

Troubleshooting

FAULT	POSSIBLE REASON	CHECK / REMIDY
NO VOLTAGE	Faulty Capacitors	<ul style="list-style-type: none"> • Test Capacitor • Replace Capacitor
	Faulty Rotor Diode AND/OR surge suppressor	<ul style="list-style-type: none"> • Check Diode or replace
	Faulty stator exciter	<ul style="list-style-type: none"> • Check if the stator/rotor exciter circuit is open
	Main winding fault	<ul style="list-style-type: none"> • Check stator/rotor windings resistances • Check stator/rotor windings insulation resistance
	Demagnetized machine	<ul style="list-style-type: none"> • Excite the alternator by applying a 6-12 volt current across the exciter terminals for a second, respecting the polarities. (engine is running)
	Broken connections	<ul style="list-style-type: none"> • Check all connections
LOW VOLTAGE	Reference voltage is not set at desired value	<ul style="list-style-type: none"> • Adjust voltage with potentiometer «V» on the AVR;
	Under-frequency protecton not properly adjusted	<ul style="list-style-type: none"> • Check / adjust, the value of under-frequency protection with the trimmer "UF" (As 6.4.4: "Setting the under speed at 50 (60)Hz")
	low Generator Speed	<ul style="list-style-type: none"> • Adj Flow Regulator
	Faulty Capacitor	<ul style="list-style-type: none"> • Replace Capacitor
HIGH VOLTAGE	Hydr Motor Speed to high v	<ul style="list-style-type: none"> • Adjust Flow Regulator «
	Sensing supply open circuit	<ul style="list-style-type: none"> • Check the sensing connections
	Faulty Flow Regulator	<ul style="list-style-type: none"> • Replace Flow Regulator
VOLTAGE OSCILATIONS	AVR stability incorrectly set	<ul style="list-style-type: none"> • Adjust stability with ST trimmer
	Motor speed unstable	<ul style="list-style-type: none"> • Check with the frequencymeter if there are oscillations in Motor speed
	Faulty Flo Regulator	<ul style="list-style-type: none"> • Replace the Flow Reg.
VOLTAGE drops when Load is applied	Hydr Motor worn	<ul style="list-style-type: none"> • Replace Motor
	Hydraulic Flow marginal or Hydr Pump worn	<ul style="list-style-type: none"> • Check Flow,replace Motor or Pump
	Faulty Flow Regulator	<ul style="list-style-type: none"> • Replace Flow Regulator
Low VOLTAGE at correct Speed	One Rotor Windings open	<ul style="list-style-type: none"> • Check Resistance,Replace rotor
	Defective Rotor Diode	<ul style="list-style-type: none"> • Check Diodes and r e p l a c e
	Faulty Flo Regulator	<ul style="list-style-type: none"> • Replace the Flow Reg.