



GENERATOR SETUP

AUTOMATIC FREQUENCY
CONTROL
WHEN NEW PCB IS FITTED



Automatic frequency control



- The following steps show how to re-set the automatic frequency control
- This ensures the generator is running at its most efficient throughout the power range
- The automatic frequency control should be re-adjusted whenever a new control PCB or a new HT transformer is installed



CAUTION

IN ORDER TO CARRY OUT THE FOLLOWING
ADJUSTMENTS THE GENERATOR CABINET
DOOR WILL NEED TO OPEN WHEN THE
GENERATOR IS RUNNING

HIGH VOLTAGES ARE PRESENT INSIDE THE
GENERATOR CABINET

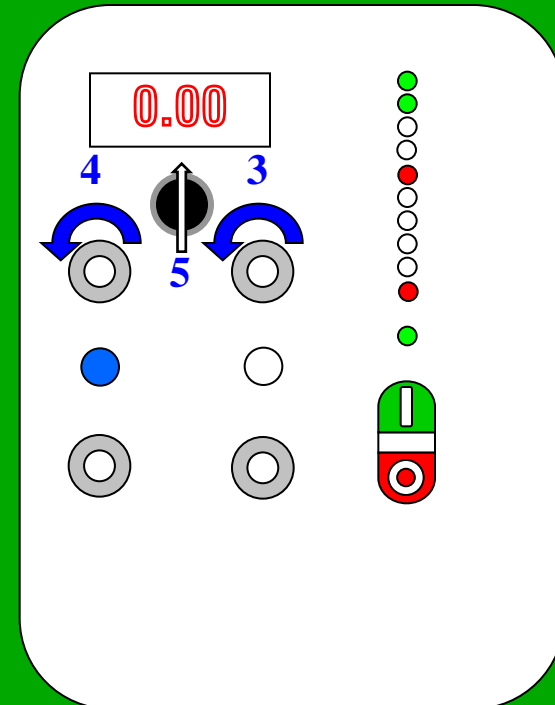
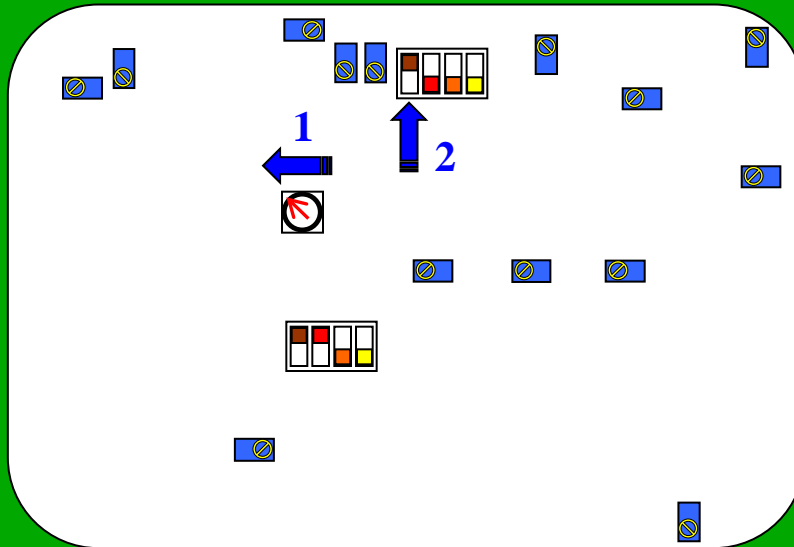
ADJUSTMENTS SHOULD ONLY BE MADE BY
QUALIFIED PERSONNEL



