Mounting instruction

EVRP - 895

Regulator

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Instructions for 24V supply systems.

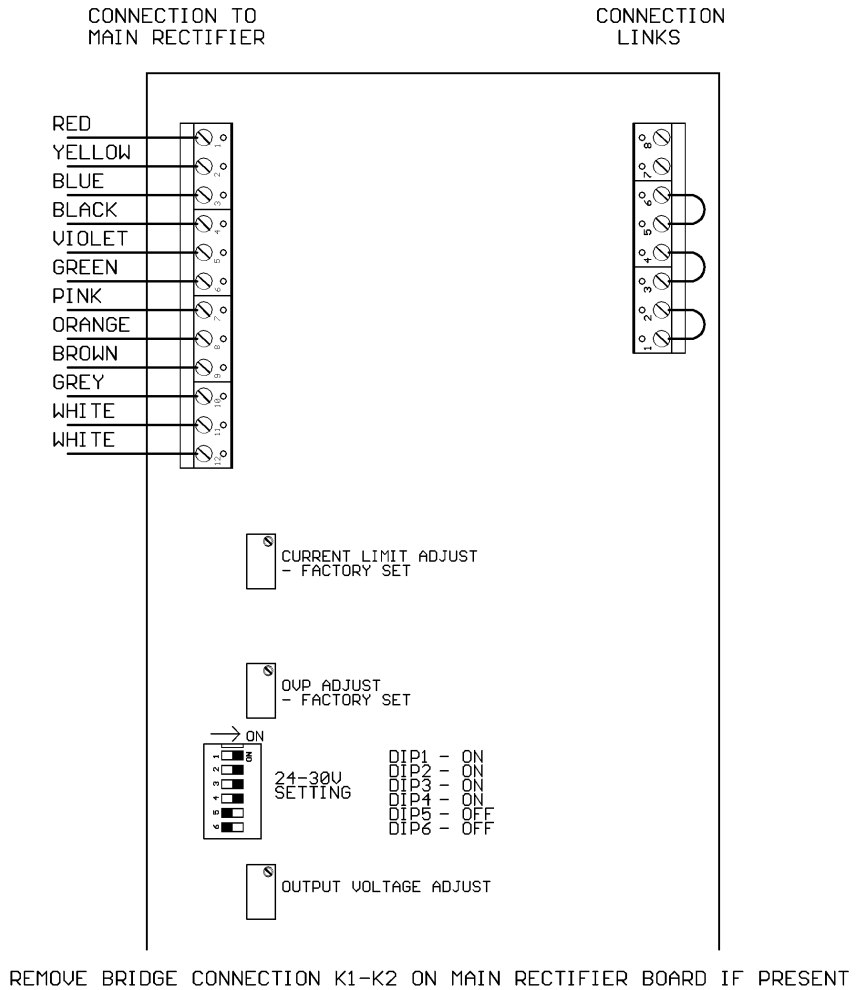
Dismounting the old regulator front:

Before dismounting any electronic units, the generator must be stopped, and other generators or battery units operating in parallel, must be disconnected in order to ensure that there is no live wires in the multi cable from the main rectifier.

- Remove connections to the front from the main rectifier by disconnecting the multi cable.
- Remove connections from control unit to transistor unit.
- Dismount control unit and transistor unit from the front.

Preparing the new regulator:

CONNECTIONS AND SETTINGS FOR 24-30V OPERATION:



REMOVE BRIDGE CONNECTION K1-K2 ON MAIN RECTIFIER BOARD IF PRESENT

- Mount the new regulator in place of the old control unit.
- Check that the 3 short circuiting links shown on the mounting diagram are still in place ready for 24-30V operation, as they were when factory mounted.

- Check that the DIP switches are set for 24-30V operation according to diagram.

Warning ! Setting DIP switches for operation at a higher voltage (100-150V or 200-250V) will damage the regulator.

