

LCN ELECTROMECHANICAL POWERED SYSTEMS

GENERAL ELECTRICAL DATA

1. Input power 115 volt, 3 wire, single phase, 60Hz, fused, 15 amp supply.
2. UL approved type flexible conduit is recommended for the 115 volt power line.
3. The 115 volt power supply must be a dedicated circuit from the main circuit breaker panel and must not be connected into a building lighting system operating fluorescent lights.
4. Location of conduits determined by mounting. See installation instructions for location.

2800, 9500 Series

ELECTRICAL DATA

1. 120 VAC input @ 2.5 amps (2800, and 9500 Series).
2. 24 V AC output @ 1.5 amps (protected by self-resetting thermal fuse).
3. 24 V DC available with SO kit included.

9100 Series

ELECTRICAL DATA

1. 120 VAC input @ 1 amp.
2. 24 VDC output @ 2.5 amps on premium control box.

LCN BENCHMARK UNIQUE FEATURES

Dual Independent Program Memories

Each unit is pre-programmed to factory default settings. The installer can adjust the unit to meet the job site requirements. These field settings are locked into the computer's memory. Any subsequent field adjustments replace the original field adjustments. The factory settings are always retained in memory and can be recalled to replace the field settings in just seconds, restoring the unit to its original programming.

On-Board Power Supply

Provides 24V DC output to power card readers, manual actuators and other peripherals.

Electronic Circuit Protection

Fused input circuit protection and fused output protection for 24 VDC peripherals

Visual Function Indicators

There are 2 LED s for installation and trouble shooting feedback. The motor LED will illuminate when the motor drive circuit energizes this is when the operator is activated it will remain on only during the opening of the door and the power LED this will illuminate when power is applied to the board and remains illuminated as long as there is power applied to the board.

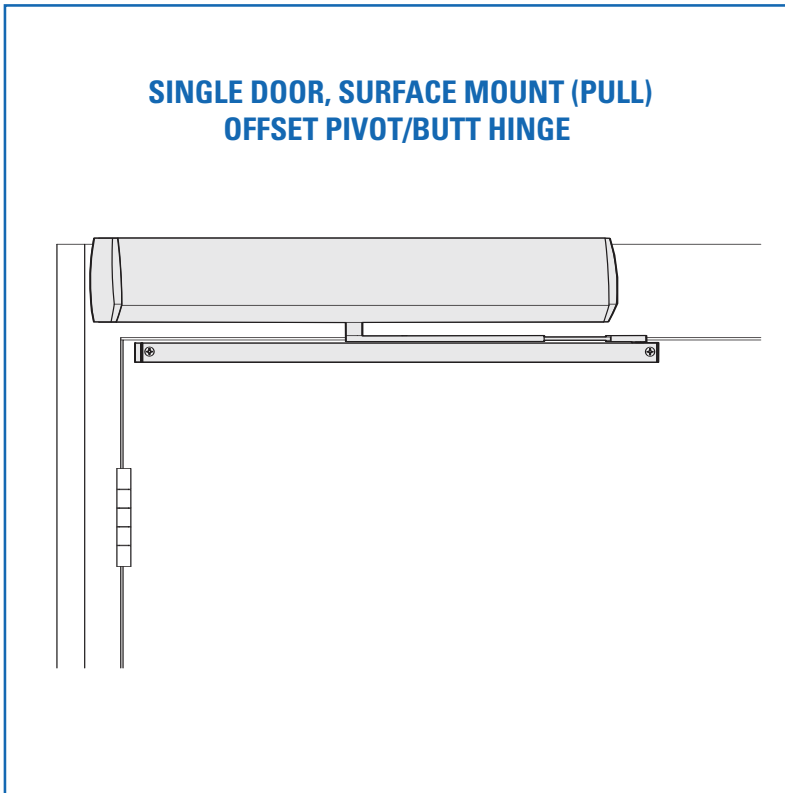
Programming Mode

Allows tailoring the following functions to meet specific site conditions:

- ▶ Power Boost
- ▶ Opening Speed
- ▶ Backcheck Speed
- ▶ Hold Open Time Delay
- ▶ Backcheck Position
- ▶ Closing Speed
- ▶ Latch Position
- ▶ Push 'N Go
- ▶ Delayed Activation

LCN 9130 SERIES

SINGLE DOOR, SURFACE MOUNT (PULL) OFFSET PIVOT/BUTT HINGE

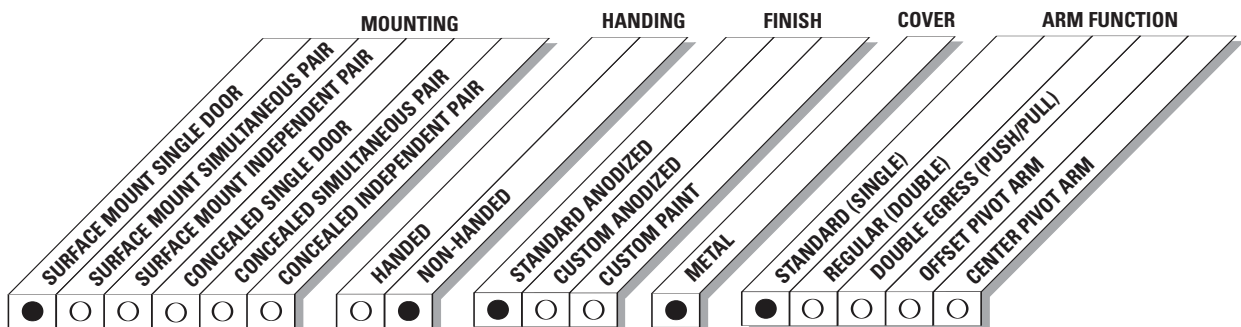


The 9130 BENCHMARK by LCN is an electrically powered low-energy operator. It provides easy access for people with disabilities, the elderly or the frail. Designed primarily for automatic opening applications that occasionally require manual opening. The BENCHMARK is a cost-effective solution for retrofitting an activated or manual door.

- ▶ **Push 'N Go permits non-switch activation**
- ▶ **Microprocessor control box ensures reliability and maintains customer settings**
- ▶ **Power Boost allows for increased closing force near latch**

- ▶ 9130 series operator is shipped with motor gearbox, control box, mounting plate, standard arm, metal cover, standard track, wood and machine screws. Actuators available separately, see page 121.
- ▶ Single interior door, surface mounted.
- ▶ ADA compliant.
- ▶ On/Off switch included as standard.
- ▶ Non-handed for either right or left swinging door.
- ▶ 27" cover is standard, 36" optional.
- ▶ All potentiometers clearly labeled with their functions.
- ▶ LED lights indicate power to control box and motor gearbox.

9130 Series is fully compliant with UL 325 and meets the provisions of ANSI A156.19. The 9130 Series is UL listed for fire-rated applications. The 9130 Series also meets the provisions of the Americans with Disabilities Act.

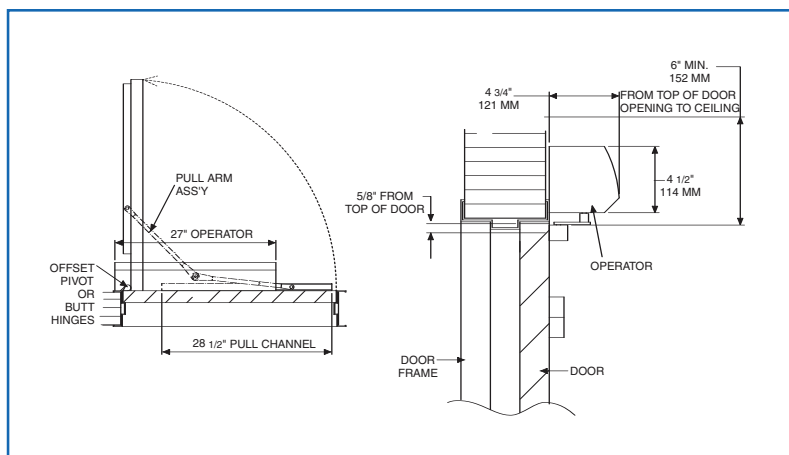


● AVAILABLE
○ NOT AVAILABLE

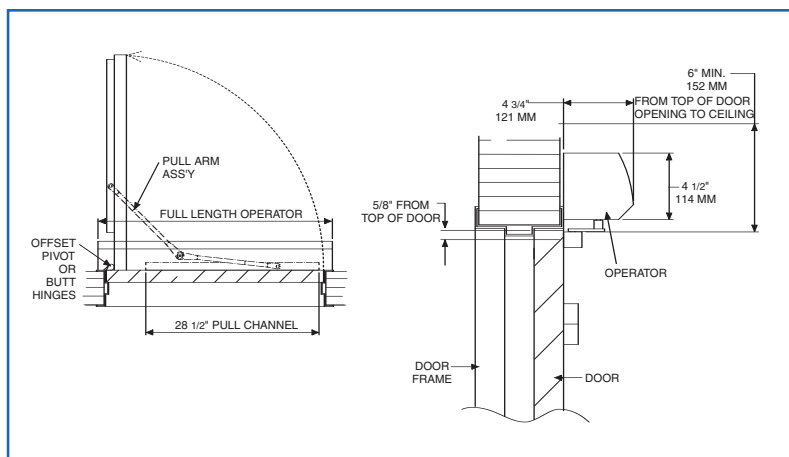
LCN 9130 SERIES

MOUNTING DETAILS

TOP JAMB SINGLE DOOR (OFFSET/BUTT HINGE, CENTER PIVOT, PULL, STANDARD COVER) MOUNTING



TOP JAMB SINGLE DOOR (OFFSET/BUTT HINGE, CENTER PIVOT, PULL, FULL COVER) MOUNTING



MAXIMUM OPENING

Template allows 90 degree power opening and 90 degree manual opening.

- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Reveal** should not exceed 1/8" (3 mm).
- ▶ **Head Frame** minimum 2" (51 mm).
- ▶ **Top Rail** minimum 2" (51 mm).
- ▶ **Opening and Closing Time** are variable by adjustments to the electronic control module located on the operator assembly. Maximum hold open time adjustable up to approximately 30 seconds.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

LCN 9130 SERIES

MOTOR GEARBOX

MOTOR GEARBOX ASSEMBLY (W/O SWITCH), 9130-3454

Driving mechanism for operator. For full length unit. Switch not included.

MOTOR GEARBOX ASSEMBLY, 9130-3454S

Driving mechanism for operator. For 27" unit. Switch included.

BRACKETS

MOUNTING BRACKET, 9130-3018

Standard mounting bracket.

SWITCH BRACKET – 29" CABLE, 9130-3351-1

Bracket used to locate switch at end of cover on full length unit.

SWITCH BRACKET – 41" CABLE, 9130-3351-2

Bracket used to locate switch at end of cover on full length unit.

SWITCH BRACKET – 51" CABLE, 9130-3351-3

Bracket used to locate switch at end of cover on full length unit.

CONTROL BOXES

CONTROL BOX, (120v), 9130-3462

Electronic controlling device with power supply output and power boost feature for Benchmark.

COVERS

METAL COVER, 9130-72MC

Standard, 27", non-handed, extruded aluminum cover.

FULL METAL COVER, 9130-72FC

36", non-handed, extruded aluminum cover.

COVER INSERT 9130-163

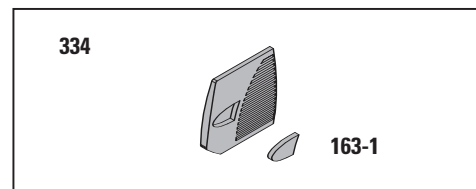
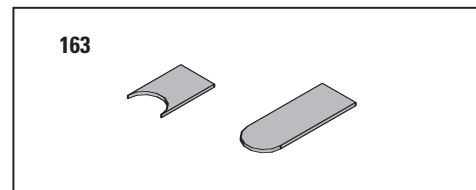
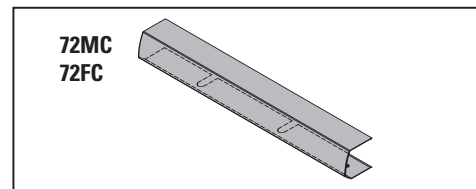
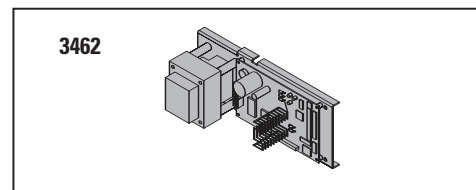
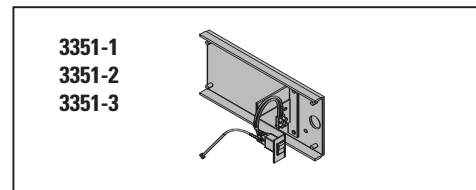
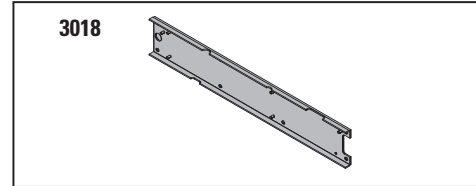
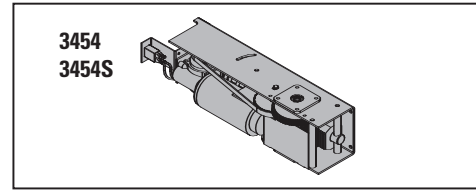
Used to cover operator shaft opening.

COVER END CAP INSERT, 9130-163-1

Used to cover switch hole opening.

COVER END CAP, 9130-334

Black plastic end caps.



LCN 9130 SERIES

TRACKS

STANDARD TRACK, 9130-3038

Standard, non-handed track.

TRACK END CAP, 9130-73

Black plastic end caps.

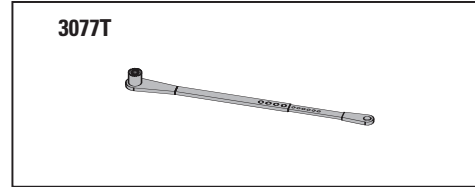
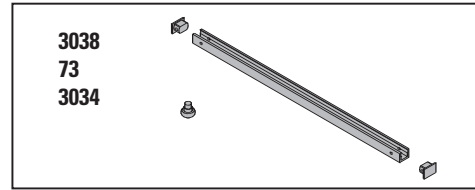
ROLLER, 9130-3034

Quiet low friction roller assembly.

ARMS

STANDARD ARM, 9130-3077T

Non-handed arm. Track roller not included.

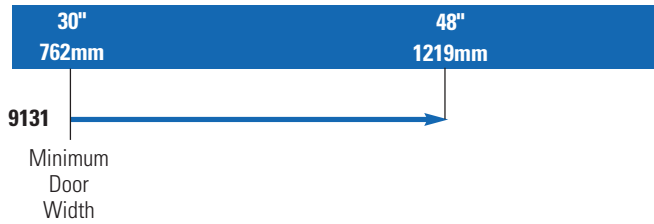


LCN 9130 SERIES

TABLE OF SIZES

→ Indicates recommended range of door width for operator.
Note: For All Benchmark Series
30" minimum door width for 27" pull operator
36" minimum door width for full length pull operator

DOOR WIDTH



HOW-TO-ORDER 9130 SERIES OPERATORS

1. SPECIFY FINISH.

- Standard Anodized Finish _____
Aluminum or Dark Bronze

Operator will be shipped with:

- STANDARD MOTOR GEARBOX (SF)
 - STANDARD CONTROL BOX (SC)
 - MOUNTING BRACKET
 - 27" METAL COVER (CL27)
 - STANDARD ARM (3077T)
 - STANDARD TRACK w/TRACK ROLLER
 - WOOD and MACHINE SCREW PACK
- Unless options listed below are selected.*

OPERATOR OPTIONS

COVER

- 36" Full Cover

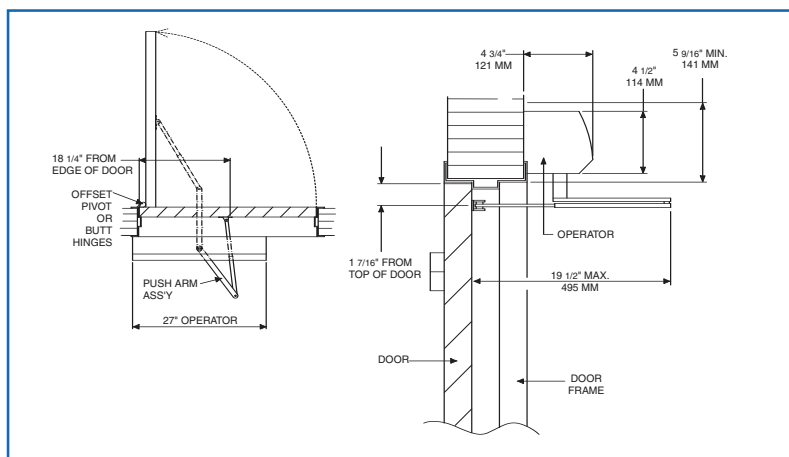
SPECIAL TEMPLATE

- ST-_____

LCN 9140 SERIES

MOUNTING DETAILS

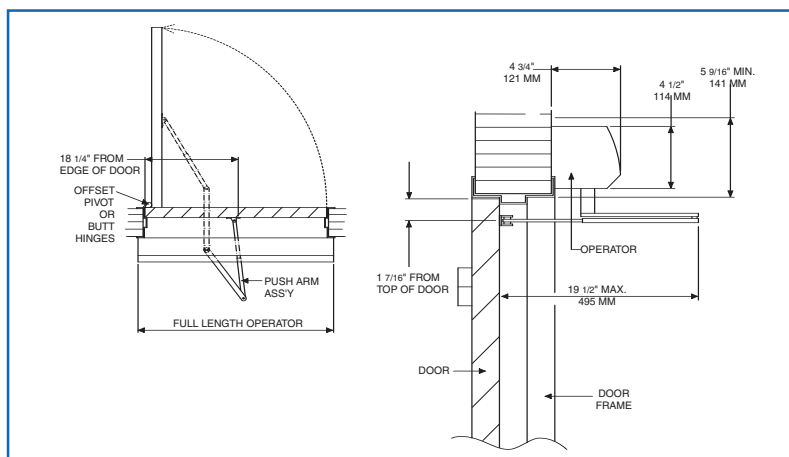
TOP JAMB SINGLE DOOR (OFFSET/BUTT HINGE, CENTER PIVOT, PULL, STANDARD COVER) MOUNTING



TOP JAMB SINGLE DOOR (OFFSET/BUTT HINGE, CENTER PIVOT, PULL, FULL COVER) MOUNTING

MAXIMUM OPENING

Template allows 90 degree power opening and 90 degree manual opening.



- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Reveal** for push installations should not exceed 6" (152 mm) for REGULAR ARM and 9 3/4" (248 mm) for LONG ARM.
- ▶ **Head Frame** minimum 2" (51 mm).
- ▶ **Top Rail** minimum 2" (51 mm). Flush ceiling installation requires 5 1/4" (133 mm) minimum.
- ▶ **Opening and Closing Time** are variable by adjustments to the electronic control module located on the operator assembly. Maximum hold open time adjustable up to approximately 30 seconds.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

LCN 9140 SERIES

MOTOR GEARBOX

MOTOR GEARBOX ASSEMBLY, 9140-3454S

Driving mechanism for operator. For 27" unit. Switch included.

MOTOR GEARBOX ASSEMBLY (W/O SWITCH), 9140-3454

Driving mechanism for operator. For full length unit. Switch not included.

BRACKETS

MOUNTING BRACKET, 9140-3018

Standard mounting bracket.

SWITCH BRACKET – 29" CABLE, 9140-3351-1

Bracket used to locate switch at end of cover on full length unit.

