



5010 Series

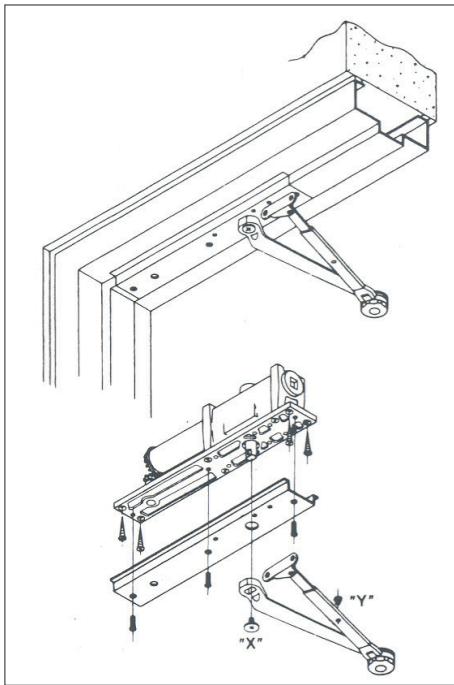
13187

LCN[®]

Installation Instructions

1 Installation

- 1a Make sure the hand of the closer and the door correspond. The hand of the closer is stamped on the finish plate. The hand of the closer cannot be reversed.



- 1b For ADA applications use templates that allow maximum door opening.

- 1c If the frame is not prepared for the closer, mortise to dimensions are shown on attached templated for the desired degree of opening.

- 1d Install the closer in a prepared frame with the fasteners provided. Replace the finish plate and be sure that the plate is flush with the soffit. Place the arm on the shaft and push up into position. Insert the arm screw "X."

- 1e Close the door and install the shoe to the door as shown on the template. Open the door slightly and insert the rod in the forearm. Close the door. Starting with the main arm at a right angle to the door, move the arm toward the latch until holes in rod and tube line, insert and tighten screw "Y."

CAUTION

Improper installation or regulation may result in personal injury or property damage. Follow all instructions carefully.

For questions contact LCN at
877-671-7011.

Customer Service

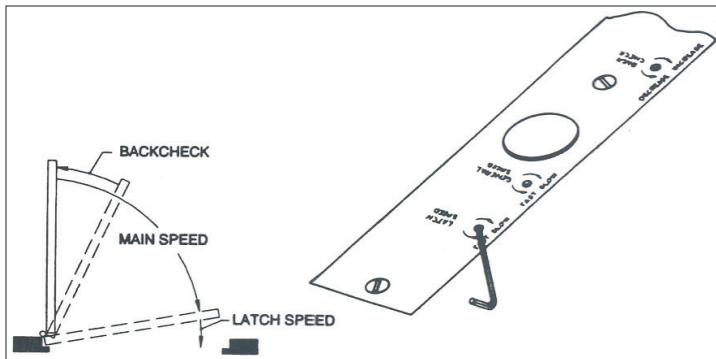
1-877-671-7011

www.allegion.com

2 Regulation

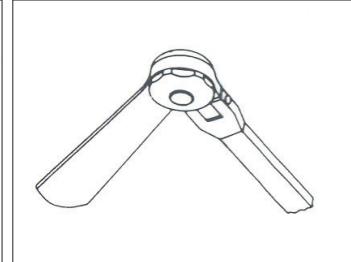
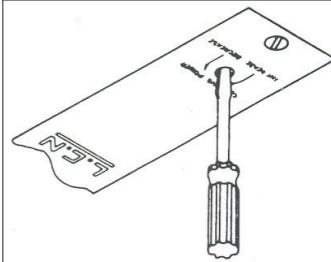
Door closer regulation is preset at the factory. Adjust as follows only if necessary: A "normal" closing time from a 90° open position is 5 to 7 seconds, evenly divided between main speed and latch speed (see figure below). Use a $\frac{3}{32}$ " hex wrench to adjust the regulating screws. To slow the main speed of the door, turn regulating screw closest to shaft clockwise. To slow latch speed, turn regulating screw closest to hinge clockwise. **BACKCHECK:** To increase backcheck intensity, turn regulating screw closest to the latch clockwise.

DO NOT USE AN ABRUPT BACKCHECK. DO NOT USE THE DOOR CLOSER AS A DOOR STOP.



3 Adjustments

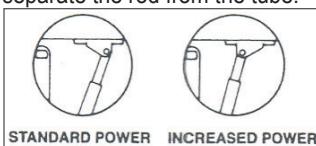
- 3a Adjust the **CLOSING POWER** only if more power is needed. The closer is shipped with minimum closing power preset. To increase the CLOSING POWER turn the spring adjusting screw clockwise. Maximum adjustment 36 turns.



