	<b>Cincinnati Fire Department Fire Training Supplement DRILL BOOK</b>	<b>SECTION #1 General Fire Fighting</b>
Date: April 2018	<b>TOPIC TITLE:</b>	Total # of Pages: 4
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***Exerpts from FDNY Forcible Entry Manual***

**HYDRAULIC TOOLS**

These tools are designed for **doors that open inward** (away from you), and have also been used successfully on **sliding elevator doors**. They work best on doors with **strong metal frames**.

These tools are quite easy to use. The two most popular models are quite different in design. One type, The Rabbit Tool, is a two piece unit, consisting of a spreader and a pump. They are connected with a short length of high-pressure hose. The second type is a one-piece unit that incorporates the pump and spreader together. Equally effective they have found a solid footing in the fire service.



**Hydra-Ram**



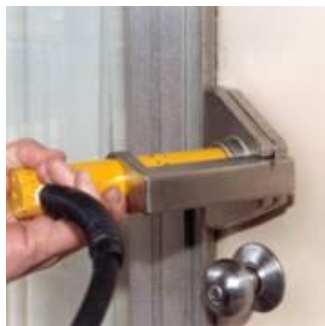
**Rabbit Tool**

**RECOMMENDED STEPS FOR FORCING A DOOR**

- ☐ **GAP THE DOOR** – Using the ADZ end.
- ☐ **SET THE TOOL** - Insert the jaws between the door and the frame midway between the knob and the lock; the **jaws must be in the closed position**.
- ☐ **FORCE THE DOOR** - The door should open with several pumps of the handle.



**Gap**




**Set**



**Force**

**Note:** When there are multiple locks, insert the jaws between the knob and lock and then move to the proximity of the next lock.

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### **THE DOOR DOES NOT OPEN DURING THE INITIAL OPERATION**

**Problem:** TOOL IS FULLY EXTENDED AND THE DOOR STILL DOES NOT OPEN

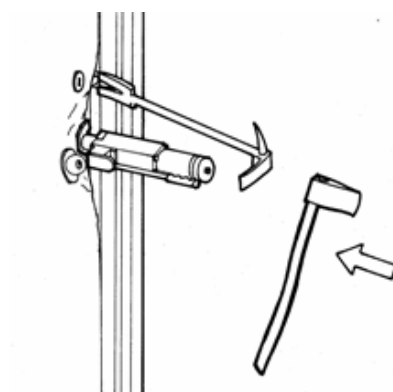
**Solution:** Reposition Tool On The Lock

- ☐ Locate the locking device.
- ☐ Wedge the door open with the head of the axe or the Halligan Tool.
- ☐ **Reposition the hydraulic tool** directly on the lock and extend.




**Solution:** Drive Lock Off The Door

- ☐ Maintain the opening with the hydraulic tool.
- ☐ Drive the lock off the door with the axe and Halligan Tool.



**Drive Lock Off**

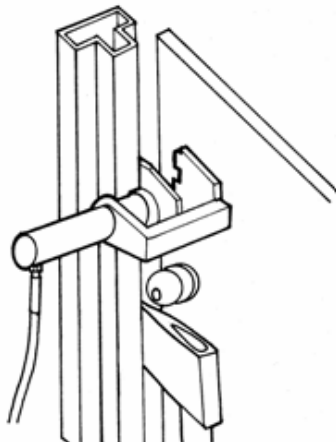
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### THE DOOR DOES NOT OPEN DURING THE INITIAL OPERATION

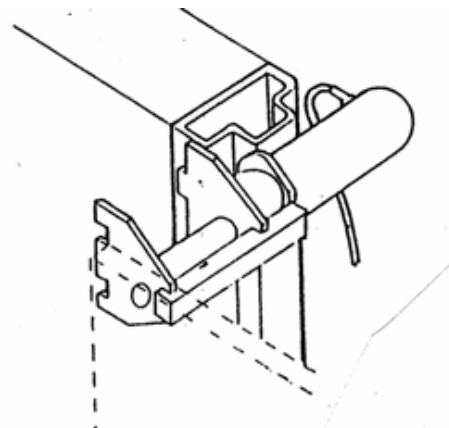
**Problem: TOOL IS FULLY EXTENDED AND THE DOOR STILL DOES NOT OPEN**

**Solution: Reposition Tool Inside The Doorframe**

- ☐ Maintain the opening with the hydraulic tool.
- ☐ Slip the axe or Halligan Tool into the gap and **maintain purchase**.
- ☐ Reposition the hydraulic tool **INSIDE THE DOORFRAME**.
- ☐ Pump the handle to extend the tool.



**Reposition**



**Extend**

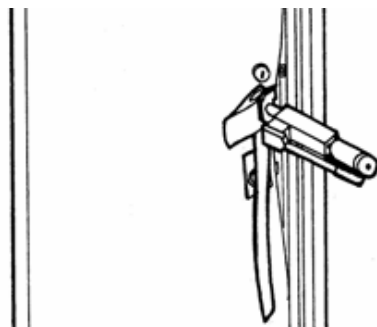
**Note: This maneuver may not work with the Hydra-Ram tool.**


### THE DOOR DOES NOT OPEN DURING THE INITIAL OPERATION

**Problem: DOOR NEARLY FORCED BUT NEEDS A LITTLE MORE**

**Solution: Use Head of the Axe to Extend the Spread**

- ☐ Maintain the purchase with the Halligan Tool.
- ☐ Place the head of the axe between the door and the jaw and extend.



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### **ANGLE IRON *INWARD OPENING DOOR* (Door swings away from you)**

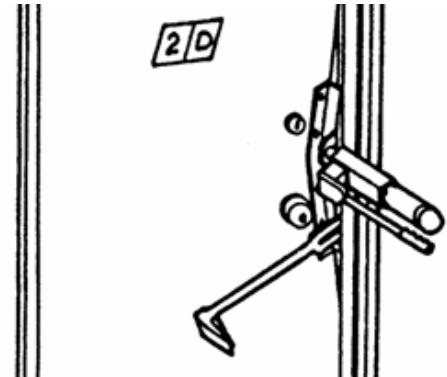
- ☐ Usually bolted to the door, may be partial or full length.
- ☐ The angle iron may be flat stock or shielded (interlocked with “J Channel”).

#### **Partial Angle Iron**

- ☐ **GAP** the door by placing hydraulic tool above or below angle iron and open to full extension.
- ☐ Maintain this purchase with the axe or Halligan Tool.
- ☐ Reposition the hydraulic tool between the door stop and the edge of the angle iron (on the angle iron).

#### **Full Length Angle Iron**

- ☐ **GAP** the door by driving the **FORK** end of the Halligan Tool between the angle iron and the frame, pushing the Halligan **towards** the door.
- ☐ Reposition the hydraulic tool on the angle iron and extend.



### **MAGNETIC LOCK**

The doors these type locks are installed on are usually *outward* opening type doors. This is an exception to the use of the hydraulic forcible entry tool, which is primarily designed for *inward* type opening doors.

#### **Procedure for Forcing Magnetic Lock**

- ☐ Place Halligan Tool through the door handle with **ADZ** end toward you.
- ☐ Place the jaw of the hydraulic tool behind the **ADZ** end of the Halligan Tool.
- ☐ Pump the tool using the doorframe as the base and **“pull”** the door away from the magnetic lock.



**Note:** The Hydra-Ram tool has enough power to overcome the force of the magnetic lock.