

## MACHINE TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Poor or no water pick-up	Squeegee out of adjustment	Adjust squeegee
	Debris caught on squeegee	Remove debris
	Worn squeegee blades	Rotate or replace squeegee blades
	Vacuum hose clogged	Clear obstruction from hose
	Vacuum hose disconnected from squeegee or recovery tank	Reconnect vacuum hose
	Vacuum hose damaged	Replace vacuum hose
	Recovery tank not sealed	Place recovery tank dome on tank. Replace damaged gaskets.
	Foam filling recovery tank	Empty recovery tank Use less or different detergent Use defoamer
Vacuum motor does not run, or runs slowly	Recovery tank full	Drain recovery tank
	Recovery tank float system dirty	Clean float system
	Circuit breaker tripped	Reset circuit breaker
	Loose connection	Check motor wires and connections
	Faulty vacuum switch	Replace switch
	Worn vacuum motor brushes	Replace brushes, check commutator
Poor scrubbing performance	Debris caught in scrub brushes	Remove debris
	Worn brushes or pads	Replace brushes or pads
	Improper detergent, brush or pad used	Contact equipment or application specialist
	Low scrub brush down pressure	Increase brush pressure
	Low battery charge	Charge batteries
Brush motors do not run, or runs slowly	Circuit breaker(s) tripped	Reset circuit breaker(s)
	Loose connection	Check motor wires and connection
	Faulty brush motor contactor	Replace contactor
	Worn brush motor brushes	Replace brushes, check commutator

## MACHINE TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Little or no solution flow to the floor	Solution tank empty	Fill solution tank
	Solution flow turned off or set too low	Turn on or increase flow setting
	Solution strainer plugged	Clean solution strainer
	Solution hoses obstructed	Clear obstruction from hose
	Solution solenoid valve obstructed or stuck	Clean or replace
	Vent hole in solution tank lid obstructed	Clear obstruction from vent hole
No power to machine	Battery disconnected	Check all battery cable connections
	Emergency shut-off activated (If included)	Reset
	Battery connections corroded	Clean connections
	Faulty main contactor	Replace contactor
	Faulty key switch	Replace switch
Little or no propel	Low battery charge	Charge batteries
	Wheels spin	Decrease brush pressure
	Controller overheated	Allow cool down period Adjust brush shroud if needed
	Loose connection	Check motor wires and connection

<b>Troubleshooting</b>		
<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
Will not start	No fuel Dirt in fuel line Blown head gasket Engine overload Dirty air cleaner Faulty spark plug Fuel system out of adjustment Defective ignition	See engine owners manual for servicing  NOTE: Only properly trained Service Technicians should adjust or repair fuel systems!
Hard to start	No fuel Dirt in fuel line Engine overloaded Dirty air cleaner Faulty spark plug Spark plug or head bolts loose Blown head gasket Timing, coil or valves need adjusting Regulator needs adjustment Insufficient vacuum	See engine owners manual for servicing  NOTE: Only properly trained Service Technicians should adjust or repair fuel systems!
Lacks power	Improper valve clearance Dirt in fuel line Faulty spark plug Incorrect oil level Worn rings	See engine owners manual for servicing  NOTE: Only properly trained Service Technicians should adjust or repair fuel systems!
Odor of burned rubber	Belt out of adjustment	See "Adjusting Belt Tension"
Engine overheats	Incorrect oil level Engine overloaded Build up of dirt inside engine shroud	See engine owners manual for servicing
High fuel consumption	Faulty spark plug Dirty air cleaners Improper fuel system adjustment	Clean, adjust/replace spark plug See engine owners manual for servicing NOTE: Only properly trained Service Technicians should adjust or repair fuel systems!
Engine stops suddenly	Out of fuel Faulty spark plug Pad not centered on pad driver Incorrect pad size Low oil level	Change fuel cylinders Clean, adjust/replace spark plug Center pad on pad holder Replace with proper pad Add oil (see Changing Oil notes)
Excessive vibration	Loose bolts on engine or deck Pad not centered or damaged pad Incorrect oil level Engine overloaded Dirty filters Faulty spark plug	Inspect and tighten all bolts Center or replace pad(s), lighten Check and adjust oil level See engine owners manual for servicing Clean or replace filters Check adjust/replace spark plug