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INSTALLATION INSTRUCTIONS FOR THE EAX-300 DOOR PROP / DOOR CHIME (EAX-300 / 300W / 300SK)





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The Detex EAX-300 is designed for applications that require a door prop alarm device on secured doors. The alarm, with approximately 100dB, will sound when someone attempts to keep the door open beyond the selected time. The EAX-300, with it's smaller size makes it the choice for quick and easy installations on emergency exit and restricted doors.

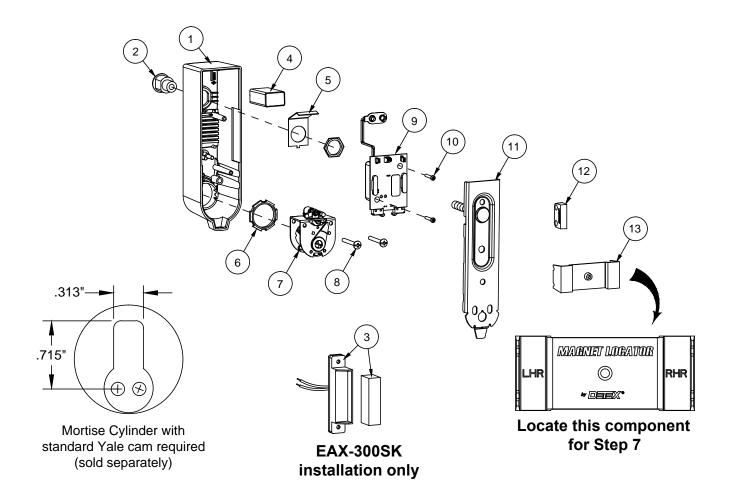
Should you have any Question/Problem with your Detex device please call Detex Technical Support from the job site at 1-800-729-3839 and choose option 2 on our menu. Please do not return the product to the distributor.

For WARRANTY information, scan code below or go to www.detex.com/warranty



For device installation videos, scan code below or go to www.detex.com/videos



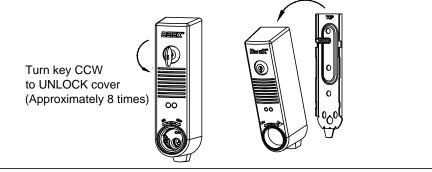


	PARTS BREAKDOWN			
Item	Order Part #	Description		
1	105428-1	Cover, gray		
1	105428-2	Cover, black		
2	PP-5572	Cover Lock, Nut & 2 Keys		
3	MS-1039S	Mag Switch (surface mount) (see STEP 8)		
4	PP-5567	9 Volt Battery		
5	102606	Battery Retainer		
6	100783	Cylinder Nut		
7	102655	Cam Assembly Kit		
8	102627-15	8-32 Truss Head Screw		
9	105828-1	S & R Circuit Board Kit, Standard		
3	105837-1	S & R Circuit Board Kit, Weatherized		
10	PP-5374-46	#4 x 3 /4" Screw, PPH		
11	102715	Backplate		
12	102665	Magnet Kit		
13	102607	Magnet Locator		
14	102633	Hardware Kit (includes keystop parts)(not shown)		

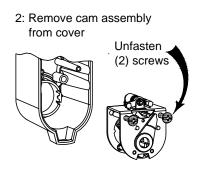
Your particular part or configuration may not be shown: Contact Detex technical support at 800-729-3839 (option 2)

HARDWARE LIST		
SYMBOL	SYMBOL P/N & DESCRIPTION	
	P/N: PP-5183-29 #6 x 1-1/4" PPH, TYPE AB THREAD FORMING (SMS)	#35 (7/64")
	P/N: 100980 1/4-20 x 1" PPH MACHINE SCREW	#7 (.201")
	P/N: 103276-63 #14 x 1" PPH TYPE AB, SELF-DRILLING THREAD FORMING	7/32" or 3/16" (OPTIONAL)
	P/N: PP-5360-108 6-32 x 1/2" PPH TYPE C THREAD FORMING (ROLLING)	#32 (.116")
	P/N: 102642-3 1/4" x 1-3/16" ANCHOR	1/4"

