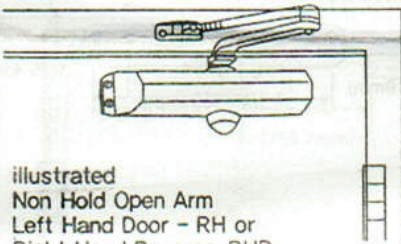


Installation Instructions

Regular Arm Installation

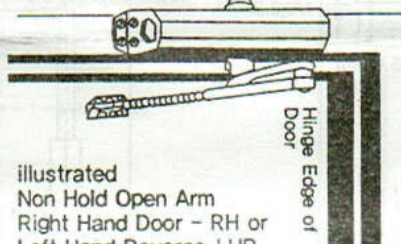
Closer installs on PULL/HINGE side of door.



illustrated
Non Hold Open Arm
Left Hand Door - RH or
Right Hand Reverse-RHR
See Page 2

Top Jamb Installation

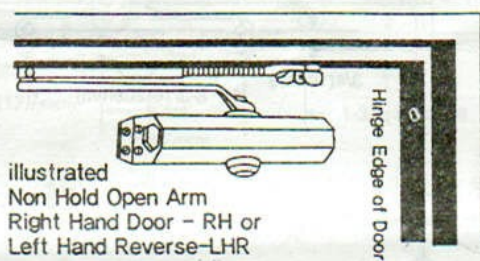
Closer installs on frame on PUSH/STOP side of door.



illustrated
Non Hold Open Arm
Right Hand Door - RH or
Left Hand Reverse-LHR
See Page 3

Parallel Arm Installation

Closer installs on PUSH/STOP side of door.



illustrated
Non Hold Open Arm
Right Hand Door - RH or
Left Hand Reverse-LHR
See Page 4

CLOSER ADJUSTMENT

CLOSING CYCLE

NOTE : Closing arcs ("CLOSE" and "LATCH") are controlled by two(2) separate speed adjusting valves adjust the CLOSING speed first, then adjust the LATCHING speed.

- "CLOSING" speed adjustment is accomplished by full rotations of the speed adjusting valve.
 - Turn the speed adjusting valve **CLOCKWISE** for a **SLOWER** CLOSE arc closing speed.
 - Turn the speed adjusting valve **COUNTER-CLOCKWISE** for a **FASTER** CLOSE arc closing speed.
- "LATCH" speed adjustment is accomplished by full rotations of the speed adjusting valve.
 - Turn the speed adjusting screw **CLOCKWISE** for a **SLOWER** Latch arc closing speed.
 - Turn the speed adjusting screw **COUNTER-CLOCKWISE** for a **FASTER** Latch arc closing speed.

CAUTION!! Do not turn speed adjusting valve more than two(2) full turns counter-clockwise from its factory set position, as two speed adjusting valves could become dislodged from the door closer body, resulting in the loss of internal fluid and failure of the device.

