Droblem		Action
Problem	Possible Cause	ACTION
Pump not running	• AC Power out or unit unplugged	
		Verify that AC incoming power is within 114 to 126 VAC.
	Timer turned off	Reset the timer breaker located on the top of the timer.
	• Tripped circuit breaker switch on	Check switch on timer/controller. Check all connections. Verify that discharge line is not blocked or a valve
	timer/controller	closed.
Charles and fluid	• Motor failure	Replace motor (ii above actions do not correct issue).
Pump runs, no fluid discharge	Air in pump champer	 Open bleed plug (#4H) and purge until steady flow of fluid, then close bleed plug. If pump continues vapor locking remove spring from the discharge check valve to purge vapor. 1/4" plunger pumps may require removal of discharge check valve to completely bleed all air from the pump chamber.
	 Fluid flow blocked by plugged line, closed suction valve, extremely high viscosity or lack of fluid supply 	Provide free flow of fluid to pump suction, fluid level in tank must be above level of bleed plug.
	Suction or Discharge check valve leaking	• Use pump setting gauge in test position to determine which valve is leaking. Fluid falling then rising in the gauge indicates suction check valve, fluid level remaining constant in gauge indicates discharge check.
	Chemical filter clogged	Replace filter element or clean filter.
	Return spring broken	• Remove front coverplate (#6). Observe pump running. If plunger (#8) not fully engaging or following the cam,
	Plunger sticking	stop the pump and check for broken spring or sticking plunger. Replace spring (#9) or lubricate plunger.
	 Stroke limiter set to zero or very short stroke 	• With Pump running, adjust stroke limiter (Loosen (2) #6D screws and adjust using tab #6B), to allow a longer pump stroke. Always use a full stroke if possible. Reduce output by adjusting timer settings, then use stroke limiter for fine tuning pump output.
Premature seal failure	Chemical compatibility	 Check the plunger first. If plunger is scored or damaged, replace plunger and seal.
		If seal still fails, change to different seal material.
	Abrasive material in chemical	Install suction filter.
	Bushing (#4C) worn	Replace bushing part # SE-MT-1-B.
Chemical leakage	 Damaged or leaking suction line, 	Prior to repair:
	discharge line or seal failure	• Open the timer box and turn the timer to the "OFF" position.
		Close Isolation ball valve "B" between pump setting gauge and chemical tank (see Diagram
		1 on page 3).
		• Close isolation ball valve "A" between pump and pump setting gauge (see Diagram 1 on

NOTE: Item numbers referenced are in the Suggested Pump Installation and System Setup Diagram and Pump Breakdown of IOM