How to Remove a Broken and Embedded Screw

How to extract and replace a screw that has broken while embedded in its hole.

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INTRODUCTION

This guide will show you how to extract a screw that has broken while being embedded inside its hole, along with showing you how to replace it with a new one. This process works for screws inside walls, pieces of lumber, or metal. The guide requires a couple of power tools, so you should always use the necessary precautions when using them to avoid any injuries.

TOOLS:

- Hammer (1)
- Adjustable Wrench (1)
- Power Drill (1)
- Screw Extractor Set (1)
- Angle Grinder (1)
- Center Drill Bit Set (1)
- Center Punch (1)

Step 1 — How to Remove a Broken and Embedded Screw

- Use an angle grinder to grind the tip of the broken screw until its surface is smooth and even.

Step 2

- Place a center punch in the middle of the tip of the screw.
- Use a hammer to hit the center punch to make a dent in the center of the embedded screw.

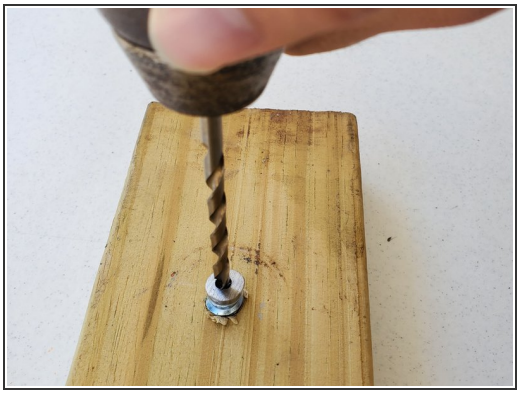
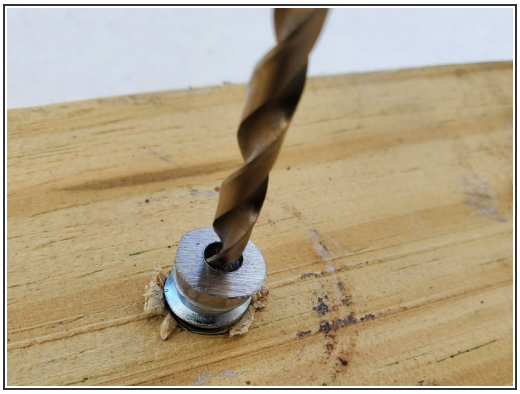
Step 3



- Place a center drill bit in the dent made in the previous step and start drilling until it expands enough to fit the standard drill bit inside it.

⚠ Always keep the drill bit at a 90 degree angle to the surface of the screw since tilting it can bend and break its tip.

Step 4

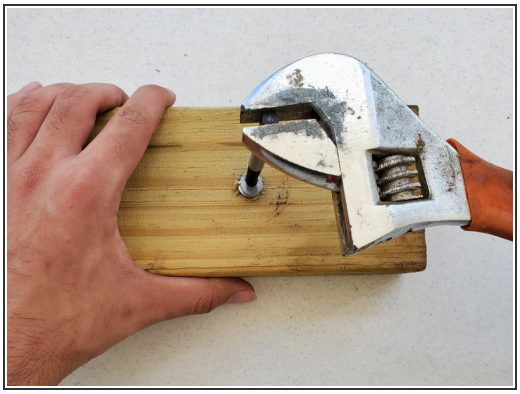



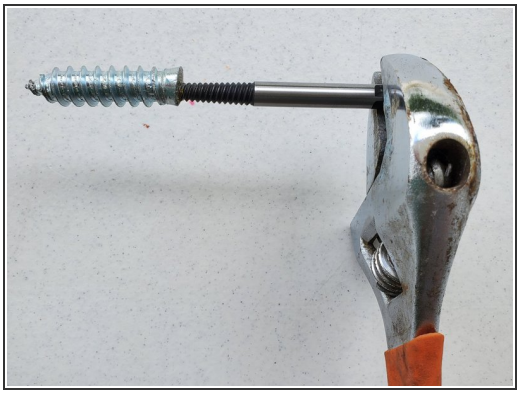

- Make a hole in the tip of the screw by drilling with a standard drill bit.
- Keep drilling until the hole reaches near the end of the screw.

Step 5

- Insert a screw extractor in the hole and then hammer it inside, making sure it is tight.

Step 6





- Using a wrench, unscrew the extractor.
- The screw will come along with it, freeing the hole.

Step 7

- Screw the new screw inside the freed hole.

