



# MARKSUSA NDB Series

Smart Wireless Deadbolt

## Installation Guide

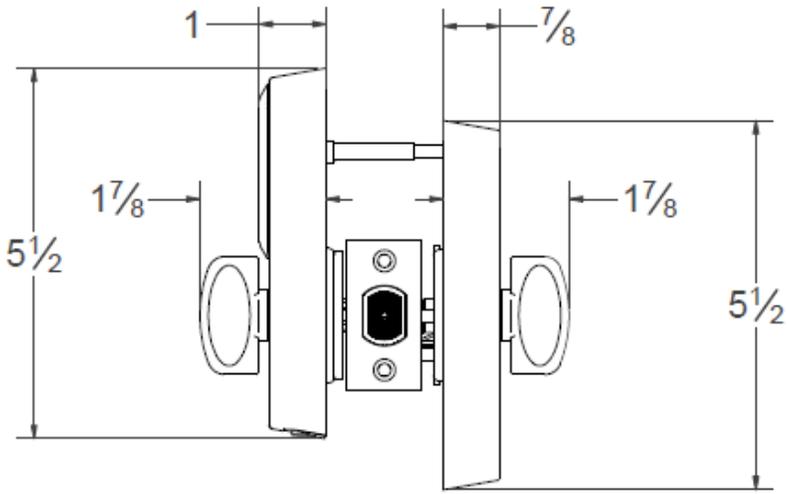


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# Smart Wireless Deadbolt Installation Guide

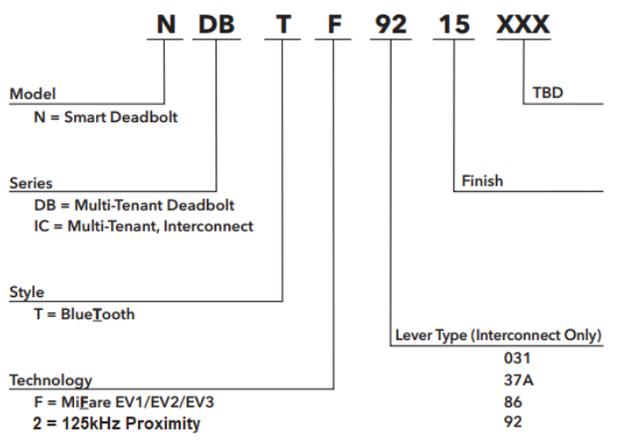
Supports MobileLink™  
(Bluetooth model only)



STANDALONE DEADBOLT

- What's Included**
- Exterior Deadbolt Trim Assembly x1
  - Interior Deadbolt Mounting Plate x1
  - Interior Deadbolt Trim Assembly x1
  - Deadbolt x1
  - Deadbolt Strike Plate x1
  - Screw Package x1
  - Alkaline Batteries x4
- Credentials & Door Position Switch not included—See ordering info

**LOCK MODEL ORDERING EXAMPLE:**



Optional Matching Lever Rose Trims Available:

- Finish 86 Crescent Lever**  
Part # 1ED86N/15-E753
- Finish 92 American Lever**  
Part # 1ED92N/15-E753

