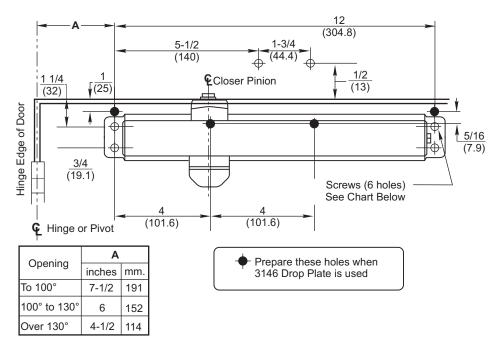


Installation Instructions

Regular Arm



Installation Sequence

- Prepare for fasteners See "Fasteners Chart", this page.
- Remove forearm screw from arm assembly and fasten the arm shoe assembly to the frame face. (Slot facing down.)
- Mount closer body to door. Place end with 2 regulating valves toward hinge edge of door. NOTE: If using full metal cover, cover mounting clips must be slipped under ends of closer when closer is being mounted.
- Install main arm on top of pinion shaft. Align the pinion flat with the letter "S" (See Figure 1).
 Fasten with arm screw.
- Reassemble Arm. Adjust forearm perpendicular to door (90° angle). Install and tighten set screw. See illustration below template.
- Adjust closer. See page 4.
- Install Pinion Cap and/or Cover. See page 4.

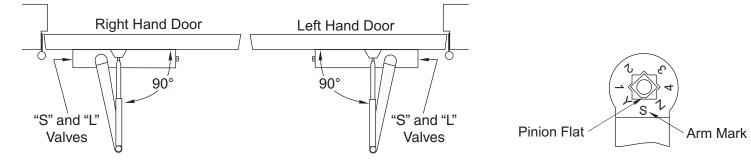


Figure 1

	$\frac{1}{(25)}$ Min to Ceiling $\frac{2-1/2}{(64)}$ Ref	Preparation for Fasteners			
\square			Fasteners	Door or Frame	Drill-Sizes
		Standard	Self-Drilling Screw	Aluminum or Metal	No drill required
				Wood	3/16" (4.30 mm) Pilot hole required
			1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20
		Optional	Sleeve nuts and bolts	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer
				Aluminum or Wood	3/8" (9.5 mm) through
			Through-bolts and grommet-nuts	All	9/32" (7 mm); 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door opposite to closer

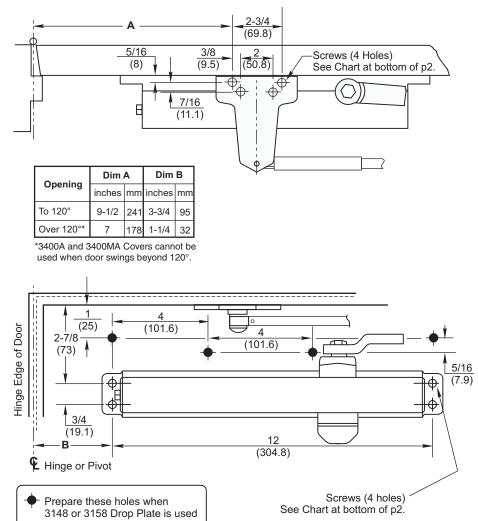
Parallel Arm

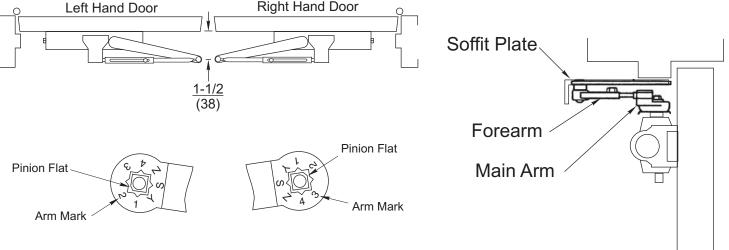
Installation Sequence

- Select door opening angle. Using template dimensions mark 4 holes on door for closer body or 4 holes (+) For 3148 Drop Plate and 4 holes on frame soffit for soffit plate.
- Prepare for fasteners See "Fasteners Chart" at bottom of page 2.
- Mount soffit plate to frame.
- Mount closer body to door (or mount drop plate to door and then the closer body to the plate). Place end with 2 regulating valves toward lock edge of door. NOTE: If using full metal cover, cover mounting clips must be slipped under ends of closer when closer is being mounted.
- Install main arm on top of pinion shaft. Rotate pinion 45° toward hinge edge of door and align the **pinion flat** with arm mark:
 - "2" for left hand door
 - "3" for right hand door

