



ASSA ABLOY

Support Unit Models

7290 MPI (Infinite Hold Open Range)

7290 MPS (Selective Hold-Open Range)

80-9372-1071-020 (01-14)

Multi-Point Electromechanical Overhead Concealed Closer Holder Releasing Device with Rigid Slide Arm

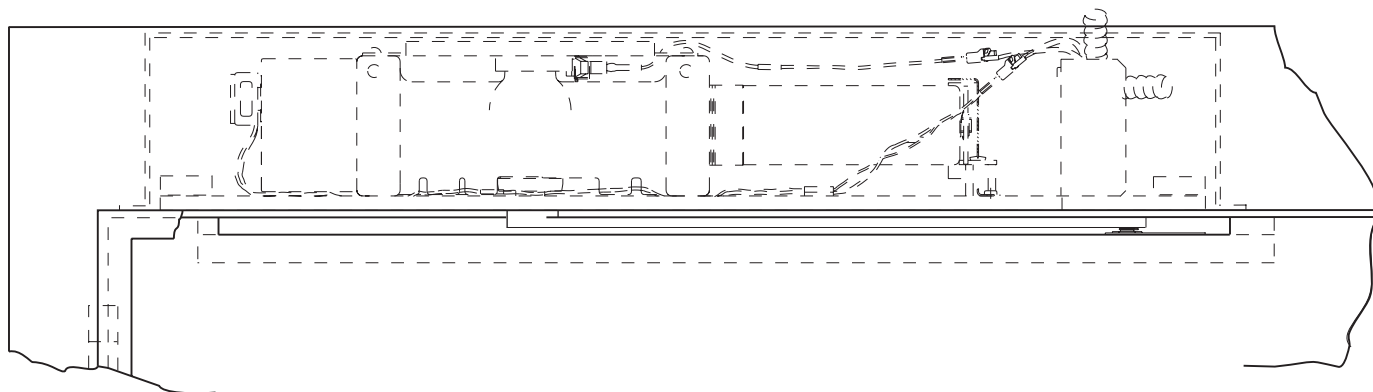
*For wood or metal doors 1- 3/4" to 2 -1/4" (45-57mm) thick
Hung in a hollow metal frame
Standard butt hinges*

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.

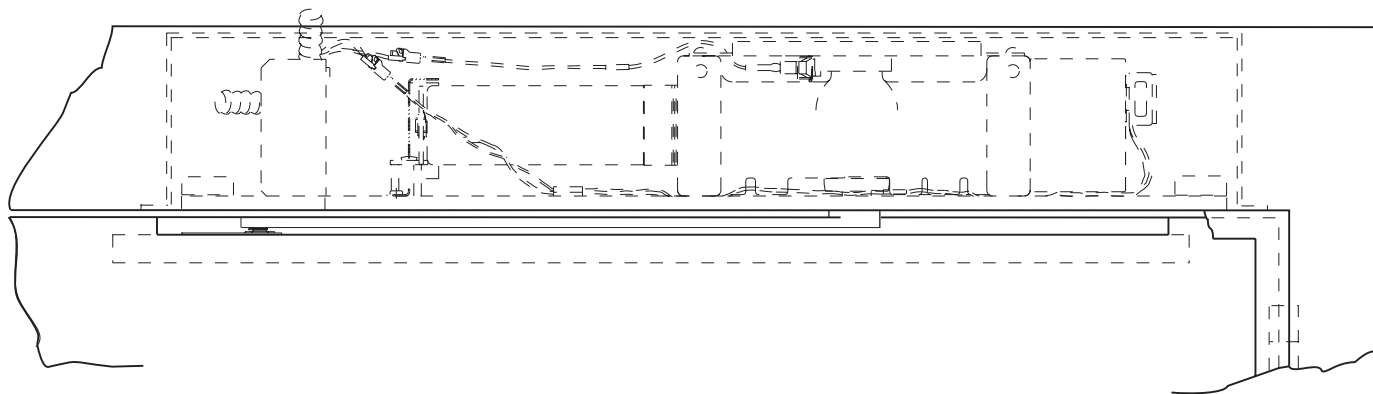
Typical Installation

- One track & closer position for all door opening angles
- Easy arm attachment
- Removable Frame Stop Required*-Not Shown



