

# DST36-ADA Full Height ADA Swing Gate

# Service & Installation Manual





Note: Successful installation depends on reading this manual.

Important Note: Please keep this service manual after installation. If an installation is done by a construction company or outside installer, please pass this book along to the end user.

# Full Height Aluminum ADA Door

Manual or Electronic Passage Gate

| Interior Application

DST36-ADA

The DST36-ADA is a solution for projects requiring an aesthetically pleasing interior security door. This self-closing unit provides wheelchair accessible 36" passage width (overall width 40"). It is a "heavy-duty" stile and rail door that can withstand high traffic and abuse. Its low voltage strike lock can be used mechanically or electronically depending on your needs. The DST36-ADA is normally paired with the DST80-Single, DST80-Tandem, DSP60 or DSRD70 aluminum-polycarbonate turnstile portals.



DST36-ADA



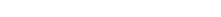
Sample Application: DST80-T and DST36-ADA door



Hydraulic door closer included



Optional Push Bar available for Free exit configurations. Can be ordered with a battery alarm or electronic switch if needed



# Full Height Aluminum ADA Door

## Manual or Electronic Passage Gate

# | Interior Application

## DST36-ADA

#### Applications:

Ideal for controlling orderly flow of foot traffic in indoor/outdoor settings where ADA passage width is required.

### **Product Features:**

Materials & Finishes:

- · Heavy duty anodized aluminum extrusions
- 1/4" tempered glass
- Door handle
- <u>Finish:</u> Standard anodizing finish is clear. Also avail able in dark bronze

Hardware:

- <u>Hydraulic Closer:</u> Norton 9300 Series with aluminum finish
- Electronic Strike: Adams Rite 7100 Series, 24VDC
- <u>Deadlatch:</u> Adams Rite 4510 Series with 1.5" Backset
- <u>Cylinder:</u> Schlage C keyway standard (SFIC avail able)

#### **Design & Construction:**

- Designed for secure operation with aesthetics in mind
- Minimally exposed hardware
- Continuous hinge

#### **Options:**

- Magnetic lock (replaces strike)
- Push buttons (wired or wireless)
- Motorized door opener
   (Norton 5730 Low Energy Operator, aluminum)
   (Interior applications only)
   (Requires 110V AC)
- Push to exit panic bar by Adams Rite 8400, aluminum

#### **Dimensions:**

- Size of opening (pedestrian clearance): 36" (914.4mm)
- Interior Height: 86.5" (2197.1mm)
- Exterior Height: 91" (2311.4mm)
- Overall Width: 40" (1016mm)

\* Dimensions are subject to change without notice

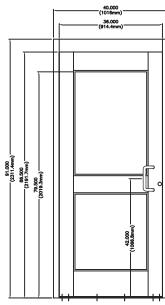
#### Warranty:

Units are warranted against defects in materials and workmanship for a period of one year from date of delivery. See warranty information for specific details.

Pairs well with our full-height aluminum turnstiles (see model DSRD70, DSP60, DST80-S, and DST80-T)



DSP60 and DST36-ADA door



#### \* Dimensions are approximate

#### **Electrical Specifications:**

UL Listed Electronic Strike: Input Voltage: 24VDC Input Current: 170 mA

#### Standards and Codes:

Austenitic stainless steel: ASTM A240, A249, A276

Hot rolled steel: AISI C-1020, AISI C-1018

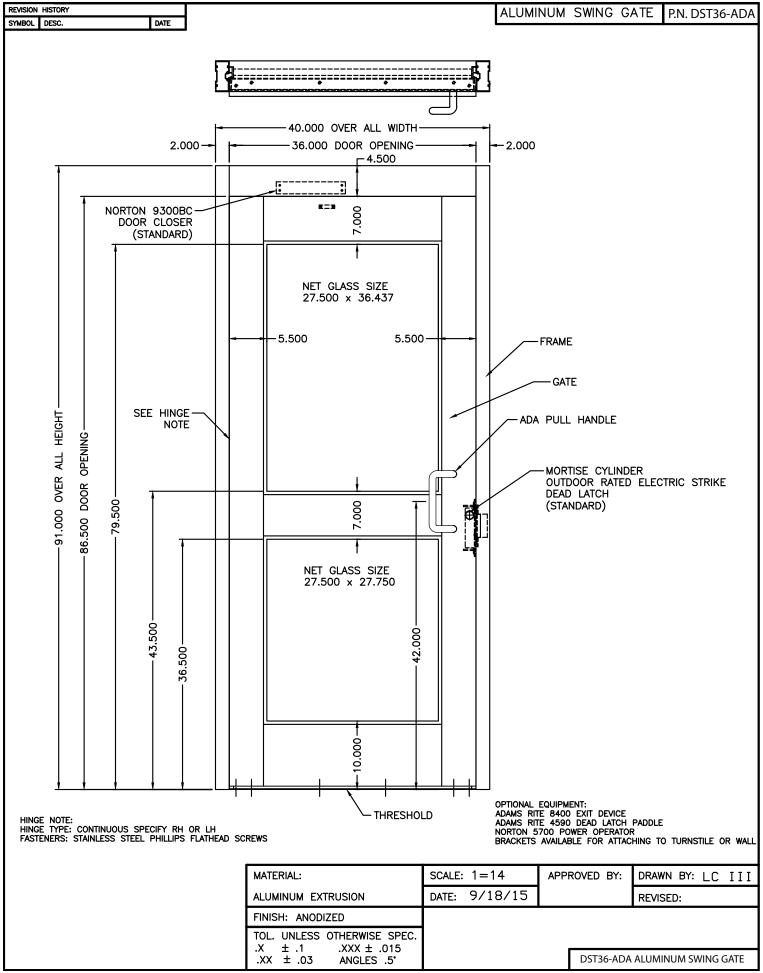
Hot dipped galvanizing: ASTM A-143, ASTM A-153-80

