

Phase Offset Adjustment

If the synchroscope steadies at other than 0 (zero) degrees (in the CHECK mode), the phase offset potentiometer may need adjustment.

1. Note the potentiometer position before changing the setting.
2. Turn the potentiometer as necessary to center the indicator of the synchroscope.

Voltage Offset Adjustment (Voltage Matching Model Only)

If the panel meters show that the generator voltage is different from that of the bus, the voltage offset potentiometer may need adjustment. Make sure that the panel meters are accurate, calibrated, and at operating temperature. Most panel meters are accurate to $\pm 3\%$ and are not temperature compensated.

1. Note the potentiometer position before changing the setting.
2. Disconnect all wiring from the voltage matching terminals (16 through 19) to the voltage regulator.
3. Operate the synchronizer in the CHECK mode.
4. Attach the leads of an ohmmeter to synchronizer terminals 16 and 17.
5. Turn the voltage offset potentiometer counterclockwise and make a note of its setting when the ohmmeter first indicates a relay contact closure (the voltage matching circuit is issuing a raise command to the voltage regulator).
6. Repeat the procedure with the ohmmeter leads on terminals 18 and 19 (lower command). Turn the potentiometer clockwise and note the setting.
7. Adjust the voltage offset potentiometer to the correct setting, halfway between the two settings.

IMPORTANT

If the voltage offset potentiometer is misadjusted, the generator's voltage regulator may drive in the opposite direction from what is needed. The voltage offset potentiometer sets the voltage match window. The potentiometer must be adjusted so that the line voltage is contained within the window. Otherwise, the voltage regulator on the generator will be run in the opposite direction of the voltage mismatch. This will take the generator off line on reverse current.

8. Attach the original wiring to the voltage matching terminals.

IMPORTANT

When the breaker close signal is initiated, the voltage match circuit is disabled.

For operation of the synchronizer once it has been adjusted and tested, set the mode switch to the RUN or PERMISSIVE position. The ENABLE indicator will illuminate while the phase (and voltage in the voltage matching model) are near breaker closure limits. After the generator set is paralleled, under control of the synchronizer, the synchronizer is disabled.