

INSTALLATION INSTRUCTIONS

Incorrect installation or adjustment could cause damage or injury
Read and follow instructions carefully

DOOR CLOSER: 510, 520, 530, 52, 53, 502, 523, 503, 534, 504, 543, 505, 506, 533, 540, 550, 603, 632, 604, 643, 605, 654, 606, 701, 702, 703, 704, 705, 712, 713
NO-HOLD-OPEN / HOLD-OPEN
OPTIONAL BACK CHECK

Option A - Regular Arm Installation

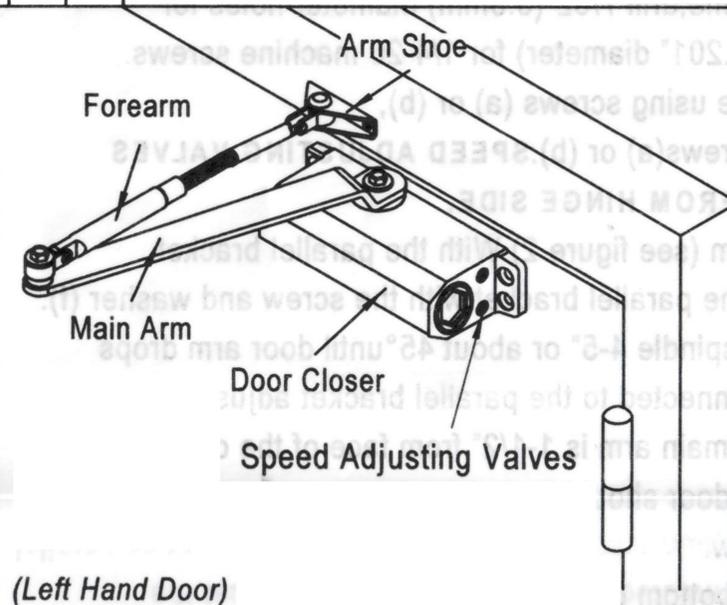
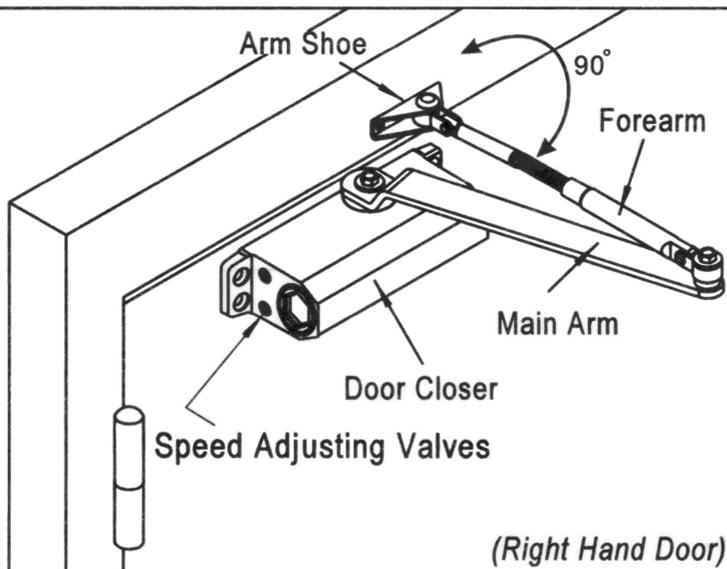
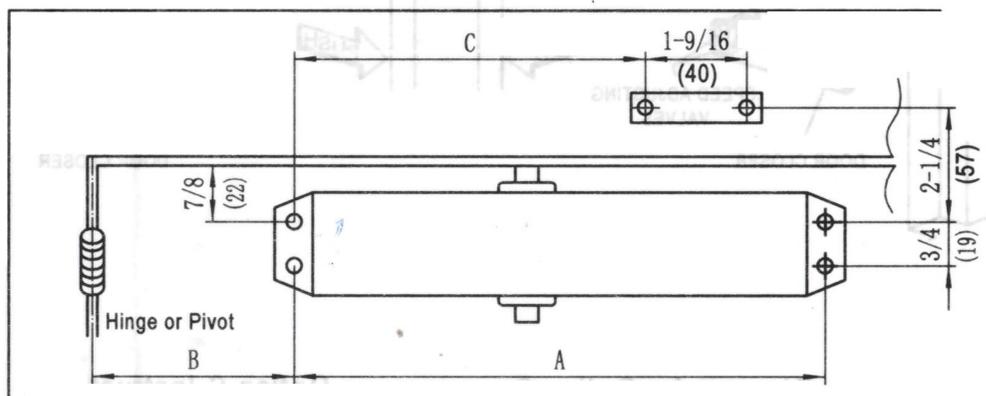


