



# RV GENERATOR HANDBOOK



**FREEDOM  
TO GO  
ANYWHERE**

**ONAN GENERATORS GIVE YOU  
THE POWER YOU NEED TO GO  
WHEREVER, WHENEVER.**







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For more RV product info,  
scan to visit the Cummins'  
literature app

## Cummins Onan RV Generator Handbook

Performance you rely on™

# INTRODUCTION

**Thank you for your interest in Cummins RV generators.**

We strive to provide the quiet, reliable auxiliary power you need to make your life on the road all it can be. Cummins generators are engineered for years of trouble-free service, and our nationwide service network is the largest in the industry.

Cummins generators come in a wide variety of sizes and fuel types. From smaller gasoline and propane models to larger diesel-powered models for bus-type Class A RVs, there's a model for whatever type of RVing you're interested in.

This RV Generator Handbook contains basic information that will allow you to use and maintain your new generator. Included here are helpful tips for operation along with maintenance, parts and service information. This handbook is a general supplement to the more specific information contained in the operator manual that comes with every new Cummins generator.

Our promise to you is to continue to provide the best-performing RV generators and the largest, best-trained service organization in the business. By following the tips contained here and having your Cummins authorized parts and service distributor or dealer provide service at recommended intervals, your generator will provide reliable, easy-to-own performance for years to come.



# ROCK YOUR BOONDOCK

Make dry camping more exciting with an Onan QG 4000i generator. This mounted RV generator lets you bring your own power to even the most remote locations. It runs whisper quiet, allowing you to enjoy the tranquility of where you are unless you're cranking up the tunes.



Scan the code to see how the QG 4000i can power your adventures.





# 1 | IMPORTANT SAFETY PRECAUTIONS

Please read your generator operator's manual carefully so you understand all the precautions for safe, efficient operation. Most accidents occur from failing to follow fundamental safety rules. In general:

- Never operate or occupy your RV unless equipped with a properly functioning carbon monoxide detector. Be sure to check the expiration date on your detector.
- Exhaust gas is deadly. Check all exhaust system connections regularly for leaks and tighten them as necessary. **DO NOT** operate the generator with a faulty exhaust system.
- If your RV bottoms out on a driveway or road object, inspect the generator exhaust system for damage. The tail pipe must extend past the edge of the vehicle.
- Always operate the generator in an area where the wind will carry away the exhaust fumes.
- Don't store anything, especially gas, oil, rags or other flammable materials, in the generator compartment.
- Keep the exhaust and air intake free from obstructions such as clothing, furniture or other material, like road debris.
- Perform all service and maintenance work with the generator engine off and the negative battery cable disconnected. Moving parts can cause severe personal injury or death, and live wires could cause fatal electrocution.
- Backfeed to utility systems can create serious risks to life or property. Do not connect the generator to a building electrical



system except through an approved transfer device and after the building's main breaker is opened.

- **Autostart caution:** Be sure to deactivate your autostart system before storing your RV, conducting electrical

maintenance or handing over your RV to a service center. To be sure your generator won't start while conducting maintenance, follow the operator's manual and disconnect the remote electrical harness prior to any service.

## EXHAUST EXTENSIONS

While we understand that some organizations require the use of exhaust extensions, Cummins does not endorse the use of RV generator exhaust pipe extensions. Like all fuel-burning devices, engine-driven generators emit carbon monoxide (CO), which, if not safely handled, can produce serious injury or death. Cummins generators, in conjunction with RV OEM-installed tail pipes, are designed to meet RVIA standards for safely handling exhaust gases while minimizing noise and maximizing generator performance. Improper modifications to the exhaust components can result in unexpected hazards to the vehicle occupants.

Cummins concerns revolve around six areas:

1. **Weight:** Unless entirely self-supporting, extensions add weight to the end of the generator tail pipe, which can stress, crack or break the exhaust system parts that are not designed to carry the additional weight. This could result in exhaust gases escaping directly under the coach and therefore could be extremely dangerous to vehicle occupants.
2. **Fit:** To be effective conveyors of exhaust, connections and joints must be gastight. Such connections are not guaranteed unless the exhaust extension kit is properly assembled each time it is used.
3. **Exhaust direction:** Because exhaust extensions vent at the roof line, there is a major concern that exhaust will be sucked in by rooftop air conditioners, vents and windows.
4. **Heat:** Many extension designs involve exposed metal that can be a burn hazard to anyone passing by who might contact the exposed extension pipe.
5. **Back pressure:** Adding an extension may increase back pressure on the engine and thereby reduce engine performance or cause the engine to fail to meet government-regulated exhaust standards.
6. **Warranty:** The use of an exhaust extension kit may void the Cummins warranty.



## 2 | QUICKSTART GUIDE FOR RV GENERATOR OWNERS

There are some basic things that an owner needs to know about his or her Cummins RV generator. First of all, become familiar with the basic safety rules covered on the previous pages. Next, an understanding of the following key topics will help you get the most trouble-free, cost-effective auxiliary power while you're experiencing all that the RV lifestyle has to offer.

- **Starting and stopping procedures** — It's very important to understand the correct way to turn your generator on and off. See pages 10 and 11 for an in-depth explanation of this basic generator function.
- **Breaking in your new generator** — Following the recommended procedure for the initial running period can be beneficial for added service life. See page 11 to learn more about how to manage this important aspect of your generator.
- **Exercising your generator** — It's also very important to exercise your generator regularly, to keep everything in good working order and (in the case of gasoline sets) to avoid fuel varnishing, which can affect performance if the generator is stored for an extended time. See page 11 for more information about this important topic.
- **Managing loads and understanding battery charging** — See pages 17 and 18 for an explanation of why these are important as well.

# CUMMINS WEBSITES

[rv.cummins.com](http://rv.cummins.com) is the official online home for all Cummins products. Visit our site to learn more about our full line of RV generators for motorhomes and trailers.

You can find the dealer or distributor nearest you with our sales and service locator. Check it out today at [cummins.com/sales-and-service](http://cummins.com/sales-and-service).

Green Label Parts™ are available at most Cummins dealer or regional service locations. If parts are not available locally or if it is more convenient, you can shop online at the factory store: [shop.cummins.com](http://shop.cummins.com) and [shop.cummins.ca](http://shop.cummins.ca).

Maintenance parts and manuals are available for most RV generator models and include the following:

- Oil filters
- Oil filter wrench
- Air filters
- Fuel filters
- Spark plugs
- Plug wires
- Glow plugs
- Maintenance kits
- Line voltage monitor
- Manuals — Operator, Parts, Installation and Service

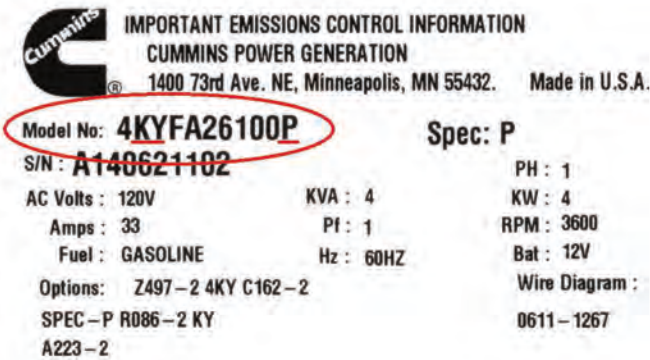


To experience our world-class service and support, visit [care.cummins.com](http://care.cummins.com), and to locate a dealer, visit: [cummins.com/engines/motorhome-and-rv/find-motorhome-and-rv-service-location](http://cummins.com/engines/motorhome-and-rv/find-motorhome-and-rv-service-location).



