# 1500 Series
EMLock®

SDC's patented EMLock® design represents the pinnacle of magnetic lock evolution. The modular EMLock® assembly makes them easy to stock, install, upgrade and maintain.

SDC 1500 series EMLocks® include a lifetime warranty and are available in 650lbs, 1200lbs, and 1650lbs holding force. Compatible with any access control system, all EmLocks® are adaptable to virtually any application utilizing Top Jamb or Glass Door mounting kits. The epoxy-less design provides a superior appearance with a plated or anodized finish on all sides. The interlocking EZ mount assembly leaves hands free for wiring and securing of mounting screws. EMLocks® are UL Listed and ANSI Grade 1 compliant.

FEATURES

- Modular Design
- Modular Upgrade Kits
- Field Upgradeable without removing from the frame
- Uniform Design & Installation
- Identical Housing, Template & Accessories
- Quick Mount Assembly

STANDARD MOUNTING FASTENERS
Self Drilling & Tapping Sheet Metal Screws and 10/32 Machine Screws supplied for different application needs. Blind nuts and Tool are optional.

UPGRADE MODULES INCLUDE:
- Relock Delay Timer
- Magnetic Bond Sensor
- Door Status Sensors
- Anti-Tamper Switch
- Holding Force Upgrade
- Energy Saver Upgrade

MODULAR UPGRADE KITS

EZ-T-10 Timer Input Module
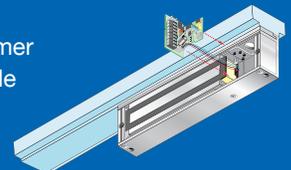
EZ-B-10 Magnetic Bond Sensor
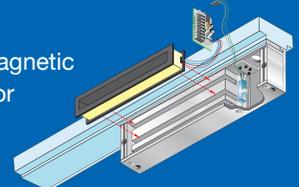
EZ-A Anti-Tamper Switch
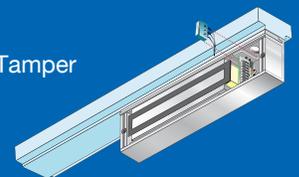
EZ-D-10 Door Position Sensor
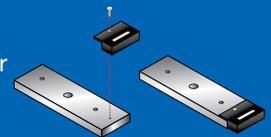
For complete details contact SDC to request the Modular Upgrade Kit datasheet or download from the SDC website: SDCsecurity.com/modularkits

1510 SERIES GRADE 1
1650 LB / 748 KG HOLDING FORCE

1570 SERIES GRADE 1
1200 LB / 544 KG HOLDING FORCE
3 WATTS ENERGY SAVER

1580 SERIES GRADE 1
650 LB / 295 KG HOLDING FORCE
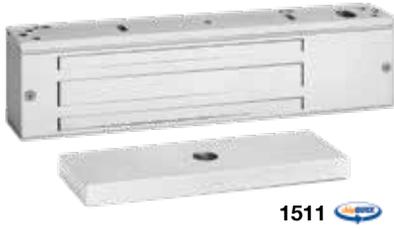
1511

1571
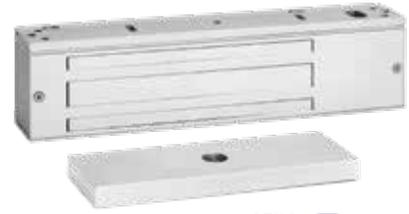
1581

1512

1572

1582

1513

1573

MODELS

1511 Single EMLock®
1512 Double EMLock®
1513 Single, split armature for pair of doors

1571 Single EMLock®
1572 Double EMLock®
1573 Single, split armature for pair of doors

1581 Single EMLock®
1582 Double EMLock®

SPECIFICATIONS

Voltage	12/24VDC Voltage Sensing Input
Single	350mA @ 24VDC; 670mA @ 12VDC 11" L x 2-3/4" H x 1-9/16" D
Double	700mA @ 24VDC; 1.34A @12VDC 22" L x 2-3/4" H x 1-9/16" D