Diagram for Option A



Model	Door Opening 0° to 120°			Model	Door Opening 0° to 180°		
	A	B	C		A	B	C
510,520,530,52,53,701,712,713	6-1/2 (165)	3-3/4 (95)	5-3/4 (145)	510,520,530,52,53,701,712,713	6-1/2 (165)	2-9/16 (65)	5-3/4 (145)
502,523,603,632,702	6-5/8 (168)	3-3/4 (95)	5-3/4 (145)	502,523,603,632,702	6-5/8 (168)	2-9/16 (65)	5-3/4 (145)
533,540,550	7-7/16 (190)	4-3/4 (120)	6-1/8 (155)	533,540,550	7-7/16 (190)	3-1/2 (90)	6-1/8 (155)
503,534,604,643,703	8-1/8 (206)	4-5/16 (110)	6-5/16 (160)	503,534,604,643,703	8-1/8 (206)	3-3/16 (80)	6-5/16 (160)
504,543,505,506,654,605,606,704,705	9-1/16 (230)	4-5/16 (110)	6-5/16 (160)	504,543,505,506,654,605,606,704,705	9-1/16 (230)	3-3/16 (80)	6-5/16 (160)

Option A Instructions: 1. Using the measurements from diagram A, mark screw hole center locations. Mark four (4) hole locations on door for door closer and two (2) hole locations on frame for arm shoe. 2. Drill pilot holes in door and frame, drill 7/32" (5.5mm) diameter holes for wood screws or drill and tap #7 (.201" diameter) for 1/4-20 machine screws. 3. Install adjustable forearm/arm shoe to frame using screws (c) or (d). 4. Mount closer on door using screws (a) or (b). SPEED ADJUSTING VALVES MUST BE POSITIONED TOWARD HINGE SIDE. 5. Install main arm to top pinion shaft, forearm need perpendicular to the door. Secure tightly with arm screw/washer (e). 6. Adjust closing speed, see page 2 for reference. 7. Snap pinion cap over shaft at bottom of closer or install cover.

