

- This sheet covers 3 installation options, select appropriate installation.
- All measurements are to be made manually.
- Diagram measurements are for your reference only, they are not to scale.



INSTALLATION INSTRUCTION

Adjustable sizes 1(BF) thru 6

Optional: Delayed Action

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

Hold Open Models

Option A – Regular Arm Installation

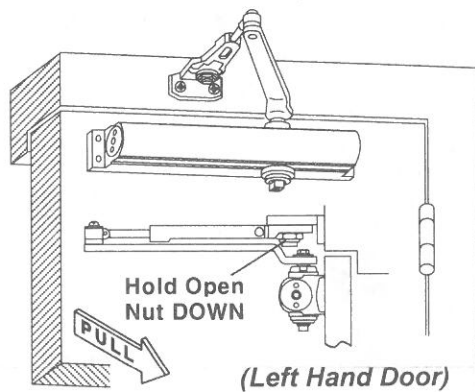
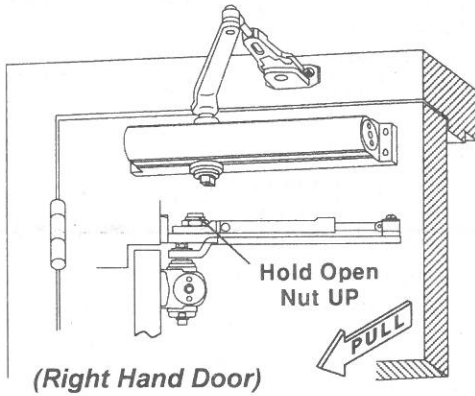
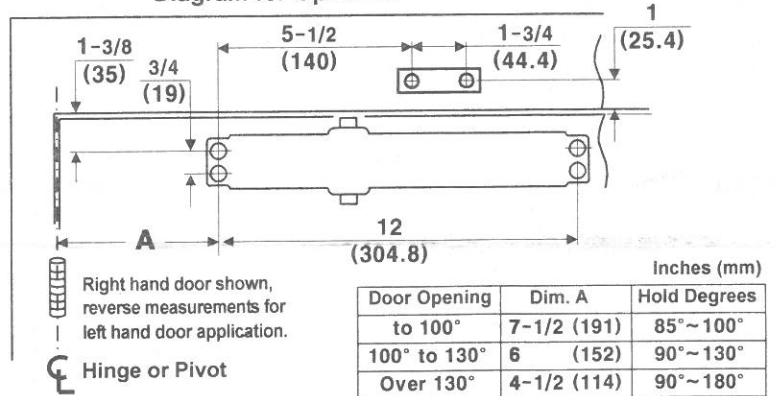


Diagram for Option A



Option A instructions: 1. Select degree of opening from table and use template dimensions shown in 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 of drill and tap for 1/4-20 machine screws. 3. Install adjustable forearm/arm shoe assembly to frame using screws provided. 4. Install main Arm to top pinion shaft using screw provided. 5. Mount closer on door using screws provided. **SPRING POWER ADJUSTING NUT MUST BE POSITIONED AWAY FROM HINGE DEGE.** 6. Adjust length of adjustable forearm so that adjustable forearm is perpendicular to frame when assembled to preloaded main arm(illustration below) Secure forearm to main arm with screw provided. 7. Snap pinion cap over shaft at bottom of closer(When using full cover, pinion cap is not necessary) 8. 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

