

Installation Instructions



TRADEMARK
HARDWARE

Norton®
ASSA ABLOY

CAUTION

An incorrectly installed or improperly adjusted door closer can cause property damage or personal injury. These instructions should be followed to avoid the possibility of misapplication or misadjustment.

CAUTION

Hold Open Door Closers 1700H

WARNING

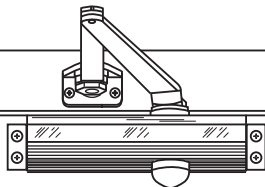
This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

Select application from illustrations below... Proceed to page shown. Closer is shown without cover.

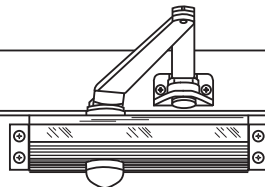
Regular Arm Installation

Closer on hinge (pull) side of door.

See Page 2



Left Hand Door – LH
Right Hand Reverse – RHR



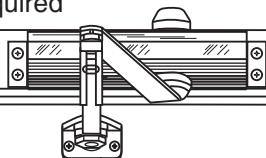
Right Hand Door – RH
Left Hand Reverse – LHR

Top Jamb Installation

Closer on frame face on stop (push) side of door.

See Page 3

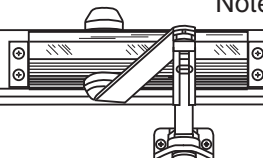
Note: Drop Plate Required



Right Hand Door – RH
Left Hand Reverse – LHR

Hinge Edge of Door

Note: Drop Plate Required



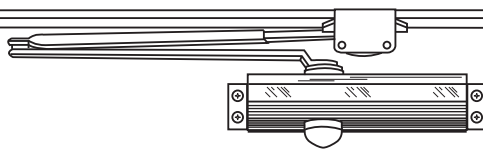
Left Hand Door – LH
Right Hand Reverse – RHR

Hinge Edge of Door

Parallel Arm Installation

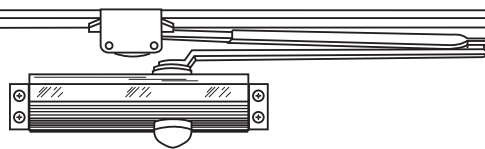
Closer on door on stop (push) side of door.

See Page 4



Right Hand Door – RH
Left Hand Reverse – LHR

Hinge Edge of Door

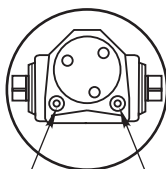


Left Hand Door – LH
Right Hand Reverse – RHR

Hinge Edge of Door

Components:

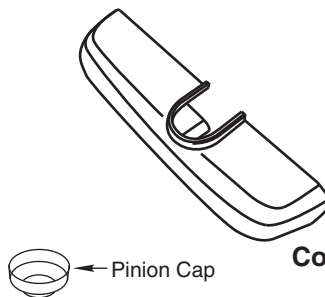
Closer Body



Latch Valve (2)

Sweep Valve (1)