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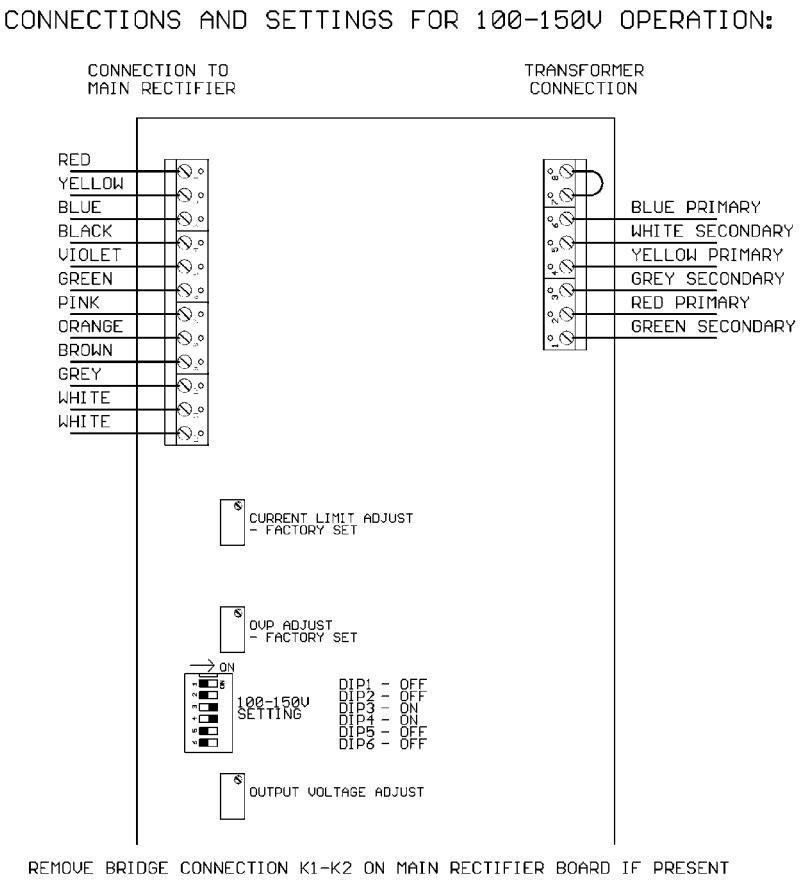
Instructions for 110V supply systems.

Dismounting the old regulator front:

Before dismounting any electronic units, the generator must be stopped, and other generators or battery units operating in parallel, must be disconnected in order to ensure that there is no live wires in the multi cable from the main rectifier.

- Remove connections to the front from the main rectifier by disconnecting the multi cable.
- Remove connections from control unit to transformer and transistor unit.
- Dismount control unit and transistor unit from the front, leaving the transformer mounted.

Preparing the new regulator:



- Mount the new regulator in place of the old control unit.
- Connect the transformer according to colours shown in the mounting diagram. First remove wire links occupying the terminals to be used, and place a single link according to diagram.

Warning ! Forgetting to connect transformer, and running with links fitted for 24-30V operation will damage the regulator.

- Set DIP switches for 100-150V operation. According to diagram.
- Check the connections and settings.

Warning ! Setting DIP switches for operation at a higher voltage (200-250V) will damage the regulator.

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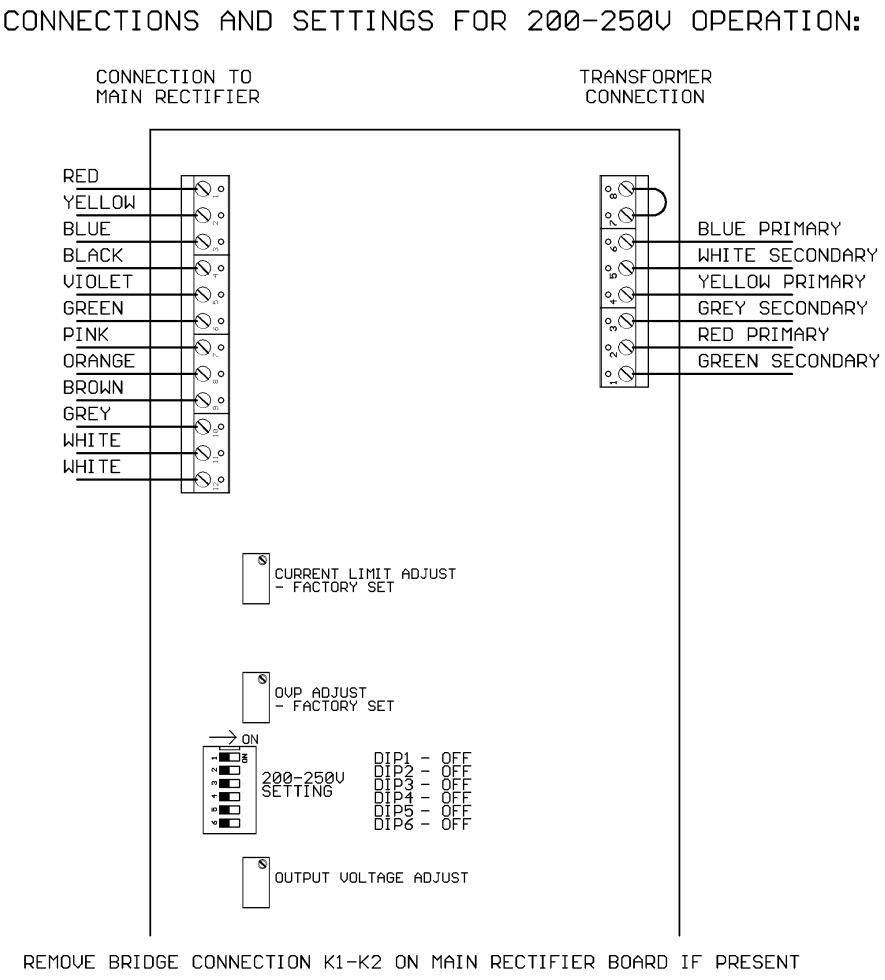
Instructions for 220V supply systems.