Option B - Top Jamb Installation

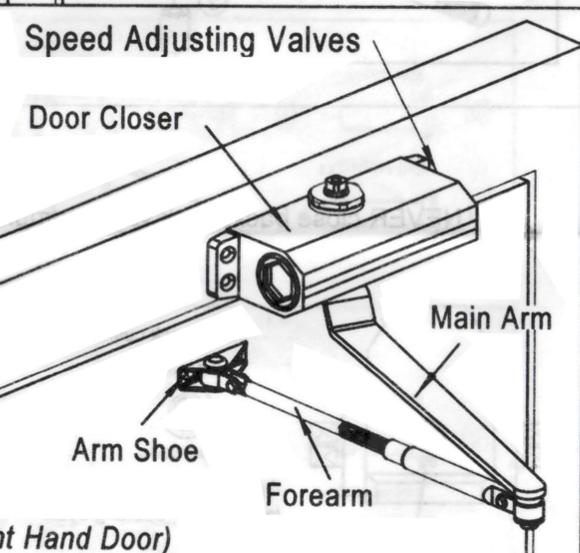
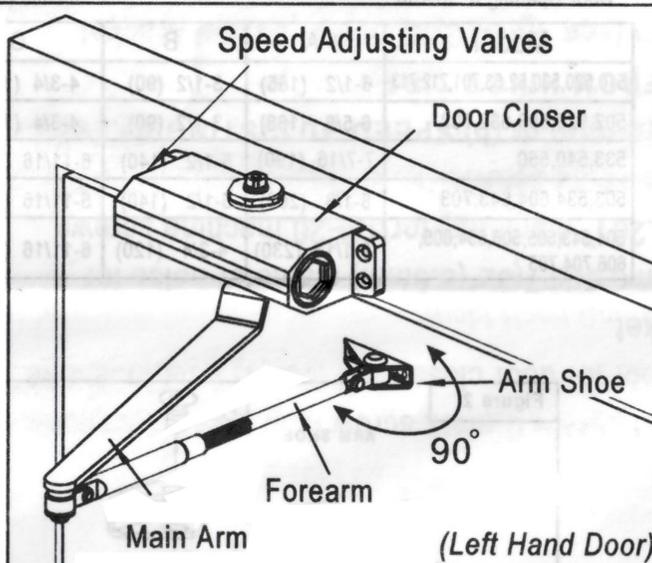
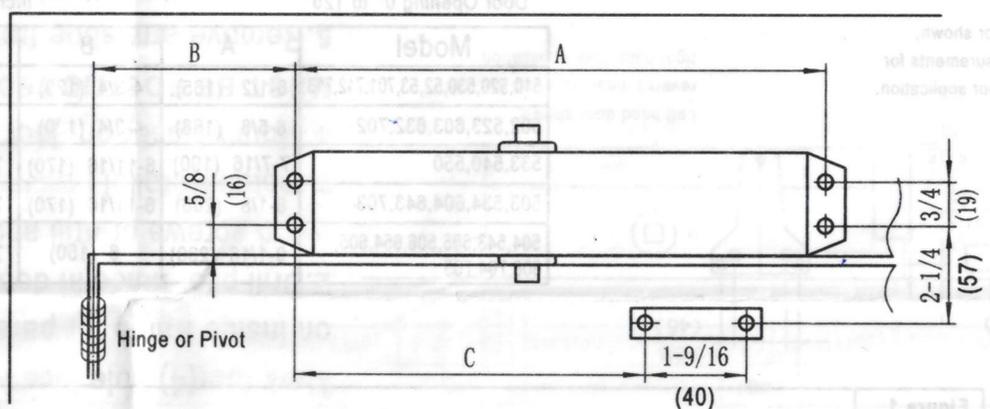


