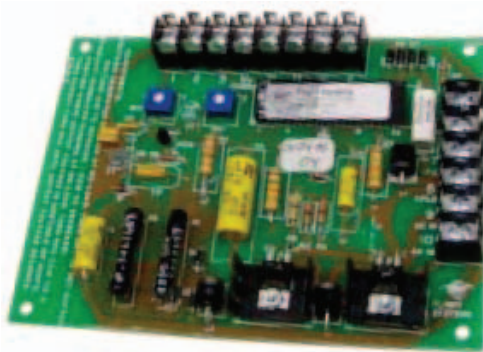


PRODUCT INFORMATION

Replacement YD Regulator Control Board

FS P/N 56-I540-00



Replaces Onan® P/Ns:

300-1006

300-1404

300-1405

300-1540

300-1654

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 $\pm 1/2$ 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.
- Heavy conformal coating applied for moisture and vibration resistance. Potentiometers are sealed type.
- Two-Year Warranty. 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

207 Hempt Rd • Mechanicsburg PA 17050

www.flightsystems.com

Technical Support:

717-590-7330 (8-4:30 ET, M-F)

Fax: 717-590-7327

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 (such as storms), 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, 207 Hempt Rd. Mechanicsburg, PA 17050 - Attention: Warranty Repair

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

Return Policy: Unwanted items may only be returned within 30 days of original purchase date. Refund/credit issued shall be less a 25% per item restocking/re-test fee as long as unit is in new, undamaged condition. *Shipping charges are not refundable.*

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, 207 Hempt Rd. Mechanicsburg, PA 17050 - Attn. 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 the internet for all Flight Systems products.

Phone: 717-590-7330 (8:00am - 4:30pm ET, M-F)

Fax: 717-590-7327 Web: http://www.flightsystems.com/tech_sppt.htm

We offer improved replacements for the following Onan® Controls

<u>OEM Part #</u>	<u>Description</u>
ONAN® 300-C859	GEN SET CONTROL
ONAN® 300-0679, 0680	ENGINE CONT. MNTR.
ONAN® 300-0681, 0682	ENGINE CONT. MNTR.
ONAN® 300-0921/922, 300-1188	TIME DELAY MODULE
ONAN® 300-B1073, B944	RV GEN SET CONTROL
ONAN® 300-1006, 1404, 1540	YD REGULATOR
ONAN® 300-2604, 2605	ENGINE MONITOR (12 - 24V)
ONAN® 300-2784, 2943	RV GEN SET CONTROL
ONAN® 300-2880	VOLTAGE REGULATOR
ONAN® 300-3056, 3687	RV GEN SET CONTROL
ONAN® 300-3763, 3764	RV GEN SET CONTROL
ONAN® 300-4296, 4297	ENGINE MONITOR (12 - 24V)
ONAN® 300-4320, 4923	RV GEN SET CONTROL
ONAN® 300-4901, 4902	RV GEN SET CONTROL
ONAN® 305-0782, 0809-01, 0851	VOLTAGE REGULATOR
305-0826, 305-0897, 305-0911	(RV & Mobile Commercial)
ONAN® 332-1268, 332-1956, 2045	VR21 REGULATOR

Controls Rebuilding Service

Flight Systems rebuilds over 200 different Onan®, Kohler®, Generac®, Basler®, ASCO®, Kato®, GE-Zenith® and other Generator & ATS Controls. Rebuilt-Exchange Service is often available.

We also rebuild Cruisair®, Kwickee® and other Marine & RV controls. Please call or see our website for a complete list.

**Order Desk: 800-403-3728
(8-5:00 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, "G-Man" & "Point-Man" RV Gen Set Service Tools or our line of replacements for Basler, Newage, Marathon & other regulators.