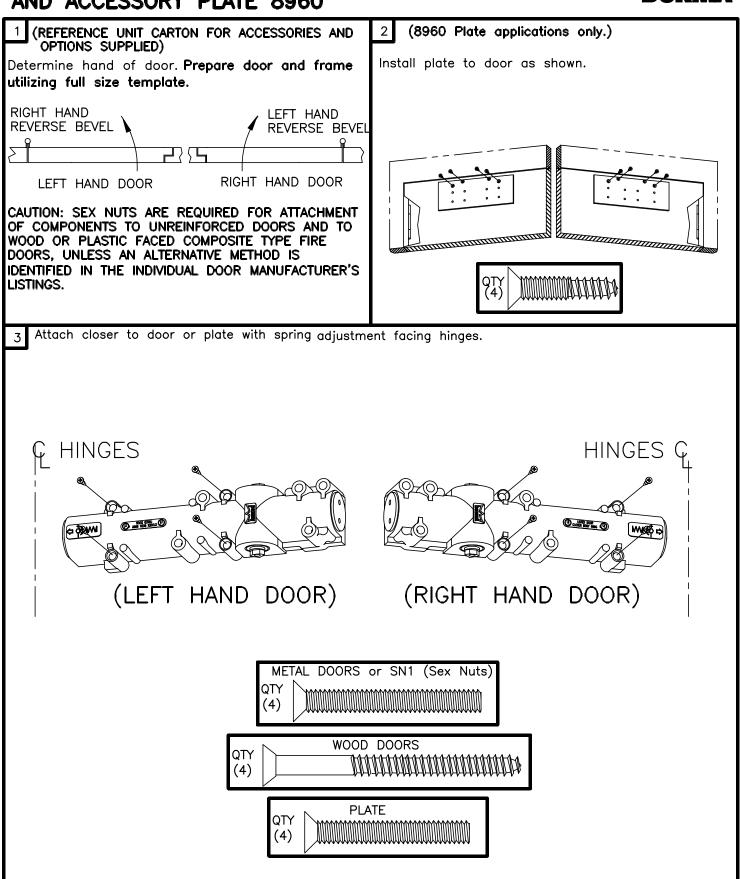
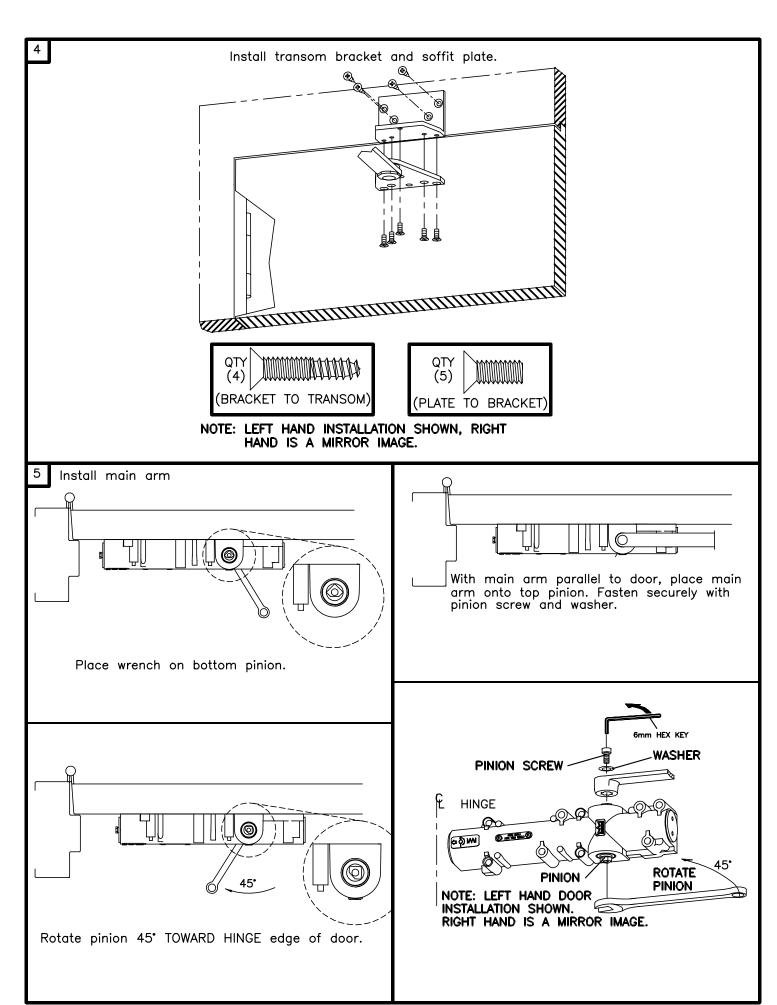
# 7901/8901, 7905/8905 SPA/SPA HO X FT102 PARALLEL ARM MOUNT AND ACCESSORY PLATE 8960







Adjust spring tension, if required, using a 1/4" wrench. NOTE: 7901/8901 supplied with size 3 spring setting.