- 3b To adjust the 90° hold-open arm (up to 100° opening) with the hold-open features is at the elbow. The arm is preset to hold the door open at 90°. To adjust: Loosen the hold open nut. Open the door a few degrees before the desired hold open position, and tighten the hold open nut securely.

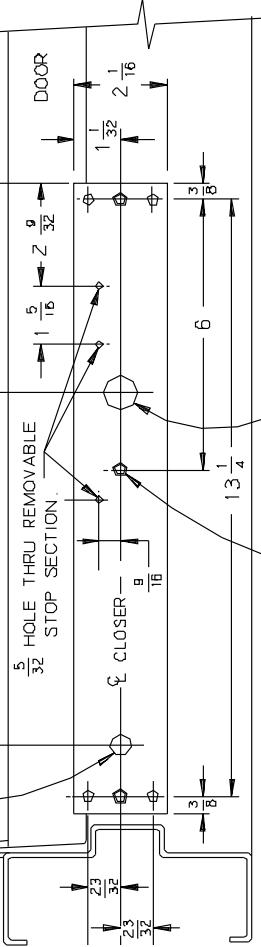
- 3c To adjust for additional closing power at the latch (Regular & 90° H.O. Only):

- Remove screw "Y" (Step 4), and separate the rod from the tube.
- Remove the shoe screws and turn the shoe over.
- Reassemble the arm.



5011 } NON HOLD OPEN (UP TO 100°)
 5012 }
 5013 } H-90° (UP TO 100°)
 5014 }
 5015 }
 5016 }

AUXILIARY STOP RECOMMENDED
 LEFT HAND DOOR AND CLOSER 6 / 96
 SHOWN. RIGHT HAND OPPOSITE

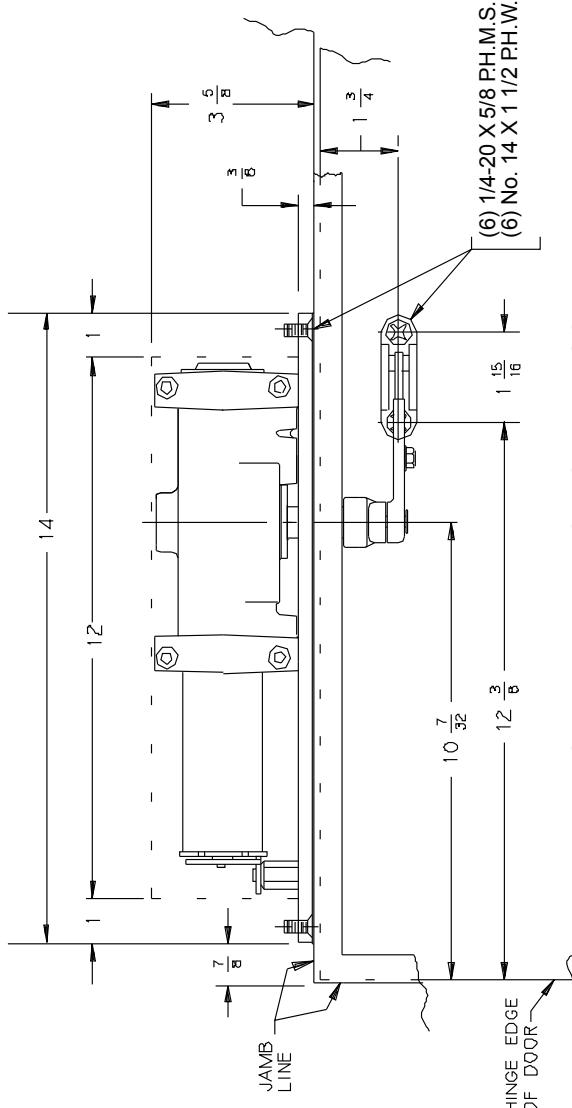


LOCATION OF No. 8-32 TAPPED HOLES
 IN CLOSER FOR MOUNTING
 REMOVABLE FRAME SECTION
 (3 HOLES).

FRAME PREPARATION MAY BE IN
 WOOD, HOLLOW METAL OR ALUMINUM
 TUBE. CONSULT FACTORY IF FRAME
 DETAIL IS DIFFERENT.