Diagram for Option B

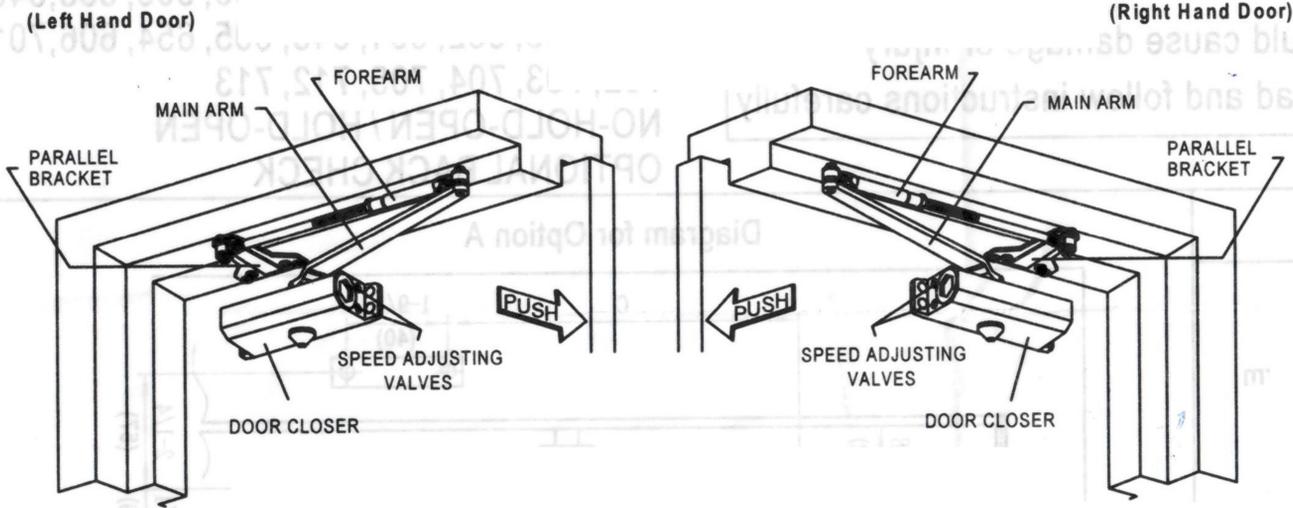


Model	Door Opening 0° to 120°			Model	Door Opening 0° to 180°		
	A	B	C		A	B	C
510,520,530,52,53,701,712,713	6-1/2 (165)	3-3/4 (95)	5-3/4 (145)	510,520,530,52,53,701,712,713	6-1/2 (165)	2-9/16 (65)	5-3/4 (145)
502,523,603,632,702	6-5/8 (168)	3-3/4 (95)	5-3/4 (145)	502,523,603,632,702	6-5/8 (168)	2-9/16 (65)	5-3/4 (145)
533,540,550	7-7/16 (190)	4-3/4 (120)	6-1/8 (155)	533,540,550	7-7/16 (190)	3-1/2 (90)	6-1/8 (155)
503,534,604,643,703	8-1/8 (206)	4-5/16 (110)	6-5/16 (160)	503,534,604,643,703	8-1/8 (206)	3-3/16 (80)	6-5/16 (160)
504,543,505,506,654,605,606,704,705	9-1/16 (230)	4-5/16 (110)	6-5/16 (160)	504,543,505,506,654,605,606,704,705	9-1/16 (230)	3-3/16 (80)	6-5/16 (160)

Option B Instructions: 1. Using the measurements from diagram B, mark screw hole center locations. Mark four (4) hole locations on frame for door closer and two (2) hole locations on door for arm shoe. 2. Drill pilot holes in door and frame, drill 7/32" (5.5mm) diameter holes for wood screws or drill and tap #7 (.201" diameter) for 1/4-20 machine screws. 3. Install adjustable forearm/arm shoe to door using screws (a) or (b). 4. Mount closer on frame using screws (c) or (d). SPEED ADJUSTING VALVES MUST BE POSITIONED TOWARD HINGE SIDE. 5. Install main arm to bottom pinion shaft, forearm need perpendicular to the door. Secure tightly with arm screw/washer (e). 6. Adjust closing speed, see page 2 for reference. 7. Snap pinion cap over shaft at top of closer or install cover.

⚠: The door closer with Hold-Open function is not recommended to use the installation method of Top jamb!