Hinge or
Pivot

Left Hand Door-LH
Right Hand Reverse-RHR



Right Hand Door-RH
Left Hand Reverse-LHR

Hinge or
Pivot

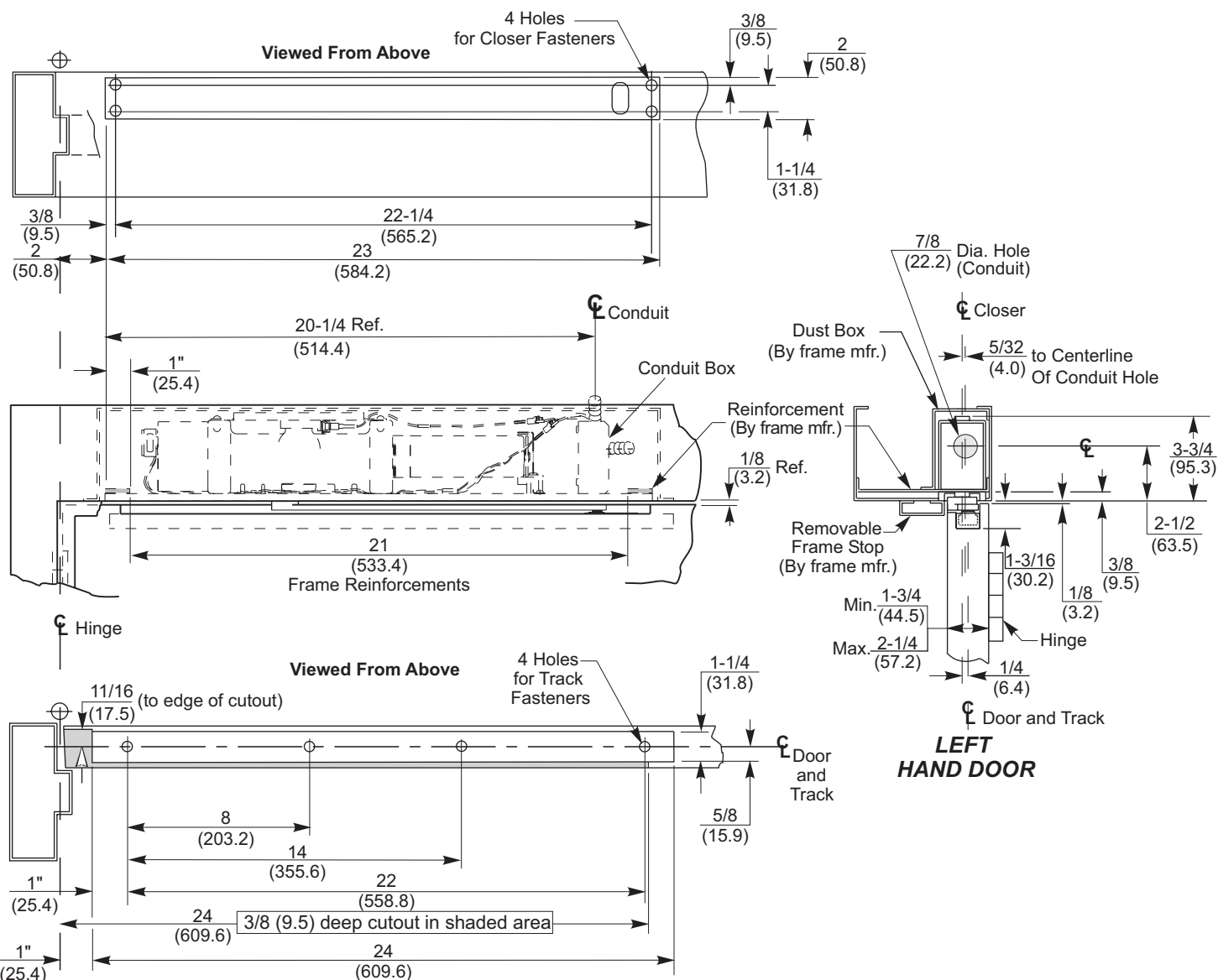
*Not required when frame rabbet exceeds 2-3/16" (56mm).

Model 7290MPI/7290MPS Template Standard Butt Hinges

Multi-Point Electromechanical
Overhead Concealed
With Rigid Slide Arm



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NOTES:

- Do not scale drawing.
- Left hand door shown.
- Hardware dimensions shown (not cutouts).
- Dimensions are in inches (mm).
- Minimum door width 27" (685.8).
- Track 24" (609.6) long.
- Maximum width hinge is 5" (127).

