DEFCON 31 Lockpick Village
Deviant Ollam











## **Some History**

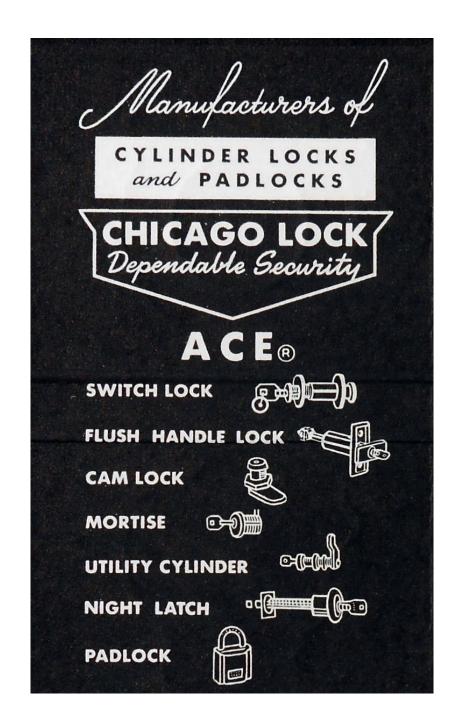




## **Chicago Lock Company**



















#### **Fort Lock**



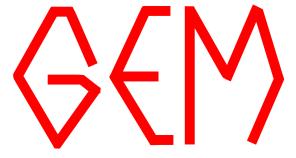


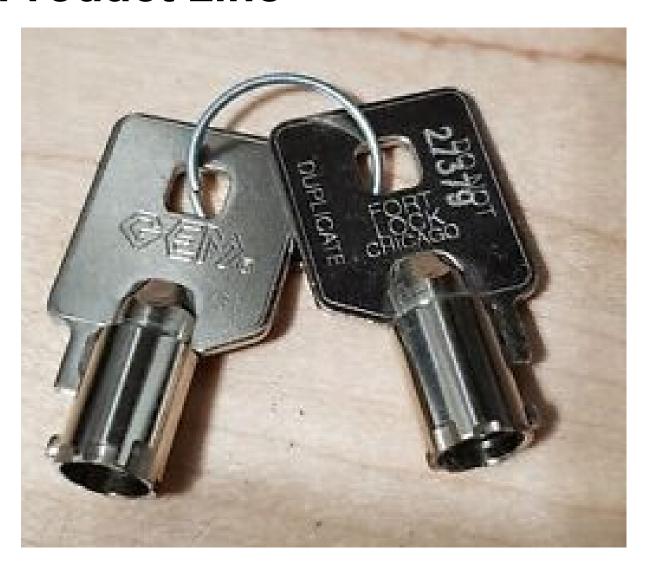
#### **Fort Lock - GEM Product Line**





#### **Fort Lock - GEM Product Line**







# National Cabinet (now CompX)



#### **National Cabinet**





#### **National Cabinet**





## CompX





### **CompX Fort**



Fort Lock K00V Key Blank SKU # FO/K00V US\$0.72



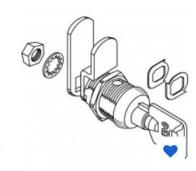
Fort Double Bitted Showc...

SKU # SG29000

US\$23.09



Fort Lock Key Blank \*
SKU # FO/K54G
US\$0.97



Fort Gem Multi-Function ...
SKU # FOMFW1000
US\$17.81



Fort Lock K60 Key Blank SKU # FO/K60 US\$1.01



Fort Gem Multi-Function ...
SKU # FOMFSW3
US\$44.91



Fort Lock Key Blank \*
SKU # FO/K750
US\$1.07



Fort Lock Key Blank\*
SKU # FO/K752
US\$1.11

## **CompX Chicago**





#### CompX

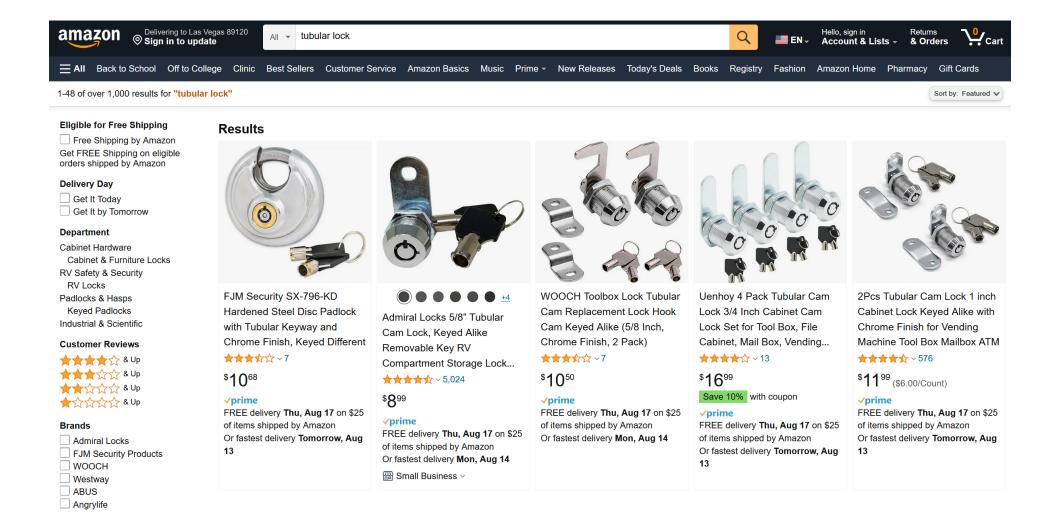




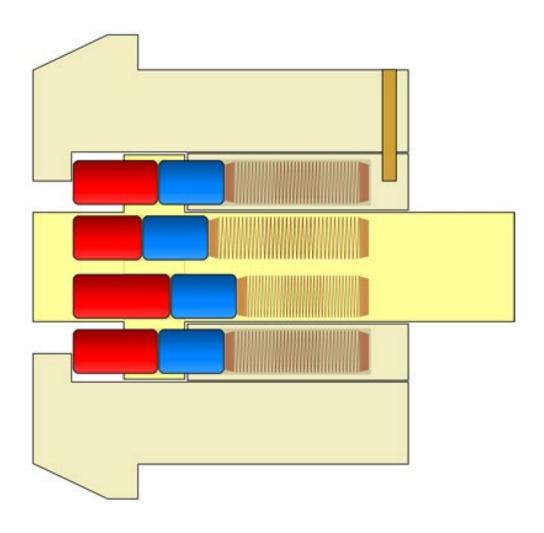
# That's Where We Are Today



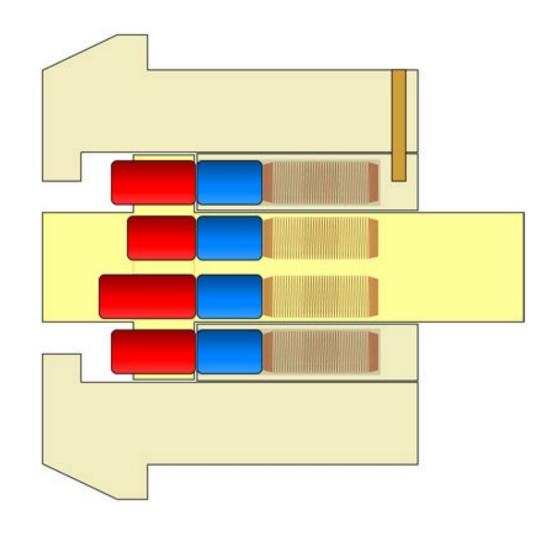
#### **Generic Tubular Locks Are Plentiful Now**































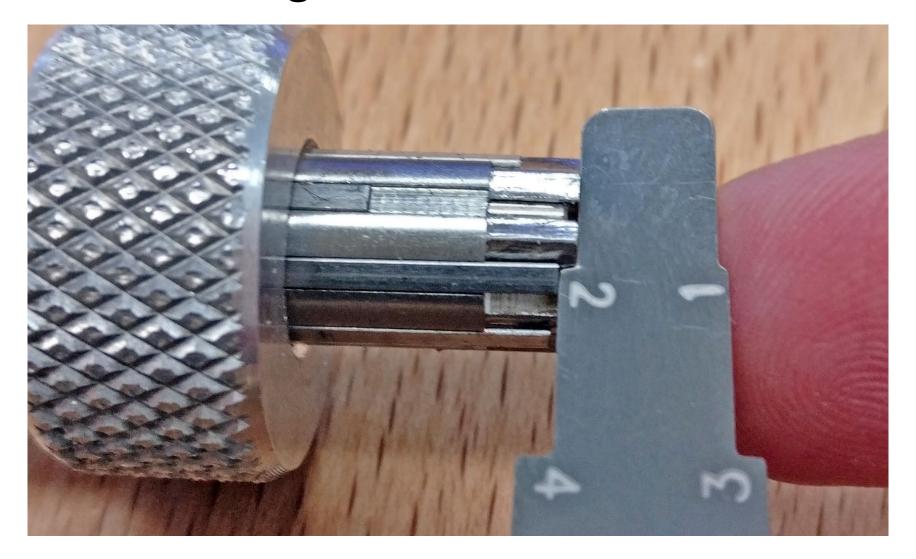




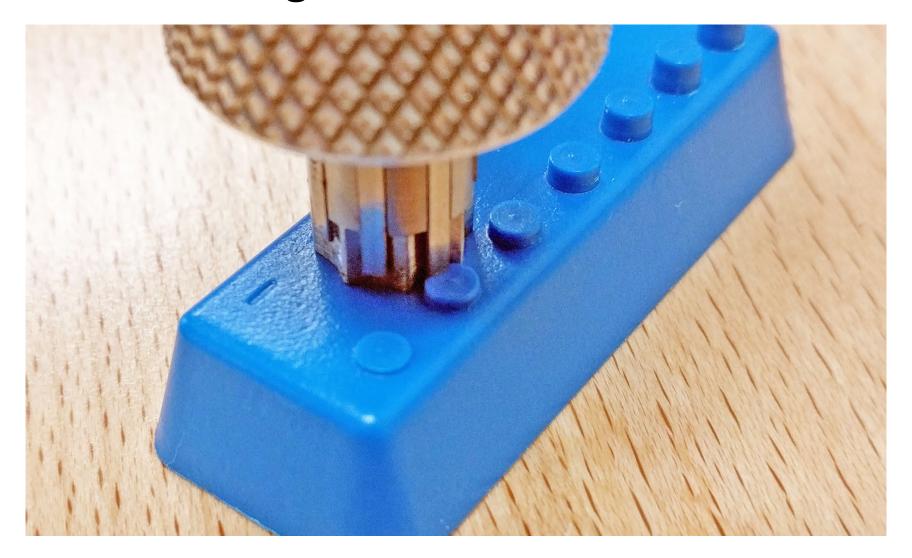




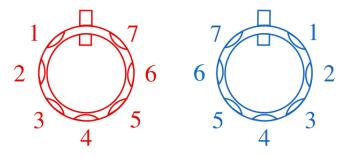












Chicago Ace		Fort Lock		Depth			Depth
same as	Depth	same as	Depth	same as	in inches	same as	in MM
	1		0		0.016		0.41
	2		1		0.032		0.81
	3		2		0.048		1.22
	4		3		0.064		1.63
	5		4		0.080		2.03
	6		5		0.096		2.44
	7		6		0.112		2.84
	8		7		0.128		3.25





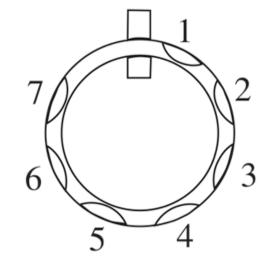
## **Offset Tubular**



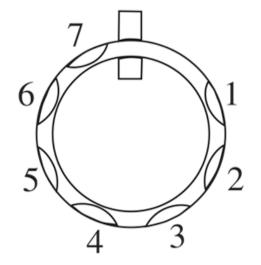


#### **Offset Tubular**

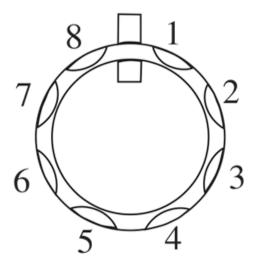
7-Pin Right Offset



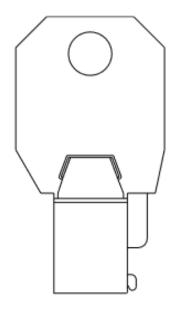
7-Pin Left Offset



**8-Pin Split Center** 



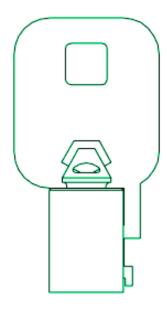
### **Tubular Blank Sizing**





OD .365" - 9.3mm ID .300" - 7.6mm (STEEL)

