### Damaged implant removal

#### Challenges and solutions

**Tasks**

1. **Destroyed coupling mechanism**
   
   Insert conical extraction bolt (a) in screw head and try to remove screw

2. **Broken screw removal procedure**
   
   Remove bone around screw and, at the same time, extract the screw with the hollow reamer (b)
   
   The debris accumulating inside the tool needs to be removed frequently.

**Learning outcomes**

- Identify the function of different instruments to aid screw removal
- Remove screw with destroyed coupling mechanism
- Remove broken screw

**Take-home message**

- Use undamaged screw driver
- Clean hexagonal coupling mechanism of screw head
- Do not use a power drill

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**Problem 1**

**Destroyed hexagonal coupling mechanism of screw head**

- Intact
- Destroyed

**Problem 2**

**Broken screw, screw shaft stuck inside bone**

- Endosteal cage
- Inner screw