Fastener	Use	⊕ Preparation
1/4-20 machine screw	metal frame and metal door	#7 (.201" dia.) or 5.10mm. drill 1/4-20 tap
#14 wood screw	wood door	7/32" or 5.5mm. drill

Track Installation		
Door Angle		Auxiliary Door Stop Required
110°	180°	
With Cushion and stop block	Without Cushion and Stop block	Opening greater than 110°

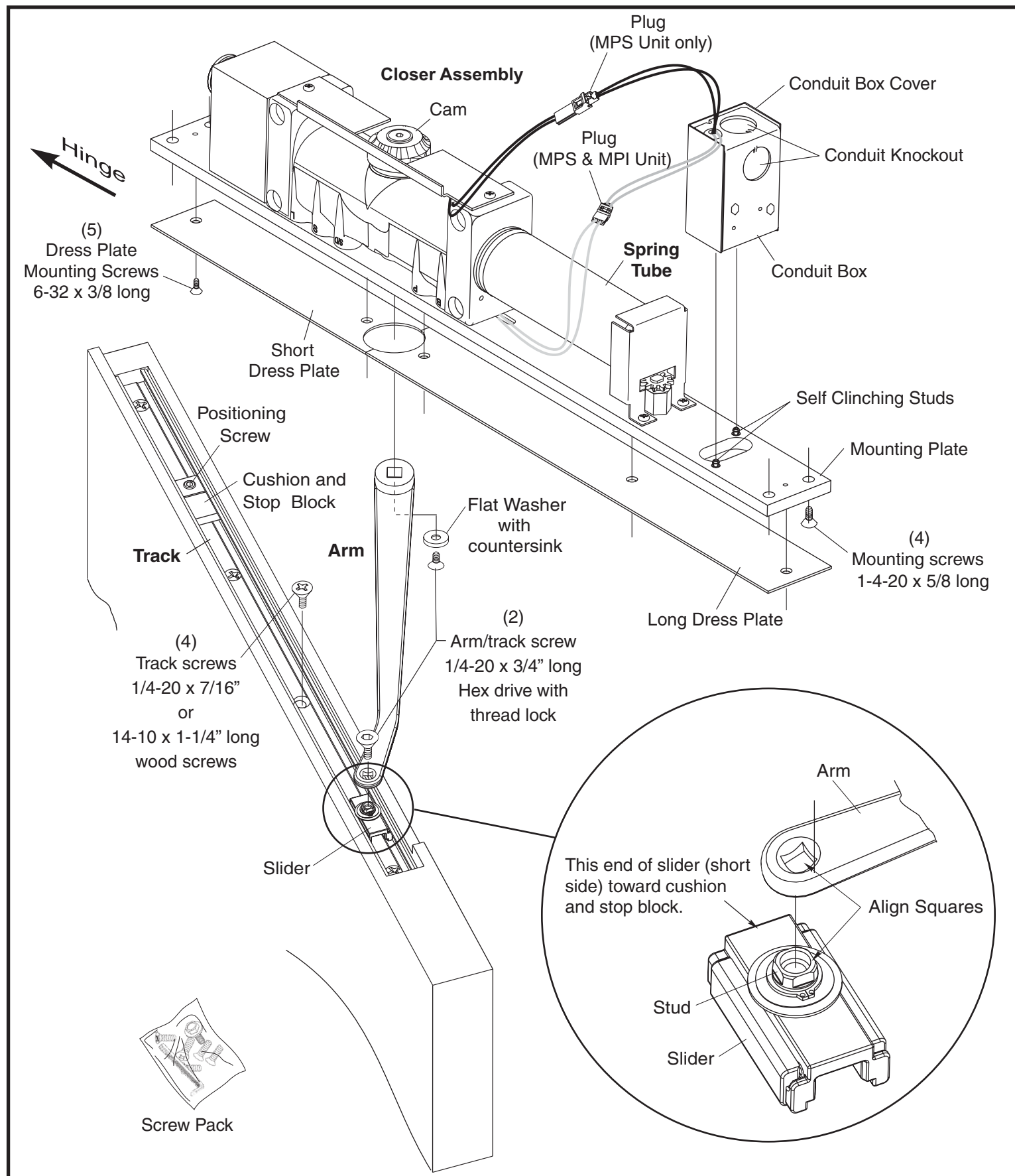
See installation sequence on pages 4 & 5.

Model 7290MPI/7290MPS Components

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Installation Sequence

Note: Read instructions entirely prior to installation.