NOTES :

- 1 - FOR DOOR OPENINGS GREATER THAN 100° SEE OTHER SIDE OF THIS TEMPLATE.
- 2 - MAXIMUM STOP THICKNESS $\frac{5}{8}$ ".
- 3 - MAY BE USED WITH CONCEALED IN DOOR AUXILIARY HOLDER. MAX. OPENING 95° USE THIS SIDE ONLY
- 4 - REINFORCING PER ANSI/SDI-100 RECOMMENDED FOR HOLLOW METAL DOOR AND FRAMES.
- 5 - THIS PRODUCT REQUIRES A 4" MINIMUM FRAME HEADER CONSULT FACTORY IF HEAD JAMB IS LESS THAN 4".



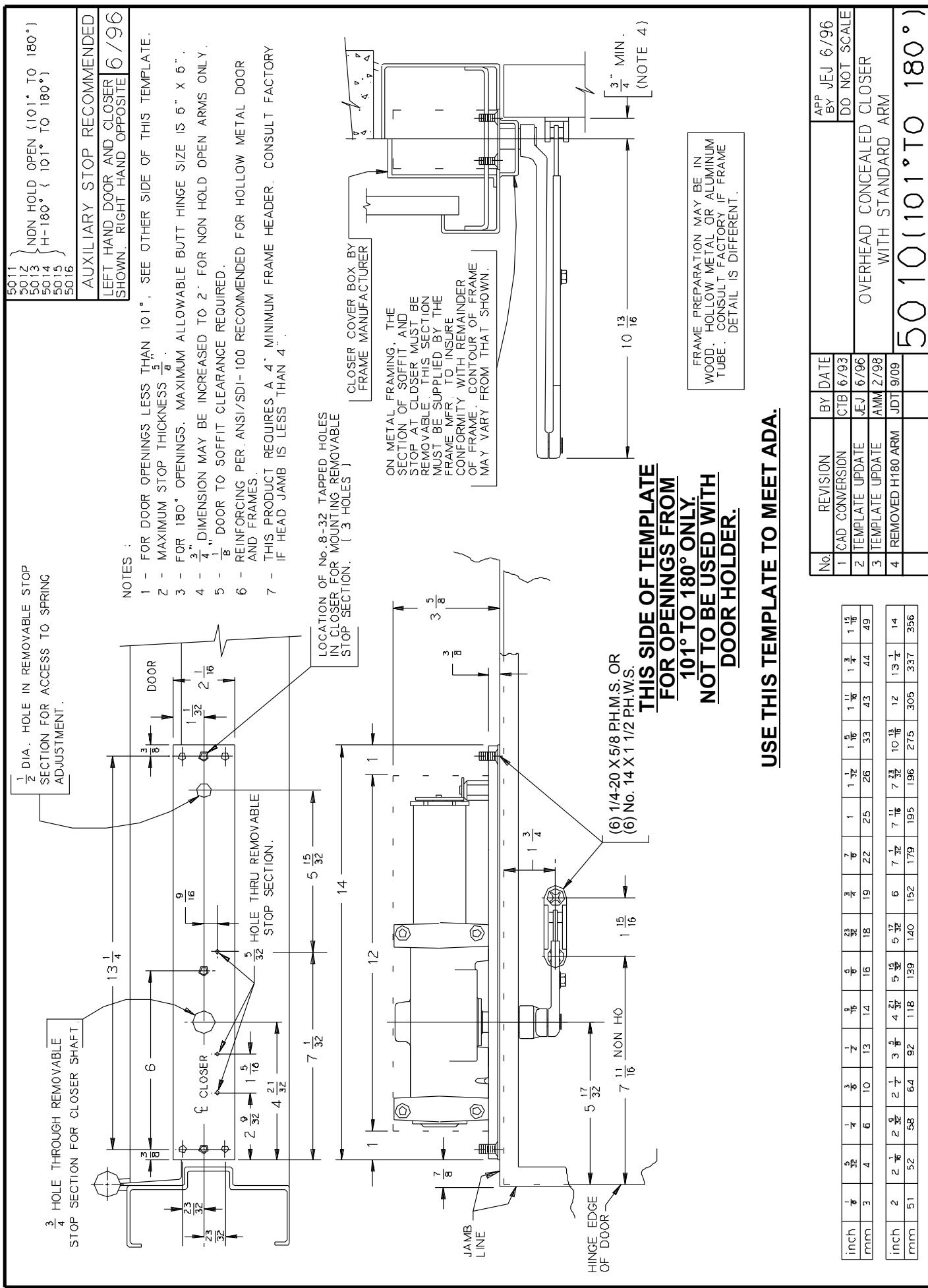
**THIS TEMPLATE FOR OPENINGS
 UP TO 100° ONLY.**

NOT TO BE USED TO MEET ADA.