All fasteners provided meet IFI ANSI/ ASME Fastener Standards

American Welding Society (AWS) Standard D 1.1



DSRD70 and DST36-ADA door



Designed Security, Inc - 1402 Hawthorne Street, Bastrop Texas 78602 - (800) 272-3555

# Pre-installation Tips for the DST36-ADA Full Height ADA Gate

Before installing the DST36-ADA Gate, make sure to review these pre-installation tips to ensure a successful installation.

Before you get started:

If you are electronically locking or unlocking the gate, be aware of the various methods to accessing the electronic strike before installing. Details are provided later in this manual.

Although the strike is field reversible, each gate comes pre configured to lock or open upon power failure. We configure these gates based on how they were ordered. Manual gates will always need to have the strike configured as fail lock.

It is <u>crucial</u> that the frame is installed squarely. The provided floor plate on the gate helps to ensure a square installation, but anchoring to unlevel concrete may throw this off.

Note: Failure to install the frame square can result in the gate failing to lock properly.

# Installation Instructions for the DST36-ADA Full Height Gate

1. Place gate into entry way where it will be installed.

2. Screw the floor plate to the floor using 3/16" x 2.5" min. length Tapcon<sup>™</sup> screws.

3. Utilizing the support brackets located near the top, secure gate to nearby turnstile and/or adjoining wall / structure with 3/8" x 1.5" bolts.

4. Make 24VDC electrical connections to the electronic strike, if required.

# ELECTRIC STRIKES

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#### VOLTAGE

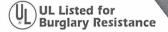
Available in 12, 16 or 24 volt AC and DC. DC and AC Continuous units are silent, AC intermittent units "buzz" on operation.

CURRENT DRAW/AMPS		
Volts	AC Int.	DC or AC Cont.
12	1.42	.33
16	1.03	.22
24	.74	.17

**7100** Flat Faceplate for Aluminum Jambs

**7101** *Radiused Faceplate for Aluminum Stiles* 

ANSI/BHMA Type EO9321 (Grade 1) for Adams Rite or Cylindrical Latches



## **V** Case

Approx. 1" x 3-3/8" x 1-5/8" deep. Zinc-aluminum alloy.

## ▼ Strike Lip

Basic 7100 strike has lip of proper length for 1-3/4" thick door that closes flush with jamb edge. Where door thickness or jamb shape differs from this standard relationship, extended lip available, specified by last dash number. (Not available on 7101.)

# ▼ Fail Safe/Fail Secure

Field convertible from one mode to the other. However, AC intermittent solenoid must not be used continuously in either.

# ▼ Strike Opening

5/8" x 1-7/16" x 1/2" deep. Bolt retainer jaw is stainless steel. Strike accepts bolt of any Adams Rite 4700 Series deadlatch or cylindrical latches shown with model 7140. See 7160 and 7170 strikes for use with other make mortise latches.

# ▼ Faceplate

Measures 1-1/4" x 4-7/8". 7100 has flat faceplate; 7101 is radiused to match nose on inactive leaf in a pair of narrow stile glass doors. Available in a wide range of architectural finishes.

## **V** Function

Remote electrical control of any door equipped with an Adams Rite Series 4500 or 4700 (or similar) deadlatch or "key-in-knob" sets. Electrical actuation unlocks strike jaw, releasing latchbolt so door can be opened without operating latch itself. Extremely compact mechanism fits into aluminum jamb (or opposing door) sections as shallow as 1-5/8". Fits prep for 7500/7800/7000 Series.