# NAMEPLATE/DESCRIPTION

Each Cummins generator has a model/spec number description, which is shown on the serial number tag attached to the generator. Here is a representation of the tag on an Onan RV QG 4000.



Note the highlighted letter code, in this case P, which denotes the specification type of the particular generator, which can then be referred to as spec P. This information is helpful in determining which parts to use if service is needed at some point in the future. Note your new Cummins model identifier and spec code in the boxes below. Then if you need to obtain service parts in the future, you'll have an easily accessible record to speed up the process.

## MODEL/SERIAL NUMBER RECORD

When contacting a Cummins authorized RV service and parts dealer for service, maintenance or parts questions, always refer to the complete model, spec and serial number of your Cummins RV generator. These numbers are printed on your Cummins generator unit nameplate.

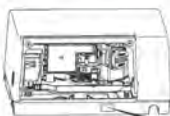
**Write them below for easy reference.**

Model No:

Serial No:

## PHOTOGRAPH YOUR NAMEPLATE

Anytime you contact Cummins or your dealer for service, parts or questions about your generator, it is important to have your nameplate information handy. One way to do this is to take a photograph of your generator's nameplate and store it on your phone. The next page shows you where to find the nameplate on your generator.



QG - 5500 - 7000

**IMPORTANT ENGINE INFORMATION**  
**CUMMINS POWER GENERATION**  
 1400 73rd Ave. NE  
 Minneapolis, MN 55432  
 Made in U.S.A.

Model No.

Size

AC Voltage  VAC  Hz

Amperes  A  RPM

Fuel

Options

Insulation - NEMA Class  Ambient  °C

[The engine family designation, engine displacement, statement of compliance with the applicable EPA and / or California emission regulations, including the compliance level, if category, appear in this block on the actual nameplate on this panel.]



**IMPORTANT ENGINE INFORMATION**  
**CUMMINS POWER GENERATION**  
 1400 73rd Ave. NE  
 Minneapolis, MN 55432  
 Made in U.S.A.

Model No.

Size

AC Voltage  VAC  Hz

Amperes  A  RPM

Fuel

Options

Insulation - NEMA Class  Ambient  °C

QG - 3600 - 4000

**Cummins Onan**

1400 73rd Ave. NE  
 Minneapolis, MN 55432  
 Made in U.S.A.

Model No.

Size

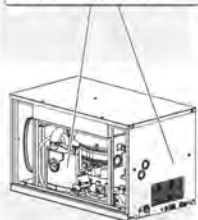
AC Voltage  VAC  Hz

Amperes  A  RPM

Fuel

Options

Insulation - NEMA Class  Ambient  °C



QD - 3200

**IMPORTANT ENGINE INFORMATION**  
**CUMMINS POWER GENERATION**  
 1400 73rd Ave. NE  
 Minneapolis, MN 55432  
 Made in U.S.A.

Model No.

Size

AC Voltage  VAC  Hz

Amperes  A  RPM

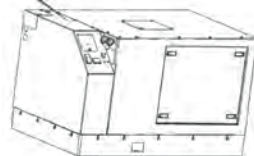
Fuel

Options

Insulation - NEMA Class  Ambient  °C

THIS ENGINE MEETS 1995-1999 CALIFORNIA EMISSION REGULATIONS FOR LARGE ENGINES  
 SKB716UD2HA 710 cc

REFER TO OPERATOR'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS. 30-2400 LRC



QG 6000 - 8000

**IMPORTANT ENGINE INFORMATION**  
**CUMMINS POWER GENERATION**  
 1400 73rd Ave. NE  
 Minneapolis, MN 55432  
 Made in U.S.A.

Model No.

Size

AC Voltage  VAC  Hz

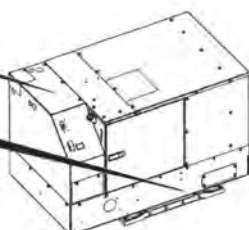
Amperes  A  RPM

Fuel

Options

Insulation - NEMA Class  Ambient  °C

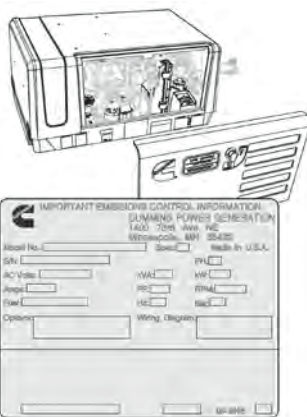
[The engine family designation, engine displacement, statement of compliance with applicable EPA and / or California emission regulations appear in this block on the actual nameplate on this panel.]



QD - 10000 - 12500



QG - 2500i - 2800i



QG 4000i



## 3 | RV GENERATOR OPERATION

### STARTING AND STOPPING PROCEDURES

Your Cummins generator can be started (except RV QD 3200) and stopped from the integral control panel on the generator or from the optional remote control panel inside the vehicle if your RV is so equipped.

It is a good practice, before starting the generator, to turn off air conditioners and large electrical loads. If the unit has not been started in the last several hours, prime by holding the stop button on the remote start panel or the control on the generator itself.

*NOTE: Prime is available for all current production models, excluding legacy products. If you have an automatic generator start system, the delay is built into the automatic transfer switch.*

#### **To start:**

- Press and hold START at the interior control panel or outside at the set until the unit starts and the run indicator light comes on.
- Quiet Diesel: When you press START, the control verifies several parameters, including temperature. Glow plug burn and fuel pump prime happen prior to the starter engaging. On a cold morning, this “prime” could take up to 30 seconds before you hear the starter engage. (This is normal.)
- Don’t over-crank with no start-crank no longer than 20 seconds; allow the starter to cool for at least two minutes between attempts.
- Allow generator to run for 30 seconds prior to applying large loads. In many cases, the RV’s automatic transfer switch has this delay built in.

**To stop:** Press the STOP button at the control panel or at the set.

It is a good practice to turn off air conditioners and large electrical loads and allow the generator to run for three to five minutes prior to stopping. This allows the generator to cool down.

## **AUTOMATIC GENERATOR STARTING DEVICES**

Many modern RVs are equipped with a panel or device that automatically starts the generator based on low battery voltage, interior RV temperature or loss of shore power. These devices' operations vary depending on the manufacturer. In some cases, the autostart gen device may trigger a start or stop command without removing load. For these cases, this operation is normal and will not harm your generator. Auto gen/start panels are discussed later in this manual. Several manufacturers besides Cummins offer auto gen start systems. Please check with your manufacturer (or OEM) for their exact operating terms.

## **BREAKING IN YOUR NEW GENERATOR**

Your generator will perform better if you follow the break-in procedure recommended in the operator's manual. The break-in process typically involves running the generator at about 50 percent load for two hours, then at about 75 percent load for two hours, then letting it cool down. Refer to the maintenance chart on page 29 for maintenance intervals. A break-in procedure will decrease oil consumption and improve power characteristics.