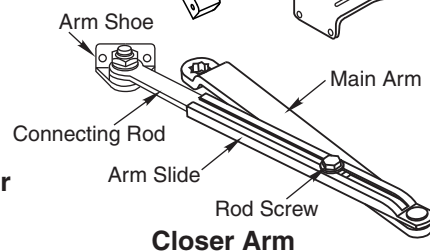
Backcheck Valve



Cover

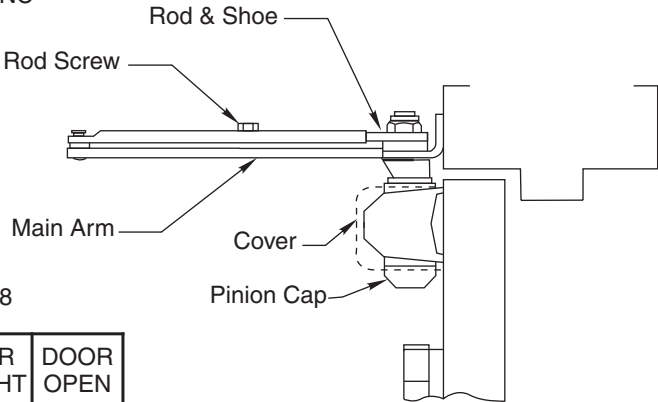
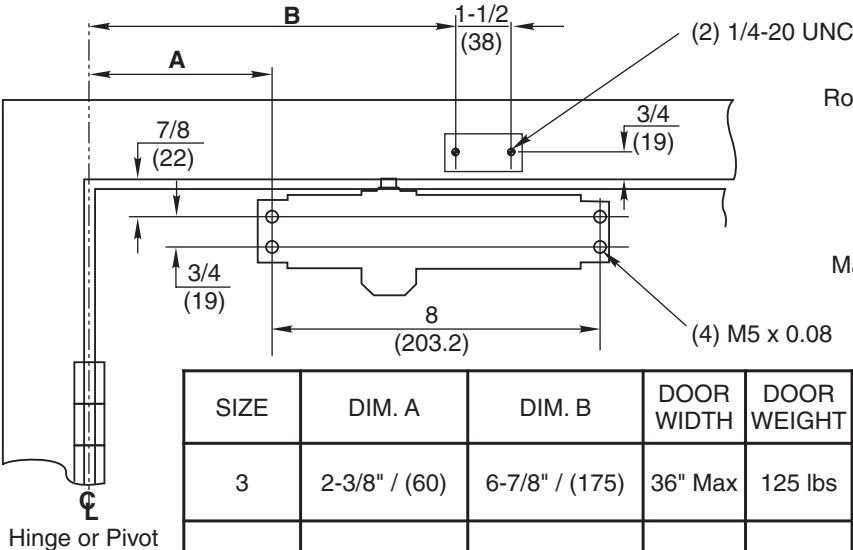
Soffit Plate Spacer

Soffit Plate



Closer Arm

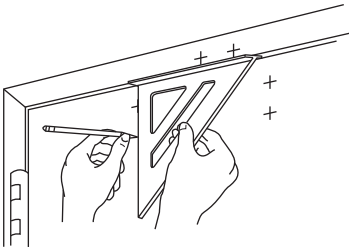
Regular Arm Mount
1700H



- Do not scale drawing.
- Right hand door shown.
- Dimensions are in inches (mm).

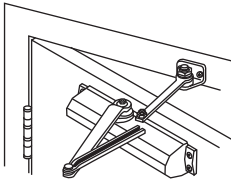
SIZE	DIM. A	DIM. B	DOOR WIDTH	DOOR WEIGHT	DOOR OPEN
3	2-3/8" / (60)	6-7/8" / (175)	36" Max	125 lbs	180°
4	5-5/8" / (144)	10-1/16" / (256)	42" Max	150 lbs	180°

Auxiliary Stop Required
(By Others)

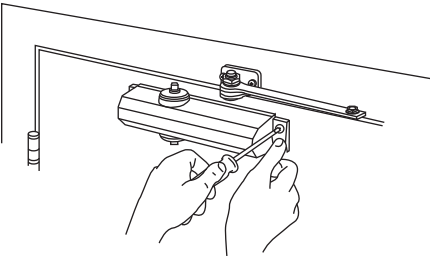


- **Select size mounting.** Use template to locate holes on door and frame:
4 on door for closer. **2 on frame** face for arm shoe.
- **Prepare for fasteners.** See Chart on Page 2.

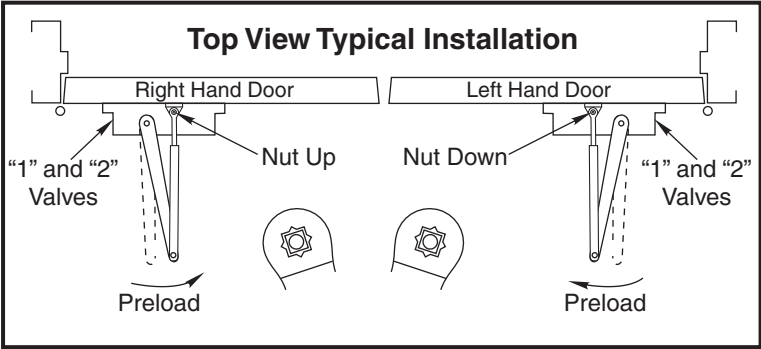
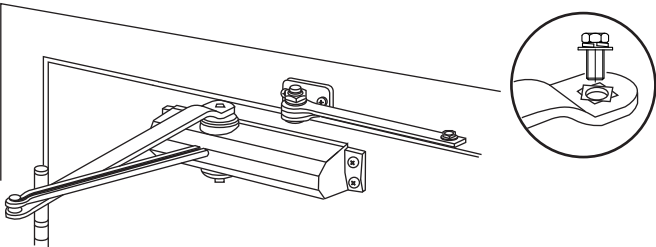
- **Install main arm on closer.** Place arm on pinion at 90° angle (perpendicular) to frame, see "Typical Installation" chart below. Fasten with arm screw.



