



Pump not priming? Fix it fast ...

Check out How Self Priming Pumps Work & our **TOP 5 troubleshooting tips**

Need more assistance with your pump trouble-shooting? ... Call Aussie or your local Aussie dealer

Symptoms	Cause	Action	
Suction failure	TOP 5 Air leak in suction line Pump not properly primed Speed too low or head too high	Check couplings, associated o-rings and hose are all air tight Prime pump correctly, fill pump body & refit priming plug Consult pump specialist	
	TOP 5 Blocked suction Excessive suction lift	Unblock suction strainer & suction hose Check pump specification	
	Reduced performance	Air pockets or small air leaks in suction line	Locate and correct
TOP 5 Obstruction in suction line or impeller Insufficient submergence of the suction pipe Excessively worn impeller or wear ring		Remove obstruction, ensure strainer fitted Increase submersion of strainer Replace impeller and/or wear ring	
Excessive suction lift Wrong direction of rotation		Check pump specification Refer to installation instructions	
Engine or motor overload		Speed higher than planned	Reduce speed
	Liquid handled of greater viscosity than water	Check pump specification	
	Too large an impeller diameter	Trim impeller	
	Low voltage	Consult power supplier	
	Stress in pipe connection to pump	Support piping properly	
Excessive noise /vibration	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	
	Cavitation (improper suction design)	Check flow not impeded, i.e. suction hose too small, strainer blocked, gate valve part closed etc. Check duty point of application matches pump specs.	
	Wrong direction of rotation	Refer to installation instructions	
Leak from pump/engine (or motor) joint	TOP 5 Pump has been run dry Mech seal spring jammed Mech seal faces worn	Replace mechanical seal, pump must be primed before starting. Clean out debris, replace mech seal Replace mechanical seal	
	Premature engine/motor bearing failure	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	
Lubrication to bearings not adequate		Check manual	
Wrong type of lubrication	Check manual		
Engine does not start	TOP 5 Low oil shutdown is activated Low fuel level	Ensure pump is level, add oil to engine Add fuel	
	Battery not charged	Recharge or replace battery	
	Battery leads not connected	Clean battery connections and reconnect cables	
	Engine or pump seized	Replace seized part	
Electric motor failure	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	
	Bearing failure	Change bearings in motor	
	Cooling vent plugged (rodent, leaves, dirt, etc.) Moisture or water in motor	Install proper screens Protect pump from environment	