## **EXERCISING YOUR GENERATOR**

It may seem surprising that *not* using your generator could cause performance problems, but with RV generators that's exactly the case. Regular "exercise" is a very important part of keeping your generator healthy. Lack of exercise can cause moisture buildup and fuel system degradation that will make it run poorly. In fact, in as little as 30 days, the fuel in gasoline-powered generators can begin to gum and varnish the fuel system. Fuel varnishing results in hard starting and surging. (A surging generator never settles at a stable operating speed.)

To prevent such problems, it is recommended to run gasoline generators at a minimum of 50 percent capacity (2,000 watts, or one air conditioner for a 4,000-watt set) for two hours once every month. This is necessary to help keep moving parts lubricated, expel moisture and control fuel varnishing in the carburetor. A continuous two-hour exercise period is preferable to several short periods. While traveling, this can be accomplished by running the air conditioning. If you own an LP or diesel generator, regular exercising can help reduce internal condensation and helps keep seals lubricated. Remember to exercise, not just start and run your generator.



# UNDERSTANDING POWER: AMPS, VOLTS AND WATTS

Electrical power is represented by volts, amps and watts. Understanding how much power you need or have available to use in your RV is important; what follows is how these terms interact with each other.

- **Amps** — Is a representation of the amount of current flowing in a wire or conductor. While the shore power receptacle and breaker, along with the generator, determine the maximum power potential, the size of the wires and internal breakers really determines the RV's "amp" capacity for any individual circuit and as a whole.
- **Volts** — Is a representation of the amount of electrical potential present. Typically for an RV, this is 120 VAC or 120/240 VAC when running from shore power, generator or onboard inverter. When operating from batteries, the voltage is 12 VDC. The propulsion engine alternator produces 12 VDC to charge the batteries. Likewise, battery chargers charge/maintain the batteries while plugged into shore power or a generator. Many interior lights, absorption refrigerators, LP furnaces, etc., operate on 12 VDC. Modern inverters take 12 VDC and convert it to 120 or 240 AC to operate appliances when shore power or a generator is not present.
- **Watts** — Is the true, "apples to apples" representation of power. It is simply calculated by **multiplying voltage x amps = watts**.

## *FOR EXAMPLE:*

A hair dryer plugged into a 120 V outlet that uses 10 amps of power would require  $10 \text{ amps} \times 120 \text{ volts} = 1,200 \text{ watts}$ , or 1.2 kilowatts (kW) of power.

# 30-AMP VS. 50-AMP SHORE POWER

Most modern RVs are wired for 30- or 50-amp shore power. An important distinction with these two options is rated voltage.

- A 30-amp shore cord is rated at 120 V. Therefore, the max total power available is 3,600 watts.
- A 50-amp shore cord is rated at 240 V. The total max power available here is 12,000 watts.

This means that a typical 50-amp shore cord has close to three times greater the amount of potential power than a 30-amp shore cord. The actual power the RV will have available to use will depend on its individual breaker size, configuration and wire size designed by the manufacturer.

- An RV generator capable of matching the potential power of a 50-amp shore cord plugged into a 240 V receptacle would have to be rated at 12,000 watts, or 12 kW.
- An RV generator capable of matching the potential power of a 30-amp shore cord plugged into a 120 V receptacle would need to be rated for 3,600 watts, or 3.6 kW, at a minimum.



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**30-amp RV Receptacle (120 V) –  
3,600 Watts**

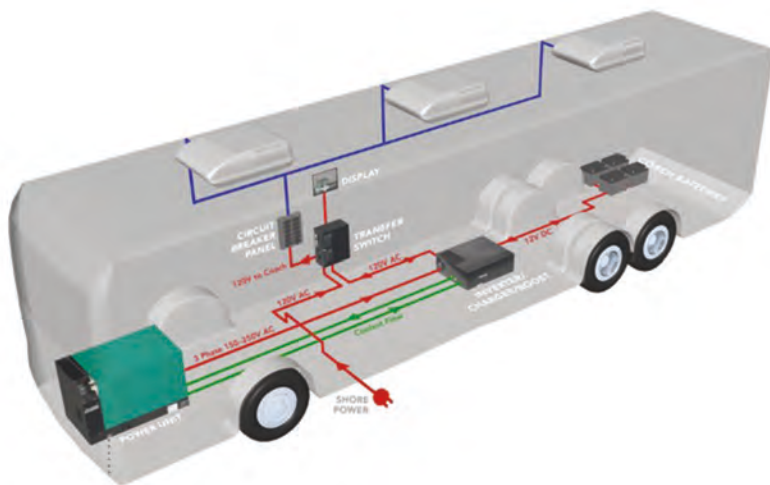


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**50-amp RV Receptacle (240 V) –  
12,000 Watts**

## LOAD MANAGEMENT BASICS

In order to get the most out of your Cummins generator, you need to understand how it interacts with the electric system of your RV. At a very high level, your generator is connected via the circuit breaker panel to a wide variety of loads. Two of the most important loads that will impact the performance of your generator are the air conditioner(s) and the converter or battery charger.



**To understand how battery chargers, automatic generator start systems and other baseloads affect your generator, you need to be aware of three things:**

- Your generator's power capability
- How to manage electrical loads
- Battery charging times

## DETERMINING YOUR GENERATOR'S POWER CAPABILITY

To determine what your generator can power, use the chart on the next page to estimate the total combined watts of all the appliances, lamps, battery chargers, air conditioners and other electrical products you typically use at the same time. (All electrical appliances and lights are labeled with their power requirements expressed in watts or amps.) You can use any number of appliances simultaneously, as long as their combined wattage doesn't exceed the electrical output of your Cummins generator or your RV's circuit breaker rating.

| COMMON POWER REQUIREMENTS |                          |                  |
|---------------------------|--------------------------|------------------|
| APPLIANCE                 | AVERAGE REQUIRED WATTAGE | AMPS (120 VOLTS) |
| AIR COMPRESSOR (1 HP)     | 900–1800                 | 7.5–15           |
| AIR CONDITIONER           | 1200–2400                | 10–20            |
| BATTERY CHARGER           | Up to 3000               | 6–28             |
| BLENDER                   | 450–700                  | 3.3–5.8          |
| BROILER                   | 1400–1700                | 11.6–14          |
| BROOM/VACUUM              | 1000–1440                | 8.3–12           |
| ENTERTAINMENT SYSTEM      | 85                       | 0.7              |
| COFFEE POT                | 900–1200                 | 7.5–10           |
| CONVERTER                 | 500–1000                 | 4–8              |
| CURLING IRON              | 20–50                    | 0.16–0.41        |
| DISHWASHER                | 1200–2400                | 10–20            |
| DRILL                     | 250–1000                 | 2–8              |
| ELECTRIC BLANKET          | 60–100                   | 0.5–0.8          |
| FAN                       | 10–175                   | 0.08–1.45        |
| FLAT IRON                 | 40–80                    | 0.3–0.6          |
| FRYING PAN/WOK            | 1000–1500                | 8–12.5           |
| GAME CONSOLE              | 19–200                   | 0.16–1.6         |
| HAIR DRYER                | 1200–1875                | 10–15.6          |
| IRON                      | 1000–1800                | 8–15             |
| LAPTOP                    | 20–50                    | 0.16–0.41        |
| LIGHT BULBS               | 13–100                   | 0.1–0.8          |
| MICROWAVE                 | 750–1500                 | 6.25–12.5        |
| RADIO                     | 50–200                   | 0.4–1.6          |
| REFRIGERATOR              | 400–1000                 | 3.3–8            |
| SHAVER                    | 15–20                    | 0.12–0.16        |
| SPACE HEATER              | 750–1500                 | 6.25–12.5        |
| STOVE                     | 900–2500                 | 7.5–20.8         |
| TELEVISION                | 43–600                   | 0.35–5           |
| TOASTER                   | 800–1400                 | 6.6–11.6         |
| WASHER                    | 500–1500                 | 3–4/15–42        |
| WATER HEATER              | 1000–1500                | 8–12.5           |



## **OPERATING MOTOR-DRIVEN APPLIANCES**

When using an appliance with a motor, turn it on and let it reach normal running speed before starting other appliances. Air conditioners, like all electric motors, can draw up to three times more power during the first few seconds of startup than during normal operation. While this is common for all electric motors, it is especially true for air conditioners if the compressor tries to start against built-up high pressure in its refrigeration system.