SPECIFICATIONS

Voltage	12/24VDC Voltage Sensing Input
Single	125mA @ 24VDC; 250mA @ 12VDC 11"L x 2-3/4"H x 1-9/16"D
Double	250mA @ 24VDC; 500mA @ 12VDC 22" L x 2-3/4" H x 1-9/16" D

SPECIFICATIONS

Voltage	12/24VDC Voltage Sensing Input
Single	220mA @ 24VDC; 440mA @ 12VDC 8-3/4"L x 2-1/8"H x 1-1/4"D
Double	440mA @ 24VDC; 880mA @ 12VDC 17-1/2" L x 2-1/8" H x 1-1/4"D

LISTINGS & PERFORMANCE SPECIFICATIONS

UL Listed U.S. & Canada:
GWXT Auxiliary Locks
CVXJ Burglary Resistant Electrically Operate-Door Lock
UL10C: Position Positive Pressure Compliant

UBC: Classified in accordance with Uniform Building Code standard 7-2 "Fire Test for Door Assemblies"
ANSI/BHMA A156.23:
Grade 1, one million cycles
BHMA Certified

CSFM: California State Fire Marshal Listed 3774-0324:100
MEA: City of New York 61-95-E

⚙ HOW TO ORDER

1| SPECIFY MODEL

1510 Series

1511 Single EMLock®
1512 Double EMLock®
1513 Single, split armature for pair of doors

1570 Series

1571 Single EMLock®
1572 Double EMLock®
1573 Single, split armature for pair of doors

1580 Series

1581 Single EMLock®
1582 Double EMLock®

2| SPECIFY FINISH

Anodized Finishes

V Aluminum (standard)
Y Black anodized

Painted Finishes

C Brass powder coat
X Dark bronze powder coat

Plated Finishes (special order)

P Bright chrome
Q Dull chrome

3| SPECIFY FACTORY INSTALLED OPTIONS

D **Door Position Sensor:** Indicates door open and door closed. (Not available with 1513 and 1573) SPDT Dry, 250 mA @ 30VDC.

B **Magnetic Bond Sensor:** Indicates locked and unlocked, low holding power, tampering and obstruction between armature and magnetic core. (Not available with 1513 and 1573)

- 1510 & 1570 Series: SPDT Dry, 250 mA @ 30VDC.
- 1580 Series: SPST N.O., Dry, 250 mA @ 30VDC.

A **Anti-tamper Sensor:** Indicates access cover removal. SPDT Dry, 1 Amp @ 30VDC.

L **Bi-color Status LED Indicator:** Field selectable Red, Green, or Amber (requires additional wiring)

Indicates lock energized when wired to lock input.

Indicates de-energized/unlocked or "Enter/Go" when wired to optional timer module.

Indicates energized and de-energized or "Enter/Go" when wired to access control auxiliary output.

Indicates door is closed and locked and door is unlocked when wired to BA.

T **Adjustable Timer:** Built-in field adj. 0-30 sec. re-lock delay. Specify one for single or double EMLocks® (not available with 1580 series)

4| SPECIFY BRACKETS AND FILLER PLATES (OPTIONAL)

See pages 12-15 for Models and Specifications

🔩 ACCESSORIES

FIELD INSTALLED OPTION KITS

Ordered separately for field upgrade. For complete details contact SDC to request more information on Modular Upgrade Kits.
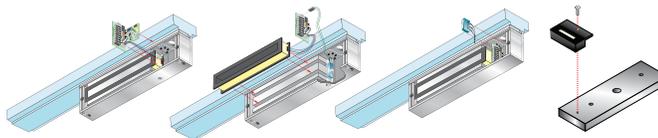
All available through *shipQUICK*

EZ-T-10 **Adjustable Timer Input Module:** Specify (1) for single or double EmLocks® (not available with **1580** series)

EZ-D-10 **1510, 1570 Door Position Sensor Module:** Specify (2) for double EMLocks® (not available with **1513** and **1573**)

EZ-D-80 **1580 Door Position Sensor Module:** Specify (2) for double EMLocks®

EZ-B-10 **1510, 1570 Magnetic Bond Sensor Module:** Specify (2) for double EMLocks® (Not available with **1513**, **1573**)

EZ-B-80 **1580 Magnetic Bond Sensor Module:** Specify (2) for double EMLocks®

EZ-A **Anti-Tamper Switch Module:** Indicates cover plate removal.

