

# HDD Tooling Technical Data

## Eagle Claw Assembly Instructions

Tools for Assembly: (2) 36" Pipe Wrenches or Manual Breakout Wrenches

Parts for Assembly: Eagle Claw, Melfred Borzall Housing, Tailpiece

1. apply copper based grease to eagle claw threads
2. screw into front of housing (end with timing device)
3. torque into housing with available wrenches
4. apply copper based grease to tailpiece
5. torque into opposite end of housing
6. install sonde and timing device into housing cavity
7. calibrate sonde to locating system (adjust timing device if necessary)

## Replacing Eagle Claw Teeth

1. remove teeth from cutter with provided punch removal tool
2. apply small amount of grease to tooth shank for easier installation and extraction
3. install new teeth with rubber mallet or dead blow hammer (never use an iron hammer to install teeth – carbide can shatter causing injury)

## Connecting to Machine

1. direct connect to drill rod is always the strongest connection
2. using the ez-connect system is ok. Use of a long flex rod or transition sub is not recommended; the eagle claw tends not to get as good of a bite in harder formation and also tends to make drill rod chatter or jump around more. The eagle claw may also over steer in a softer formation causing more flex and putting more stress on drill rod connections. The eagle claw has a more aggressive pitch than conventional dirt tooling.