## **AIR CONDITIONER “SHORT-CYCLING”**

When an air conditioner runs, the compressor builds refrigerant pressure. When the compressor is then shut off, either manually or by satisfying thermostat demand, it must stay off for some period of time, usually 3–4 minutes, to allow pressure in the system to equalize before safely restarting. Trying to restart the air conditioner compressor before pressure equalizes is known as “short-cycling.”

A “short-cycled” air conditioner could 1) trip the air conditioner circuit breaker; 2) shut down the generator due to overload; or 3) trip the air conditioner due to thermal overload. The air conditioner thermal overload will reset itself after the compressor cools. Typically, you cannot manually reset.

Some, but not all, RV air conditioner thermostats have built-in time delays to prevent short-cycling. Short-cycling occurs in some RVs when the thermostat is mounted so that cold air blows directly on it. If this happens, the thermostat shuts the compressor off before the cabin has cooled but quickly warms back up and signals the compressor to restart before refrigerant pressure equalizes. In this case, direct the flow of air from the air conditioner away from the thermostat or relocate the thermostat. You can prevent air conditioner short-cycling by always ensuring the air conditioner rests for 3–4 minutes after the compressor shuts off before trying to restart it.

## **EFFECTS OF HIGH ALTITUDE AND EXTREME TEMPERATURES**

If you travel at high altitudes or in extreme temperatures, your generator can lose power. In such lower-density air conditions, you can't operate as many electrical devices as you could under normal operating conditions.

Power decreases 3.5% for each 1,000 feet above an altitude of 500 feet. For example, to operate at 4,500 feet (4,000 feet above rated generator altitude), multiply  $3.5\% \times 4$  (4,000 ft.) = 14% power loss. Then multiply  $0.14 \times$  your generator's power rating: 4,000 watts  $\times 0.14$  = a loss of 560 watts at that altitude.

Power decreases in extreme temperatures by 1% for each 10 °F (5.5 °C) above 77 °F (25 °C).

*NOTE: The carburetor on a non-EFI gasoline generator may require adjustment at high altitudes. (See your operator's manual or your Cummins authorized RV service and parts dealer.)*

## MANAGING ELECTRICAL LOADS

If you try to operate too many things at once, you'll "overload" the generator. Your lights will flicker or the circuit breakers on the generator or the main electrical panel will trip open, stopping the flow of power.

Battery chargers replenish power drained from starting the engine and generator or appliances operating on inverter power such as a microwave, refrigerator, mechanical slide out or pump.

Battery charging can aid in overloading your generator, and you may not realize this is happening because the charging starts automatically without any action by you whenever you start your generator.

Typical "invisible" charging loads:

- During startup, air conditioners need "reserve" power and can draw 3–4 times the typical 1,400–2,400 watts needed to run. Too much baseload can prevent air conditioners from starting.
- Battery chargers are activated automatically and can draw a large load (up to 3,000 watts). Manage your electrical loads by adjusting battery charge rates to best suit your needs. Consult your inverter/charger manual or manufacturer.

*NOTE: The generator will continue to run after a circuit breaker trips. Turn off all appliances before resetting the breaker. If the breaker trips again with all electrical loads off, you may have a short circuit in your wiring. Turn off the generator and contact a qualified electrician.*

EXAMPLE IN CHART BELOW:

The dashed box below shows that a 2,000-watt inverter running at 100 A battery charge capacity creates the same load as a 13,500 BTU air conditioner plus a microwave oven.

| BATTERY CHARGING LOADS                 |                                              |                                                    |       |                                         |
|----------------------------------------|----------------------------------------------|----------------------------------------------------|-------|-----------------------------------------|
| INVERTER/<br>CONVERTER<br>SIZE (WATTS) | BATTERY<br>CHARGER<br>MAX OUTPUT<br>(14 VDC) | AMPS REQUIRED<br>FROM<br>GENERATOR<br>(AT 120 VAC) | WATTS | EQUIVALENT<br>APPLIANCE LOAD<br>EXAMPLE |
| 1000                                   | 50 amps                                      | 12A                                                | 1440  | High-efficiency AC<br>or microwave      |
| 1500                                   | 75 amps                                      | 16A                                                | 1920  | High-efficiency AC<br>plus microwave    |
| 2000                                   | 100 amps                                     | 21A                                                | 2520  | 13500 AC plus<br>microwave              |
| 2500                                   | 120 amps                                     | 26A                                                | 3120  | 15000 AC plus<br>microwave              |
| 3000                                   | 140 amps                                     | 28A                                                | 3360  | 15000 AC plus<br>microwave              |

PREVENTING GENERATOR SURGING

The electrical supply (voltage and frequency) for any appliance must remain within very close limits for it to operate properly. Changes in the generator engine speed (called surging) can damage the appliances in your RV. Proper care of your generator will enable it to supply a stable power source and prevent surging.

RV generator engine speed is controlled with a governing system. Most generators have a mechanical governor, although the latest Cummins EFI and Quiet Diesel generators use an electronic governor. Without a governor, engine speed simply drops as appliances are turned on, until the generator finally stops running. With a governor, the carburetor throttle opens or the EFI system adjusts to compensate for the increased load and thus maintains a constant speed/frequency.

The governor works in careful balance with the generator engine, fuel system, regulator and generator. If the balance is upset, surging may result. A variety of things can cause surging, including an inadequate fuel supply, lack of exercise and poor maintenance. (See the Troubleshooting Guide on pages 36–37.)