Option C-Parallel Arm Installation



Components

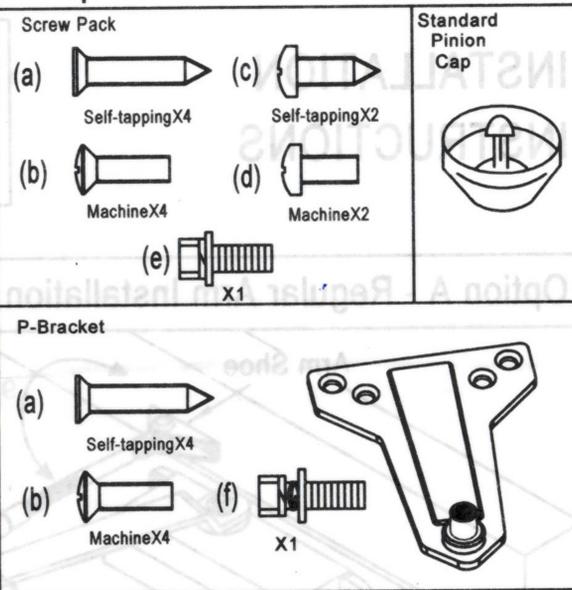
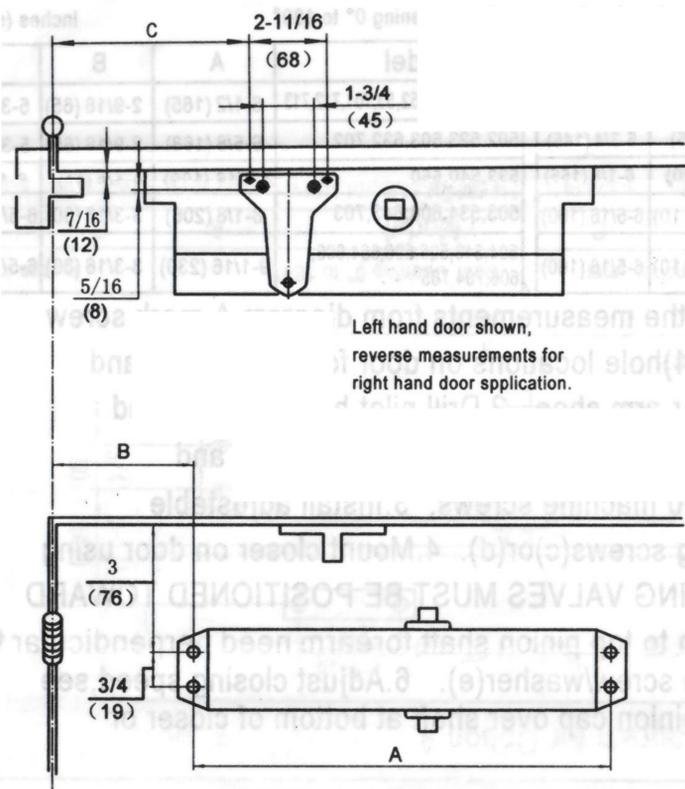


Diagram for Option C



Option C Instructions:

- Using the measurements from diagram C, mark screw hole center locations. Mark four(4) hole locations on door for door closer and four(4) hole locations on inside frame for parallel bracket.
- Drill pilot holes in door and frame, drill 7/32" (5.5mm) diameter holes for wood screws or drill and tap #7 (.201" diameter) for 1/4-20 machine screws.
- Install Parallel bracket to frame using screws (a) or (b),
- Mount closer on door using screws (a) or (b). **SPEED ADJUSTING VALVES MUST BE POSITIONED AWAY FROM HINGE SIDE.**
- Remove arm shoe from forearm (see figure 2). With the parallel bracket installed attach the forearm to the parallel bracket with the screw and washer (f).
- Use a wrench and rotate the spindle 4-5" or about 45° until door arm drops onto spindle, with the forearm connected to the parallel bracket adjust the forearm so when connected the main arm is 1-1/2" from face of the door or parallel to the door, if done correctly, the door should be held tight into closed position.
- Adjust closing speed, see below.
- Snap pinion cap over shaft at bottom of closer or install cover.



Left hand door shown, reverse measurements for right hand door application.

Door Opening 0° to 120°

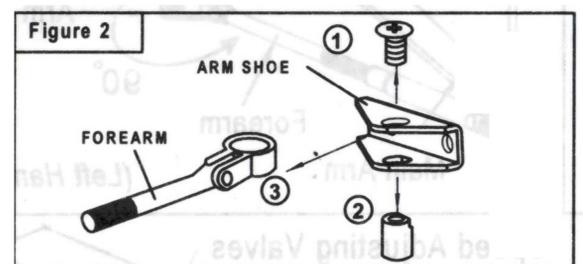
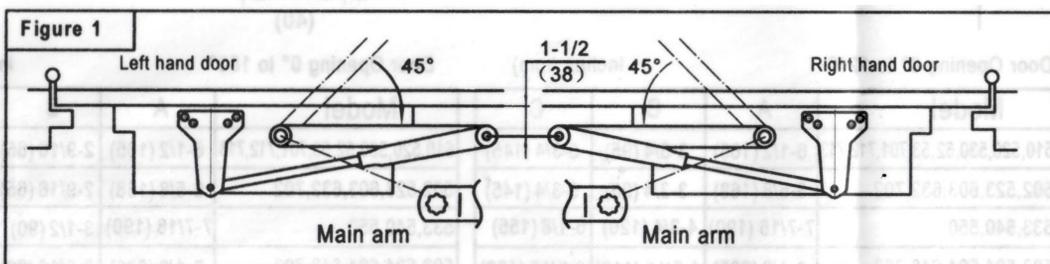
Inches (mm)

