

TROUBLESHOOTING



The following contains general troubleshooting problems and solutions for Merit flat saws, please refer to the Owner's Manual that is specific to your saw. If you do not have a manual or do not know the model of your saw, please check the ID Plate located in the lower rear control panel near the battery.

For additional questions, or to request a copy of the Owner's Manual, please email: Service@icsdiamondtools.com.

Problem	Possibilities	Solution (see "How to")	How to
Saw will not raise, or rises slowly out of the cut	Pump pressure set too low	Increase pump pressure	Pump pressure can be increased or decreased by adjusting the pressure relief setting located on the pump manifold. Make small adjustments and recheck - Add blade guard(s) to the front of the saw for extra load weight.
	Low hydraulic oil/leaking oil	Replace lift pump	
	Bad lift pump	Call service for support	
	Loss of 12v power supply	Check connections to the solenoid Check ground connection to the pump Check connections at the battery posts Check solenoid Check battery charge	Make sure there are no cracks or breaks in the copper solenoid bracket, and battery posts/connections are tight and free of debris. Test solenoid using a multimeter or other device, check the battery for proper voltage.
	Hydraulic oil leak or low oil level	Check fittings and hoses for leaks, and check oil level in reservoir	Inspect the fittings, connections and along the hose routing for oil leaks and seepage. Note: always support the weight of the saw when working with a raised hydraulic system (under pressure). Reservoir contains 1 qt of ATF.
	Standard (Mechanical lever) models- valve is partially open when lever is in the closed position	Make sure red lever (under control panel) is in the closed position Review Raise/Lower instruction sheet, call service for assistance	Remove the rear panel to access the red lever. Loosen the 5/16 bolt and nut holding the red lever to the main body assembly. Push red lever forward until the valve has reseated. Tighten bolt and nut on red lever to secure to main body.
	Button Style models (electric version) - dump valve bypass is stuck open	Replace valve	Lower the saw completely to relieve all pressure in the valve and system. Locate the valve from the manifold and replace. See technical sheets.
Faulty check-valve in the pump manifold	Remove check-valve and inspect for debris that may cause stuck valve or faulty spring	Lower the saw completely to relieve all pressure in the valve and system. Remove the raise control valve and fitting to expose the check-valve inside of the pump manifold. Using a 3/8 allen wrench, turn clockwise and remove set screw. Visually inspect for debris. Compressed air may be used to clear. See technical sheets.	

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Problem	Possibilities	Solution (see "How to")	How to
Engine overheating Cooling fan won't come on	Blown fuse	Check fuse in wire harness (40A)	Check wire harness directly from the fan to the battery. Remove fuse and visually inspect.
	Bad temperature sensor	Bypass (jump) sensor - trigger point is 180 degrees F	The temp sensor provides a ground to the fan. With the key in the "on" position, test by using a jumper wire from any solid ground point to the sensor. Caution: ensure fan and fan blades are clear, fan may start up with this procedure.
	Bad relay	Replace relay	Ensure the relay has proper ground and voltage. Replace relay if issue persists.
	Loss of 12v power supply	Inspect wire harness and post connections, corrosion should not be present on any terminals	Make sure there are no cracks or breaks in the copper solenoid bracket, and battery posts/connections are tight and free of debris. Test solenoid using a multimeter or other device, check the batter for proper voltage.
Engine overheating Mechanical fan turning slow or not turning	Loose belt	Tighten belt	Locate the blue tensioner - adjust tension per technical sheet.
	Broken belt	Replace belt	See parts manual for required parts.
	No belt	Replace belt	See parts manual for required parts.
	Broken right angle shaft	Replace right angle drive box	See parts manual for required parts (additional parts may be required).
	Worn fan blades (damaged)	Replace fan	See parts manual for required parts (ensure correct fan orientation).
Saw won't roll in "off" position	Differential is locked	Pull differential cable to the neutral position	The differential cable should be pulled into neutral and twist to lock lever in position.
Positraction is locked	Positraction will not disengage	Release the positraction cable	Push "Pull" cable down to disengage.
	Concrete slurry build-up	Ensure the shift fork spring releases	Pulling the fork may be required to release the spring. Channel locks or pliers may be needed. Lubricate with oil or WD-40.

Problem	Possibilities	Solution (see "How to")	How to
Saw won't start	Emergency stop engaged	Disengage emergency stop	Pull and twist to disengage.
	Contact blocks damaged	Inspect contact blocks and connections	Remove contact blocks from panel, inspect for continuity.
	Dead battery	Have battery tested	Use multimeter, or have tested.
	Loose cables	Ensure clamps are clean and tight - check power and ground on engine connections	Inspect clamps and clean if necessary, visually inspect power and ground connections on the engine.
	Bad starter	Have starter electrically inspected	Remove starter and have tested.
	Bad ignition switch	Inspect using multimeter or replace switch	Check for continuity and connectivity. Replace if necessary.
	ECU connections	Visually inspect pins for corrosion - replace ECU if issue persists	Remove main plug - ensure all pins are clean and seated (not bent or missing).
	Low/no fuel	Inspect fuel tank (not gauge) for fuel	Remove fuel cap and visually inspect inside of the fuel tank.
	Fuel pump	Check voltage. Replace if voltage is supplied and does not engage	Turn key on, fuel pump has audible sound.
Clogged/dirty fuel filter	Inspect fuel filter / replace if necessary	Clean filter housing to visually inspect fuel flow.	



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