EZ-1510W **Holding Force Module:** Exchange a 1200lb wire coil (**1570 series**) with this 1650lb wire coil. Specify (2) for double EMLocks®

EZ-1570W **Energy Saver Module:** Save on power supply and long term energy costs by exchanging 8.4 Watt, 1650lb coil with 3 Watt, 1200lb holding force coil. Specify (2) for double EMLocks®

ACCESSORIES

TOP JAMB MOUNTING BRACKETS

MODELS

Kits for **1511**, **1512**, **1571**, **1572**
- **TJ1** Single
- **TJ2** Double

Kits for **1581**, **1582**
- **TJ81** Single
- **TJ82** Double

See below for available finishes

Adjustable
brackets
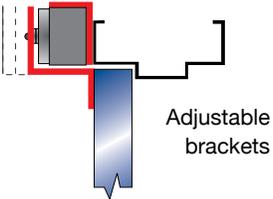
UNIVERSAL GLASS DOOR MOUNTING KIT

MODELS

Kit for **1511**, **1571**, **1581**
- **HDB1** Single

Kit for **1512**, **1572**, **1582**
- **HDB2** Double, 2 single kits

See below for available finishes

Adjustable
brackets for
glass thickness
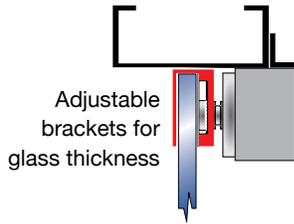
DOOR COORDINATOR LOCK MOUNTING KIT

MODELS

DC-1 Door coordinator mounting bracket for single models 1511 and 1571.

DC-2 Door coordinator mounting bracket for double models **1512** and **1572**.

DC-1

DC-2

SDC Door
Coordinator
Bracket

Door
Coordinator
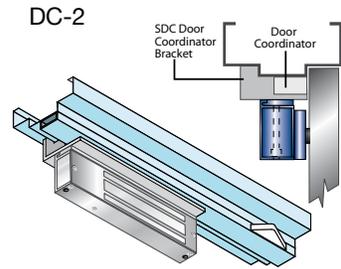
ARCHITECTURAL HOUSINGS

Specify housings with your EMLocks®. Example**:** 1511V-30; 1512V-60

FEATURES

Vertical Housings **-** Side jamb mount, providing 2400 or 3300 lbs of holding force.

MODELS

Vertical Housing

1572VV82 Vertical Housing for 1572 EMLock, 82" length, for 84" opening - INCLUDES 1572 lock

1512VV82 Vertical Housing for 1512 EMLock, 82" length, for 84" opening - INCLUDES 1512 lock

CV Custom length.
Specify exact length

FINISH

Anodized Finishes	Painted Finishes	Plated Finishes (special order)
V Aluminum (standard)	**C** Brass powder coat	**P** Bright chrome
Y Black anodized	**X** Dark bronze powder coat	**Q** Dull chrome

ACCESSORIES

PRE-DRILLED & TAPPED HEADER BRACKET

Machined Wire Chase

Holes Pre-Drilled & Countersunk For Frame Mounting

Pre-Drilled and Tapped Lock Mounting Holes

APPLICATION

Used in lieu of angle brackets, the Universal Header Bracket provides a faster mounting solution, saving time and labor costs for several EmLock models. Reduce potential for mis-sized and misaligned mounting holes, broken taps, removal of broken taps. Combined with interlocking. E-Z mount assembly, save up to a half days labor with the installation of 12 locks.

FEATURES

- Solid 1" bar provides higher security and superior aesthetics.
- Machined wire chase provides concealed and secure wiring
- Multiple pre-drilled and tapped mounting holes to accommodate the use of several different locks on either 4" or 4.5" aluminum frames

FINISH

V	628 Aluminum (standard)	**P**	625 Bright Chrome
C	605 Bright Brass	**Q**	626 Dull Chrome
D	606 Dull Brass	**X**	313 Dark Bronze
		Y	335 Black

MODELS

UB11 1" x 1" x 11" Universal Bracket for **1511, 1513, 1571, 1573, 1511S, 1511T, 1511DE, 1571DE**

UB12 1" x 1" x 22". Universal Bracket for **1512** and **1572**.