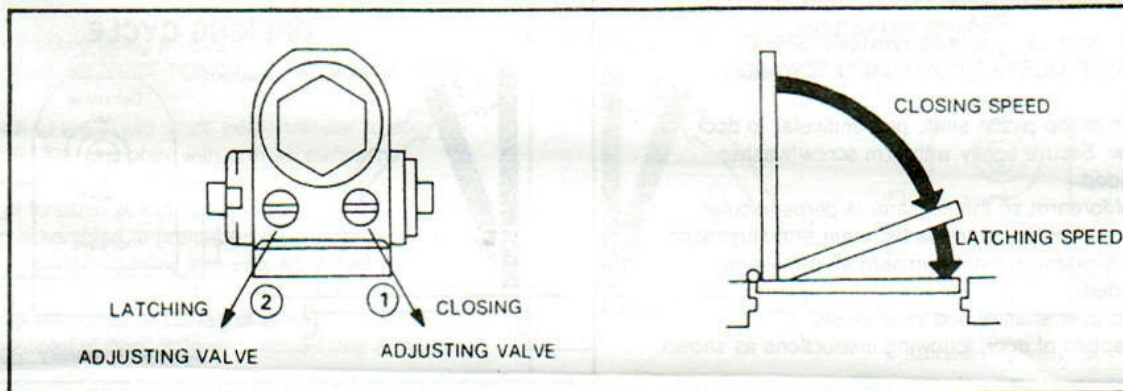
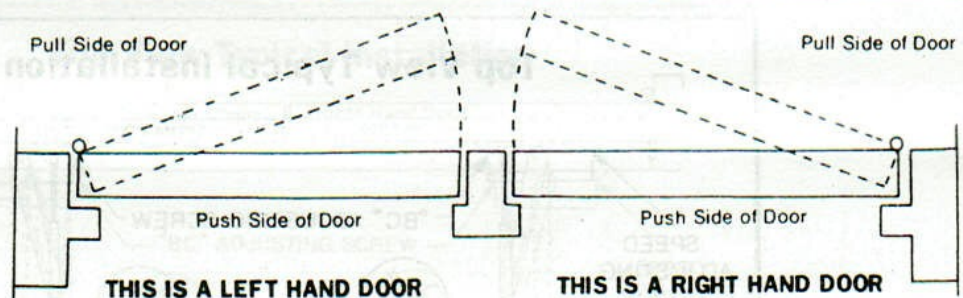
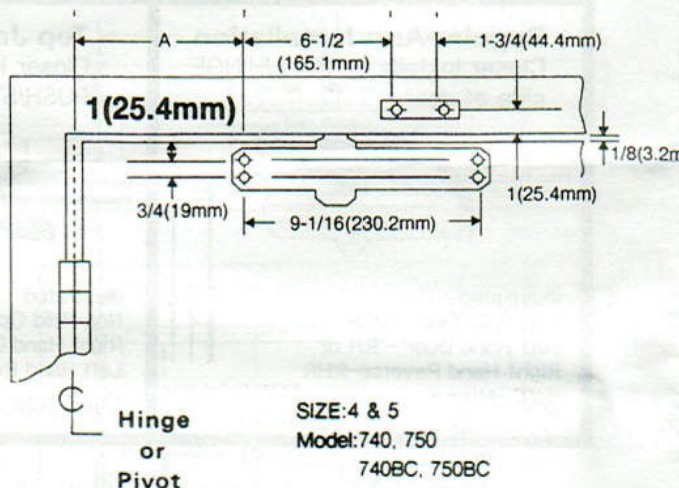
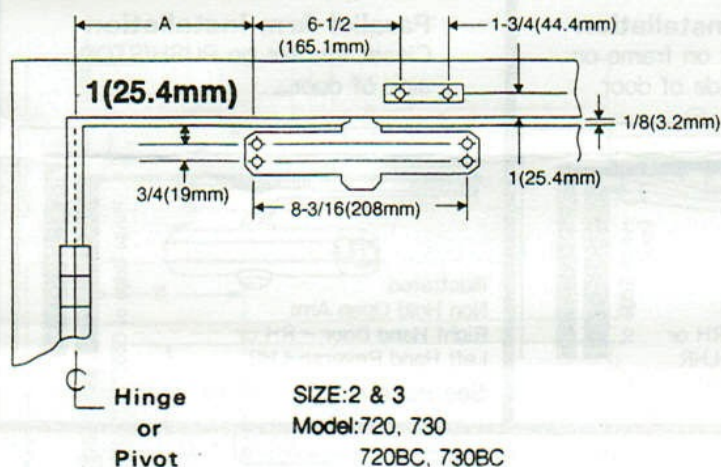


CHART TO DETERMINE HAND OF DOOR



Installation Instructions for REGULAR ARM(PULL SIDE) Mounting

THIS TEMPLATE COVERS REGULAR ARM INSTALLATIONS TO 180° OPENINGS.



- Right hand door shown
- Left hand door opposite
- Dimensions are in inches
- Drawing not to scale

OPENING	DIM. A SIZE: 2 & 3	DIM. A SIZE: 4 & 5
To 120°	6 1/2 (165.1mm)	6 1/2 (165.1mm)
120°-180°	4 (101.6mm)	4 (101.6mm)