SWITCH BRACKET – 41" CABLE, 9140-3351-2

Bracket used to locate switch at end of cover on full length unit.

SWITCH BRACKET – 51" CABLE, 9140-3351-3

Bracket used to locate switch at end of cover on full length unit.

CONTROL BOXES

CONTROL BOX, (120v), 9140-3462

Electronic controlling device with power supply output and power boost feature for Benchmark.

COVERS

METAL COVER, 9140-72MC

Standard, 27", non-handed, extruded aluminum cover.

FULL METAL COVER, 9140-72FC

36" Full length, non-handed, extruded aluminum cover.

COVER INSERT 9140-163

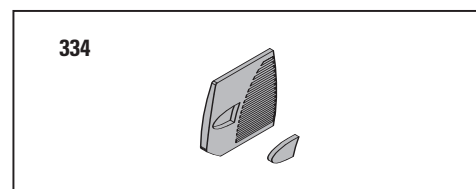
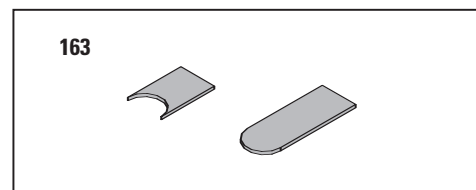
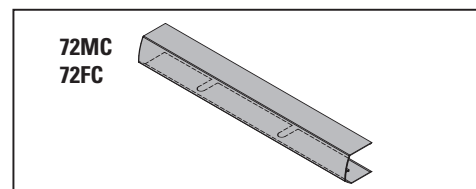
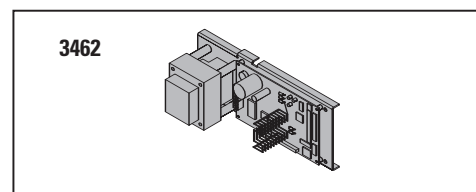
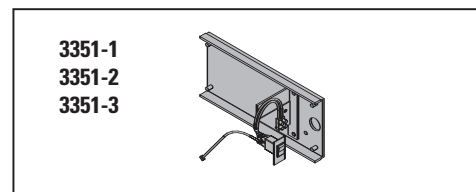
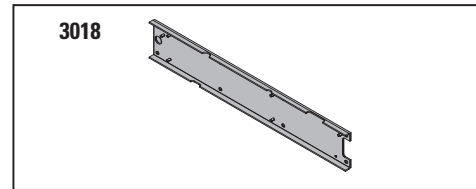
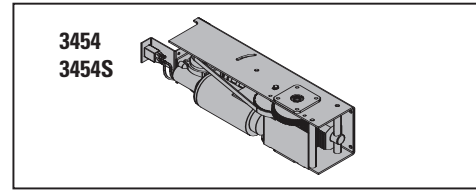
Used to cover operator shaft opening.

COVER END CAP INSERT, 9140-163-1

Used to cover switch hole opening.

COVER END CAP, 9140-334

Black plastic end caps.



LCN 9140 SERIES

ARMS

REGULAR ARM, 9140-3077

Non-handed arm.

LONG PUSH ARM, 9140-3077L

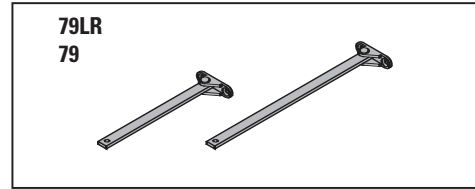
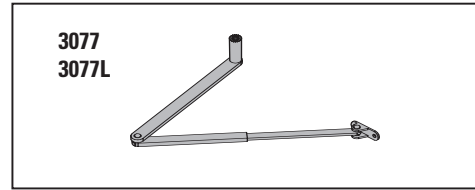
Non-handed long arm.

ROD & SHOE, 9140-79

Rod for use with regular arm.

LONG ROD & SHOE, 9140-79LR

Long rod for use with long arm.

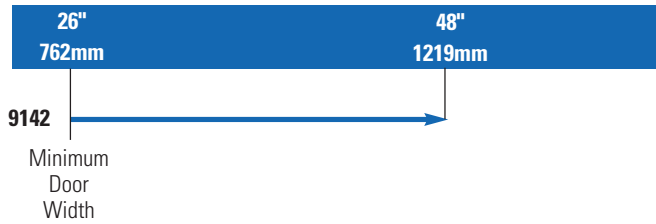


LCN 9140 SERIES

TABLE OF SIZES

→ Indicates recommended range of door width for operator.
Note: For All Benchmark Series
26" minimum door width for 27" push operator
36" minimum door width for full length push operator

DOOR WIDTH



HOW-TO-ORDER 9140 SERIES OPERATORS

1. SPECIFY FINISH.

- Standard Anodized Finish _____
Aluminum or Dark Bronze

Operator will be shipped with:

- STANDARD MOTOR GEARBOX (SF)
 - STANDARD CONTROL BOX (SC)
 - MOUNTING BRACKET
 - 27" METAL COVER (CL27)
 - REGULAR ARM (3077)
 - WOOD and MACHINE SCREW PACK
- Unless options listed below are selected.*

OPERATOR OPTIONS

COVER

- 36" Full Cover

ARM

- Long Arm (3077L)
(reveals 6" to 9 3/4")

SPECIAL TEMPLATE

- ST- _____

LCN 9150 SERIES

PAIR DOOR, SURFACE MOUNT (PUSH) OFFSET PIVOT/BUTT HINGE

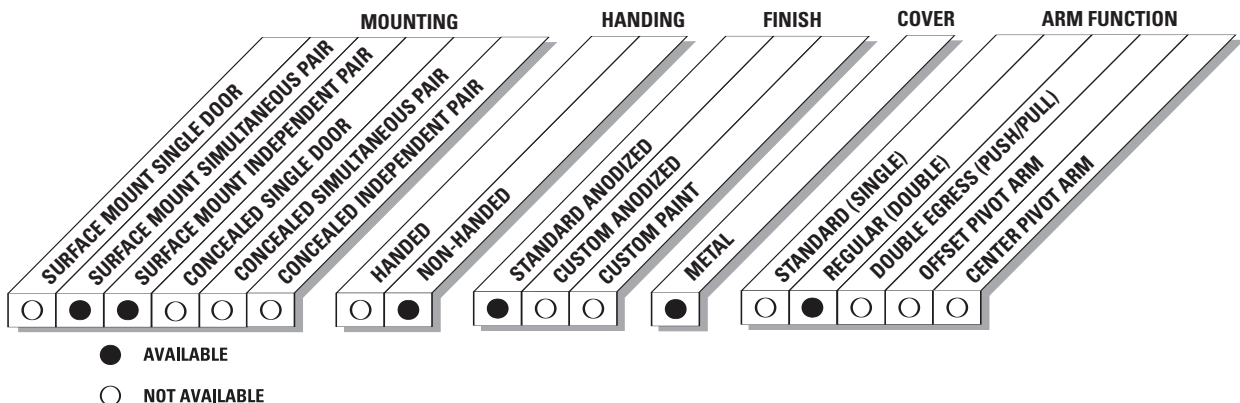


The 9150 BENCHMARK by LCN is an electrically powered low-energy operator. It provides easy access for people with disabilities, the elderly or the frail. Designed primarily for automatic opening applications that occasionally require manual opening. The BENCHMARK is a cost-effective solution for retrofitting an activated or manual door.

- ▶ **Push 'N Go permits non-switch activation**
- ▶ **Microprocessor control box ensures reliability and maintains customer settings**
- ▶ **Power Boost allows for increased closing force near latch**

- ▶ 9150 series operator is shipped with motor gearboxes, control boxes, mounting plate, regular arms, metal cover, wood and machine screw packs. Actuators available separately, see page 121.
- ▶ Pair of interior doors, surface mounted.
- ▶ ADA compliant.
- ▶ On/Off switch included as standard.
- ▶ Non-handed for either right or left swinging door.
- ▶ 72" cover is standard, 96" is optional.
- ▶ All potentiometers clearly labeled with their functions.
- ▶ LED lights indicate power to control box and motor gearbox.

9150 Series is fully compliant with UL 325 and meets the provisions of ANSI A156.19. The 9150 Series is UL listed for fire-rated applications. The 9150 Series also meets the provisions of the Americans with Disabilities Act.

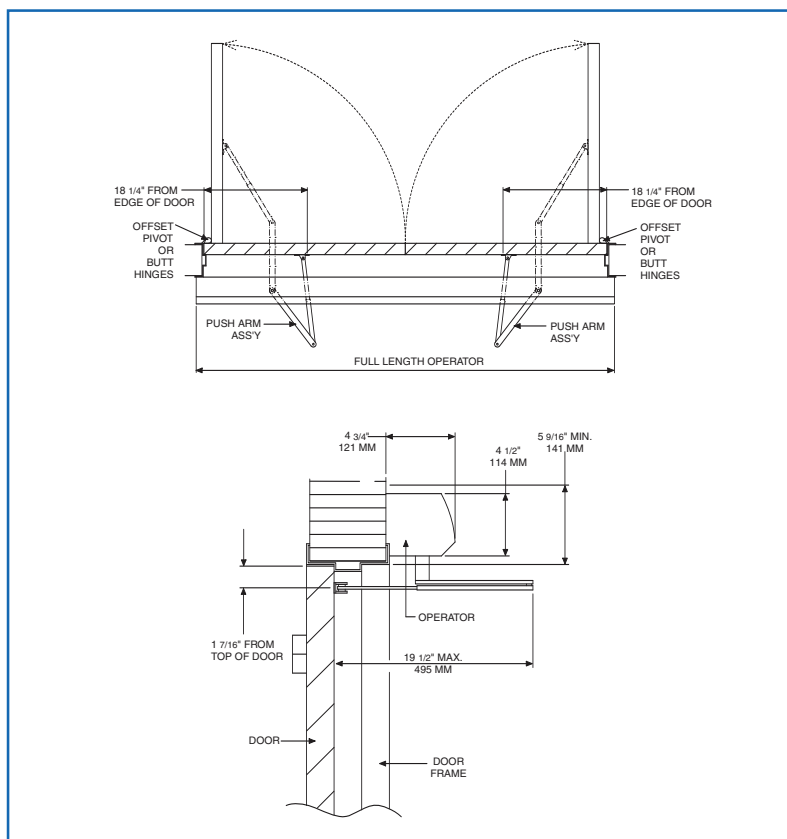


LCN 9150 SERIES

MOUNTING DETAILS

TOP JAMB, INDEPENDENT/SIMULTANEOUS PAIR (OFFSET PIVOT/BUTT HINGE, CENTER PIVOT, PUSH) MOUNTING

Determined by wiring method during installation.



MAXIMUM OPENING

Template allows 90 degree power opening and 90 degree manual opening.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Reveal** for push installations should not exceed 6" (152 mm) for REGULAR ARM and 9 3/4" (248 mm) for LONG ARM.
- ▶ **Head Frame** minimum 2" (51 mm).
- ▶ **Top Rail** minimum 2" (51 mm). Flush ceiling installation requires 5 1/4" (133 mm) minimum.
- ▶ **Opening and Closing Time** are variable by adjustments to the electronic control module located on the operator assembly. Maximum hold open time adjustable up to approximately 30 seconds.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

LCN 9150 SERIES

MOTOR GEARBOX

MOTOR GEARBOX ASSEMBLY, 9150-3454S

Driving mechanism for operator. For 27" unit. Switch included.

MOTOR GEARBOX ASSEMBLY (W/O SWITCH), 9150-3454

Driving mechanism for operator. For full length unit. Switch not included.

BRACKETS

MOUNTING BRACKET, 9150-3018

Standard mounting bracket.

CONTROL BOXES

CONTROL BOX, (120v), 9150-3462

Electronic controlling device with power supply output and power boost feature for Benchmark.

COVERS

METAL COVER, 9150-72MC

Standard, 72", non-handed, extruded aluminum cover.

FULL METAL COVER, 9150-72FC

96" Full length, non-handed, extruded aluminum cover.

COVER INSERT 9150-163

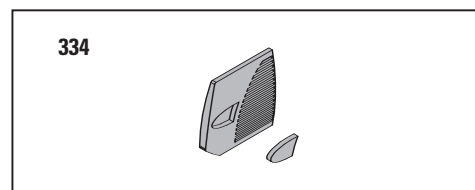
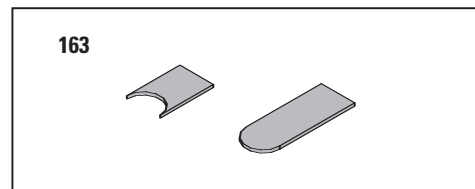
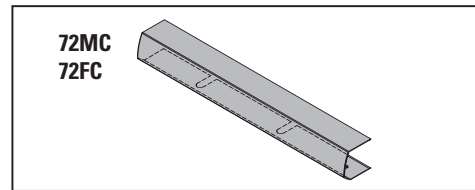
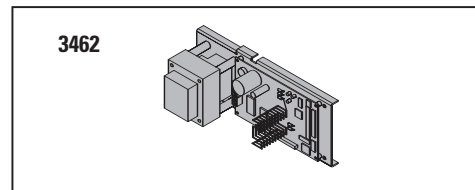
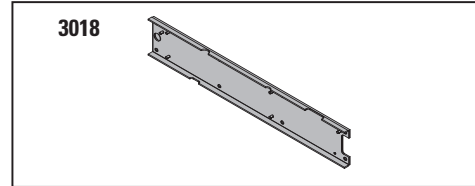
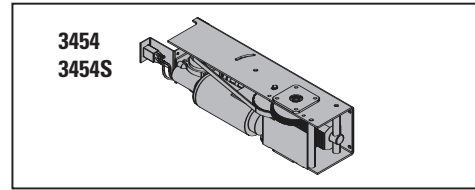
Used to cover operator shaft opening.

COVER END CAP INSERT, 9150-163-1

Used to cover switch hole opening.

COVER END CAP, 9150-334

Black plastic end caps.



LCN 9150 SERIES

ARMS

REGULAR ARM, 9140-3077

Non-handed arm.

LONG ARM, 9140-3077L

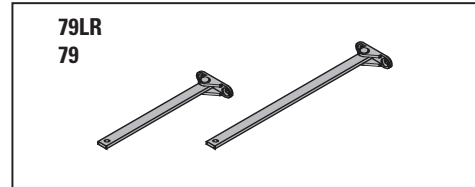
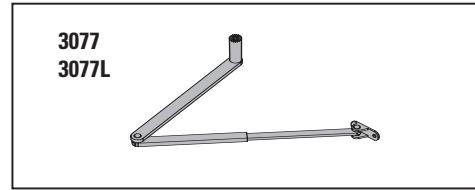
Non-handed long arm.

ROD & SHOE, 9140-79

Rod for use with regular arm.

LONG ROD & SHOE, 9140-79LR

Long rod for use with long arm.

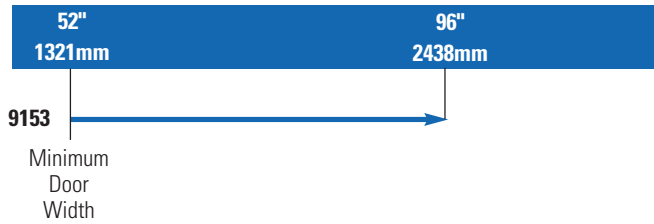


LCN 9150 SERIES

TABLE OF SIZES

→ Indicates recommended range of door width for operator.
Note: For All Benchmark Series
52" minimum door width for full length push double door operator.

DOOR WIDTH



HOW-TO-ORDER 9150 SERIES OPERATORS

1. SPECIFY FINISH.

- Standard Anodized Finish _____
Aluminum or Dark Bronze

Operator will be shipped with:

- STANDARD MOTOR GEARBOX (2 ea) (SF)
 - STANDARD CONTROL BOX (2 ea.) (SC)
 - MOUNTING BRACKET (2 ea.)
 - 72" METAL COVER (CL72)
 - REGULAR ARMS (2 ea.) (3077)
 - WOOD and MACHINE SCREW PACK
- Unless options listed below are selected.

OPERATOR OPTIONS

COVER

- 96" Full Length Cover

ARM

- Long Arm (3077L)
(reveals 6" to 9 3/4")

SPECIAL TEMPLATE

- ST- _____

LCN SENIOR SWING UNIQUE FEATURES

Digital Control Suite

Provides exceptionally precise control of a large range of built-in functions combined with superior durability and performance. Visual indications and digital readouts of all control function settings and activity make adjustments easy, fast and accurate.

Dual Independent Program Memories

Each unit is pre-programmed to factory default settings. The installer can adjust the unit to meet the job site requirements. These field settings are locked into the computer's memory. Any subsequent field adjustments replace the original field adjustments. The factory settings are always retained in memory and can be recalled to replace the field settings in just seconds, restoring the unit to its original programming.

On-Board Diagnostics

Sophisticated built-in diagnostics program monitors the system microprocessor, power supplies, drive systems and actuator and safety circuits. Reduces the time required to make sure the installation is complete and correct.

On-Board Power Supply

Provides 24V AC output or 24V DC output with rectifier to power card readers, manual actuators and other peripherals.

Plug and Play Sensors

Motion sensors and safety sensors feature a "plug and play" concept allowing fast and accurate wiring connections in only seconds.

Electronic Circuit Protection

High voltage (primary AC Input) is protected by replaceable fuse. Low voltage (secondary AC input) is protected by self-resetting fuses.

Visual Function Indicators

LED's allow direct observation of these inputs while in visual function indicator mode:

- ▶ Key switch- set to Auto, OFF or HOLD
- ▶ Activate
- ▶ DMSS approach
- ▶ DMSS safety
- ▶ Bodyguard
- ▶ Power Boost Disable

Programming Mode

Allows tailoring the following functions to meet specific site conditions

- ▶ Opening Speed
- ▶ Backcheck Speed
- ▶ Backcheck Position
- ▶ Hold Open Delay
- ▶ Latch Position
- ▶ Auto Reverse- Closing
- ▶ Electric Lock Delay
- ▶ Power Boost
- ▶ Push 'N' Go
- ▶ Alternate Action
- ▶ Safety Slow/Stop
- ▶ Slow Down Disable

Push 'N Go

Allows pedestrians to walk up to the door and push it open as if it were a manual door. After the door is manually opened approximately 5 degrees, the Push 'N Go feature takes over and continues to open the door – slowly and automatically to the full open position. With Push 'N Go, the door will stay fully open from one to 32 seconds, depending on the time delay chosen.

Auto Reverse

A safety feature that reverses the direction of the door when it comes into contact with an object during either opening or closing.

Safety Slow/Stops Function

Once the door starts opening, any person or object entering the swing area will cause the door to go into a safety slow speed. This function can be set to allow for a short stop once a person or object is sensed.

Power Boost

Adds an additional latching force to ensure secure latching in severe wind or stack conditions. Power Boost is also ideal for overcoming slowing obstacles such as electric strikes. Provides approximately 25 lbs. of additional closing force.

