

PRODUCT INFORMATION

Replacement for Onan® P/N 300-C859 RV-Marine Gen Set Controller (FS P/N 56-C859-00)



LIST OF FEATURES:

- Avoid costly relay conversion with this replacement board.
- Mounting footprint and terminals identical to original board. No modification required to install.
- Heavy conformal coating applied for moisture and vibration resistance. (*Corrosion was a major problem with the original board*).
- Upgraded components used throughout the board.
- Rugged barrier strips and heavy duty rocker switches used.
- Our design offers improved heat dissipation.
- Two-Year Warranty. Board is fully rebuildable. (*See reverse for Warranty & other details*)

TROUBLESHOOTING PROCEDURE:

(Use to determine if Control Board Needs Replaced)

SYMPTOM: Engine does not crank.

1. Check battery & battery cables.
2. Check P.C. board adaptor (If equipped).
3. Check In-Line 9 AMP Fuse (If equipped).
4. Check start solenoid.
5. Check A1 Switch.
6. If above checks are OK, replace Control Board.

SYMPTOM: Engine cranks but does not start.

1. Check A1 Switch.
2. Check fuel solenoid.
3. Check fuel shut-off solenoid (If equipped).
4. Check intake manifold vacuum switch (If equipped).
5. Check oil level & low oil pressure switch.
6. Check high water temp. switch (If equipped).
7. Check high engine temp. switch.
8. Check ignition system.
9. If above checks are OK, replace Control Board.

SYMPTOM: Battery loses water.

1. Check battery voltage after generator has run for 30 min.
If Voltage 15-16 volts or higher, replace Control Board.

SYMPTOM: Engine starts but stops when the start switch is released.

1. Check for generator D.C. output voltage on Pin 8 of Control Board when engine is cranked (If voltage is not present, check G1 R11)
2. Check for voltage on Pin 6 after engine starts and the start switch is released. (If voltage is not present, replace Control Board.)

SYMPTOM: Engine runs and then stops.

1. Check for a safety shutdown (Low oil, high water temp. or high engine temp.)
2. Check resistor G1 R11.
3. If above checks are OK, replace Control Board.

SYMPTOM: Low battery - No high charge rate.

1. Check for charging current at terminal 5 on Control Board. (Remove wire from terminal 5 and insert an Ammeter from wire to terminal 5. Reading should be 3 AMPS or higher.)
2. Check battery voltage (14 volts or higher).
3. Check charge resistor G1 R1.
4. If above checks are OK, replace Control Board.



FLIGHT SYSTEMS

505 Fishing Creek Road • Lewisberry, PA 17339

www.flightsystems.com

Technical Support:

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

Fax: 717-932-9925

E-Mail: 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® 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®.