- **Open door slightly.** Align and insert adjusting rod into adjusting tube. Close door. Adjust forearm at 90° angle (perpendicular) to door. Tighten rod screw.
- **Adjust closer.** See Page 3 ... Then install pinion cap or cover.

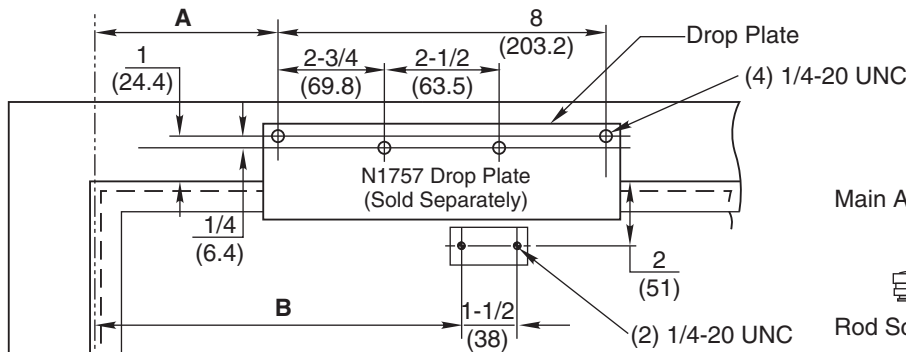


- **Remove rod and shoe from arm assembly.**
- **Mount rod and shoe to frame.**
Nut **Up** for **Right Hand** door
.Nut **Down** for **Left Hand** door
- **Mount closer to door.** Place end with two regulating valves toward hinge edge of door.



Fasteners Chart			
Closer Body	Fasteners	Door or Frame	Drill-Sizes
	5.5mm Dia. type "A" sheet metal screw	Wood	3/32" (2.5 mm.)
	M5 X 0.8 FHMS	Metal	Drill: #19 (4.2mm dia.) Tap: M5 X 0.8
Soffit Plate & Arm	Fasteners	Door or Frame	Drill-Sizes
	#14 type "A" sheet metal screw	Wood	7/32" (5.56 mm.)
	1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Or 5.10mm tap: 1/4" - 20

Top Jamb Mount 1700H



SIZE	SHOE POSITION	DIM. A	DIM. B	DOOR WIDTH	DOOR WEIGHT	DOOR OPEN
3		2-3/8" / (60)	6-7/8" / (175)	36" Max	125 lbs	160°
4		5-5/8" / (144)	10-1/16" / (256)	42" Max	150 lbs	140°

- ◆ **Max. Door Open:**
Size 3: 160° max. open at 3" to 3-7/8" reveals.
Size 3: 180° max. open at 0" to 3" reveals.
Size 4: 140° max. open 0" to 3-7/8" reveals.

**Auxiliary Stop Required
(By Others)**

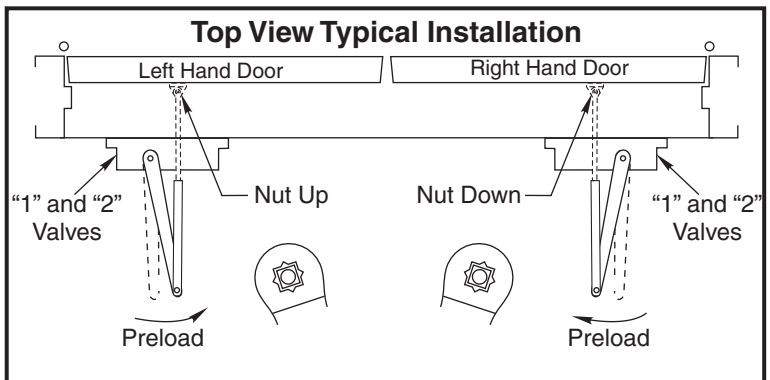
Reveal Range
0" to 3-7/8" (0) to (99)

- Do not scale drawing.
- Left hand door shown.
- Dimensions are in inches (mm).