Automatic frequency control



1/4 - Generator into manual frequency & local control mode



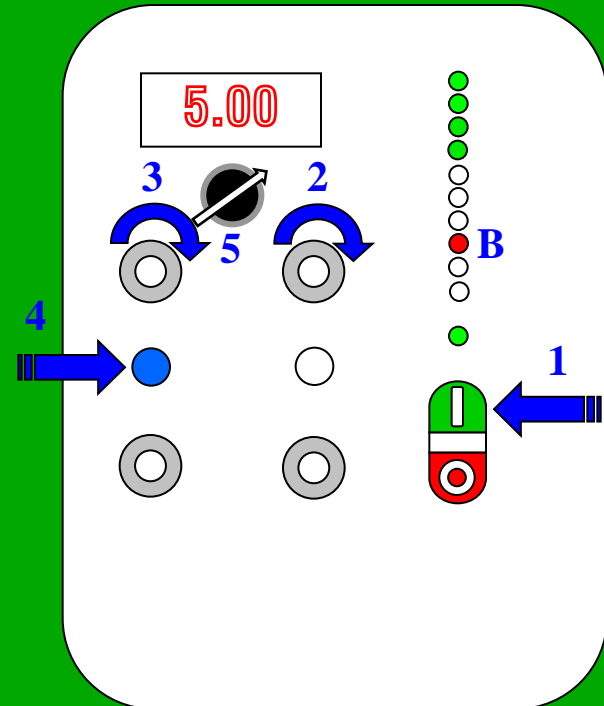
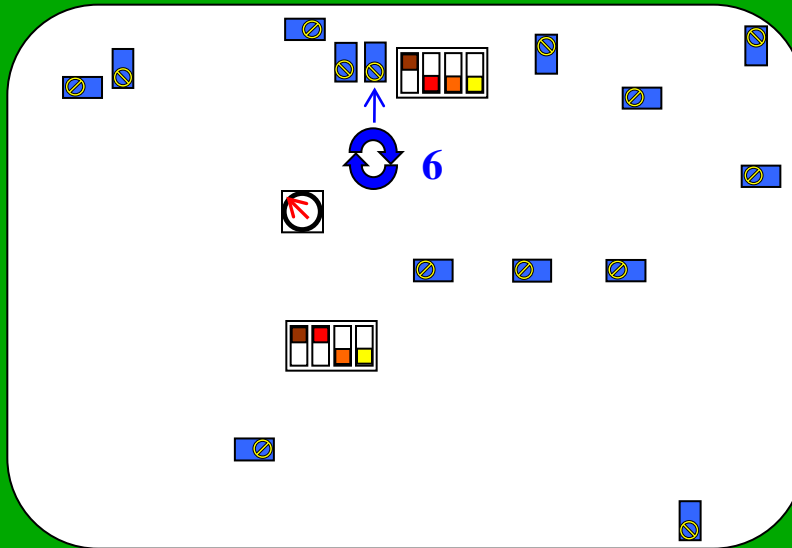
- 1 – Ensure SW2 is in position 1 (local control)
- 2 – Ensure SW1 A is in the UP position (manual frequency control)
- 3 – Turn power dial to zero
- 4 – Turn frequency dial to zero
- 5 – Ensure selector switch is set to TRUE power (↑)



Automatic frequency control (cont)



2/4 - Obtain maximum power (manual frequency mode)



1 – Press start button

2 – Increase power dial to MAX

3 – Increase frequency dial until full power is displayed on digital meter

NOTE: If generator goes into mismatch (B) follow steps below

4 – Reset generator

5 – Move selector switch to REACTIVE power (↗)

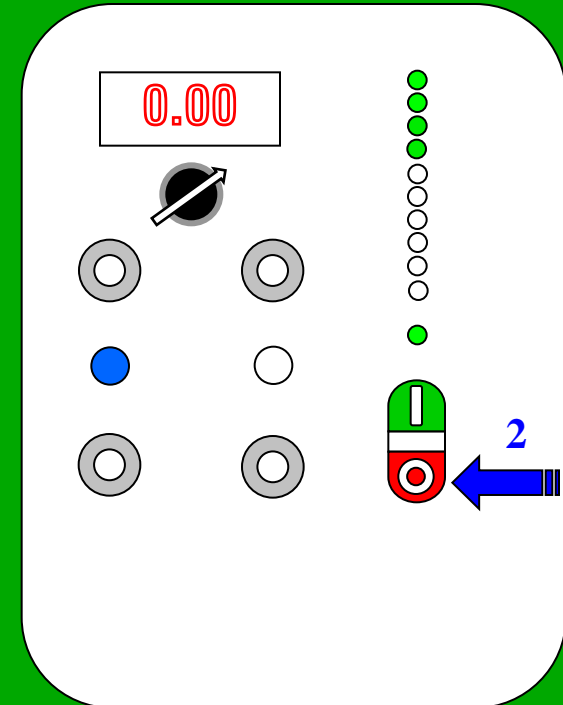
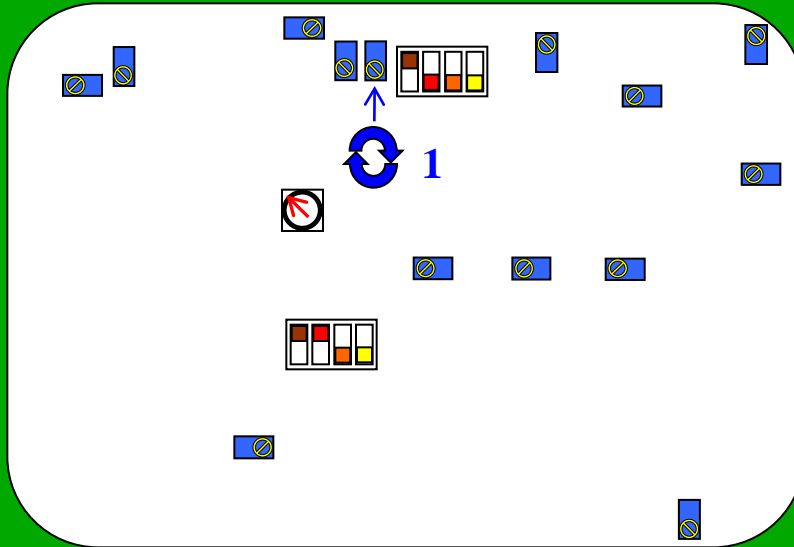
6 – Adjust RV3 so reactive power meter reads 0.00 +/- 1.00 and continue from step 3.



