FINAL ADJUSTMENT AND REGULATING PROCEDURE

REGULATING DOOR SPEED AND LATCHING SPEED AS NEEDED.

USE HEX SOCKET (1/8" ALLEN) WRENCH AND TURN VALVES CLOCKWISE TO REGULATE DOOR SPEED AND LATCHING SPEED IN REQUIRED RANGE.

NOTE: FOR 08 AND OLC TYPE ARMS MOUNTING ADJUSTMENTS ARE TIGHTENED.

NOTE: FOR INTERIOR DOORS DO NOT HAVE TO COMPLY WITH ADA REQUIREMENTS, EXTERIOR DOOR SETTINGS AND 25-OZA ARMS)

MODEL 281 POWERGLIDE SERIES
INSTRUCTIONS FOR INSTALLING SARGENT DOOR CLOSERS WITH REGULAR ARMS (WITHOUT HOLDER)

COVER

COVER

HINGE EDGE OF DOOR

5/8" DIA. HOLE

FOR MOUNTING SCREWS

DRILL 3/8" DIA. HOLE

MORTISE NUT HEAD TO CLEAR THE MORTISE NUT HEAD OR THE MORTISE NUT BODY TO CLEAR THE MORTISE NUT BODY.

FRAME

DOOR STOP SIDE OF DOOR

HINGE SIDE OF DOOR

MORTISE NUT HEAD MUST BE RECESSED.

SARGENT 351 SERIES SHOWN (TYPE 25-PA)

SARGENT 281 SERIES NON-SIZED ADJUSTABLE SIZES 1 THRU 6

INTERIOR DOORS

EXTERIOR DOORS

1. USE INSTRUCTIONS OR DATA SHEET PACKED WITH DOOR CLOSER FOR DIMENSIONS LOCATING THE CLOSER BODY AND FOOT FROM DOOR AND FRAME.

2. MORTISE NUT SHOWN IS DESIGNED FOR AN UNREINFORCED METAL DOOR.

3. FOR TOP JAMB AND CORNER BRACKET APPLICATIONS: THE DOOR CLOSER FOOT WILL BE ATTACHED TO THE DOOR IN A MANNER SIMILAR TO THAT SHOWN FOR MOUNTING THE CLOSER BODY.

4. FOR DOORS 2-1/4" THICK: MORTISE NUT SHOWN FOR 1-3/4" THICK DOORS WILL BE FURNISHED ALONG WITH APPROPRIATE LENGTH THRU-BOLTS.

5. FOR ASSISTANCE, CALL SARGENT AT 1-800-727-5477.

CAUTION: FAILURE TO INSTALL OR ADJUST PROPERLY MAY RESULT IN INJURY OR DAMAGE.

CAUTION: NEVER USE BACKCHECK AS A DOOR STOP.

NOTE: FOR 08 AND OLC TYPE ARMS MOUNTING ADJUSTMENTS ARE TIGHTENED.

WHERE STRONG DRAFTS EXIST, INCREASE SPRING POWER AS NEEDED BY TURNING SPRING POWER ADJUSTING SCREW CLOCKWISE.

NOTE: FOR INTERIOR DOORS DO NOT HAVE TO COMPLY WITH ADA REQUIREMENTS, EXTERIOR DOOR SETTINGS AND 25-OZA ARMS.

TABLE OF SPRING POWER ADJUSTING SCREW TURNS 

<table>
<thead>
<tr>
<th>DOOR WIDTH (INCHES)</th>
<th>DOOR WEIGHT (POUNDS)</th>
<th>FACTORY SET</th>
<th>EXTERIOR DOORS</th>
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<tbody>
<tr>
<td>40</td>
<td>150</td>
<td>15-17 CW</td>
<td>5-8 CW</td>
<td>2-7 CW</td>
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<tr>
<td>42</td>
<td>150</td>
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<td>150</td>
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</tr>
<tr>
<td>48</td>
<td>150</td>
<td>15-17 CW</td>
<td>5-8 CW</td>
<td>2-7 CW</td>
</tr>
</tbody>
</table>

**NOTE:** FOR PARALLEL APPLICATION ONLY, SPRING POWER ADJUSTMENTS ARE RECOMMENDED. WHERE STRONG DRAFTS EXIST, INCREASE SPRING POWER AS NEEDED BY TURNING SPRING POWER ADJUSTING SCREW CLOCKWISE. IF NECESSARY, REDUCE SPRING POWER BY TIGHTENING SPRING POWER ADJUSTING SCREW COUNTERCLOCKWISE.