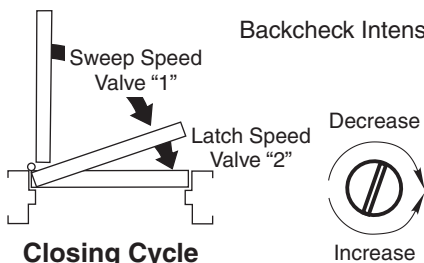
Drop Plates	
Closer	Drop Plate #
with Cover	N1757

- **Select size mounting.** Use template to locate holes on door and frame:
- **4 on frame face** for closer. **2 on door** for arm shoe.
- **Prepare for fasteners.** See Chart on Page 2.
- **Remove rod and shoe from arm assembly.**
- **Mount rod and shoe to door.**
Nut **Down** for **Right Hand** door.
Nut **Up** for **Left Hand** door.
- **Fasten No. N1757 drop plate to frame face.**
- **Mount closer to drop plate using (4) M5 x 0.08 screws provided.** Place end with two regulating valves toward hinge edge of door.

- **Install main arm on closer.** Place arm on pinion at 90° angle (perpendicular) to frame, see "Typical Installation" chart below. Fasten with arm screw.
- **Reassemble arm.** Adjust forearm at 90° angle (perpendicular) to door. Tighten rod screw.
- **Adjust closer.** See below for Hold Open, Closing Speed and Backcheck.

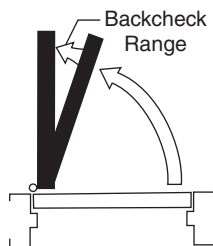


Valve Adjustments



Closing Cycle

Closing Speeds
"1" and "2"



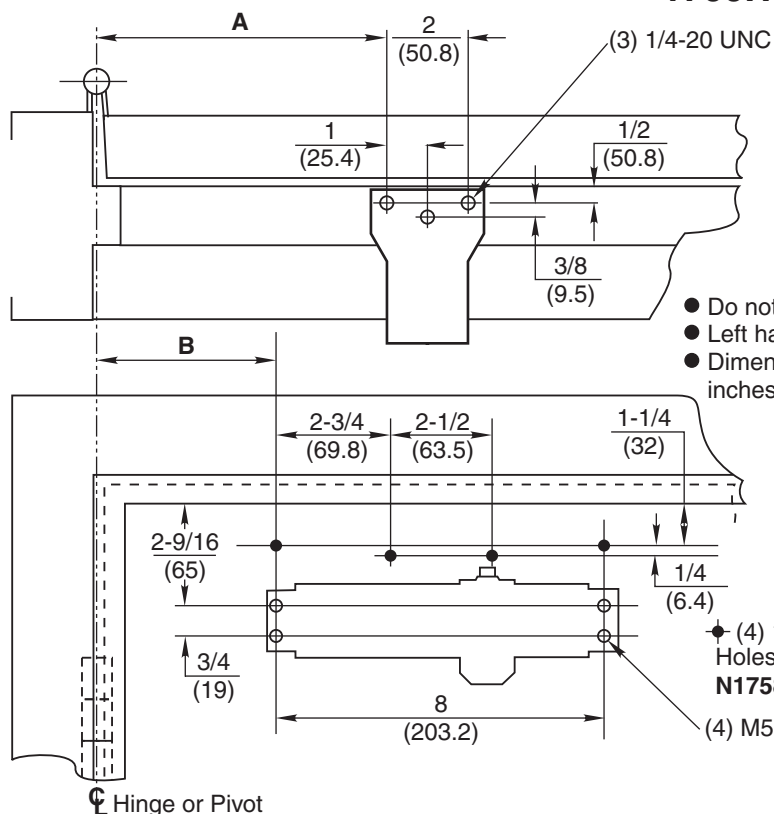
Opening Cycle

- **Closing speed** controlled by valve marked "1" (sweep range) and by valve marked "2" (latch range).
- **Backcheck Model Closers only** suffix "BC".
Backcheck controlled by valve "BC".
Never close "BC" valve completely.
- **Hold Open Adjustment.** Open door to angle of hold open desired. Tighten hold open adjustment nut with a 13/16" wrench or socket.