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Door/Frame Prep:

- Determine hand of door from illustration on page 1. Closer are handed. Hand of closer must match hand of door.
- Using template dimensions on page 2, locate holes and cutouts in frame and door, unless a separate template has been supplied for your application.

Door:

Prepare door for track. Drill and tap (4) holes for 1/4-20 machine screws.

Frame:

Prepare the frame for mounting closer. Drill and tap (4) holes for 1/4-20 machine screws or #14 wood screws.

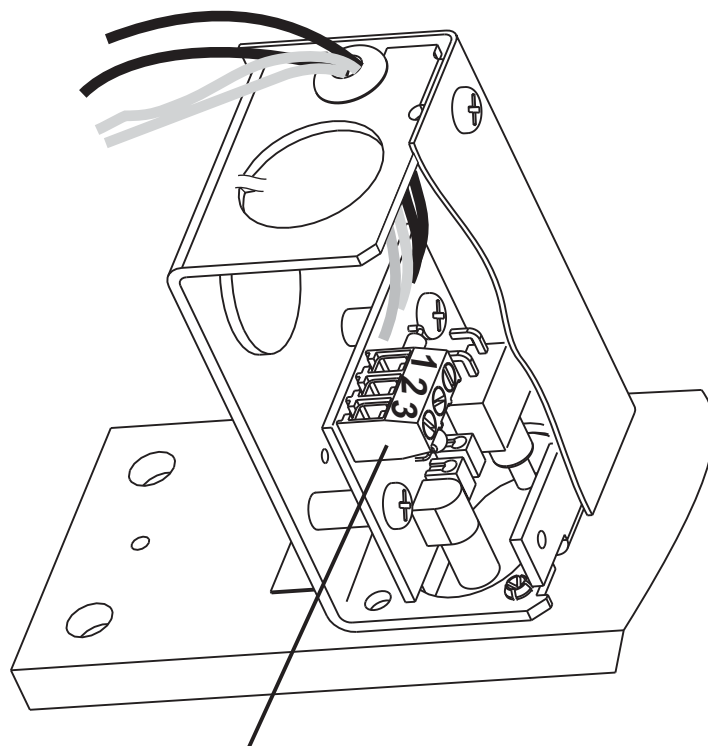
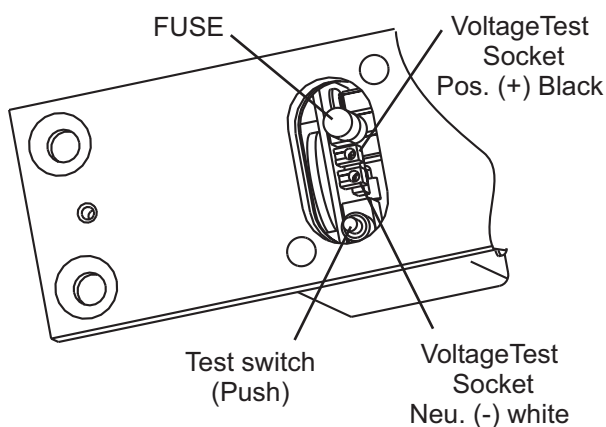
Note: Generally on new construction hardware cutouts are made by suppliers at their shop.

Wiring:

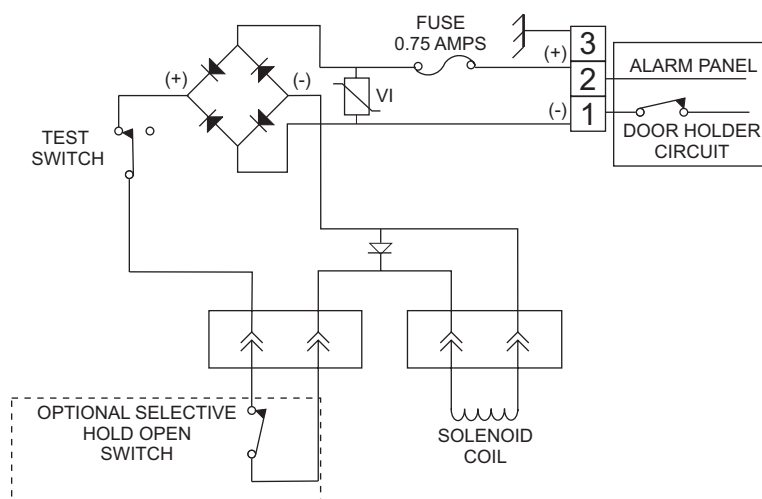
- Wiring of switch must be in compliance with N.E.C. Class 2 wiring specifications.
- Voltage to unit must be the same as shown on the unit: 24 Volts AC/DC or 120 Volts AC, 60hz. Voltage must be within a range of plus 10% and minus 15% of the unit's stated voltage.
- Pull hook-up box off mounting plate's self clinching studs, disconnect plugs and remove hook-up box cover.
- Anchor conduit at 1 or 2 hook-up box knockouts.
- Secure power input leads to terminal lock, positions #1 and #2 as shown.