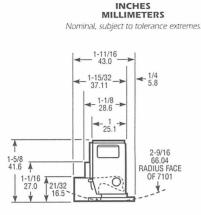


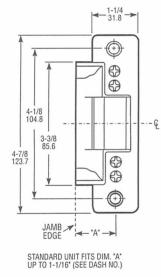
260 Santa Fe Street Pomona, California 91767 (800) 872-3267 Fax:(800) 232-7329 www.adamsrite.com

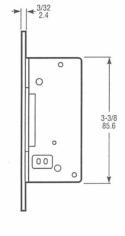


# 7100, 7101 Electric Strike

### DIMENSIONS



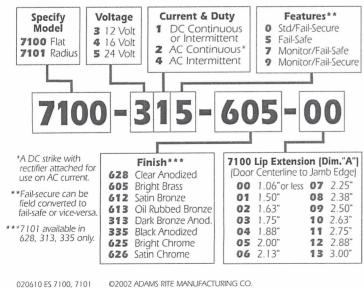




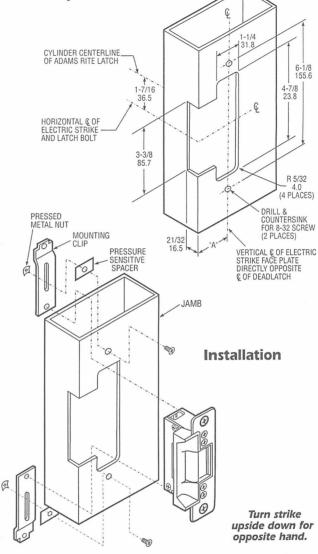
MOUNTING BRACKETS FURNISHED

## HOW TO ORDER

Specify quantity and the following information. Order 4603 Rectifier and/or 4605 or 4606 Transformer separately. (4603 included with AC Cont.)



# INSTALLATION Jamb Preparation



#### **STANDARD PACKAGE**

Individually boxed with mounting screws, mounting brackets and adhesive shims to accommodate jamb or stile extrusion thickness greater or less than nominal 1/8 inch.

#### **OPTIONS**

Available with two monitoring signal switches which sense whether latch bolt is in strike and whether strike jaw is blocked. Choice of voltage in AC and DC for intermittent or continuous duty. Series 7100 (flat) available with extended strike lip (see chart). Specify assembled for either fail-secure (locked when unpowered) or fail-safe (locked when powered) operation, but can be field-converted to the other mode.

**4603 Rectifier -** Converts AC to DC, installs in low voltage line between transformer and strike. Rated 2 amps. (200 PIV).

**4605 Transformer -** Converts 120VAC to 24VAC. Rated 40 Volt-amp output assures plenty of power for strike release. Patented mounting bracket fits in knockout hole of standard junction boxes.

**4606 Transformer -** Plug-in version for standard wall outlet. See separate specification sheet for more information on Strike options.

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## Changing From Fail-Safe to Fail-Secure & Vice-Versa:

- 1) Remove faceplate, subcover (2), & cover (1)
- 2) Remove latch (7), blocking arm (6), blocking arm return spring (16), & retainer plate (15)

Changing From Fail-Secure to Fail-Safe:

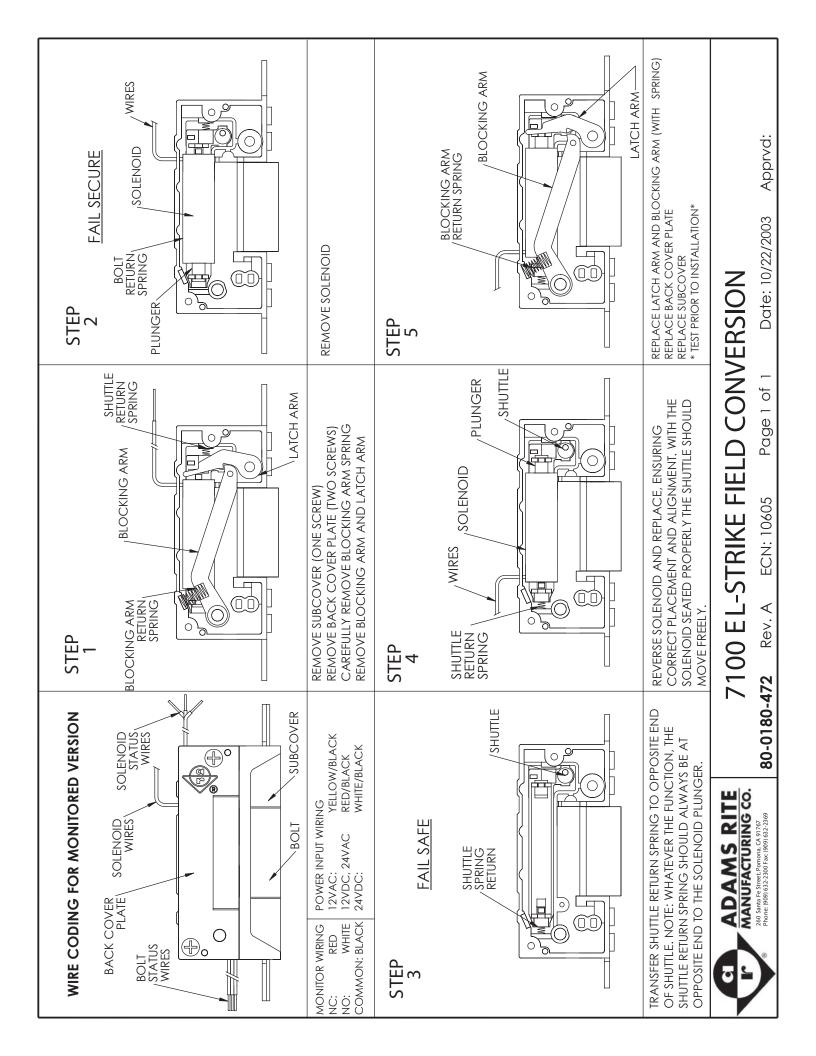
- 1) With bolt facing you remove solenoid (3), plunger (4), & shuttle return spring (5).
- 2) Place shuttle return spring (5) on left-handside of shuttle (17). Place solenoid and plunger facing the side opposite of shuttle return spring into groove on the shuttle. (See page three for diagram)
- 3) Place retainer plate on top of solenoid and place latch, blocking arm & blocking arm return spring in original position.