Door Opening 0° to 180°

Inches (mm)

Model	A	B	C
510,520,530,52,53,701,712,713	6-1/2 (165)	4-3/4 (120)	6 (150)
502,523,603,632,702	6-5/8 (168)	4-3/4 (120)	6 (150)
533,540,550	7-7/16 (190)	6-11/16 (170)	7-7/8 (200)
503,534,604,643,703	8-1/8 (206)	6-11/16 (170)	7-7/8 (200)
504,543,505,506,654,605,606,704,705	9-1/16 (230)	6 (150)	7-7/8 (200)

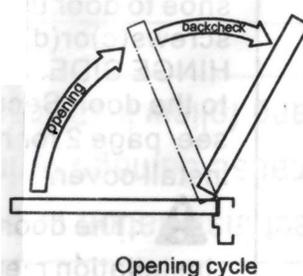
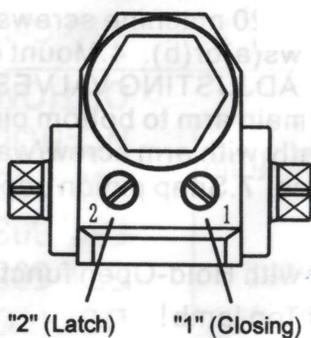
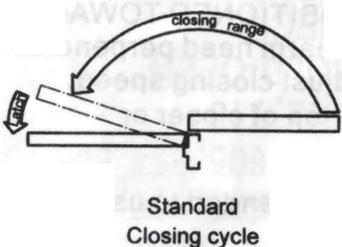
Model	A	B	C
510,520,530,52,53,701,712,713	6-1/2 (165)	3-1/2 (90)	4-3/4 (120)
502,523,603,632,702	6-5/8 (168)	3-1/2 (90)	4-3/4 (120)
533,540,550	7-7/16 (190)	5-1/2 (140)	6-11/16 (170)
503,534,604,643,703	8-1/8 (206)	5-1/2 (140)	6-11/16 (170)
504,543,505,506,654,605,606,704,705	9-1/16 (230)	4-3/4 (120)	6-11/16 (170)



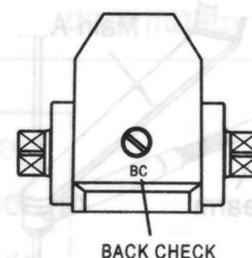
DOOR CLOSER ADJUSTMENT

CAUTION!! Do not turn speed adjusting valves more than two (2) full turns counter-clockwise. Do not take valves out of closer or a leak will result.