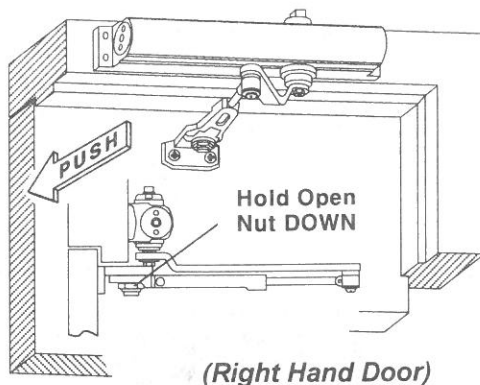
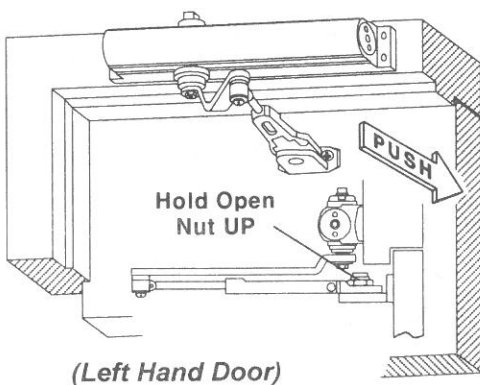
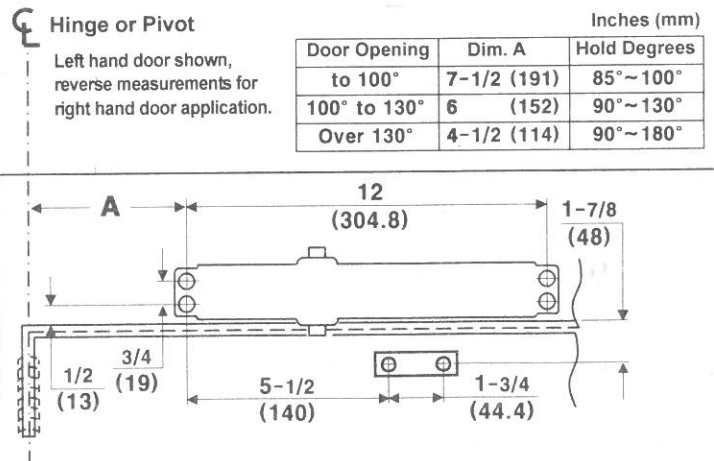


Diagram for Option B



Option B instructions: 1. Using the measurements from diagram A, mark screw hole center locations. Mark four(4) location on frame to mount door closer and two(2) locations on door to mount arm shoe. 2. Drill pilot holes in door and frame, dill 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 onto 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/washer (f). 7. Adjust door's closing speed and power, see page2 for reference. 8. Snap pinion cap over shaft at bottom of closer or install (optional) cover with using small screw (j).

Option C – Parallel Arm Installation

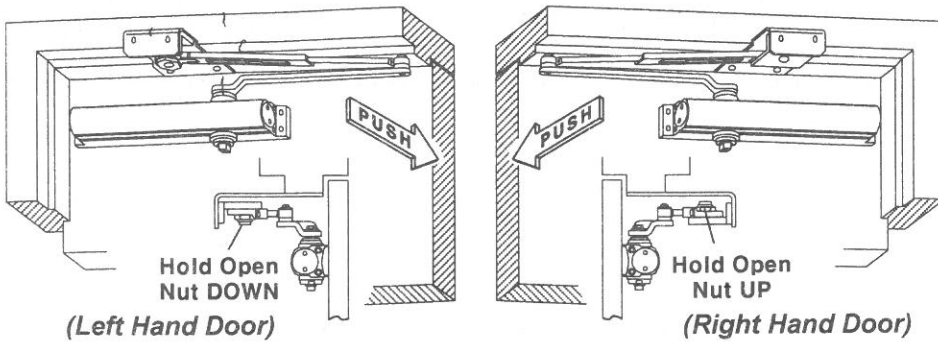
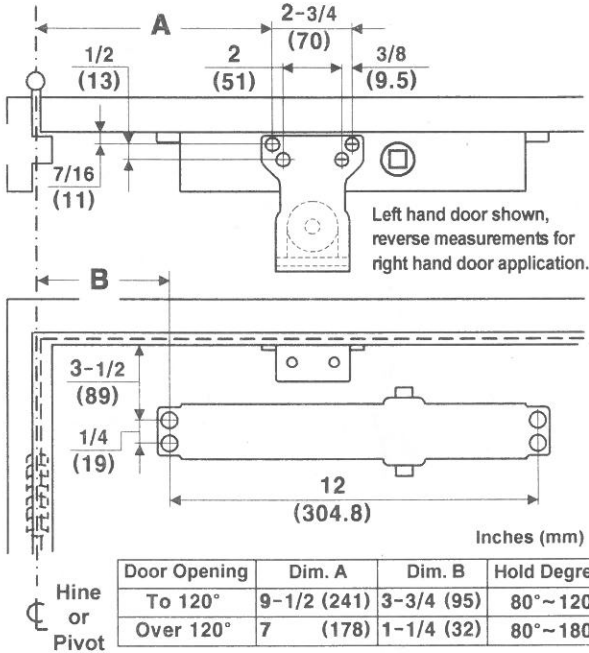


