

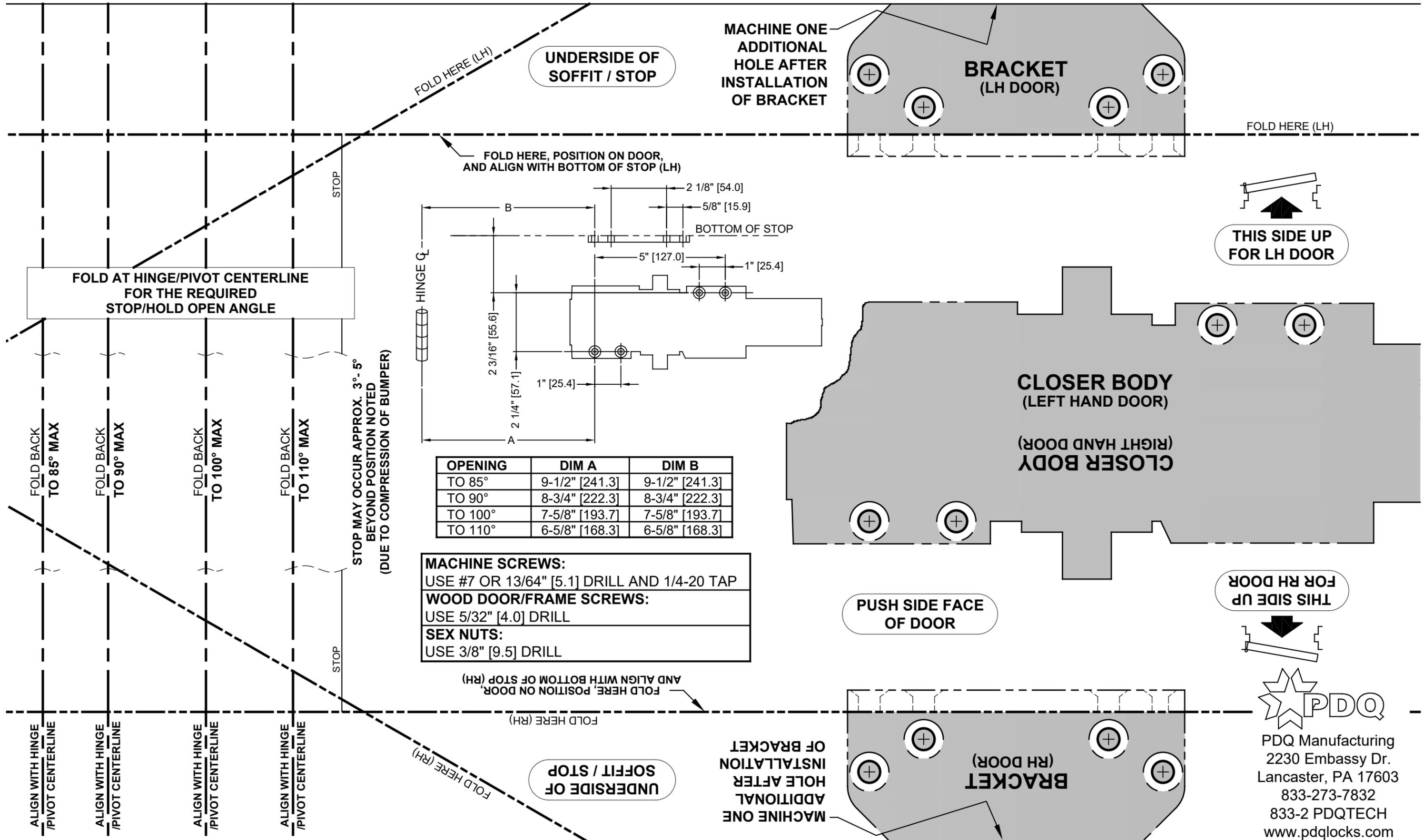
# 7101 DOOR CLOSER INSTRUCTION SHEET

PARALLEL ARM INSTALLATION WITH STOP - PUSH SIDE - DS (NHO) & DSHO (HO) - 110° MAX

INSTRUCTION: 719354

REV. 2

09-06-19



UNDERSIDE OF SOFFIT / STOP

MACHINE ONE ADDITIONAL HOLE AFTER INSTALLATION OF BRACKET

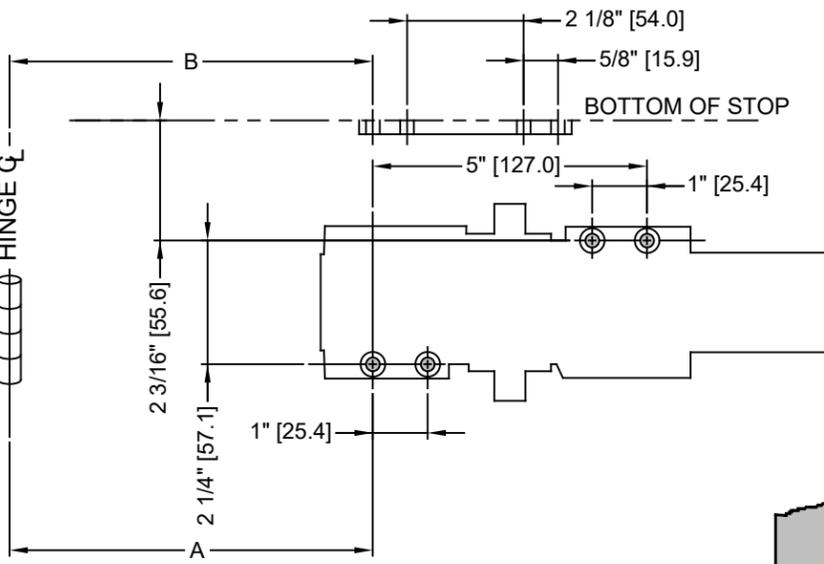
BRACKET (LH DOOR)

FOLD HERE (LH)

FOLD HERE, POSITION ON DOOR, AND ALIGN WITH BOTTOM OF STOP (LH)

THIS SIDE UP FOR LH DOOR

FOLD AT HINGE/PIVOT CENTERLINE FOR THE REQUIRED STOP/HOLD OPEN ANGLE



OPENING	DIM A	DIM B
TO 85°	9-1/2" [241.3]	9-1/2" [241.3]
TO 90°	8-3/4" [222.3]	8-3/4" [222.3]
TO 100°	7-5/8" [193.7]	7-5/8" [193.7]
TO 110°	6-5/8" [168.3]	6-5/8" [168.3]

**MACHINE SCREWS:**  
USE #7 OR 13/64" [5.1] DRILL AND 1/4-20 TAP

**WOOD DOOR/FRAME SCREWS:**  
USE 5/32" [4.0] DRILL

**SEX NUTS:**  
USE 3/8" [9.5] DRILL

CLOSER BODY (LEFT HAND DOOR)

CLOSER BODY (RIGHT HAND DOOR)

PUSH SIDE FACE OF DOOR

