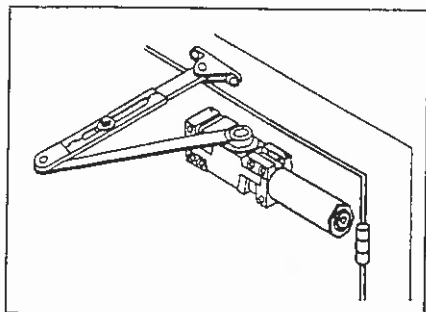


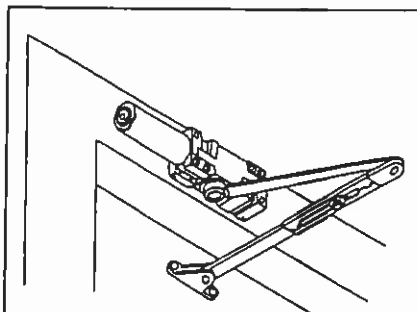
DOOR CLOSER SERIES 900 INSTALLATION INSTRUCTION

STANDARD MOUNT (PULL SIDE)



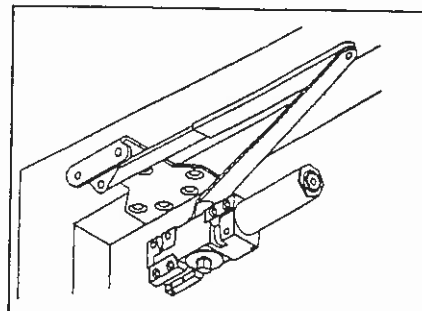
Permits 120° maximum opening
See page 2.

TOP JAMB MOUNT (PUSH SIDE)



Permits 120° maximum opening
See page 3.

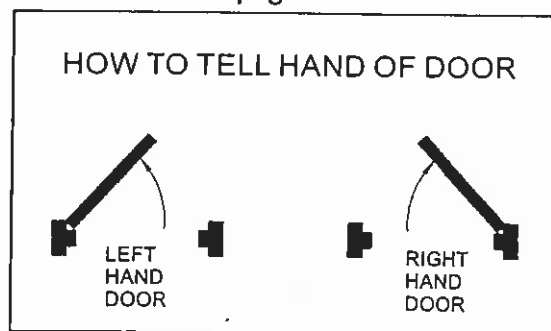
PARALLEL MOUNT (PUSH SIDE)



Permits 180° maximum opening
Maximum butt size 5"x5"
See page 4.

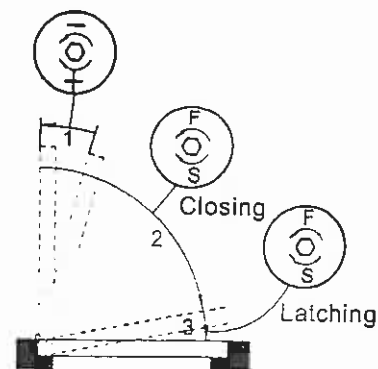
MAXIMUM DOOR WIDTH		FULL TURNS REQUIRED
EXTERIOR DOORS	INTERIOR DOORS	
—	5 lb-f*	5 TURNS C.C.W.
8.5 lb-f*	34"(864)	2 TURNS C.C.W.
30"(762)	38"(962)	0 TURNS
36"(914)	48"(1219)	5 TURNS C.W.
42"(1067)	54"(1372)	10 TURNS C.W.
48"(1219)	60"(1524)	15 TURNS C.W.