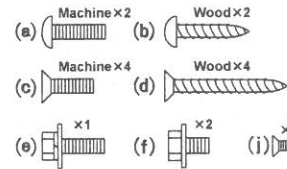
Diagram for Option C



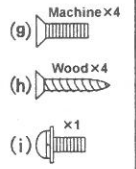
Option C instructions: 1. Using the measurements from diagram C, mark screw hole center locations. Mark four(4) location on door to mount door closer and four(4) locations on inside frame to mount parallel bracket. 2. Drill pilot holes in door and frame, drill 7/32" (5.5mm) diameter holes for wood screws or drill and tap #7 (.201" diameter) for 1/4-20 machine screws. 3. Install Parallel bracket to frame using screws (g) or (h). 4. Mount closer onto 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 (see figure 2), install ROD and of forearm to bracket using the screw (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 page 2 for reference. 9. Snap pinion cap over shaft at bottom of closer or install (optional) cover with using small screw (j).

Components

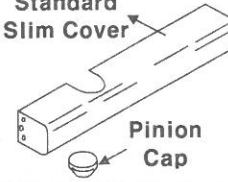
Screw Pack No.1



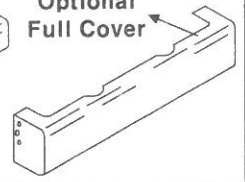
No.2



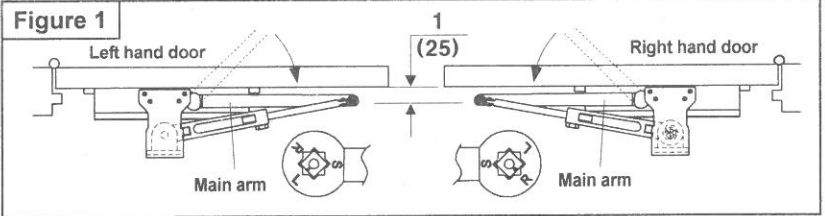
Standard Slim Cover



Optional Full Cover



Pinion Cap



DOOR CLOSER ADJUSTMENT

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

CLOCKWISE FOR FULL NUMBERS (+)



COUNTERCLOCKWISE FOR NEGATIVE NUMBERS (-)

Use 4mm Hex For this
4mm Wrench

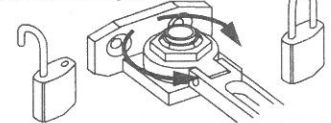
Power Adjusting Screw

INCREASE
DECREASE

POWER ADJUSTMENT CHART

DOOR CLOSER SIZE	FULL TURNS OF POWER ADJUSTING SCREW	APPLICABLE DOOR LEAF WIDTH		APPLICABLE DOOR WEIGHT
		INTERIOR	EXTERIOR (SWING OUT)	
BF	- 8	5 lb-f	-	-
1	- 6	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	+ 5	48" (1.22m)	42" (1.07m)	143~187 LBS (65~85 Kg)
5	+ 9	54" (1.37m)	48" (1.22m)	187~264 LBS (85~120 Kg)
6	+ 12	58" (1.47m)	54" (1.37m)	264~330 LBS (120~150 Kg)

Set Hold Open



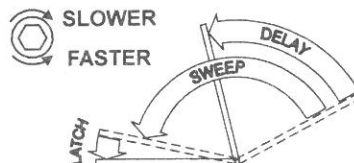
BACK Adjusting

DELAYED Adjusting

LATCH Adjusting

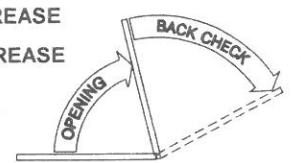
SWEEP Adjusting

SLOWER
FASTER



CLOSING CYCLE

INCREASE
DECREASE



OPENING CYCLE



The closing force adjustable from a size 1 to a size 6, as outlined in ANSI Standard A156.4. When these series of door closers are installed and adjusted to conform to ADA reduced opening force requirements (5 lbs max.) for interior doors, they may not have adequate closing force to reliably close and latch door. Power adjustments charted on this page are recommended where possible, to ensure proper door control.



By law the Americans with Disabilities Act (ADA) may require that door closer installation comply with accessibility guidelines.