THIS SIDE UP FOR RH DOOR

UNDERSIDE OF SOFFIT / STOP

MACHINE ONE ADDITIONAL HOLE AFTER INSTALLATION OF BRACKET

BRACKET (RH DOOR)

FOLD HERE (RH)

FOLD BACK TO 85° MAX

FOLD BACK TO 90° MAX

FOLD BACK TO 100° MAX

FOLD BACK TO 110° MAX

ALIGN WITH HINGE /PIVOT CENTERLINE

STOP MAY OCCUR APPROX. 3°-5° BEYOND POSITION NOTED (DUE TO COMPRESSION OF BUMPER)



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## PARALLEL ARM INSTALLATION WITH STOP - PUSH SIDE - DS (NHO) & DSHO (HO) - 110° MAX

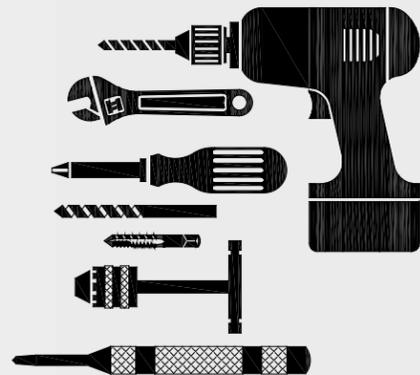
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REV. 2 09-06-19

- 1**
1. Confirm this sheet is correct for your product and application.
  2. Read the complete instruction sheet before starting installation.
  3. Incorrectly installed or adjusted door closers can cause personal injury or property damage.
  4. To ensure safe operation, closers should be examined and serviced regularly.

