

PRESSURE TESTING TOOLS

B AND C CABLE DRILLS

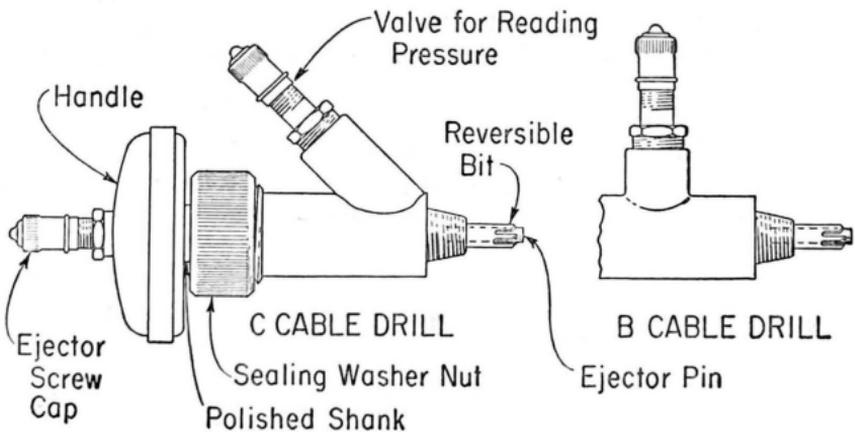
Contents	Page
1. General	1
2. Description	1
3. Method of Use	2
4. Maintenance	3

1. GENERAL

- 1.01 This section describes the C Cable Drill and the superseded B Cable Drill. It replaces Issue 1.
- 1.02 Each of these tools serves as a cable drill and temporary valve. It provides a convenient method of making valve connections to a lead sleeve or cable sheath without loss of gas. This eliminates waiting for equalization of pressure when it is necessary to make accurate pressure measurements at points between existing valves.

2. DESCRIPTION

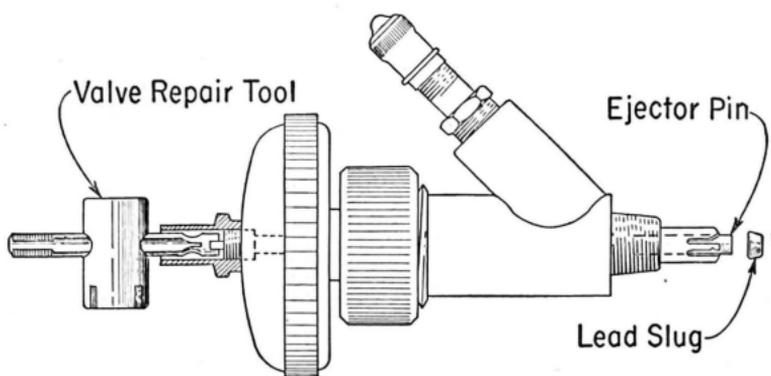
- 2.01 The B and C cable drills are illustrated in the following sketch.



- 2.02 The cutter is mounted at one end of a polished shank which is operated through a pressure sealing gland.
- 2.03 The valve on the side of the tool is used as the pressure chuck connection.
- 2.04 The valve stem in the handle provides access to the screw operated lead slug ejecting pin which is turned by means of the standard valve repair tool. The valve cap at this point serves as a gas seal and should remain tightly closed when the tool is on the cable.

3. METHOD OF USE

- 3.01 At the point where the temporary connection is to be made, clean the sleeve or sheath and solder an F flange in position in the usual manner.
- 3.02 The tool is then connected to the cable and operated as follows:
 - (1) Apply standard thread lubricant to the connecting[↑] screw, to seal the threads. Make sure the lead slug has been removed from the bit and that the ejector pin is fully retracted.
 - (2) Check the operation of the drill to see that it turns readily in the compression gland, but that the gland is tight. Lubricate and tighten, if necessary, as outlined in Part 4.
 - (3) Raise the cutter and turn the screw into the flange by hand firmly.
 - (4) To ensure a good seal, flash test by applying pressure to the valve. Check for leaks with pressure testing solution at the top valve cap, around the drill shank and at the F flange. Tighten if necessary.
 - (5) This tool is held the same as the ordinary cable drill. Lower the cutter and with firm downward pressure, drill the hole in the usual manner. (With practice, it is possible to feel the easier turning as soon as the drill has cut through. This can be checked with a pressure gauge.)
 - (6) When the cutter has penetrated the sheath, raise the drill. Then connect the measuring instrument to the side valve. Check the side valve for leaks as soon as the instrument is disconnected. ↓
 - (7) After the tool is removed, seal the flange with a screw plug in the usual manner.
- 3.03 Remove the lead slug from the drill as illustrated below.



To remove lead slug from drill, remove the cap and turn internal screw clockwise with valve repair tool.

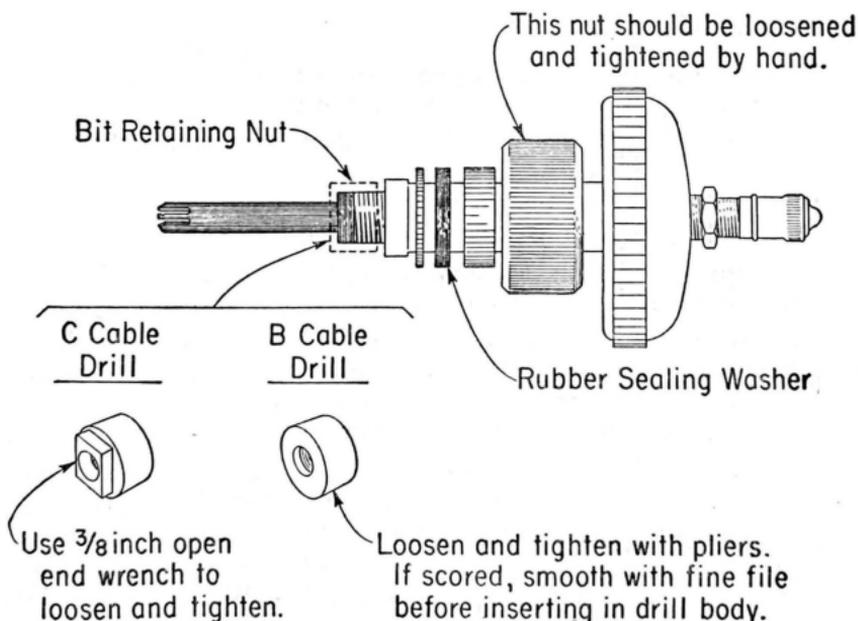
4. MAINTENANCE

4.01 The following are replacement parts for the B and C cable drills:

Bit, for B Cable Drill

Bit, for C Cable Drill

4.02 The bit is double-ended and may be reversed when worn, by disassembling the tool as illustrated below. The bits for the B and C drills are not interchangeable.



4.03 In replacing the bit in the B cable drill, make sure that the bit retaining nut is smooth before reassembling in the drill body. If deep score marks are not removed, the inside of the drill body may be scored which will cause binding and result in damage to the sealing washer. ↵

4.04 **Cleaning and Lubrication:** To insure smooth operation of the drill, clean the pressure testing solution off the polished shank and compression gland nut regularly. Dirt accumulation at this point may otherwise damage the shank.

4.05 If the shank appears dry, lubricate with a small quantity of KS-7471 grease or a drop of oil. ↵

4.06 The threads and other parts of the tool should also be kept clean using a cloth moistened with kerosene or equivalent.

4.07 **Valve Core and Caps:** The core in the side valve should be replaced at about yearly intervals or whenever it is found necessary. The valve caps should be changed at the customary intervals.