- **This sheet covers 3 installation options, select appropriate installation.**
- **All measurements are to be made manually.**

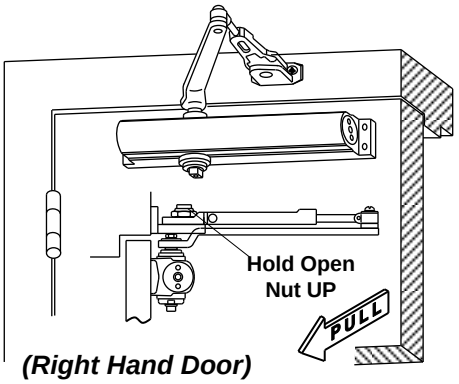
INSTALLATION INSTRUCTIONS

Power sizes 1 thru 6

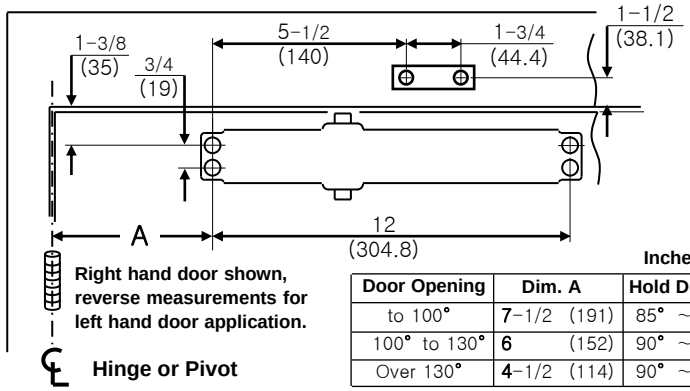
Incorrect installation or adjustment could cause damage or injury. Read and follow instructions carefully.

Hold Open Models

Option A – Regular Arm Installation



(Right Hand Door)

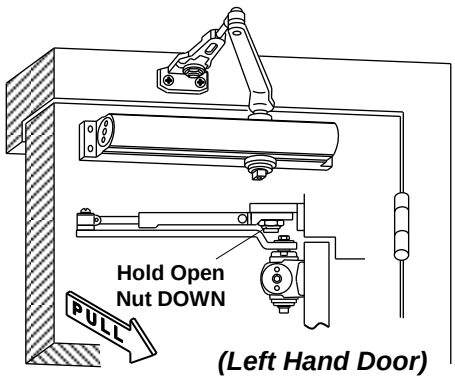


Inches (mm)

Right hand door shown, reverse measurements for left hand door application.

Hinge or Pivot

Door Opening	Dim. A	Hold Degrees
to 100°	7-1/2 (191)	85° ~100°
100° to 130°	6 (152)	90° ~130°
Over 130°	4-1/2 (114)	90° ~180°



(Left Hand Door)

Option A instructions:

1. Select degree of opening from table and use template dimensions shown above. Mark four (4) holes on door for closer and two (2) holes on frame for arm shoe.
2. Drill pilot holes in door and frame for #14 all-purpose screws or drill and tap for 1/4-20 machine screws.
3. Install adjustable forearm/arm shoe assembly to frame using screws (g) or (h).
4. Install main arm to top pinion shaft using screw (e).
5. Mount closer on door using screws (c) or (d).
   SPRING POWER ADJUSTING NUT MUST BE POSITIONED AWAY FROM HINGE EDGE.
6. Adjust length of adjustable forearm so that forearm is perpendicular to frame when assembled to preloaded main arm. Secure forearm to main arm with screw provided.
7. Adjust closing speed, back check control and spring power of door, following instructions as shown page 2 "How To Adjust Spring Power".

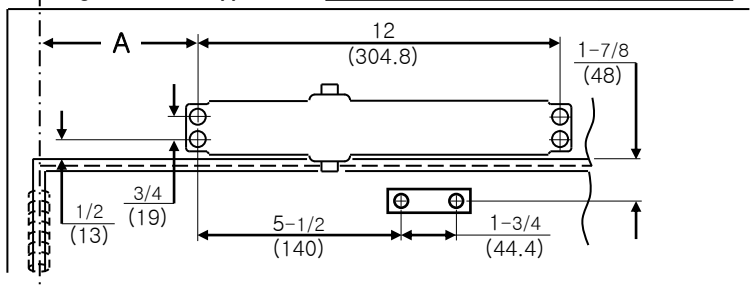
Option B – Top Jamb Installation

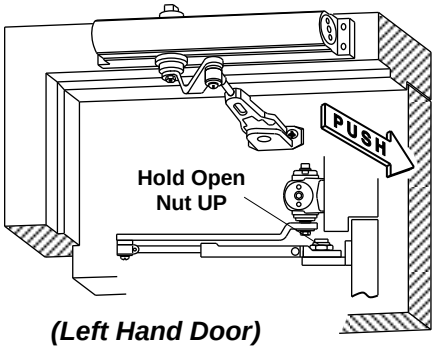
Inches (mm)