## Door Preparation

### 1. Remove existing door hardware

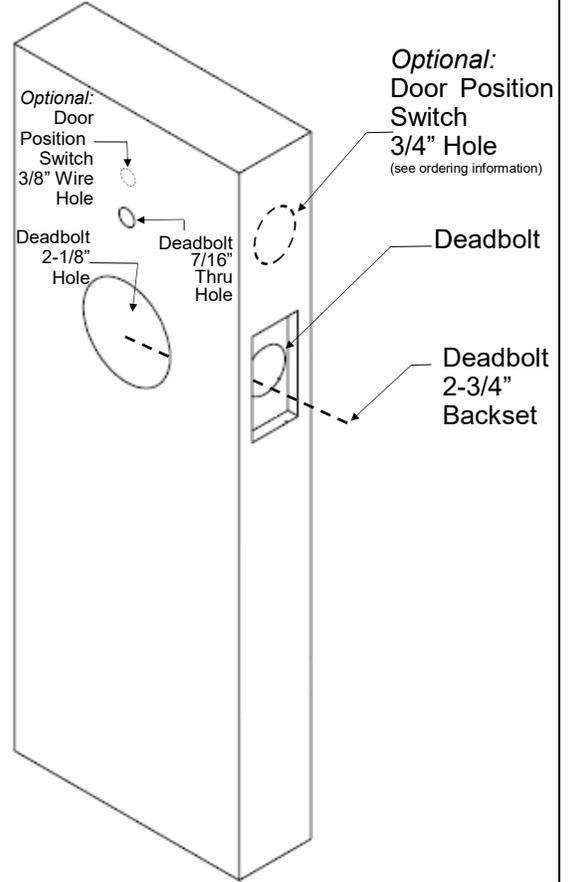
Before beginning the installation process, ensure any existing door hardware is fully removed from the door, including the deadbolt and strike plate.

### 2. Prepare the Door

Refer and use the correct template to ensure proper fit and functionality.

### 3. Check door thickness and alignment

Door Thickness: 1-3/4" (45 mm) ±1/16"  
(Thicker doors require longer tailpiece & screws. Please contact factory)

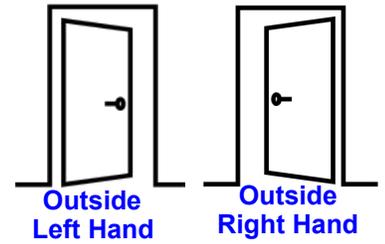


### Deadbolt Only (Refer to template TNBD)

- Requires (1) 7/16" thru hole.
- Requires (1) 2-1/8" Diameter thru hole for Deadbolt Lock Chassis.
- Requires 1" Diameter Latch Hole at Center Line of door thickness.
- Standard 2-3/4" Backset Deadbolt (2-3/8" Available from factory).
- Check door position and install Strike Plate.
- Optional, ordered separately: Door Position Switch.  
(1) 3/4" DPS hole (1) 3/8" wire hole.

# 1 Install the Tailpiece

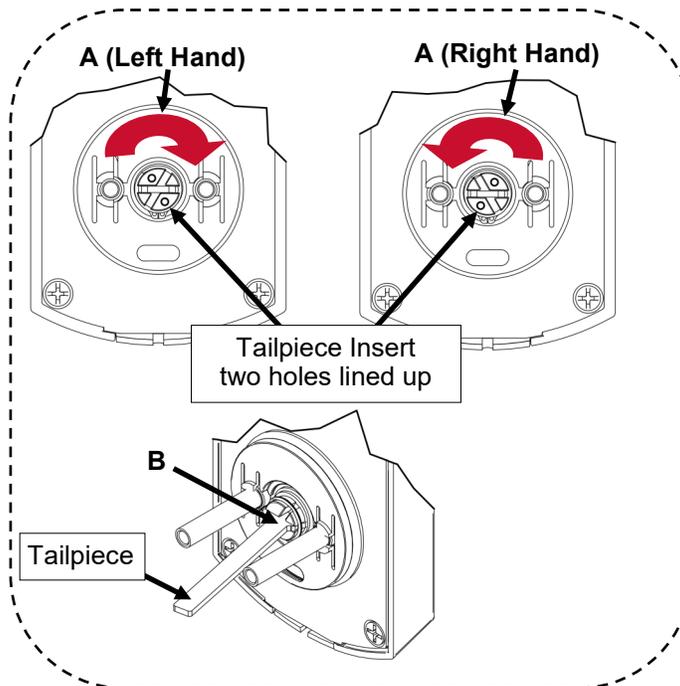
Follow these steps to install the tailpiece correctly based on the direction of the door handing (left or right).



## Tailpiece Installation

The tailpiece must be installed according to the handing orientation.

