

Selling & Servicing Generators...

Is As Easy As 1, 2, 3

Selecting the generator

The GENERATOR TEST SET makes it easy to help customers select the right size generator for their needs.

1. Plug the GENERATOR TEST SET into the wall receptacle and a tool or appliance into the test set.
2. Multiply the ammeter reading times the voltmeter reading, times either 1,2 or 3.

Multiply by:

- x (1) If Heating or Lighting Product - They draw a constant amount of current throughout their use.
- x (2) If Hand Tool - They normally draw about twice their free running current as they are used to their full capacity.
- x (3) If Electric Motor - They attach to a piece of stationary equipment and require up to three times their free running current as they come up to speed.

Generator Wattage Required = (Amps) x (Volts) x (1,2 or 3)

This gives a good estimate of the minimum generator size required.

Servicing the generator

Plug the GENERATOR TEST SET into the generator noting the frequency and voltmeter readings.

Apply a load to the generator equal to the capacity of the generator. (Watts) divided by (Volts) = Amps. A 5000 Watt generator should be capable of producing 5000 Watts/120 Volts = 41.7 Amps.

With the full load applied, the frequency should remain about 60Hz and the voltage about 120 Volts.

If the frequency drops off it indicates that the engine is not able to produce its rated horsepower.

If the voltage drops off, but not the frequency, the generator itself is not functioning properly.

Through this simple test the capacity of the generator, and the operation of both the engine and generator, was verified.

Testing a generator's capacity without a load is like judging a car's performance by racing the engine.

The Generator Test Set is widely used by Generator Manufacturers, Service Centers, and Rental Equipment Dealers including:

- American Honda Motor Co.
- Coleman Powermate Inc.
- Generac
- Homelite, Division of Textron
- Kubota Tractor Company
- Onan Corporation
- Yamaha Motor Company