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Troubleshooting Your Quick-Lube System

This troubleshooting check list is meant to be used as a helping hand in trying to diagnose your quick-lube system. You may notice that you have a blinking light on your push button or a green indicator light flashing on the face of your PCB in your pump. This step by step guide is meant to be used as a reference for troubleshooting your system. Please follow the guide step by step and do not skip any steps as it may cause in a miss diagnosis. Lets begin...

1. First you want to check your pressure relief to see if any grease is coming out of it. The pressure relief is located at the main outlet of the pump and looks like the picture below. If there is grease coming out of the pressure relief then please skip to **Step 9**. If there is no grease coming out from the pressure relief then please continue to **Step 2**.





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2. If no grease is leaking out of the pressure relief you will need to disconnect the main line at the pressure relief and manually start your quick lube pump. If grease does not is being dispensed from where you have disconnected your main line please check your pump for air and proceed to **Step 3**. If there is grease coming out from where you have disconnected your main line please skip to **Step 4**.
3. If your pump reservoir has the allotted amount of grease in it necessary to run then check to make sure the paddle inside the pump is spinning and pump if on. If not, you will need to check the ground wire and power wire that run from the machine to the pump. If the ground is fine and your power wire is providing voltage (please note: check your fuse is installed) to the pump and the paddle is spinning you will need to check the pump element. Remove the element and inspect it. If it looks fine please reinstall and run system again.

Side Notes to Step 3

- If your pump does not have power (paddle not spinning) it can be caused by a bad ground or blown fuse. The best way to check these is with a volt meter.
- If your pump has power (paddle is spinning) but no grease is dispensing directly out of the pump then you most likely have a bad pumping element. Another method to test your element is to hold your finger over the hole of the element and if you feel the grease being sucked back in it is most likely bad.



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Picture of Pumping Element



4. If grease is being dispensed from the pump check the pressure gauge. If pressure is low and no leakage from the pressure relief it is not a blockage.
5. If element tested fine verify at this point that the system is physically cycling. Check the connection at the pump for the proximity switch. Next you will need to trace the wire from the plug end to the proximity switch connected to the valve/switch. Inspect for frayed/cut wires and repair if needed.
6. If the wire for the proximity switch is fine then please cycle the system and inspect the proximity switch indicator light located at the valve/switch end. You will see the light illuminate as the valve cycles. If the light doesn't illuminate when the valve cycles your issue is the proximity switch and it needs to be replaced. If the light illuminates when the valve cycles the problem may be either the PCB board located inside of the pump or the proximity switch.



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7. Remove your proximity switch from the valve and cycle pump manually. Use an Allen wrench to actuate the switch slowly and see if the light illuminates from the switch. If the light illuminates and the pump shuts off then the issue is the valve. Be sure to check the location of the port the proximity switch is installed on. The proximity switch can not be installed on the outlet farthest from the valve inlet as this may cause a short stroke in the switch and cause a fault. Please change valve if needed.

8. If your pump fails to turn off the problem is the PCB board located inside of the pump. Order a replacement board and replace the defective item and test the pump.

9. If you have grease coming out of your pressure relief then you have a blockage in your system. From here you will need to cycle each secondary valve with a grease gun. **DO NOT USE** a pneumatic grease gun as you will not be able to feel the resistance in each valve as your try to cycle them manually. As you are cycling each valve you will come across a valve that will not cycle or does cycle with high resistance.

10. Now that you have located the valve that is causing the blockage you will need to inspect the valve and the lines from the valve. Wiggle each line and to determine if one is really tight or does not wiggle in the outlet coupling. This will most likely be your line causing issues. Also inspect the valve outlets. **YOU CAN NOT** plug the outlets on either side of the valve farthest from the inlet on the valve. This will cause the valve to not cycle and cause a blockage.



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11. Once you have identified that is not the valve causing the blockage and it is a line itself disconnect it from the termination fitting at the point. Cycle your system again and if the system functions properly then the bearing is the issue. If not go to step 12.
12. If the line is still blocked please reconnect your line to the bearing. Disconnect the same line from the valve side and cycle the system. If grease comes out of the valve from where you disconnected the line then replace the line and rerun your system to test.
13. If the blockage remains disconnect all lube lines from the valve. Manually cycle the valve in question. If the system is still blocked then the issue is the valve and you will need to replace it and test your system again.
14. If the valve was your issue please inspect the valve. Look for any signs of contaminants if you notice anything then purge your system and make sure the grease in the reservoir is contaminant free.
15. If you do not notice any contaminants then please check to make sure the incorrect fittings were not placed in the valve. If so, please check all other valves and fittings as this can cause an issue and fool your proximity switch.
16. If you come to this step and have not found an issue such as no blockage or restriction then you should now replace your pressure relief and re-test your system.



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If you have any more questions or concerns please feel free to contact us directly to ask for help over the phone or to schedule a service call for our technicians to come and service your equipment.