Automatic frequency control (cont)



3/4 - Adjust reactive power to zero



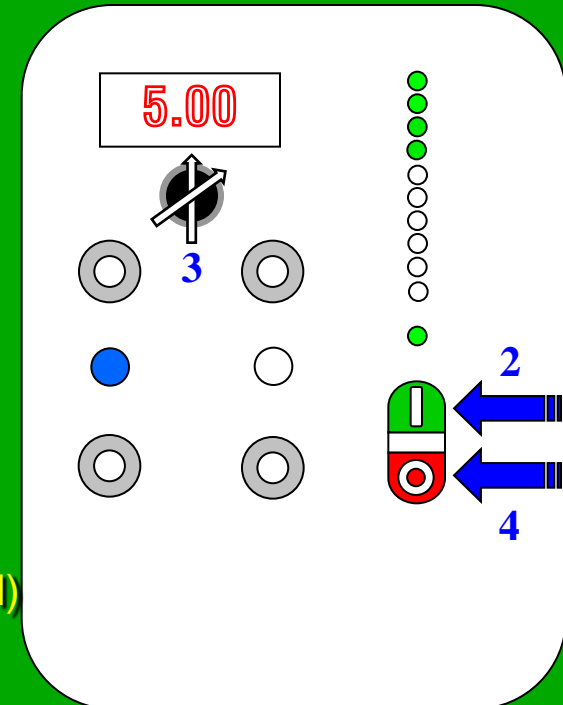
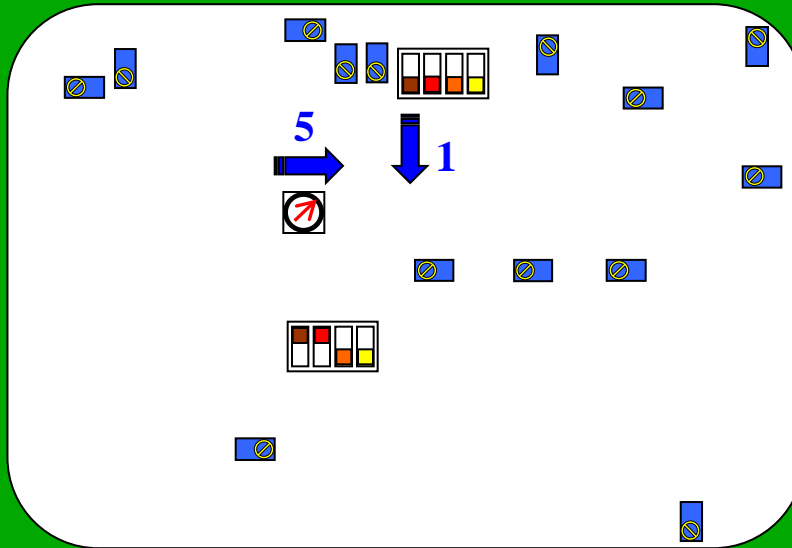
1 – Adjust RV3 until 0.00 ± 0.03 is shown on Reactive power meter (A)

2 – Press stop button



Automatic frequency control (cont)

4/4 - Generator into automatic frequency mode & achieve full power



1 – Put SW1 A in the down position (auto frequency control)

2 – Press start button,

3 – Using selector switch ensure digital meter reads full power & reactive power reads 0.00 +/- 0.05. If not return to step 2/4.

3 – Press stop button

4 – Put SW2 back into original position as required (1 local, 2 proportional, 3 remote)

Automatic Frequency control setup is now complete