Dismounting the old regulator front:

Before dismounting any electronic units, the generator must be stopped, and other generators or battery units operating in parallel, must be disconnected in order to ensure that there is no live wires in the multi cable from the main rectifier.

- Remove connections to the front from the main rectifier by disconnecting the multi cable.
- Remove connections from control unit to transformer and transistor unit.
- Dismount control unit and transistor unit from the front, leaving the transformer mounted.

Preparing the new regulator:



- Mount the new regulator in place of the old control unit.
- Connect the transformer according to colours shown in the mounting diagram. First remove wire links occupying the terminals to be used, and place a single link according to diagram.

Warning ! Forgetting to connect transformer, and running with links fitted for 24-30V operation will damage the regulator.

- Set DIP switches for 200-250V operation. According to diagram.
- Check the connections and settings.

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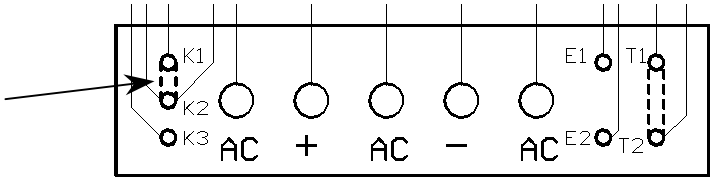
Connecting the regulator to the main rectifier:

- Remove any bridge connection or connection to switch between K1-K2, on the main rectifiers terminal board.



If it is necessary to have an off-switch, a 3-poled switch must be used rated for 4-10 Amp. It should be connected so it breaks the transformers primary connections in a 110/220 Volt system and so it replaces the three links in a 24 Volt system.

Warning ! Important !

Running with K1 and K2 connected, will **Damage** the new regulator.

Important ! Forced start of a 24V supply system that has lost the ability to start up, must be done by connecting the + terminal to **K1** through a lamp (max. 40W). Connecting + over to E1, as some has made it a practice must not be done, as E1 no longer is connected to K1 through the K1-K2 connection.

Connecting + to E1 will **Damage** the new regulator.

- Connect multi cable from main rectifier to terminals according to colour shown in the mounting diagram. If a multiple plug is mounted it must first be removed. Interchange of the two white wires has no importance. Instead of the pink wire old regulators may have a second red wire.

Removing of plug.

- Screws and clamp is removed, so the plug can be opened, the rubber nipple is kept in place.
- Take out the multiple plug from its casing, and cut of all cables.
- Wires are striped approx. 5 mm.

- The regulator is fitted with a 10 Amp. fuse. If your old regulator is fitted with a 6.3 Amp. fuse, the fuse can be replaced by a 6.3 Amp. fuse causing better protection.

This completes the mounting.

Now connections to other supply units and batteries can be re-established.

- During operation, running the motor above medium speed and with a small load, the voltage may be adjusted, on the potentiometer for voltage adjustment.
- The potentiometers for OVP- adjustment (Over Voltage Protection), and current limit adjustment are factory set and should not be adjusted.

(The current limit circuit will provide protection from overload if the resistor on the current transformer in the main rectifier is intact and as delivered from factory.)