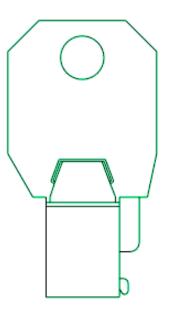
**1136S** 





OD .377" - 9.6mm ID .312" - 7.9mm (BRASS)

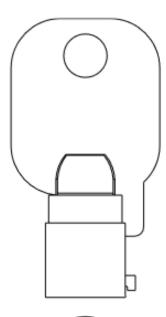
1137B





OD .377" - 9.6mm ID .312" - 7.9mm (STEEL)

**1137S** 





OD .399" - 10.1mm ID .329" - 8.4mm (STEEL)

L1137

### **Tubular Locks in the Field**





### **ESD Hardware**





### **ESD Hardware**





### **ESD Hardware**





# Locks Similar to Chicago Locks



# **CompX Turbine Lock**





# **Supra-C Axial Wafer Lock**





# Elevators

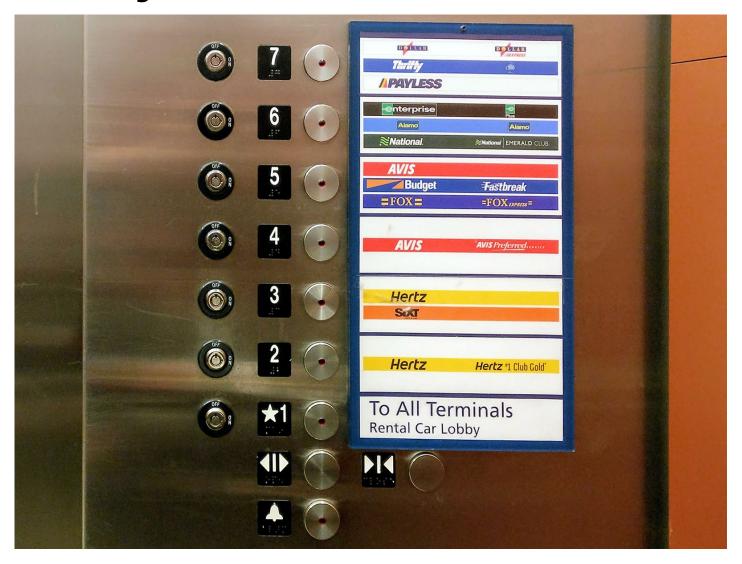


### **Elevator Security**



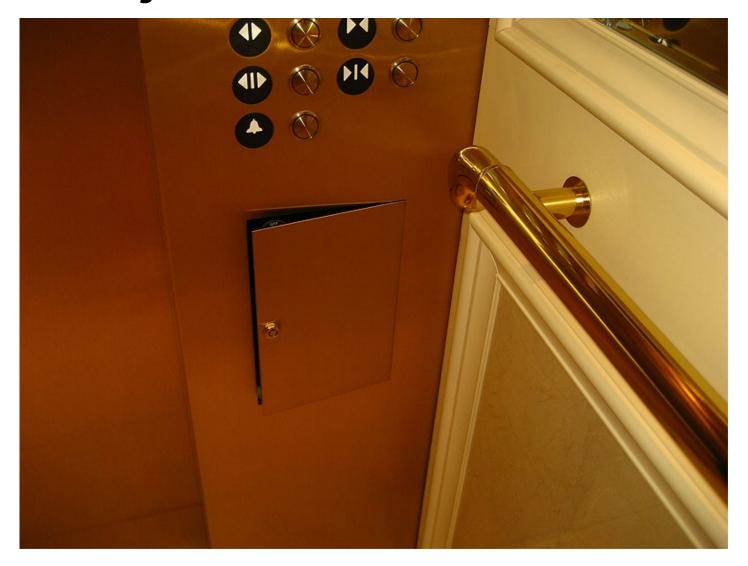


### **Elevator Security**





# **Elevator Security**





### **Special Elevator Functions**





# Fire Service Keys

Fire Service ·			
	6330	Payne / O Thompson	uncommon FS
	27379	CJ Anderson	Fire Service
	A03	Montgomery-KONE	Fire Service
	AS100	Schindler	Fire Service
	AZFS	AZ state	Fire Service
	BFD1	CT state	Fire Service
	EPCO2	EPCO	Locked Panel & Fire Service
	EX515	Innovation	Fire Service
	FEOK1	Generic, many states	super generic Fire Service
	FS	Medeco	R63 GAL Fire Service
	G1617P	GAL	Fire Service
	H2252	Dover	Fire Service (rare)
	H2389	Dover	Fire Service
	H341	Schindler	Fire Service
	HW1002	ERM	Fire Service
	J217	Monitor / Janus	Fire Service
	K3	KONE	Fire Service
	L204	Thyssen	Fire Service, Code Blue, Emerg Power
	M702	CJ Anderson	Fire (general)
	MFD1	Generic & Innovation	Fire Service
	MK05	Montgomery-KONE	Fire Service
	PTFS	Praise the Lord	Fire Service
	SC1000	SC state	Fire Service
	T102	CJ Anderson	Fire (NEMA 79 hazardous locations)
	USE1	USE	Fire Service
	UTF	Otis	Fire Service
	WD01	Adams	Fire Service
	Yale 12135	USE Square Fixtures	Fire - Y1 bitted 1-2-1-3-5
	Yale 14398	Armor	Fire - Y1 bitted 1-4-3-9-8
	Yale 255	White Plains & Yonkers	Fire - Y1 bitted 7-3-7-3-0
	Yale 2642	NYC	Fire - Y1 bitted 2-6-4-2-0
	Yale 3500	Armor	Fire Service
	Yale 3501	Armor	Fire Service
	Yale 3502	NJ NH MA	Fire - Y2 bitted 0-3-2-3-4-8

# **Knowing Which Key to Use**



# **Knowing Which Key to Use**





### The FEO-K1 Key

### ASME A17.1 (2007): Safety Code for Elevators & Escalators

#### 2.27.8 Switch Keys

The key switches required by 2.27.2 through 2.27.5 for all elevators in a building shall be operable by the same key. The keys shall be Group 3 Security (see 8.1). There shall be a key for each switch provided. These keys shall be kept on the premises in a location readily accessible to firefighters and emergency personnel, but not where they are available to the public.

This key shall be of a tubular, 7 pin, style 137 construction and shall have a bitting code of 6143521. The key shall be coded "FEO-K1."

The possession of the "FEO-K1" key shall be limited to elevator personnel, emergency personnel, and elevator equipment manufacturers. Where provided, a lock box, including its lock and other components, shall conform to the requirements of UL 1037 (see Part 9).

NOTE (2.27.8): Local authorities may specify additional requirements for a uniform keyed lock box and its location to contain the necessary keys.

### The FEO-K1 Key



Home Shop About Contact

Q





FEO-K1

\$10.00

In stock: 10 available

Quantity: 1

#### Add to Bag

#### **Product Details**

The ubiquitous elevator key makes its way to HooliganKeys! The most common elevator key in the USA!

Share this product with your friends





### The FEO-K1 Key: Directly on the Car Panel



# The FEO-K1 Key: Inside Fire Service Panel



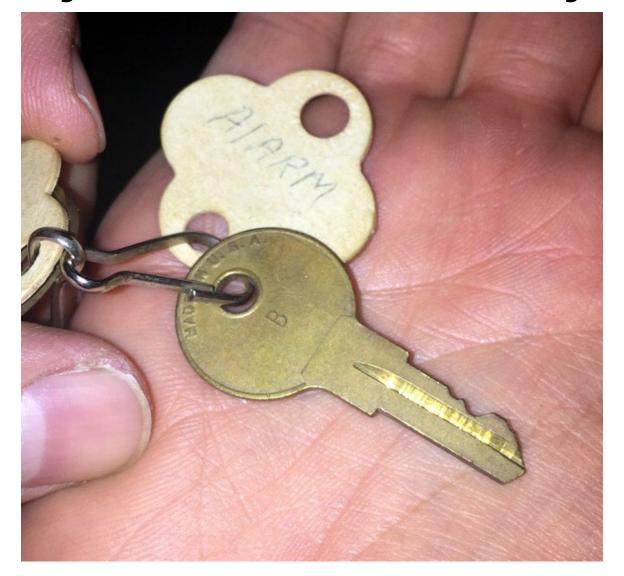
### The FEO-K1 Key: Other Implementations



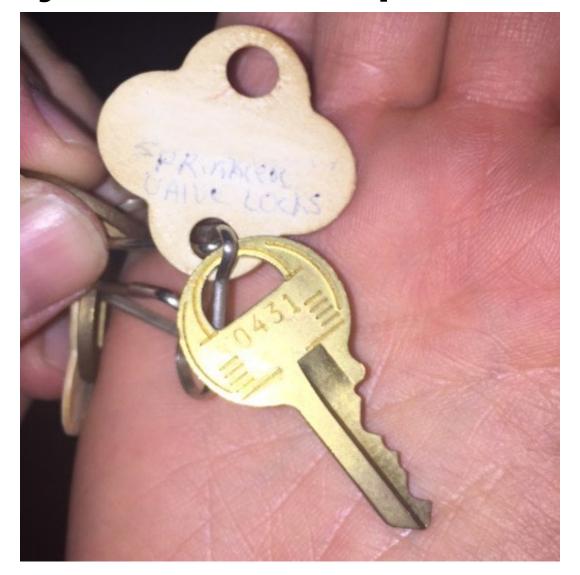
### The FEO-K1 Key Led To: The Building Fire Key