4" FRAME

4.5" FRAME
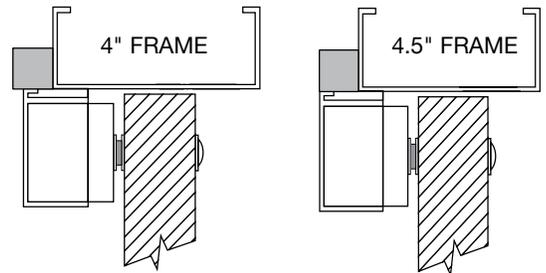
SPACER BRACKET
FOR CONCRETE FILLED FRAMES & ALUMINUM FRAME WITH BLADE STOP

APPLICATION

Aluminum frames with blade stop - lowers EmLock below blade stop. Concrete filled hollow metal frames provides multiple points for concealed wire entry

UF11V

UF81V

FEATURES

- Pre-drilled and tapped specifically for **1511, 1571, 1581** EmLock
- Machined wire chase provides multiple points for concealed wire entry from concrete filled frames.
- 628 Aluminum Anodized

MODELS

UF11V 1/2" x 1-1/2" x 11". Spacer Bracket for **1511, 1513, 1571, 1573, 1511S, 1511DE, 1571DE**.

UF12V 1/2" x 1-1/2" x 22". Spacer Bracket for **1512** and **1572**.

UF81V 1/2" x 1-1/4" x 8-3/4". Spacer Bracket for **1581**.

UF82V 1/2" x 1-1/4" x 17-1/2". Spacer Bracket for **1582**.

Hollow metal concrete filled frame

Aluminum frame with 1/2" blade stop

SDC
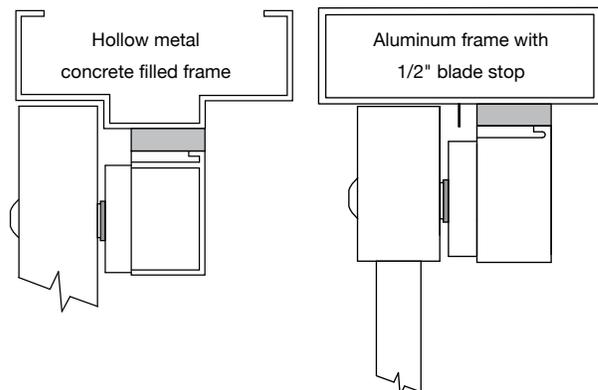
FILLER PLATES

APPLICATION

For extension of the stop to provide a proper mounting surface on the underside of the header See Figure 1B.

MODELS

For 8-3/4" Single Emlock & Exit Check Models **1581, 1581DE**

PART #	A x B
FP01	1/8" x 1-1/4"
FP02	1/4" x 1-1/4"
FP03	3/8" x 1-1/4"
FP04	1/2" x 1-1/4"
FP05	5/8" x 1-1/4"

For 17-1/2" (445mm) Double Emlock Model **1582**

PART #	A x B
FP30	1/8" x 1-1/4"
FP31	1/4" x 1-1/4"
FP32	3/8" x 1-1/4"
FP33	1/2" x 1-1/4"
FP34	5/8" x 1-1/4"

For 10"-11" Single Emlock & Exit Check
Models **1511, 1513, 1571, 1573
1511S, 1511T, 1511DEV, 1571DEV**

PART #	A x B
FP11	1/8" x 1-1/4"
FP12	1/4" x 1-1/4"
FP13	3/8" x 1-1/4"
FP14	1/2" x 1-1/4"
FP15	5/8" x 1-1/4"

For 22" (559mm) Double Emlock
Models **1512 / 1572**

PART #	A x B
FP21	1/8" x 1-1/4"
FP22	1/4" x 1-1/4"
FP23	3/8" x 1-1/4"
FP24	1/2" x 1-1/4"
FP25	5/8" x 1-1/4"