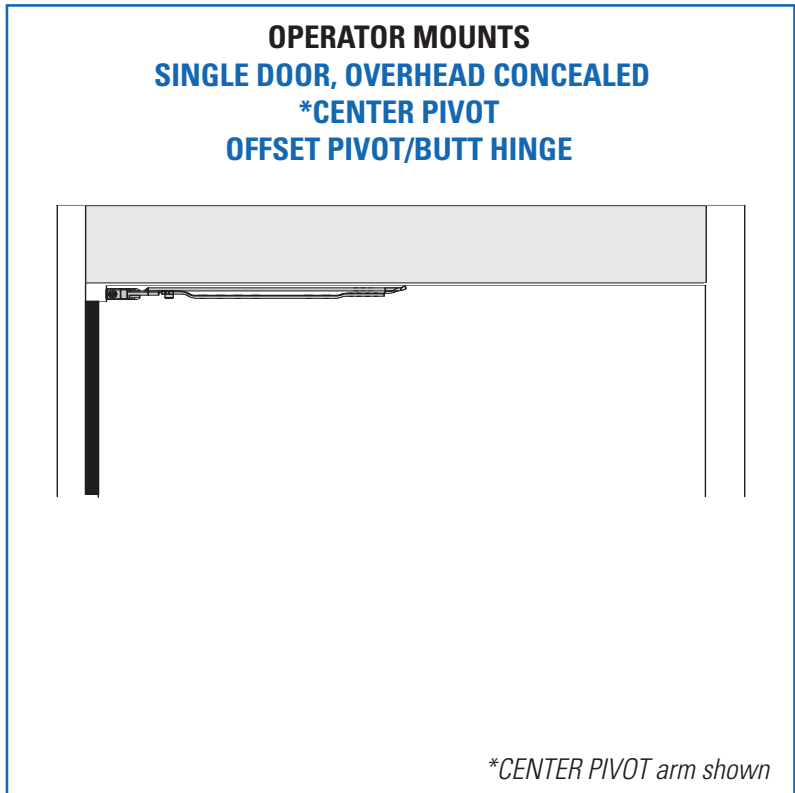
Microprocessor

Control unit allows for quiet efficiency in operation. Combined with the all electromechanical unit, it eliminates unnecessary wear and prolongs the life of the unit.

Electric Lock Delay

Causes a 1 second delay between activate signal and door opening to allow time for most electric locks to disengage before operator opens door.

LCN 2810 SERIES



The 2810 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operator when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

- ▶ **Push 'N Go** permits non-switch activation
- ▶ **Power Boost** provides additional latching force
- ▶ **Electromechanical unit** with microprocessor control
- ▶ **Meets International Building Code** requirements and ANSI A156.19
- ▶ **UL approved** for fire doors

- ▶ 2810 series operator is shipped with motor gearbox, control box, arm, bottom pivot, header, and mounting hardware. Actuators available separately, see page 121.
- ▶ Single door, overhead concealed.
- ▶ Meets ADA, requirements (power mode only).
- ▶ Handed product.
- ▶ 36" header length is standard. Specify length 33" to 49" max.
- ▶ Double door header available up to 98", specify length 49" to 98" max. Consult factory regarding this option.
- ▶ Fixed or breakaway stop available with center pivot arm.
- ▶ Adjustable hold open period of 1 to 32 seconds in automatic or manual mode.

2810 Series is fully compliant with UL 325 & UL 1998 and meets the provisions of ANSI A156.19. The 2810 Series is UL listed for fire-rated applications. The 2810 Series also meets the provisions of the Americans with Disabilities Act.

MOUNTING					HANDING			FINISH		COVER		ARM FUNCTION		
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
SURFACE MOUNT SINGLE DOOR					HANDED			METAL		STANDARD (SINGLE)		REGULAR (DOUBLE)		
SURFACE MOUNT SIMULTANEOUS PAIR					NON-HANDED			STANDARD ANODIZED		REGULAR (DOUBLE)		DOUBLE EGRESS (PUSH/PULL)		
CONCEALED SINGLE DOOR					STANDARD ANODIZED			CUSTOM ANODIZED		OFFSET PIVOT ARM		CENTER PIVOT ARM		
CONCEALED SIMULTANEOUS PAIR					CUSTOM ANODIZED			CUSTOM PAINT		CENTER PIVOT ARM				
CONCEALED INDEPENDENT PAIR														

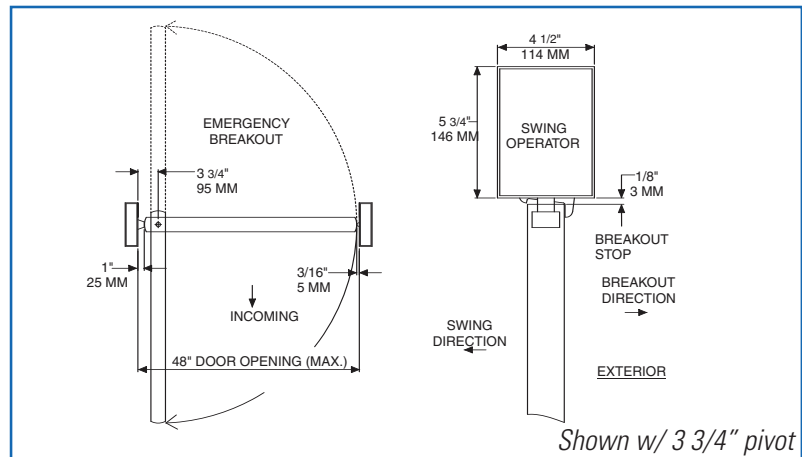
AVAILABLE
 NOT AVAILABLE

LCN 2810 SERIES

MOUNTING DETAILS

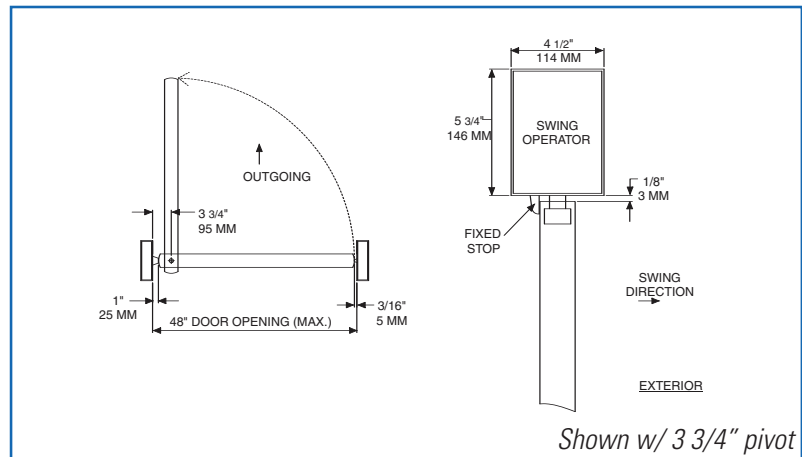
CONCEALED SINGLE DOOR (CENTER PIVOT, EMERGENCY BREAKOUT, PULL) MOUNTING

Minimum header length 36".



CONCEALED SINGLE DOOR (CENTER PIVOT, FIXED STOP, PUSH) MOUNTING

Minimum header length 36".



MAXIMUM OPENING

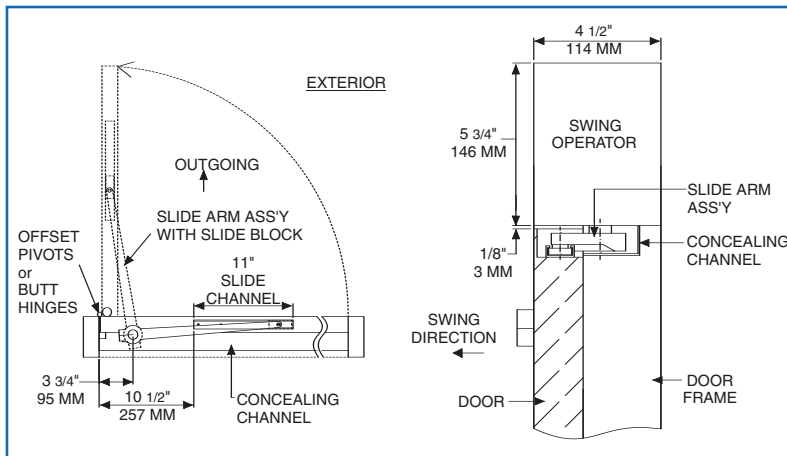
Template allows 90 degree power opening and 90 degree manual opening.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

- ▶ **Head Frame** minimum 36" (L) x 5 3/4" (H) x 4 1/2" (W) " (914 mm x 146 mm x 114 mm).
- ▶ **Top Rail** minimum 2" (51 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **Door Stop** required for each door panel.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

LCN 2810 SERIES



CONCEALED SINGLE DOOR (OFFSET PIVOT OR BUTT HINGE, SLIDE ARM, PUSH) MOUNTING

Minimum header length 33".

Installations require bottom pivot and two intermediate pivots.

- ▶ **Head Frame** minimum 33" (L) x 5 3/4" (H) x 4 1/2" (W) " (838 mm x 146 mm x 114 mm).
- ▶ **Top Rail** minimum 2" (51 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **Door Stop** required for each door panel.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

MAXIMUM OPENING

Template allows 90 degree power opening and 90 degree manual opening.

Special Templates

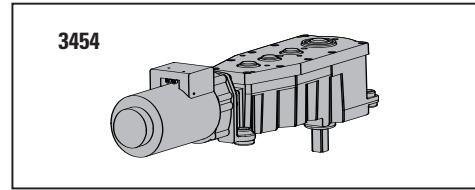
Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

LCN 2810 SERIES

MOTOR GEARBOX

MOTOR GEARBOX (STANDARD FORCE) – SENIOR SWING, 2810-3454

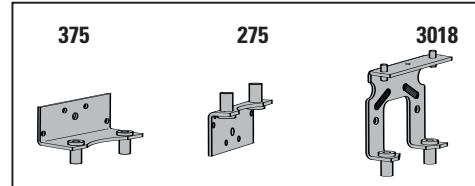
Driving mechanism for operator. Provides 15lbs opening force. Handed.



MOUNTING BRACKET

MOUNTING BRACKET – 3 3/4", 2810-375

Motor gearbox mounting bracket for 3 3/4" center, offset pivot, butt hinge installations. Front bracket.

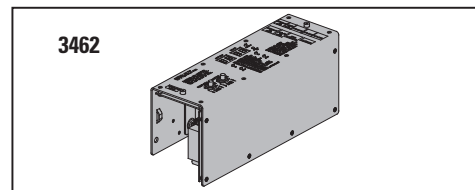


MOUNTING BRACKET – 2 3/4", 2810-275

Motor gearbox mounting bracket for 2 3/4" center pivot installations. Front bracket.

REAR MOUNT BRACKET, 2810-3018

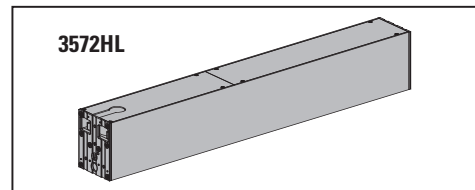
Motor gearbox mounting bracket. Rear bracket.



CONTROL BOXES

CONTROL BOX- SENIOR SWING, 2810-3462

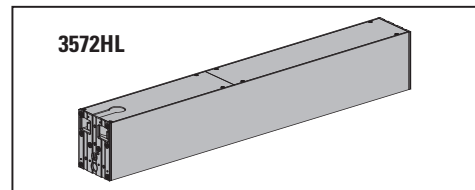
Electronic controlling device for Senior Swing.



HEADERS

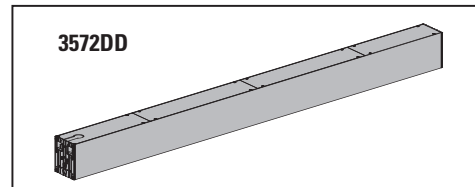
Header, 2810-3572HL

Standard, mounting header. Single door, single operator. Specify length 30" to 49" maximum.



Header, 2810-3572DD

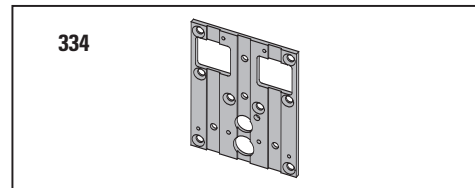
Standard, mounting header. Double door, single operator. Specify length 49" to 98" maximum.



END CAPS

HEADER END CAPS, 2810-334

End cap with openings for wiring.

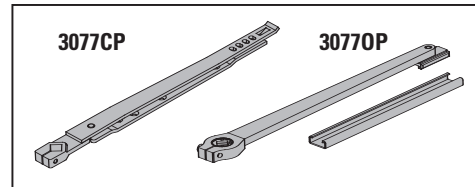


ARMS

CENTER PIVOT ARM, 2810-3077CP

(CENTER PIVOT INSTALLATIONS ONLY)

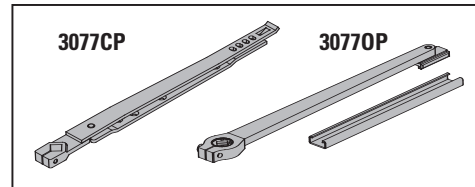
Used with overhead concealed operators and center pivoted doors.



OFFSET PIVOT ARM, 2810-3077OP

(OFFSET PIVOT OR BUTT HUNG INSTALLATIONS ONLY)

Handed arm. Used with overhead concealed operators.

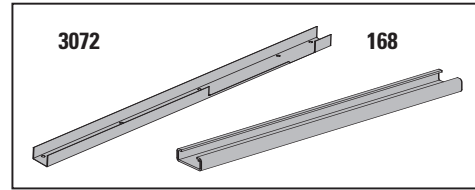


LCN 2810 SERIES

CHANNELS

CONCEALING CHANNEL, 2810-3072

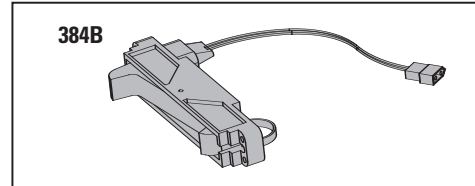
Used to conceal arm in overhead concealed applications. For offset pivot and butt hinges installations. If ordering separately specify length and hand.



SLIDE CHANNEL, 2810-168

(OFFSET PIVOT or BUTT HINGE INSTALLATIONS ONLY)

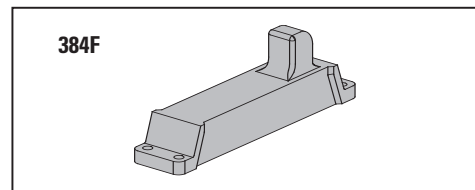
Mounts in concealing channel. Allows arm to slide.



INSTALLATION ACCESSORIES

DOOR STOP BREAKAWAY, 2810-384B

Allows in swinging door to swing out in case of emergency (Pull installations). For center pivoted installations only.

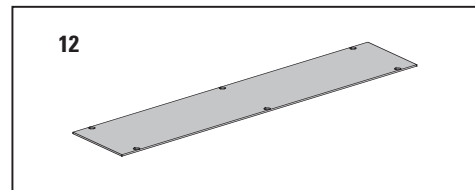


DOOR STOP FIXED, 2810-384F

Prevents out swinging door from swinging in (Push installations). For center pivoted installations only.

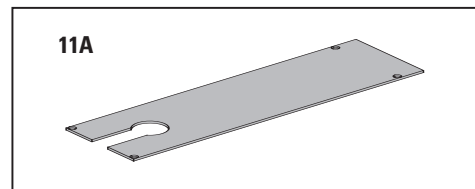
FILLER PLATE BLANK, 2810-12

Completes length of header box.



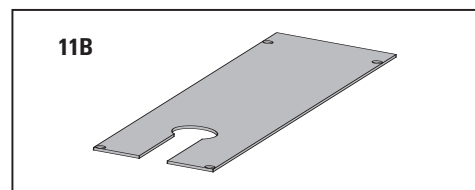
SPINDLE PLATE – 2 3/4", 2810-11A

Hides bottom of motor gearbox. Completes header box. Cutout allows for motor gearbox shaft. For 2 3/4" offset pivot/butt hinge installations.



SPINDLE PLATE – 3 3/4", 2810-11B

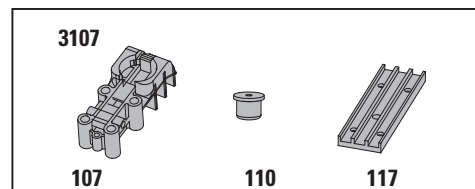
Hides bottom of motor gearbox. Completes header box. Cutout allows for motor gearbox shaft. For 3 3/4" center pivot installations.



PIVOTS

BOTTOM PIVOT ASSEMBLY, 2810-3107

Includes pivot body, pivot post and bottom pivot plate. For overhead concealed, center pivoted installations. Includes; 2810-107, 2810-110 and 2810-117.



PIVOT BODY, 2810-107

Bottom pivot body for center pivoted installations.

PIVOT POST, 2810-110

Connects pivot body to bottom pivot plate for center pivoted installations.

BOTTOM PIVOT PLATE, 2810-117

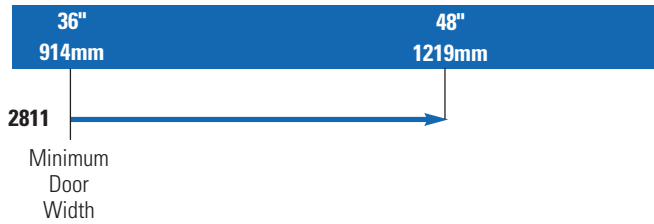
Applied to floor for center pivoted installations.

LCN 2810 SERIES

TABLE OF SIZES

→ Indicates recommended range of door width for operator.
 Note: For all Senior Swing Series
 Single Door - Width per leaf 36" minimum, 48" maximum

DOOR WIDTH



HOW-TO-ORDER 2810 SERIES OPERATORS

1. SELECT INSTALLATION TYPE

2811

2. ARMS

- Standard 3 3/4" (Offset pivoted) Arm (3077OP)
- Standard 2 3/4" (Center pivoted) Arm (3077CP)
- Standard 3 3/4" (Center pivoted) Arm (3077CP)

3. SPECIFY HAND

- RH
- LH

4. SPECIFY FINISH.

- Standard Anodized Finish _____
Aluminum or Dark Bronze

Operator will be shipped with:

- STANDARD MOTOR GEARBOX (SF)
 - STANDARD CONTROL BOX (SC)
 - 36" HEADER (36HL)
 - 2 3/4" PIVOT POINT
 - WOOD and MACHINE SCREW PACK
- Unless options listed below are selected.*

OPERATOR OPTIONS

HEADER

- HL__ (Specify length 33" to 49" offset pivot)
- HL__ (Specify length 36" to 49" center pivot)
- DD__ (Specify length 49" to 98")

STOPS*

- Positive Mechanical Stop (POS)
- Panic Breakaway Stop (BKY)

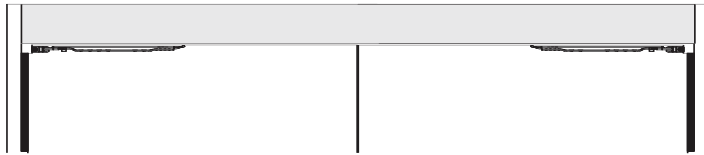
**Available with Center Pivoted installations only.*

SPECIAL TEMPLATE

- ST-_____

LCN 2850 SERIES

OPERATOR MOUNTS SIMULTANEOUS PAIR, OVERHEAD CONCEALED *CENTER PIVOT OFFSET PIVOT/BUTT HINGE



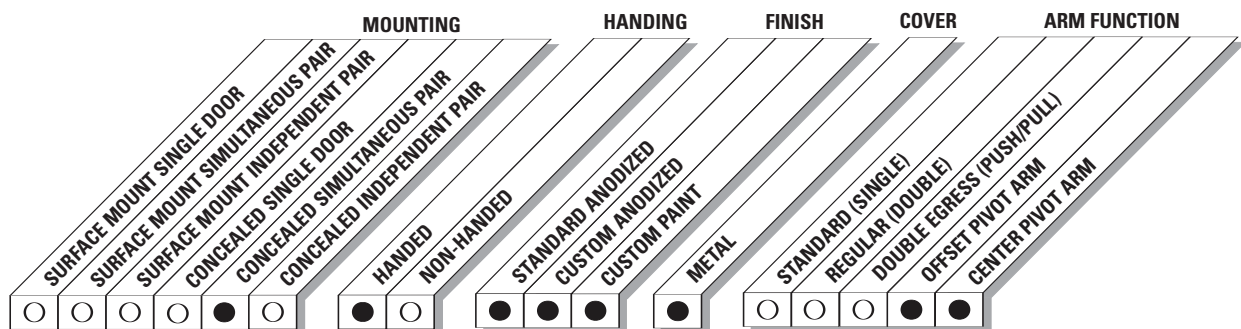
*CENTER PIVOT arm shown

The 2850 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operator when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

- ▶ **Push 'N Go permits non-switch activation**
- ▶ **Power Boost provides additional latching force**
- ▶ **Electromechanical unit with microprocessor control**
- ▶ **Digital keypad for easy setup**
- ▶ **Meets International Building Code requirements and ANSI A156.19**
- ▶ **UL approved for fire doors**

- ▶ 2850 series operator is shipped with motor gearbox, control box, arm, bottom pivot, header, and mounting hardware. Actuators available separately, see page 121.
- ▶ Simultaneous pair, overhead concealed.
- ▶ Meets ADA, requirements (power mode only).
- ▶ Handed product.
- ▶ 72" header length is standard. Specify other length 60" to 98" max. Consult factory regarding this option.
- ▶ Fixed or breakaway stop available (center pivot arm).
- ▶ Adjustable hold open period of 1 to 32 seconds in automatic or manual mode.