*Opening Force on 36" Door



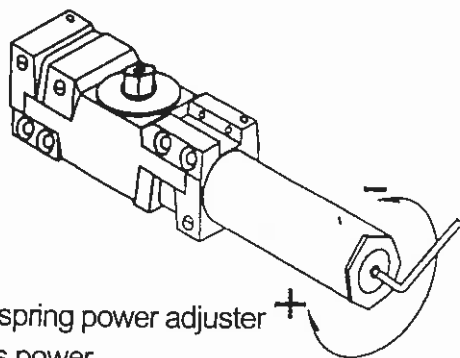
CONTROL RANGE

-Back Check



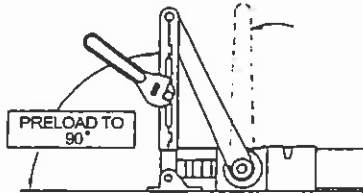
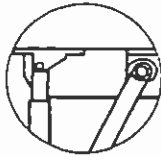
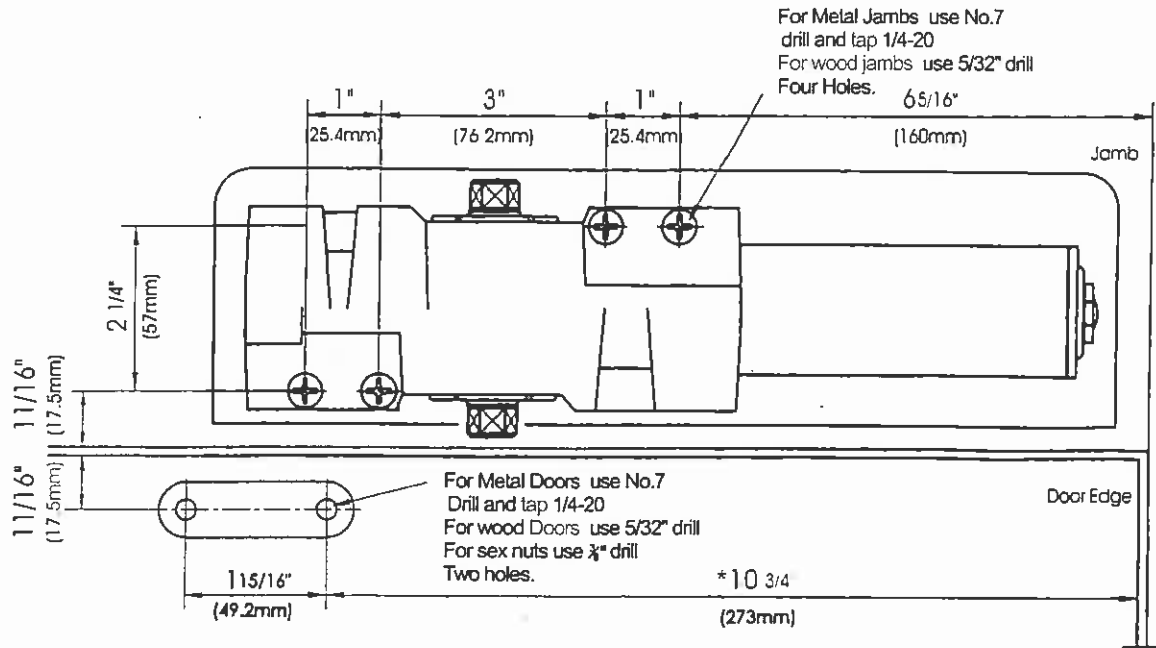
For more power, turn spring power adjuster clockwise and for less power turn counter clockwise. Do not exceed the maximum in either direction.

Spring Power Adjustment



TOP JAMB INSTALLATION

CLOSER MOUNTED TOP JAMB ON PUSH SIDE OF DOOR



1. Adjust spring power to match door width as indicated by chart on front page.
2. Mount closer on jamb as dimension shown. Tube end toward hinge. If pivots are used, locate closer and shoe from CENTERLINE OF PIVOT. (For offset pivots, pls increase the marked dimensions by 1/8")
3. Place main arm on bottom shaft 100° to closer body, insert arm screw into shaft and tighten.
4. Attach shoe to door as shown. (if more latching power is required, rotate shoe 180°)
5. Open door and insert rod in forearm - for reveal 2 5/8" through 4 13/16" use long rod. For reveals 4 7/8" to 8" use FOREARM EXTENDER (ROD) - available from dealer.
6. With forearm at right angle to door (90°), insert forearm set screw and tighten (IF HOLD OPEN ARM IS USED, THE NUT IS ON THE BOTTOM FOR RH DOOR AND TOP FOR LH DOOR)

REGULATION:

A 'Normal' closing time from 90° open position to door stop position is 5-7 secs, evenly divided between main swing speed and latch swing speed. Use hex key (furnished) to adjust speed. To slow main speed of door, turn regulating screw near shaft clockwise. To slow latch speed, turn regulating screw nearest latch clockwise.