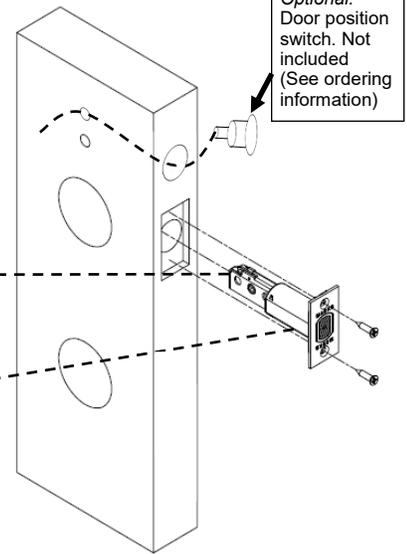
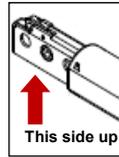
- A) Use your hand or thumb turn to rotate the tailpiece insert **Clockwise** for left handed doors, **Counter Clockwise** for right handed doors, until the slot is horizontal and aligned with the two holes (Dots) as shown in the diagram below.
- B) Next, insert one side of the tailpiece at an angle horizontally, then snap the other side into place to secure it.



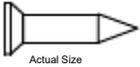
ED217—Tailpiece

## 2 Install the Deadbolt (with optional Door Position Switch)

1. Using the supplied **#8** Sheet Metal or Wood screws, install the deadbolt.
2. **Optional:** Pass the door position switch wires through the two pre-drilled holes, then insert the door contact, making sure it's flush against the edge. (Door position switch, not included. See ordering information)



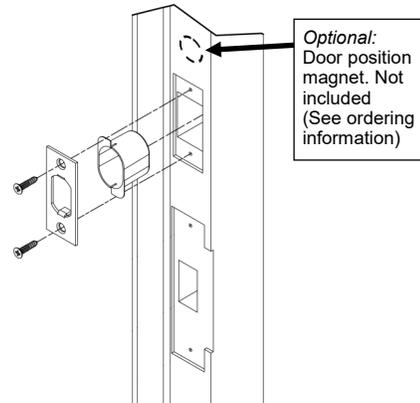
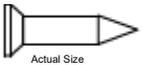
(2) #8 x 3/4"



## 3 Install Strike Plate

1. Install the deadbolt strike plate using the supplied **#8 screws**.
2. **Optional:** Install the Door Position Switch magnet, making sure it's flush against the edge. (Door position switch, not included. See ordering information)

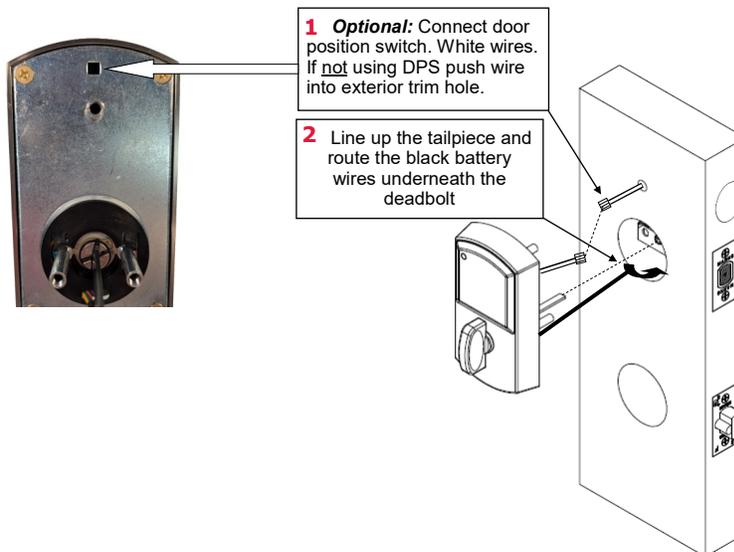
(2) #8 x 3/4"



## 4 Install Exterior Deadbolt Trim

Install the exterior deadbolt trim through the 2-1/8" diameter holes.