2850 Series is fully compliant with UL 325 & UL 1998 and meets the provisions of ANSI A156.19. The 2850 Series is UL listed for fire-rated applications. The 2850 Series also meets the provisions of the Americans with Disabilities Act.



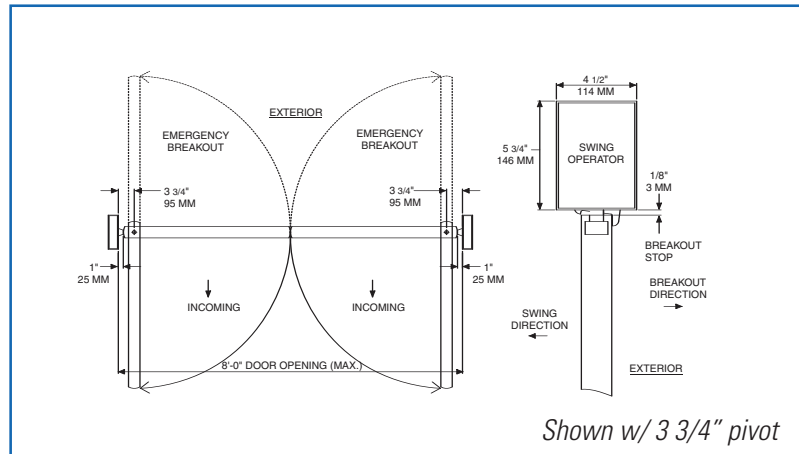
● AVAILABLE
○ NOT AVAILABLE

LCN 2850 SERIES

MOUNTING DETAILS

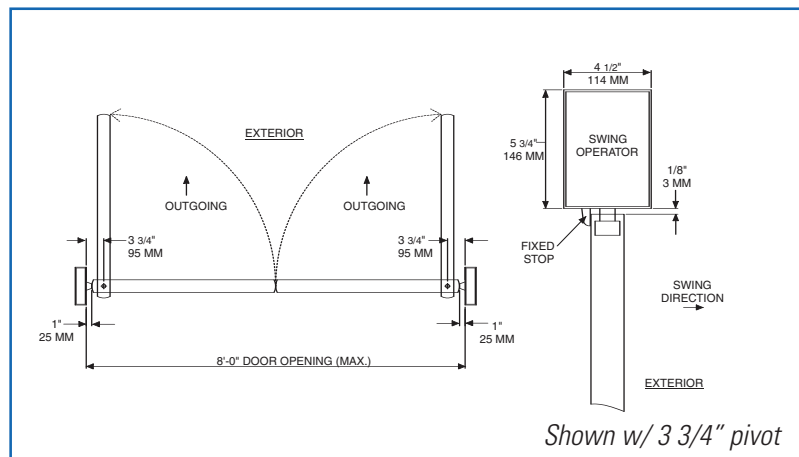
CONCEALED SIMULTANEOUS PAIR (CENTER PIVOT, EMERGENCY BREAK OUT, PULL) MOUNTING

Minimum header length 60" and 70" with stops.



CONCEALED SIMULTANEOUS PAIR (CENTER PIVOT, FIXED STOP, PUSH) MOUNTING

Minimum header length 60" and 70" with stops.



MAXIMUM OPENING

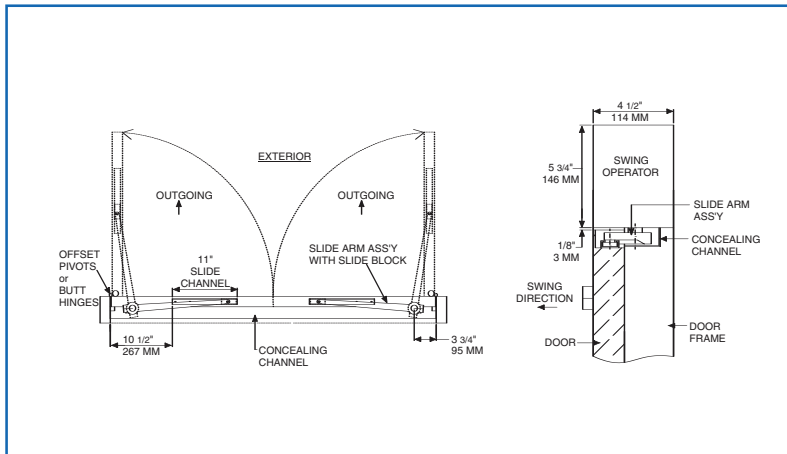
Template allows 90 degree power opening and 90 degree manual opening.

- ▶ **Head Frame** minimum 60" (L) x 5 3/4" (H) x 4 1/2" (W) " (1524 mm x 146 mm x 114 mm).
- ▶ **Top Rail** minimum 2" (51 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **Door Stop** required for each door panel.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

LCN 2850 SERIES



CONCEALED SIMULTANEOUS PAIR (OFFSET PIVOT/BUTT HINGE, PUSH) MOUNTING

Installations require bottom pivot and two intermediate pivots.

- ▶ **Head Frame** minimum 60" (L) x 5 3/4" (H) x 4 1/2" (W) " (1524 mm x 146 mm x 114 mm).
- ▶ **Top Rail** minimum 2" (51 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **Door Stop** required for each door panel.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements

MAXIMUM OPENING

Template allows 90 degree power opening and 90 degree manual opening.

Special Templates

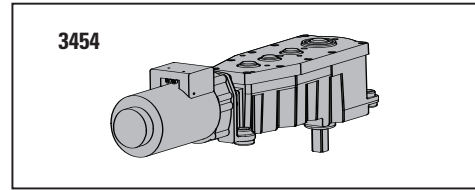
Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

LCN 2850 SERIES

MOTOR GEARBOX

MOTOR GEARBOX (STANDARD FORCE) – SENIOR SWING, 2850-3454

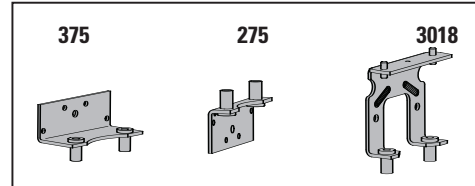
Driving mechanism for operator. Provides 15lbs opening force. Handed.



MOUNTING BRACKET

MOUNTING BRACKET – 3 3/4", 2850-375

Motor gearbox mounting bracket for 3 3/4" center, offset pivot, butt hinge installations. Front bracket.

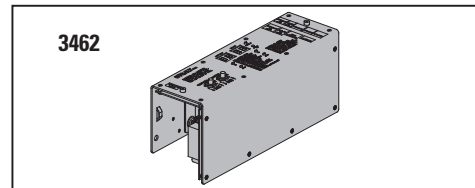


MOUNTING BRACKET – 2 3/4", 2850-275

Motor gearbox mounting bracket for 2 3/4" center pivot installations. Front bracket.

REAR MOUNT BRACKET, 2850-3018

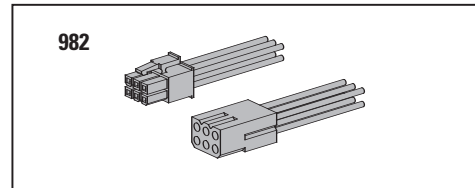
Motor gearbox mounting bracket. Rear bracket.



CONTROL BOXES

CONTROL BOX- SENIOR SWING, 2850-3462

Electronic controlling device for Senior Swing.



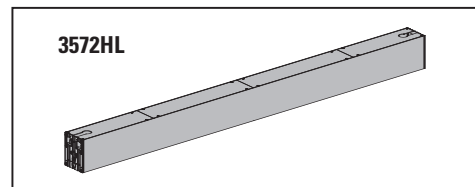
COMPANION CABLE, 2850-982

Cable that allows one control box to run two motor gearboxes. For use with Senior Swing.

HEADERS

HEADER, 2850-3572HL

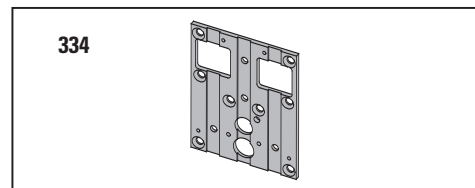
Standard, mounting header. Pair door, two operators. Specify length 60" to 98" maximum.



END CAPS

HEADER END CAPS, 2850-334

End cap with openings for wiring.



ARMS

CENTER PIVOT ARM, 2810-3077CP

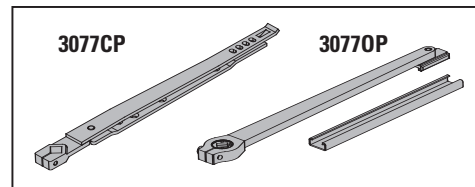
(CENTER PIVOT INSTALLATIONS ONLY)

Used with overhead concealed operators and center pivoted doors.

OFFSET PIVOT ARM, 2810-3077OP

(OFFSET PIVOT OR BUTT HUNG INSTALLATIONS ONLY)

Handed arm. Used with overhead concealed operators.

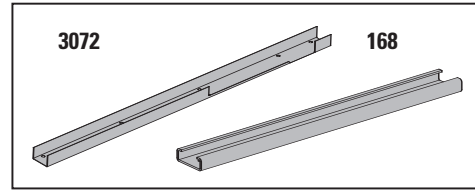


LCN 2850 SERIES

CHANNELS

CONCEALING CHANNEL, 2850-3072

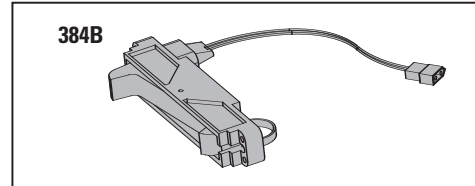
Used to conceal arm in overhead concealed applications. For offset pivot and butt hinges installations. If ordering separately specify length and hand.



SLIDE CHANNEL, 2810-168

(OFFSET PIVOT or BUTT HINGE INSTALLATIONS ONLY)

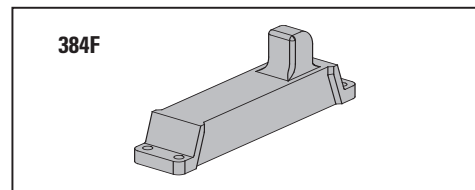
Mounts in concealing channel. Allows arm to slide.



INSTALLATION ACCESSORIES

DOOR STOP BREAKAWAY, 2850-384B

Allows in swinging door to swing out in case of emergency (Pull installations). For center pivoted installations only.

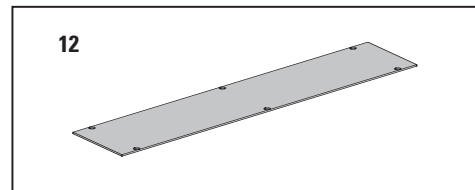


DOOR STOP FIXED, 2850-384F

Prevents out swinging door from swinging in (Push installations). For center pivoted installations only.

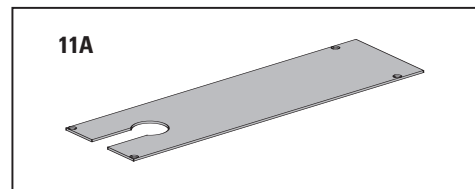
FILLER PLATE BLANK, 2850-12

Completes length of header box.



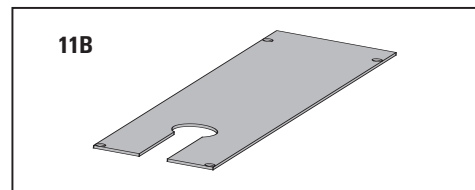
SPINDLE PLATE – 2 3/4", 2850-11A

Hides bottom of motor gearbox. Completes header box. Cutout allows for motor gearbox shaft. For 2 3/4" offset pivot/butt hinge installations.



SPINDLE PLATE – 3 3/4", 2850-11B

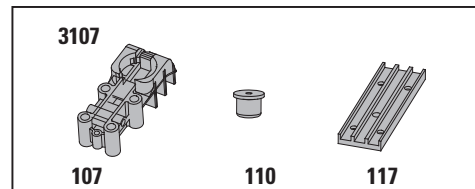
Hides bottom of motor gearbox. Completes header box. Cutout allows for motor gearbox shaft. For 3 3/4" center pivot installations.



PIVOTS

BOTTOM PIVOT ASSEMBLY, 2850-3107

Includes pivot body, pivot post and bottom pivot plate. For overhead concealed, center pivoted installations. Includes; 2850-107, 2850-110 and 2850-117.



PIVOT BODY, 2850-107

Bottom pivot body for center pivoted installations.

PIVOT POST, 2850-110

Connects pivot body to bottom pivot plate for center pivoted installations.

BOTTOM PIVOT PLATE, 2850-117

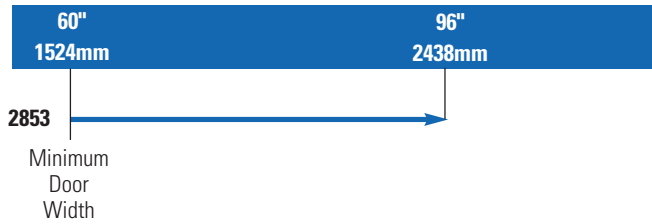
Applied to floor for center pivoted installations.

LCN 2850 SERIES

TABLE OF SIZES

→ Indicates recommended range of door width for operator.
 Note: For all Senior Swing Series
 Simultaneous Pair – Width per leaf 30" minimum to 48" maximum

DOOR WIDTH



HOW-TO-ORDER 2850 SERIES OPERATORS

1. SELECT INSTALLATION TYPE

2853

2. ARMS

- Standard 3 3/4" (Offset pivoted) Arm (3077OP)
- Standard 2 3/4" (Center pivoted) Arm (3077CP)
- Standard 3 3/4" (Center pivoted) Arm (3077CP)

3. SPECIFY FINISH.

- Standard Anodized Finish _____
Aluminum or Dark Bronze

Operator will be shipped with:

-STANDARD MOTOR GEARBOX (SF) (1 LH & 1 RH)
 -STANDARD CONTROL BOX (SC)
 -COMPANION CABLE
 -72" HEADER (72HL)
 -2 3/4" PIVOT POINT
 -WOOD and MACHINE SCREW PACK
 Unless options listed below are selected.

OPERATOR OPTIONS

HEADER

- HL__ (Specify length 60" to 98")

STOPS*

- Pair Positive Mechanical Stop (POS)
- Pair Panic Breakaway Stop (BKY)

*Available with Center Pivoted installations only.

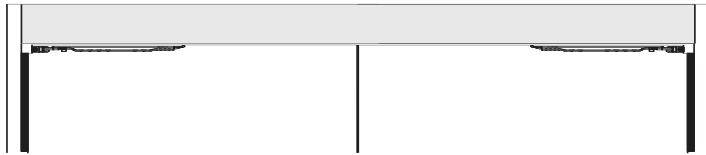
SPECIAL TEMPLATE

- ST-_____

LCN 2860 SERIES

FEATURES

OPERATOR MOUNTS INDEPENDENT PAIR, OVERHEAD CONCEALED *CENTER PIVOT OFFSET PIVOT/BUTT HINGE



*CENTER PIVOT arm shown

The 2860 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operator when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

- ▶ **Push 'N Go permits non-switch activation**
- ▶ **Power Boost provides additional latching force**
- ▶ **Electromechanical unit with microprocessor control**
- ▶ **Digital keypad for easy setup**
- ▶ **Meets International Building Code requirements and ANSI A156.19**
- ▶ **UL approved for fire doors**

- ▶ 2860 series operator is shipped with motor gearbox, control boxes, bottom pivots, arms, header, and mounting hardware. Actuators available separately, see page 121.
- ▶ Independent pair of doors, overhead concealed.
- ▶ Meets ADA, requirements (power mode only).
- ▶ Handed product.
- ▶ 72" header length is standard. Specify other length 65" to 98" max. Consult factory regarding this option.
- ▶ Fixed or breakaway stop available (center pivot arm).
- ▶ Adjustable hold open period of 1 to 32 seconds in automatic or manual mode.

2860 Series is fully compliant with UL 325 & UL 1998 and meets the provisions of ANSI A156.19. The 2860 Series is UL listed for fire-rated applications. The 2860 Series also meets the provisions of the Americans with Disabilities Act.

MOUNTING			HANDING			FINISH		COVER		ARM FUNCTION			
<input type="radio"/> SURFACE MOUNT SINGLE DOOR	<input type="radio"/> SURFACE MOUNT SIMULTANEOUS PAIR	<input checked="" type="radio"/> CONCEALED SINGLE DOOR	<input checked="" type="radio"/> HANDED	<input type="radio"/> NON-HANDED	<input type="radio"/> STANDARD ANODIZED	<input type="radio"/> CUSTOM ANODIZED	<input type="radio"/> CUSTOM PAINT	<input type="radio"/> METAL	<input type="radio"/> STANDARD (SINGLE)	<input type="radio"/> REGULAR (DOUBLE)	<input checked="" type="radio"/> DOUBLE EGRESS (PUSH/PULL)	<input type="radio"/> OFFSET PIVOT ARM	<input type="radio"/> CENTER PIVOT ARM
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

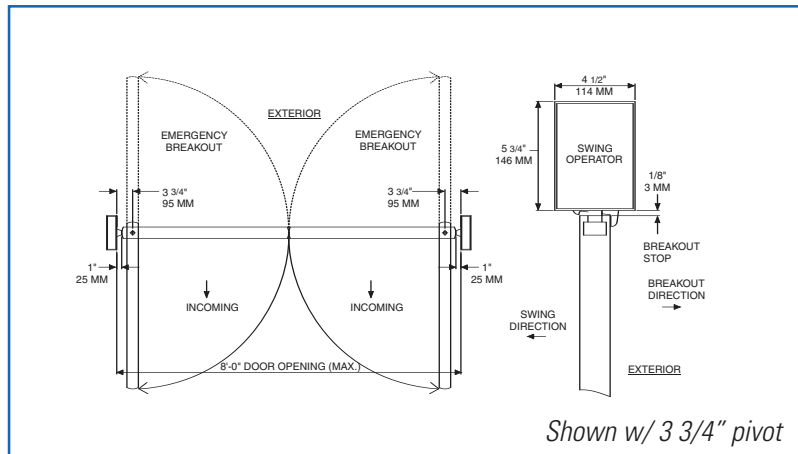
AVAILABLE
 NOT AVAILABLE

LCN 2860 SERIES

MOUNTING DETAILS

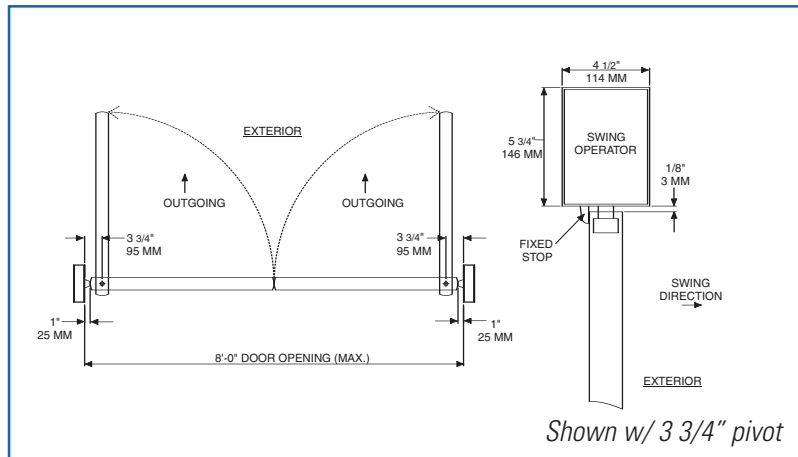
CONCEALED INDEPENDENT PAIR (CENTER PIVOT, EMERGENCY BREAK OUT, PULL) MOUNTING

Minimum header length 65" and 70" with stops.