USING MORTISE NUTS WITH SARGENT DOOR CLOSER

1. INSTALL COVER WITH TWO SCREWS AS SHOWN.

CAUTION:

NEVER USE BACKCHECK AS A DOOR STOP.

SARGENT 1430 ADJUSTMENT SCREW

1/4" SPRING POWER ADJUSTING SCREW

*IF INTERIOR DOORS DO NOT HAVE TO COMPLY WITH ADA REQUIREMENTS, EXTERIOR DOOR SETTINGS AND 25-OZA ARMS*

PARALLEL APPLICATION ONLY

SERIES SIMILAR) SHOWN. (OTHER SERIES CLOSER

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IMPORTANT: USE ALTERNATE MOUNTING If DOOR CAN
OPEN BEYOND LIMITS SHOWN FOR STANDARD
MOUNTING USE MOUNTING BRACKET AS DRILL THROUGH TEMPLATE.

A INSTALL MOUNTING BRACKET WITH ARROW POINTING UP FOR BOTH RH & LH DOORS AND INSTALL CLOSER WITH SPRING ADJUSTING SCREW AWAY FROM HINGE.

B ATTACH FOOT TO FRAME WITH PIVOT AWAY FROM HINGE.

C INSTALL ARM INTO SPINDLE AND SECURE WITH SLEEVE AND WASHER AS SHOWN. INSTALL USE INDEX MARK ON SPINDLE AND WASHER AS SHOWN. RIGHT HAND DOOR SHOWN. LEFT HAND DOOR OPPOSITE.

D INSTALL CLOSER WITH SPRING ADJUSTMENT SCREW AWAY FROM HINGE.

R E M O T E B R A C K E T S F R O M S E L F A D H E S I V E TAPE AND REMOVE BACKING

SHEET ENCLOSED.


DRILL & TAP AND USE SCREWS PROVIDED OR USE MORTISE NUTS WHEN REQUIRED.

IMPORTANT: USE ALTERNATE MOUNTING IF DOOR CAN OPEN BEYOND LIMITS SHOWN FOR STANDARD MOUNTING.

THIS DIMENSION IS TAKEN FROM HINGE EDGE OF DOOR FOR INVISIBLE HINGES.

Hinge dimension is reduced to 3/8” CENTERHUNG OR INVISIBLE HINGES

LEFT HAND DOOR SHOWN, RIGHT HAND DOOR OPPOSITE.

INSTALL CLOSER WITH SPRING ADJUSTING SCREW TOWARDS HINGE.

INSTALL MOUNTING BRACKET WITH ARROW POINTING DOWN FOR BOTH RH & LH DOORS AND FOOT SHOULD BE MOVED ACCORDINGLY.

ALTERNATE MOUNTING IS COMPLIANT DOORS BUTTs, OFFSET PIVOTS, SWING CLEAR, EDGE OF DOOR FOR INVISIBLE HINGES.

ASSEMBLING TO SPINDLE PROPERLY IF MAIN ARM IS NOT INDEXED CORRECTLY.

CAUTION: DOOR CLOSER WILL NOT OPERATE TOP VIEW

LEFT HAND DOOR SHOWN, RIGHT ARM NO INDEX MARK ON SPINDLE ALIGNED AS SHOWN. SECURE WITH SCREW AND WASHER AS SHOWN.

INDEX MARK ON SPINDLE ALIGNED AS SHOWN. SECURE WITH SCREW AND WASHER AS SHOWN.

INSTALL FOOT TO FRAME STOP. INSTALL CLOSER WITH SPRING ADJUSTING SCREW AWAY FROM HINGE.

INDEX MARK ON SPINDLE ALIGNED AS SHOWN. SECURE WITH SCREW AND WASHER AS SHOWN.

INSTALL CLOSER WITH SPRING ADJUSTMENT SCREW AWAY FROM HINGE.