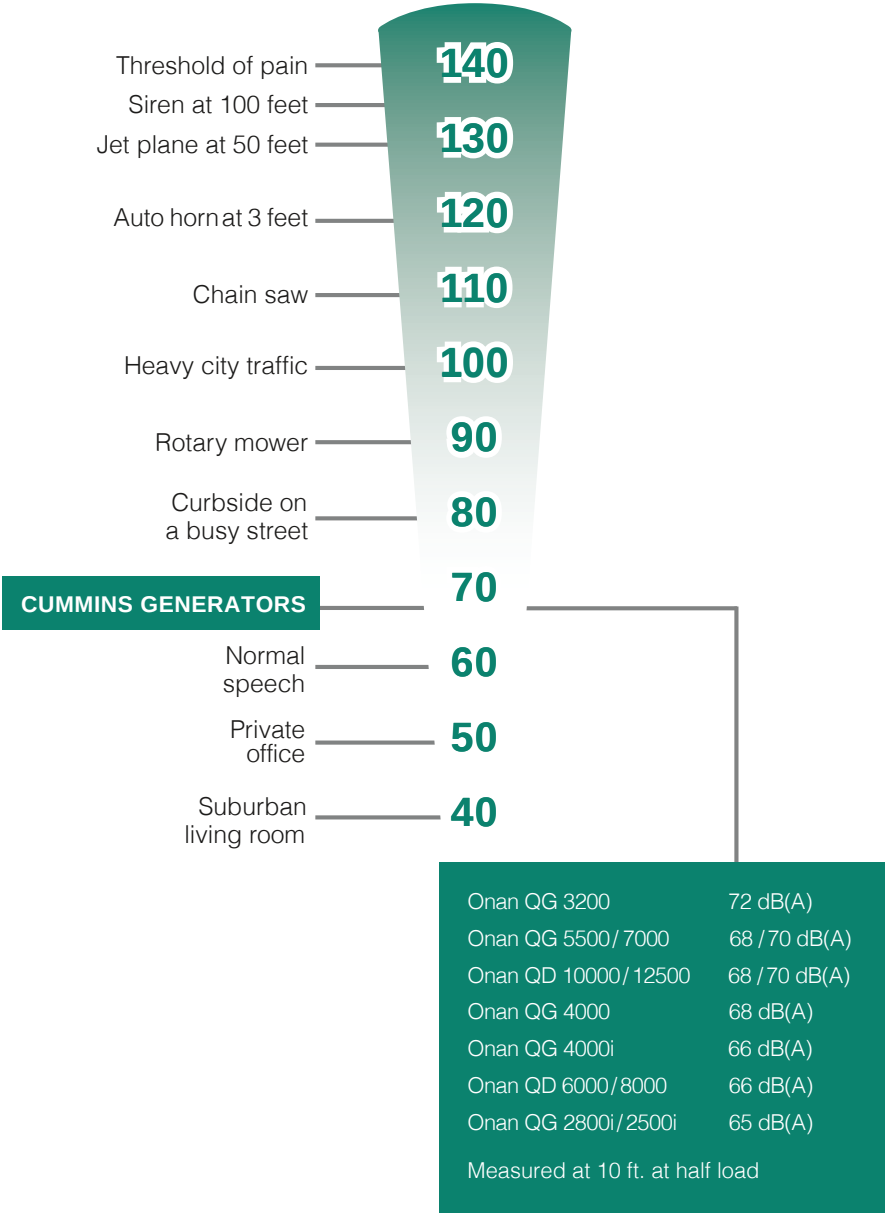
## TIPS TO HELP PREVENT SURGING

- Ensure adequate generator fuel supply. Fuel is drawn from a remote fuel tank, which in many cases is usually the vehicle's main fuel tank. Typically the generator's fuel pickup only extends  $\frac{3}{4}$  of the way to the bottom of the tank — to prevent you from completely draining the tank and finding yourself stranded at your campsite! In other words: fuel in the tank does not guarantee fuel to your generator, especially if you have two fuel tanks in your vehicle. A cracked, leaking fuel line or a defective fuel pump can also cause inadequate fuel supply to the generator. Contact your local Cummins authorized RV service and parts dealer to diagnose fuel supply problems.
- Follow the generator exercise recommendations or the out-of-service protection recommendations outlined in your operator's manual. Gum and varnish from stale fuel can plug small carburetor passages, causing a lean fuel mixture and surging. Treat the fuel system with a good quality fuel system cleaner in the clean-up mode ratios. Contact your local Cummins RV service and parts dealer to have the carburetor cleaned and adjusted or replaced if the problem persists.
- Adjustment should be done on gasoline or the LP model's carburetor, choke and governor by your local Cummins authorized RV service and parts dealer, who has specialized instruments made specifically for this job.
- If your generator continues to surge, take it in for service and do not operate. Damage could occur to your electrical devices in the RV and to the generator.

**! CAUTION: When operating electronic appliances (TVs, computers, etc.) in your RV, it is important to use surge protectors to prevent power surges from damaging your equipment. Cummins is not responsible for damage to sensitive electronic equipment.**

# INSTALLED CUMMINS GENERATORS ARE EXCEPTIONALLY QUIET

Noise comparison chart (in decibels\*)







## 4 | FREQUENTLY ASKED QUESTIONS (FAQS)

**Q: Is it practical to power the roof air conditioner with my generator while traveling on the road?**

**A: Yes, that is what a generator is for: portable electrical power. In fact, it can help lower fuel consumption because the generator uses less fuel than your vehicle engine.** Plus, it gives you an opportunity to exercise your generator. Any appliance that can be run in a stationary position can also be powered while driving.

**Q: Can a generator charge my RV house battery?**

**A: Not directly.** But a generator does provide power to operate your converter/charger, which charges batteries.

**Q: Why does a breaker trip and one air conditioner not work when I turn it on while the generator is running?**

**A: Some RVs with two air conditioners have a 20-amp circuit breaker for the rear air conditioner and a 30-amp breaker for all other loads (including the front air conditioner).** The RV may be wired with the two circuits reversed, causing the breaker to trip. The generator connections and wiring should be checked at an authorized service location.

**Q: Is generator power clean enough to run a laptop?**

**A: Yes, with Cummins generators, this is no problem.** The set should be turned on and warmed up before turning on the computer. The normal precautions for home use should be followed for RV use as well.

**Q: Can I operate an air conditioner and microwave at the same time?**

**A: Although this is possible in lower temperatures or altitudes or with high-efficiency ACs, Cummins 2,500- and 2,800-watt generators will probably be overloaded when the AC cycles off and on with the microwave running.** Load-shedding devices are available that automatically turn off the AC when the microwave starts and then restarts it when power is available again. All other Cummins generators can operate both of these appliances at the same time.

**Q: Will high-efficiency (power saver) air conditioners provide more reserve power?**

**A: Yes. High-efficiency ACs use 30% less power and are easier to start.** That means more power is available for use in the RV or for better fuel economy. High-efficiency ACs also have higher cooling output than comparable standard ACs.

**Q: What happens if I “short-cycle” my air conditioner?**

**A: Short-cycling refers to stopping and restarting the air conditioner compressor before the refrigerant pressure has enough time to equalize.** If this happens, one of several things can occur: a circuit breaker may trip, either on the generator or at the breaker panel; the generator engine may stall; or the AC compressor may trip its overload. AC compressors should remain off for at least three minutes before being restarted.

**Q: Can I run an RV generator in a national park?**

**A: Yes.** Cummins-installed generators are quieter than the national park sound level requirements (during allowable hours of use).

**Q: Why do I want to exercise my genset?**

**A: Regular exercising of the genset heats up the alternator windings and removes or expels excess moisture.** In sets equipped with brushes, exercising helps prevent corrosion buildup on slip rings. Running the genset also brings fresh fuel to the carburetor on gasoline and diesel gensets.

**Q: How often do I need to exercise my gasoline/diesel/LPG generator?**

**A: Ideally, Cummins generators should run two hours every month.** Once the genset is started, add as much load as possible (e.g., air conditioner, heat pump, hair dryers, other appliances). The objective is to place a 50 to 70 percent load on the genset.

