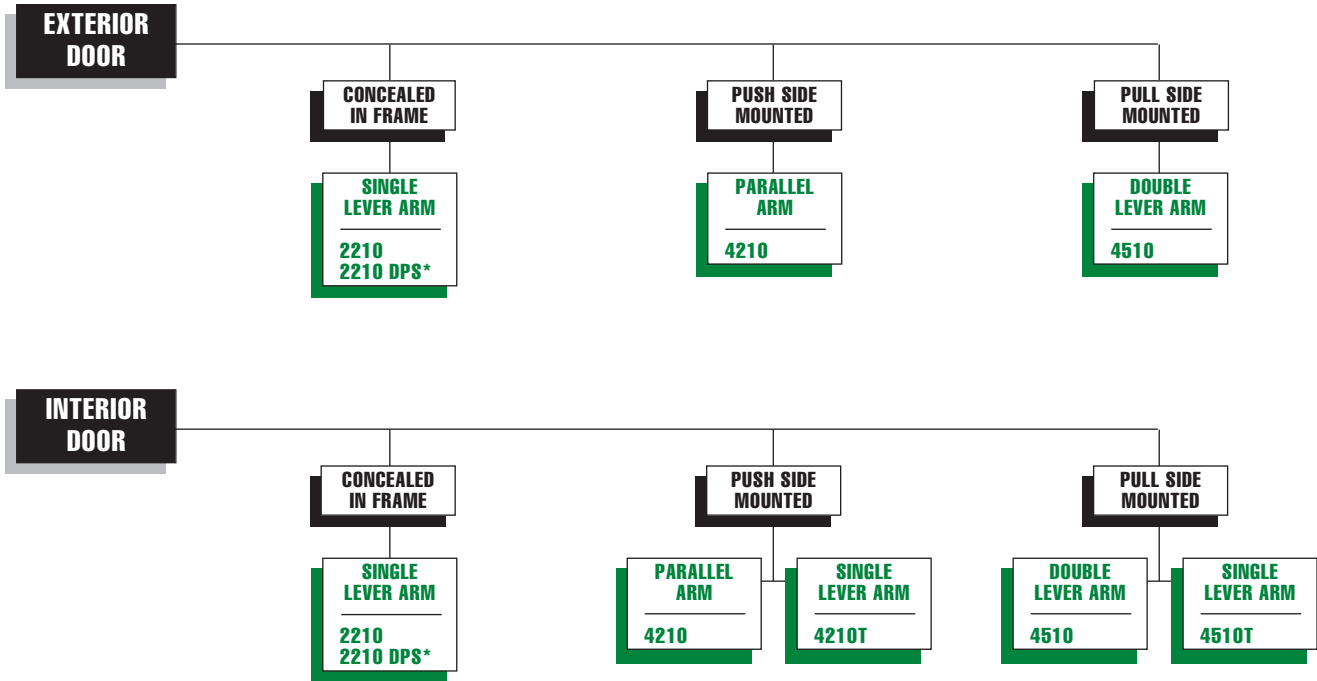


HIGH SECURITY SERIES

PRODUCT SELECTION GUIDE

High Security LCN closers feature a vandal resistant design engineered for each application, easy installation, and superior performance. This guide is based on the desired mounting of the closer.



* DOOR POSITION SWITCH

PRODUCT COMPARISON

This chart shows a basic comparison of LCN High Security Closers. Refer to the specific closer chapter for complete details.

CLOSER SERIES	MOUNTING				FINISH		COVER			CYLINDER			**ARM FUNCTION				
	HINGE (PULL) SIDE	PARALLEL ARM (PUSH)	STOP FACE	CONCEALED (FRAME)	POWDER COAT	PLATED	PLASTIC	METAL	HANDED	NON-SIZED	SIZED	ACCESSIBILITY	DELAYED ACTION	AVB***	DPS SWITCH	STANDARD (SINGLE)	EDA
2210	○	○	○	●	●	●	○	●	●	○	●	○	○	○	180°	○	○
2210DPS	○	○	○	●	●	●	○	●	●	○	●	○	○	○	180°	○	○
4210	○	●	○	○	●	●	○	●	●	○	●	○	○	○	○	180°	110°
4210T	○	○	●	○	●	●	○	●	●	○	●	○	○	○	110°	○	○
4510	●	○	○	○	●	●	○	●	●	○	●	○	○	○	○	140°	○
4510T	●	○	○	○	●	●	○	●	●	○	●	○	○	○	180°	○	○

● Available
○ Not available

♿ Closer available with less than 5.0 lbs. opening force on 36" door.

** Maximum opening with standard template. See individual closer series for degrees of opening per installation.

*** Advanced Variable Backcheck

HIGH SECURITY SERIES

APPLICATIONS

- ▶ For any concealed or surface mounted installation subject to potential abuse or vandalism.
- ▶ For correctional, aluminum, hollow metal, or wood doors and frames.
- ▶ Can be used with hinge or pivot mounted door.
- ▶ Adapter plates and other installation accessories available for unusual conditions.