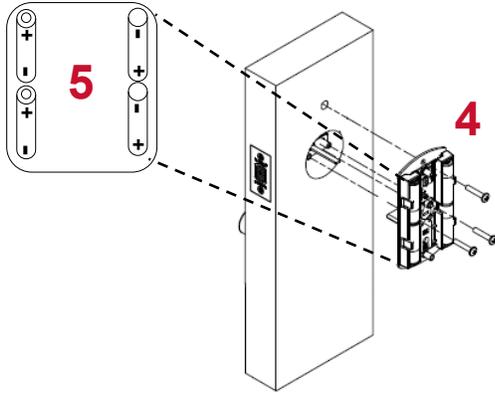
1. **Optional:** First, if using the door position switch, connect the deadbolt door position switch wire to the door position contact installed. If you are not using the Door Position Switch push the wire into the exterior housing hole, shown below.
2. When installing the deadbolt trim, align the tailpiece with the deadbolt assembly and pull the wiring through the door to the interior side. Make sure to route the wiring from the deadbolt trim beneath the deadbolt assembly for proper installation.



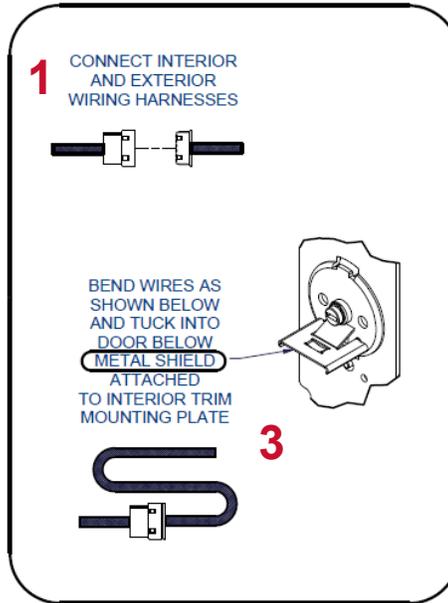
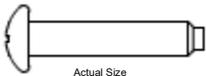
# 5 Install the Interior Trim Mounting Plate & Batteries

1. Connect the Interior and Exterior wiring harness together.
2. Rotate the tailpiece cam until it is positioned horizontally.
3. While placing the interior trim plate against the door, carefully bend the wires and tuck them beneath the deadbolt and below the metal shield attached to the interior trim mounting plate. At the same time, guide the tailpiece into the cam that was rotated in step 2.
4. Fasten the interior trim mounting plates using the supplied **#10 Screws**.
5. Install (4) AA-LR6 alkaline batteries (included).

Requires 4 AA-LR6 Alkaline Batteries—Included



(3) #10-32 x 1"

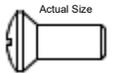


2



# 6 Install the Interior Trim

(2) #10-32 x 1/2"



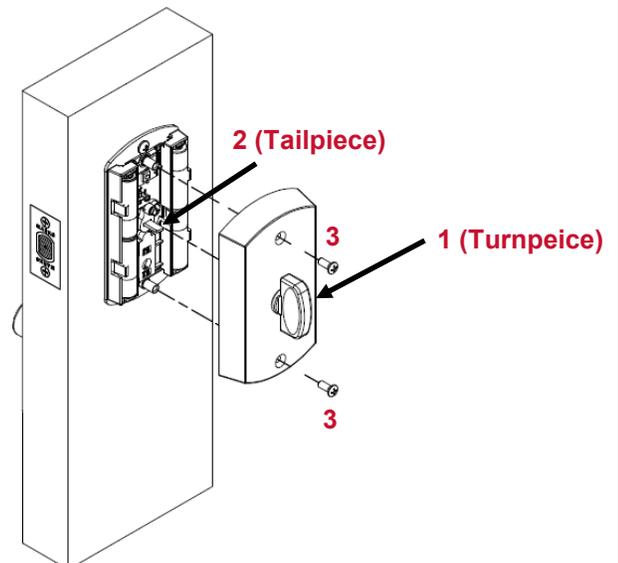
Before installing the Interior Trim, if you plan to use Local Standalone Mode (which allows up to 5 local card credentials to be enrolled in the deadbolt), follow the Standalone Mode steps below, then proceed with installing the interior trim. If you are using software to program the deadbolt, you can go ahead and just install the interior trim.

