

# Hand drill

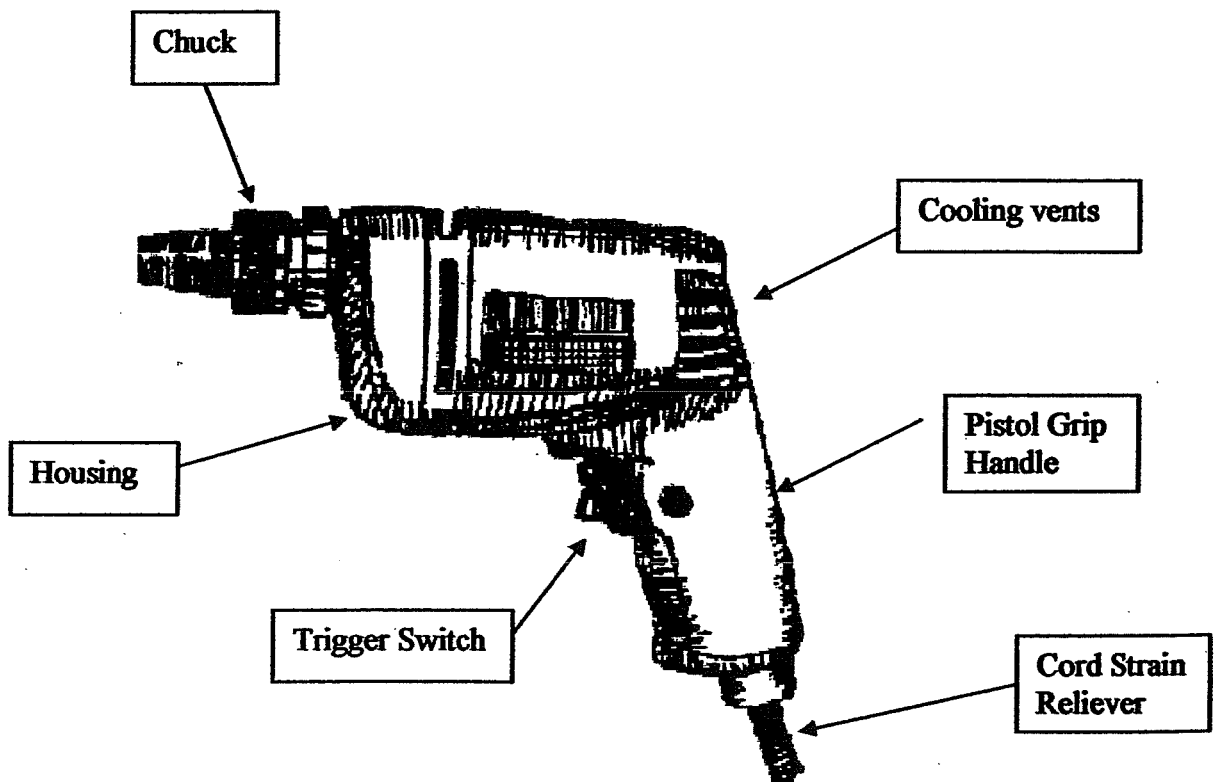
## To certify on the hand drill you will need to know:

1. The safety rules.
2. The parts of the hand drill.
3. How to install a drill bit and drill a hole.

## Hand drill safety rules.

1. Wear eye protection
2. Remove jewelry, eliminate loose clothing and confine long hair.
3. Be sure that the drill bit is in the chuck tightly then remove key.
4. Clamp your material in place prior to drilling into it.
5. Do not lay the drill down until it has completely stopped.
6. Do not overload the motor to the point of overheating.

## Parts of the hand drill.



## **How to install a drill bit and drill a hole.**

- 1. Select bit needed. This should be sharp before use.**
- 2. Install bit into chuck and tighten with key.**
- 3. Select proper speeds. Slower speeds for starting holes without a center punch, mixing paints and drilling ceramics. Medium speed is used for increased power for drilling ferrous metals, plastics and laminates. Maximum speed and power is used for drilling wood and driving accessories. This speed can be used to drill non-ferrous metals.**
- 4. As you drill, you come to a point at which you are ready to break through. BE sure to take some pressure off the drill motion so that the drill will not suddenly break through, causing you to fall off to the side with the hand drill. This might result in drill bit breaking.**
- 5. When finished drilling the hole, remove the bit from the chuck using the key. Turn key counterclockwise to loosen it. Put drill bit away.**