

**V-Twin Mfg.**  
**Volt Tech Regulator**  
**Fits 1965-1977 XL; 1958-1969 FL-FLH**  
**Replaces Mechanical Regulator; 12 Volt**  
**VT No. 32-0619 Black; 32-0989 Chrome**

**This is a custom application and rider safety depends on proper installation. This product should only be installed by a knowledgeable and trained motorcycle technician. V-Twin Mfg. accepts no responsibility for improper installation.**

Installation Information for Volt Tech Voltage Regulator:

Volt Tech solid state voltage regulator is designed to replace stock 12 volt electromechanical (Bosch and Delco type) voltage regulators used with two brush Harley Davidson 12 volt generators. These generators were original equipment on all 1965 through 1977 XL, XLH, and XLCH 900 and 1000 cc OHV Sportster Twins and 1965 through 1969 FL, FLH 1200 cc OHV Electra-Glide Twins.

**NOTE:** Solid state electronic regulator design may cause generator ("GEN") light to remain lit at slightly higher RPM compared to using electro-mechanical regulator. This condition does not indicate defective charging system parts.

We suggest that you use universal voltage regulator bracket to mount this regulator, VT No. 31-0172.

This unit will give superior performance and long life when properly installed. Make sure the following electrical system checks have been completed before installation:

1. Make sure generator brushes are in good condition and dry. If not, replace with a new brush set.
2. Armature commutator must be clean and dry. Replace armature if needed, use VT No. 32-0225.
3. Field coils must also be dry with insulation intact. When replacing coils, use VT no. 32-7599.
4. Make sure battery is fully charged with all cells operating.
5. Mount Volt Tech regulator (preferably in the air stream) and be sure it is properly grounded to the frame as shown in the wiring diagram.

Wiring instructions:

1. Connect orange wire to "A" (armature) post on generator.
2. Connect green wire to "F" (field) post on generator.
3. Connect red wire to positive (+) battery terminal or to the "bat" battery terminal of the ignition switch.

**Note:** Volt Tech recommends the installation of a 20 amp fuse in line on the wire between the switch and the battery.

4. The generator must be polarized after installing the new regulator. Use a short jumper lead and momentarily touch the positive battery terminal to the "A" post on the generator.

For motorcycles not equipped with a battery (magneto models) use a 12 volt battery grounding the negative Side of the battery to the frame and momentarily touching the positive side of the battery to the "A" post on the generator. The generator is now polarized. Remove battery.

