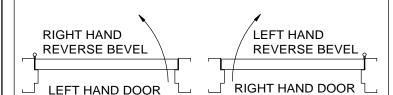


# 8900 SPA, SPAT, SPAK HEAVY DUTY SUPER PARALLEL ARM MOUNT AND ACCESSORY PLATE DP89

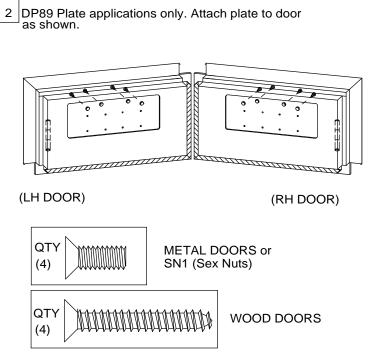
1 (REFERENCE UNIT CARTON FOR ACCESSORIES AND OPTIONS SUPPLIED)

Determine hand of door. according to template.

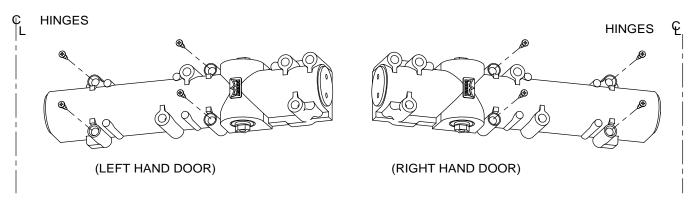
Prepare door and frame

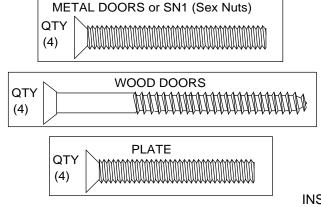


CAUTION: SEX NUTS ARE REQUIRED FOR ATTACHMENT OF COMPONENTS TO UNREINFORCED DOORS AND TO WOOD OR PLASTIC FACED COMPOSITE TYPE FIRE DOORS, UNLESS AN ALTERNATIVE METHOD IS IDENTIFIED IN THE INDIVIDUAL DOOR MANUFACTURER'S LISTINGS.

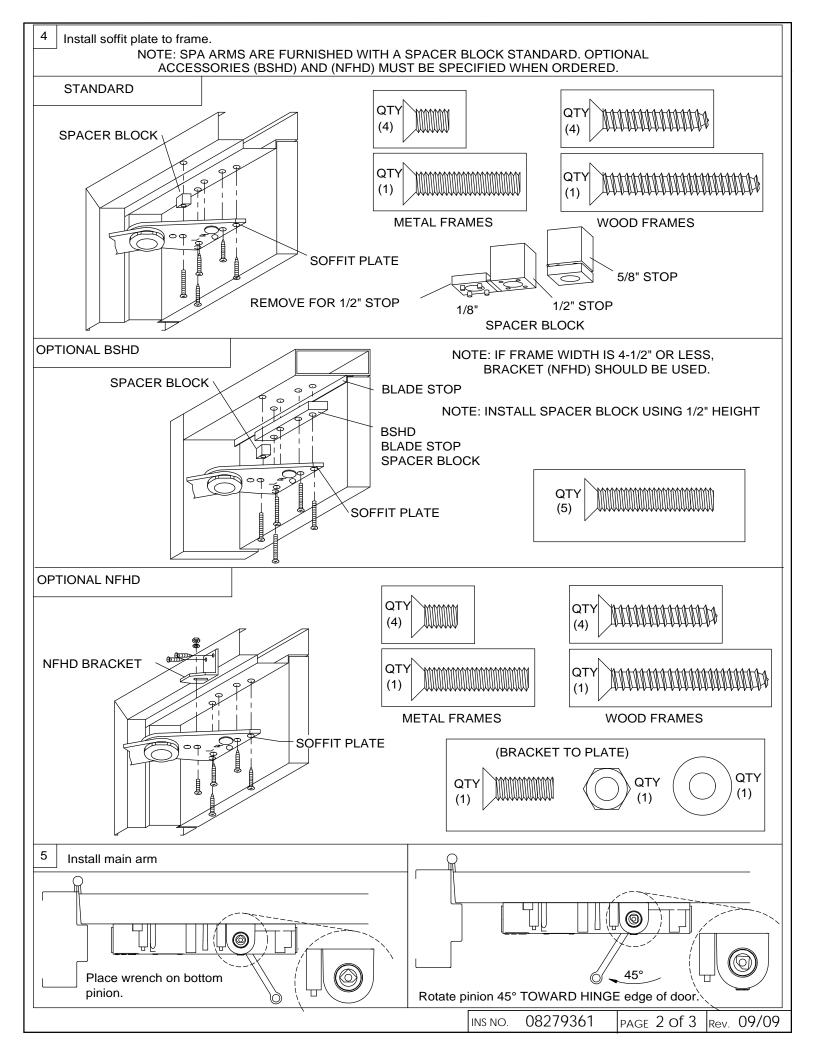


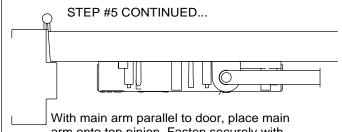
3 Attach closer to door or plate with spring adjustment facing hinges.