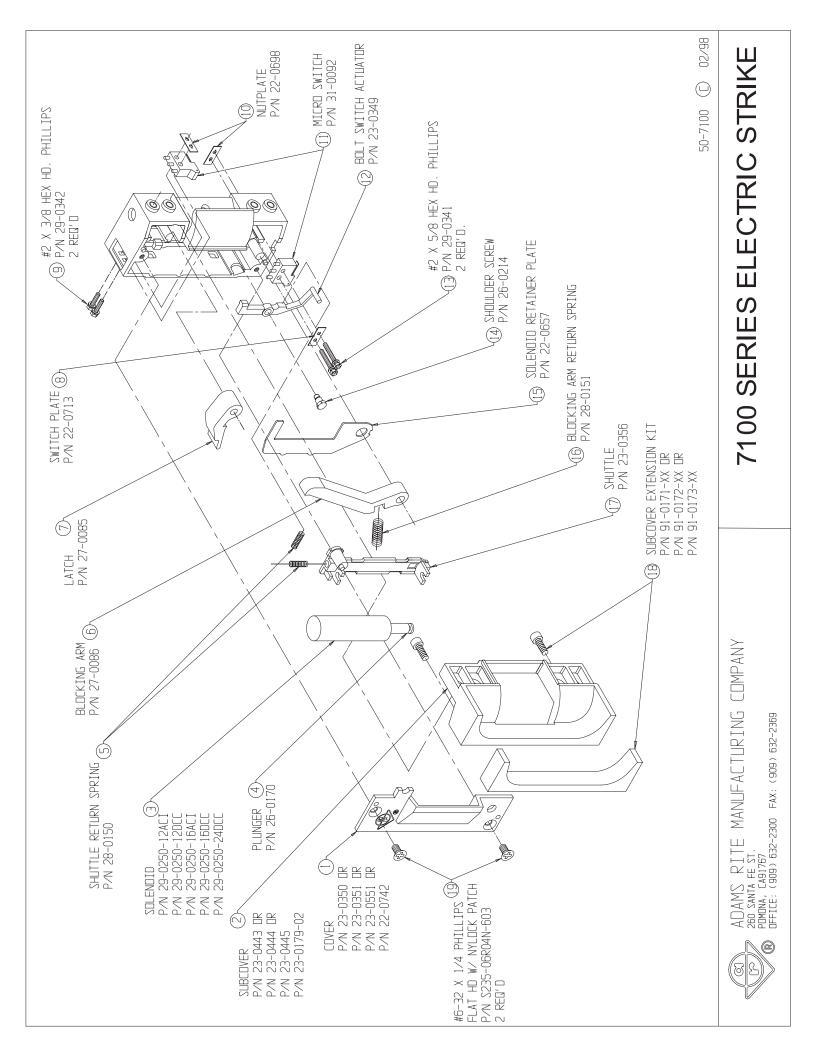
Note: Fail-safe must be continuous duty only.

