

Installation Instructions NSK800 series Door Closer

Non-Hold Open Models (Body size No.4)
Adjustable size : 1(BF) thru 6
Optional Feature : Delayed Action
Back-Check



An Incorrectly installed or improperly adjusted door closer can cause property damage or personal injury. these installations should be followed to avoid the possibility of misapplication or maladjustment. Read and follow instructions carefully.



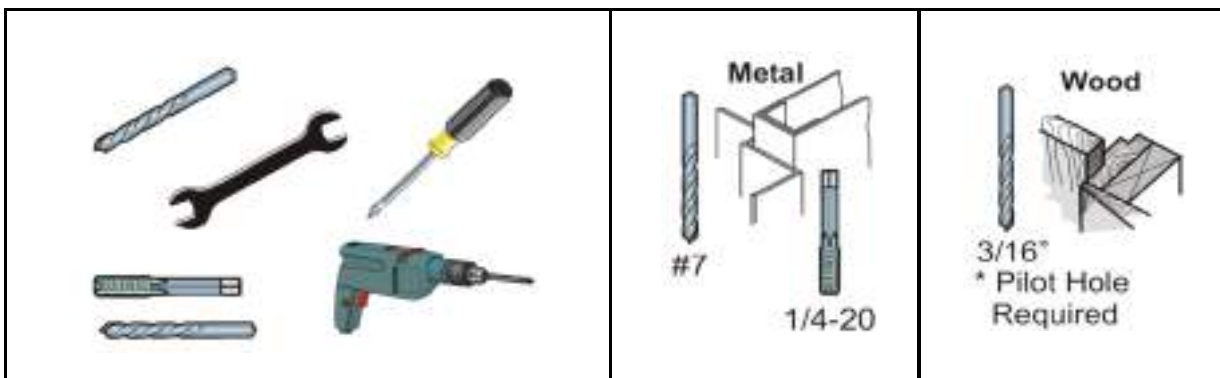
Note : Use this instruction sheet for installation sequence and closer adjustments only.

- ✓ Door should be hung on ball bearing or anti-friction hinge.
- ✓ A separate door stop is recommended.
- ✓ Door and frame must be properly reinforced.
- ✓ Adjusting closing time speed between 3 and 7 seconds from 90° ~ 0°.
- ✓ These door closers should NOT be installed on the exposed side (weather side) of exterior doors.

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Recommended tools



To ensure that your installation proceeds smoothly, please read this instructions carefully before begin.

Samhwa Precision Co., Ltd./Korea
An ASSA ABLOY Group Company

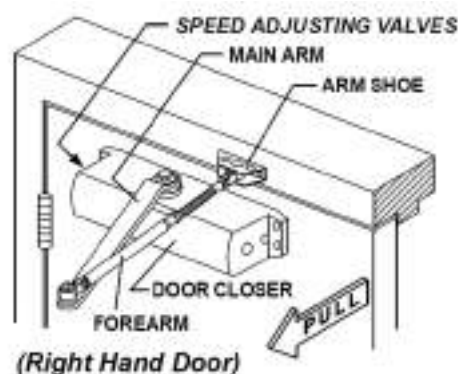
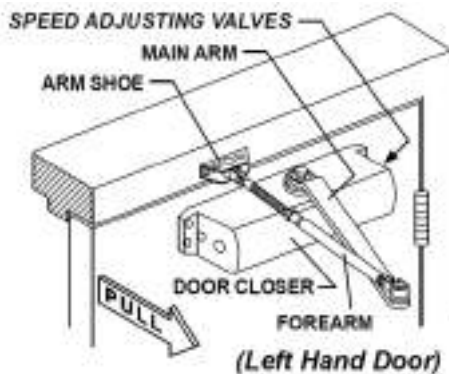
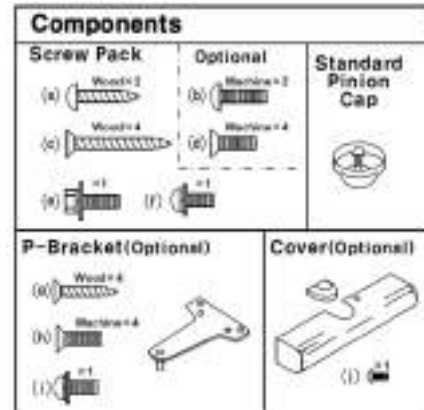
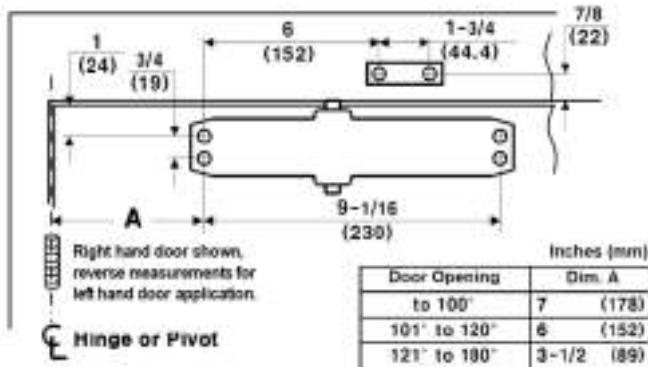
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NSK800 series Door Closer