INSTALL MOUNTING BRACKET WITH ARROW POINTING UP FOR BOTH RH & LH DOORS AND INSTALL CLOSER WITH SPRING ADJUSTMENT SCREW AWAY FROM HINGE.

INSTALL CLOSER TO SPINDLE AND SECURE WITH INDEX MARK ON SPINDLE ALIGNED AS SHOWN.

INSTALL FOOT TO FRAME STOP.

RIGHT HAND DOOR SHOWN, LEFT HAND DOOR OPPOSITE.

IMPORTANT: USE ALTERNATE MOUNTING IF DOOR CAN OPEN BEYOND LIMITS SHOWN FOR STANDARD MOUNTING.

MORTISE NUTS WHEN REQUIRED.

RIGHT HAND DOOR SHOWN, LEFT HAND DOOR OPPOSITE.

IMPORTANT: USE ALTERNATE MOUNTING IF DOOR CAN OPEN BEYOND LIMITS SHOWN FOR STANDARD MOUNTING.

MORTISE NUTS WHEN REQUIRED.

STOP 1/2" HIGH.

STOP 1/2" HIGH.

STOP 1/2" HIGH.

STOP 1/2" HIGH.

STOP 1/2" HIGH.

STOP 1/2" HIGH.

STOP 1/2" HIGH.

STOP 1/2" HIGH.
IMPORTANT: USE ALTERNATE MOUNTING IF DOOR CAN OPEN BEYOND LIMITS SHOWN FOR STANDARD MOUNTING.

THIS DIMENSION IS TAKEN FROM HINGE EDGE OF DOOR FOR INVISIBLE HINGES.

INSTALL CLOSER WITH SPRING ADJUSTMENT SCREW AWAY FROM HINGE.

INSTALL MOUNTING BRACKET WITH ARROW POINTING UP FOR BOTH RH & LH DOORS AND ATTACH FOOT TO FRAME WITH PIVOT TYPE ARM.

RIGHT HAND DOOR SHOWN. LEFT HAND DOOR OPPOSITE.

REMOVABLE BACKING FROM SELF ADHESIVE TAPE AND USE BRACKET AS DRILL THROUGH TEMPLATE.

ATTACH ARM WITH INDEX MARK ON SPINDLE ALIGNED AS SHOWN.

PROPERLY IF MAIN ARM IS NOT INDEXED CORRECTLY.

ATTACH FOOT TO FRAME WITH PIVOT ARM FROM FRAME.

NOTE: USE MOUNTING BRACKET AS DRILL THROUGH TEMPLATE.

CAUTION: DOOR CLOSER WILL NOT OPERATE PROPERLY IF MAIN ARM IS NOT INDEXED CORRECTLY.

IMPORTANT: USE ALTERNATE MOUNTING IF DOOR CAN OPEN BEYOND LIMITS SHOWN FOR STANDARD MOUNTING.

 Bears Index Mark on Spindle. Assembly as Shown

RIGHT HAND DOOR SHOWN. LEFT HAND DOOR OPPOSITE.

This dimension is taken from hinge edge of door for invisible hinges.

Install closer with spring adjustment screw away from hinge.

Install mounting bracket with arrow pointing up for both Rh & lh doors and attach foot to frame with pivot arm from frame.

Rim edge of door for invisible hinges.

Main arm is not indexed correctly.

Do not use this mounting for overhead holders. P4a bracket is used for flush frame and door conditions.

Use mounting bracket as drill through template.

Optional arms for mounting see data sheet enclosed.

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Model 281 Powerglide Series
Instructions for installing Sargent Door Closers with Regular Arms (without holder)

1. Before installation, familiarize yourself with the Sargent Door Closer being installed. The model number is printed on the cover. Be sure the model number matches the model number on the cylinder castle.

2. Sargent Door Closers are intended for use on interior doors. For exterior doors and high security doors, consult local codes and your local law enforcement agencies. For best performance, install door closer in a location that is free of obstructions and that will not interfere with the normal operation of the door.

3. If necessary, adjust spring power by turning adjusting screw clockwise to increase spring power or counterclockwise to decrease spring power. For best performance, adjust spring power to match the door weight.