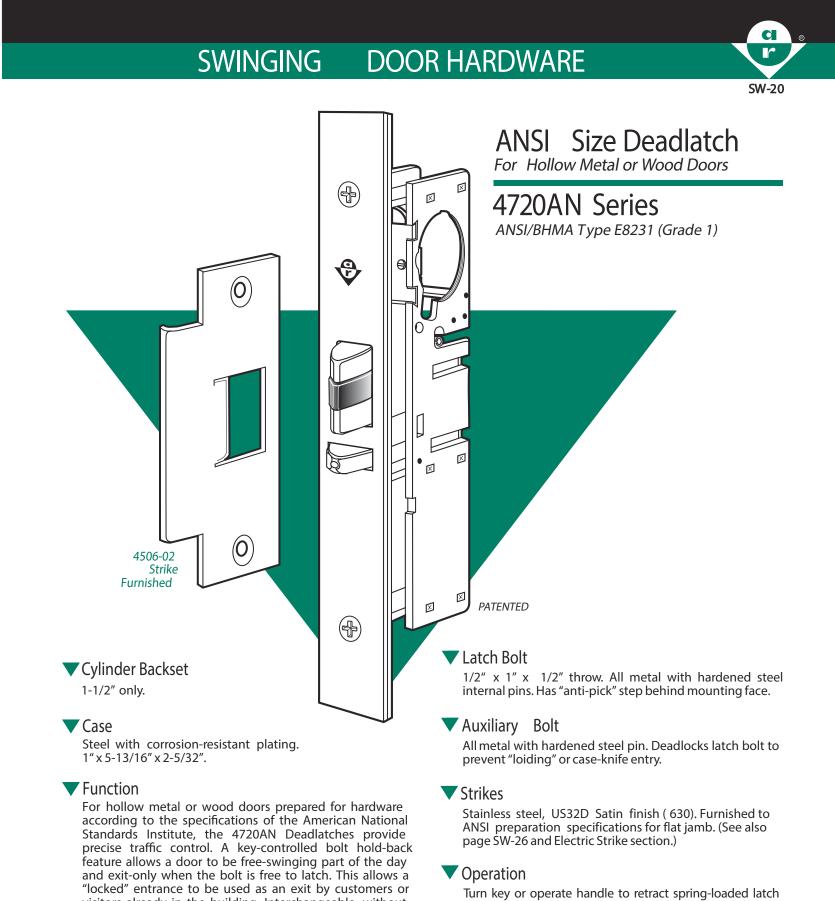
Changing from Fail-safe to Fail-secure:

- 1) With bolt facing you remove solenoid (3), plunger (4) & shuttle return spring (5).
- 2) Place shuttle return spring (5) on right hand side of shuttle (17). Place solenoid and plunger facing the side opposite of shuttle return spring into groove on shuttle. (See page three for diagram)
- 3) Place retainer plate on top of solenoid and place latch, blocking arm & blocking arm return spring in original position.

Faceplate, subcover & cover can now be added to close strike.







bolt. To hold bolt retracted, push it in and secure by reverse

visitors already in the building. Interchangeable, without stile or jamb modification, with any MS1850SN Deadbolt of same faceplate shape. Replaces 4520ANSI Deadlatch.

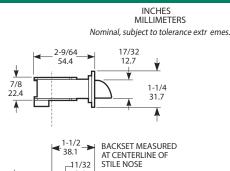
turn of key (see back page). Uses any standard mortise cylinder with MS<sup>®</sup> cam (see page SW-28).



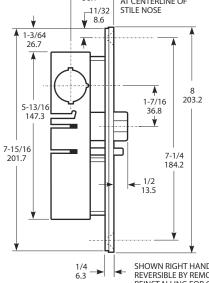
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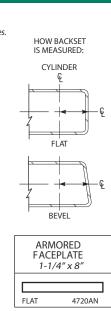
# 4720AN Series Deadlatch

## DIMENSIONS



C







CAM TOLERANCE: Cylinder Cam

4

.800 20.32

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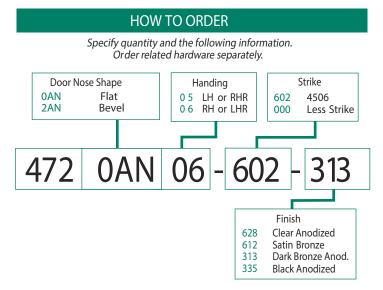
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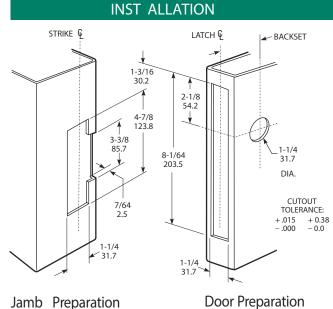
→ <sup>1</sup> ← .182 4.62

CYLINDER

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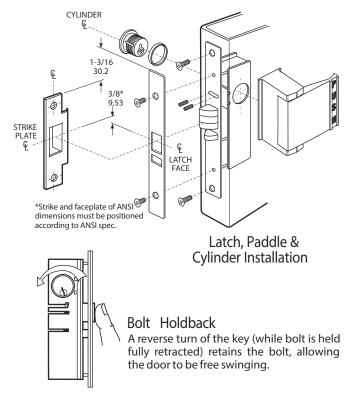
.120 R 3.0 4720AN Series Deadlatches are operable by any standard 1-5/32" diameter mortise cylinder with special MS<sup>°</sup> cam dimensioned as shown. Cylinders with MS<sup>°</sup> cams can be readily obtained from most cylinder manufacturers. See page SW-28 for cylinder make and trim ring information.