Parallel Arm Mount 1700H

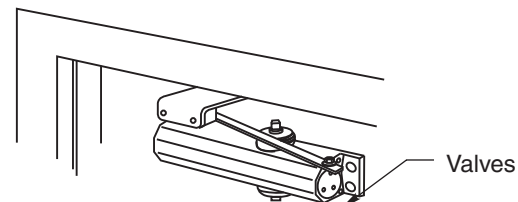
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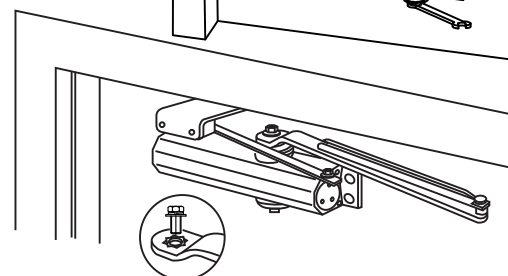
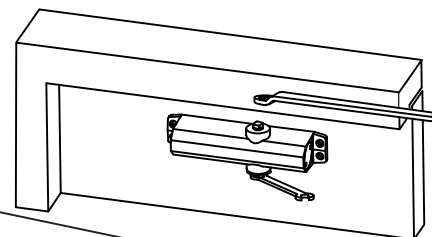
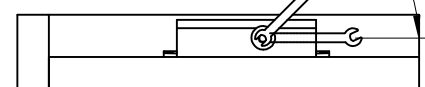
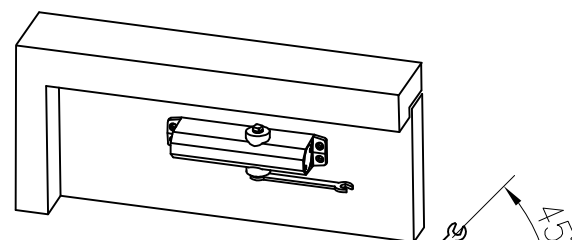


- Do not scale drawing.
- Left hand door shown.
- Dimensions are in inches (mm).

- **Remove rod and shoe from arm assembly.**
- **Fasten rod and shoe to soffit plate.**
 - Nut Up for Right Hand door.
 - Nut Down for Left Hand door.
- **Mount closer or drop plate and closer to door.** Place end with two regulating valves toward lock edge of door.

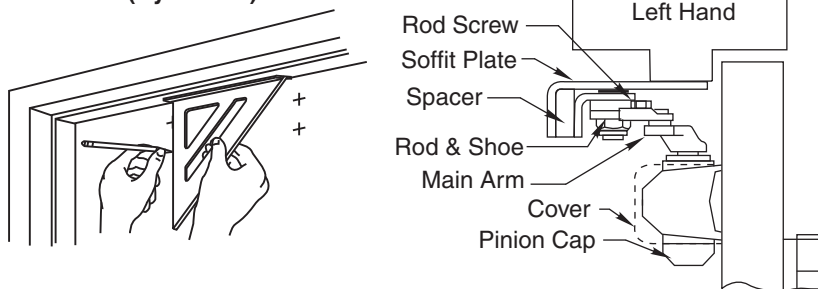


- **Preload Closer.** Place wrench on bottom pinion and rotate wrench 45° away from door face.



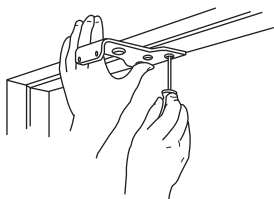
SIZE	DIM. A	DIM. B	SPACER (Installed)	DOOR WIDTH	DOOR WEIGHT	DOOR OPEN
3	5-3/8" / (136.5)	4-9/16" / (152.5)	NO	36" Max	125 lbs	180°
4	5-3/8" / (126.5)	4-9/16" / (152.5)	YES	42" Max	150 lbs	180°

Auxiliary Stop Required (By Others)



- **Select size mounting.** Use template to locate holes on door and frame:
4 on door for closer (or drop plate).
3 on frame for soffit plate.

- **Prepare for fasteners.** See Chart on Page 2.



- **Mount soffit plate to frame.**

- **Reassemble arm.** Adjust forearm length to set arm elbow from door as shown below. Tighten rod screw.
- **Adjust closer.** See Closer Adjustment (Pages 2 & 3).