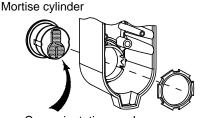
# STEP 1: REMOVE COVER FROM BACK-PLATE



## STEPS 2-6: PREP DEVICE (If Key Stop is required, see OPTIONAL KEY STOP page 6)

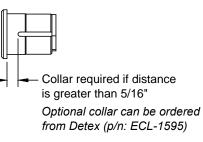


3: Install mortise cylinder (sold separately) with cylinder nut provided



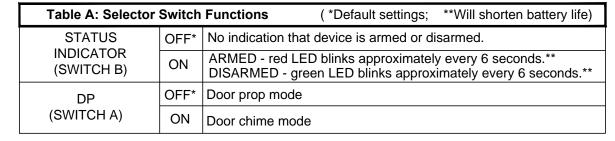
Cam orientation as shown with key removed

If 7-pin cylinder is used -OBSERVE



6: Connect 9-volt battery and 4: Re-install cam assembly 5: Set slide selector switch functions (See Table A on page 4) Т install as shown (Default settings shown) Set OKC cam as shown STATUS INDICATOR I DP (OFF) (OFF) CORRECT n WRONG 1

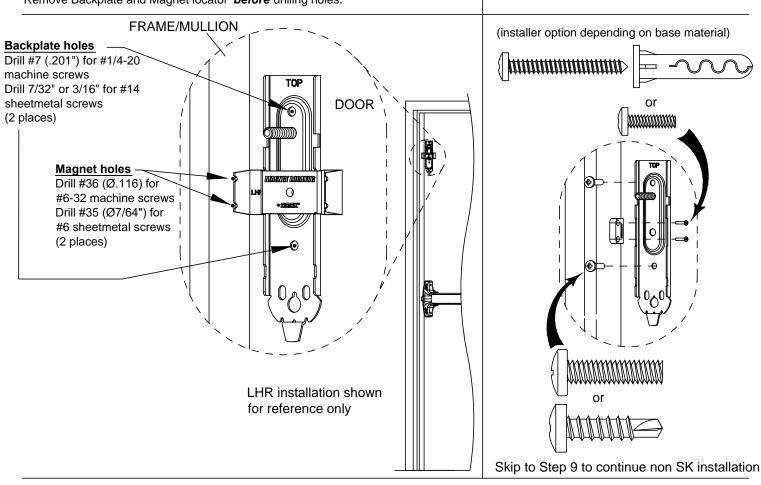
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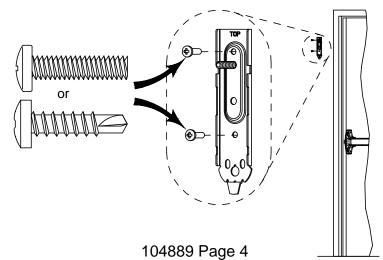
## STEP 7: For <u>Door Mounting</u> - Door Prep & Backplate / Magnet Mounting (for Wall mounting (SK) go to step 7B)

Place Backplate and Magnet locator on door as shown below. Mark Backplate and Magnet holes on door and frame/mullion. Remove Backplate and Magnet locator **before** drilling holes.

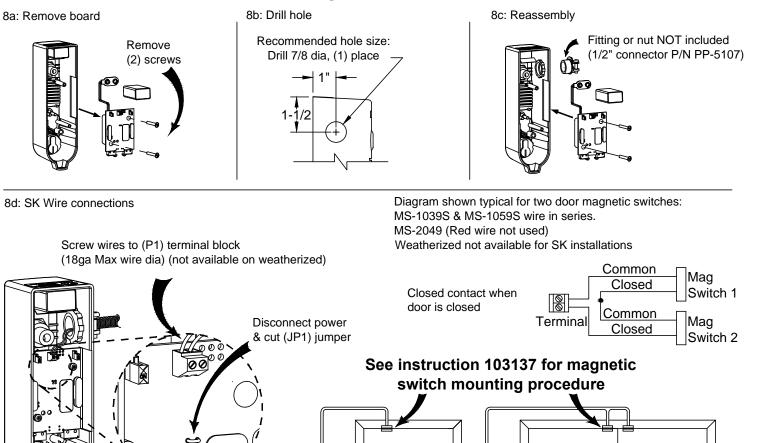
Install magnet and backplate



STEP 7B: For Wall Mounting (SK) - Backplate Mounting



# STEP 8: NOT FOR USE ON EAX-300W Multi-door & SK function wiring connection (if required).

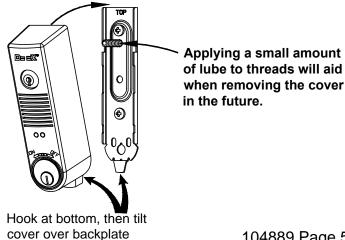


# **STEP 9: INSTALL DEVICE**

2. 1/16" slotted jeweler screwdriver required.