4. Adjust latch engagement by turning latch engaging screw clockwise to increase latch engagement or counterclockwise to decrease latch engagement. For best performance, adjust latch engagement to match the door weight.

5. Adjust backcheck by turning backcheck adjusting screw clockwise to increase backcheck or counterclockwise to decrease backcheck. For best performance, adjust backcheck to the door weight.

6. Adjust parallel arm by turning parallel arm adjusting screw clockwise to increase parallel arm or counterclockwise to decrease parallel arm. For best performance, adjust parallel arm to match the door weight.

7. After installation, test the door closer to ensure that it is operating correctly. If necessary, adjust the door closer as described above.

8. Visit Sargent Manufacturing Company's website for more information and resources on door closer installation and maintenance.

Sargent Manufacturing Company
1430 Sargent Powerglide Avenue
Van Nuys, CA 91405
1-800-874-1161
sales@sargent.com

www.sargent.com
**FINAL ADJUSTMENT AND REGULATING PROCEDURE**

1. Use instructions or data sheet packed with door closer for dimensions locating the closer body and pivot points of door.

2. **MOUNTING HOLE SHOWN AS DESIGNED FOR UNREINFORCED DOORS.**

3. **FOR TOP JAMB AND CORNER BRACKET APPLICATIONS:**
   - **NO. 3** FOR HIGH STRUCTURE OR INDUSTRIAL APPLICATIONS, **NO. 4** FOR DOORS 2-1/4" THICK: MORTISE NUT SHOWN FOR 1-3/4" THICK DOORS WILL BE FURNISHED ALONG WITH APPROPRIATE LENGTH THRU-BOLTS.
   - **SEE NOTE #5 FOR 2-1/4" THICK DOORS**

4. DOOR CONSTRUCTION MUST PROVIDE A BRIDGE TYPE REINFORCEMENT TO PREVENT THE DOOR RAIL FROM COLLAPSING WHEN THRU-BOLTS ARE FASTENED.

5. **NOTE:** FOR USE ON HIGH STRUCTURE OR INDUSTRIAL APPLICATIONS, **NOTE:** For use on high structure or industrial applications.

6. **SEE NOTE #6 FOR 2-1/4" THICK DOORS**

7. **INTERIOR DOORS DO NOT HAVE TO COMPLY WITH ADA REQUIREMENTS, EXTERIOR DOOR SETTINGS ARE RECOMMENDED.**

8. **WHERE STRONG DRAFTS EXIST, INCREASE SPRING POWER AS NEEDED BY TURNING SPRING ADJUSTING SCREW COUNTER-CLOCKWISE.**

9. **IF INTERIOR DOORS DO NOT HAVE TO COMPLY WITH ADA REQUIREMENTS, EXTERIOR DOOR SETTINGS ARE RECOMMENDED.***

10. **IF INTERIOR DOORS DO NOT HAVE TO COMPLY WITH ADA REQUIREMENTS, EXTERIOR DOOR SETTINGS ARE RECOMMENDED.***

11. **SEE DATASHEETS ENCLOSED**

12. **INSTRUCTIONS FOR INSTALLING SARGENT DOOR CLOSERS WITH REGULAR ARMS (WITHOUT HOLDER)**

13. **INSTRUCTIONS FOR INSTALLING SARGENT DOOR CLOSERS WITH REGULAR ARMS (WITHOUT HOLDER)**

14. **PARALLEL APPLICATION ONLY**

**PARALLEL APPLICATION ONLY**

- **IF SPRING SCREWS DO NOT TURN HANDY WITH MORTISE NUTS, EXTERIOR DOOR SETTINGS ARE RECOMMENDED.**
- **ADJUST SPRING POWER AS NEEDED BY TURNING SPRING ADJUSTING SCREW COUNTER-CLOCKWISE.**
- **IF NECESSARY, REDUCE SPRING POWER BY TURNING SPRING ADJUSTING SCREW COUNTER-CLOCKWISE.**

**STANDARD & TOP JAMB APPLICATIONS**

- **FOR ASSISTANCE, CALL SARGENT AT 1-800-727-5477.**
- **USE** SARGENT M ANUFACTURING COMPANY IS PROHIBITED.


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