Installation Instructions – Regular Arm Installation

Diagram A



1. Using the measurements from diagram A, mark screw hole center locations. Mark four(4) location on door to mount door closer and two(2) locations on frame to mount arm shoe.
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 adjustable forearm/arm shoe to frame using screws (a) or (b).
4. Mount closer onto door using screws (c) or (d).



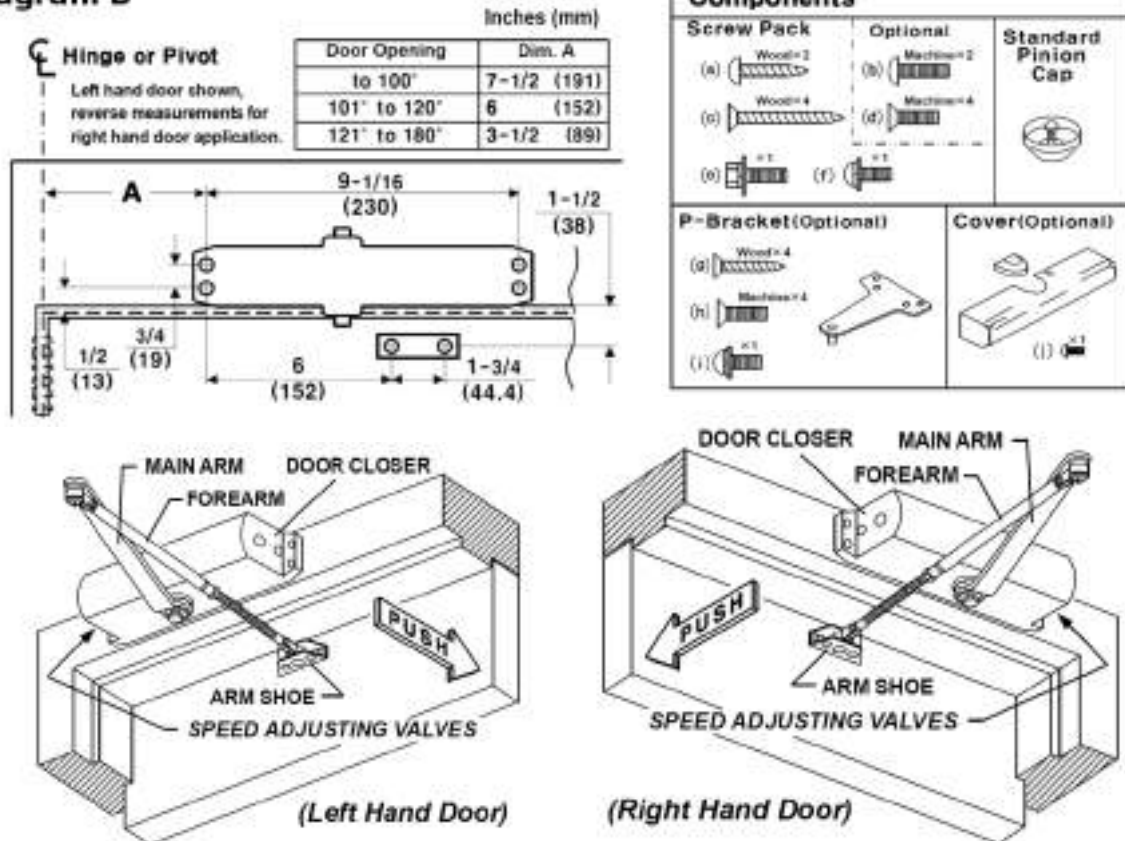
SPEED ADJUSTING VALVES MUST BE POSITIONED TOWARD HINGE SIDE.