1. If wire runs longer than 10 feet, must use twisted pair.

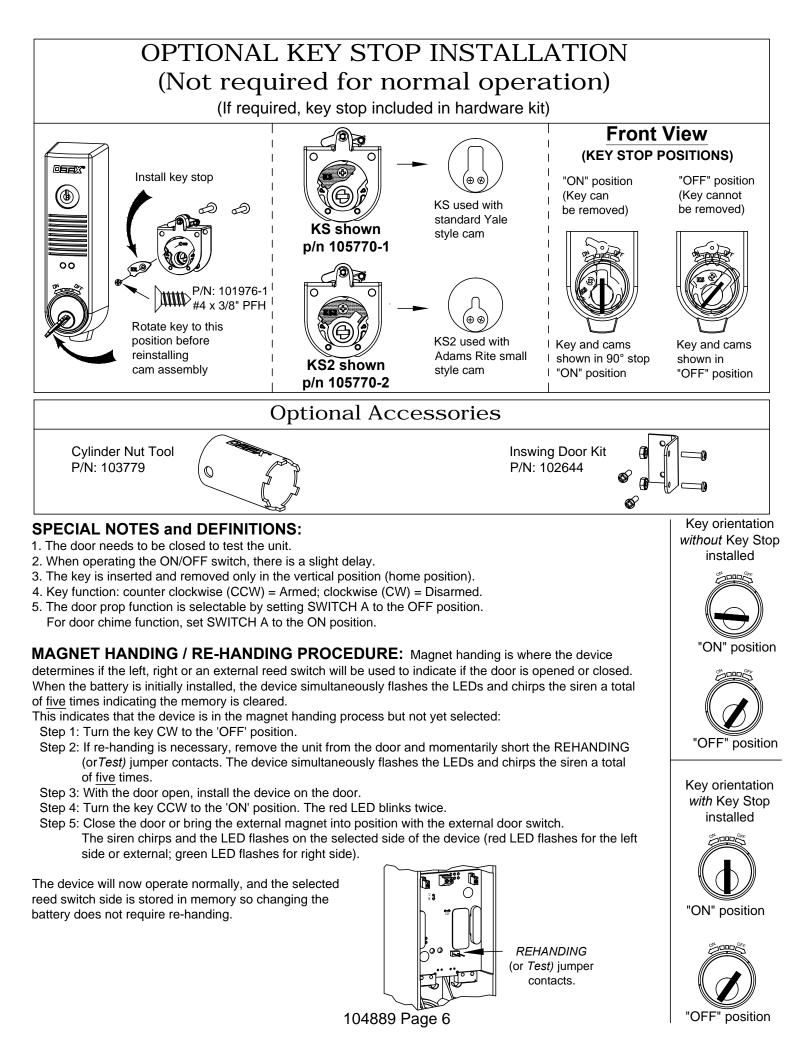
NOTES:





Turn key CW





**DOOR PROP OPERATIONS:** The door prop function is selected by setting SWITCH A to the 'OFF' position. To arm the system, close the door and turn the key CCW to the 'ON' position. The red LED will flash twice indicating that the device is now armed. If the door is opened, the device will begin a timing countdown according to the selected amount of time (15 seconds default). If the *Status Indicator* (switch B) is 'ON', the red LED will blink every second during the countdown. If the door is not closed before the door prop time runs out, the alarm sounds and the red LED flashes. Closing the door will silence the alarm and rearm the unit. To change the door prop timing, see the section *Changing Door Prop Timing*.

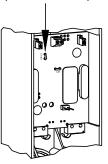
**DOOR CHIME OPERATIONS:** The door chime function is selected by setting SWITCH A to the 'ON' position. To arm the system, close the door and turn the key CCW to the 'ON' position. The red LED will flash twice indicating that the device is now armed. If the door is opened, the device sounds a series of siren chirps lasting five seconds. No other action is taken until the door is closed and the unit rearms.

LV Opt jumper (under Switch A)

DISARMING: To turn off the alarm or disarm the system, turn the key CW to the 2 o'clock position.

TROUBLESHOOTING: If the unit does not arm, the magnet may need to be re-aligned or shimmed closer to the EAX-300. If the unit fails to operate correctly, restart the device by removing the battery for approximately five seconds.

