

# Introduction

## SERVICE MANUAL

This section contains troubleshooting and repair information for the ES series generator sets. The generator set is divided into three basic parts, the generator, the controls, and the engine. Use the engine information in the applicable engine manual for service.

The manual is divided into sections for the generator and AC controls, DC controls, governor adjustments, and wiring diagrams. While the typical wiring diagrams at the end of the manual are included to help personnel trace or isolate problems, Onan suggests service personnel use the wiring diagrams shipped with the units.

Repair information for printed circuit boards is not extensive because the solid state printed circuit boards lend themselves more to replacement than repair. Application of meters or high temperature soldering irons to printed circuit boards by other than qualified personnel can result in unnecessary and expensive damage. Onan does not recommend repair of the printed circuit boards, except at the factory and has initiated a return/exchange service obtainable through distributors whereby faulty printed circuit boards can be returned and exchanged for good units. For more information, contact your Onan distributor.

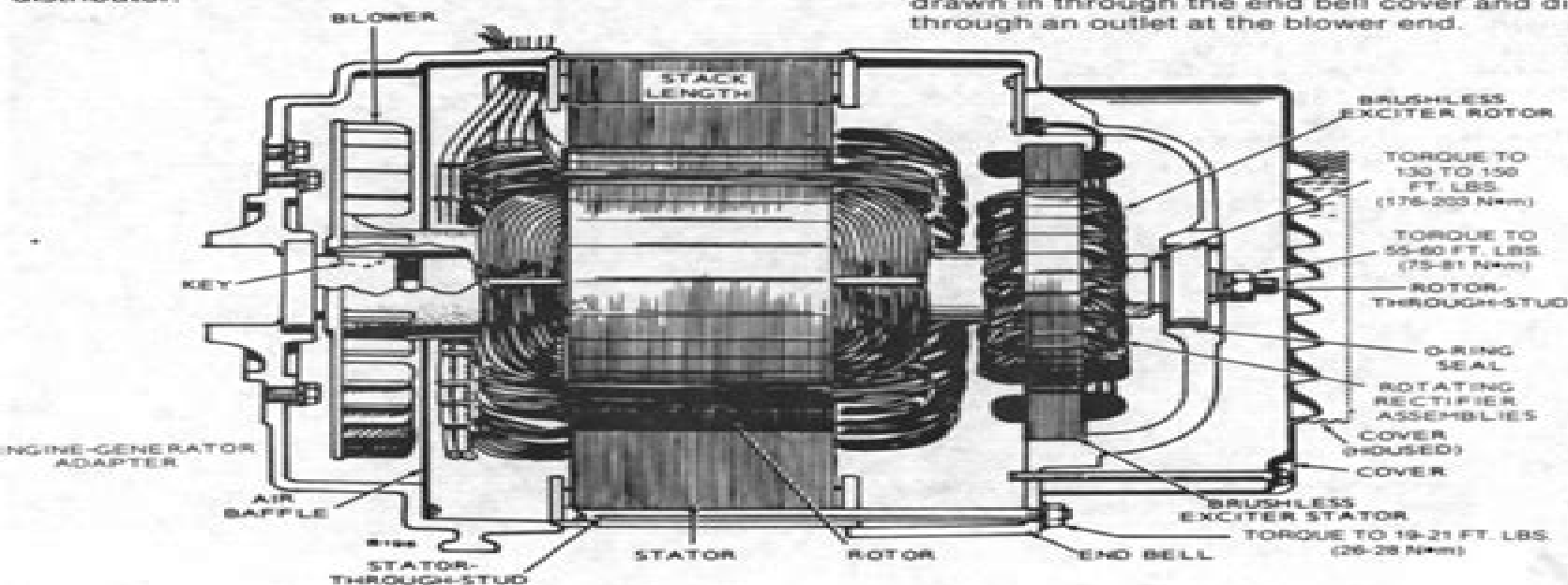


FIGURE 1. TYPICAL YD GENERATOR (SECTIONAL VIEW)

## TEST EQUIPMENT

Most of the test procedures in this manual can be performed with an AC-DC multimeter such as a Simpson Model 260 VOM. Some other instruments to have available are:

- Onan Multitester
- Wheatstone Bridge
- Kelvin Bridge
- Jumper Leads
- Onan Load Test Panel
- Variac
- AC Voltmeter
- DC Voltmeter
- Frequency Meter

See Tool Catalog 900-0019.

## GENERATOR DESCRIPTION

The YD generator (Figure 1) is a four-pole, revolving field, brushless exciter, reconnectable model of drip-proof construction. Design includes both single and three-phase, 60 hertz type generators. The generator rotor connects to the engine flywheel via a flex disc; therefore engine speed determines generator output and frequency.

A centrifugal blower, on the front end of the rotor shaft, circulates the generator cooling air which is drawn in through the end bell cover and discharged through an outlet at the blower end.

# Onan 20kw Es Generator And Controls Service Manual

**G Thomas**



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