5. Install main arm to top 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 page 5 for reference.
8. Snap pinion cap over shaft at bottom of closer or install (optional) cover with using small screw(j).

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Installation Instructions – Top Jamb Installation

Diagram B



1. Using the measurements from diagram B, mark screw hole center locations. Mark four(4) location on door to mount door closer and two(2) locations on frame to mount arm shoe.
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 adjustable forearm/arm shoe to frame using screws (a) or (b).
4. Mount closer onto door using screws (c) or (d).



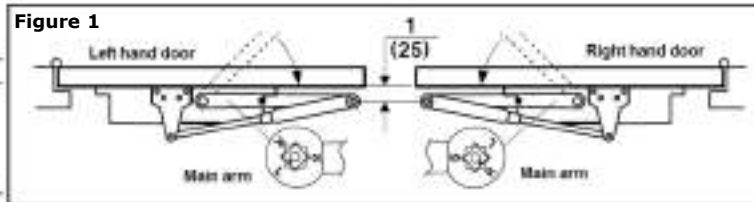
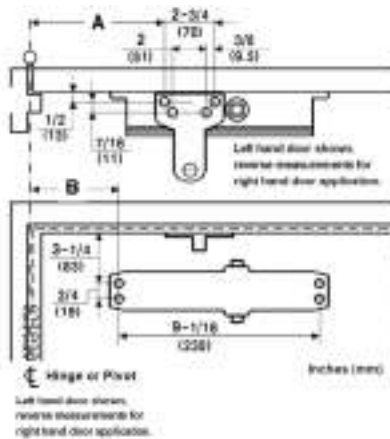
SPEED ADJUSTING VALVES MUST BE POSITIONED TOWARD HINGE SIDE.

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 page 5 for reference.
8. Install (standard) cover with using small screw (j) or snap pinion cap over shaft at bottom of closer.

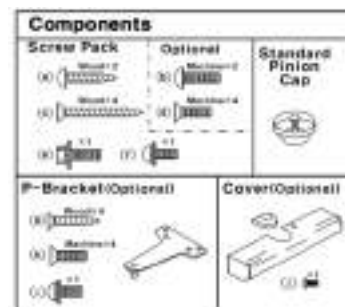
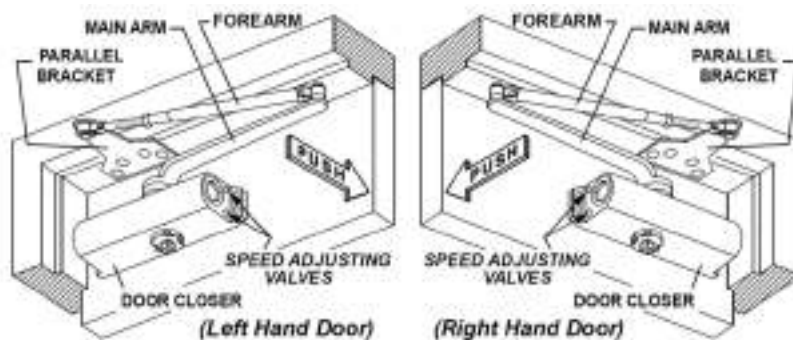
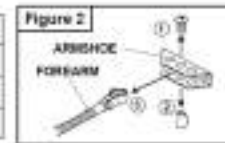
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Installation Instructions – Parallel Arm Installation