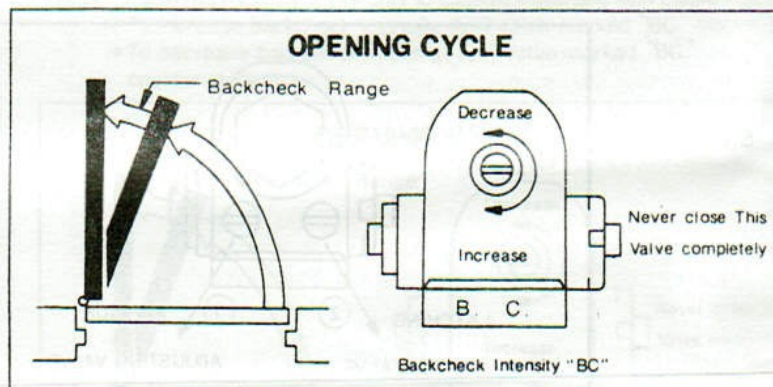
INSTALLATION INSTRUCTIONS

1. Select door opening angle and use dimensions shown above, mark four(4) holes on door for door closer and two(2) holes on frame for arm shoe.
2. Drill pilot holes in door and frame for #14 all-purpose screws or drill and tap for 1/4-20 machine screws.
3. Install forearm/arm shoe assembly to frame using screws provided.
4. Mount closer on door using screws provided. SPEED ADJUSTING VALVE MUST BE POSITIONED TOWARD HINGE EDGE.
5. Install main arm to top pinion shaft, perpendicular to door as shown below. Secure tightly with arm screw/washer assembly provided.
6. Adjust length of forearm so that forearm is perpendicular to frame when assembled to preloaded main arm (illustration below). Secure forearm to main arm with screw/washer assembly provided.
7. Snap pinion cap over shaft at bottom of closer.
8. Adjust closing speed of door, following instructions as shown page 1.

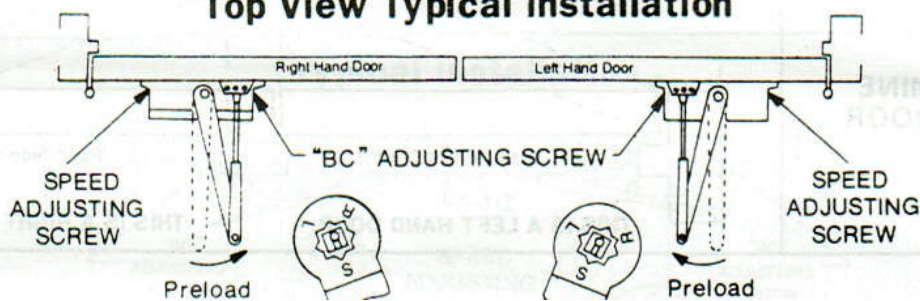
OPENING CYCLE

NOTE: These instructions apply only to closers equipped with backcheck.

- To increase backcheck intensity, turn valve marked "BC" clockwise.
- To decrease backcheck intensity, turn valve marked "BC" counter-clockwise.

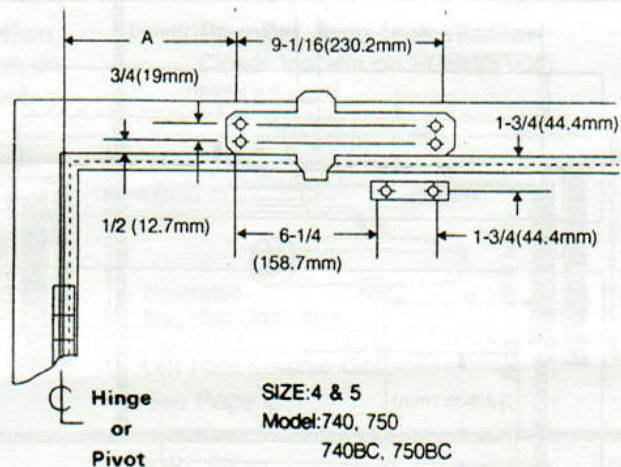
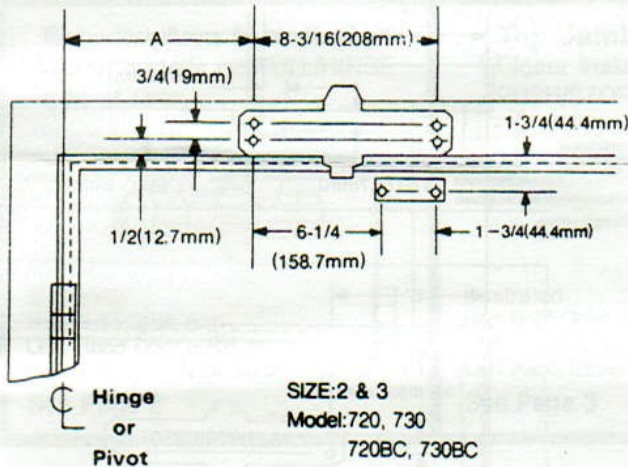


Top View Typical Installation



Installation Instructions for TOP JAMB (PUSH SIDE) Mounting

THIS TEMPLATE COVERS TOP JAMS INSTALLATIONS TO 180° OPENINGS.