- 2**
1. See reverse side of this sheet to machine door & frame.
  2. Dimensions based on 4-1/2" x 4-1/2" full mortise butt hinges with 5/8" stop and 1/8" door gap.
  3. Confirm door & frame are properly reinforced.
  4. Sex nuts required for un-reinforced or composite fire doors.
  5. Do not install closer on the exterior (weather) side of building.

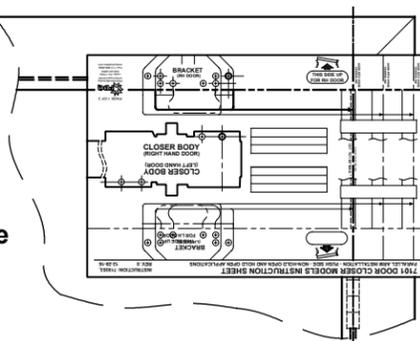
**3 TOOLS REQUIRED:**

1. Power drill
2. 10mm box/combo wrench
3. Phillips screw driver
4. #7 or 13/64" drill bit and 1/4-20 tap (machine screws)
5. Tap handle
6. 5/32" drill bit (wood screws)
7. 3/8" drill bit (sex nuts)
8. Center punch



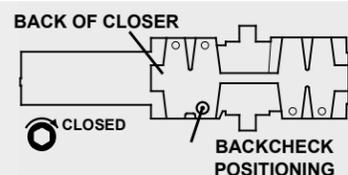
**4 PREPARE DOOR AND FRAME:**

1. Select degree of stop/opening for stop/hold open. Maximum opening = 110°
2. Determine door hand.
3. Align & attach full size template (see reverse side).
4. Mark door & frame with center punch.
5. Remove template before machining door & frame.



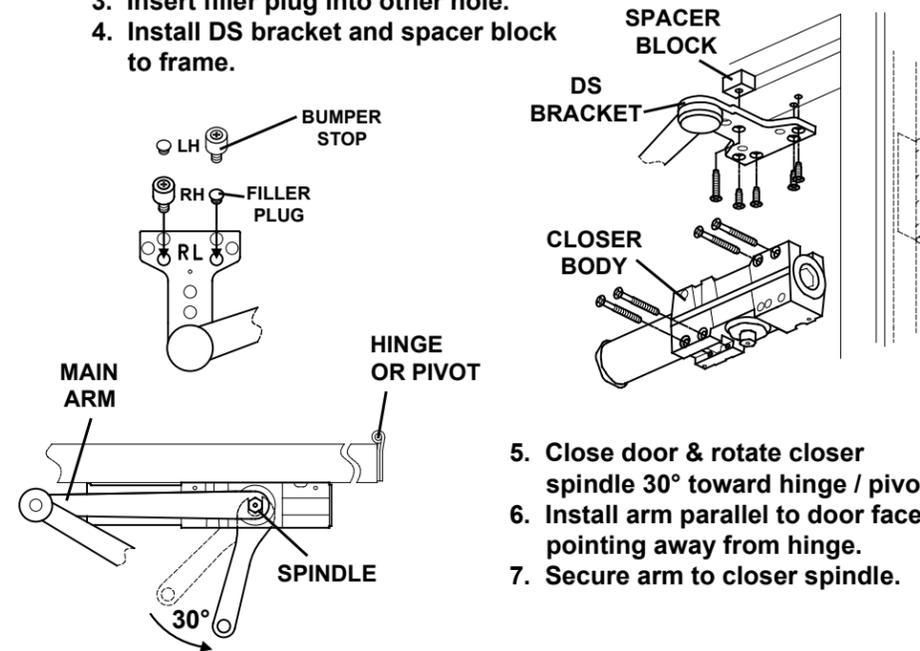
**5 BACKCHECK POSITIONING:**

1. Completely close backcheck positioning valve.
2. Valve must be closed before installing closer.



**6 INSTALL CLOSER AND ARM:**

1. Attach closer body to door. Tube points away from hinges.
2. Install bumper stop into DS bracket. Bracket is stamped: "L"(left hand) and "R"(right hand).
3. Insert filler plug into other hole.
4. Install DS bracket and spacer block to frame.