**Warning:** If using Construction Mode—STOP. Do not program the lock in standalone mode or with software, as this will permanently and irreversibly exit Construction Mode. To setup construction mode, please have authorized personnel contact Technical Support.

1. Position the turnpiece vertically as shown, so that the inside slot is horizontal and aligned with the tailpiece.
2. **Tip:** You may need to rotate the tailpiece slightly in either direction until the plate engages.
3. Fasten the interior trim using the supplied **#10** oval head screws.

## Local Standalone Mode

1. Default the lock by removing one battery. Next, press and hold the **(S1) Reset** button for 30 seconds. Afterward, replace the battery. Once you hear three beeps, press and hold the **(S1) Reset** button again until you hear six slow beeps, then release the button.
2. Enter programming by pressing and holding the **(S1) Reset** button until 8 rapid beeps are heard.
3. The green LED will begin flashing and emitting rapid beeps.
4. Present the first card within 10 seconds, when successful, a single beep with a green LED will present.
5. If adding more cards, repeat steps 3 & 4.
6. Exit programming by pressing and holding the **(S1) Reset** button until 6 rapid beeps are heard.



# 7 Testing Lock Operation

**CONGRATULATIONS!** Your lock is now successfully installed! If you enrolled credentials using Local Standalone Mode, you must factory reset the deadbolt, in order to program into software.

**Default operation:** By default, with only batteries installed and not programmed for local standalone mode, the deadbolt allows engagement from either side. If Standalone Mode has been programmed, you must present a valid card credential for the thumb turn to engage; otherwise, it will spin freely until a valid credential is detected. The standalone deadbolt requires manual operation of the thumb turn to unlock when exiting.

# 8 Software Programming

Depending upon the Software Platform and Sync Option you are using, please **scan** or **click** the **QR Code** to Get Started! (Dealer Access Required)

**Warning:** If using **Construction Mode—STOP**. **Do not** program the lock in standalone mode or with software, as this will permanently and irreversibly exit Construction Mode. To setup construction mode, please have authorized personnel contact Technical Support.

<p><b>MVP Access™</b> (Using Wireless Gateway)</p>  <p>* Sync Options Available - Wireless Gateway &amp; MobileLink™</p>	<p><b>MVP Access MobileLink™</b> (Using Bluetooth Phone Sync. No Wireless Gateway required)</p> 	<p><b>MVP EZ™</b> (Using Wireless Gateway &amp; MobileLink Bluetooth Phone Sync Options Avail.)</p>  <p>* Sync Options Available - Wireless Gateway &amp; MobileLink™</p>	<p><b>CA4K</b> (Using Wireless Gateway)</p>  <p>* Sync Options Available - Wireless Gateway Only</p>
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## Battery Replacement

- When low, the deadbolt emits a long tone after presenting a card.
1. Locate and remove the two screws on the interior trim. (Keep the screws aside for reinstallation)
  2. Remove the interior trim and set it aside.
  3. Remove and replace the batteries w/ **4 AA (LR6) Alkaline batteries.**
  4. Reinstall the interior trim with the two screws removed in step 1.

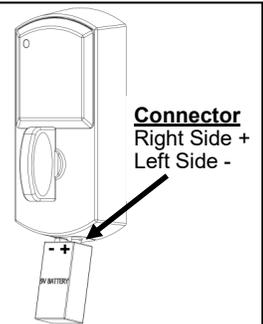
## Factory Reset Procedure

- Restores factory settings, erasing all data. By default, with batteries installed, the deadbolt **allows engagement from either side.**
1. Remove the interior trim and remove at least one battery
  2. Press and hold the **(S1)** Reset button for 30 seconds
  3. Replace the batteries. After 3 beeps are heard, press and hold the **(S1)** Reset button, until 6 beep are heard.
  4. Release the **(S1)** Reset button.