inch	5/32	1/4	3/8	1/2	5/8	6/8	7/8	1	1 1/32	1 1/16	1 1/4	1 15/16
mm	4	6	10	13	14	15	16	19	20	25	33	44
inch	2	2 1/16	2 3/8	3 1/8	4 1/4	5 13/16	6	7 1/2	10 7/8	10 15/16	12 1/8	12 1/4
mm	51	52	58	92	118	139	152	179	260	275	314	337
inch												356
mm												

APP BY JEJ 6/96	DO NOT SCALE
1 CAD CONVERSION	CIB 6/93
2 TEMPLATE UPDATE	JEJ 6/96
3 TEMPLATE UPDATE	AMM 2/98

OVERHEAD CONCEALED CLOSER
 WITH STANDARD ARM
5010 (UP TO 100°)



ALL LADY STOD RECOMMENDED

AUXILIARY STOP RECOMMENDED
LEFT HAND DOOR AND CLOSER
SHOWN. RIGHT HAND OPPOSITE 6 / 96

$\frac{1}{2}$ DIA. HOLE IN REMOVABLE STOP
SECTION FOR ACCESS TO SPRING
ADJUSTMENT.

LOCATION OF NO. 8-32 TAPPED HOLES
IN CLOSER FOR MOUNTING
REMOVABLE FRAME SECTION
(13 HOLES)

 A horizontal line with a break in the middle. The left part is labeled "LOCATION OF NO. 8-32 TAPPED HOLES IN CLOSER FOR MOUNTING REMOVABLE FRAME SECTION (13 HOLES)". The right part is labeled "STOP SECTION FOR CLOSER SHAFT".

NOTES -
1 - MAXIMUM STOP THICKNESS $\frac{5}{8}$.
2 - $\frac{1}{4}$ MAXIMUM DOOR TO SOFFIT.

- 2 - $\frac{1}{8}$ MAXIMUM DOOR TO SOFT-1 CLEARANCE.
- 3 - REINFORCING PER ANSI/SDI-100 RECOMMENDED FOR HOLLOW METAL DOOR AND FRAMES.
- 4 - THIS PRODUCT REQUIRES A 4" MINIMUM FRAME HEADER. CONSULT FACTORY IF HEAD JAMB IS LESS THAN 4".

FRAME PREPARATION MAY BE IN WOOD, HOLLOW METAL OR ALUMINUM TUBE. CONSULT FACTORY IF FRAME DETAIL IS DIFFERENT.

CLOSER COVER BOX BY
FRAME MANUFACTURER

METAL FRAMING. THE SECTION OF SOFFIT AND OP AT CLOSER MUST BE REMOVABLE. THIS SECTION IS TO BE SUPPLIED BY THE SAME MFR. TO INSURE CONFORMITY WITH REMAINDER OF FRAME CONTOUR OF FRAME MAY VARY FROM THAT SHOWN.

This technical drawing illustrates a door assembly. It features a vertical jamb line on the right side. A horizontal line extends from the top of the jamb to the left, defining the door's width. The total width is labeled as $3 \frac{5}{8}$. A vertical line extends downwards from the top of the jamb, defining the door's height. The total height is labeled as $10 \frac{7}{32}$. A horizontal line extends from the bottom of the jamb to the left, defining the door's thickness. The thickness is labeled as $\frac{7}{8}$. A vertical line extends upwards from the bottom of the jamb, defining the door's height. The height is labeled as $1 \frac{3}{4}$. A label 'PIVOT' is positioned near the bottom left, and a label 'JAMB LINE' is positioned near the bottom center. A small detail at the bottom left shows a 'P' symbol with a circle, indicating a pivot point.

I.W.S.

NOT TO BE USED TO MEET ADA.

NO.	REVISION	BY DATE	BY DATE	DO NOT SCALE
1	CAD CONVERSION	CTB 6/93		
2	TEMPATE UPDATE	JEJ 6/96	OVERHEAD CONCEALED CLOSER WITH	
3	TEMPATE UPDATE	AMM 2/98	STANDARD ARM & CENTER PIVOTS	
4	REMOVED PIVOT INFO.	AMM 5/01		
				50 10 - CP (UP TO 100 °)

NOT TO BE USED TO MEET ADA.

5011	NON HOLD OPEN {101° TO 140°}
THRU }	
5016	H-180° ARM 101° TO 140° }
AUXILIARY STOP	RECOMMENDED
LEFT HAND DOOR AND CLOSER	6 / 96
SHOWN	RIGHT HAND OPPOSITE

$\frac{3}{4}$ HOLE THRU REMOVABLE
STOP SECTION FOR CLOSER SHAFT.

