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Perrin Manufacturing's Pocket Guide to Compressor Troubleshooting

A. General Issues

Possible Causes	Inspection	Remedy
Loose drive belt	The belt oscillates considerably	Adjust the belt tension
Internal compressor malfunction	Drive belt slips	Replace Compressor

B. Magnetic Clutch related issues

Possible Causes	Inspection	Remedy
Low battery voltage	Clutch slips	Recharge the battery
Faulty coil	Clutch slips	Replace the magnetic clutch
Oil on the clutch surface	Magnetic clutch face is dirty causing it to slip	Replace or clean the clutch surface
Excessive clearance between the clutch plate and the clutch disk. The clutch plate clings when pushed.	Check clutch gap according to specifications.	Adjust the clearance or replace clutch
Open coil	Clutch does not engage and there is no reading when a circuit tester is connected between the coil terminals	Replace
Broken wiring or poor ground.	Clutch will not engage at all. Inspect the ground and connections	Repair
Wiring Harness components	Test the conductance of the pressure switch, thermostat, relay, fan switch, power to system, grounds. Etc.	Check operation, referring to the wiring diagram and replace defective parts.