## Emergency / Battery Failure Override

This method allows the use of a 9V battery to gain temporary access, in order to replace the batteries. A valid card badge is required.

1. Place and hold a 9V battery to the bottom connectors observing polarity. Wait for 3 green LEDs and 3 audible beeps.
2. While keeping the battery in contact, present a valid card badge to the reader.
3. Once access is granted, turn the deadbolt to unlock the door.
4. Immediately follow the steps under Battery Replacement.



Problem	Possible Causes	Solution
Deadbolt not engaging	The tailpiece was not properly installed.	Refer to Step 1 and ensure the tailpiece is installed correctly based upon the door handing.
Deadbolt is engaging, but I'm unable to lock the door.	The Deadbolt is not programmed. By default, with the batteries installed, the deadbolt will allow for engagement from both sides of the door.	The deadbolt must be programmed in order to secure the door. Please refer to Step 6 for standalone mode or Step 8 for software programming.

# Specifications

## Environmental—Weather Resistant

### Surface-Mounted Network Deadbolt Exterior Trim w/ ProxReader:

Suitable for use on an exterior out swinging door. Outdoor temperature range -30°F to +150°F (-35°C to +66°C)

### Surface-Mounted Network Deadbolt Interior Trim w/ ProxReader:

For interior use only. Temperature range: 0°F - 140°F (-18°C - 60°C).

## Operating Voltage

6VDC, nominal.

## Battery Life

Requires (4) standard AA Alkaline Batteries. Allowing for up to 3 year life span, depending upon usage.

## ACCESSORIES / CREDENTIAL

### ORDERING INFORMATION:

**KEDSW264** 3/4 Recessed Door Position Switch & magnet with connector

**MVP-IM3-POE** Dedicated MVP POE Gateway, Gen. 3 Power of Ethernet, No AC power required. (For use with MVP Access or MVP EZ only)

**MVP-IM3-80211** Dedicated MVP Combo Gateway, Gen 3 Wired/Wireless, supports wireless or hardwire Ethernet connection. (For use with MVP Access or MVP EZ only)

(Note Standard Alarmlock Gen. 3 Gateways are also supported, but will require MVP firmware download prior to use.)

**RR-1BUTTON** Wireless Single button remote release

**RR-4BUTTON** Wireless 4 Button remote release

### For MIFARE Model Credentials:

**Mi422K-25** Mifare, 42 bit, 2K, EV2, 25 pack

**MiC2K-25** Mifare, Custom Card, 2K, EV2, 25 pack

**KMi422K-10** Mifare, 42 bit keyfobs, 10 pack

**KMiC2K-10** Mifare, 42 bit Custom keyfobs, 10 pack

### For PROX Model Credentials:

Multiple ordering options are available for Prox Credentials. For more information, please contact our Sales Department at 1-800-645-9330.

# Features

(Features Vary. Please refer to the [MVP Comparison Matrix](#) also available at [www.napcoaccesspro.com](http://www.napcoaccesspro.com) under Products)

## Platforms Supported

- MVP Access™
- MVP EZ™
- Continental Access CA4K

## Credentials / User Access Methods

- Depending on the model, the MIFARE version is compatible with Napco MiFare EV1/EV2 Smart Cards, while the PROX version supports proximity cards only. Refer to the ordering information above for details.
- Bluetooth Credentials via Smartphone app (Bluetooth Lock models only)

## User Features

- Supports up to 5000 Key-free Users (Depending on platform)
- Supports up to 10 Facility Codes (Depending on platform)
- Up to 30 Holidays (Depending on platform)

## Lock Features

- Built-in Bluetooth (Depending on model)
- 900mhz wireless capabilities for easy installation
- No Cylinder—For pick-proof security
- Field Reversible
- Manual credential enrollment capability
- One Motion Egress (Interconnected Model only)

## Audit Trail

- 7,000 Event Capacity (Depending on platform)
- Entries Logged with Time and Date

## Scheduling & Access Modes (Depending on platform)

- 254 Scheduled Events (Depending on platform)
- Automated Unlock / Lock—Free Access
- Double Read Holds Door Unlocked

## Finishes Available

- US15 (Satin Nickel) - ANSI 670

\* MobileLink™ Bluetooth Lock Programming Range: Up to 10-20 feet from lock. Model Requires Bluetooth & Supports MVP Access and MVP EZ only.

