

# PRODUCT INFORMATION

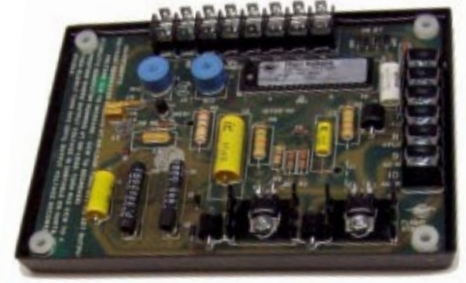
## *Replacement YD Regulator Control Boards*



**FS P/N 56-1540-00**  
Standard Applications

These replace  
**Onan® P/Ns:**

300-1006  
300-1404  
300-1405  
300-1540  
300-1654



**FS P/N 56-1540-ME**  
Marine/High Moisture Applications

### LIST OF FEATURES:

- Easily programmed for all voltages from 110/220 to 240/480.
- Regulated voltage adjustment range of 107 to 134 and regulation of + 1/2 volt at 120 volts.
- Fast response to sudden increase/decrease in load without undershoot/overshoot in regulated voltage.
- Unaffected by changes in load power factor.
- Wide damping adjustment range for fastest stable response without oscillation.
- Oversized field and flyback diodes (6 amp, 400 volt rating)
- Rugged barrier strips feature BOTH screw terminals or FASTON tabs.
- Standard version has conformal coating applied for moisture and vibration resistance. Potentiometers are sealed type.
- Marine version is encapsulated in a plastic tray filled with clear silicone compound, providing extra protection against salt corrosion, dirt and vibration as well as greatly improved heat transfer. Potentiometers are premium grade stainless steel, sealed type. Mounting holes are nylon reinforced.
- Two-Year Warranty. Both variants are fully rebuildable. (*See reverse for Warranty & other details*)

### ADJUSTMENT PROCEDURE:

#### **VOLTAGE CALIBRATION ADJUSTMENT (RH1 Potentiometer):**

1. Connect an accurate A-C voltmeter across the output of the generator.
2. If generator is equipped with a voltage adjustment potentiometer on the meter panel, set this potentiometer to the center position of the adjustment range.
3. Run the generator at a no load condition, and monitor the A-C voltmeter.
4. Adjust the voltage potentiometer (RH1) on the regulator control board for the proper voltage required on the A-C voltmeter. Note: Clockwise adjustment of RH1 increases generator output voltage. Counterclockwise adjustment of RH1 decreases generator output voltage.

#### **VOLTAGE STABILITY ADJUSTMENT (RH2 Potentiometer):**

1. Connect an accurate A-C voltmeter (Simpson 260 or equivalent recommended) across the output of the generator.
2. Run the generator at a no load condition, and monitor the A-C voltmeter.
3. Turn the stability potentiometer (RH2) on the regulator control board counter-clockwise until the A-C voltmeter becomes unstable or varies above and below the desired output voltage.
4. Slowly turn the stability potentiometer (RH2) on the regulator control board clockwise until the A-C voltmeter indication becomes stable or there is no voltmeter variation. This potentiometer setting will result in stable voltage operation under all maximum voltage regulator response time conditions.



**FLIGHT SYSTEMS**

505 Fishing Creek Road • Lewisberry, PA 17339

[www.flightsystems.com](http://www.flightsystems.com)

#### ***Technical Support:***

**717-932-9900 (7:30-4 ET, M-F)**

**Fax: 717-932-9925**

**E-Mail: [GCtechnical@flightsystems.com](mailto:GCtechnical@flightsystems.com)**

# WARRANTY POLICY

## Replacement Onan® Controls Manufactured by FLIGHT SYSTEMS

*Note: Always Refer to the Specific Generator Set Manual when Troubleshooting Problems.*

This Flight Systems manufactured replacement generator control is warranted to be free from defects in materials and workmanship for a period of two years from the date it was sold. *(This date appears on unit label)*

Flight Systems' Limited Warranty covers the repair or replacement of defective product within the warranty period. It does not cover the cost of installation, or removal costs incurred, or possible damage to other equipment (including the generator or parts thereof) as a result of this product.

Flight Systems (or its authorized agent) shall reserve the right to determine the cause of malfunction. *In the case if we determine that it was due to abuse, misuse, improper installation, acts of nature, failure to perform recommended gen set maintenance procedure or problems elsewhere in the gen set, the warranty claim shall be disallowed and established repair rates shall apply. Ship defective units directly to:*

**Flight Systems, 505 Fishing Creek Road, Lewisberry, PA 17339 - Attention: Warranty Repair**

*Please prepay all freight charges and note the nature of the failure, if known.*

## REBUILDING SERVICE

If this product suffers a failure when out of warranty, it can be rebuilt. As with all Generator Controls Rebuilt by Flight Systems, a One-Year Warranty will be issued. Please contact us for current rebuild pricing. *Ship units to:*

**Flight Systems, 505 Fishing Creek Road, Lewisberry, PA 17339 - Attention Repair Dept.**

*Please prepay all freight charges and note the nature of the failure, if known.*

## TECHNICAL SUPPORT

*Technical support is available by phone, fax or e-mail for all Flight Systems products.*

**Phone: 717-932-9900 (7:30am - 4:00pm ET, M-F)**

**Fax: 717-932-9925 E-Mail: GCtechnical@flightsystems.com**

## OTHER PRODUCTS & SERVICES

*We offer improved replacements for the following Onan® Controls*

*Controls Rebuilding Service*

OEM Part #	Description
ONAN® 300-C859	GEN SET CONTROL
ONAN® 300-0679, 0680	ENGINE CONT. MNTR.
ONAN® 300-0681, 0682	ENGINE CONT. MNTR.
ONAN® 300-B1073, B944	RV GEN SET CONTROL
ONAN® 300-1006, 1404, 1540	YD REGULATOR
ONAN® 300-2604	ENGINE MONITOR (12V)
ONAN® 300-3056, 3763, 3764	RV GEN SET CONTROL
ONAN® 305-0826, 0809-01, 0851	RV VOLTAGE REGULATOR
ONAN® 332-1268	VR21 REGULATOR
ONAN® 332-1956	VR21 REGULATOR

Flight Systems rebuilds over 200 different Onan®, Kohler®, Generac®, Basler®, ASCO® and other Generator & ATS Controls. Rebuilt-Exchange Service is available on all Part Numbers we have cores for. Please call or see our website for a complete list.

**Order Desk: 800-403-3728**

**(8-5:30 ET, M-F)**

**www.flightsystems.com**

*Other Generator Controls, Test and Monitoring Equipment:*

See our website or call about our Model 540 Standby Controller, Model 325 Generator Exercise Monitor, Model 360 "G-Man" RV Gen Set Service Tool or our line of Diesel Controls, featuring the famous Engine Saver®.