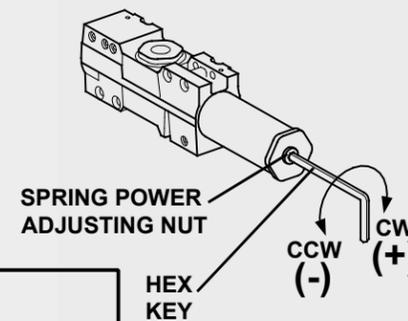


5. Close door & rotate closer spindle 30° toward hinge / pivot.
6. Install arm parallel to door face, pointing away from hinge.
7. Secure arm to closer spindle.

**7 ADJUST SPRING POWER:**

1. Use 4 mm hex key provided to adjust to size on chart. Clockwise (CW) turns increase spring power (+). Counter-clockwise (CCW) turns decrease spring power (-).

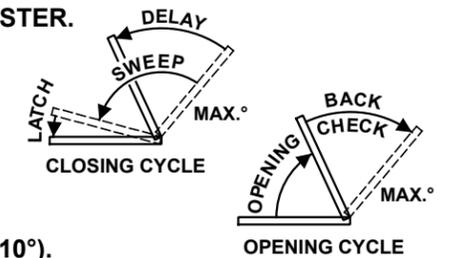
7100 Series closers can be adjusted to meet ADA Barrier Free (BF) applications. Compliance with ADA/BF requirements may result with door not fully closing and latching. Check with local AHJ. Closer size may vary due to site conditions.



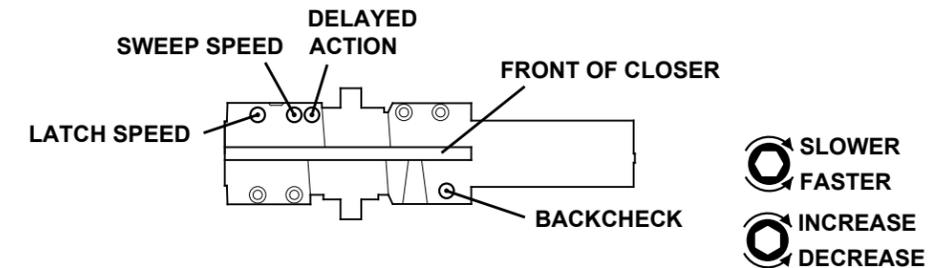
SIZE	DOOR WIDTH		360° TURNS
	INTERIOR	EXTERIOR	
BF	5 LBF ON 36"	--	-15 (CCW)
1	32" [812.8]	28" [711.2]	-12 (CCW)
2	36" [914.4]	32" [812.8]	-7 (CCW)
3	42" [1066.8]	36" [914.4]	0 (PRESET)
4	48" [1219.2]	42" [1066.8]	+4 (CW)
5	54" [1371.6]	48" [1219.2]	+6 (CW)
6	58" [1473.2]	54" [1371.6]	+9 (CW)

**8 CONTROL ADJUSTMENTS:**

- Closing time of 3-7 seconds is typical. More time may be needed for ADA/BF access. Clockwise (CW) = SLOWER. Counter-clockwise (CCW) = FASTER. DO NOT REMOVE VALVES

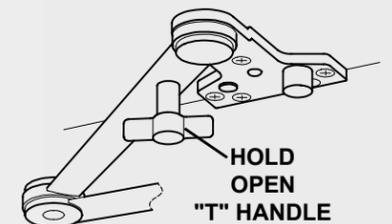


1. Use hex key provided.
2. Adjust SWEEP (closing max.°- 10°).
3. Adjust LATCH (closing 10°- 0°).
4. Adjust BACKCHECK resistance (opening 70°- max.°). DO NOT COMPLETELY CLOSE VALVE
5. Adjust (optional) DELAYED ACTION (closing max.°- 70°); Provides additional hesitation for access (ADA/BF) through door.



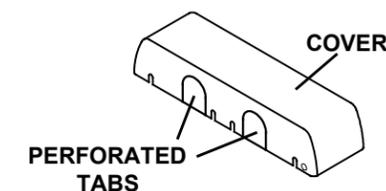
**9 OPTIONAL HOLD OPEN:**

1. DSHO arm has an optional thumb turn "T" handle.
2. A 1/4 rotation of "T" engages or disengages hold open.
3. Door can also be manually pulled in and out of hold open without rotating the "T" handle.
4. Greasing detent ball is recommended to prevent wear.



**10 INSTALL COVER:**

1. Remove correct tab so cover slides over spindle.
2. Install cover over closer.
3. Secure with screws provided.



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