\* Wireless Gateway Lock Programming Range: up to 75-175'

*Range values are approx. and may vary based on environmental factors*

- RR-1BUTTON *Wireless Remote Release Button* (see WI1999) and the RR-4BKEYFOB *Wireless Remote Release Keyfob* (WI2004)
- Single Card Enrollment Option for "Stand-Alone Mode" Installation
- Construction Mode

- Users Assignable up to 16 Access Groups (Depending on platform)
- Global Lock-Down / Unlock in emergency; activated from MVP Access, or initiated from Mobile App

- Non-Volatile (Fixed) Memory
- Real-Time Clock, with Auto Daylight Saving Time
- Visual and Audible Feedback
- Integrated Door position switch
- Uses four Standard AA Batteries, with Low Battery Warning indication

- Critical Programming Events Logged
- Door position logging capability

- First In Control Modes
- Enable / Disable Schedules
- *Bluetooth Power Saving Mode after (4) hours of inactivity.* (Depending on model)

- US19 (Matte Black "New") - ANSI 671

## Marks USA Limited Warranty & Terms and Conditions

**2 Year Electronic Limited Warranty:** MARKS USA warrants to the original purchaser that its products are free from defects in materials and workmanship so long as they occupy the premises. In the event our product does not conform to this warranty, MARKS USA will repair or replace the product free of charge at its sole discretion. This warranty does not cover defects or damage arising from improper installation, lack of or improper maintenance, improper storage, shipping and handling, improper application or specification, ordinary wear and tear, misuse, abuse, accident, improper voltage, unauthorized service, or use with unauthorized non-MARKS products or parts. We reserve the right to make changes in materials, components or manufacturing methods. Liability under all warranties expressed or implied is limited to replacement of the defective goods. This warranty does not cover nor provide for the reimbursement or payment of incidental or consequential damages or any shipping charges related to exercising of this warranty.

**Lifetime Mechanical Limited Warranty:** MARKS USA warrants that its products are free from defects in materials and workmanship. This warranty is limited to the lifetime of the door on which our lock is installed to the original purchaser so long as they occupy the premises. In the event our product does not conform to this warranty, MARKS USA will repair or replace the product free of charge. This warranty does not cover defects or damage arising from improper installation, lack of or improper maintenance, improper storage, shipping and handling, ordinary wear and tear, misuse, abuse, accident, unauthorized service, or use with unauthorized non-MARKS products or parts. We reserve the right to make changes in materials, components or manufacturing methods. Liability under all warranties expressed or implied is limited to replacement of the defective goods. This warranty does not cover nor provide for the reimbursement or payment of incidental or consequential damages. Additionally, the company will not warrant product installed in educational facilities and student housing.

### Terms & Conditions:

**TERMS:** Net 30

**FREIGHT:** Prices are F.O.B. Amityville, New York. Freight allowed on shipments over \$7000 net invoice value within Continental U.S.

**RETURNED GOODS:** Goods may not be returned without a Returned Goods Authorization (RGA) and are subject to a restocking charge. RGA label must be on all cartons.

**MINIMUM CHARGE:** Orders for less than \$250 net invoice are subject to a \$25 handling charge.

**MINIMUM SALES VOLUME:** The company reserves the right to discontinue direct sales to any customer who does not meet the minimum annual sales requirements during any 12 month period. Minimum annual sales volume is determined on the basis of accepted orders during each applicable year. All orders are acknowledged. It is the customers responsibility to check accuracy of the acknowledgment when received.

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