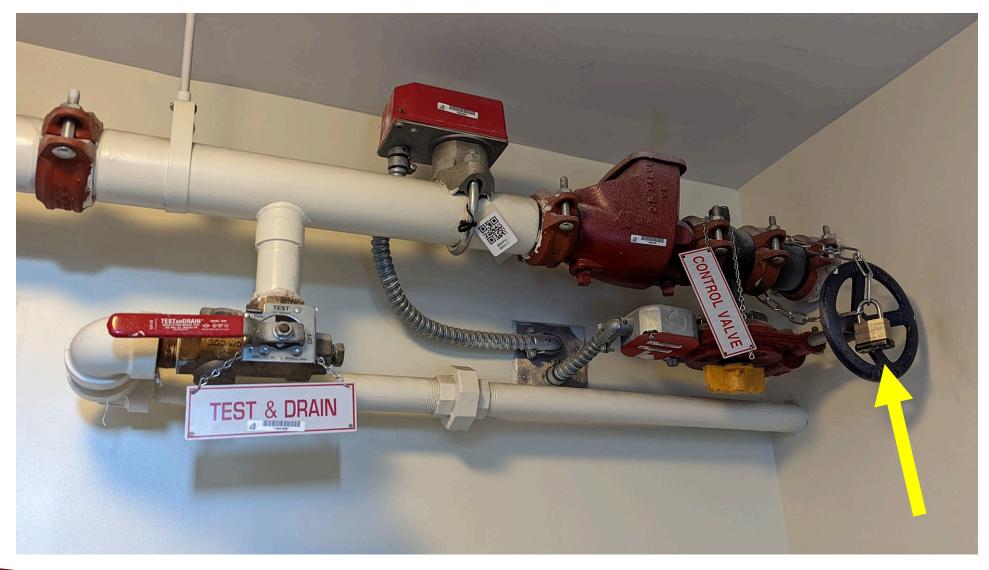


### The FEO-K1 Key Led To: The FACP Key

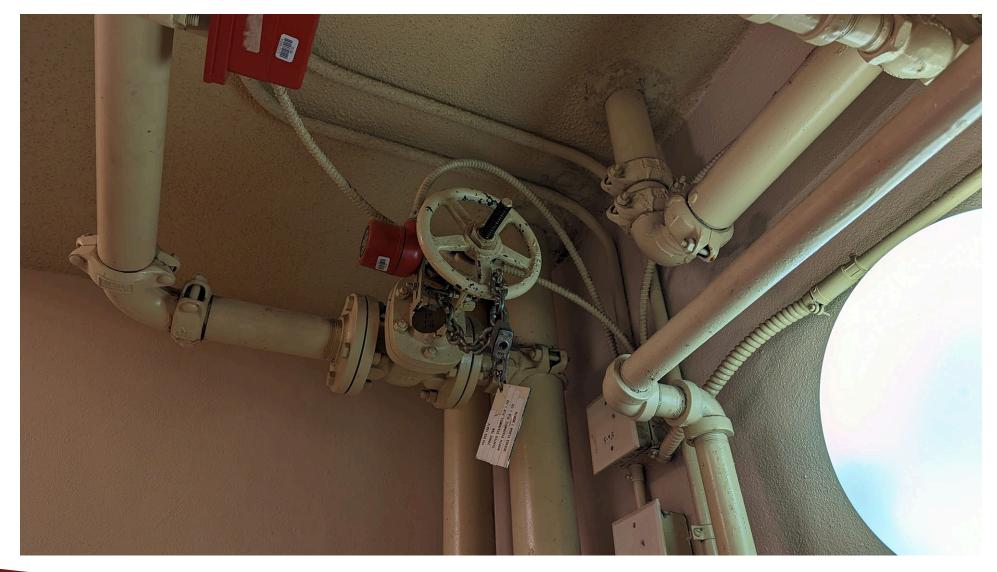


### The FEO-K1 Key Led To: The Sprinkler Valve Key















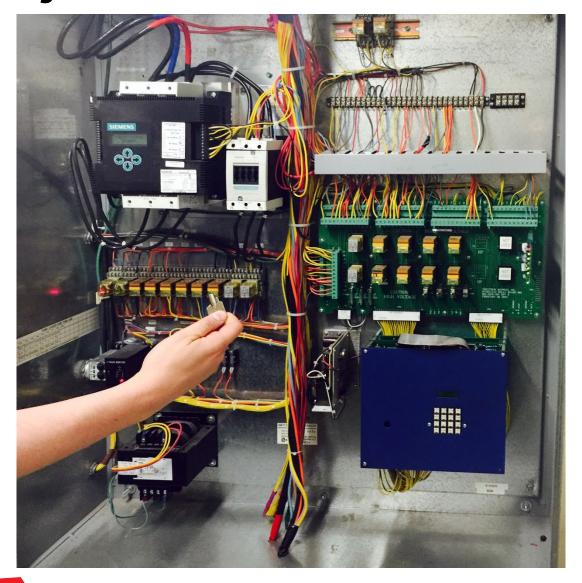




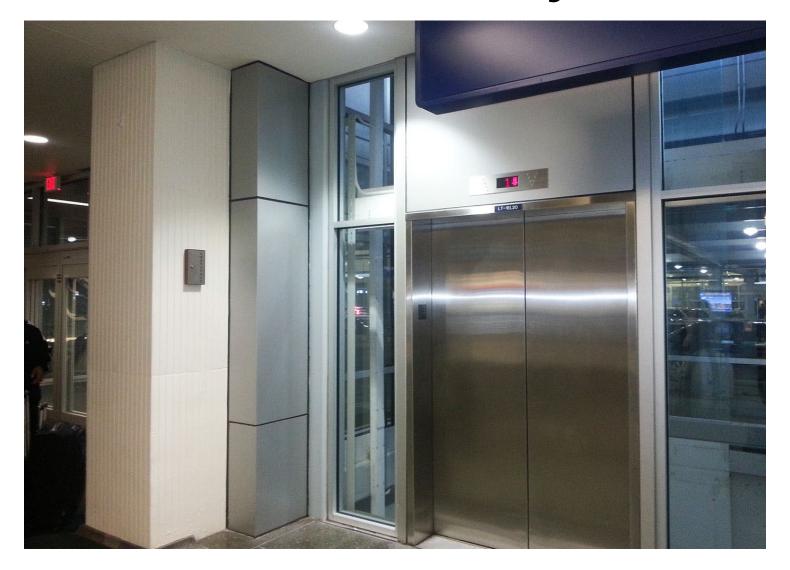




### The FEO-K1 Key Led To: The Elevator Controller



### You Will Notice These Boxes Everywhere





### You Will Notice These Boxes Everywhere



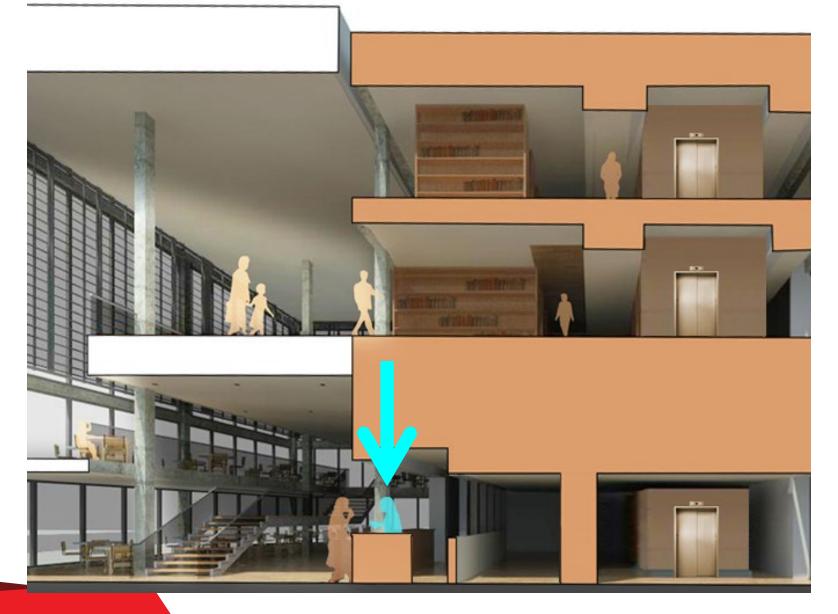










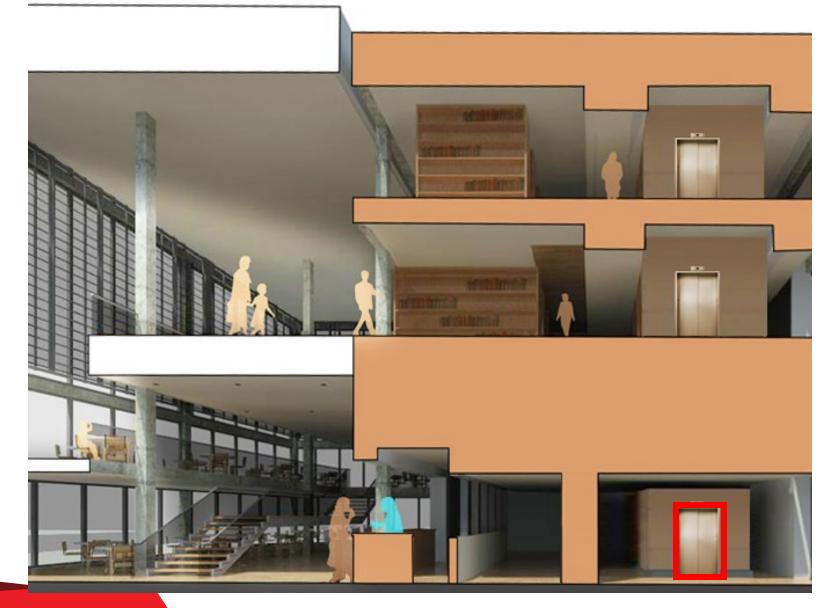




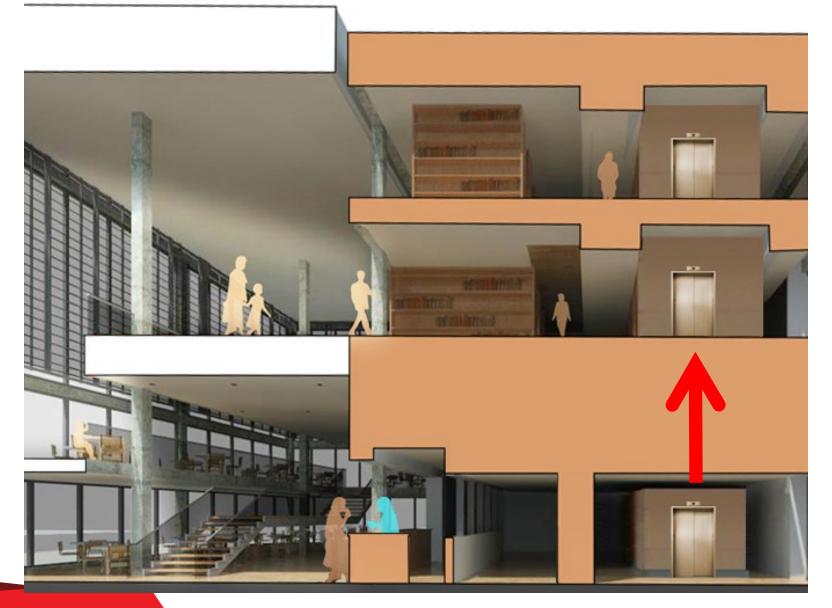






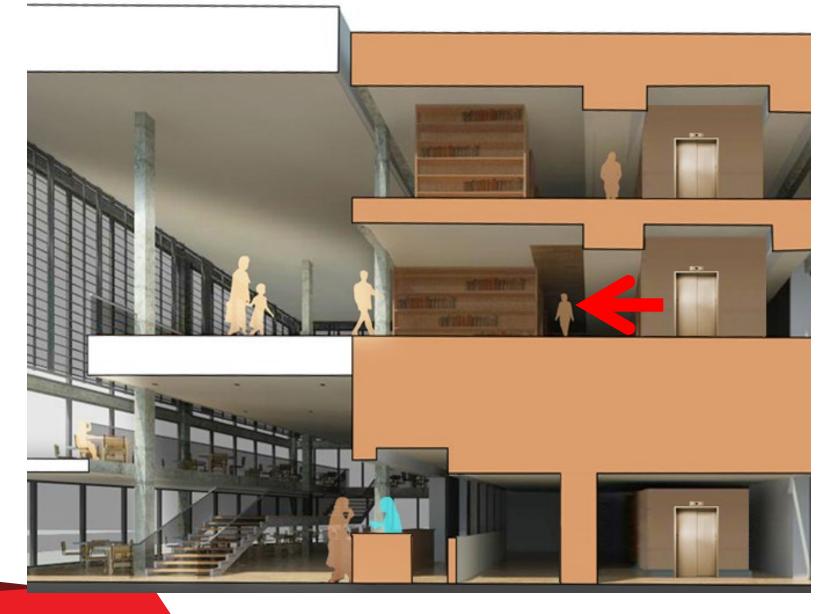




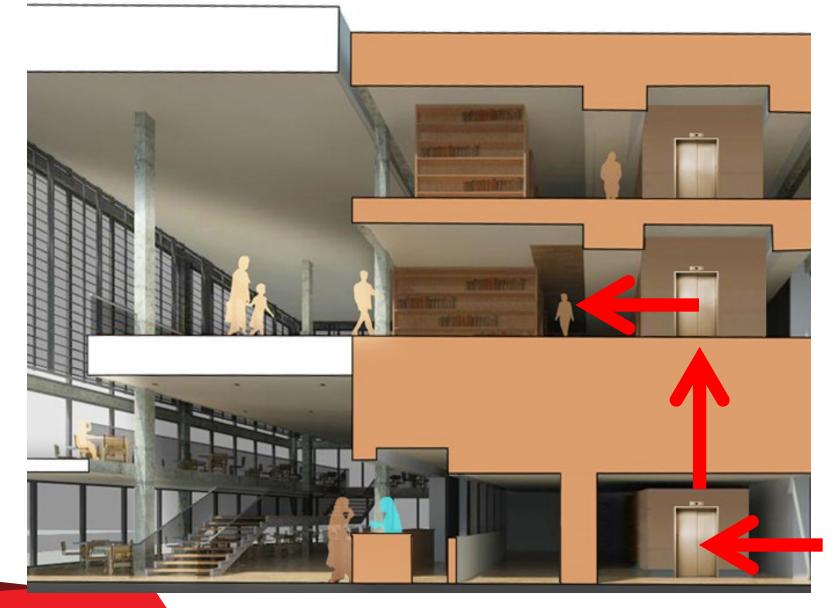


















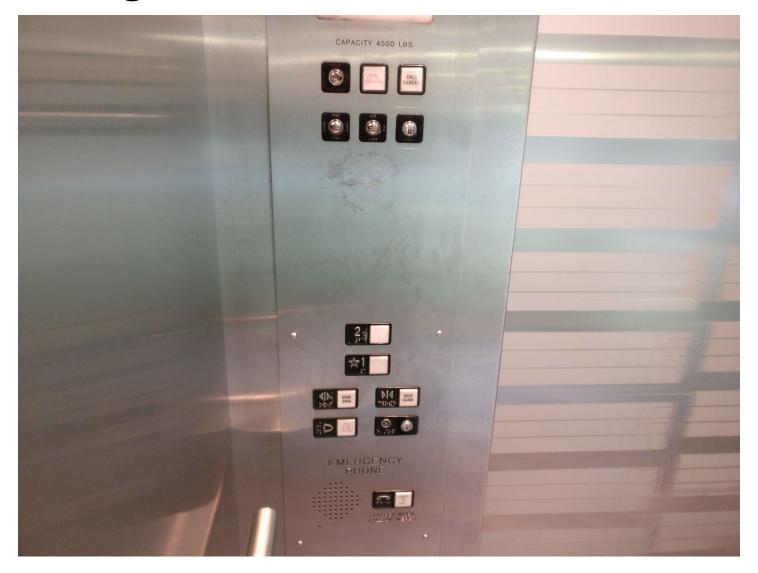


















## Plenty of Other Airports Out There, However

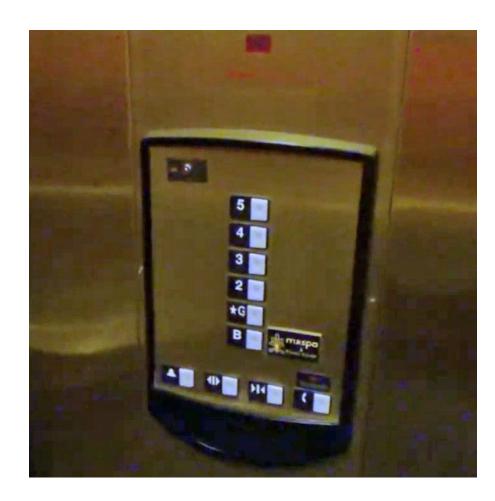




## Plenty of Other Airports Out There, However





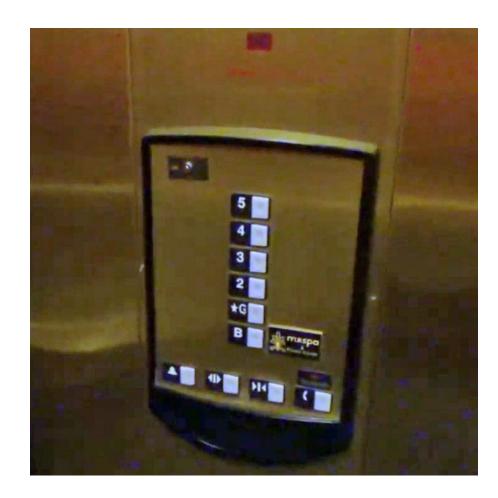


"The Colorado Springs Fire Department (CSFD) confirms that it responded to a call for service Friday, July 29 to perform an elevator rescue for approximately ten people trapped inside an elevator, including Presidential Nominee Donald Trump. A fire truck arrived at The Mining Exchange—A Wyndham Hotel & Spa, 8 South Nevada Avenue, Colorado Springs, Colo and found the elevator stuck between the first and second floors. The firefighters were able to secure the elevator, open the top elevator hatch, lower a ladder into the elevator which allowed all individuals to self evacuate, including Mr. Trump, onto the second floor lobby area. No injuries were reported."

Denver7 requested emails between the Colorado Springs Fire
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This quote, taken directly from that email, detailed what really happened
inside the elevator.

"Thanks for the support... it was funny. You have likely heard more about the elevator fiasco. Turns out someone (Secret Service or his entourage) had an elevator bypass key.. they (one of them) turned it off between floors and didn't know how to get it back on.. our folks went and fished them out... elevator guys get there and say what the crap? Who turned this off? Turned it back on and voila."



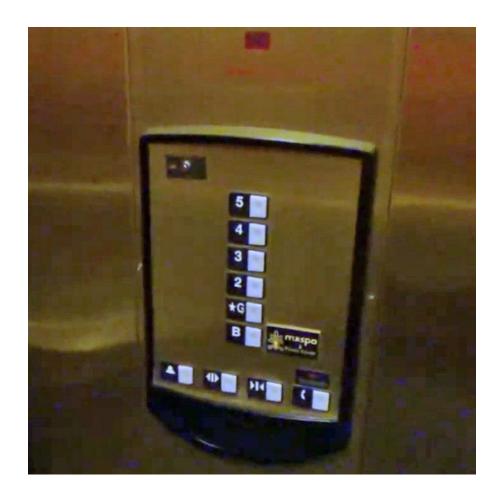


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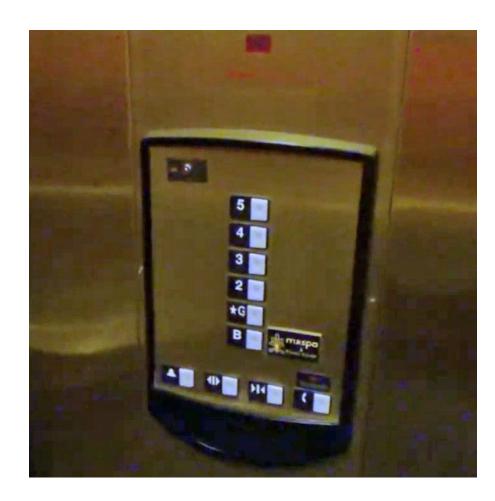


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## So Can You Never Safely Use Fire Keys?