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### OPTIONS

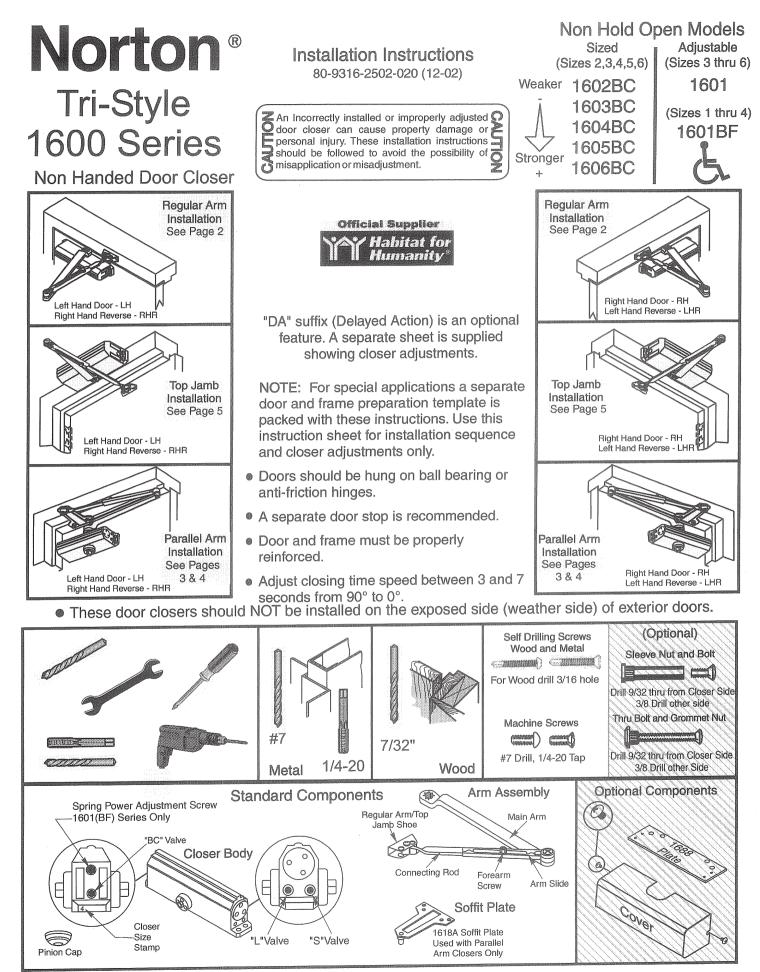
Door Nose Shape, Finish, Strike and Handing must be specified when ordering. For Handles, see page SW-25 & 26. For Paddles,

020610 SW 4720AN SERIES ©2004 ADAMS RITE MANUF ACTURING CO.

see page SW-27.

#### STANDARD PACKAGE

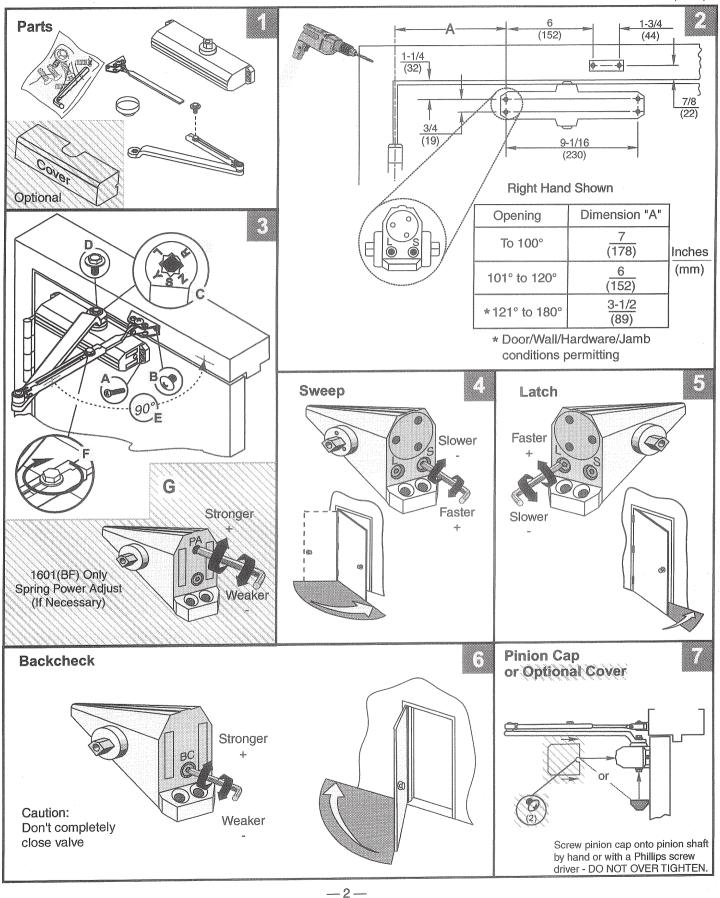
Individually boxed with strike and machine screws for mounting. Cylinders, paddle or handle available at extra cost. Shipping weight: 1-1/4 lbs. Also available in a 20 unit pack for volume users.