CONCEALED INDEPENDENT PAIR (CENTER PIVOT, FIXED STOP, PUSH) MOUNTING

Minimum header length 65" and 70" with stops.



MAXIMUM OPENING

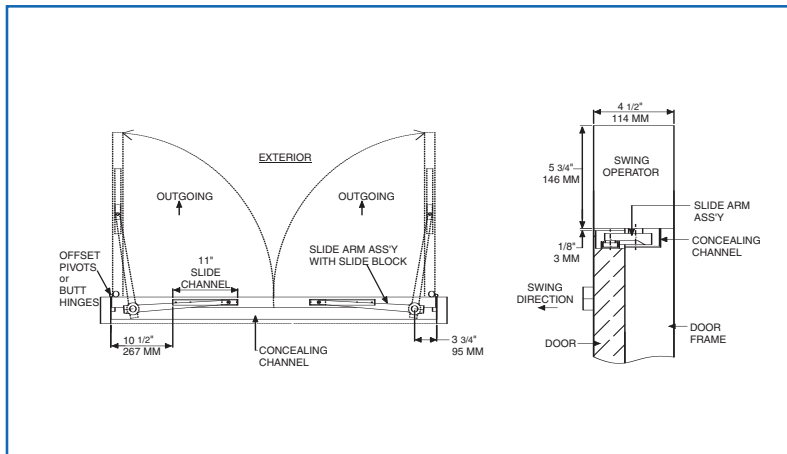
Template allows 90 degree power opening and 90 degree manual opening.

- ▶ **Head Frame** minimum 65" (L) x 5 3/4" (H) x 4 1/2" (W) " (1651 mm x 146 mm x 114 mm).
- ▶ **Top Rail** minimum 2" (51 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **Door Stop** required for each door panel.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

LCN 2860 SERIES



CONCEALED INDEPENDENT PAIR (OFFSET PIVOT/BUTT HINGE, PUSH) MOUNTING

Installations require bottom pivot and two intermediate pivots.

- ▶ **Head Frame** minimum 65" (L) x 5 3/4" (H) x 4 1/2" (W) " (1651 mm x 146 mm x 114 mm).
- ▶ **Top Rail** minimum 2" (51 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **Door Stop** required for each door panel.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements

MAXIMUM OPENING

Template allows 90 degree power opening and 90 degree manual opening.

Special Templates

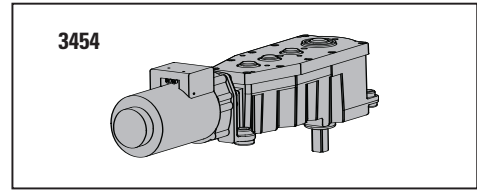
Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

LCN 2860 SERIES

MOTOR GEARBOX

MOTOR GEARBOX (STANDARD FORCE) – SENIOR SWING, 2860-3454

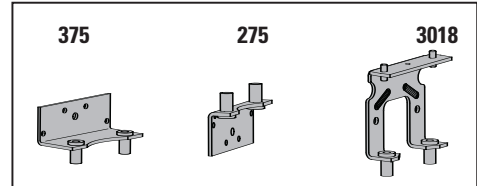
Driving mechanism for operator. Provides 15lbs opening force. Handed.



MOUNTING BRACKET

MOUNTING BRACKET – 3 3/4", 2860-375

Motor gearbox mounting bracket for 3 3/4" center, offset pivot, butt hinge installations. Front bracket.

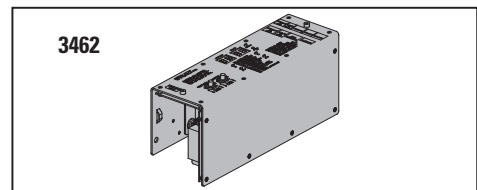


MOUNTING BRACKET – 2 3/4", 2860-275

Motor gearbox mounting bracket for 2 3/4" center pivot installations. Front bracket.

REAR MOUNT BRACKET, 2860-3018

Motor gearbox mounting bracket. Rear bracket.



CONTROL BOXES

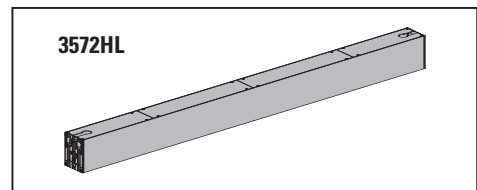
CONTROL BOX- SENIOR SWING, 2860-3462

Electronic controlling device for Senior Swing.

HEADERS

HEADER, 2860-3572HL

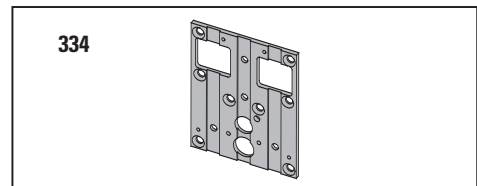
Standard, mounting header. Pair door, two operators. Specify length 65" to 98" maximum.



END CAPS

HEADER END CAPS, 2860-334

End cap with openings for wiring.



ARMS

CENTER PIVOT ARM, 2810-3077CP

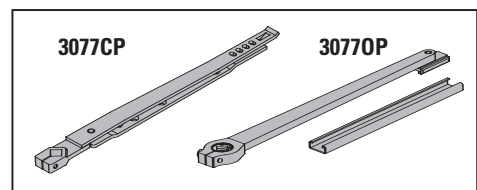
(CENTER PIVOT INSTALLATIONS ONLY)

Used with overhead concealed operators and center pivoted doors.

OFFSET PIVOT ARM, 2810-3077OP

(OFFSET PIVOT OR BUTT HUNG INSTALLATIONS ONLY)

Handed arm. Used with overhead concealed operators.

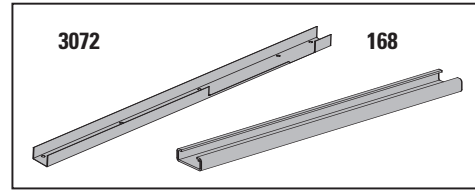


LCN 2860 SERIES

CHANNELS

CONCEALING CHANNEL, 2860-3072

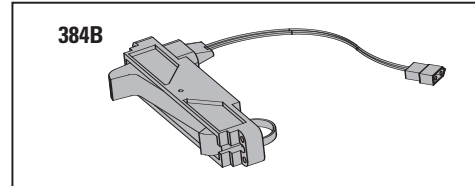
Used to conceal arm in overhead concealed applications. For offset pivot and butt hinges installations. If ordering separately specify length and hand.



SLIDE CHANNEL, 2810-168

(OFFSET PIVOT or BUTT HINGE INSTALLATIONS ONLY)

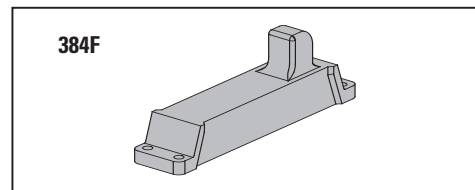
Mounts in concealing channel. Allows arm to slide.



INSTALLATION ACCESSORIES

DOOR STOP BREAKAWAY, 2860-384B

Allows in swinging door to swing out in case of emergency (Pull installations). For center pivoted installations only.

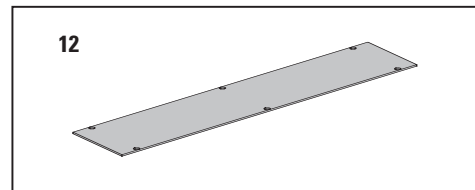


DOOR STOP FIXED, 2860-384F

Prevents out swinging door from swinging in (Push installations). For center pivoted installations only.

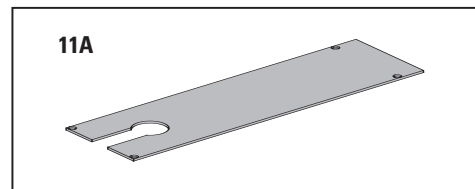
FILLER PLATE BLANK, 2860-12

Completes length of header box.



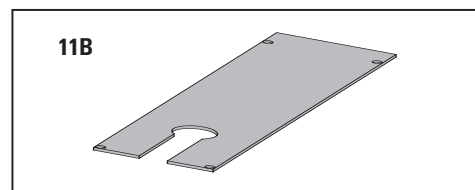
SPINDLE PLATE – 2 3/4", 2860-11A

Hides bottom of motor gearbox. Completes header box. Cutout allows for motor gearbox shaft. For 2 3/4" offset pivot/butt hinge installations.



SPINDLE PLATE – 3 3/4", 2860-11B

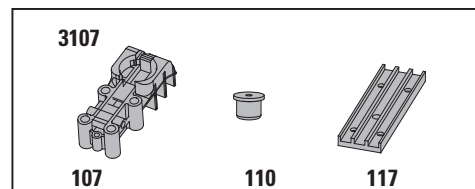
Hides bottom of motor gearbox. Completes header box. Cutout allows for motor gearbox shaft. For 3 3/4" center pivot installations.



PIVOTS

BOTTOM PIVOT ASSEMBLY, 2860-3107

Includes pivot body, pivot post and bottom pivot plate. For overhead concealed, center pivoted installations. Includes; 2860-107, 2860-110 and 2860-117.



PIVOT BODY, 2860-107

Bottom pivot body for center pivoted installations.

PIVOT POST, 2860-110

Connects pivot body to bottom pivot plate for center pivoted installations.

BOTTOM PIVOT PLATE, 2860-117

Applied to floor for center pivoted installations.

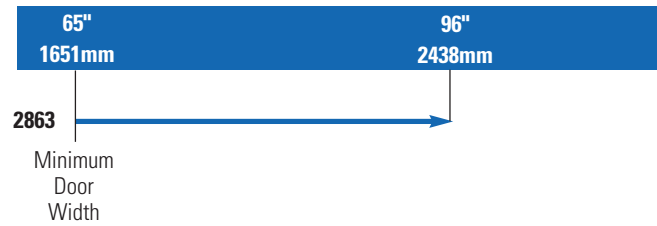
LCN 2860 SERIES

TABLE OF SIZES

→ Indicates recommended range of door width for operator.
 Note: For all Senior Swing Series

Independent Pair – Width per leaf 32 1/2" minimum to 48" maximum

DOOR WIDTH



HOW-TO-ORDER 2860 SERIES OPERATORS

1. SELECT INSTALLATION TYPE

- 2863

2. ARMS

- Standard 3 3/4" (Offset pivoted) Arm (3077OP)
 Standard 2 3/4" (Center pivoted) Arm (3077CP)
 Standard 3 3/4" (Center pivoted) Arm (3077CP)

3. SPECIFY FINISH.

- Standard Anodized Finish _____
 Aluminum or Dark Bronze

Operator will be shipped with:

- STANDARD MOTOR GEARBOX (SF) (1 LH & 1 RH)
 - STANDARD CONTROL BOX (SC) (2 ea)
 - 72" HEADER (72HL)
 - 2 3/4" PIVOT POINT
 - WOOD and MACHINE SCREW PACK
- Unless options listed below are selected.*

OPERATOR OPTIONS

HEADER

- HL__ (Specify length 65" to 98")

STOPS*

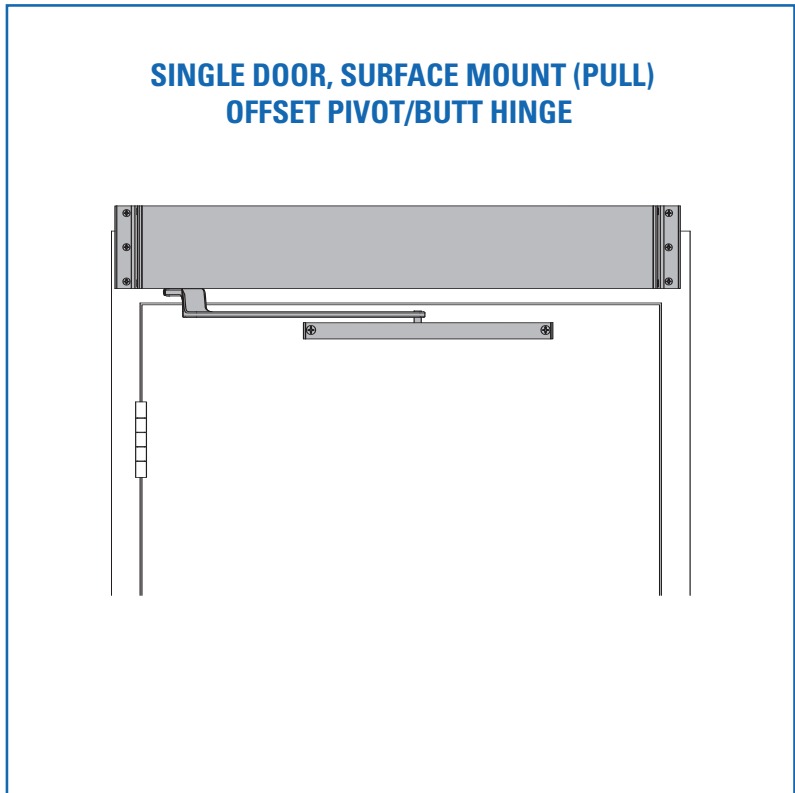
- Pair Positive Mechanical Stop (POS)
 Pair Panic Breakaway Stop (BKY)

**Available with Center Pivoted installations only.*

SPECIAL TEMPLATE

- ST-_____

LCN 9530 SERIES

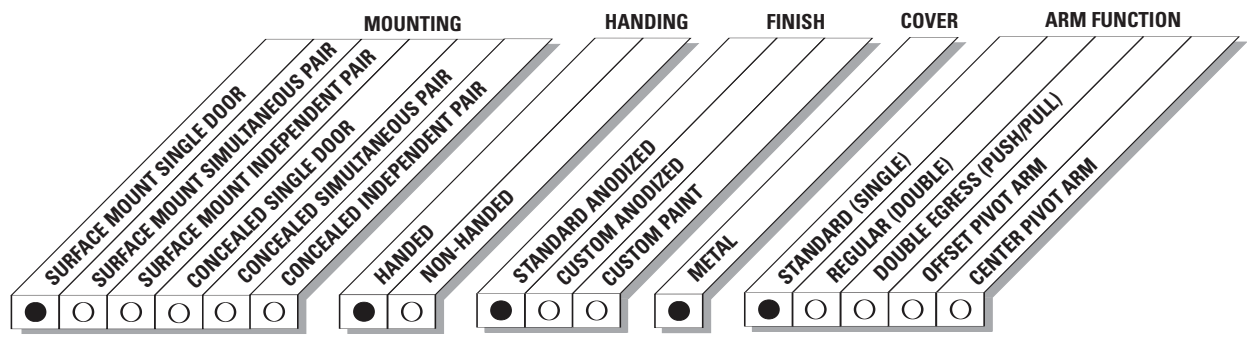


The 9530 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

- ▶ **Push 'N Go permits non-switch activation**
- ▶ **Power Boost provides additional latching force**
- ▶ **Electromechanical unit with microprocessor control**
- ▶ **Digital keypad for easy setup**
- ▶ **Meets International Building Code requirements and ANSI A156.19**
- ▶ **UL approved for fire doors**

- ▶ 9530 series operator is shipped with motor gearbox, control box, standard arm, header, and mounting hardware. Actuators available separately, see pages 121.
- ▶ Single door, surface mounted.
- ▶ Meets ADA requirements (power mode only).
- ▶ Handed product.
- ▶ 36" header length is standard. Specify length 33" to 49" max.
- ▶ Double door header available up to 98", specify other length 49" to 98" max. Consult factory regarding this option.
- ▶ Adjustable hold open period of 1 to 32 seconds in automatic or manual mode.

9530 Series is fully compliant with UL 325 & UL 1998 and meets the provisions of ANSI A156.19. The 9530 Series is UL listed for fire-rated applications. The 9530 Series also meets the provisions of the Americans with Disabilities Act.

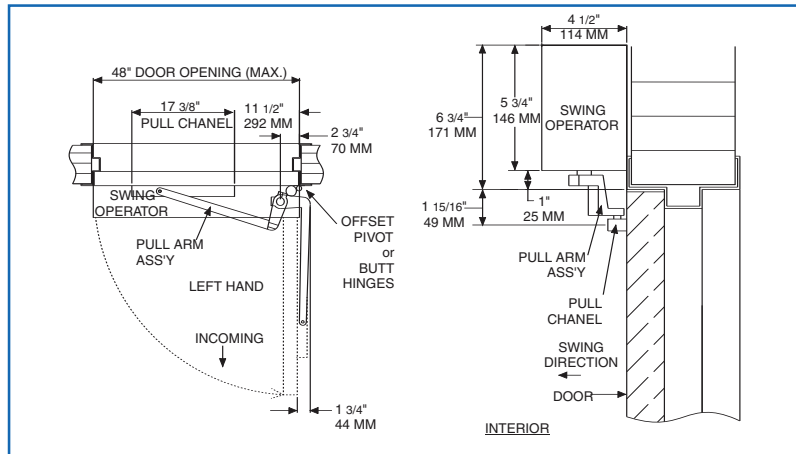


● AVAILABLE
○ NOT AVAILABLE

LCN 9530 SERIES

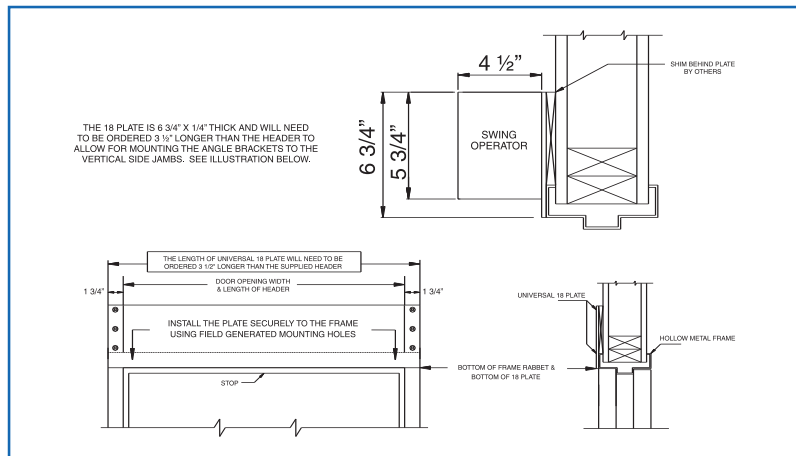
MOUNTING DETAILS

TOP JAMB SINGLE DOOR (OFFSET PIVOT/BUTT HINGE, CENTER PIVOT, PULL) MOUNTING



HOLLOW METAL FRAME

Suggested Installation



MAXIMUM OPENING

Template allows 90 degree power opening and 90 degree manual opening.

- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Reveal** should not exceed 4" (102 mm).
- ▶ **Head Frame** minimum 1 3/4" (44 mm). Face frame 6 3/4" (171 mm) total operator clearance.
- ▶ **Top Rail** minimum 2 3/4" (70 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

Special Templates

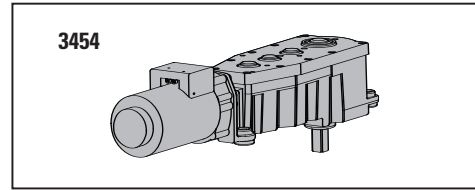
Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

LCN 9530 SERIES

MOTOR GEARBOX

MOTOR GEARBOX (STANDARD FORCE) – SENIOR SWING, 9530-3454

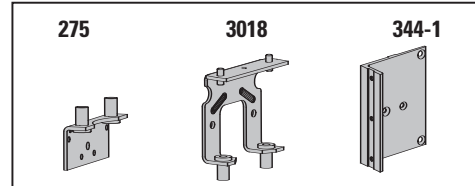
Driving mechanism for operator. Provides 15lbs opening force. Handed.



MOUNTING BRACKET

MOUNTING BRACKET – 2 3/4", 9530-275

Motor gearbox mounting bracket for 2 3/4" offset pivot or butt hinge installations. Front bracket.

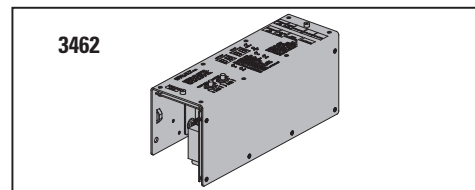


REAR MOUNT BRACKET, 9530-3018

Motor gearbox mounting bracket. Rear bracket.

ANGLED BRACKET, 9530-334-1

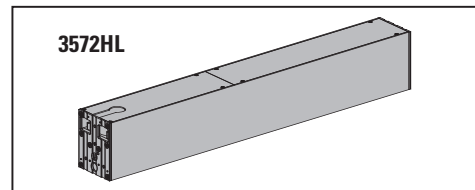
Mounting bracket for surface applications.



CONTROL BOXES

CONTROL BOX – SENIOR SWING, 9530-3462

Electronic controlling device for Senior Swing.



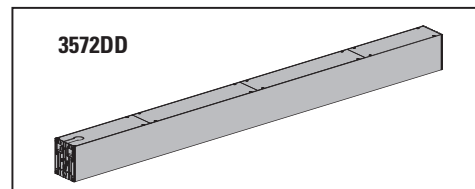
HEADERS

Header, 9530-3572HL

Standard, mounting header. Single door, single operator. Specify length 30" to 49" maximum.

Header, 9530-3572DD

Standard, mounting header. Double door, single operator. Specify length 49" to 98" maximum.



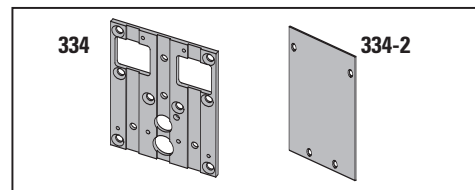
END CAPS

HEADER END CAPS, 9530-334

End cap with openings for wiring.

END DRESS PLATE, 9530-334-2

Metal finish end cap.



LCN 9530 SERIES

ARMS

STANDARD ARM ASSEMBLY, 9530-3077PLCM

Handed arm.

STANDARD ARM, 9530-3077T

Handed arm. Track roller not included.

TRACKS

TRACK 9530-3038

Standard non-handed track.

TRACK END CAP 9530-73

Black plastic end caps.

ROLLER, 9530-3034

Quiet low friction roller assembly.

INSTALLATION ACCESSORIES

SPINDLE PLATE – 2 3/4", 9530-11A

Hides bottom of motor gearbox. Completes header box. Cutout allows for motor gearbox shaft. For 2 3/4" offset pivot or butt hinge installations.

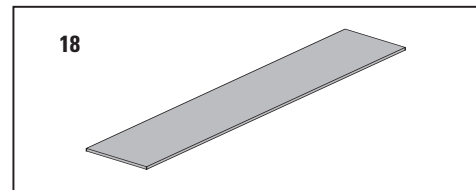
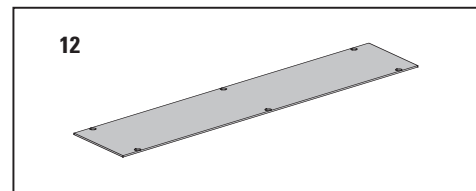
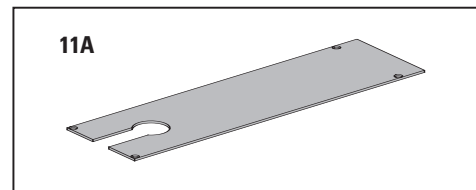
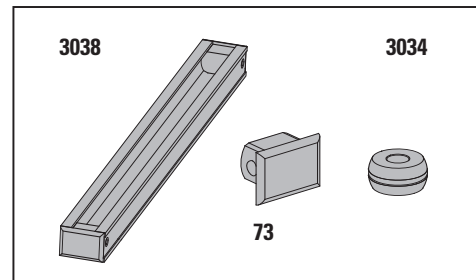
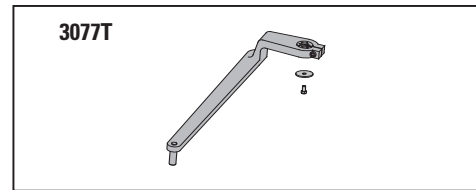
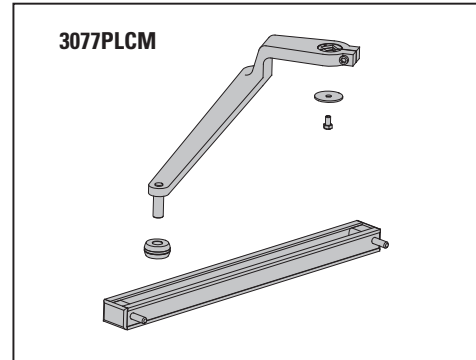
FILLER PLATE BLANK, 9530-12

Completes length of header box. (Specify Length)

MOUNTING PLATE, 9530-18

Optional mounting plate for standard hollow metal door frames. Specify length 33" to 98" maximum.

NOTE: The length of a universal 18 plate will need to be ordered 3 1/2" longer than the supplied header.

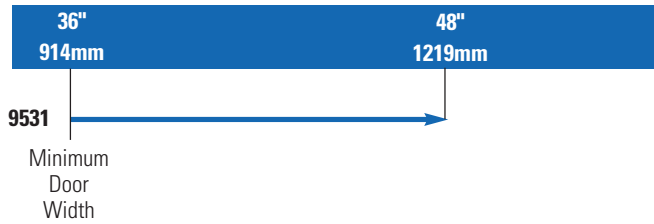


LCN 9530 SERIES

TABLE OF SIZES

→ Indicates recommended range of door width for operator.
Note: For all Senior Swing Series
Single Door - Width per leaf 36" minimum, 48" maximum

DOOR WIDTH



HOW-TO-ORDER 9530 SERIES OPERATORS

1. SPECIFY HAND

- RH
- LH

2. SPECIFY FINISH.

- Standard Anodized Finish _____
Aluminum or Dark Bronze

Operator will be shipped with:

- STANDARD MOTOR GEARBOX (SF)
 - STANDARD CONTROL BOX (SC)
 - 36" HEADER (36HL)
 - STANDARD ARM (3077T)
 - 2 3/4" PIVOT POINT
 - STANDARD TRACK w/TRACK ROLLER
 - MACHINE SCREW PACK
- Unless options listed below are selected.

OPERATOR OPTIONS

HEADER

- HL __ (Specify length 36" to 49")
- DD__ (Specify length 49" to 98")

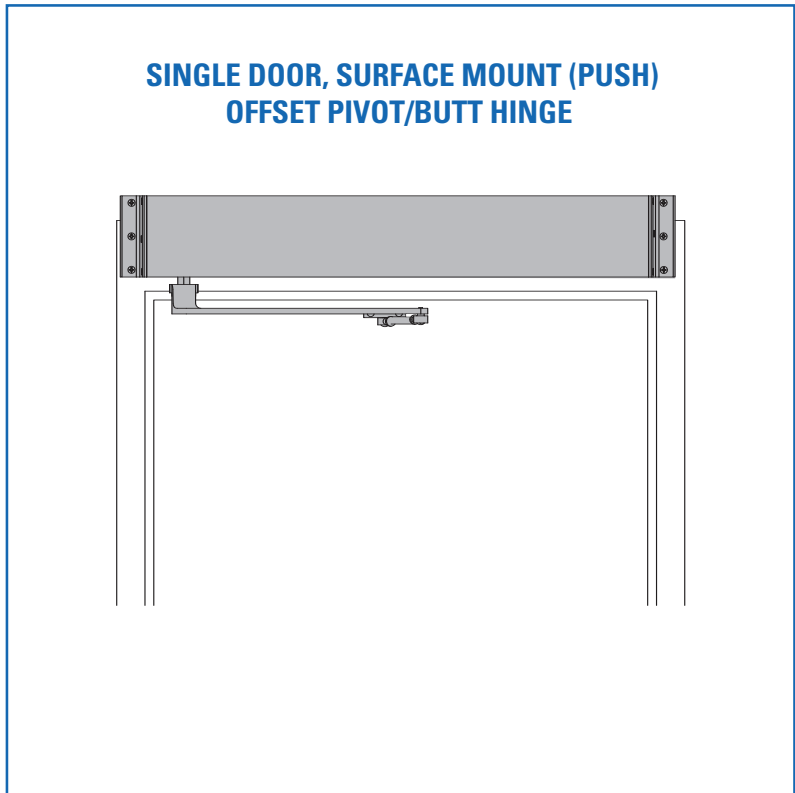
MOUNTING PLATE

- Plate, ____ (Specify Length 30" to 98")

SPECIAL TEMPLATE

- ST-_____

LCN 9540 SERIES



The 9540 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

- ▶ **Push 'N Go permits non-switch activation**
- ▶ **Power Boost provides additional latching force**
- ▶ **Electromechanical unit with microprocessor control**
- ▶ **Digital keypad for easy setup**
- ▶ **Meets International Building Code requirements and ANSI A156.19**
- ▶ **UL approved for fire doors**

- ▶ 9540 series operator is shipped with motor gearbox, control box, regular arm, header, and mounting hardware. Actuators available separately, see page 121.
- ▶ Single door, surface mounted.
- ▶ Meets ADA requirements (power mode only).
- ▶ Handed product.
- ▶ 36" header length is standard. Specify length 33" to 49" max.
- ▶ Double door header available up to 98", specify other length 49" to 98" max. Consult factory regarding this option.
- ▶ Adjustable hold open period of 1 to 32 seconds in automatic or manual mode.

9540 Series is fully compliant with UL 325 & UL 1998 and meets the provisions of ANSI A156.19. The 9540 Series is UL listed for fire-rated applications. The 9540 Series also meets the provisions of the Americans with Disabilities Act.

MOUNTING			HANDING			FINISH			COVER			ARM FUNCTION		
●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

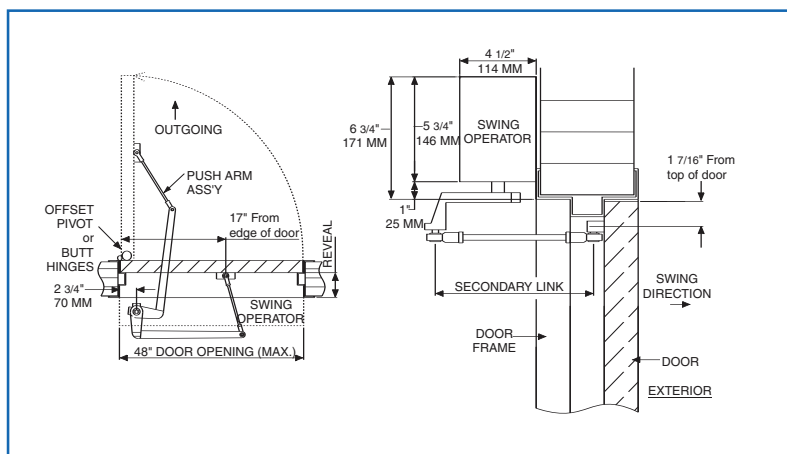
● AVAILABLE
○ NOT AVAILABLE

LCN 9540 SERIES

MOUNTING DETAILS

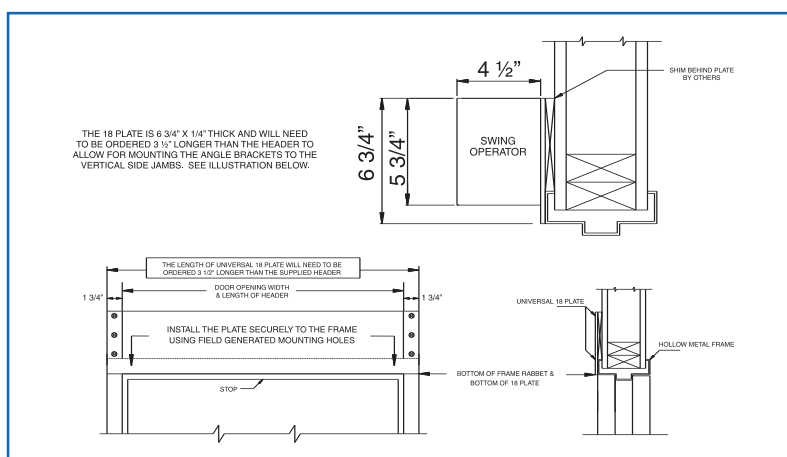
TOP JAMB SINGLE DOOR (OFFSET PIVOT/BUTT HINGE, CENTER PIVOT, PUSH) MOUNT

Consult factory for all balance door installations.



HOLLOW METAL FRAME

Suggested Installation



MAXIMUM OPENING

Template allows 90 degree power opening and 90 degree manual opening.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

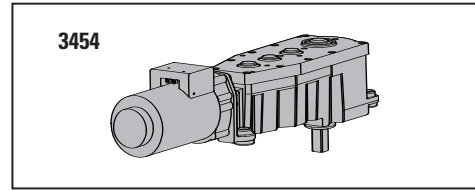
- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Reveal** for push installations should not exceed 10" (254 mm) for REGULAR ARM and 20" (508 mm) for LONG ARM.
- ▶ **Head Frame** minimum 1 3/4" (44 mm). Face frame 6 3/4" (171 mm) total operator clearance.
- ▶ **Top Rail** minimum 2 3/4" (70 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

LCN 9540 SERIES

MOTOR GEARBOX

MOTOR GEARBOX (STANDARD FORCE) – SENIOR SWING, 9540-3454

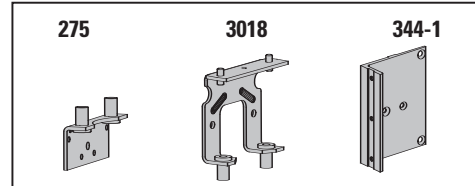
Driving mechanism for operator. Provides 15lbs opening force. Handed.



MOUNTING BRACKET

MOUNTING BRACKET – 2 3/4", 9540-275

Motor gearbox mounting bracket for 2 3/4" offset pivot or butt hinge installations. Front bracket.

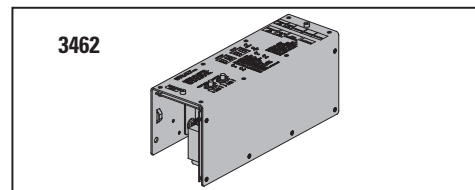


REAR MOUNT BRACKET, 9540-3018

Motor gearbox mounting bracket. Rear bracket.

ANGLED BRACKET, 9540-334-1

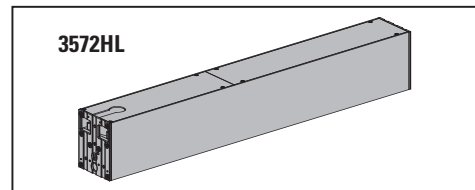
Mounting bracket for surface applications.



CONTROL BOXES

CONTROL BOX – SENIOR SWING, 9540-3462

Electronic controlling device for Senior Swing.



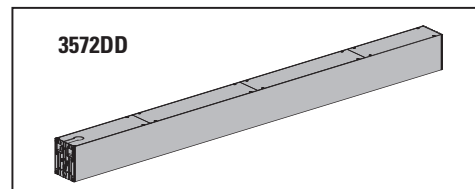
HEADERS

Header, 9540-3572HL

Standard, mounting header. Single door, single operator. Specify length 30" to 49" maximum.

Header, 9540-3572DD

Standard, mounting header. Double door, single operator. Specify length 49" to 98" maximum.



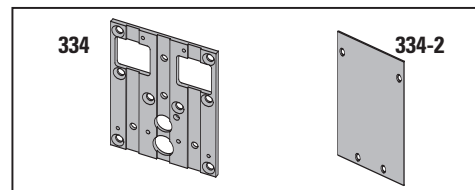
END CAPS

HEADER END CAPS, 9540-334

End cap with openings for wiring.

END DRESS PLATE, 9540-334-2

Metal finish end cap.



LCN 9540 SERIES

ARMS

REGULAR ARM ASSEMBLY, 9540-3077

Handed arm.

REGULAR LONG ARM ASSEMBLY, 9540-3077L

Handed arm.

MAIN ARM, 9540-77

Handed arm attaches to motor gearbox.

LINKAGE ASSEMBLY – 15", 9540-79

Threaded rod attaches to door. Extends from main arm.

LINKAGE ASSEMBLY – 32", 9540-79LR

Threaded long rod attaches to door. Extends from main arm. Used for reveal 10" to 20".

INSTALLATION ACCESSORIES

SPINDLE PLATE – 2 3/4", 9540-11A

Hides bottom of motor gearbox. Completes header box. Cutout allows for motor gearbox shaft. For 2 3/4" offset pivot or butt hinge installations.

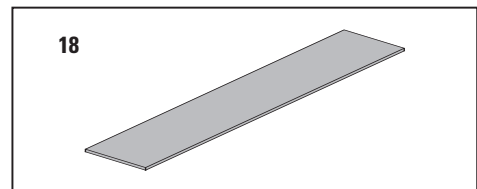
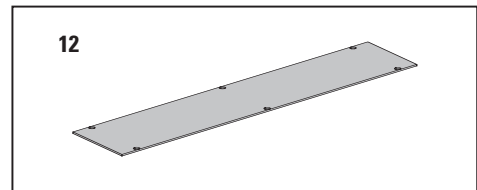
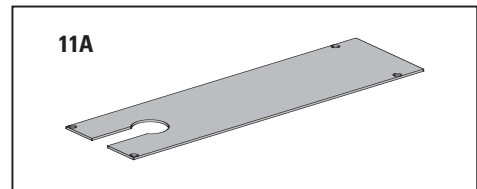
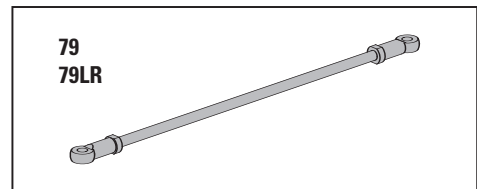
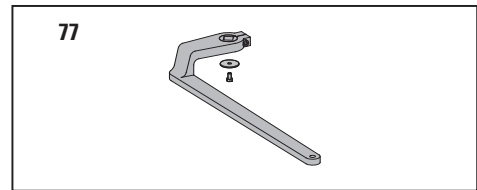
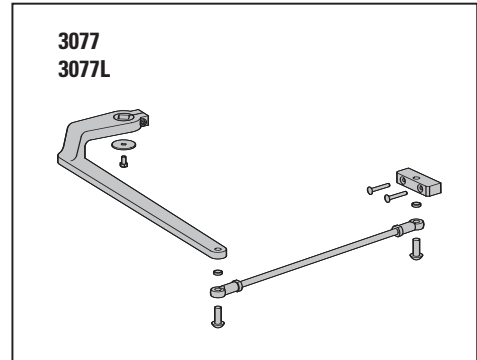
FILLER PLATE BLANK, 9540-12

Completes length of header box. (Specify Length)

MOUNTING PLATE, 9540-18

Optional mounting plate for standard hollow metal door frames. Specify length 33" to 98" maximum.