**Q: I will not be using/exercising my generator every month. What do I need to do?**

**A: LPG — No special requirements.**

Gasoline — Depending upon your location in the country, gasoline can start to deteriorate in as little as 30 days. Treat the entire fuel tank with gasoline stabilizer. Run the genset for two hours at 50 to 70 percent load. This process will circulate the treated fuel through the entire fuel system.

Diesel — Diesel is a very stable fuel. If the recreational vehicle will be in storage for greater than six months, treat the entire fuel tank with a diesel stabilizer. Run the genset for two hours at 50 to 70 percent load. This process will circulate the treated fuel through the entire fuel system.

**Q: How are “will-fit” generator replacement parts different from Green Label Parts?**

**A: Cummins genuine Green Label Parts are tested and designed specifically for RV applications.** Will-fit parts and gaskets can be the correct shape, but because of inadequate design, the wrong material or poor quality, they could cause premature failure, leakage or performance problems. Use of some non-Cummins replacement engine parts may affect the unit’s emissions certification, and damage caused by use of oil and air filters other than Green Label Parts is not covered under your generator warranty.

**Q: How often should I perform maintenance on my generator? Will doing it myself affect my warranty?**

**A: The operator’s manual that accompanies each generator outlines the proper maintenance intervals and procedures for your generator.** Proper maintenance is required to ensure warranty coverage remains intact. Maintenance may be performed by any engine repair establishment or individual. It is advised to keep a log of maintenance performed on your generator.

**Q: What should be done to the generator oil before putting the generator in long-term storage?**

**A: Before putting the RV in long-term storage, change the oil of the generator to match the anticipated temperature conditions when it will be put back in service.**

**Q: Should I use straight 30-weight oil, or is the multi-viscosity oil I use in my vehicle okay?**

**A: Yes, it is OK to use multi-viscosity oil or 30 W for temperatures above 32 °F.** For more detailed instructions on what type of oil to use, consult the chart on page 33.

**Q: Will high-octane gasoline reduce the amount of fuel varnish?**

**A: No, because varnish is a form of fuel degradation that is not a function of octane level.** Rather, it is a function of fuel quality, age and additive treatment. High-octane fuel without stabilizer additive will oxidize or varnish at a faster rate than fuel treated with a fuel stabilizer.

**Q: When I'm checking my oil, does the dipstick need to be screwed in all the way?**

**A: In order to get the correct oil level reading, the dipstick must be screwed in completely on all models with a screw-type dipstick,** except for the Onan QG 2800/2500 model; it sits on top of the fill tube. Make sure the vehicle is level when checking oil level.

**Q: How do I keep mice/rodents out of my generator during storage?**

**A: Use rodent prevention techniques around the generator/compartment just as you would with any other area of your RV.**

**Q: Can I use my 4000-watt generator to run two air conditioners?**

**A: No.**

**Q: Will the starter motor continue to be engaged if the start button is held too long?**

**A: All Cummins generators are equipped with a start disconnect feature, which will not allow the starter to crank once the generator is producing electrical output.**

**Q: Why don't I have as much power as I think I should?**

**A: Your power might vary with conditions such as load and altitude.** Battery chargers run as "invisible" loads and can draw as much power as two air conditioners, depending on size. This can continue for several hours, depending on battery charger and battery bank size. (See the Battery Management section on page 17–18 for more information.)

**Q: Why does my generator surge at startup?**

**A: Depending on the ambient conditions, the generator may surge until it reaches a stable operating temperature.**

**Q: Can I use synthetic oil in my generator?**

**A: People use synthetic oils because the general opinion is that they can be left in the engine longer than regular oil.** However, if you decide to use synthetic oil in your generator, the maintenance time intervals given in the operator manuals must still be followed.

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## LP GENERATORS

**Q: Should I get an LP or a diesel generator for my diesel motorhome? What are the differences?**

**A: Each fuel option has its own advantages. LP generators generally have a lower initial cost than diesel units.** In addition, they're smaller and lighter weight, allowing for more flexibility in the floor plan of large RVs. LP generators also have less exhaust fume smell. Diesel generators have a much longer engine life. They consume less fuel, and diesel fuel usually costs less than LP, which brings additional savings. A diesel generator gives you a common fuel system and the convenience of operating your generator from the vehicle's main fuel supply. The generator best for you depends on how you use it and your own personal preferences.

**Q: How is LP fuel supplied to my generator?**

**A: LP fuel is stored in its own fuel tank in liquid form with some vapor at the top of the tank at relatively high pressure.** The pressure in the tank is determined by the ambient (outdoor) temperature. The higher the temperature, the higher the pressure. Ambient heat vaporizes fuel until the pressure won't allow any more liquid to vaporize. The tank pressure will be about 200 psi at 110 °F, 70 psi at 40 °F and 0 psi at -40 °F.

In order for the fuel to be burned at a controlled rate in the generator (or any other appliance), it must be converted to a vapor form and supplied at a controlled pressure.

LP fuel systems for Cummins generators use vapor withdrawal.

**Q: Can LP fuel plug up the regulator?**

**A: The most common contaminants found in LP fuel are the oils from the LP pumping facility.** Oil can accumulate in the regulator on Cummins generators. Oil in the regulator can cause hard starting and surging. Contact your Cummins dealer for service. Never attempt to clean or adjust an LP regulator.

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## ELECTRONIC FUEL INJECTION (EFI) GENERATORS

**Q: How reliable is the technology for electronic fuel injection? Will I have more problems?**

**A: No, you won't have more problems. Actually, you'll have less.**  
The EFI technology used in our Onan RV QG models is the same technology used in the automotive industry for more than 30 years.

**Q: Should I worry about gumming of the fuel system with my EFI generator?**

**A: No. Your EFI generator minimizes fuel system gumming.**  
This will minimize maintenance and service requirements and make storage of your RV much simpler.

**Q: Does a generator with EFI start better?**

**A: The Onan QG generator is much faster and more reliable in both hot and cold starting.** This will result in fewer start failures.

**Q: Do I have to adjust for altitude and temperature with EFI?**

**A: No, the Onan QG EFI generator has automatic altitude and temperature compensation.**





## 5 | GENERATOR CARE AND MAINTENANCE

A Cummins RV generator is an investment that can bring you many years of comfort and enjoyment. However, all generators require periodic maintenance for dependable, ongoing performance. Your operator's manual outlines the specific maintenance procedures and service intervals for your particular model. Take good care of your generator, and it will take good care of you.

RV maintenance is performed according to the number of miles you travel. Similarly, generator maintenance is based on hours of running time. If your generator does not come equipped with an hour meter, install one and place it in an easy-to-see location near the RV's electrical control panel so you can keep track of the hours your generator runs. The Cummins deluxe remote control panel includes an hour meter. The chart on page 29 shows the recommended maintenance intervals for Cummins generators. These are general guidelines only. Consult the operator's manual for procedures and maintenance intervals for a specific model. Replacement operator manuals can be found by creating a free account on [quickservice.cummins.com](https://quickservice.cummins.com).

- Maintenance charts are printed in all operator's manuals.
- Check your generator exhaust system each time you start the generator. Make sure it doesn't leak and that it extends beyond the vehicle's perimeter.