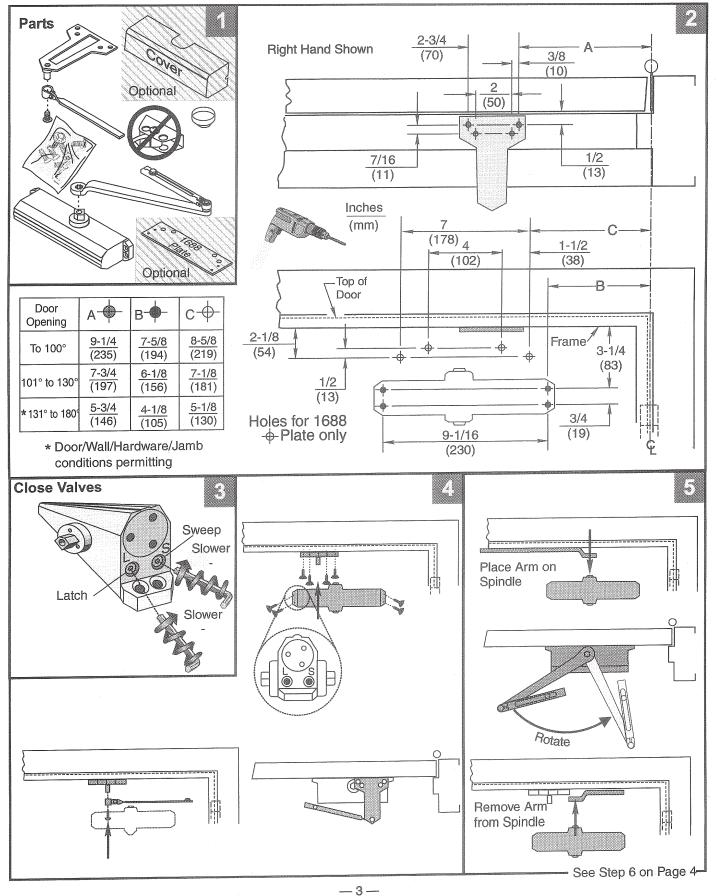
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# Non Hold Open Door Closers — Regular Arm

80-9316-2502-020 (12-02)