NOTE: The length of a universal 18 plate will need to be ordered 3 1/2" longer than the supplied header.

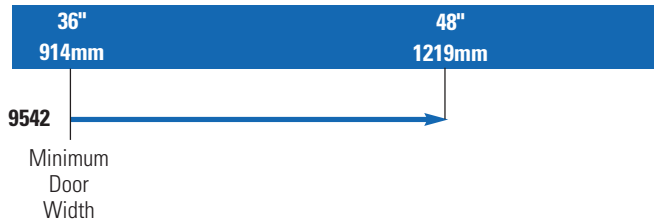


LCN 9540 SERIES

TABLE OF SIZES

→ Indicates recommended range of door width for operator.
Note: For all Senior Swing Series
Single Door - Width per leaf 36" minimum, 48" maximum

DOOR WIDTH



HOW-TO-ORDER 9540 SERIES OPERATORS

1. SPECIFY HAND

- RH
- LH

2. SPECIFY FINISH.

- Standard Anodized Finish _____
Aluminum or Dark Bronze

Operator will be shipped with:

- STANDARD MOTOR GEARBOX (SF)
- STANDARD CONTROL BOX (SC)
- 36" HEADER (36HL)
- REGULAR ARM (3077)
- 2 3/4" PIVOT POINT
- WOOD and MACHINE SCREW PACK

Unless options listed below are selected.

OPERATOR OPTIONS

HEADER

- HL__ (Specify length 36" to 49")
- DD__ (Specify length 49" to 98")

MOUNTING PLATE

- Plate, ____ (Specify Length 30" to 98")

ARM

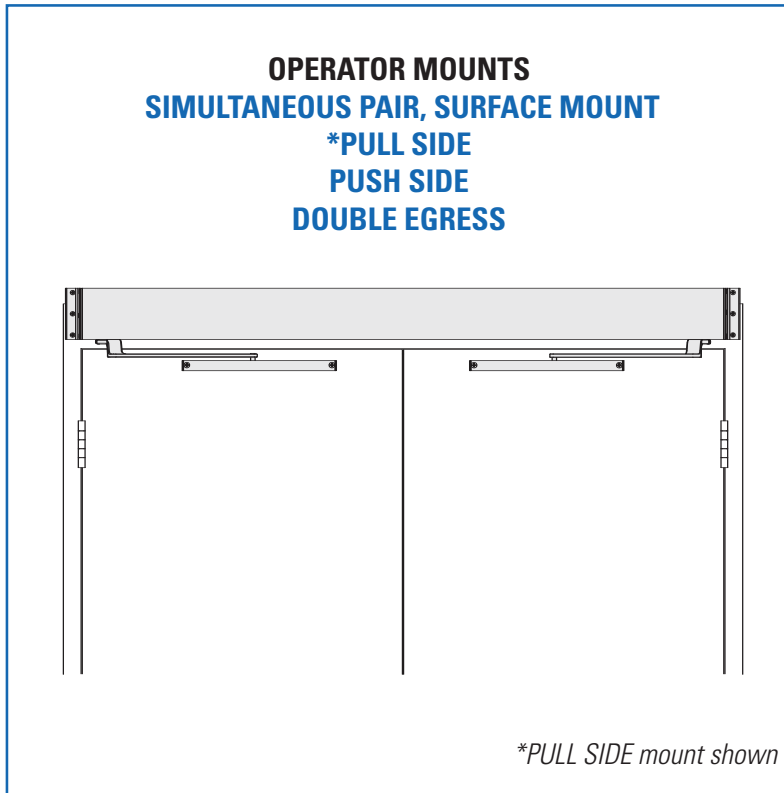
- Long Arm (3077L)

FINISH

SPECIAL TEMPLATE

- ST-_____

LCN 9550 SERIES



The 9550 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

- ▶ **Push 'N Go permits non-switch activation**
- ▶ **Power Boost provides additional latching force**
- ▶ **Electromechanical unit with microprocessor control**
- ▶ **Digital keypad for easy setup**
- ▶ **Meets International Building Code requirements and ANSI A156.19**
- ▶ **UL approved for fire doors**

- ▶ 9550 series operator is shipped with motor gearboxes, control box, arms, header, and mounting hardware. Actuators available separately, see pages 121.
- ▶ Simultaneous pair, surface mounted.
- ▶ Meets ADA requirements (power mode only).
- ▶ Handed product.
- ▶ Pull, Push or Double Egress applications available.
- ▶ 72" header length is standard. Specify other length 60" to 98". Consult factory regarding this option.
- ▶ Adjustable hold open period of 1 to 32 seconds in automatic or manual mode.

9550 Series is fully compliant with UL 325 & UL 1998 and meets the provisions of ANSI A156.19. The 9550 Series is UL listed for fire-rated applications. The 9550 Series also meets the provisions of the Americans with Disabilities Act.

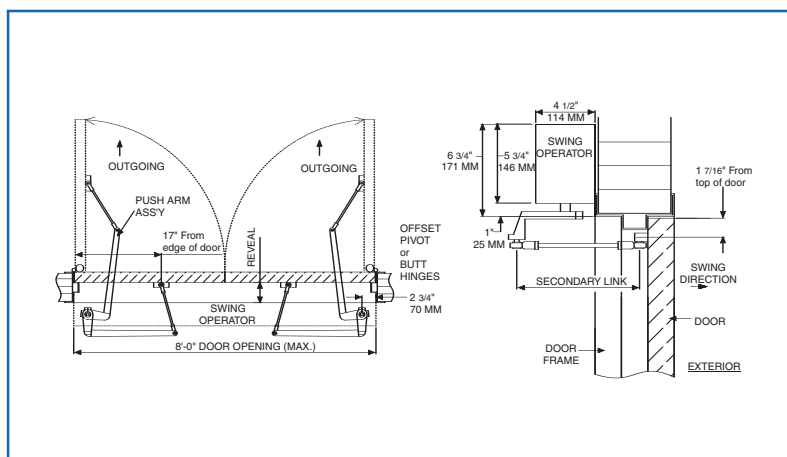
MOUNTING						HANDING		FINISH		COVER		ARM FUNCTION				
SURFACE MOUNT SINGLE DOOR	SURFACE MOUNT SIMULTANEOUS PAIR	SURFACE MOUNT INDEPENDENT PAIR	CONCEALED SINGLE DOOR	CONCEALED SIMULTANEOUS PAIR	CONCEALED INDEPENDENT PAIR	HANDED	NON-HANDED	STANDARD ANODIZED	CUSTOM ANODIZED	CUSTOM PAINT	METAL	STANDARD (SINGLE)	REGULAR (DOUBLE)	DOUBLE EGRESS (PUSH/PULL)	OFFSET PIVOT ARM	CENTER PIVOT ARM
○	●	○	○	○	○	●	○	●	○	○	○	●	●	●	○	○

● AVAILABLE
○ NOT AVAILABLE

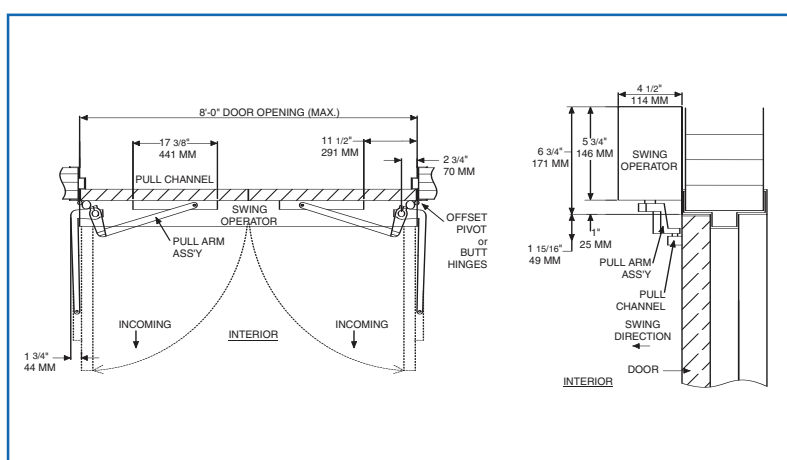
LCN 9550 SERIES

MOUNTING DETAILS

TOP JAMB SIMULTANEOUS PAIR (OFFSET PIVOT/BUTT HINGE, CENTER PIVOT, PUSH) MOUNTING



TOP JAMB SIMULTANEOUS PAIR (OFFSET PIVOT/BUTT HINGE, CENTER PIVOT, PULL) MOUNTING



MAXIMUM OPENING

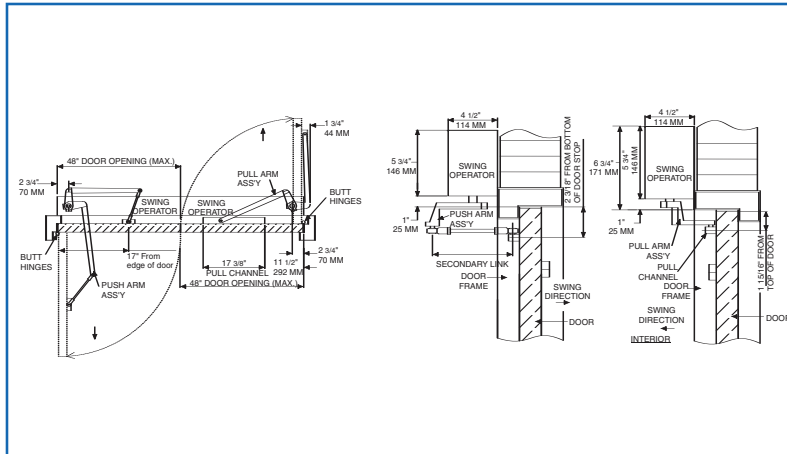
Template allows 90 degree power opening and 90 degree manual opening.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

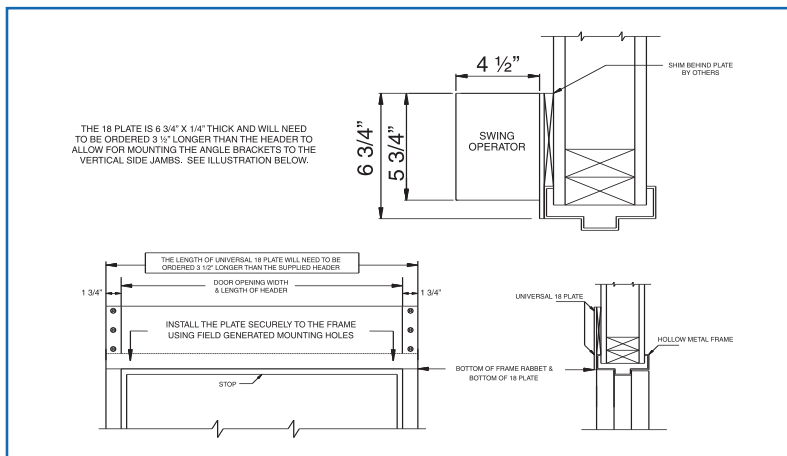
- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Reveal for push** installations should not exceed 10" (254 mm) for REGULAR ARM and 20" (508 mm) for LONG ARM.
- ▶ **Reveal for pull** installations should not exceed 4" (102 mm).
- ▶ **Reveal for double egress** installations should not exceed 4" (102 mm).
- ▶ **Head Frame** minimum 1 3/4" (44 mm). Face frame 6 3/4" (171 mm) total operator clearance.
- ▶ **Top Rail** minimum 2 3/4" (70 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

LCN 9550 SERIES



TOP JAMB SIMULTANEOUS PAIR (RH DOUBLE EGRESS) MOUNTING

Consult factory for all balance door installations.



HOLLOW METAL FRAME

Suggested Installation

- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Reveal for push** installations should not exceed 10" (254 mm) for REGULAR ARM and 20" (508 mm) for LONG ARM.
- ▶ **Reveal for pull** installations should not exceed 4" (102 mm).
- ▶ **Reveal for double egress** installations should not exceed 4" (102 mm).
- ▶ **Head Frame** minimum 1 3/4" (44 mm). Face frame 6 3/4" (171 mm) total operator clearance.
- ▶ **Top Rail** minimum 2 3/4" (70 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

MAXIMUM OPENING

Template allows 90 degree power opening and 90 degree manual opening.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

LCN 9550 SERIES

MOTOR GEARBOX

MOTOR GEARBOX (STANDARD FORCE)

– SENIOR SWING, 9550-3454

Driving mechanism for operator. Provides 15lbs opening force. Handed.

MOUNTING BRACKETS

MOUNTING BRACKET – 2 3/4", 9550-275

Motor gearbox mounting bracket for 2 3/4" offset pivot or butt hinge installations. Front bracket.

REAR MOUNT BRACKET, 9550-3018

Motor gearbox mounting bracket. Rear bracket.

ANGLED BRACKET, 9550-334-1

Mounting bracket for surface applications.

CONTROL BOXES

CONTROL BOX – SENIOR SWING, 9550-3462

Electronic controlling device for Senior Swing.

COMPANION CABLE, 9550-982

Cable that allows one control box to run two motor gear boxes. Companion cable. For use with Senior Swing.

HEADERS

HEADER, 9550-3572HL

Standard, mounting header. Pair door, two operators. Specify length 60" to 98" maximum.

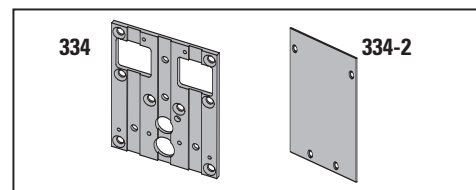
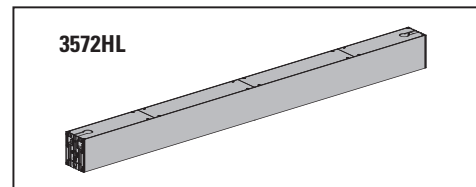
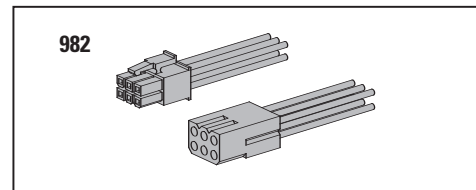
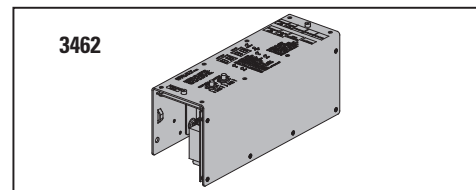
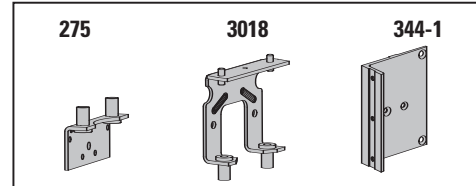
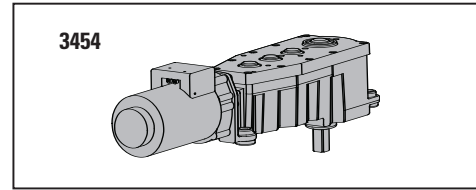
END CAPS

HEADER ENDCAPS, 9550-334

End cap with openings for wiring.

END DRESS PLATE, 9550-334-2

Metal finish end cap.



LCN 9550 SERIES

ARMS

STANDARD ARM ASSEMBLY, 9550-3077PLCM

Handed arm.

REGULAR ARM ASSEMBLY, 9550-3077

Handed arm.

REGULAR LONG ARM ASSEMBLY, 9550-3077L

Handed arm.

STANDARD ARM, 9550-3077T

Handed arm. Track roller not included.

MAIN ARM, 9550 -77

Handed arm attaches to motor gearbox

LINKAGE ASSEMBLY – 15", 9550-79

Threaded rod attaches to door. Extends from main arm.

LINKAGE ASSEMBLY – 32", 9550-79LR

Threaded long rod attaches to door. Extends from main arm.

Used for reveal 10" to 20".

TRACKS

TRACK 9550-3038

Standard non-handed track.

TRACK END CAP 9550-73

Black plastic end caps.

ROLLER, 9550-3034

Quiet low friction roller assembly.

INSTALLATION ACCESSORIES

SPINDLE PLATE – 2 3/4", 9550-11A

Hides bottom of motor gearbox. Completes header box. Cutout allows for motor gearbox shaft. For 2 3/4" offset pivot or butt hinge installations.

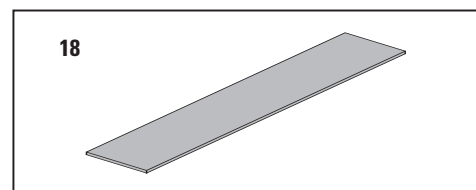
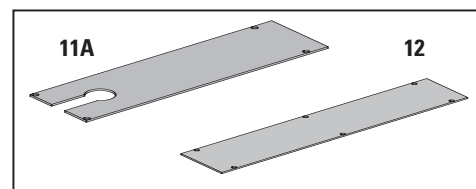
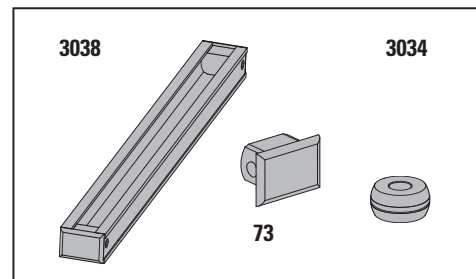
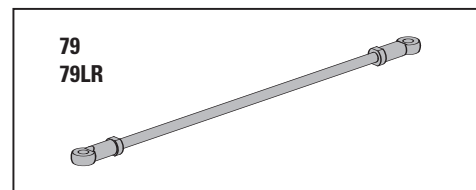
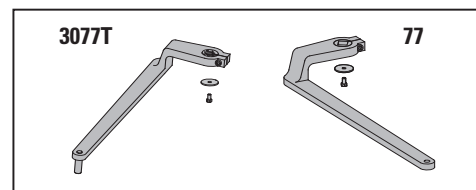
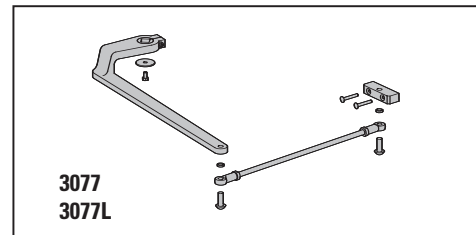
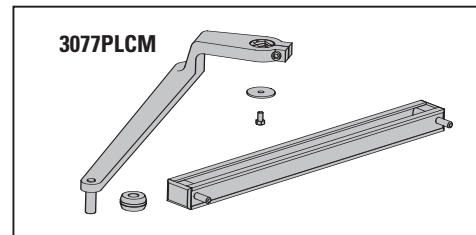
FILLER PLATE BLANK, 9550-12

Completes length of header box. (Specify Length)

MOUNTING PLATE, 9550-18

Optional mounting plate for standard hollow metal door frames. Specify length 33" to 98" maximum.

NOTE: The length of a universal 18 plate will need to be ordered 3 1/2" longer than the supplied header.