Hinge or Pivot

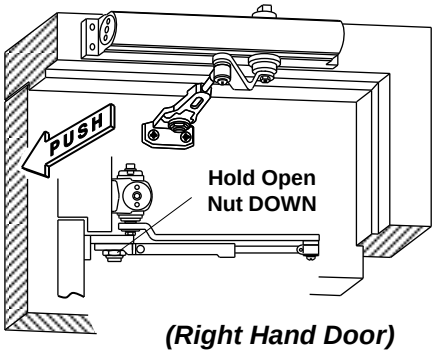
Left hand door shown, reverse measurements for right hand door application.

Door Opening	Dim. A	Hold Degrees
to 100°	7-1/2 (191)	85° ~100°
100° to 130°	6 (152)	90° ~130°
Over 130°	4-1/2 (114)	90° ~180°





(Left Hand Door)

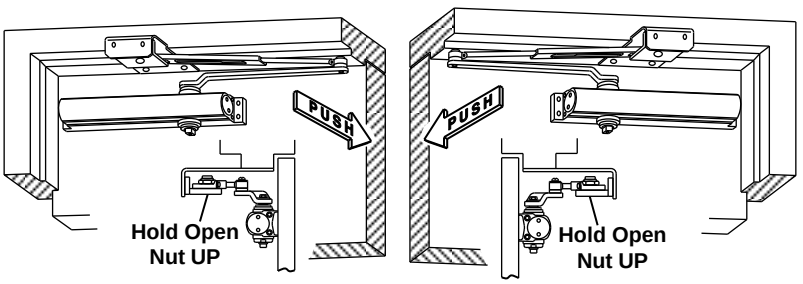


(Right Hand Door)

Option B instructions:

1. Using the measurements from diagram A, mark screw hole center locations. Mark four (4) holes on frame to mount door closer and two (2) holes on door to mount shoe.
2. Drill pilot holes in door and frame, drill 3/16″(4.8mm) diameter holes for self tapping 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, perpendicular to door. Secure tightly with arm screw/washer (e).
6. Adjust length of forearm so that forearm is perpendicular to frame when assembled to preloaded main arm. Secure forearm to main arm with screw.
7. Adjust door's closing speed and power, see page 2 for reference.
8. Install cover using small screw (j).

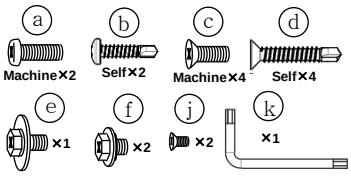
Option C – Parallel Arm Installation



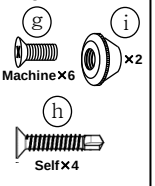
(Left Hand Door) *(Right Hand Door)*

Components

Screw Pack No.1



No.2



Full Cover

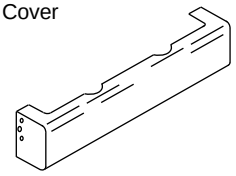
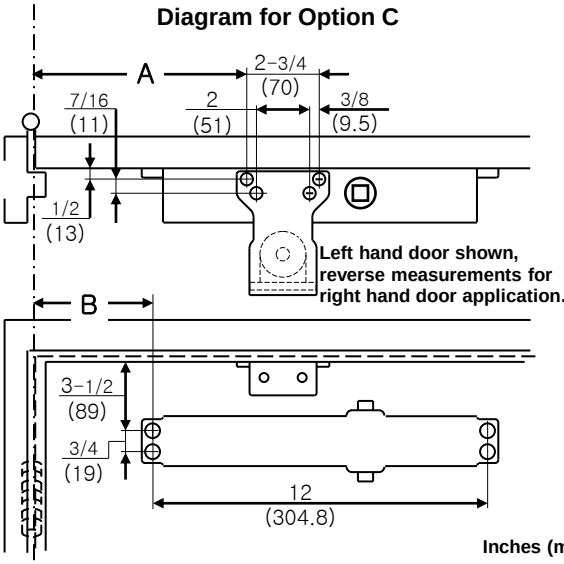