7905/8905 supplied with size 6 setting.



SPRING TENSION-**ADJUSTER** 

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7901/8901 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 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
IIFE	EXTERIOR	INTERIOR	ADJUSTER	SIZL
	-	2'-6"	0	3
	2'-6"	3'-0"	+4	4
7901/8901	3'-0"	3'-6"	+9	5
	3'-6"	4'-0"	+13	6
	3'-0"	3'-6"	-8	5
7905/8905	3'-6"	4'-0"	0	6
	4'-0"	_	+4	6+

ULC LA	BELED	UNITS ONL	<u>.Y</u>					
ADJUST	SPRING	3 TENSION	ACCORDING	TO '	THE	<b>FOLLOWII</b>	NG	CHART.
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CLOSER TYPE	MAX. DOOR WEIGHT	SPRING SIZE	FULL TURNS OF SPRING ADJUSTING NUT
	100	3	0
7901/8901	125	4	+4
	150	5	+9
	200	6	+13
	150	5	-8
7905/8905	200	6	0
	250	6+	+4

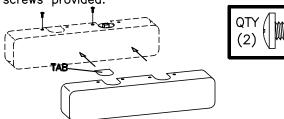
Adjust sweep, latch and backcheck valves. Closing time from 90° to 15° (sweep range) is generally adjusted to take a minimum of 3 seconds. Closing time from 15° to fully closed (latch range) should take a minimum of 1.5 seconds. Backcheck intensity should be adjusted to insure that the door is under control during the opening cycle protecting the door and objects behind the door. Thinking backcheck feature provides full intensity for doors opened quickly and less intensity for doors opened slower. Closing the backcheck positioning valve (clockwise turns) advances the backcheck range approximately 15°. 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. BACKCHECK RANGE SWEEP DECREASE DELAYED **RANGE** INCREASE **ACTION** RANGE : SWEEP & LATCH LATCH **RANGE** DELAYED ACTION POSITIONING VALVE (8900 Series only) LATCH " (SPEED) (TIME) 00 m(\$0 0

INCREASE G DECREASE BACKCHECK OR DELAYED ACTION NOTE: DELAYED ACTION IS AN OPTIONAL FEATURE.

BACKCHECK (INTENSITY)

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

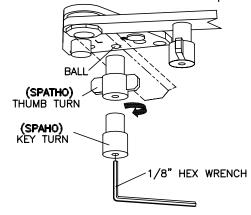


NOTE: LEFT HAND INSTALLATION SHOWN. RIGHT HAND IS A MIRROR IMAGE.

### 9 (HOLD OPEN UNITS ONLY)

SWEEP (SPEED)

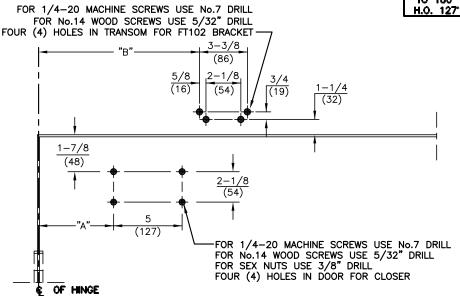
Engage SPATHO/SPAKHO with 1/4 turn. Open door until mechanism locks onto ball on plate.

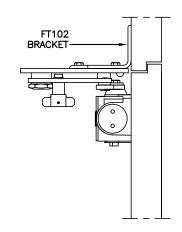


## WITHOUT PLATE

- 1. DO NOT SCALE DRAWING.
  2. DIMENSIONS ARE IN INCHES/(MM).
  3. LEFT HAND DOOR SHOWN.
- 4. 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
- 5. MINIMUM DOOR WIDTH 26".
- TEMPLATING BASED ON 4-1/2" X 4-1/2" BUTT HINGES.
- 7. MAXIMUM OPENING 180°

ANGLE OF OPENING HOLD OPEN	DIM. "A" CLOSER	DIM. "B" FT102 BRACKET
TO 100°	<u>7-1/8</u>	10-1/16
H.O. 90°	(181)	(256)
TO 180°	3-1/2	6-7/16
H.O. 127°	(89)	(164)





## 8960 PLATE

- 1. DO NOT SCALE DRAWING.

- DO NOT SCALE DRAWING.
   DIMENSIONS ARE IN INCHES/(MM).
   LEFT HAND DOOR SHOWN.
   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
   MINIMIAL DOOR WINTH 26"
- 5. MINIMUM DOOR WIDTH 26".
- 6. TEMPLATING BASED ON 4-1/2" X 4-1/2" BUTT HINGES.

  7. MAXIMUM OPENING 180°

ANGLE OF OPENING HOLD OPEN	DIM. "A" CLOSER	DIM. "B" FT102 BRACKET
TO 100°	<u>7-1/8</u>	10-1/16
H.O. 90°	(181)	(256)
TO 180°	3-1/2	6-7/16
H.O. 127°	(89)	(164)