Diagram C



Door Opening	Dim. A	Dim. B
To 100"	9-1/4 (235)	7-5/8 (194)
101" to 130"	7-3/4 (197)	6-1/8 (156)
131" to 180"	5-3/4 (146)	4-1/8 (105)

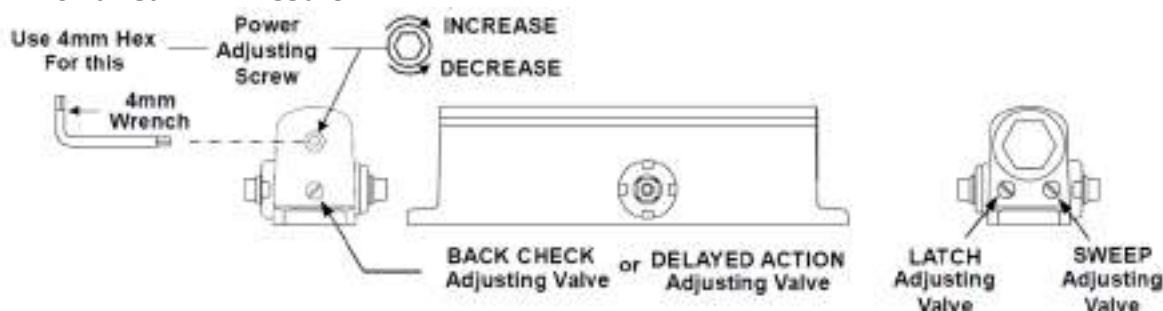


1. Using the measurements from diagram C, mark screw hole center locations. Mark four(4) location on door to mount door closer and four(4) locations on inside frame to mount parallel bracket.
2. Drill pilot holes in door and frame, drill 7/32"(5.5mm) diameter holes for wood screws or drill and tap #7(.201" 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 figure2), 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 5 for reference.
9. Install (standard) cover with using small screw (j) or snap pinion cap over shaft at bottom of closer.

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Installation Instructions – Adjustment Chart

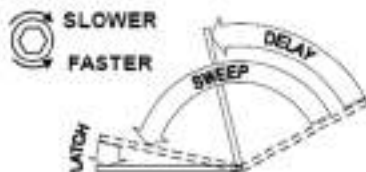
CAUTION!! Do not turn speed adjusting valve more than two(2) full turns counter-clockwise from its order not back the valves out of closer or a leak will result.



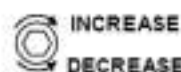
CLOCKWISE FOR
FULL NUMBERS (+)



COUNTERCLOCKWISE FOR
NEGATIVE NUMBERS (-)



CLOSING CYCLE



OPENING CYCLE

DOOR CLOSER SIZE	FULL TURNS OF POWER ADJUSTING SCREW	APPLICABLE DOOR LEAF WIDTH		APPLICABLE DOOR WEIGHT
		INTERIOR	EXTERIOR (SWING OUT)	
BF	-	5 lb*F	-	-
1	- 6	32" (0.81m)	28"(0.71m)	33~66 LBS (15~30Kg)
2	- 4	36"(0.91m)	32"(0.81m)	66~99LBS (30~45Kg)
3	0(PRE SET)	42"(1.07m)	36"(0.91m)	99~143LB (45~55Kg)
4	+ 5	48"(1.22m)	42"(1.07m)	143~187LBS (65~85Kg)
5	+ 9	54"(1.37m)	48"(1.22m)	187~264LBS (85~120Kg)
6	+ 12	58"(1.47m)	54"(1.37m)	264~330LBS (120~150Kg)



The closing force for series NSK800 door closers is 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 confirm 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