SPECIFICATIONS

	120VAC	24VAC	24VDC
Voltage	120V ^{132V MAX. 102V MIN.}	24V ^{26.4V MAX. 20.4V MIN.}	24V ^{26.4V MAX. 20.4V MIN.}
Current	.035 AMPS	.070 AMPS	.070 AMPS



Terminal Block



Reconnect sockets

- Connect plug with white leads from solenoid for MPI and MPS units.
- Connect plug with black leads from cam switch if used.

Replace hook-up box cover and secure with (2) screws.

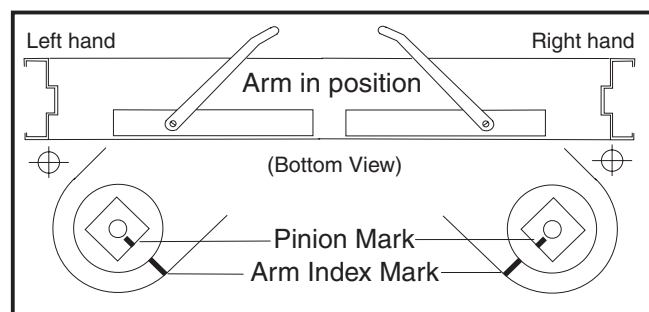
Reattached hook-up box to mounting plate by aligning (2) holes at bottom of hook-up box with (2) self clinching studs. See illustration on page 3.

- **Determine door opening angle**
See page 2 and below.
- **Series 7290MPI: Infinite Hold Open** units will hold door at virtually any degree of door opening from 5° to 175°.
- **Series 7290MPS: Selective Open Hold** units are shipped with hold open set at approximately 85°. Hold open can be set from 5° to 175°.
The hold open position can be increased or decreased by loosening the cam screw, rotating the cam to the new setting and tighten cam screw. See chart below for cam settings where hold open range will start.
- Align letters on hold open cam with "V" centerline of switch rocker. Choose row of letters on cam that are closest to the hinge side face of door.

Setting	G	H	J	K	L	M
Door Angle	15°	30°	45°	60°	90°	135°

NOTE: Verify setting of cam before mounting closer to the frame.

- **Mount closer to frame.**
Position spring tube away from hinge and mounting plate flush with frame rabbet. Secure to frame reinforcements with (4) 1/4 -20 x 5/8 screws. Use care to avoid damaging or pinching wires.
- **Install arm on closer pinion** (see illustration below)
Position arm counterbore facing down with index mark aligned with pinion index mark. Install onto pinion. Secure with washer and flat head arm screw with thread lock (see page 3).