(See figure 2 below) Fasten with arm screw

- Fasten arm tube to soffit plate with soffit plate screw.
- Assemble arm. Open door slightly and insert rod into arm tube. Close door and adjust forearm length so that the arm elbow is 1-1/2" (38mm) from door surface. Install and tighten forearm screw.
- Adjust Closer See Page 4.
- Install Pinion Cap and/or Cover. See Page 4.
 NOTE: Architectural Covers CAN NOT be used for doors swinging over 120° using parallel mount.







Unit Adjustment

Control Valve Adjustments (see Figure 3.)

Closing Speed Controls (Figure 4.)

- Valve "S" Controls Sweep Range.
- Valve "L" Controls Latch Range.
- Valve "D" (Optional for all models) Controls Delay Range.

Opening Cycle

• "Backcheck" valve controls the strength of cushioning in Backcheck Range. NEVER close this valve completely – it is not to provide a positive stop. (see Figure 5 and Figure 6).

Cover

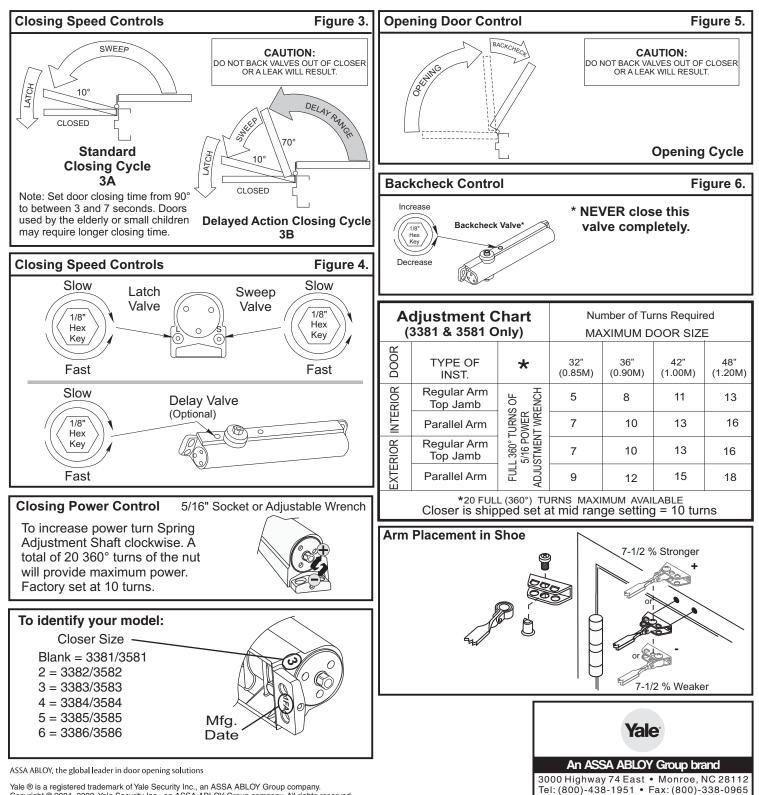
Full cover: Slide cover insert into the un-used cutout in cover. Install cover using screws provided.

Narrow cover: Install cover using screws provided. Install pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.

Full metal cover: Fasten cover to mounting clips with screws provided.

Metal Architectural Cover: Remove cover insert where pinion is located. Install standoffs in ends of closer. Install cover using screws provided.

Plastic Architectural Cover: Slide cover insert into the un-used cutout in cover. Install standoffs in ends of closer. Snap cover over standoffs.



Copyright © 2004, 2009, Yale Security Inc. an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Yale Security Inc. is prohibited.

80-9303-2210-010 (06-09)

www.yalecommercial.com