## One of the Best (And Safest) Fire Key Uses





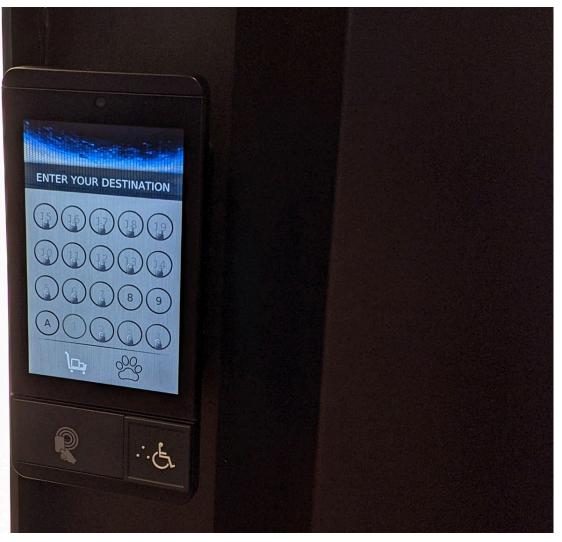






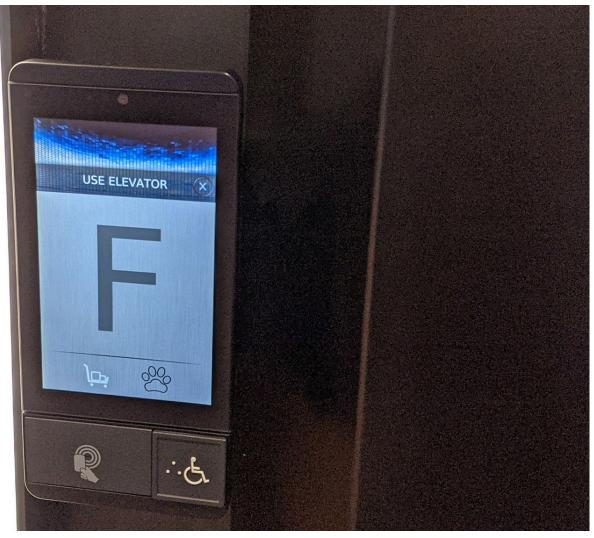


















## The C.O.P. Has Very Few User Controls

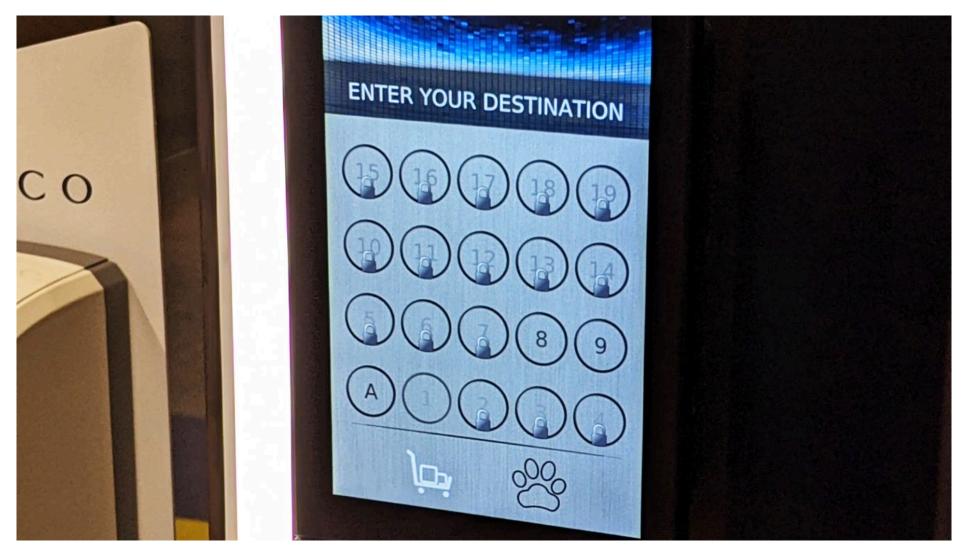




## The C.O.P. Has Very Few User Controls

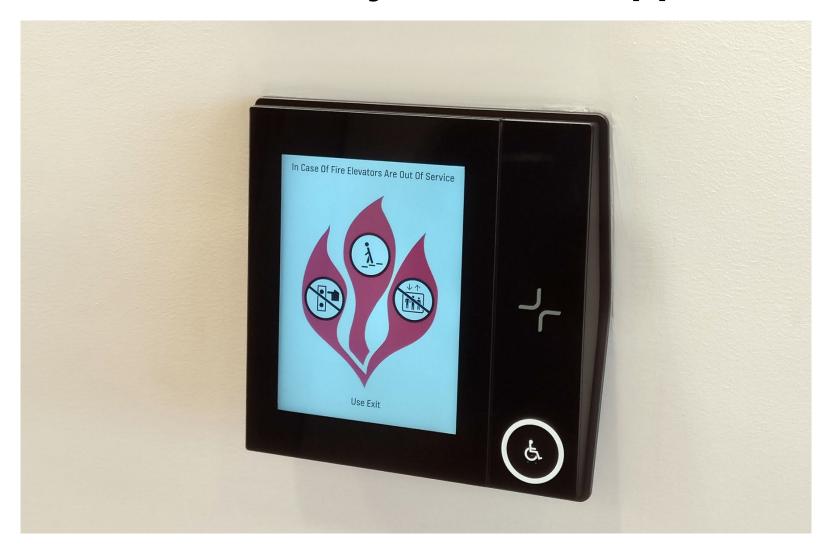


## **Destination Dispatch Security and Lockouts**





### **But What Does Almost Every Elevator Support?**

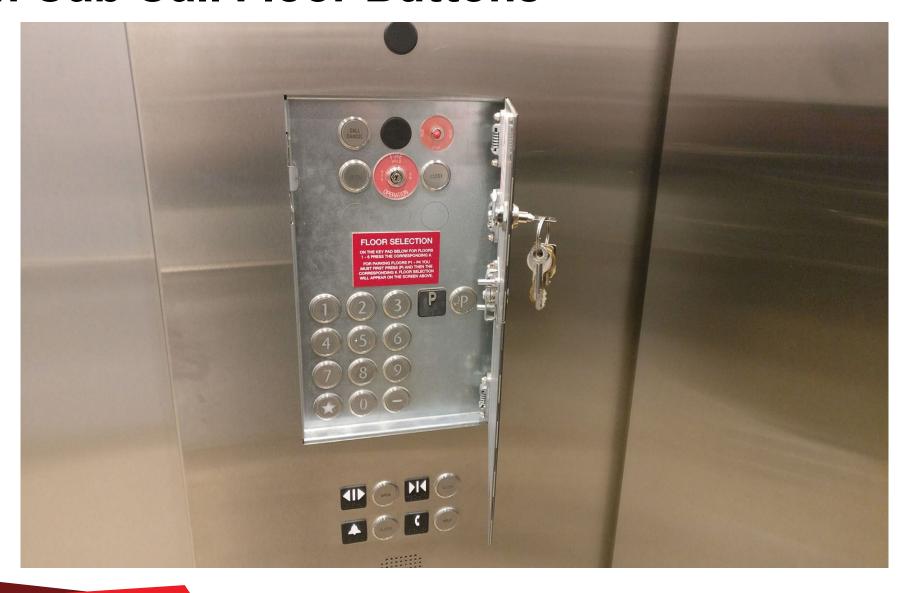




## **Look Again at the Car Operating Panel**





















# A Note About Social Engineering



## "Just Look Like You Belong There"



#### **Have a Few Generic Blue Collar Outfits**





# Polo Shirt Can Work as "Specialized Technician"





#### **Accessories can Sell Your Outfit/Persona**



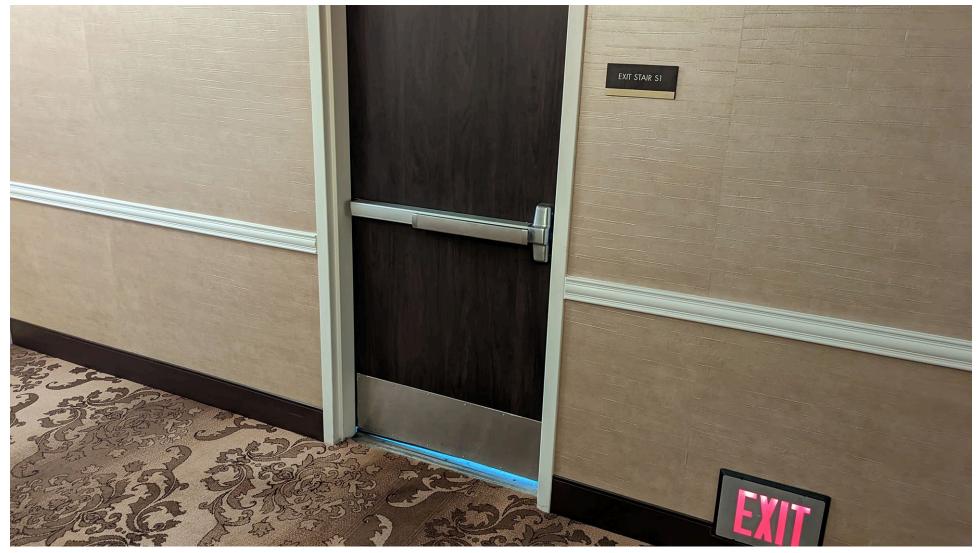


#### **Accessories can Sell Your Outfit/Persona**

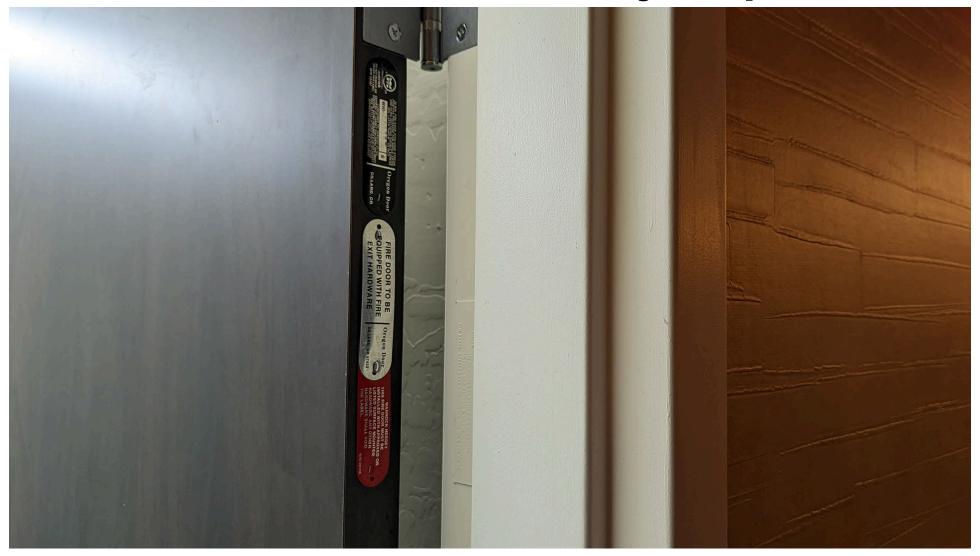












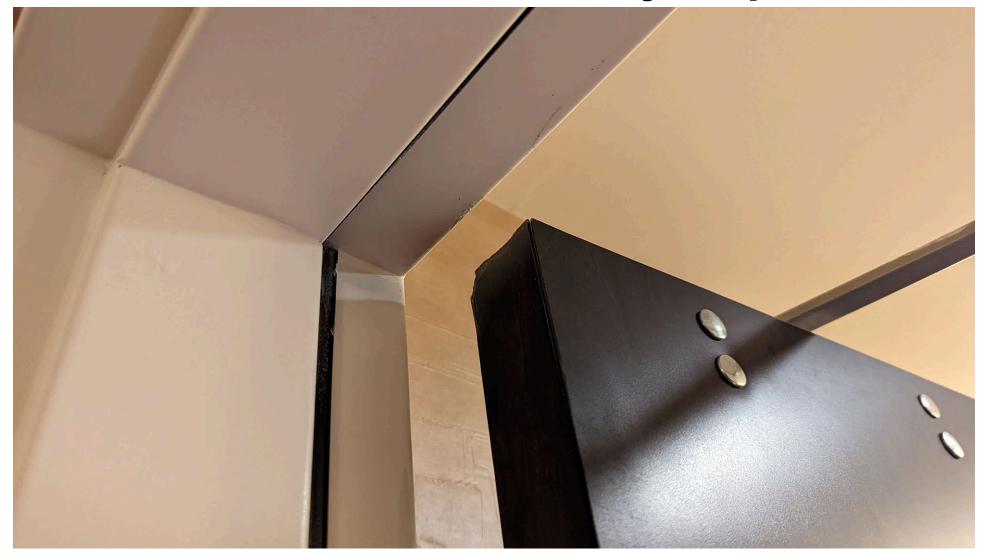