FEATURES COMMON TO HIGH SECURITY CLOSERS

- ▶ Each closer is a vandal resistant design for a specific mounting; hinge side, parallel arm, stop face, or concealed.
- ▶ All high security closers are based on a cylinder certified to exceed 10,000,000 cycles in independent testing.
- ▶ Handed for right or left swinging doors.
- ▶ Closers to meet ADA reduced opening force requirements.
- ▶ All closers furnished with TORX tamper resistant machine screws.
- ▶ All surface mount closers include a heavy gauge steel cover with four attachment points.
- ▶ All closer adjustments are protected when installation is complete.
- ▶ All track closers use a jam resistant track and tamper resistant arm/roller assembly.
- ▶ Adjustable hydraulic backcheck cushions opening swing prior to 90°.
- ▶ Advanced variable backcheck (AVB) is available on all high security closers.
- ▶ Separate regulation of general closing speed and latching speed.

DESIGN ASSISTANCE

LCN has been providing reliable solutions to unique DCN control problems for over 75 years. Design and specification assistance are only a phone call away.

Contact LCN for assistance or technical information at **800-526-2400** or FAX **800-248-1460 (customer service)**, Fax **815-879-1495** for Application Engineering.

WARRANTY

High Security Series closers carry a 10 year limited warranty, except for the 2210DPS Series closer that carries a 2 year limited warranty. See General Section for complete warranty details.

MATERIALS

- ▶ High strength **cast iron** cylinder.
- ▶ **Forged steel** main arms and forearms.
- ▶ One piece **forged steel** piston.
- ▶ **All weather fluid** eliminates seasonal adjustments.
- ▶ **High efficiency, full complement**, low friction bearings.
- ▶ **Double heat treated** pinions.
- ▶ Tamper resistant regulating screws.
- ▶ Full rack and pinion hydraulic action.
- ▶ Quiet, low friction track and roller combination for all single lever arm closers.

FINISHES

- ▶ Available in seven standard or a wide selection of optional custom powder coat finishes to blend with door and frame.
- ▶ LCN's powder coat finish surpasses 100 hours of salt spray which is over four times the ANSI standard for corrosion resistance.

- ▶ For installations where a higher level of corrosive resistance is required, LCN offers an optional special rust inhibiting (SRI) pre-treatment. Closers that combine the exclusive LCN powder coat finish and the SRI pre-treatment exceed the ANSI standard for corrosion resistance even further.
- ▶ Plated finishes are available as an option to accent door and frame.

LISTINGS & APPROVALS

UL listed for self-closing doors without hold-open under "SWINGING DOOR CLOSERS" (GVEV) file R 1943.

Tested and certified under ANSI Standard A 156.4. Consult factory for details.

Consult factory for other listings such as; cUL, California State Fire Marshal, Bureau of Standards and Appeals.

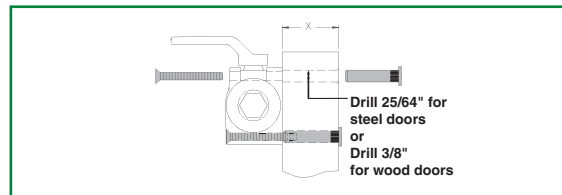
POSITIVE PRESSURE



LCN closers have been certified for three hours by UL to be in compliance with UBC 7.2 (1997) and UL 10 C. Contact LCN for specific details on door closer fire ratings.

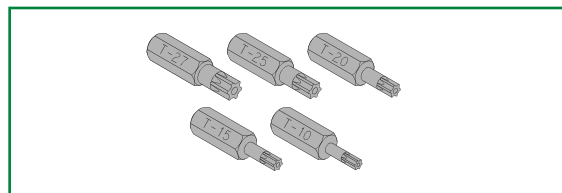
FASTENERS

TORX MACHINE SCREW (TORX) pack contains tamper resistant machine screws to install the closer. Through Bolts for TORX machine screws are available for all high security closers, except 2210 series. LCN through bolts (TB) can be installed on 1 3/4" thick doors with the 1/4-20 TORX screws supplied with the closer. Optional sizes are available for 1 5/8" or 1 3/8" door thicknesses, but this must be specified when ordering.



Note 1: For Through Bolts, specify door thickness if other than 1 3/4" (44mm).

Special driver bits are required for installation or removal of TORX machine screws with a security pin as supplied with LCN High Security closers. All bits fit a 1/4" hex drive socket. For 1/4-20 screws use T-27, for #12 machine screws use T-25, for 10# machine screws use T20, for #8 (and undercut #10) machine screws use T15, and for #6 machine screws use T10. The specific bits required for installation are listed on the "HOW TO ORDER" page for each closer. Sold separately.



MAINTENANCE

Closers mounted according to LCN installation instructions require no periodic maintenance or adjustments.

SPECIFICATIONS

Refer to "SPECIFICATIONS" section for suggested architectural specifications.