

Professional Drill-Out Broken Bolt Extractor Kit

Take The Frustration Out Of Removing Broken Bolts.
Made In U.S.A.



- Revolutionary new method for removing broken bolts
- Incredible improvement over traditional methods of extracting broken bolts
- Easy, timesaving operation
- Fast and reusable
- Self-centering tip

Part No. 17093

For grade 5 and grade 8 bolts in sizes: 1/4" (6mm), 5/16" (8mm), 3/8" (10mm) & 1/2" (12mm)

UNIT PACKAGE: 1

Replacement Extractor Tools



| Auveco Part No. | Drill Size |
|-----------------|-------------|
| 20537 | 1/4" (6mm) |
| 20538 | 5/16" (8mm) |
| 20539 | 3/8" (10mm) |
| 20540 | 1/2" (12mm) |

The Drill-Out Broken Bolt Extractor is excellent for removing broken bolts and studs without damaging the threads in the hole. The drill body is manufactured using the finest quality hi-speed steel. The collet is produced from hot die steel, using the finest steel of its type. All Drill-Out Broken Bolt Extractors are made with a precision ground 118° left hand cutting self-centering point, and are heat treated for toughness.

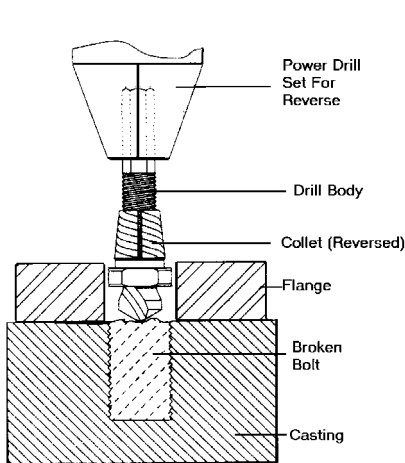


FIG. 1

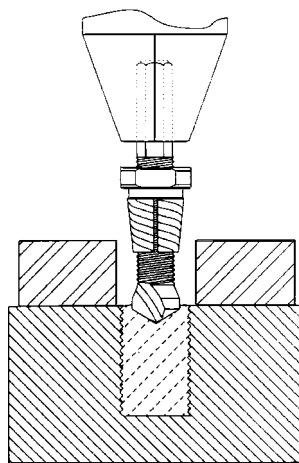


FIG. 2

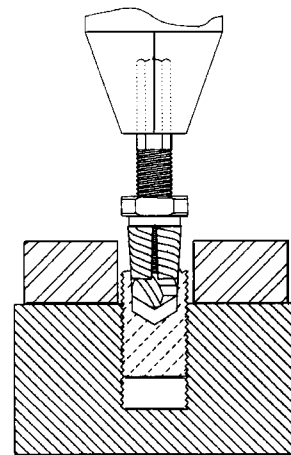


FIG. 3

Fast & Easy To Use.

Always Use Protective Eye Wear When Drilling.

1. Place the Drill-Out tool into an electric drill and set for reverse operation. Move the collet up to the chuck. Note: when the bolt is broken below a flange attached to a casting, reverse the collet as in (Fig. 1.)
2. Making sure the drill is set in reverse, place the tip of the Drill-Out on the center of the broken bolt and begin drilling. Do not allow the collet to move down towards the tip while drilling. If so, thread the collet back towards the chuck. Drill just deep enough to start a hole (approximately 1/16").
3. Make sure the hole is started on center of the bolt. If you reversed the collet in step 1, change it back at this time. Continue drilling. Stop just before you reach the front of the collet. Do not let the collet touch the end of the bolt. (Fig.2)
4. Remove the Drill-Out tool from the broken bolt. Move the collet down towards the tip so that 2 threads are showing. Bring drill up to speed and plunge it into the hole. The collet automatically engages and extracts the broken bolt. (Fig.3)

Detailed Instructions Included in The Kit