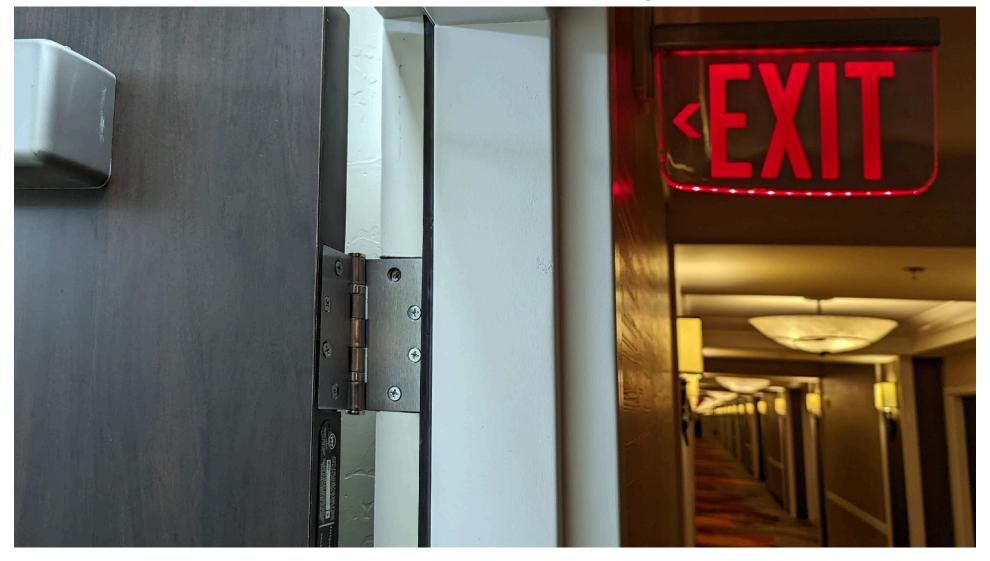




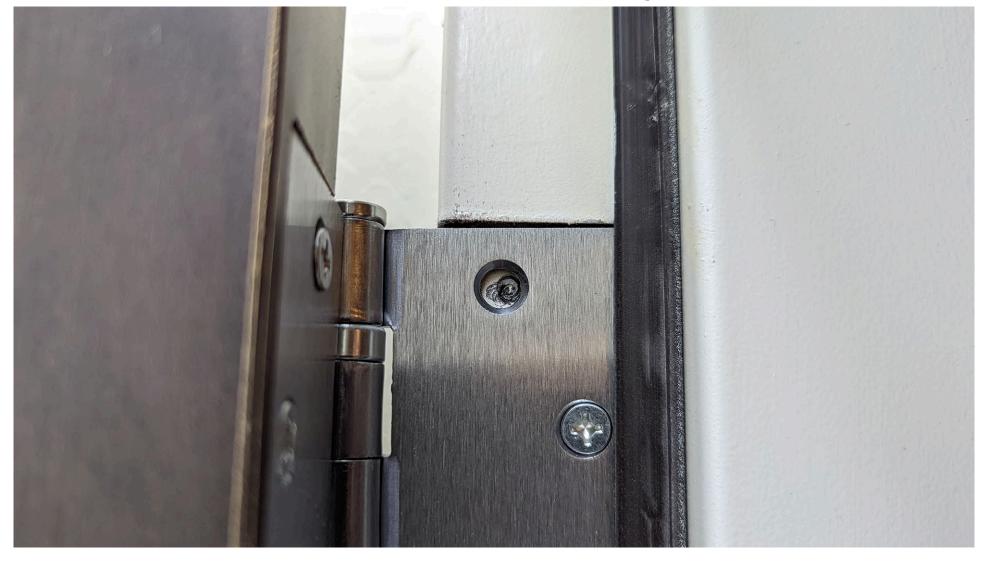














# The Elevator Repair Story





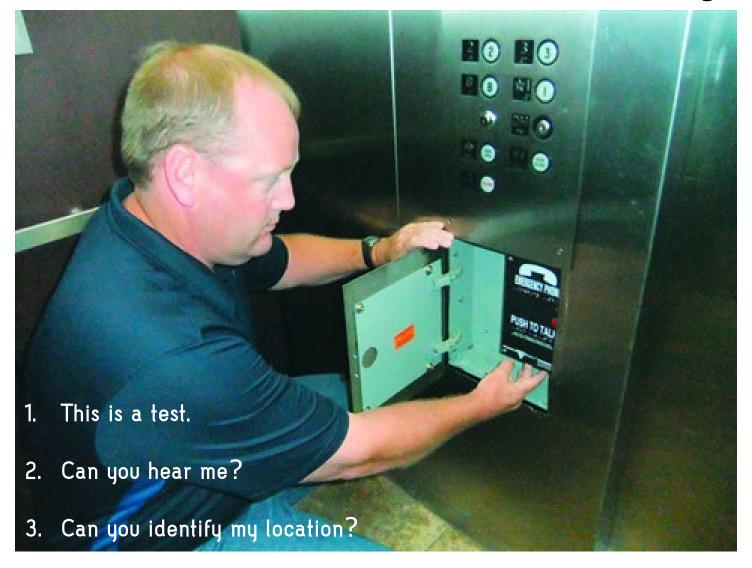












## "Identify My Location" is the Killer

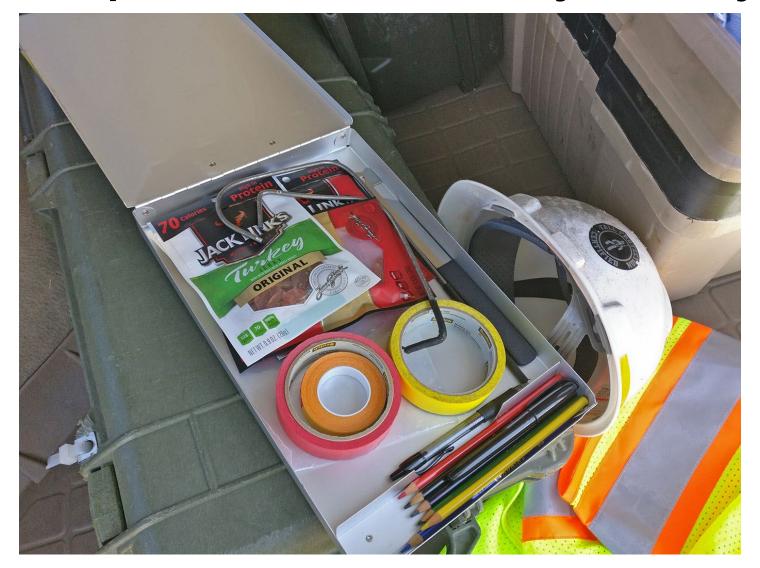










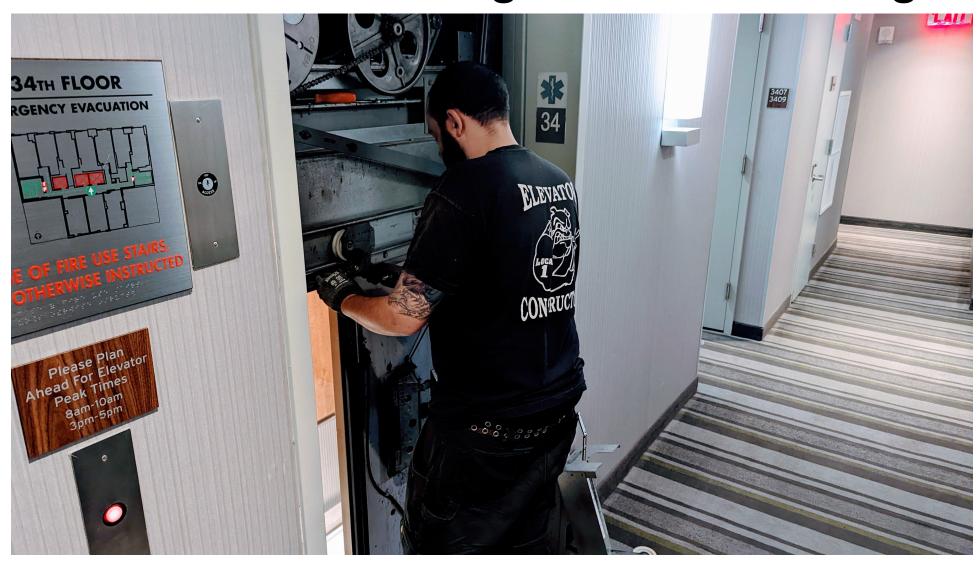






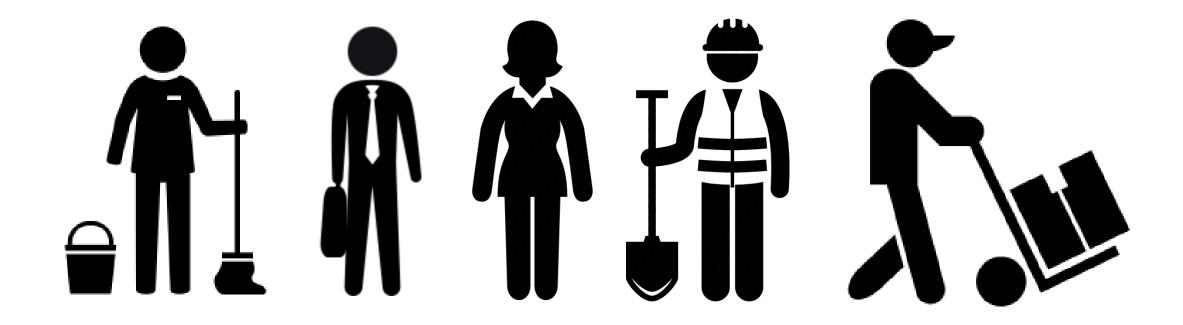


## **Another Pretext: "Checking Elevator Leveling"**





## "Look Like You Belong There"





# **Preliminary Recon**





# **Preliminary Recon**





## "Look Like You Belong There"























#### "What if Someone Asks for ID?"



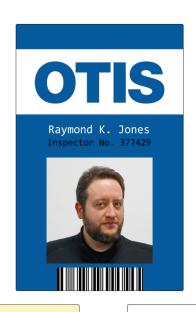


## **Security Testing Credentials**

















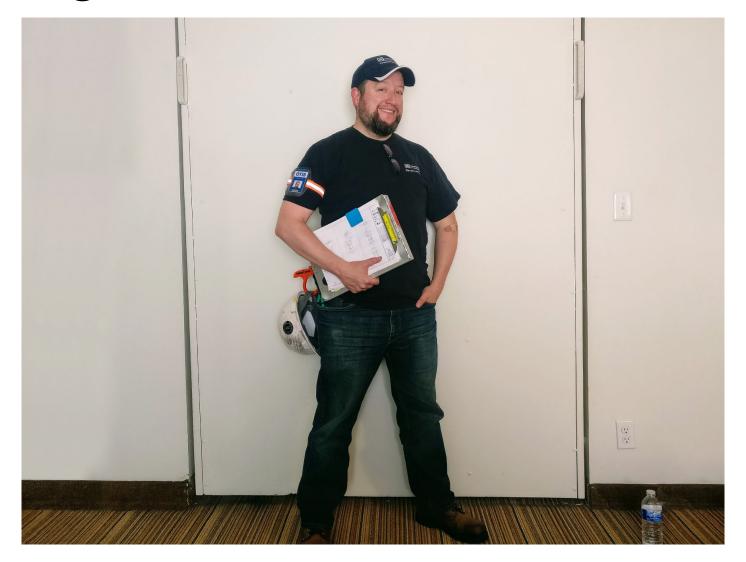
# **Badge Printers**



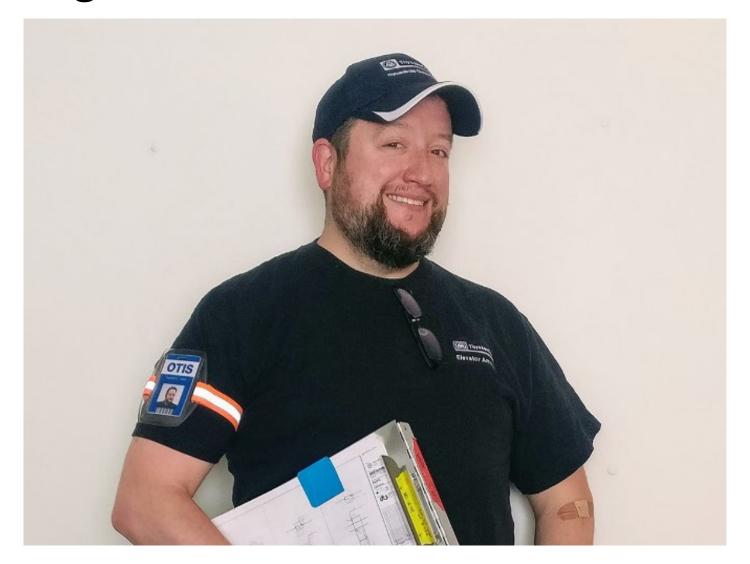


















# **Badge Printing for Red Teamers**



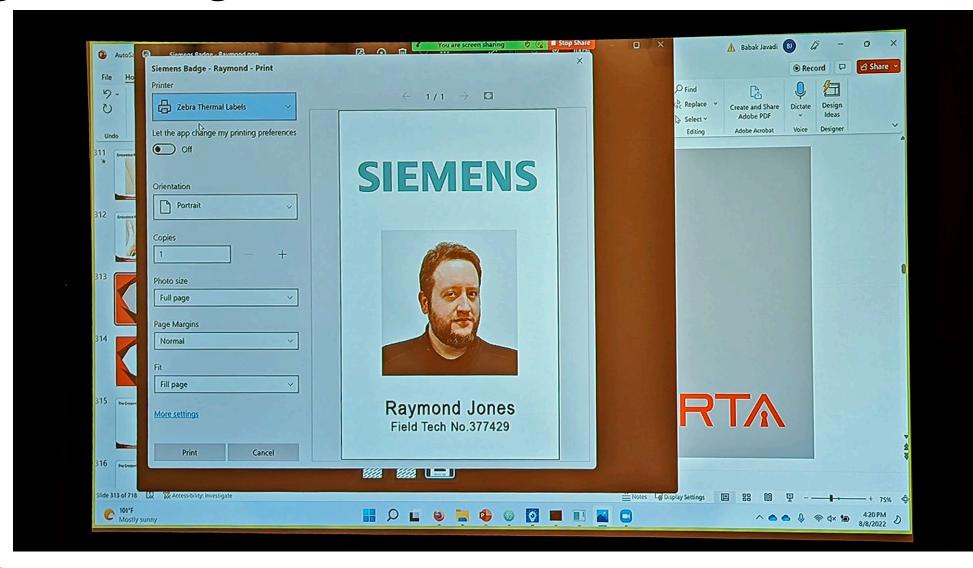