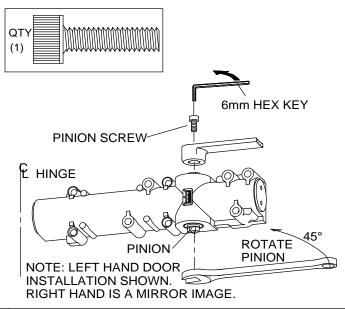


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With main arm parallel to door, place mair arm onto top pinion. Fasten securely with pinion screw.



Adjust spring tension, if required, using a 1/4" wrench.

NOTE: 8916 supplied with size 4 spring setting.

8956 supplied with size 6 setting.



# CRITICAL



SPRING TENSION ADJUSTER

### 8916 ONLY

BARRIER-FREE OPENINGS - Take an opening force reading from the pull on the door. If required, adjust the spring tension to meet the barrier-free requirement. Maximum number of turns counter clockwise=8. Maximum number of turns clockwise =14. Depending on opening conditions, a door adjusted to meet barrier-free forces may not have sufficient power to reliably close and latch the door.

## NON-BARRIER-FREE OPENINGS - Adjust according to chart.

CLOSER TYPE	DOOR WIDTH		FULL TURNS OF SPRING	SPRING SIZE
''''	EXTERIOR	INTERIOR	ADJUSTER	0.22
	-	2'-6"	-12	3
	2'-6"	3'-0"	0	4
8916	3'-0"	3'-6"	+4	5
	3'-6"	4'-0"	+12	6
	3'-0"	3'-6"	-6	5
8956	3'-6"	4'-0"	0	6
	4'-0"	-	+6	6+

# ULC LABELED UNITS ONLY

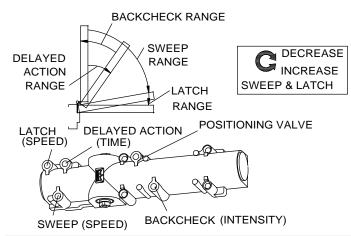
ADJUST SPRING TENSION ACCORDING TO THE FOLLOWING CHART.

	CLOSER TYPE	MAX. DOOR WEIGHT	SPRING SIZE	FULL TURNS OF SPRING ADJUSTING NUT
		100	3	-12
	8916	125	4	0
	8916	150	5	+4
		200	6	+12
8		150	5	-6
	8956	200	6	0
		250	6+	+6

Adjust sweep, latch and backcheck valves.
Closing time from 90° to 15° (sweep range) is generally adjusted to take a minimum of 3 seconds.
Closing time from 15° to fully closed (latch range) should take a minimum of 1.5 seconds. Backcheck intensity should be adjusted to insure that the door is under control during the opening cycle protecting the door and objects behind the door. Closing the backcheck positioning valve fully clockwise advances the backcheck range approximately 15°. Backcheck position valve is shipped in the "on" position (to turn off, rotate valve counterclockwise only 1/2 turn).

Optional delayed action offers additional closing speed control when extra time is required to pass through the door. All valve adjustments are made with a 3/32" hex key.

CAUTION: DO NOT REMOVE VALVES.

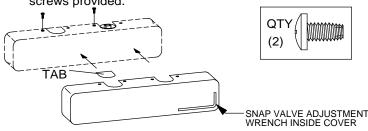


INCREASE DECREASE

BACKCHECK OR DELAYED ACTION

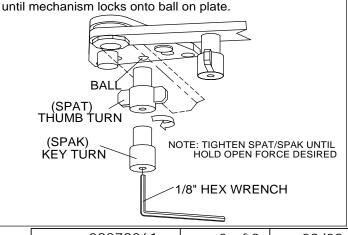
NOTE: DELAYED ACTION IS AN OPTIONAL FEATURE.

Place tab in cover slot opposite main arm.
Place cover over closer and fasten securely with screws provided.



NOTE: LEFT HAND INSTALLATION SHOWN. RIGHT HAND IS A MIRROR IMAGE.

9 (HOLD OPEN UNITS ONLY) Engage SPAT/SPAK with turn. Open door



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