The Campbell Group

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From: Consumer Engineering

Concerning: FP2000 Unloader Replacement

Instructions/Attach To:

US/CN053

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SERVICE BULLETIN

FP2000 Unloader Replacement

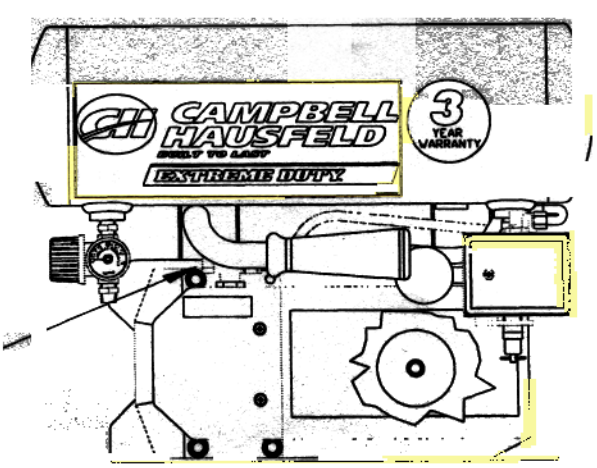
Field complaints on the FP2000 are being reported. The problem is that the cold start unloader on the head, part number FP00178AV, is failing to close when the unit starts, especially from 0 psi. The symptom is the compressor won't reach cutout pressure and the cold start unloader in the tee fitting on the head continuously bleeds air. This is due to either one of two problems.

1) The cold start unloader is coming apart inside the T fitting. The piston works its way out of the unloader body causing the unloader to not shut off when the unit builds pressure. The fix is to replace the unloader. This problem is due to a defective unloader.
2)
3) The cold start unloader is installed into the T fitting with sufficient torque that the unloader body collapses on the piston. This causes the unloader to either intermittently or permanently stick in the open position. The solution is to replace the unloader. Although removing the unloader and replacing it with reduced installation torque sounds like a good idea, sometimes the body has permanently collapsed and will continue to intermittently stick. This intermittent failure may not happen while the unit is being tested. If the unloader is tapped with a metal object, sometimes this will cause it to appear to begin operating normally. The unloader will probably repeat the sticking at a later date due to distortion of the body. Replace the unloader.

Replacement of the Unloader

Remove the original cold start unloader from the T fitting and discard it.

Carefully apply Loctite No. 271 or 542 to the threads of the new unloader. Be careful to apply the Loctite to the top threads near the hex flats on the unloader. DO NOT GET ANY LOCTITE ON THE PISTON OR ON THE LAST SET OF PIPE THREADS CLOSEST TO THE PISTON.

Install the new unloader finger tight plus ½ to 1 full turn or until slight resistance is felt when using a wrench (approx. 5-20 in-lb.). The Loctite will seal the threads. Do not tighten the unloader tight enough to allow the tapered pipe threads to collapse the unloader body. Allow the Loctite to dry 15 minutes before testing the compressor.

RWT Code # CP601
Part # FP000178AV