



## 8. PUMP TROUBLE SHOOTING GUIDE ... GET BACK IN ACTION FAST

Symptoms	Cause	Action
<b>Suction failure</b>	Suction air leak	Check and correct hose and couplings
	Pump not properly primed	Prime pump correctly
	Speed too low or head too high	Consult pump specialist
	Blocked suction	Unblock suction
	Excessive suction lift	Check pump specification
<b>Reduced performance</b>	Air pockets or small air leaks in suction line	Locate and correct
	Obstruction in suction line or impeller	Remove obstruction
	Insufficient submergence of the suction pipe	Increase submersion of strainer
	Excessively worn impeller or wear ring	Replace impeller and/or wear ring
	Excessive suction lift	Check pump specification
<b>Engine or motor overload</b>	Wrong direction of rotation	Refer to installation instructions
	Speed higher than planned	Reduce speed
	Liquid specific gravity too high	Check pump specification
	Liquid handled of greater viscosity than water	Check pump specification
	Too large an impeller diameter	Trim impeller
	Low voltage	Consult power supplier
<b>Excessive noise</b>	Stress in pipe connection to pump	Support piping properly
	Misalignment	Align all rotating parts
	Excessive suction lift	Consult pump specialist
	Material lodged in impeller	Dislodge obstruction
	Worn bearings	Replace bearings
	Impeller screw loose or broken	Replace
<b>Premature bearing failure</b>	Cavitation (improper suction design)	Check flow not impeded, i.e. strainer blocked, gate valve part closed etc. Check duty point of application matches pump specs.
	Wrong direction of rotation	Refer to installation instructions
	Misalignment	Align all rotating parts
	Suction or discharge pipe not properly supported	Correct supports
	Bent shaft	Replace shaft
	Water or contaminates entering bearings	Protect pump from environment
<b>Electric motor failure</b>	Lubrication to bearings not adequate	Check manual
	Wrong type of lubrication	Check manual
	High or low voltage	Check voltage with voltage metre
	High electric surge	Monitor voltage and consult power supplier
	Poor electric connection	Turn power off, clean and check connections
	Overloads	Check amperage. Do not exceed nameplate full load amperage
<b>Electric motor failure</b>	Bearing failure	Change bearings in motor
	Cooling vent plugged (rodent, leaves, dirt, etc.)	Install proper screens
	Moisture or water in motor	Protect pump from environment

Need more assistance with your pump trouble-shooting? ...

Call Aussie or your local Aussie dealer