$\frac{1}{2}$ DIA. HOLE IN REMOVABLE STOP
SECTION FOR ACCESS TO SPRING
ADJUSTMENT.

NOTES

1 - M
2 - 1/8
3 - 3/4

4 - RE
DC

5 - TH

DOOR

1 1/32

2 1/16

9/16

1/16

2 3/32

2 3/32

2 9/32

1 5/16

5/32

HOLE THRU REMOVABLE
STOP SECTION.

LOCATION OF NO. 8-32 TAPPED
HOLES IN CLOSER FOR MOUNTING
REMOVABLE STOP SECTION.
{ 3 HOLES }

NOTES -

- 1 - MAXIMUM STOP THICKNESS $\frac{5}{8}$ ".
- 2 - $\frac{1}{8}$ " MAXIMUM DOOR TO SOFFIT
- 3 - $\frac{3}{4}$ " DIMENSION MAY BE INCREASED
- 4 - ARMS ONLY.
- 4 - REINFORCING PER ANSI/SDI-100
- DOOR AND FRAMES.
- 5 - THIS PRODUCT REQUIRES A $\frac{4}{4}$ "
- FACTORY IF HEAD JAMB IS LESS
- 8-32 TAPPED
- FOR MOUNTING
- SECTION.

CLOSER COVER BOX BY
FRAME MANUFACTURER

Technical drawing of a structural assembly, likely a door frame or similar component. The drawing shows a vertical frame with various internal parts and hardware. Key dimensions are indicated as follows:

- Width of the top horizontal section: $3 \frac{5}{8}$
- Width of the middle horizontal section: $3 \frac{3}{8}$
- Width of the bottom horizontal section: $1 \frac{3}{4}$
- Height of the left vertical section: $5 \frac{17}{32}$
- Width of the left vertical section: $\frac{7}{8}$
- Thickness of the top horizontal section: $\frac{1}{2}$
- Thickness of the middle horizontal section: $\frac{1}{2}$
- Thickness of the bottom horizontal section: $\frac{1}{2}$
- Width of the top horizontal section: $3 \frac{5}{8}$
- Width of the middle horizontal section: $3 \frac{3}{8}$
- Width of the bottom horizontal section: $1 \frac{3}{4}$
- Height of the left vertical section: $5 \frac{17}{32}$
- Width of the left vertical section: $\frac{7}{8}$
- Thickness of the top horizontal section: $\frac{1}{2}$
- Thickness of the middle horizontal section: $\frac{1}{2}$
- Thickness of the bottom horizontal section: $\frac{1}{2}$

Annotations on the right side of the drawing specify:

- (6) 1/4-20 X 5/8 PH.M.S. OR
- (6) No. 14 X 1 1/2 PH.W.S.

THIS TEMPLATE FOR OPENINGS
FROM 101° TO 140° ONLY.
NOT TO BE USED
WITH DOOR HOLDER.

USE THIS TEMPLATE TO MEET ADA.

FRAME PREPARATION MAY BE IN
WOOD. HOLLOW METAL OR ALUMINUM
TUBE. CONSULT FACTORY IF FRAME
DETAIL IS DIFFERENT.

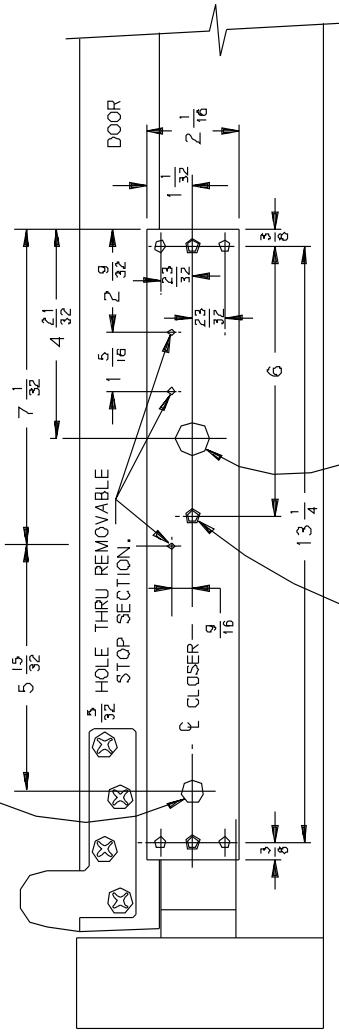
inch	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{5}{32}$	$\frac{9}{64}$	$\frac{5}{16}$	$\frac{23}{32}$	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{1}{2}$	$1 - \frac{1}{32}$	$1 - \frac{5}{16}$	$1 - \frac{11}{16}$	$1 - \frac{3}{16}$	
mm	3	4	6	10	13	14	16	18	19	22	25	26	33	43	44	49
inch	2	$2\frac{1}{16}$	$2\frac{3}{32}$	$2\frac{1}{2}$	3	$3\frac{1}{8}$	$4\frac{21}{32}$	$5\frac{15}{32}$	$5\frac{31}{32}$	$6\frac{1}{32}$	$7\frac{1}{32}$	$7\frac{11}{32}$	$7\frac{23}{32}$	$10\frac{13}{32}$	$10\frac{15}{32}$	12
mm	51	52	54	56	58	64	67	70	73	76	79	82	89	96	100	127