- Right hand door shown
- Left hand door opposite
- Dimensions are in inches
- Drawing not to scale

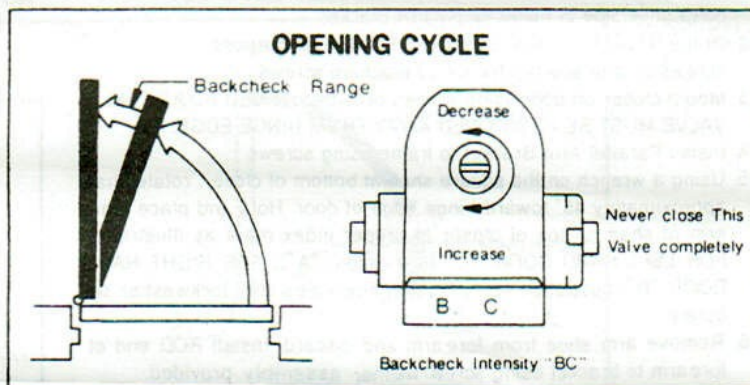
OPENING	DIM. A SIZE 2 & 3	DIM. A SIZE 4 & 5
To 120°	6 1/2 (165.1mm)	6 1/2 (165.1mm)
120°-180°	4 (101.6mm)	4 (101.6mm)

INSTALLATION INSTRUCTIONS

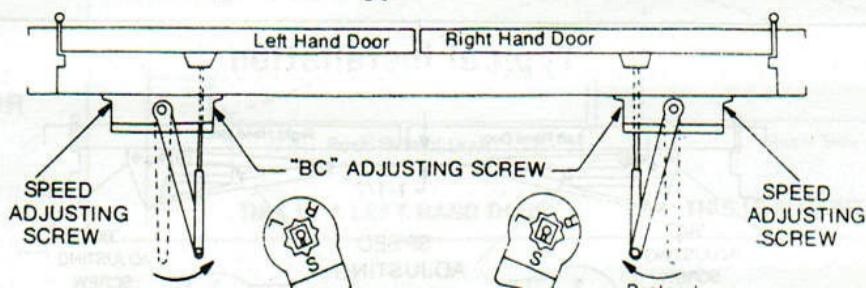
1. Select door opening angle and use dimensions shown above, mark four(4) holes on frame for door closer and two(2) holes on door of arm shoe.
2. Drill pilot holes in door and frame for #14 all-purpose screws or drill and tap for 1/4-20 machine screws.
3. Install forearm/arm shoe assembly to door using screws provided.
4. Mount closer on frame using screws provided. SPEED ADJUSTING VALVE MUST BE POSITIONED TOWARD HINGE EDGE.
5. Install main arm to top pinion shaft, perpendicular to door as shown below. Secure tightly with arm screw/washer assembly provided.
6. Adjust length of forearm so that forearm is perpendicular to frame when assembled to preloaded main arm (illustration below). Secure forearm to main arm with screw/washer assembly provided.
7. Snap pinion cap over shaft at bottom of closer.
8. Adjust closing speed of door, following instructions as shown Page 1.

OPENING CYCLE

- NOTE: These instructions apply only to closers equipped with backcheck.
- To increase backcheck intensity, turn valve marked "BC" clockwise.
 - To decrease backcheck intensity, turn valve marked "BC" counter-clockwise.