BACK CHECK

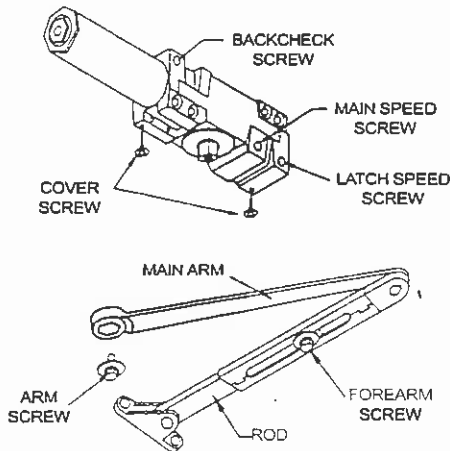
To increase back-check force, turn regulating screw nearest hinge clockwise. DO NOT USE ABRUPT BACKCHECK OR EXPECT DOOR CLOSER TO ACT AS A DOOR STOP.

COVER

Place insert in proper cutout, then push cover against door frame. Tighten both cover screw securely.

HOLD OPEN ADJUSTMENT (90° to 120°)

Loosen adjusting nut, open door to desired hold open position and tighten nut. Do not permit door to swing beyond hold open setting.

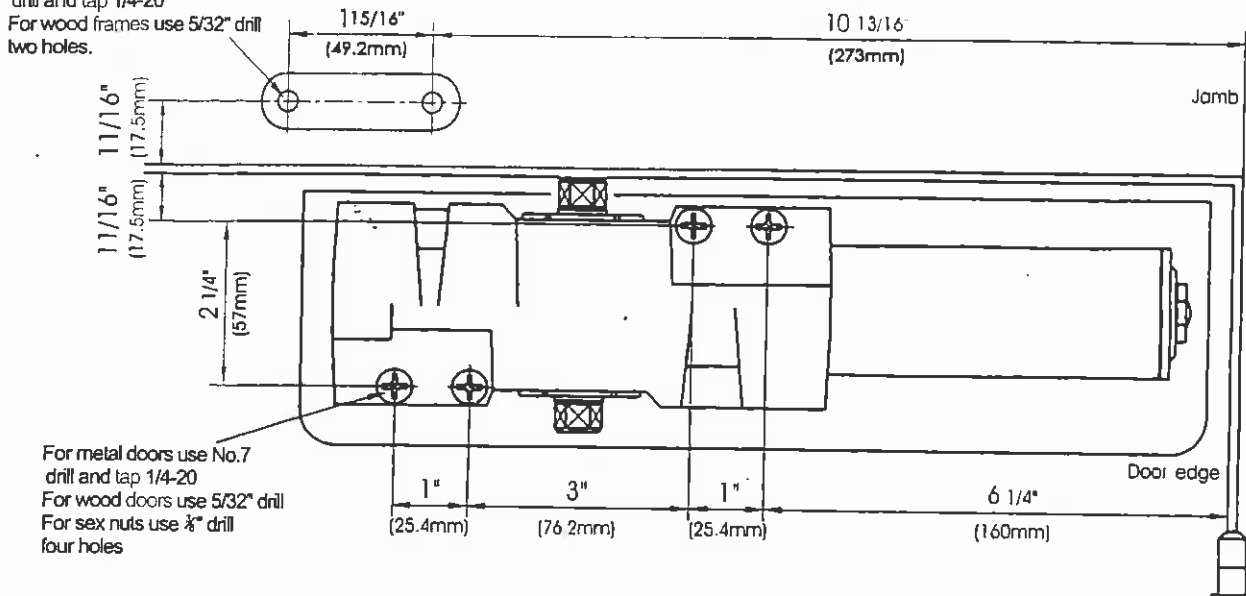


STANDARD INSTALLATION

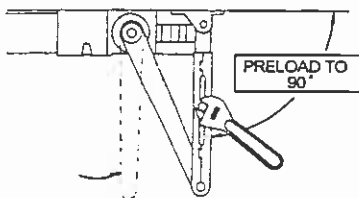
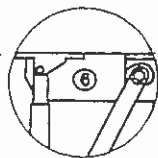
CLOSER MOUNTED ON DOOR ON PULL SIDE

For metal frames use No.7 drill and tap 1/4-20

For wood frames use 5/32" drill two holes.