No.	REVISION	BY DATE	ART BY JEJ 6/96	DO NOT SCALE
1	CAD CONVERSION	CTB 6/93		
2	TEMPATE UPDATE	JEJ 6/96	OVERHEAD CONCEALED CLOSER WITH	
3	TEMPATE UPDATE	AMM 2/98	STANDARD ARM & CENTER PIVOTS	
4	REMOVED PIVOT INFO.	AMM 5/01		
5	REMOVED H180 ARM	JDT 9/09		

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AUXILIARY STOP RECOMMENDED
LEFT HAND DOOR AND CLOSER
THOWN. RIGHT HAND OPPOSITE 6 / 96

1
2 DIA. HOLE IN REMOVABLE STOP
SECTION FOR ACCESS TO SPRING
ADJUSTMENT.



LOCATION OF NO 8-32 TAPPED HOLES
IN CLOSER FOR MOUNTING
REMOVABLE FRAME SECTION
[3 HOLES].

NOTES -

- 2 - MAY BE USED WITH CONCEALED IN DOOR AUXILIARY HOLDER. MAXIMUM OPENING 95°.
- 3 - REINFORCING PER ANSI/SDI-100 RECOMMENDED FOR HOLLOW METAL DOOR AND FRAMES.
- 4 - THIS PRODUCT REQUIRES A 4" MINIMUM FRAME HEADER. CONSULT FACTORY IF HAND JAMB IS LESS THAN 4".

FRAME PREPARATION MAY BE IN WOOD. HOLLOW METAL OR ALUMINUM TUBE. CONSULT FACTORY IF FRAME DETAIL IS DIFFERENT.

CLOSER COVER BOX BY FRAME MANUFACTURER

METAL FRAMING. THE SECTION OF SOFT IT AND OP AT CLOSER MUST BE REMOVABLE. THIS SECTION MUST BE SUPPLIED BY THE SAME MFR TO INSURE INFORMITY WITH REMAINDER OF FRAME. CONTOUR OF FRAME MAY VARY FROM THAT SHOWN.

10 $\frac{13}{16}$ INCHES

$\frac{3}{4}$ INCH MIN.

7 INCH MAX.

This technical drawing illustrates a door jamb template designed for 100° opening doors. The template is a rectangular frame with various dimensions and features:

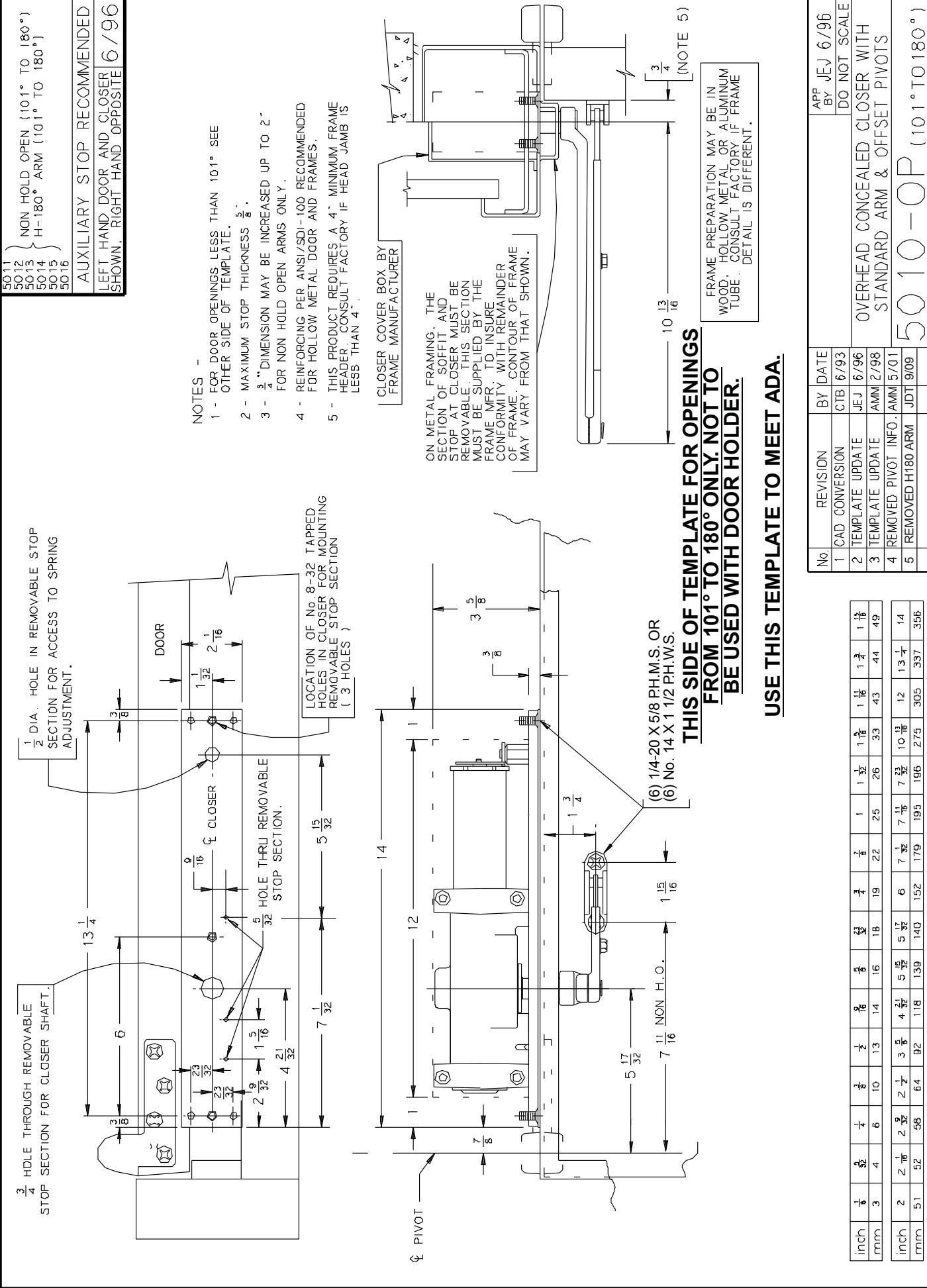
- Overall width:** 14 inches.
- Overall height:** 12 inches.
- Top edge thickness:** 1 inch.
- Bottom edge thickness:** 1 inch.
- Left edge thickness:** 1 inch.
- Right edge thickness:** 1 inch.
- Top horizontal slot width:** 3 $\frac{5}{8}$ inches.
- Top horizontal slot height:** 1 $\frac{3}{4}$ inches.
- Bottom horizontal slot width:** 3 $\frac{3}{8}$ inches.
- Bottom horizontal slot height:** 1 $\frac{15}{16}$ inches.
- Left vertical slot width:** 10 $\frac{7}{32}$ inches.
- Left vertical slot height:** 12 $\frac{3}{8}$ inches.
- Right vertical slot width:** 1 $\frac{15}{16}$ inches.
- Right vertical slot height:** 1 $\frac{15}{16}$ inches.
- Left side label:** "PIVOT" with an arrow pointing to the left vertical slot.
- Bottom left label:** "JAMB LINE" with an arrow pointing to the bottom horizontal slot.
- Top right label:** "THIS TEMPLATE FOR OPENINGS
UP TO 100° ONLY" with an arrow pointing to the top horizontal slot.
- Top right dimensions:** (6) 1/4-20 X 5/8 PH N
(6) No. 14 X 1 1/2 PH

