Basic Instructions On The Static AVR's

This Green Light Indicates that the AVR is ON

This Red Light Indicate that the AVR is working below working Frequency

The Stability Adjustment is used to change the way the AVR reacts to load Changes. You need to adjust the stab by changing generator load and the adjusting the STAB control for minimum movement on a Analog Voltmeter.

As the engine Stops, the U/F LED Turn ON indicating that the AVR is turning OFF. Normally you have no need to change this setting. But with U/F adjustment you can change when the AVR Voltage Roll-Off Frequency start to turn OFF the AVR. Normally it is at 57 Hertz when working at 60 Hz. You can see this by looking at the U/F Lamp.

The Static Voltage Regulator usually works the first time with no problems after installation. But after 25 years of experience I like to tell you about the most common problem I had.

1. - The customer says that the output voltage of the generator is only 1/2 of normal. Specially if the generator is wired to work at 480 Volts output. The problem here is that the INPUT sensing wires of the AVR is not INSTALLED un the First STAR, but on the output power lines. SOLUTION install them on the FIRST START 240v input Max.

2. - The customer says that he has no power at all coming out of the generator. The SOLUTION is to REVERSE the wires F+ F- on the slip rings.

3. - Another problem is that the generator has no residual voltage to start the build-up process. SOLUTION FLASH the Generator.

4. - If you need help call Willy at 1-800-541-7677. We can work it out on the phone.

Changing the U/F set point by removing the jumper in the controller. ON for 60 OFF for 50Hz. You can also add a 1K Ohm 1/2 wire resistor for remote voltage adjustment.
Slip rings on Generator

If it does not work the first time, swap the wires going to the slip rings. It can be connected wrong.

The AC Input of the regulator is from 190 to 277 Volts.

The Voltage Regulator needs from 5 to 6 Volts residual Voltage to work. If you don't have residual voltage you have to flash the Generator.

Different ways of installing AC inputs of the Regulator

If you need flashing, use SS500 Automatic Flashing Module.

Caution: High Voltage will kill you if you don't know what you are doing. Call someone that can help you. 1-800 541-7677.
Open : 50Hz  
Close : 60Hz

EXT. VR  
1K Ohm

EA45AF PCB

J1 close : enable Low frequency protection  
open : disable Low frequency protection

J2 close : full wave  
open : half wave

J1

J2

1 2 3 4 5 6 7
half wave

EA45AF PCB

J2 open : half wave