

TT0012

Mabeg Feeder Solenoid Failure

Problem:

Solenoid (F4029 Magnet) fails (burns up) on Mabeg feeder.

Cause:

The F4029 Magnet is a solenoid that triggers the Mabeg Feeder Clutch to stop or start the feeder drive. The foremost cause of solenoid failure is the feeder clutch binding or sticking because of dirt, grease, and/or burrs in the clutch works. Another reason, though less likely, could be a worn-out clutch that is at the end of its life-span.

Symptoms:

The symptoms of clutch failure normally begin with the feeder failing to stop, and/or throwing out extra sheets of paper. If these issues are not addressed, misfeeds and paper jumping into the rollers may occur. A worn out clutch can also be the cause of registration problems.

If these signs are ignored, the next symptom will most likely be an unusual odor, followed by smoke and possibly flames from the solenoid burning.

Solution:

Because solenoid failure is a by-product of clutch failure, it is mandatory to repair or replace a faulty clutch before replacing a damaged solenoid. Heath Custom Press recommends disassembling the clutch halves and cleaning any dirt and grease with solvent and smooth any burrs with sandpaper. It is highly recommended to replace the three springs (F4924) and spring tips (F5883) at this time. Be sure to lubricate the clutch after re-assembly. When re-installing the clutch, check that it moves smoothly on the shaft. Replace the solenoid (F4029) and test. If any symptoms of clutch failure occur, clutch replacement may be necessary.

Prevention:

Heath Custom Press offers circuit breaker kits that protect the solenoid from damage if the feeder clutch binds. The kit limits the current going to the solenoid, and trips the breaker before the solenoid can burn. Clutch inspection can then be done before resetting the breaker. There are two versions of these kits, SB2455 for a Logic Box controlled Heath Sheetfed Press and SB2454 for a Microprocessor controlled Heath Sheetfed Press.



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