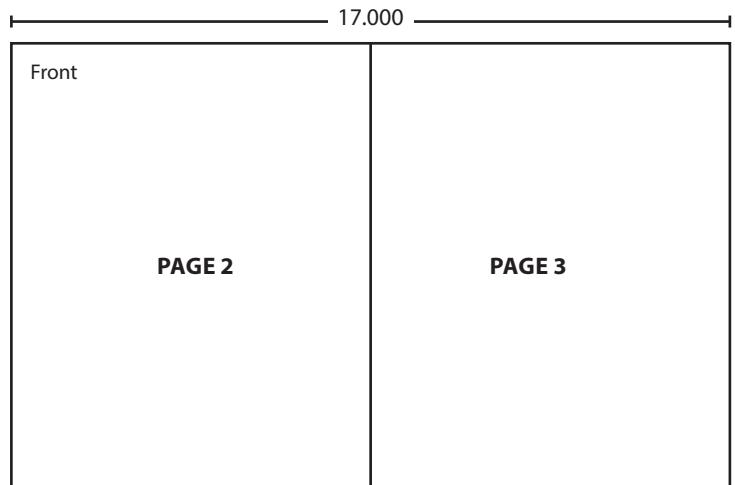
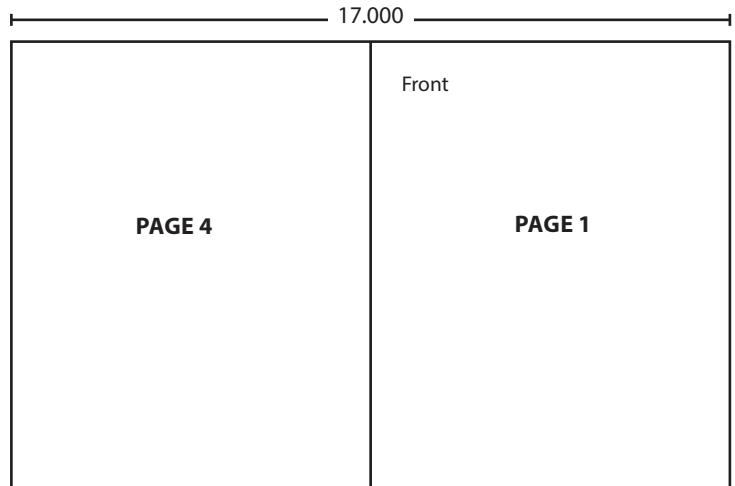
THIS TEMPLATE FOR OPENINGS
UP TO 100° ONLY.

NOT TO BE USED TO MEET ADA.

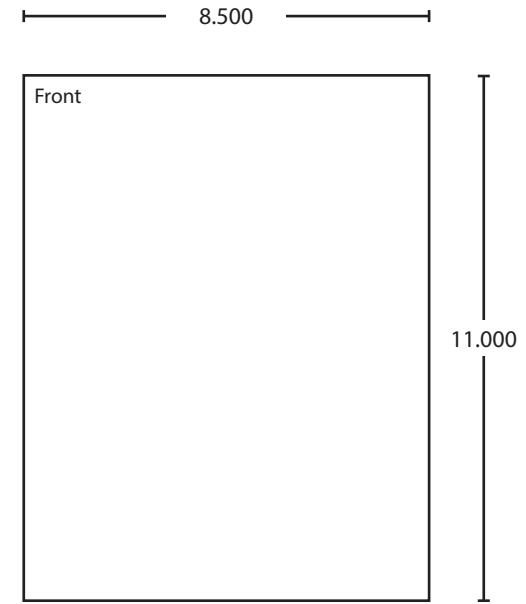
inch	$\frac{1}{6}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{31}{32}$	$\frac{7}{4}$	$\frac{1}{8}$	1	$1\frac{1}{32}$	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{15}{16}$
mm	3	4	6	10	13	14	16	18	19	22	25	26	33	44	49
inch	2	$2\frac{1}{16}$	$2\frac{3}{32}$	$3\frac{1}{8}$	$4\frac{1}{16}$	$5\frac{15}{32}$	6	7 $\frac{1}{2}$	$10\frac{7}{16}$	$10\frac{13}{16}$	12	$12\frac{3}{8}$	$13\frac{1}{4}$	14	
mm	51	52	58	92	118	139	152	179	260	275	305	314	337	356	

No.	REVISION	BY DATE	APP BY JEJ 6/96 DO NOT SCALE
1	CAD CONVERSION	CTB 6/93	
2	TEMPLATE UPDATE	JEJ 6/96	OVERHEAD CONCEALED CLOSER WITH STANDARD ARM & OFFSET PIVOTS
3	TEMPLATE UPDATE	AMM 2/98	
4	REMOVED PIVOT INFO.	AMM 5/01	
			5010-OP (UP TO 100°)





BEGINNING SHEET



FOLDED SHEET

Additional Notes:	
1. None	

Revision History						Revision Description: G > Revised artwork					
G	H	J	K	L	M						
042801											
Material White Paper						Edited By	Approved By	EC Number	Release Date		
						D. Myers	M. Sasso	042801	01-01-14		
Notes 1. printed two sides 2. printed black 3. tolerance $\pm .13$ 4. saddle-stitched two sheets 5. drawings not to scale						Title 5010 Series Installation Instructions					
						Creation Date 11-01-03	Number 13187	Revision G			
						Created By N/A	Activity 3899 Hancock Expwy Security, CO 80911				
						Software: InDesign CS6			© Allegion 2014		