



X-09™ High Security Lock



X-09™ Features



Meets FF-L-2740A

Make your safe the safest with the X-09 high security electromechanical lock. Approved by the GSA for use on approved Class 5 and Class 6 filing cabinets and Class 5 and Class 8 Security vault doors. The X-09 is self-powered using PowerStar™ technology (an internal self-activating power plant), and features a limited-view LCD display.

A twist of the dial provides all the power necessary to enter the combination, and review audit features. The X-09 provides all of the benefits of high-security electronic locking while maintaining the reliability of a mechanical lock, independent of batteries or outside power sources. It's security with a twist.

Since the X-09 isn't subject to mechanical limitations, it provides a far superior solution for your container needs. Advanced engineering assures that X-09 entry codes cannot be compromised by observing the dial position. Plus, the tamper-resistant X-09 can not be "hacked" because the digital information is hidden in the processor's non-volatile memory.

Representing a giant step forward in controlled access, the X-09 features multiple modes of user access, and audit features. These user-friendly locks provide virtually maintenance-free operation and features Kaba Mas's exclusive PowerStar™ technology.

Three Modes of Operation

Choose your level of operation. **The Single Combination Mode** allows access by dialing a six-digit combination. **The Dual Combination Mode** allows access only when two separate codes are entered within 10 seconds of one another. **The Supervisory/Subordinate Mode** allows access by a subordinate only after a supervisor code has been entered.

Audit Feature

The X-09 has a full complement of auditing features, including non-resettable openings log, and unsuccessful attempts log (audits after 3 unsuccessful attempts) that resets once the proper access code is entered.

PowerStar™ Technology

The X-09 feature our exclusive PowerStar™ technology which generates its own electrical energy with each turn of the dial. No batteries, wires or hassles. It's electronic access control - with a twist.

X-09™ Applications



CDX-09™

We've integrated the X-09 technology with a rim deadbolt platform to represent a unique and complete high security door lock solution while complying with most safety requirements. Along with the X-09, the combination door lock unit is added to form the CDX-09 which allows you to have access control on any door. The CDX-09 conforms to FF-L-2890.



High Security Pedestrian Exit Device

Kaba Mas has configured the X-09 in ways that fit your specific applications. We've mated the CDX-09 with both a mechanical fire rated exit device or an electronic latch retraction fire rated exit device (for use with your card reader or other input device). In either application, the modified CDX-09 is interconnected with the exit device releasing the deadbolt and the latchbolt when the touch bar is depressed. High security pedestrian exit device and electronic latch retraction option not tested under FF-L-2740A or FF-L-2890.

X-09™ Specifications

Hardware Specifications

Power:	Internal, self-powered by PowerStar™ technology.
Combinations: 3 modes:	
Single:	1 million combinations
Dual:	500 billion combinations
Supervisor/Subordinate:	2 million combinations
Direct Dial:	No need to clear before entering combination. Once you stop turning the dial, the power will shut down after 40 seconds.
Dead Zones:	None
Memory:	Non-volatile
LCD:	Limited View Liquid Crystal Display with indicator arrows makes dialing easy and exact.
Combination Changes:	(LCD indicator in change key mode). Combination changed with correct combination or serial number.
Random Number View:	True Scramble
Daylocking:	No
Back Dialing:	No
Lock Reset:	Automatic when bolt is thrown or 40 seconds after turning has stopped.
Manipulation:	Fail secure against high-voltage attack, robot attack, X-ray methods, magnetic, vibration, and R/F.
Audit:	<p>The X-09 records all openings, and the record is non-resettable.</p> <p>The X-09 records unsuccessful attempts after 3 incorrect combination attempts and resets after a correct opening.</p>
Wrong Try Penalty:	10-14 errors results in a 3 minute time out. 15 errors or greater results in a 4 minute time out. Both error count and penalty time resets with valid combination.
Back Cover:	Lock On Back Cover pin prevents removing the back cover without the combination.

Environmental Performance

Temperature:	Tested -10°F to 155°F Operational Range.
Salt Spray:	Operational After 72 hours of continuous exposure (per ASTM B117-90).
High R.P.M.:	Not operational after 4 hours in each direction @ 600R.P.M. Fails Secure.
Cycle Test:	Meets or exceeds FF-L-2740A specifications.
Humidity:	Operational after 10 days of 140°F @ 98% humidity (Operational after 10 days testing per MIL-STD-810E, Method 507.3, Procedure III, Temperature Cycling 86°F to 140°F @ 98% RH)
Stress:	Operational after 7 days in a stress chamber @ 194°F. Meets FF-L-2740A Specification.
Vibration:	MIL-STD-810
Shock:	MIL-STD-901
Electrical Discharge:	250KV on Dial
Electromagnetic Pulse:	Meets FF-L-2740A specification for simulation of high altitude nuclear blast.
Case & Bolt Strength:	600 pounds in two directions.



IMPORTANT NOTE:

Department of Defense and Agencies - Inquiries please contact:
Naval Facilities Engineering Service Center
Security Engineering Division • DoD Lock Program
Port Hueneme, CA 93043-4370 • Phone: (805) 982-1574
Fax: (805) 982-2444 • <http://locks.nfesc.navy.mil/>



Your Total Access Partner



Mechanical Locks

Kaba Mas offers a full line of mechanical combination locks, dial and ring sets, as well as, safe deposit locks and hinges. Our dial and ring sets are available in black and white, satin chrome and bright brass finishes.



Kaba LC Series

Utilizing our patent pending spindleless IntelliBolt technology and the option to program a second user, the LC Series of locks provides reliable high security at an affordable price. The new bi-colored LED gives dependable visual response to your commands. Our exclusive PowerSaver battery management uses the battery's energy in the most efficient way possible. Choose from Lexan (LCLX) or Metal (LCMX) housings.



Auditcon Lock Series®

The Auditcon family of electronic locks has been developed to address the security requirements of a broad range of retail, commercial and industrial markets. Each Auditcon lock stores an audit record that cannot be compromised, making it an effective and affordable tool in combatting internal theft. The Auditcon family of locks also utilizes our award winning PowerStar technology, preventing lockouts due to dead batteries or facility power failures.

Kaba Mas, part of the world-wide Kaba group, is the world's leading manufacturer and supplier of high-security electronic locking solutions. Its complete line of self-powered, battery and mechanical locks meets virtually every container lock requirement.

Kaba Mas is dedicated to satisfying end-user needs for security and control.

Kaba Mas Corporation
749 W. Short St.
Lexington, KY 40508 USA
phone 859-253-4744
toll-free 888-950-4715
fax 859-255-2655
web www.kaba-mas.com

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