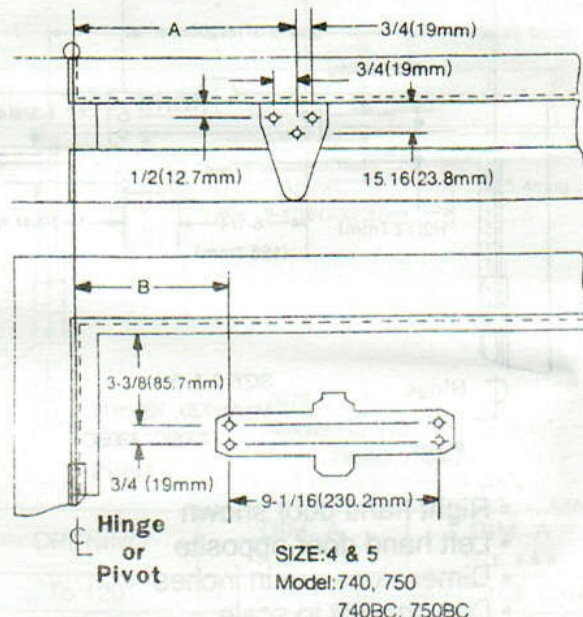
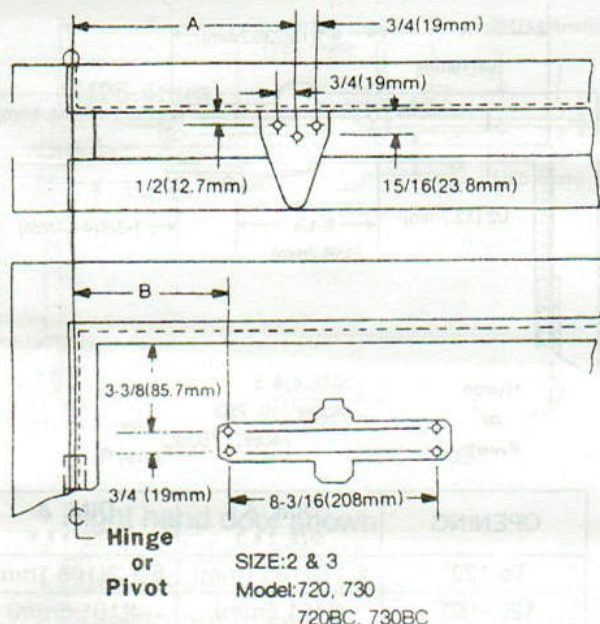
Top View Typical Installation



Installation Instructions for PARALLEL ARM(PUSH SIDE) Mounting

THIS TEMPLATE COVERS REGULAR PARALLEL ARM INSTALLATIONS TO 180° OPENINGS.

Parallel bracket accessory required



- Right hand door shown
- Left hand door opposite
- Dimensions are in inches
- Drawing not to scale

INSTALLATION INSTRUCTIONS

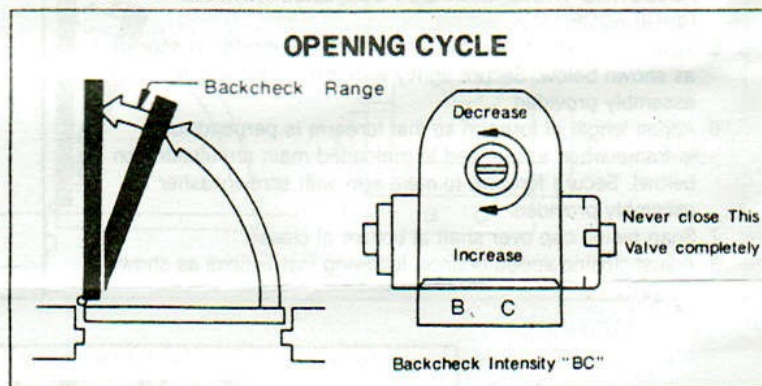
1. Select door opening angle and use dimensions shown above. mark four(4) holes on door for door closer and three(3) holes underside of frame for parallel bracket.
2. Drill pilot holes in door and frame for #14 all-purpose screws or drill and tap for 1/4-20 machine screws.
3. Mount closer on door using screws provided. SPEED ADJUSTING VALVE MUST BE POSITIONED AWAY FROM HINGE EDGE.
4. Install Parallel Arm Bracket to frame using screws
5. Using a wrench on the square shaft at bottom of closer, rotate shaft approximately 45° toward hinge edge of door. Hold and place main arm of shaft on top of closer at proper index mark as illustrated. FOR LEFT HAND DOOR "L"(illustration "A"). FOR RIGHT HAND DOOR "R"(illustration "B"). Tighten arm screw with lockwasher securely.
6. Remove arm shoe from forearm and discard. Install ROD end of forearm to bracket using screw/washer assembly provided.
7. Adjust length of adjustable forearm so that adjustable forearm is parallel to frame.
8. Adjust closing speed of door, following instructions as shown Page 1.

OPENING	DIM. A SIZE: 2 & 3	DIM. B SIZE: 2 & 3	DIM. A SIZE: 4 & 5	DIM. B SIZE: 4 & 5
To 120°	10 3/4 (273mm)	7 13/16 (198.4mm)	10 3/4 (273mm)	6 15/16 (176.2mm)
120° - 180°	8 3/4 (222.2mm)	5 5/8 (142.9mm)	8 3/4 (222.2mm)	4 3/4 (120.6mm)

OPEN CYCLE

NOTE: These instructions apply only to closers equipped with backcheck.

- To increase backcheck intensity, turn valve marked "BC" clockwise
- To decrease backcheck intensity, turn valve marked "BC" counter-clockwise.



Typical Installation