Closing & Latch



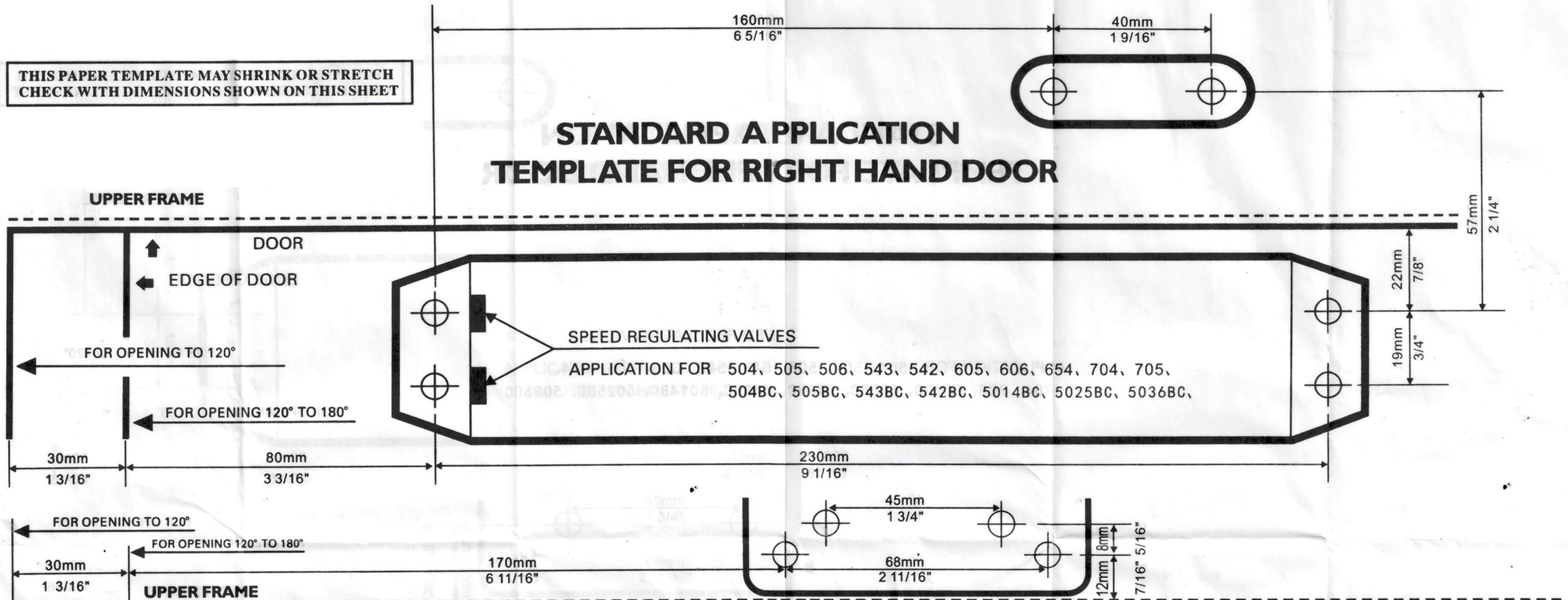
NEVER close backcheck valve completely



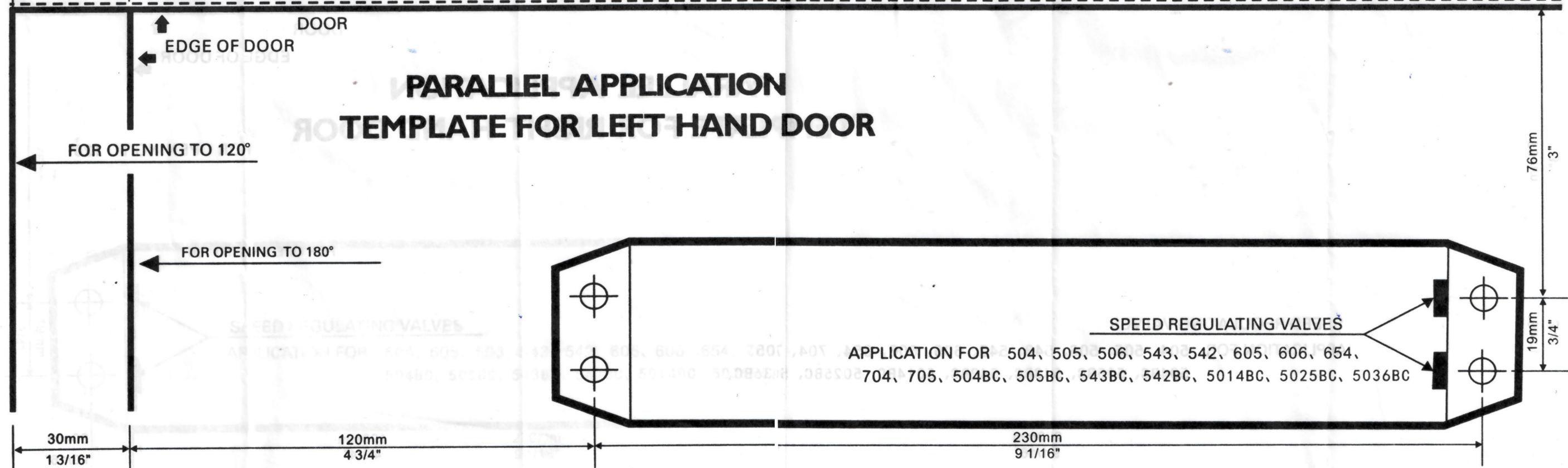
Backcheck cushion increase
decrease
Opening for backcheck later in door-opening cycle

