

SERVICE BULLETIN

Original Issue Date: **10/96**



Model: **4/5CKMR, 7CCKMR, 10/12CZ, 13.5/14/18.5/20/21/24CCOZ, 32ROZ, 6.5RMY, 6/10/15ROZ, and 10/12/18RZ**

Market: **Mobile, Marine, and Small Standby**

Subject: **Kohler PowerBoostä V Voltage Regulators (A- and B-258296)**

Kohler Generator Division published this bulletin to better inform customers of the differences between the A- and B-258296 version PowerBoostä V voltage regulators. Consult the generator set Service Manual for adjustment procedures not found in this bulletin.

To determine what version voltage regulator is installed on your unit, see Figure 1 and Figure 5. The visual differences include terminal strip identification and assembly part number identification.

⚠ WARNING	
	
Hazardous voltage.	Moving rotor.
Can cause severe injury or death.	
Operate generator set only with all guards and electrical enclosures in place.	

⚠ WARNING



Accidental starting.
Can cause severe injury or death.

Disconnect battery cables before working on generator set (disconnect negative lead first and reconnect it last).

Disabling generator set. Accidental starting can cause severe injury or death. Disconnect battery cables (remove negative lead first and reconnect it last) to disable generator set before working on the generator set or connected equipment. The generator set can be started by the remote start/stop switch unless this precaution is followed.

Grounding generator set. Hazardous voltage can cause severe injury or death. Electrocution is possible whenever electricity is present. Open main circuit breakers of all power sources before servicing equipment. Configure the installation to electrically ground the generator set and electrical circuits when in use. Never contact electrical leads or appliances when standing in water or on wet ground, as the chance of electrocution is increased under such conditions.

PowerBoostä V (A-258296 Version)

The Kohler PowerBoostä V is a versatile volts per hertz voltage regulator for use on both single- and three-phase, 50- and 60-Hz generators.

The power circuit consists of a diode/SCR full-wave bridge to provide the generator field excitation.

Power requirements: 140-300 vac.
Sensing: 190-277 vac, 240 nominal.

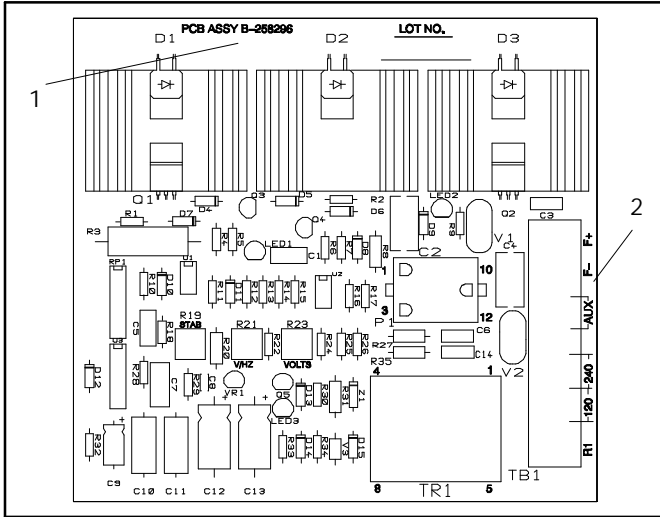
The voltage regulator provides both a plug connector and terminal strip for input and output connections.

Routing	Service Manager	Sales Manager	Parts Manager	Technician No. 1	Technician No. 2	Technician No. 3	Return This to
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PowerBoostä V (B-258296 Version)

The B-version voltage regulator includes all the features of the A-version voltage regulator plus provisions for both 120- and 240-volt sensing. This allows the regulator to be used on 100 to 120 volt or 200 to 240 volt, 1-phase models as well as all 3-phase models.

An optional remote rheostat (10K-1/2 watt) can be connected across terminals R1 and F+.