# **Badge Printing for Red Teamers**





### **Badge Printing for Red Teamers**





# **Badge Printing for Red Teamers**





# "Look Like You Belong There"





# "Look Like You Belong There"





### So We Were in the Building...



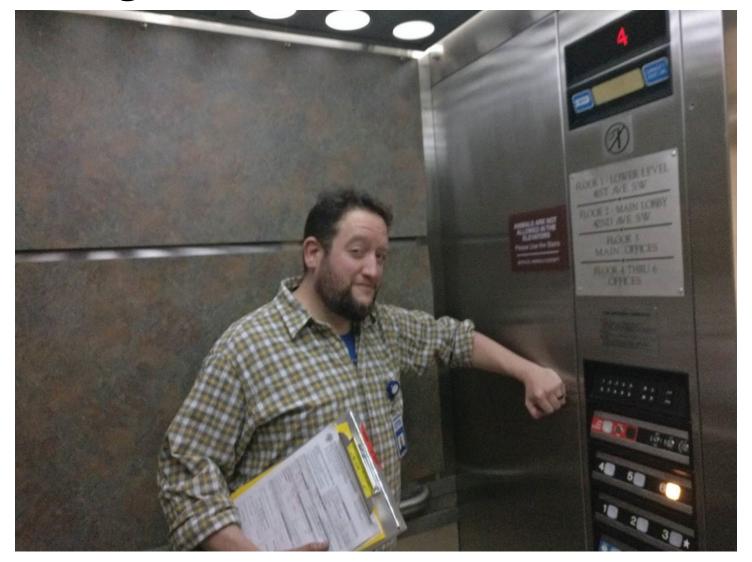


### **Teammate Had to Go Back to Hotel**





# I've Got Nothing But Time





### I've Got Nothing But Time





# Things at the Hotel Were Going Slowly



# Things at the Hotel Were Going Slowly





### Things at the Hotel Were Going Slowly





# Then I Nearly had a Heart Attack





### I Figured it Must Be The Cleaners



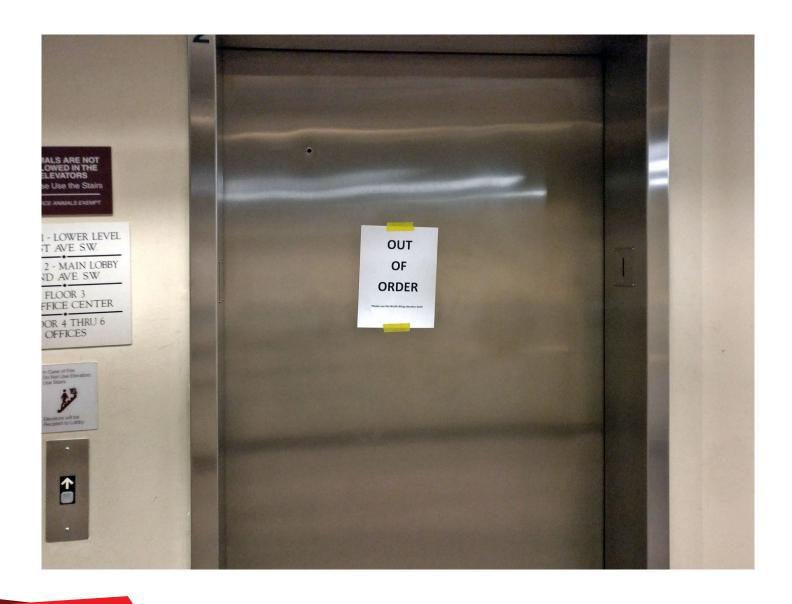


# It Wasn't





### It Wasn't

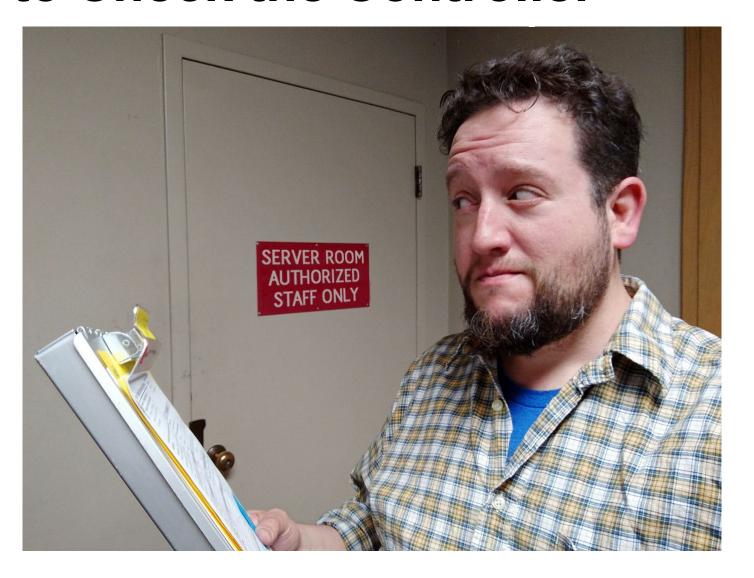




### Fortunately, I'm a Friendly Elevator Tech



### "I'll Have to Check the Controller"



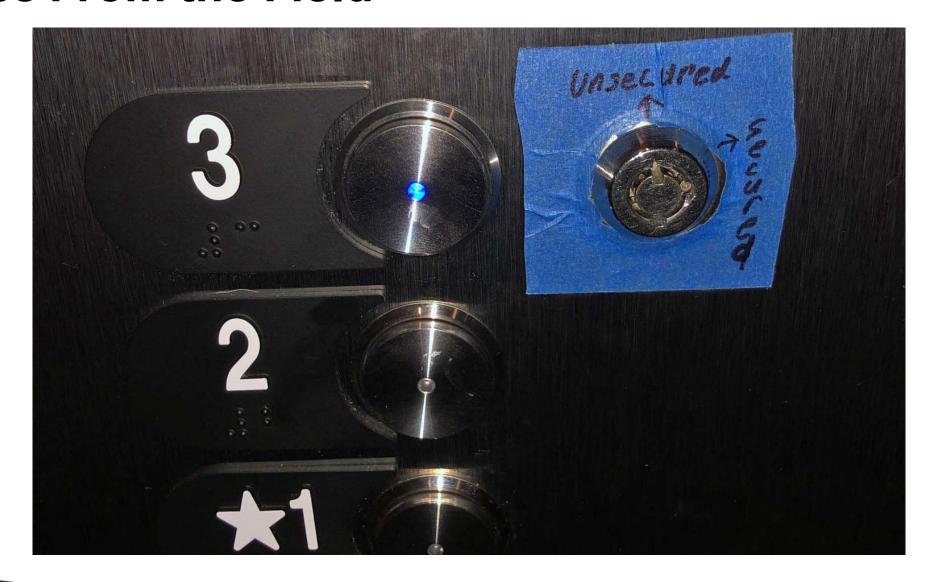


# **Everyone Wants to Keep Elevators Working**



# Other Scenes From the Field











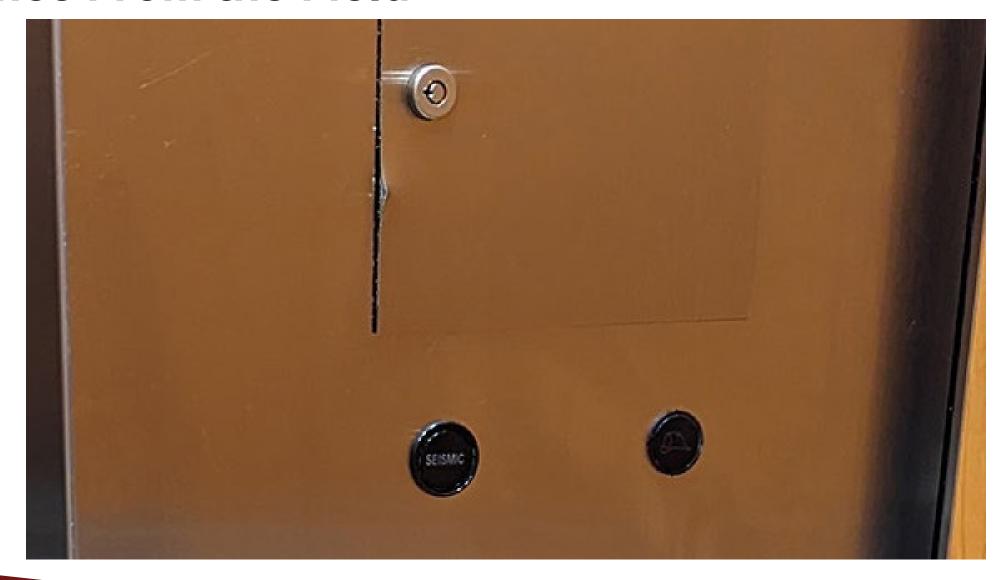