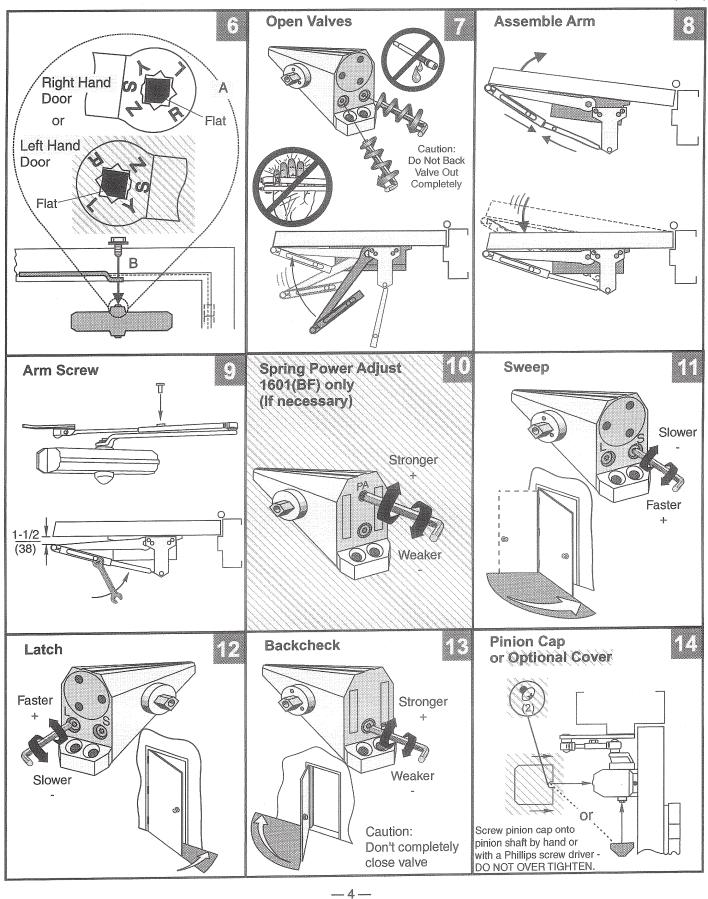


## Non Hold Open Door Closers — Parallel Arm 80-9316-2502-020 (12-02)

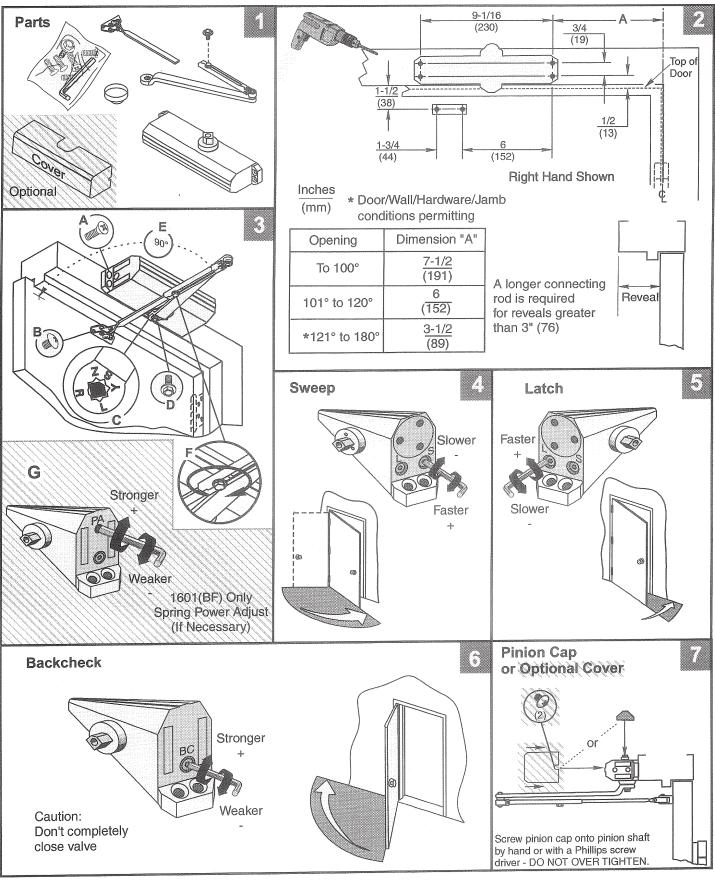


Non Hold Open Door Closers — Parallel Arm

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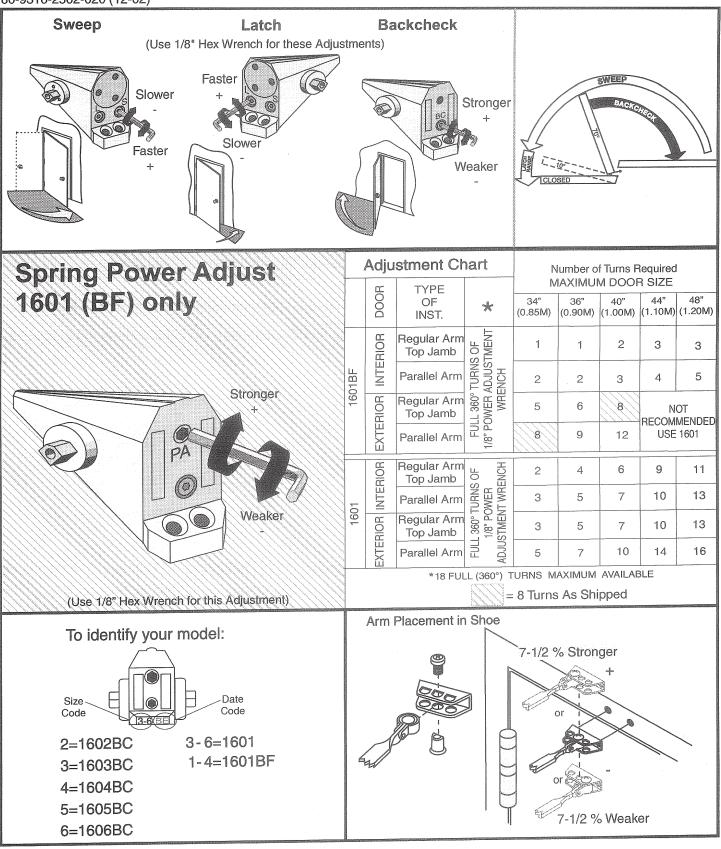


Non Hold Open Door Closers — Top Jamb Arm 80-9316-2502-020 (12-02)



# 1600 Series Adjustments Page

80-9316-2502-020 (12-02)



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CON Door Controls

1902 Airport Road, Monroe, NC Telephone:(800)-438-1951; Fax: (800)-338-0965

www.nortondoorcontrols.com

ABLOY Group Co.



# Warranty Information

The DSI Product you have purchased is warranted to be free of defects in material and workmanship when properly installed, used, and maintained according to instructions. DSI will, for a period of one (1) year, three (3) years for Optical Turnstiles, from date of purchase repair or replace any part which, upon our examination, prove to be defective under normal use. **DSI SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDEN-TAL, CONSEQUENTIAL LOSS, OR DAMAGE ARISING OUT OF THE FAILURE OF THIS DEVICE.**