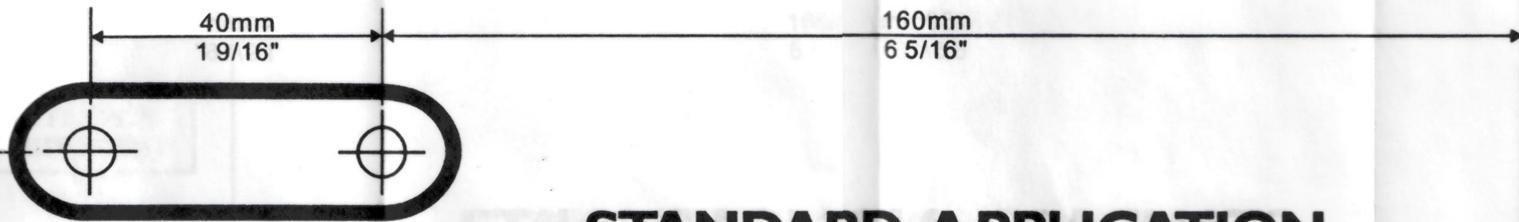
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STANDARD APPLICATION TEMPLATE FOR RIGHT HAND DOOR



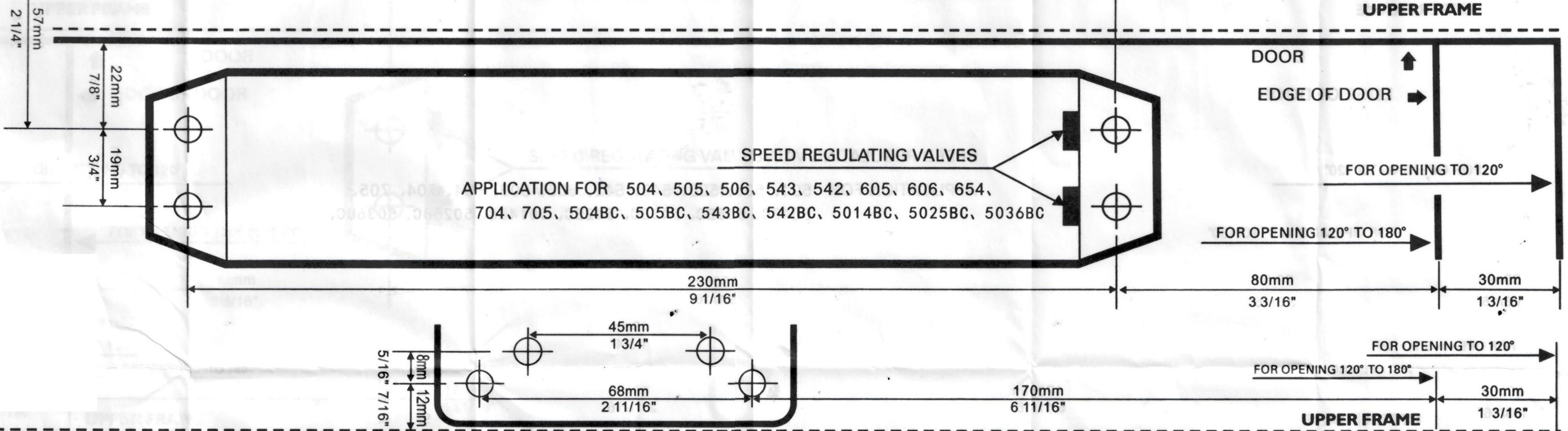
PARALLEL APPLICATION TEMPLATE FOR LEFT HAND DOOR





**THIS PAPER TEMPLATE MAY SHRINK OR STRETCH
CHECK WITH DIMENSIONS SHOWN ON THIS SHEET**

STANDARD APPLICATION TEMPLATE FOR LEFT HAND DOOR



PARALLEL APPLICATION TEMPLATE FOR RIGHT HAND DOOR