Diagram for Option C

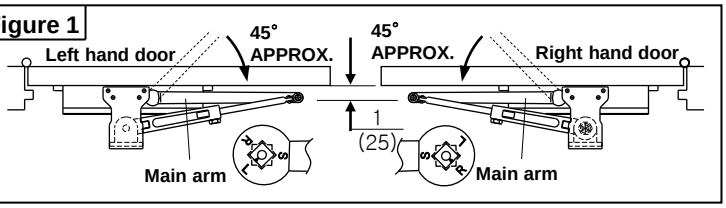


Inches (mm)

Hine or Pivot	Door Opening	Dim. A	Dim. B	Hold Degrees
℄	To 120°	9-1/2 (241)	3-3/4 (95)	80° ~120°
	Over 120°	7 (178)	1-1/4 (32)	80° ~180°

1. Using the measurements from diagram C, mark screw hole center locations. Mark four (4) holes on door to mount door closer and four (4) holes on frame to mount parallel bracket.
2. Drill pilot holes in door and frame, drill 7/32″(5.5mm) diameter holes for self tapping screws or drill and tap #7(.201″ diameter) for 1/4-20 machine screws.
3. Install Parallel bracket to frame using screws (g) or (h).
4. Mount closer on door using screws (c) or (d).
   SPEED ADJUSTING VALVES MUST BE POSITIONED AWAY FROM HINGE SIDE.
5. Place main arm on closer pinion shaft, indexing main arm mark “L” or “R” with pinion flat as shown in Figure 1. Secure tightly with screw/washer (e).
6. Remove arm shoe from forearm, install rod and forearm to bracket using the screw (g), (i).
7. With door closed, adjust length of forearm so that the tip of the main arm is approximately 1″ (25mm) away from being parallel with door, when connected to the forearm. Secure with screw/washer (f).
8. Adjust door’s closing speed and power, see below.
9. Install cover using small screw (j).

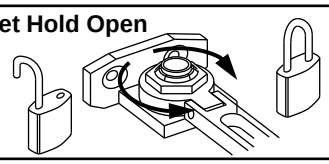
Figure 1

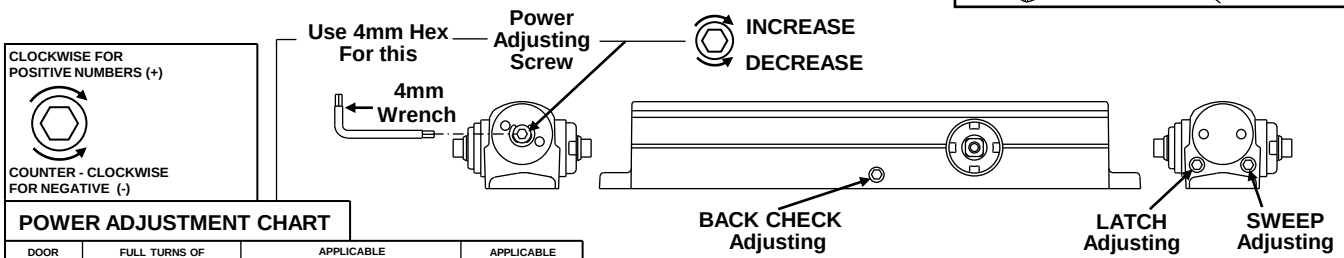


DOOR CLOSER ADJUSTMENT

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

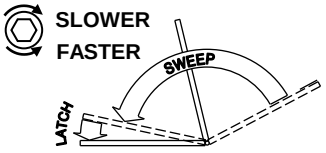
Set Hold Open



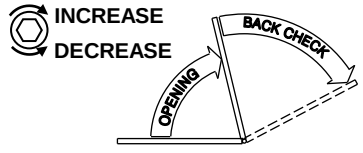


POWER ADJUSTMENT CHART

DOOR CLOSER SIZE	FULL TURNS OF POWER ADJUSTING SCREW	APPLICABLE DOOR LEAF WIDTH		APPLICABLE DOOR WEIGHT
		INTERIOR	EXTERIOR (SWING OUT)	
1	− 8	32″(0.81m)	28″(0.71m)	33～66 LBS (15～30 Kg)
2	− 4	36″(0.91m)	32″(0.81m)	66～99 LBS (30～45 Kg)
3	0 (PRESET)	42″(1.07m)	36″(0.91m)	99～143 LBS (45～65 Kg)
4	+ 3	48″(1.22m)	42″(1.07m)	143～187 LBS (65～85 Kg)
5	+ 8	54″(1.37m)	48″(1.22m)	187～264 LBS (85～120 Kg)
6	+ 11	58″(1.47m)	54″(1.37m)	264～330 LBS (120～150 Kg)



CLOSING CYCLE



OPENING CYCLE