**LOW BATTERY ALERT:** Simultaneous siren chirps and red LED flashes occur at 45 second intervals when battery reaches approximately 7 volts. Cut the *LV Opt* jumper if low battery alert is not desired.

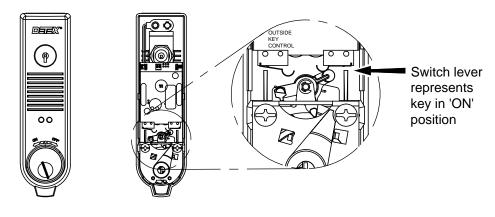


**STATUS INDICATOR:** With the Status indicator (SWITCH B) 'ON': red LED flashes every six seconds when armed; green LED flashes every six seconds when disarmed.

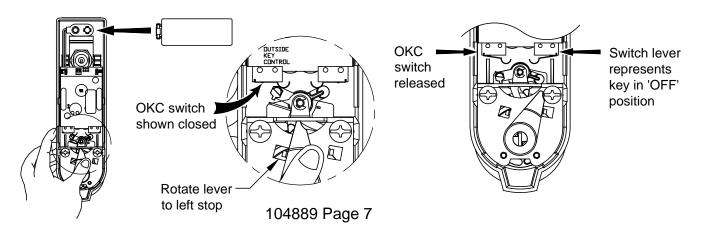
**CHANGING DOOR PROP TIMING:** *Note:* \**Device must be magnet handed.* \**LED indications will flash a total of 3 times before the timing is changed.* 

Step 1: Turn the key CW to the 'OFF' position, remove the unit from the door and disconnect the battery.

Step 2: Turn the key CCW to the 'ON' position.



<u>Step 3</u>: While holding the OKC lever in the closed position (by rotating lever to the left stop), reconnect the battery. The device will chirp the siren once and the LEDs will flash the currently selected door prop time (See Table B). Release the OKC switch lever and turn the key to the 'OFF' position.



<u>Step 4</u>: Close then release the OKC switch lever to cycle to the next highest door prop time. Table B lists the available door prop times and their corresponding LED indications. For example, to indicate the default 15 second door prop time, the red LED would flash once, followed by 5 green LED flashes. To indicate 2 minutes, the red and green LEDs

would flash simultaneously two times. Once the desired timing is selected, wait approximately 15 seconds for the unit to flash the selection three times. The timing has successfully been changed upon hearing the siren chirp four times. This new timing selection is retained in memory even with battery removal.

<u>Step 5</u>: Reinstall the device on the door.

Table B		
Door Prop Timer LED indication		
1 second	1 GREEN flash	
15 seconds (Default)	1 RED flash - 5 GREEN flashes	
30 seconds	3 RED flashes	
45 seconds	4 RED flashes - 5 GREEN flashes	
1 minute	1 RED & GREEN simultaneous flash	
2 minutes	2 RED & GREEN simultaneous flashes	
4 minutes	4 RED & GREEN simultaneous flashes	

PROBLEM	PROBABLE CAUSE	ACTION
Device is not powering up.	1) Battery not properly installed.	1) Remove battery and firmly reinstall.
Device not arming.	<ol> <li>Magnet not aligned correctly.</li> <li>Battery is dead.</li> <li>Cylinder had wrong cam installed.</li> <li>Cylinder microswitch lever broken.</li> <li>Cylinder installed incorrectly.</li> </ol>	<ol> <li>Use magnet locator to install magnet. See magnet handing.</li> <li>Replace battery.</li> <li>Requires standard Yale cam.</li> <li>Microswitch needs to be replaced. Remove PCB and return to Detex Repair.</li> <li>Check cylinder installation. Make sure key is turned counter-clockwise all the way to ON.</li> </ol>
Chirp every 45 seconds	Low battery	Install new battery.
External magnet not working.	Device is not set for external magnet.	Cut JP1 jumper. With battery connected, short "Test mode" pins, listen for 5 chirps. See RE-HANDING section.
No connector for external magnet.	Weatherized device.	Weatherized device can not be used with external contact.

## TROUBLESHOOTING

### DOOR PROP

PROBLEM	PROBABLE CAUSE	ACTION
After arming and door is opened, the device chirps 4 times then shuts off.	The device is setup as Door Chime.	Reset device, slide Switch A to the <b>OFF</b> position.

### DOOR CHIME

PROBLEM	PROBABLE CAUSE	ACTION
After arming and door is opened, the device blinks red.	The device is setup as Door Prop	Reset device, slide Switch A to the <b>ON</b> position.