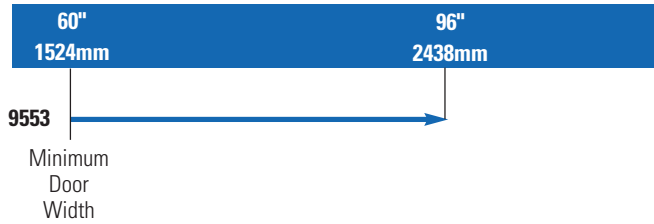


LCN 9550 SERIES

TABLE OF SIZES

→ Indicates recommended range of door width for operator.
 Note: For All Senior Swing Series
 Simultaneous Pair – Width per leaf 30" minimum to 48" maximum

DOOR WIDTH



HOW-TO-ORDER 9550 SERIES OPERATORS

1. SPECIFY HAND

- RH
- LH

2. SPECIFY FINISH.

- Standard Anodized Finish _____
Aluminum or Dark Bronze

Operator will be shipped with:

- STANDARD MOTOR GEARBOX (SF) (2 ea)
- STANDARD CONTROL BOX (SC)
- 72" METAL COVER (72HL)
- REGULAR ARM (2 ea)
- 2 3/4" PIVOT POINT
- MACHINE SCREW PACK

OPERATOR OPTIONS

HEADER

- HL__ (Specify length 60" to 98")

MOUNTING PLATE

- Plate, ____ (Specify Length 30" to 98")

ARM

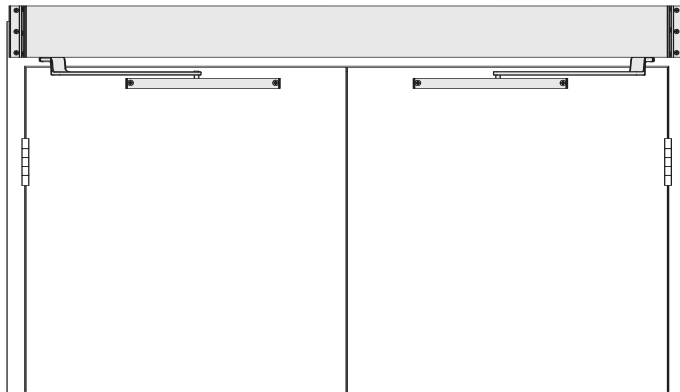
- Standard Arm (2 ea)
w/Standard Track (2 ea)
- Double Egress
Includes Standard Arm w/Track (1 ea)
& Regular Arm (1 ea)
- Long Arm (3077L)

SPECIAL TEMPLATE

- ST-_____

LCN 9560 SERIES

**OPERATOR MOUNTS
INDEPENDENT PAIR, SURFACE MOUNT
*PULL SIDE
PUSH SIDE
DOUBLE EGRESS**



*PULL SIDE mount shown

The 9560 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

- ▶ **Push 'N Go permits non-switch activation**
- ▶ **Power Boost provides additional latching force**
- ▶ **Electromechanical unit with microprocessor control**
- ▶ **Digital keypad for easy setup**
- ▶ **Meets International Building Code requirements and ANSI A156.19**
- ▶ **UL approved for fire doors**

- ▶ 9560 series operator is shipped with motor gearboxes, control boxes, arms, header, and mounting hardware. Actuators available separately, see page 121.
- ▶ Independent pair, surface mounted.
- ▶ Meets ADA requirements (power mode only).
- ▶ Handed product.
- ▶ Pull, Push or Double Egress applications available.
- ▶ 72" header length is standard. Specify other length 60" to 98". Consult factory regarding this option.
- ▶ Adjustable hold open period of 1 to 32 seconds in automatic or manual mode.

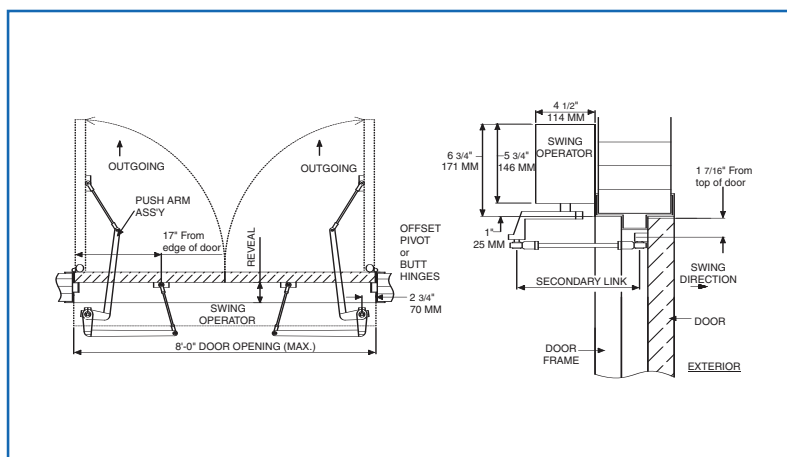
9560 Series is fully compliant with UL 325 & UL 1998 and meets the provisions of ANSI A156.19. The 9560 Series is UL listed for fire-rated applications. The 9560 Series also meets the provisions of the Americans with Disabilities Act.

MOUNTING						HANDING			FINISH	COVER		ARM FUNCTION		
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
SURFACE MOUNT SINGLE DOOR						HANDED			METAL	STANDARD (SINGLE)		STANDARD PIVOT ARM		
SURFACE MOUNT SIMULTANEOUS PAIR						NON-HANDED			STANDARD ANODIZED	REGULAR (DOUBLE)		OFFSET PIVOT ARM		
CONCEALED SINGLE DOOR									CUSTOM ANODIZED	DOUBLE EGRESS (DOUBLE)		CENTER PIVOT ARM		
CONCEALED SIMULTANEOUS PAIR									CUSTOM PAINT	DOUBLE EGRESS (PUSH/PULL)				
CONCEALED INDEPENDENT PAIR														

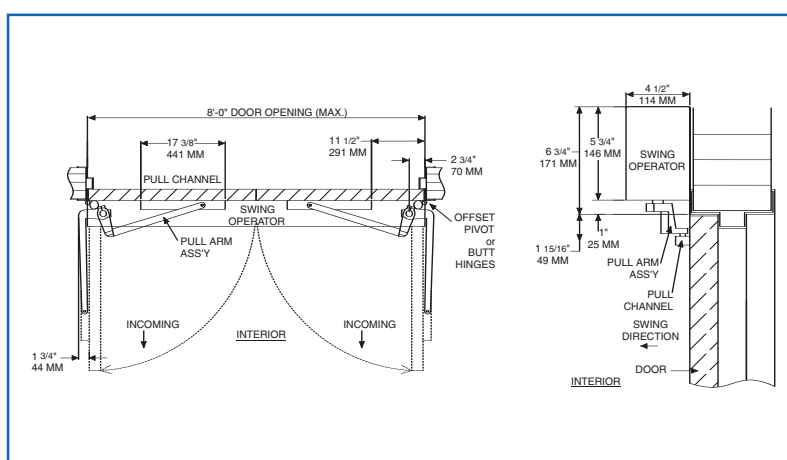
● AVAILABLE
○ NOT AVAILABLE

LCN 9560 SERIES

TOP JAMB INDEPENDENT PAIR (OFFSET PIVOT/BUTT HINGE, CENTER PIVOT, PUSH) MOUNTING



TOP JAMB INDEPENDENT PAIR (OFFSET PIVOT/BUTT HINGE, CENTER PIVOT, PULL) MOUNTING



MAXIMUM OPENING

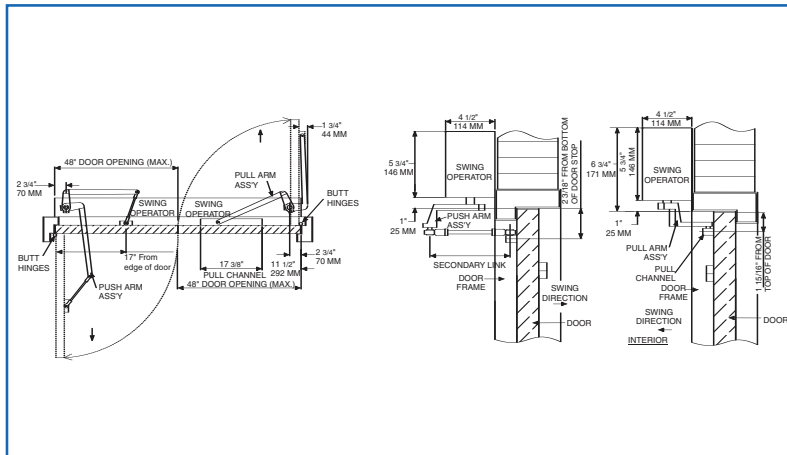
Template allows 90 degree power opening and 90 degree manual opening.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

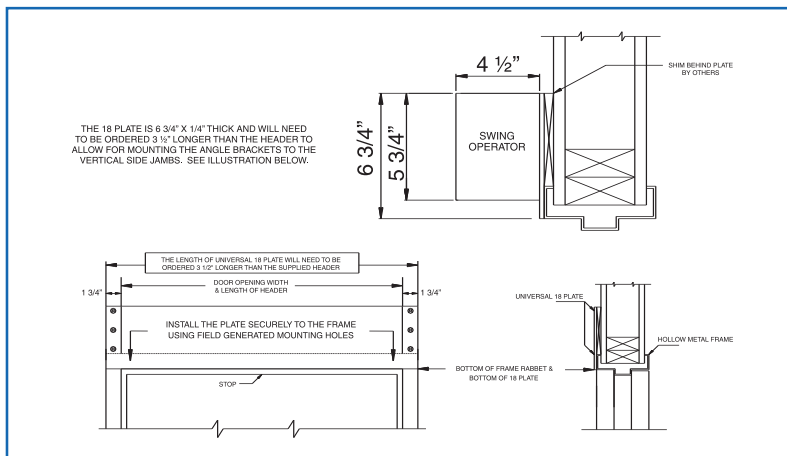
- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Reveal for push** installations should not exceed 10" (254 mm) for REGULAR ARM and 20" (508 mm) for LONG ARM.
- ▶ **Reveal for pull** installations should not exceed 4" (102 mm).
- ▶ **Reveal for double egress** installations should not exceed 4" (102 mm).
- ▶ **Head Frame** minimum 1 3/4" (44 mm). Face frame 6 3/4" (171 mm) total operator clearance.
- ▶ **Top Rail** minimum 2 3/4" (70 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

LCN 9560 SERIES



TOP JAMB INDEPENDENT PAIR (RH DOUBLE EGRESS) MOUNTING

Consult factory for all balance door installation.



HOLLOW METAL FRAME

Suggested Installation

- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Reveal for push** installations should not exceed 10" (254 mm) for REGULAR ARM and 20" (508 mm) for LONG ARM.
- ▶ **Reveal for pull** installations should not exceed 4" (102 mm).
- ▶ **Reveal for double egress** installations should not exceed 4" (102 mm).
- ▶ **Head Frame** minimum 1 3/4" (44 mm). Face frame 6 3/4" (171 mm) total operator clearance.
- ▶ **Top Rail** minimum 2 3/4" (70 mm).
- ▶ **Opening & Closing Time** are variable by adjustments to the electronic control box. Maximum hold open time adjustable up to approximately 32 seconds.
- ▶ **System Diagram** see "AUTOMATIC OPERATORS" section pages 52-54 for typical system wiring and page 55 for electrical data.
- ▶ Please consult your local SSC representative or LCN for assistance with specific installations and material requirements.

MAXIMUM OPENING

Template allows 90 degree power opening and 90 degree manual opening.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

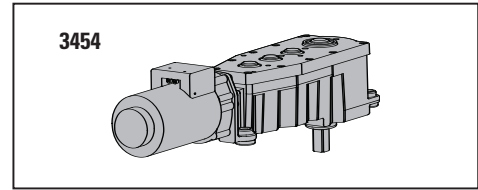
LCN 9560 SERIES

MOTOR GEARBOX

MOTOR GEARBOX (STANDARD FORCE)

–SENIOR SWING, 9560-3454

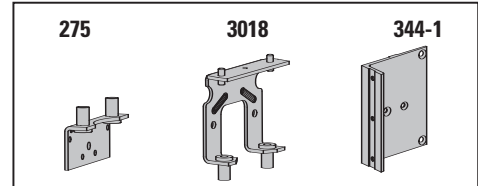
Driving mechanism for operator. Provides 15lbs opening force. Handed.



MOUNTING BRACKETS

MOUNTING BRACKET – 2 3/4", 9560-275

Motor gearbox mounting bracket for 2 3/4" offset pivot or butt hinge installations. Front bracket.

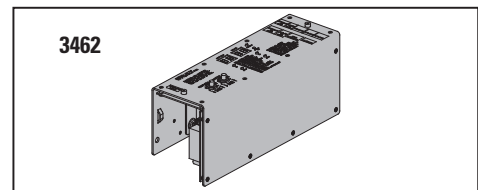


REAR MOUNT BRACKET, 9560-3018

Motor gearbox mounting bracket. Rear bracket.

ANGLED BRACKET, 9560-334-1

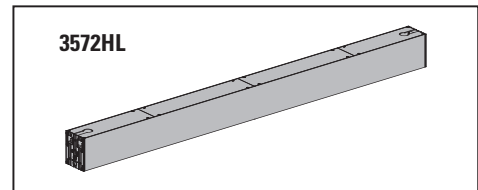
Mounting bracket for surface applications.



CONTROL BOXES

CONTROL BOX – SENIOR SWING, 9560-3462

Electronic controlling device for Senior Swing



HEADERS

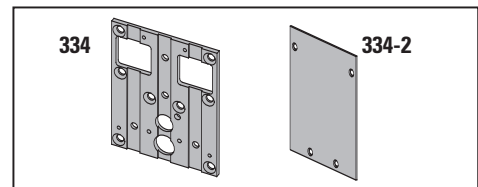
HEADER, 9560-3572HL

Standard, mounting header. Pair door, two operators. Specify length 60" to 98" maximum.

END CAPS

HEADER END CAPS, 9560-334

End cap with openings for wiring.



END DRESS PLATE, 9560-334-2

Metal finish end cap.

LCN 9560 SERIES

ARMS

STANDARD ARM ASSEMBLY, 9560-3077PLCM

Handed arm.

REGULAR ARM ASSEMBLY, 9560-3077

Handed arm.

REGULAR LONG ARM ASSEMBLY, 9560-3077L

Handed arm.

STANDARD ARM, 9560-3077T

Handed arm. Track roller not included.

MAIN ARM, 9560 -77

Handed arm attaches to motor gearbox

LINKAGE ASSEMBLY – 15", 9560-79

Threaded rod attaches to door. Extends from main arm.

LINKAGE ASSEMBLY – 32", 9560-79LR

Threaded long rod attaches to door. Extends from main arm.
Used for reveal 10" to 20".

TRACKS

TRACK 9560-3038

Standard non-handed track.

TRACK END CAP 9560-73

Black plastic end caps.

ROLLER, 9560-3034

Quiet low friction roller assembly.

INSTALLATION ACCESSORIES

SPINDLE PLATE – 2 3/4", 9560-11A

Hides bottom of motor gearbox. Completes header box. Cutout allows for motor gearbox shaft. For 2 3/4" offset pivot or butt hinge installations.

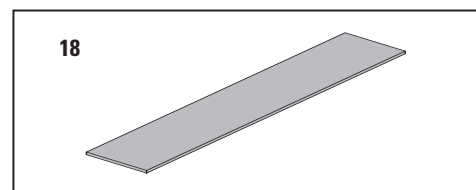
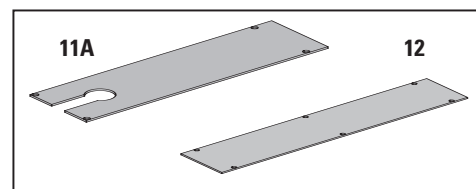
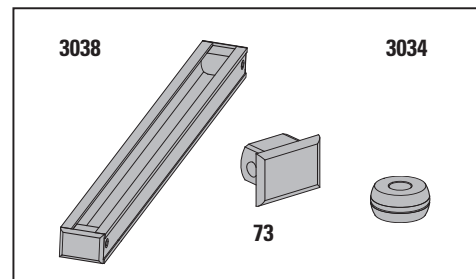
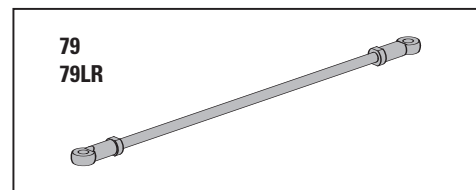
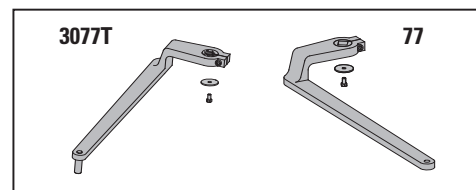
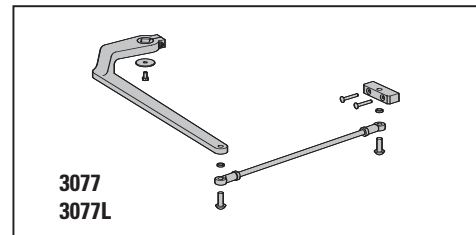
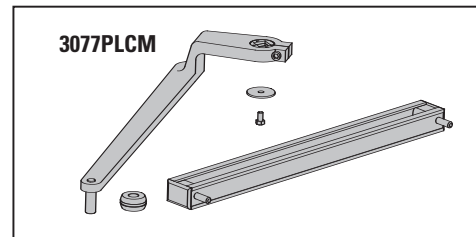
FILLER PLATE BLANK, 9560-12

Completes length of header box. (Specify Length)

MOUNTING PLATE, 9560-18

Optional mounting plate for standard hollow metal door frames. Specify length 33" to 98" maximum.

NOTE: The length of a universal 18 plate will need to be ordered 3 1/2" longer than the supplied header.



LCN 9560 SERIES

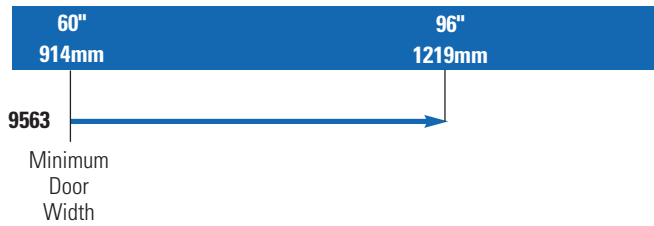
TABLE OF SIZES

→ Indicates recommended range of door width for operator.

Note: For all Senior Swing Series

Independent Pair – Width per leaf 30" minimum to 48" maximum

DOOR WIDTH



HOW-TO-ORDER 9560 SERIES OPERATORS

1. SPECIFY HAND

- RH
- LH

2. SPECIFY FINISH.

- Standard Anodized Finish _____
Aluminum or Dark Bronze

Operator will be shipped with:

- STANDARD MOTOR GEARBOX (SF) (2 ea)
 - STANDARD CONTROL BOX (SC) (2 ea)
 - 72" METAL COVER (72HL)
 - REGULAR ARM (2 ea)
 - 2 3/4" PIVOT POINT
 - MACHINE SCREW PACK
- Unless options listed below are selected.

OPERATOR OPTIONS

HEADER

- HL__ (Specify length 60" to 98")

MOUNTING PLATE

- Plate, ____ (Specify Length 30" to 98")

ARM

- Standard Arm (2 ea)
w/Standard Track (2 ea)
- Double Egress
Includes Standard Arm w/Track (1 ea)
& Regular Arm (1 ea)
- Long Arm (3077L)

SPECIAL TEMPLATE

- ST- _____