For metal doors use No.7 drill and tap 1/4-20
 For wood doors use 5/32" drill
 For sex nuts use 3/8" drill four holes



1. Adjust spring power to match door width as indicated by chart on front page.
2. Mount closer on door as dimensions shown. Tube end toward hinge.
3. Place main arm on top of shaft 100° to closer body, insert arm screw into top of shaft and tighten.
4. Attach shoe to frame as shown. (if more latching power is required, rotate shoe 180°)
5. Open door and insert rod in forearm close door.
6. With forearm at right angle to door (90°), insert forearm set screw and tighten. (IF HOLD OPEN ARM IS USED, THE NUT IS ON THE TOP FOR RH DOOR AND BOTTOM FOR LH DOOR)

REGULATION:

A 'Normal' closing time from 90° open position to door stop position is 5-7 secs, evenly divided between main swing speed and latch swing speed. Use Hex key (furnished) to adjust speed. To slow main speed of door, turn regulating screw near shaft clockwise. To slow latch speed, turn regulating screw nearest latch clockwise.

BACK CHECK

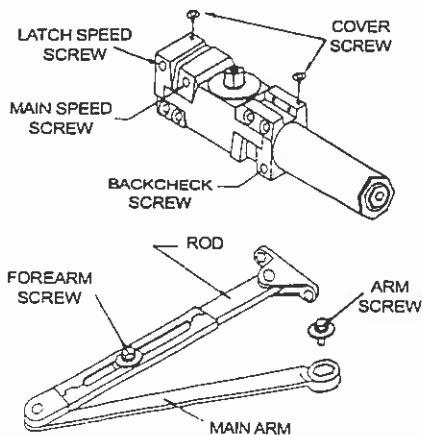
To increase back-check force, turn regulating screw nearest hinge clockwise. DO NOT USE ABRUPT BACKCHECK OR EXPECT DOOR CLOSER TO ACT AS A DOOR STOP.