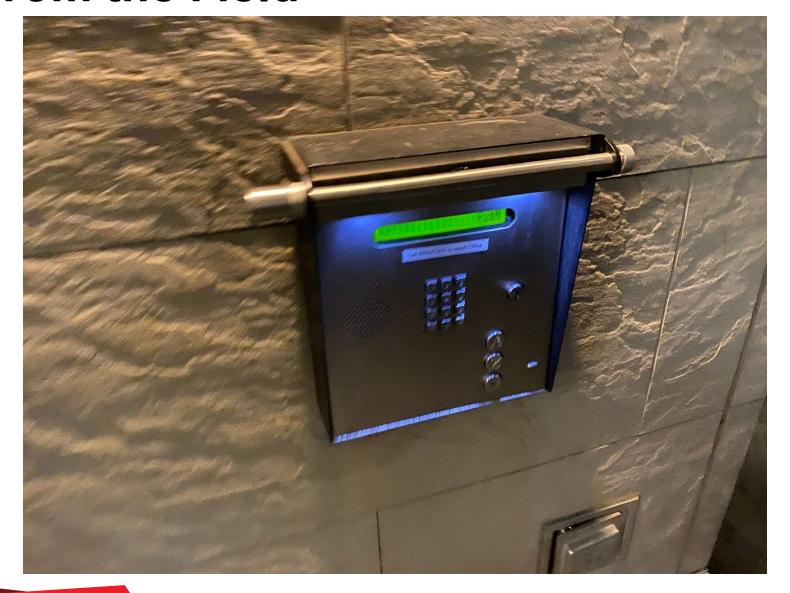




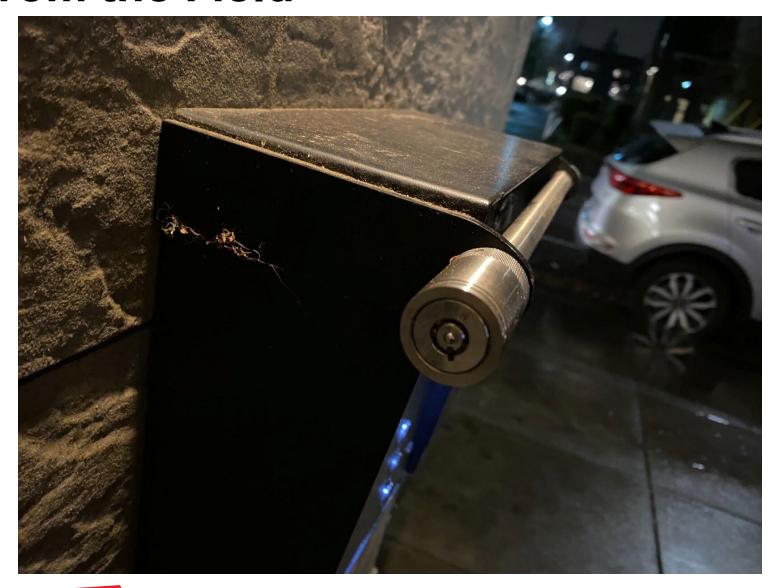




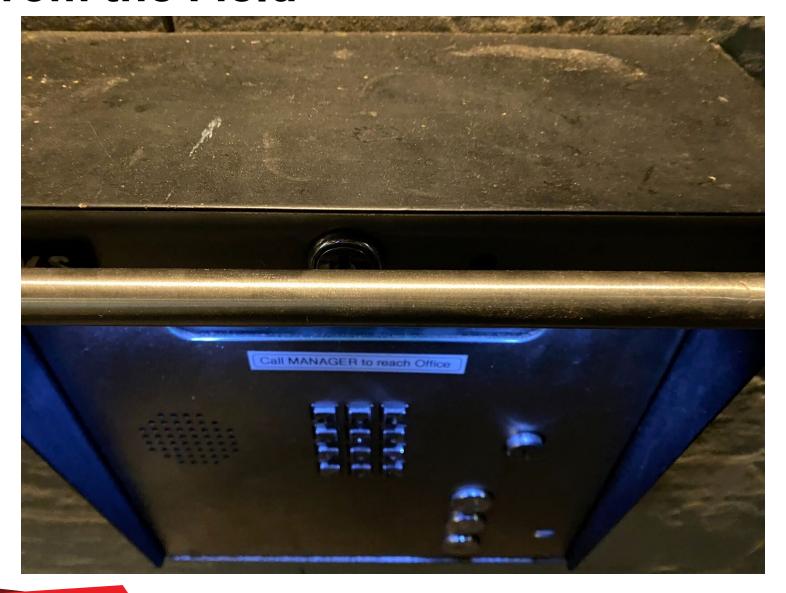














# **Producing Keys**







# **Duplication vs. Origination**





# **Key Duplication**



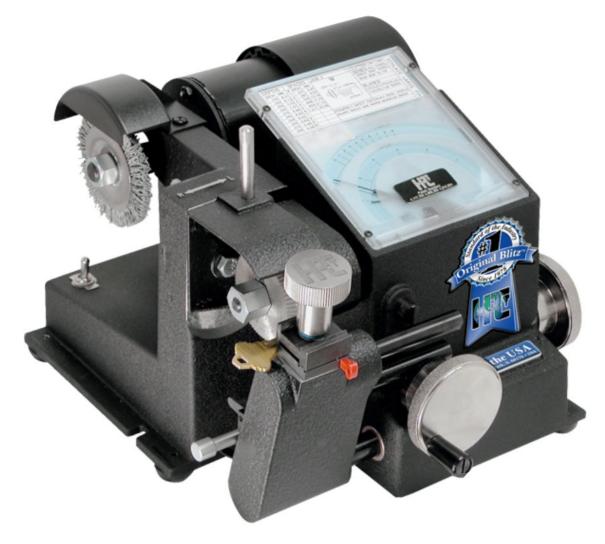


# **Key Origination**

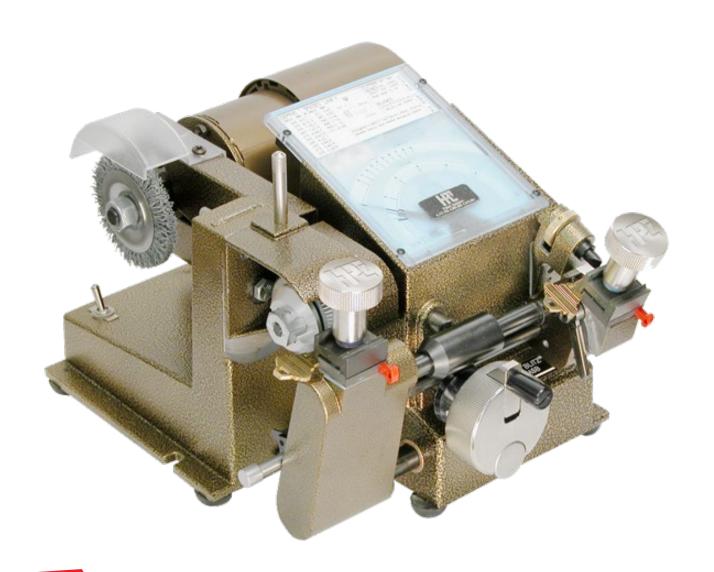




# **Key Origination: HPC Blitz**



### **Key Origination & Duplication: HPC Switch Blitz**



# **Key Origination: HPC Punch**

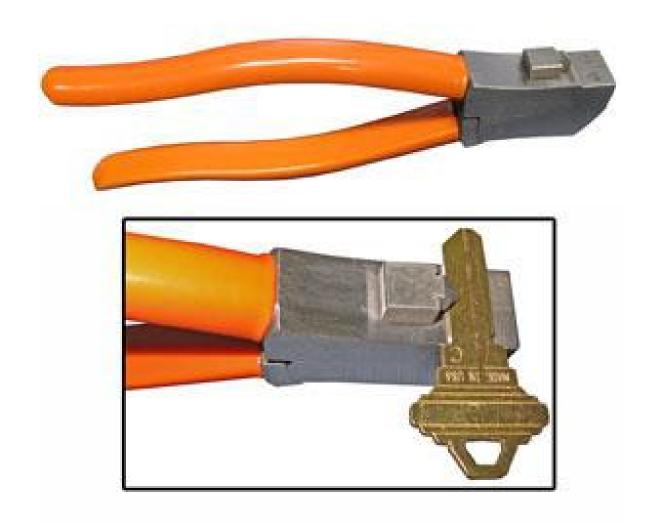


## **Key Origination: Pro-Lok Blue Punch**



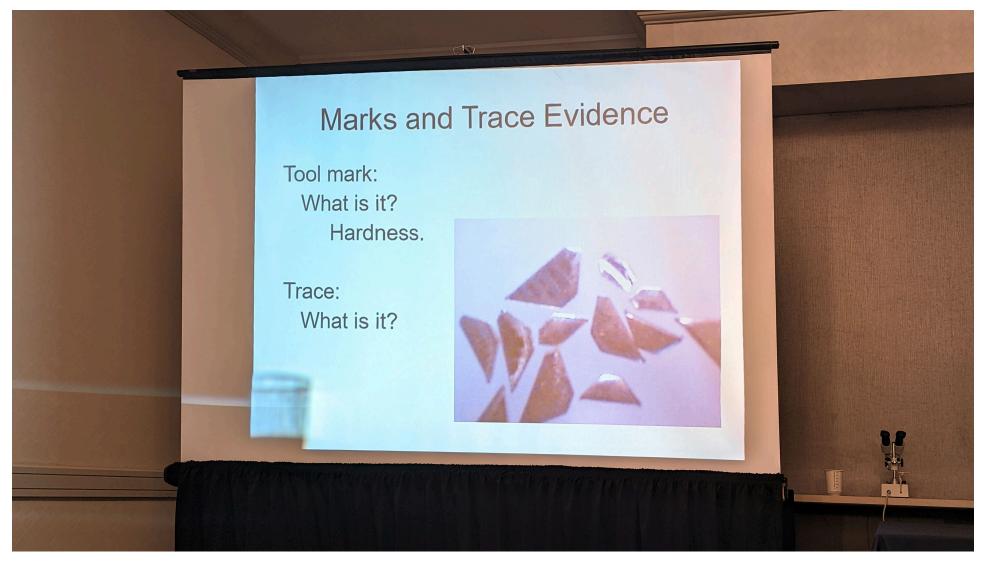


# **Key Origination: Lishi Key Cutter Pliers**





#### Covert, Surreptitious, or Clandestine?





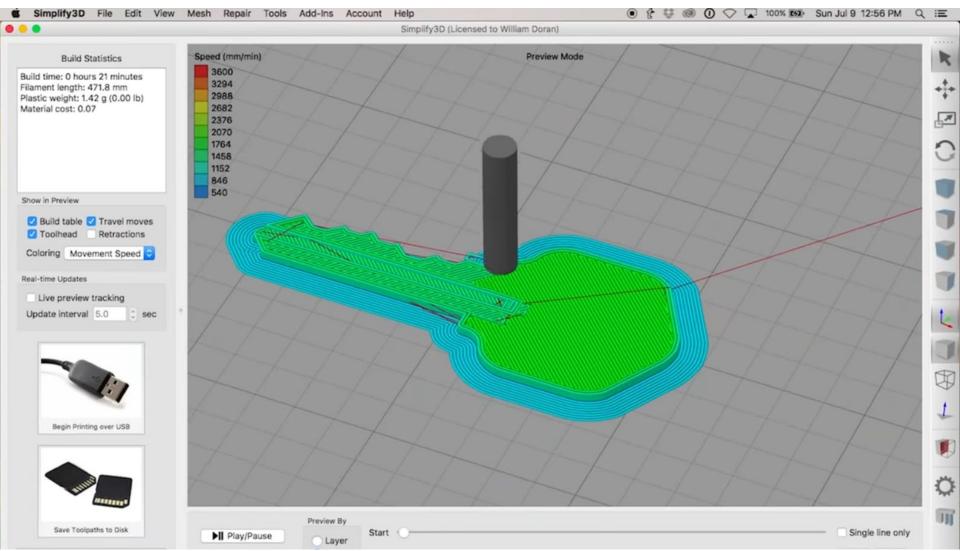
# **Key Origination**







# **Key Origination: 3D Printing**





# **Key Origination: 3D Printing**

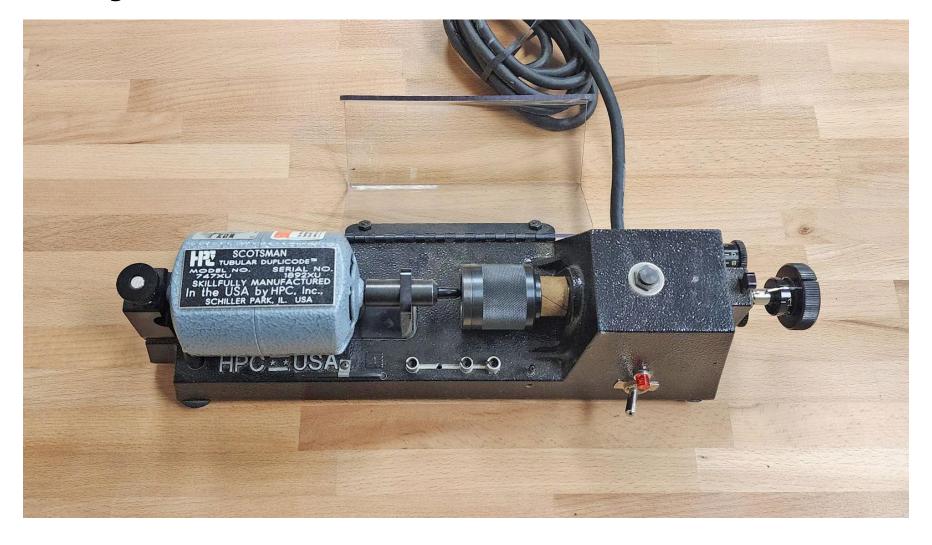




