

Date: 01/07/04

Subject: Feed Mounted Safety Shutdowns.

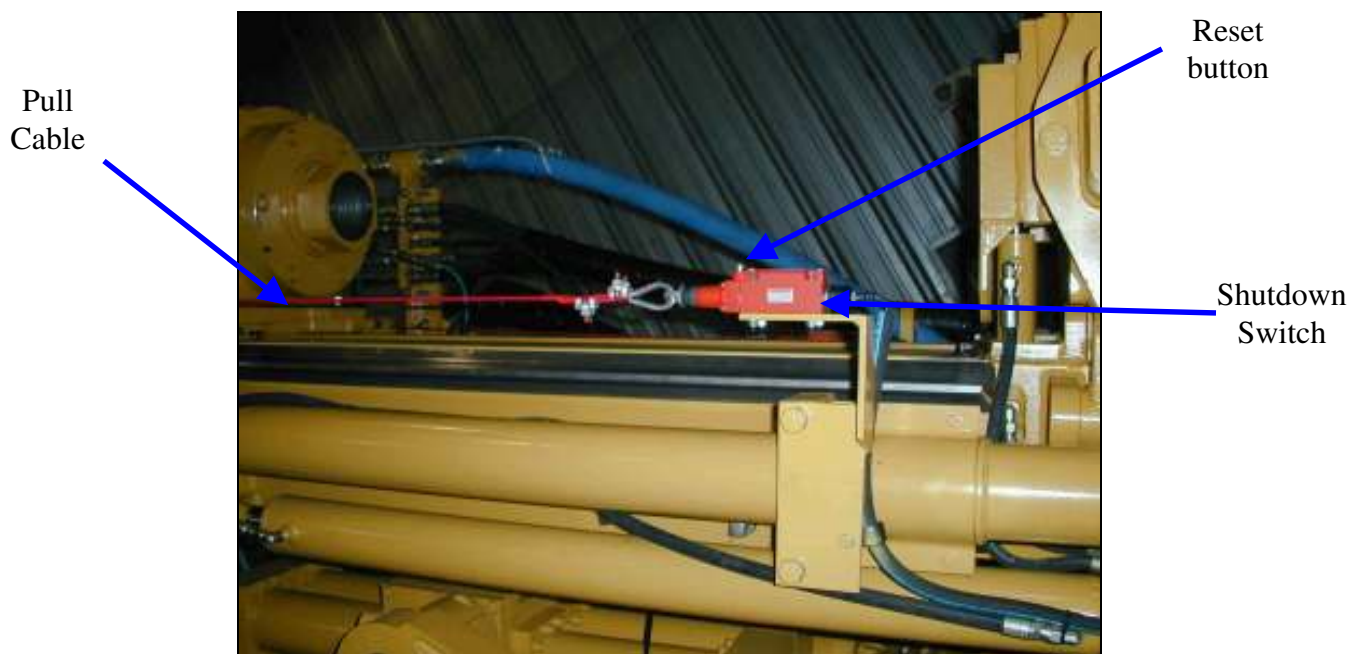
Unit/Part Affected: All Cubex Drills.

Purpose: Cubex Highly recommends that all existing Cubex drills be retrofitted with feed mounted safety shutdown systems. Please contact your nearest Cubex Parts/Service distributor for information.

It is also highly recommended that any improvements listed in this bulletin be installed or 'applied' to any existing feed mounted safety shutdowns that you may have installed on your drills. Please contact your nearest Cubex Parts/Service distributor to analyze your existing system for any features listed in this bulletin that you may not have.

Description of System:

Functionality: When the cable is pulled in any direction along its length the switch is tripped and power is cut to the electric motor on the unit. The 24 volt power to the drilling functions is cut at the same time providing immediate stopping of the rotation and feed. The drill will not start until the shutdown switch or switches are reset



Electrical Failsafe: The shutdown switches use normally closed contacts. If there is an interruption or loss of power in the circuit the contact will open and the drill will shutdown. The drill will not start until the broken or loose wires in the circuit are repaired.

Mechanical Failsafe: The shutdown switches will monitor 'pull cable' tension. If there is any loss of tension on the pull cable (ie. Slack or cut cable) the drill will not start until the problem is repaired.

Operator Checks and Maintenance: The Safety Shutdown System should be tested each time before drilling by the operator to ensure that it is functioning properly. Maintenance personnel should inspect the system as part of a regular maintenance schedule to ensure proper functionality.

NOTE: Parts and maintenance documentation will be provided by Cubex with any retrofit or upgrade. The serial number of the unit to be retrofitted/upgraded must be provide as parts required will depend on each individual unit. Part number the for the kit is serial number specific and will be provided when ordering.