COVER

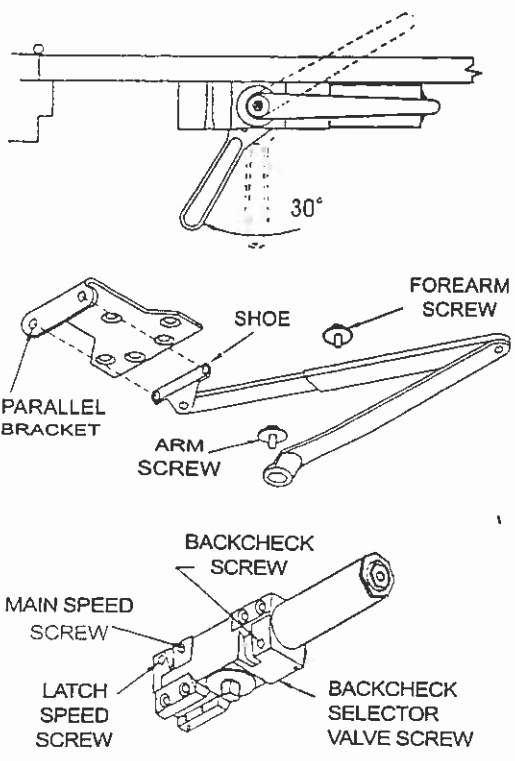
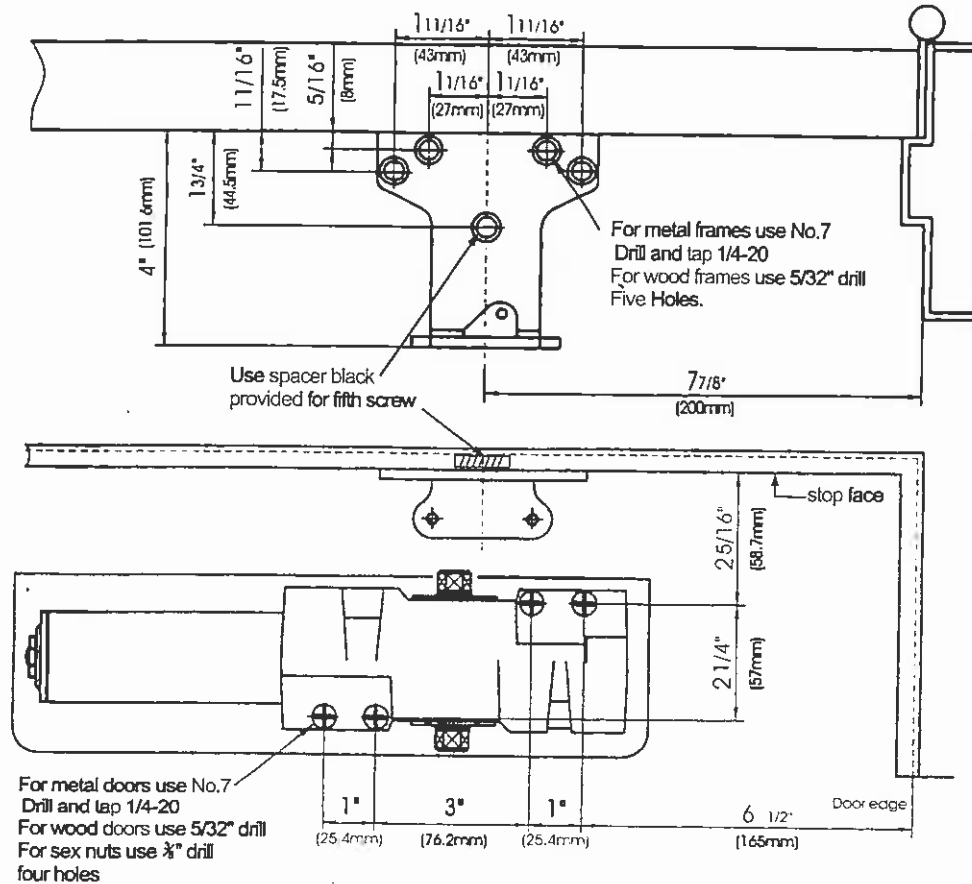
Place insert in proper cutout, then push cover against door frame. Tighten both cover screw securely.

HOLD OPEN ADJUSTMENT (90° to 120°)

Loosen adjusting nut, open door to desired hold open position and tighten nut. Do not permit door to swing beyond hold open setting.



PARALLEL ARM INSTALLATION CLOSER MOUNTED ON DOOR ON PUSH SIDE



1. Before installation, (parallel arm), turn Back Check selector valve (found on the opposite side of closer) ALL THE WAY IN (CLOCKWISE).
2. Adjust spring power to match door width as indicated by chart on page 1.
3. Mount closer on door as dimensions shown. Tube end toward latch. If pivots are used, locate closer and parallel bracket from CENTERLINE OF PIVOT.
4. Place open end wrench on bottom shaft and turn toward hinge jamb about 30, and then place main arm on top shaft, insert arm screw into top of shaft and tighten.
5. Attach parallel arm bracket on frame as dimensions shown.
6. Attach rod and shoe to parallel arm bracket as shown.
7. Insert rod in forearm, and then insert main arm to closer parallel to door. Then insert forearm set screw and tighten.
(IF HOLD OPEN ARM IS USED, THE NUT IS ON THE TOP FOR RH DOOR AND BOTTOM FOR LH DOOR)

REGULATION:
A 'Normal' closing time from 90° open position to door stop position is 5-7 secs, evenly divided between main swing speed and latch swing speed. Use hex key (furnished) to adjust speed. To slow main speed of door, turn regulating screw near shaft clockwise. To slow latch speed, turn regulating screw nearest latch clockwise.

BACK CHECK
To increase back-check force, turn regulating screw nearest latch clockwise. DO NOT USE ABRUPT BACKCHECK OR EXPECT DOOR CLOSER TO ACT AS A DOOR STOP.

COVER
Place insert in proper cutout, then push cover against door. Tighten both cover screw securely.

HOLD OPEN ADJUSTMENT
Loosen adjusting nut, open door to desired hold open position and tighten nut. Do not permit door to swing beyond hold open setting.