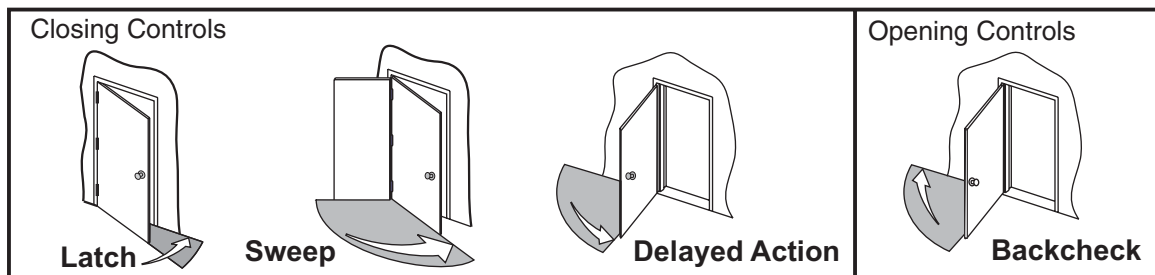
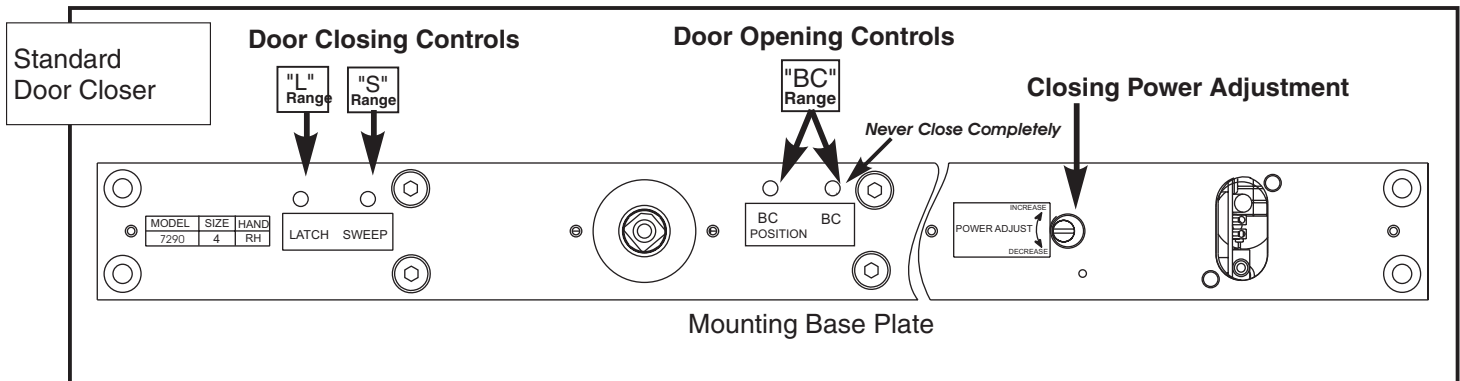
- **Install track in door.**
Place the assembled track into door cutout with open side up, cushion and stop block if used, toward the hinge. Move slider to the opposite end of track (see illustration, page 3). Secure track with (4) 1/4-20 machine screws.
- **Connect arm to track.** Open door to approximately 5" (127mm), rotate arm to slider and place end on stud. Use a screw driver to align the square on slider's stud with the arm square (see illustration on page 3). Push down on arm to seat stud and to prevent stud from rotating. Secure with arm/track screw, 1/4-20 x 5/8" long flat head hex drive with thread lock.

Model 7290MPI/7290MPS Closer Adjustment

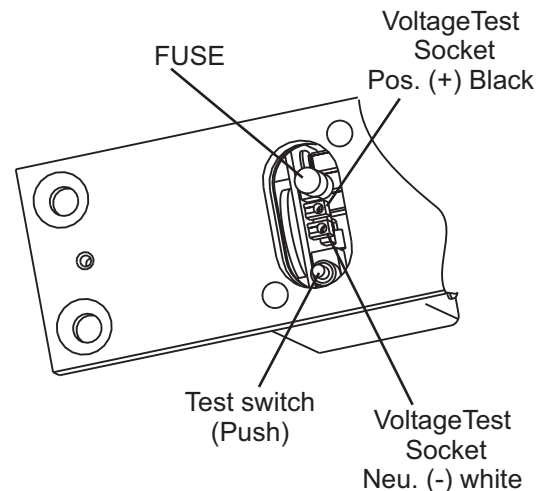
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CAUTION:

Do not back valves out of
closer or a leak will result.



- **Closer Controls** accessible through mounting plate for closer adjustment:
Use 1/8" (3mm.) hex-key for valve adjustments.
Use standard screwdriver for power adjustment.
- **Power Adjustment** permits increasing door closing force.
Controlled by slotted screw marked "P.A."
- **Closing Speed** controlled by valves marked "SWEEP" and "LATCH".
Attention: Adjust closing speed time to between 4 to 7 seconds from 90°.
Use of the door by handicapped, elderly, or small children may require greater closing time.
- **Backcheck** cushions or slows the opening of a door that is forced to travel faster than conditions require.
Backcheck controlled by valves marked "BC POSITION" (open for backcheck start at a greater door opening angle) and "BC" (for adjusting backcheck intensity). Never close "BC" valve completely.
- **Optional Enhanced Backcheck** provides adjustable backcheck intensity beginning at approximately 15° of the door opening cycle. Backcheck positioning valve is omitted when this feature is provided.
- **Hold Open Check.** Turn power to the unit "On". Open door to the hold open position. Manually pull door out of hold open and release, door should close.
- **Hook-Up Box Testing.** Open door to the hold open position. Depress "Test Switch" button on Hook-up Board, accessible through cutout in hook-up box and mounting plate (see illustration at right). Door should close.
- Install short and long dress plates with (5) 6-32 screws.



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