Figure 1A Regular

2" 51mm **1580 Series**
2 5/16" 59mm **1510/1570 Series**

Figure 1B Filler Plate

A
B
Filler Plate

2" 51mm **1580 Series**
2 5/16" 59mm **1510/1570 Series**
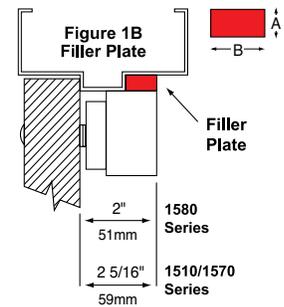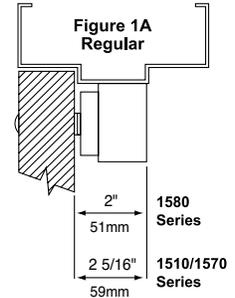
ARMATURE MOUNTING PLATE

APPLICATION

The AR Mounting plate provides a solution for mounting the EMLock® armature to the top rail of herculite, aluminum and glass, wood and hollow metal doors that do not permit the use of thru bolts.

MODELS

AR11Y Armature mounting plate for **1511, 1571** 335 Black Anodized (Specify two for models **1512, 1572**)

AR11YD Armature mounting plate with DPS for **1511, 1571**. 335 Black Anodized (Specify two for models **1512, 1572**)

Glass Door Top Rail
Glass

Wood Or Metal Door
Armature Mounting Plate
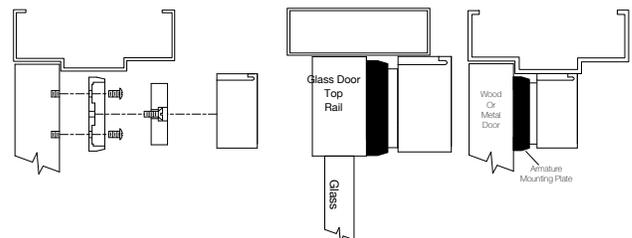
ANGLE BRACKETS

APPLICATION

Used as extension on shallow door frames to provide adequate mounting surface. See Figure 1C.

MODELS

**For 8-3/4" Single Emlock & Exit Check Models 1581, 1581DEV**

PART #	A x B
AB01	1" x 1"
AB02	1" x 1-1/2"
AB03	1-1/2" x 1-1/2"
AB04	2" x 1-1/2"

For 17-1/2" (445mm) Double Emlock Model 1582

PART #	A x B
AB30	1" x 1"
AB31	1" x 1-1/2"
AB32	1-1/2" x 1-1/2"
AB33	2" x 1-1/2"

For 10"-11" Single Emlock & Exit Check Models 1511, 1513, 1571, 1573 1511S, 1511T, 1511DEV, 1571DEV

PART #	A x B
AB11	1" x 1"
AB12	1" x 1-1/2"
AB13	1-1/2" x 1-1/2"
AB14	2" x 1-1/2"

For 22" (559mm) Double Emlock Models 1512 / 1572

PART #	A x B
AB21	1" x 1"
AB22	1" x 1-1/2"
AB23	1-1/2" x 1-1/2"
AB24	2" x 1-1/2"

Figure 1A Regular

2" 51mm — **1580 Series**
2 5/16" 59mm — **1510/1570 Series**

Figure 1C Angle Bracket

B
A

Angle Bracket

2" 51mm — **1580 Series**
2 5/16" 59mm — **1510/1570 Series**
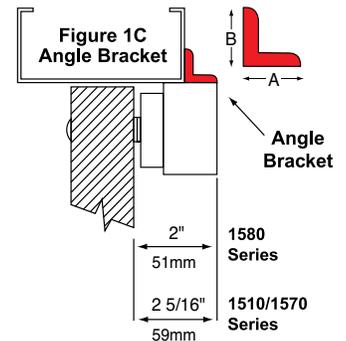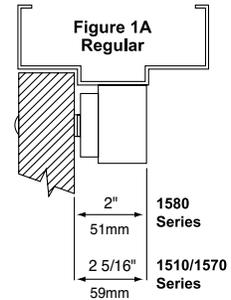
REUSABLE HEAVY DUTY DRILL FIXTURE