# How Do You Produce Tubular Keys?

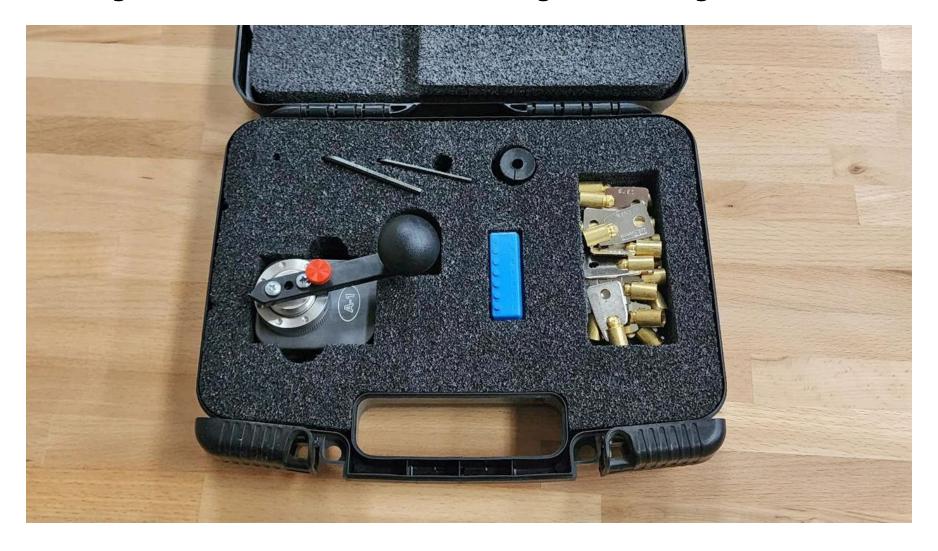


## **Tubular Key Production: HPC Scotsman**





# **Tubular Key Production: Hurdy-Gurdy**





# **Tubular Key Production: Hurdy-Gurdy**











SHOP BY CATEGORIES \* LOCK ENTRY TOOLS

LOCKSMITH TOOLS

**KEY MACHINES** 

**KEY BLANKS** 

**EDUCATIONAL** Books, Videos, Software

Locks & Lock Hardware

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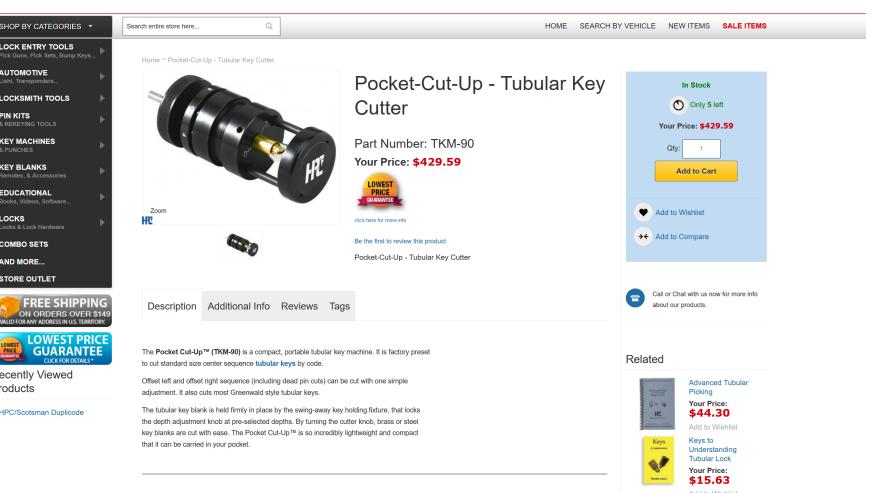
> HPC/Scotsman Duplicode

**Products** 

COMBO SETS

AND MORE... STORE OUTLET

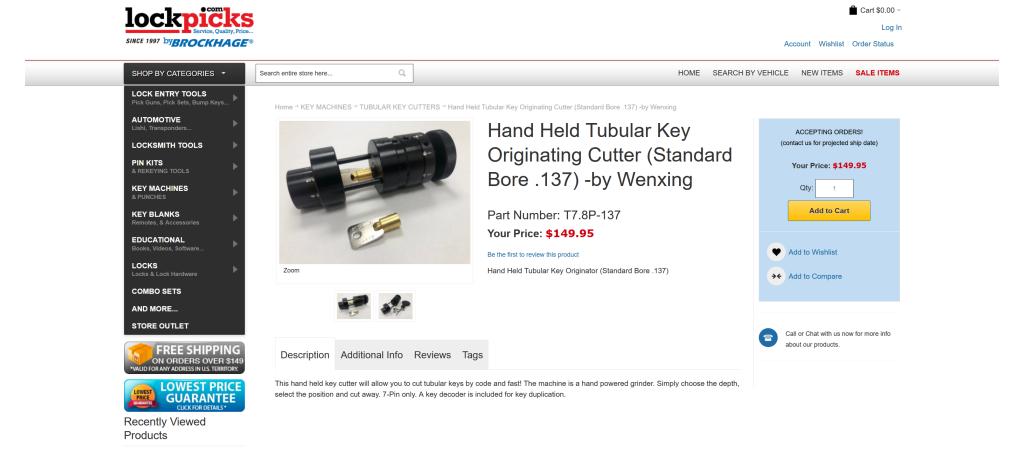
LOCKS



Cart \$0.00 Log In

Account | Wishlist | Order Status

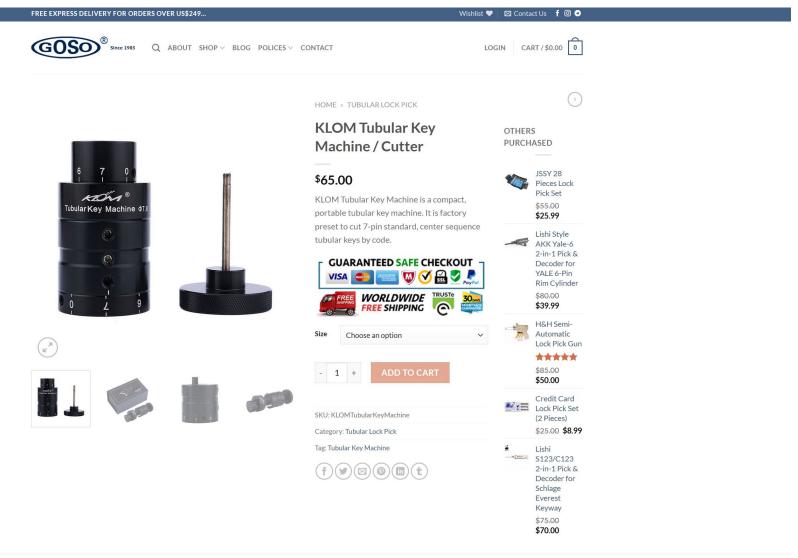






> Pocket-Cut-Up - Tubular Key

> HPC/Scotsman Duplicode

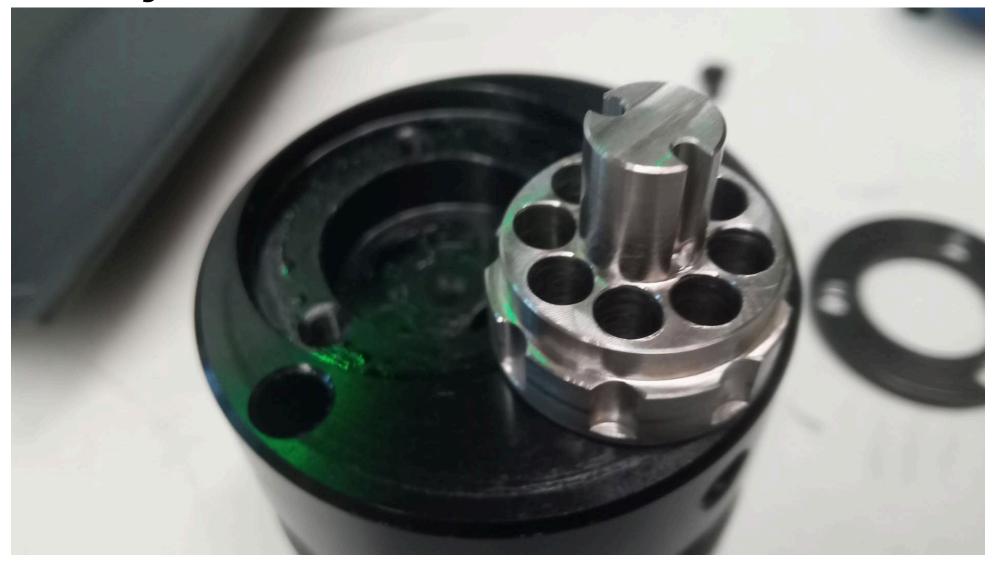


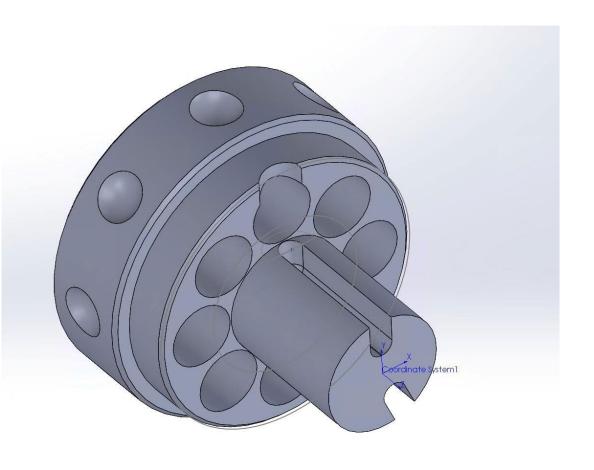
























# Hanging Out After This...



#### **The Fort Lock Gematic**





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