	Cincinnati Fire Department Fire Training Supplement DRILL BOOK	SECTION #1 General Fire Fighting
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Exerpts from FDNY Forcible Entry Manual

HINGES

TYPES: There are many types of hinges used today. The types we discuss will be known as:

- Standard
- Self-Closing
- Pin Type

- **STANDARD HINGES:**

Most common type found in residential occupancies. May find two or three mounted on a door. The center pin connects the two pieces of the hinge.



- **SELF CLOSING HINGE:**

This hinge is more common in commercial type occupancies. It is a sealed, spring-loaded hinge. These may also be mounted in sets of two or three to a door.




- **PIN TYPE HINGE:**

As a rule these hinges are mounted on the exterior of Commercial Occupancies. The "Pin" is secured to the frame and the hinge is secured to the shutter or door.



- Forcing a door at the hinge side **SHOULD NOT** be a **primary** means of gaining entry.
- Once a door is forced in this manner you will **"lose the integrity"** of the door.
- The **PRIMARY** means of gaining entry should be on the **LOCK** side.
- Forcing a door at the hinge side should only be done when **ALL** other means of gaining entry on the lock side have failed.

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STANDARD HINGE – *INWARD* OPENING DOOR (Door swings away from you)

Some suggested means of gaining entry:

- Force the door to expose the hinge, using the Halligan, then work directly on the hinge.
- Create a gap and use either the **ADZ** or **FORK** end of the Halligan.
- Place end of tool just below the hinge.
 - **ADZ** end apply force either up or down.
 - **FORK** end apply force either toward or away from the door.
- Using the **PIKE** end, as a fulcrum, separate the hinge from the frame.
- **“Batter the door”** at the hinge.
 - With the back of the axe, maul or Halligan Tool, strike the solid part of the door adjacent to the hinge.
- Hydraulic tool would be used the same as if you were forcing a door on the lock side, only place the tool on the hinge side.



Adz End



Fork End




Pike End



Batter the Door



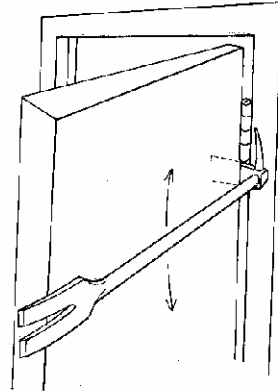
Hydraulic Tool

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STANDARD HINGE

Removing A Door

- ☐ With the door partially open, slip the ADZ between the door and the frame just below the hinge; then pry up or down.

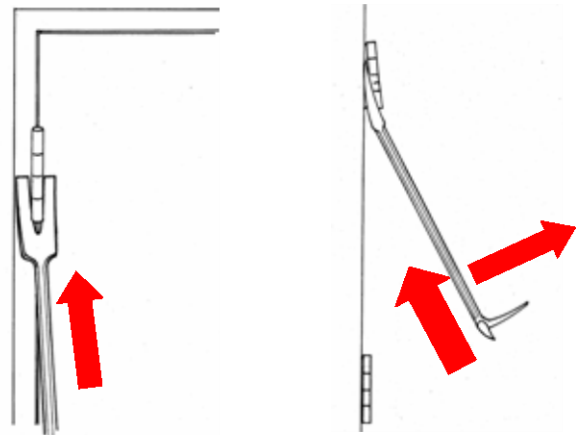


Note: ALWAYS attack the UPPER hinge FIRST so that smoke and heat will rise while completing the entry on the bottom of the door. Be aware, many doors now have three hinges.

STANDARD HINGE – *OUTWARD* OPENING DOOR (Door swings toward you)

Some suggested means of gaining entry:


- ☐ Place the **FORK** end of Halligan Tool over the exposed hinge and pry up or down.
- ☐ On stronger hinges drive the Halligan over the hinge and twist side to side to break or loosen the mounting screws, then pull out.
- ☐ Remove the pin if possible to separate the hinge.



Note: ALWAYS attack the UPPER hinge FIRST so that smoke and heat will rise while completing the entry on the bottom of the door. Be aware, many doors now have three hinges.

Technique Tip:

For a Bulkhead door, keep the door between you and the opening to protect from heat and or flames, which may come out.

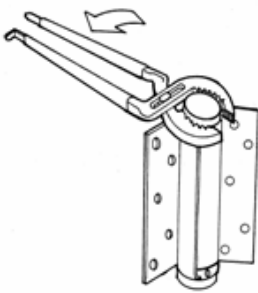
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SELF-CLOSING HINGES

These hinges may be found anywhere, but are very often found on bulkhead doors. They usually have a threaded rod with two cap nuts, which can be easily unscrewed with a pair of channel locks or a snap-on cap, which may be pried off. Some suggested ways to force these hinges are:

Method 1:

- ☐ Unscrew or snap off, the top cap and tap the threaded pin down.




- ☐ Pull the bottom cap and pin down and out.



Method 2:

- ☐ Drive the **ADZ** or the **FORK** of the Halligan Tool into the body of the hinge between both sections, splitting the hinge into two pieces.
- ☐ Pull up or push down with the Halligan Tool.



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SELF CLOSING HINGES

Method 3

- ☐ Cut the hinges with the forcible entry saw.

Note: ALWAYS attack the UPPER hinge FIRST.

Technique Tip:

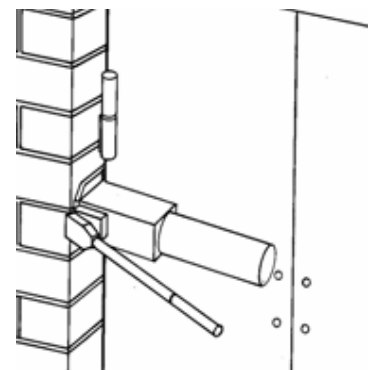
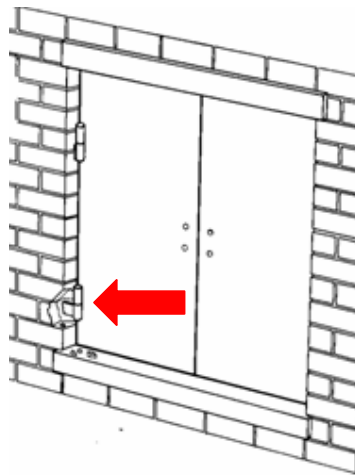
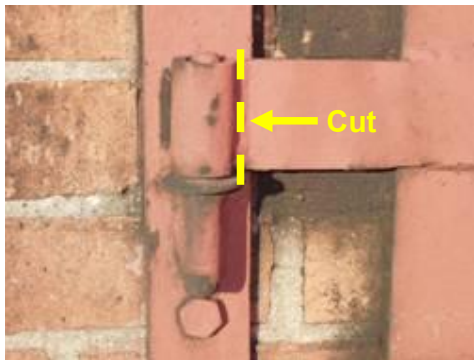
For a bulkhead door, keep the door between you and the opening to protect from heat and or flames which may come out.



PIN HINGES

These types of hinges are usually found on shutters. They can also be found on commercial buildings and places of public assembly. The “pin” is attached to the window frame or doorframe, and the shutter or door holds the corresponding hinge. Some suggested means of forcing entry:

- ☐ Use the power saw to cut the hinge.
- ☐ Breaking the anchor point where the hinge is set by using the back of the axe, maul or Halligan.
- ☐ Prying the hinge with the hydraulic tool.



Note: Be aware of possible venting smoke and or fire. Place the shutter/door between you and the opening if possible.