SERVICE BULLETIN

DATE: 12 JUNE 2011 **SERVICE BULLETIN #261**

MODELS: BE GASOLINE GENERATOR MODELS 8.0BEG – 15.0BEG and 8.0SBEG – 14.0SBEG

SUBJECT: AC VOLTAGE REGULATOR ADJUSTMENTS

The above model generators now have a new model voltage regulator #054596. This is illustrated below. The new regulator has a number of new settings/adjustments listed below. This regulator **CANNOT** be used to replace the earlier style regulator #046446 used with earlier BE models.

VOLTAGE POTENTIOMETER – The output voltage of the generator can be adjusted using this potentiometer with the generator running at its selected speed (frequency) by turning the adjustment until the desired voltage is obtained. NOTE: If the voltage is set higher than the (selected) rated voltage, the generator may be damaged.

FREQUENCY – A JUMPER on the regulator is connected to two of the three pins depending on whether you select 60 hertz or 50 hertz operation. NOTE: this does not automatically change engine speed. Engine speed change is performed using the adjustment on the belt driven mechanical governor.

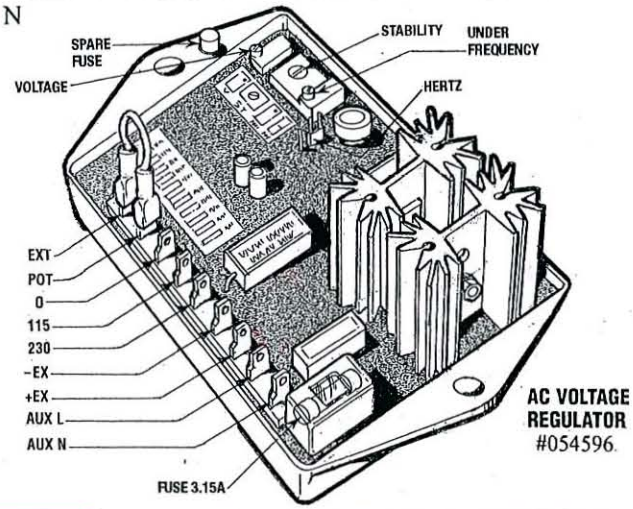
STABILITY – If at no load or while under load with steady engine speed AC output voltage fluctuation is experienced, adjust the STABILITY potentiometer. This modulates the reaction time of the regulator to external inputs, thereby eliminating any instability in the AC generator-load system.

UNDER FREQUENCY – With the generator running at rated speed and producing the desired voltage, using the mechanical governor reduce engine speed by 4 hertz. Adjust the Under Frequency potentiometer until the AC output voltage of the generator starts to drop. Then restore engine speed to the original rated speed. Note: This is a protection circuit and will terminate excitation should the generator speed drop 4 or more hertz.

VOLTAGE SENSING – The voltage sensing connections are "0" and "115" when selected output voltage is between 100V to 140V. Connect between "0" and "230" when selected output voltage is between 200V and 280V.

EXCITER WINDING – Proper polarity in this circuit MUST be maintained. BLACK to – Ex and RED to + Ex. Failure to do so may damage the regulator.

AUXILIARY WINDING – Connect the correct color coded wires to the terminals. Green or gray to Aux L and Blue or Brown to Aux N



AC VOLTAGE REGULATOR #054596

WESTERBEKE

WESTERBEKE CORPORATION • TEL. 1-508-823-7677
MYLES STANDISH INDUSTRIAL PARK,
150 JOHN HANCOCK ROAD, TAUNTON, MA 02780-7319