## RV GENERATOR MANUALS

|                                  | SERIES     | SPEC LETTER | OPERATORS | PARTS    | SERVICE     | INSTALLATION |
|----------------------------------|------------|-------------|-----------|----------|-------------|--------------|
| QD 3200                          | HDZAA      | A-E         | 983-0103  | 983-0203 | 983-0502    | 983-0602     |
| QD 5000                          | HDKBA      | A-D         | 981-0166  | 981-0271 | 981-0535    | 981-0633     |
| QD 6000                          | HDKAH      | A-K         | A046L053  | 981-0200 | 981-0522    | A046L051     |
|                                  | HDKAH      | L-R         | A046L053  | A029S789 | 981-0522    | A046L051     |
| QD 7500                          | HDKAJ      | A-K         | A046L053  | 981-0200 | 981-0522    | A046L051     |
| QD 8000                          | HDKAK      | A-K         | A046L053  | 981-0200 | 981-0522    | A046L051     |
|                                  | HDKAK      | L-R         | A046L053  | A029S789 | 981-0522    | A046L051     |
| QD 10000                         | HDCAA      | A-B         | 981-0152  | 981-0259 | 981-0526    | 981-0615     |
|                                  | HDCAA      | C-D         | 981-0170  | 981-0259 | 981-0526    | 981-0637     |
|                                  | HDKCA      | A-E         | 981-0173  | 981-0277 | 981-0540    | 981-0640     |
|                                  | HDKCA      | F-H         | A043D713  | A043T420 | A043M526    | A043D717     |
| QD 12500                         | HDCAB      | A-B         | 981-0152  | 981-0259 | 981-0526    | 981-0615     |
|                                  | HDCAB      | C-D         | 981-0170  | 981-0259 | 981-0526    | 981-0637     |
|                                  | HDKCB      | A-E         | 981-0173  | 981-0277 | 981-0540    | 981-0640     |
|                                  | HDKCB      | F-H         | A043D713  | A043T420 | A043M526    | A043D717     |
| HQD 810                          | HQDSA-810  | A-C         | 0981-0178 | 981-0286 | 981-0545    | 981-0645     |
| HQD 1218                         | HQDSB-1218 | A-B         | 981-0179  | 981-0283 | 981-0546    | 981-0646     |
| QG 2500 LP<br>/2500 LP           | KV         | A-B         | 981-0129  | 981-0238 | 981-0506    | 981-0626     |
| LP/2800/2800i<br>/2800 LP        | KV         | C-D         | 981-0136  | 981-0238 | 981-0518    | 981-0604     |
|                                  | KV         | E-M         | 981-0153  | 981-0238 | 981-0518    | 981-0604     |
|                                  | KVC        | F           | 981-0158  | 981-0238 | 981-0518    | 981-0620     |
|                                  | HGJBB      | A-B         | A031C171  | A035B506 | A031C173    | A031C172     |
| 2800i/2500i                      | HGLAA      | A           | A062Y985  | A062Y987 | Online only | A062Y964     |
| QG 2500<br>LP/RM/2800 RM         | KVD        | A-C         | 981-0164  | 981-0238 | 981-0518    | 981-0631     |
| QG 3600<br>LP/4000               | KY         | A           | 981-0132  | 981-0246 | 981-0503    | 981-0627     |
|                                  | KY         | B-C         | 981-0139  | 981-0246 | 981-0503    | 981-0607     |
|                                  | KY         | D-H         | 981-0154  | 981-0246 | 981-0530    | 981-0607     |
|                                  | KY         | J-N         | 981-0159  | 981-0246 | 981-0503    | 981-0621     |
|                                  | KY         | P-R         | A041D131  | 981-0246 | A041D133    | A041D129     |
|                                  | KYD        | A-C         | 981-0169  | 981-0246 | 981-0530    | 981-0636     |
| QG 4000i                         | HGLBA      | A           | AO75S330  | AO75S333 | Online only | AO75S331     |
| QG 5500<br>EFI/7000 EFI          | HGJAA      | A-E         | 983-0101  | 983-0201 | 983-0501    | 983-0600     |
|                                  | HGJAA      | J-K         | A035D009  | 983-0201 | A035D011    | A035D005     |
| QG                               | HGJAA      | A-E         | 983-0101  | 983-0201 | 983-0501    | 981-0600     |
| 5500/5500 EVAP<br>7000/7000 EVAP | HGJAB      | M           | A035D009  | 983-0201 | A035D011    | A035D005     |

## GENERAL GENERATOR MAINTENANCE INTERVALS

| MODEL                                                               | SERVICE INTERVALS – REPEAT EVERY |                  |                  |                  |                |
|---------------------------------------------------------------------|----------------------------------|------------------|------------------|------------------|----------------|
| Service item                                                        | Monthly                          | 50 hrs           | 150 hrs          | 450 hrs          | 500 hrs        |
| <b>QG (GASOLINE/LP)</b>                                             |                                  |                  |                  |                  |                |
| Clean and check battery and connections                             | X <sup>3</sup>                   |                  |                  |                  |                |
| Change oil/oil filter                                               |                                  |                  | X <sup>1-4</sup> |                  |                |
| Change air filter                                                   |                                  |                  | X <sup>2,5</sup> |                  |                |
| Replace spark plugs                                                 |                                  |                  |                  | X <sup>5</sup>   |                |
| Change fuel filter                                                  |                                  |                  |                  | X <sup>5</sup>   |                |
| Schedule Cummins service center tune-up*                            |                                  |                  |                  | X <sup>6</sup>   |                |
| <b>MODEL</b>                                                        |                                  |                  |                  |                  |                |
| <b>SERVICE INTERVALS – REPEAT EVERY</b>                             |                                  |                  |                  |                  |                |
| Service item                                                        | Monthly                          | 150 hrs          | 250 hrs          | 500 hrs          | 1000 hrs       |
| <b>QD (DIESEL)</b>                                                  |                                  |                  |                  |                  |                |
| Clean and check battery and connections                             | X <sup>3</sup>                   |                  |                  |                  |                |
| Change oil/oil filter<br>— QD 3200/10000/12500                      |                                  |                  | X <sup>1-4</sup> |                  |                |
| Change oil/oil filter<br>— QD 5000/6000/7500/8000<br>— HQD 810/1218 |                                  | X <sup>1-4</sup> |                  |                  |                |
| Change air filter                                                   |                                  |                  |                  | X <sup>2,5</sup> |                |
| Flush coolant system<br>— Quiet Diesel                              |                                  |                  |                  |                  | X <sup>8</sup> |
| Change fuel filter<br>— Quiet Diesel                                |                                  |                  |                  | X <sup>5</sup>   |                |

1. As a part of engine break-in, change the engine oil after the first 20–50 hours of operation or within the first year of ownership.
2. Perform more often when operating in dusty environments.
3. Perform more often when operating in hot weather.
4. Perform at least once a year.
5. Perform sooner if engine performance deteriorates.
6. Should be performed by a qualified mechanic (Cummins authorized RV service and parts dealer).
7. Perform at least once every five years.
8. Perform every 75 hours when using high-sulfur fuel (typically found only in the Middle East).

\*Not performing scheduled maintenance may void your warranty.

**NOTE:** Perform a general inspection and check oil daily per maintenance schedule in operator's manual.



**For more RV product info, scan to  
visit the Cummins' literature app**

# DO'S AND DON'TS FOR BETTER GENERATOR PERFORMANCE

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## THE DO'S

**DO** keep your generator clean by wiping it periodically with a clean cloth.

**DO** turn off all appliances before starting your generator for best long-term performance.

**DO** check operator's manual for periodic maintenance schedule.

**DO** check the exhaust system regularly for damage or leaks. Make sure the exhaust pipe extends out at least one inch beyond the vehicle's perimeter.