MODELS

1511-DF Heavy duty drill fixture for **1571** and **1511**
1581-DF Heavy duty drill fixture for **1580**

1511-DF

1581-DF
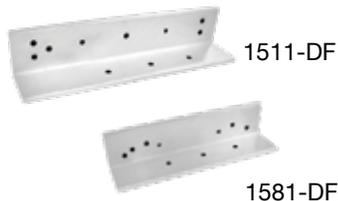
BLIND NUT PLACEMENT TOOL

MODELS

BN-PT Blind Nut Placement Tool
BN-50 Blind Nuts, 10/32, 50 Pack

INTERLOCKING QUICK MOUNT ASSEMBLY

EZ mount interlocking feature

Captive mounting screw

Adjustable mounting bracket Self tapping & drilling mounting screws

SDC
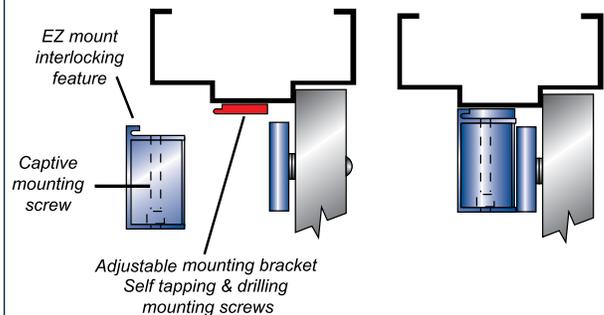
TYPICAL DOOR APPLICATIONS

1511   1571   1581
- AB Angle bracket
- Aluminum frame
- Aluminum & glass door
- Push side mounting

1511   1571   1581
- Hollow metal frame
- Wood/hollow metal door
- Push side mounting

1513   1573
- Split armature
- Hollow metal frame
- Wood or hollow metal doors
- Push side mounting

1511-(36)   1571-(36)
- Full width architectural housing
- Specify length (30", 36", 40", 48")
- Aluminum frame
- Aluminum & glass door
- Push side mounting

1512-HDB2   1572-HDB2   1582-HDB2
- HDB Glass door mounting kit
- AB series angle bracket
- Metal or aluminum frame
- Glass door without top rail
- Push side mounting

1511-HDB1   1571-HDB1   1581-HDB1
- Glass door mounting kit
- AB series angle brackets
- Metal or aluminum frame
- Glass door w/o top rail
- Push side mounting

1511-TJ1   1571-TJ1   1581-TJ81
- Top jamb mounting kit
- Hollow metal frame
- Wood or hollow metal door
- Pull side mounting

1512   1572   1582
- Hollow metal frame
- Wood or hollow metal doors
- Push side mounting

1512   1572   1582
- AB Angle bracket
- Aluminum frame
- Aluminum & glass doors
- Push side mounting

COMMUNICATING BATHROOM EMLOCKS®

Single hospital bathroom shared by two patient rooms.

SYSTEM OPERATION

Both doors must be closed to lock.

Activating **CB401A** (B) locks both doors.

Activating **CB401A** (B) again unlocks both doors.

When doors are locked, activating either **CB401B** (C) emergency release will unlock both doors.

Both doors will unlock automatically via signal from fire panel.

SYSTEM COMPONENTS

(A)   Fail Safe locks with door position switch. Example: **1511-DPS**

(B)   **CB401A** System activation push switch.

(C)   **CB401B** Emergency release push switch to be mounted above each door. **CB701B** key switch optional.

(D)   **631RF-UR1** Power Supply with Fire Panel Tie-In and Communicating Bath Controller

SDC

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[t] 800.413.8783 ▪ 805.494.0622 ▪ [f] 866.215.3138 ▪ 801 Avenida Acaso, Camarillo, CA 93012 ▪ PO Box 3670, Camarillo, CA 93011

LIT-EMLOCK-BROCHURE 04/18