



Hold Open Door Closers

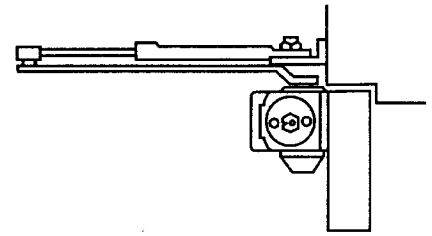
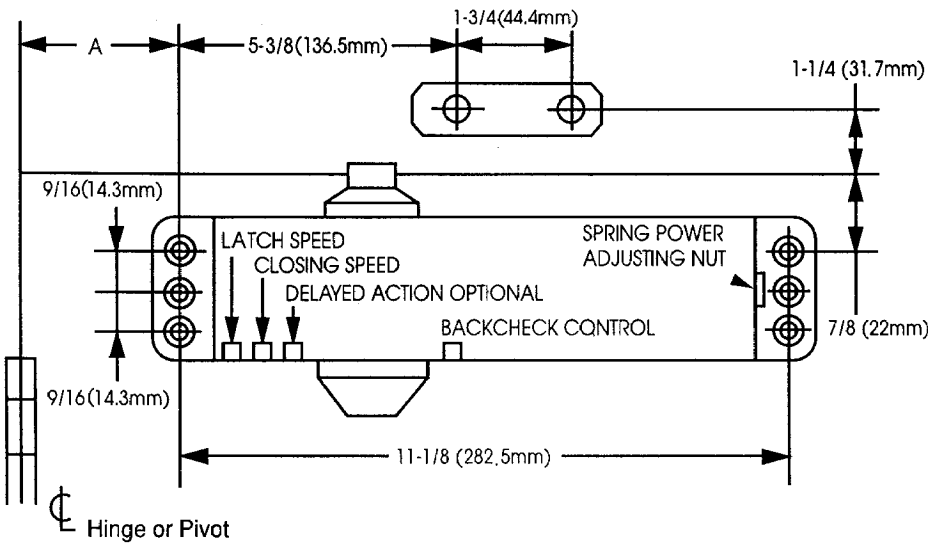
Model 900 Series

Surface Mounted

Adjustable & Preset "Back-Check"

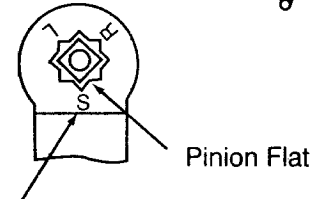
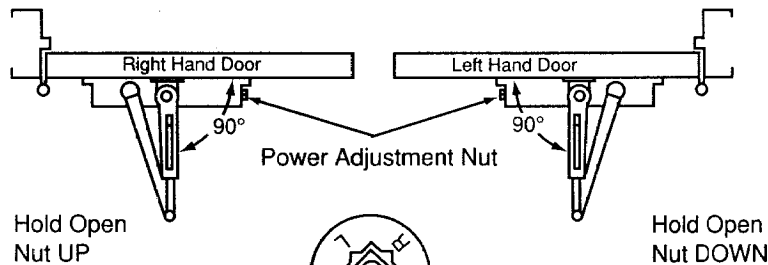
Optional BF/DA

Installation Instructions for REGULAR ARM (PULL SIDE) Mounting



Do Not Scale Drawing
 Right Hand Door Shown
 Same dimensions apply for Left Hand Door measured from centerline of pivot point
 Dimensions are in $\frac{\text{inches}}{\text{(mm)}}$

OPENING	DIM.A
To 120°	7-3/32 (180mm)
120° - 180°	3-15/16 (100mm)



INSTALLATION INSTRUCTIONS

- Select degree of opening from table and use template dimensions shown in above, mark six (6) holes on door for door closer and two (2) holes on frame for arm shoe.
- Drill pilot holes in door and frame for #14 all-purpose screws or drill and tap for 1/4 - 20 machine screws.
- Install adjustable forearm/arm shoe assembly to frame using screws provided.
- Install main Arm to tap pinion shaft using screw provided.
- Mount closer on door using screws provided. **SPRING POWER ADJUSTING NUT MUST BE POSITIONED AWAY FROM HINGE EDGE.**
- 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.
- Snap pinion cap over shaft at bottom of closer (When using full cover, pinion cap is not necessary)
- Adjust closing speed, back check control and spring power of door, following instructions as shown page 6 or "How To Adjust Spring Power"
- Remove hold open bracket and holder loop from arm assembly. Fasten hold open bracket and holder loop to frame. **Hold Open Nut UP** on Right Hand door. **Hold Open Nut DOWN** on Left Hand door.

HOW TO ADJUST SPRING POWER

BE NOTED THAT 900 SERIES ARE SET DOWN AS DOOR CLOSER SIZE 3 FROM THE FACTORY
 EX: SIZE 2 CLOSER CAN BE MADE BY ROTATING SPRING ADJUSTING NUT ANTI-CLOCKWISE 3 TURNS
 BECAUSE IT WAS SET DOWN AS SIZE 3 FROM THE FACTORY ORIGINALLY. ALSO IN A SAME WAY,
 SIZE 6 CLOSER CAN BE MADE BY ROTATING SPRING ADJUSTING NUT CLOCKWISE 9 TURNS.

DOOR CLOSER SIZE		CLOCKWISE TURNS OF ADJUSTING NUT		APPLICABLE DOOR SIZE		APPLICABLE DOOR WEIGHT
900-P/PDA (SIZE 1/2-6)	900-FBF/BFDA (SIZE 1/2-4)	900-P/PDA (SIZE 2-6)	900-PBF/BFDA (SIZE 1/2-4)	INTERIOR	EXTERIOR (SWNG OUT)	
NOT RECOMMENDED USE 900-PBF/BFDA	1/2	N/A	- 9	28" (0.71m)	24" (0.51m)	22-33 Lbs (10-15kg)
NOT RECOMMENDED USE 900-PBF/BFDA	1	N/A	- 6	32" (0.81m)	28" (0.71m)	33-55 Lbs (15-30kg)
2	2	- 3	- 3	36" (0.91m)	32" (0.81m)	66-88 Lbs (30-45kg)
3	3	0 (FACTORY SET)	0 (FACTORY SET)	42" (1.07m)	38" (0.91m)	99-143 Lbs (45-85kg)
4	4	3	3	48" (1.22m)	42" (1.07m)	143-187 Lbs (65-85kg)
5	NOT RECOMMENDED USE 900-P/PDA	6	N/A	54" (1.37m)	48" (1.22m)	187-264 Lbs (85-120kg)
6	NOT RECOMMENDED USE 900-P/PDA	9	N/A	58" (1.47m)	52" (1.32m)	264-330 Lbs (120-150kg)