

TROUBLESHOOTING WATER SYSTEM

NOISES AND VIBRATIONS

Loose blower belts or pump belts	Adjust or replace belts
Blower or drive belts out of alignment	Align and adjust belts
Hog Head rotation extremely high	Turn head rotation dial counterclockwise to reduce head speed
UHP pump pulley out of balance	Balance the pulley

HOG ARM WON'T RAISE

Float mode activated	Disengage float function
Hydraulics not engaged	Engage PTO to activate hydraulic system
Hydraulic fluid low	Add fluid to the hydraulic fluid reservoir
Hose or fitting broken or leaking	Tighten loose fitting or replace broken hose or fitting

SPRAY BAR DOESN'T SPIN OR SPINS SLOWLY

Hydraulics not engaged	Make sure PTO is engaged to activate hydraulic system
Debris packed around thru-shaft or spray bar	Clean thru shaft or spray bar
Blast Head belt worn out	Replace blast head belt
Hog Head shroud is concave and not convex	Repair or replace shroud
Speed dial control is shut off	Turn the speed dial clockwise
Electric connection is unplugged or no voltage to coil	Check that LED light on coil is lit and repair circuit or replace coil as necessary
Dirt shield is too tight	Remove dirt shield and install new dirt shield only finger tight

FLUCTUATION OR PULSING OF 40K GAUGE OR INLET PRESSURE GAUGE

Valve may be pitted or cracked	remove valve and check seats for damage - replace or rebuild
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Leaking packing	determine which is leaking and change, flush and replace
PTO slipping	allow PTO to cool and make adjustments to tighten PTO

WATER LEAKS

Hose fitting indicator port leaking – fitting loose	Tighten fitting or replace hose and fitting
Fluid end manifold leaking at rectangular hole in manifold block – Stuffing box seal is worn out	Replace stuffing box ring seal
Fluid end manifold leaking at round hole on top of manifold block – Valve seals worn	Replace valve seal or valve
Weep holes dripping at high pressure hose connection on thru-shaft motor – Loose swivel nut	Hand tighten swivel nut
Leaking swivel seal	Remove spent seal, check shaft nipple, clean thoroughly and replace with new seal
Cracked swivel or thru-shaft	Remove shaft assembly and disassemble to inspect shaft and replace if damaged or cracked on nipple end

HIGH PRESSURE SYSTEM – LOW INLET PRESSURE OF 30 PSI OR LESS

Dirty Filters	Change filter bag and cartridge
Low or no inlet water pressure	Check to see that charge water pump is on and supply valve is open
Empty Water Tank	Fill tank with water
Clogged impeller on pump	Disassemble pump face and clean impeller or replace with a new impeller
Cracked Water line allowing air to be sucked in	Check and find any leaks and repair
Low voltage (electric) or hydraulic fluid flow to charge water pump	Be sure batteries on pump or truck are charged or check hydraulic fluid level and flow
Debris in water line from tank	Flush or replace with new line

HIGH PRESSURE SYSTEM – LOW OUTLET PRESSURE

Insufficient engine RPM	Raise RPM of engine
Warn or blown nozzles	Change nozzles
Oversized nozzles	Refer to chart to correct nozzle pattern
Leaks – hoses, fittings, nozzles, pump valves or seals	Tighten or replace, check valves for heat indicating internal bypass
Worn or missing button seal between spray bar and shaft	Replace with new button seal
Air lock in fluid end	Remove rupture disc assembly or side port fitting, engage pump and run up to high RPM to remove air from the manifold
Low inlet water pressure	change dirty water filters - cartridge & bag
Low or no inlet water pressure	check to see that water charge pump is on and valve to charge pump is open
PTO slipping	allow PTO to cool and make adjustments to tighten PTO
Leaking packing	determine which is leaking and change, flush and replace
Leaking or cracked valves	check face of manifold for heat to find leaking valve and replace or rebuild
Shut-off (dump valve) cartridge leaking	remove return hose and check cartridge, if leaking remove diffuser tube and replace cartridge
By-pass valve cartridge leaking	remove diffuser tube and replace cartridge
Leaking swivel seal	Remove spent seal, check shaft nipple, clean thoroughly and replace with new seal
Cracked swivel shaft	remove shaft assembly and disassemble to inspect shaft and replace if damaged or cracked on nipple end