1. Part number identification
2. Terminal strip identification

Figure 5. B-258296 Voltage Regulator

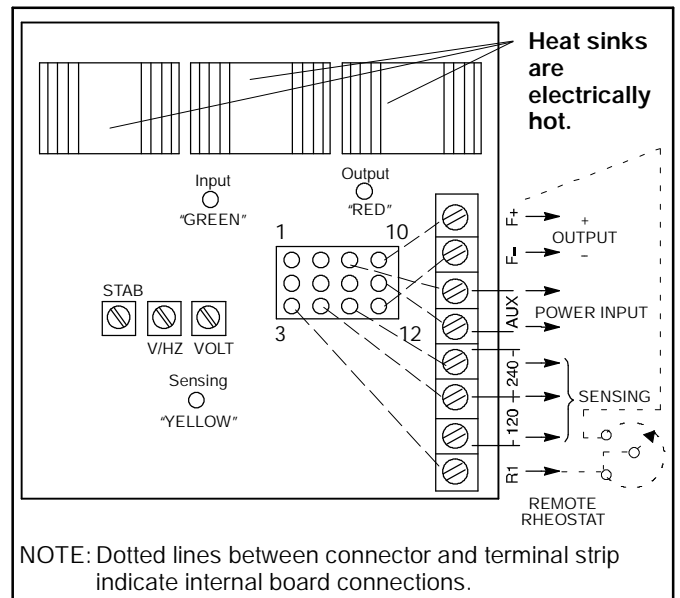


Figure 6. B-258296 Voltage Regulator Connections

Terminal Strip	Plug Connector
1	3
2	N/C
3	6
4	9
5	11
6	7
7	12
8	10, 2

NOTE: To use plug connector, use terminal Kohler part number 241619.

Figure 7. B-258296 Voltage Regulator Connections

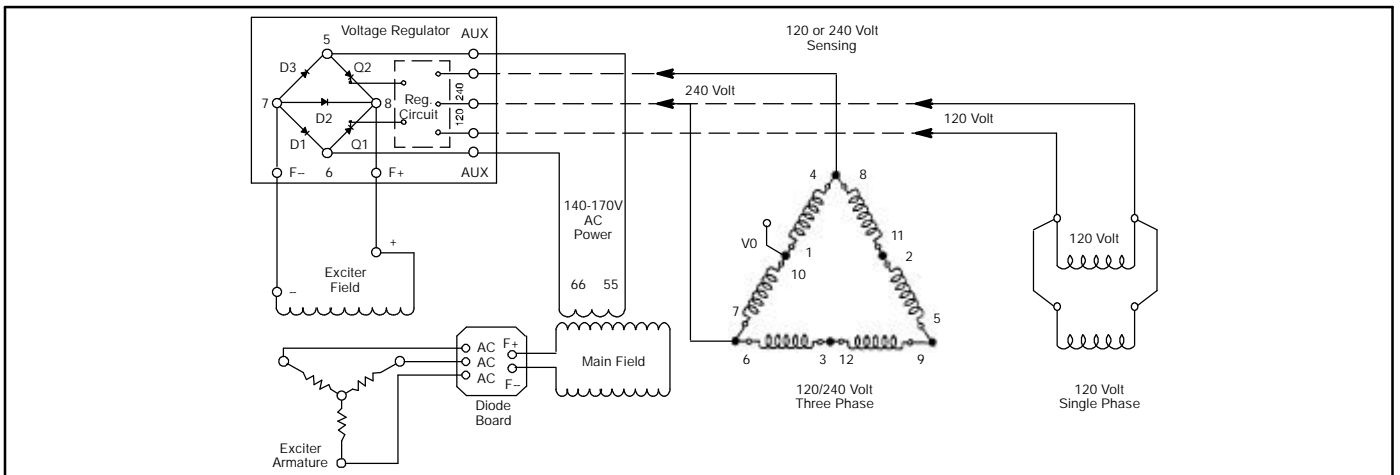


Figure 8. B-258296 Voltage Regulator Wiring