |
| Clutch C | omponents | Liver to the content of the content | | | |
| | | 1295Clutch | Clutch Assembly w. Sliding Clutch | | |
| | 1295P92 | 12000141011 | Driver Disc (HP Dependent) | | |
| | 1265P6 | 067020 | Clutch Disc (2 Per Operator) | | |
| | 1265P7 | 067030 | Outer Clutch Plate, Ptd. | | |
| | 1265P20 | 067090 | (4 ea) Clutch Spring w. 3/8-24 x 1-3/4 Hex Bolt (Fine Thread) | | |
| | 1295P38 | 068370 | Release Arm Clip, Ptd. | | |
| | 1295P41 | 068391 | Sliding Clutch, Ptd. | | |
| | 1295P42 | 068400 | Release Spring | | |
| | 1295P51 | 1295.00324 | Shaft Extension | | |
| | 1295P52 | 068450 | Release Arm Weldment | | |
| | 1295P53 | 068459 | Clutch Drum | | |
| | 1250P138 | 065290 | Clutch Drum Bushing | | |
| | 925P122 | 056680 | 1295 Spacer, Zinc | | |

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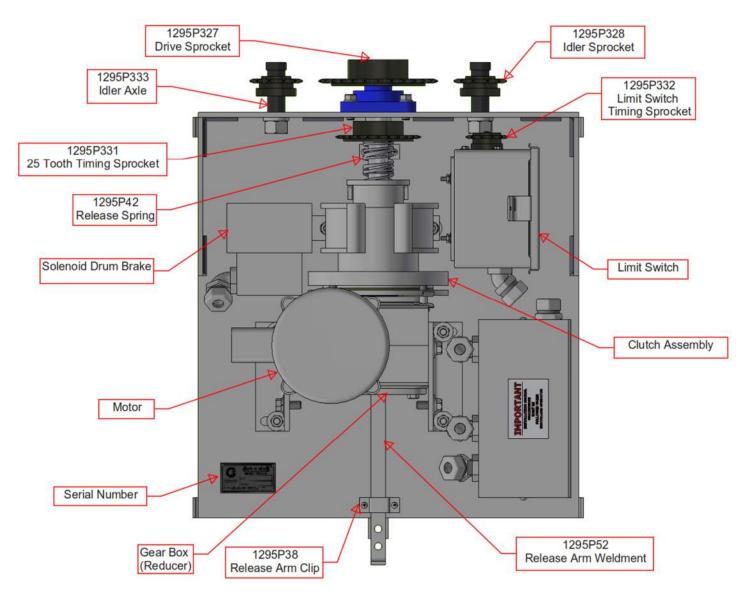


Figure PL2.1 Illustration of Parts: Plan View of 1295 Operator

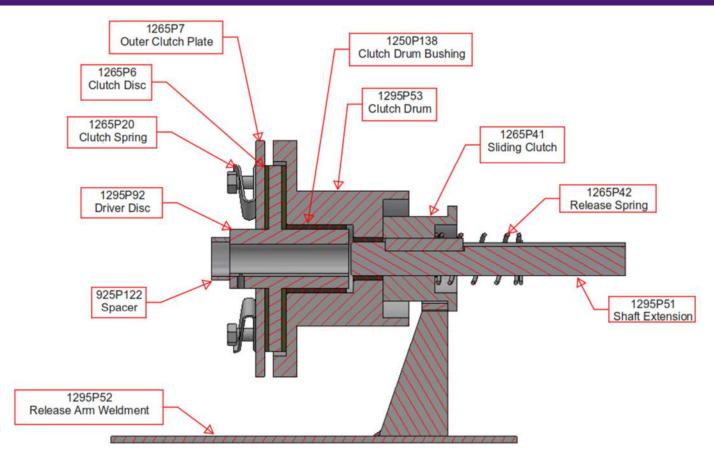


Figure PL2.2 Illustration of Parts: Sectional Detail View of Clutch Assembly



Figure PL2.3 Illustration of Parts: Chain Adjusting Screw Detail