**DO** check the air filter periodically and clean it by tapping it on a flat surface. Never wash it in solvents or blow it out with an air hose.

**DO** install a running hour meter, if not already present, and ensure it's operating properly. This will help you know when scheduled maintenance service is due.

**DO** exercise your generator regularly.

**DO** make sure that clean fuel, the most important factor for proper generator performance, is used. Refer to the fuel recommendations covered on page 31.

**DO** make sure each operator is familiar with the important safety precautions listed on pages 4 and 5.

**DO** change your fuel filter. The fuel filter is an often forgotten part of any engine. Your generator has one too. It removes bits of debris from the fuel to prevent clogging the carburetor jets. Over time, the fuel filter collects enough material to become plugged, which restricts fuel flow and reduces the generator's power delivery. Be sure to change the fuel filter on a regular maintenance schedule.



## THE DON'TS

**DON'T** run the generator for long periods of time without using it to power appliances. It wastes fuel and may cause the engine to misfire.

**DON'T** attempt to adjust the carburetor, governor, choke, etc. yourself. See your Cummins authorized RV service and parts dealer for assistance.

**DON'T** run your generator set with the generator door panel removed.

**DON'T** run your generator on roads when there is heavy pooling of water.

**DON'T** pressure wash your unit.

# KEEP YOUR GENERATOR CLEAN AND INSPECT IT REGULARLY FOR DAMAGE

Your RV generator is a hardworking device that lives in an unfriendly environment, typically in the underside of your RV. Dust and debris are a part of its daily life. Dust can clog the intake system and reduce its engine's efficiency. Remember to replace air and oil filters regularly.

Over time, vibration from rough roads can loosen generator fasteners while debris thrown up from the road can occasionally damage fuel lines and exhaust systems. It makes good sense to regularly inspect all these items. Do not use a water hose or high-pressure car-wash-type sprayers on the generator. Light air pressure and a damp cloth are preferred.

## FUEL RECOMMENDATIONS

**Gasoline generators** — Treat the engine of your Cummins generator with a good grade of regular unleaded gasoline, and it'll purr in response. You can also use Gasohol (gasoline blended with alcohol) if it contains the correct additive mixture percentages:

- Ethanol blend — Not more than 10% ethanol
- Methanol blend — Not more than 5% methanol, and the fuel must also contain solvents and corrosion inhibitors

*NOTE: Fill up with fresh gas! A very common service issue is stale or contaminated fuel. Always use fresh gas! The gas should not be more than 30 days old. Fuel stabilizer extends the life of your fuel. Stale fuel clean-out is not covered under your warranty. Exercising your generator also helps keep the fuel fresh in the generator.*

**LP generator** — Use clean, HD-5 grade liquid propane in a mixture of at least 90% propane. Propane fuels other than HD-5 can contain more than 2.5% butane, which can result in poor fuel vaporization and poor engine starting in outside temperatures below 32 °F. Lower grades of propane have a lower knock resistance and can lead to potential engine damage.

**Diesel generators** — Use any of the following ASTM-certified fuels for your quiet diesel:

|              |                                          |
|--------------|------------------------------------------|
| ASTM-No. 2-D | (ambient temperature greater than 32 °F) |
|              | (No. 2 Diesel)                           |
| or ASTM-1-D  | (No. 1 Diesel)                           |
| No. 2-DLS    | (ambient temperature greater than 32 °F) |
| No. 1-D      | (ambient temperature less than 32 °F)    |
| No. 1-DLS    | (ambient temperature less than 32 °F)    |
| B5 Biodiesel | (ambient temperature greater than 50 °F) |

Ensure the fuel selected for use has a minimum Cetane number of 45. No. 2-D or No. 2-DLS diesel fuel gives the best economy and performance under most operating conditions. Use No. 1 diesel fuel when ambient temperatures are below 32 °F and during long periods of light engine load. Use low-sulfur or ultra low-sulfur content fuel having a cloud point of at least 10 °F below the lowest expected fuel temperature. Cloud point is the temperature at which wax crystals begin to form in diesel fuel.

**B20 biodiesel** — The use of B20 biodiesel requires the generator to have an additional fuel/water separator. Long-term storage of biodiesel fuels can result in oxidation and/or mold growth. Consult your vehicle manufacturer and your generator owner's manual to see if this option is applicable to your generator.

3200 QD is approved for B5 biodiesel only.

## OIL RECOMMENDATIONS

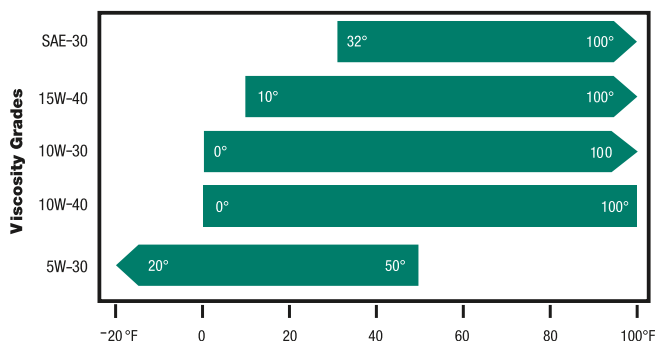
Oil changes are important. The first break-in oil change is critical to the longevity of the generator. Use a premium, quality engine oil (such as OnaMax™) in the correct oil viscosity for your generator's typical operating temperature range to provide optimum engine service. Avoid mixing different grades or brands.

It's good practice to check the oil level daily or every eight hours of operating time. Keep the oil level as near as possible to full, but do not overfill. Overfilling may cause foaming and engine shutdown. Replace the cap tightly to prevent leakage. And if your generator has an oil filter, change it when you change the oil.

DO NOT check the oil level while the generator is running because hot oil can be thrown out of the dipstick hole, causing severe burns.

- **Gasoline engine oil quality** — Use oil meeting any of the following API performance categories: SM or SN, where SN is currently the highest quality available. Look for the "Energy Conserving" designation to optimize fuel economy.
- **Diesel engine oil quality** — Use oil meeting any of the following API performance categories: CF, CF-4, CG-4, CH-4, CI-4 or CJ-4 where CJ-4 is currently the highest quality available. The use of oil meeting API performance category CF-4, CG-4, CH-4 or CI-4 while burning fuel with a sulfuric content greater than 0.5% or CJ-4 while burning fuel with a sulfuric content greater than 0.0015% is not recommended, as oil service is negatively impacted.
- **Oil viscosities** — Use the following chart to select correct viscosity grades for expected ambient temperature range.





*10W-30: preferred oil for gasoline /LP generators*

*15W-40: preferred oil for diesel generators*

*NOTE: All generators are shipped from the factory with 15W-40 oil, 10W-30 for gas.*

## COOLANT RECOMMENDATIONS

The quality of the coolant in your liquid-cooled generator is an important factor in performance and service life. Always use a 50/50 mixture of ethylene glycol-based antifreeze and water, which should be mixed thoroughly before adding to the generator's cooling system.

- **Water** — Use clean, soft water, distilled water or pure rain in your mixtures. If hard water or other forms of natural water are used, your generator's cooling system is more liable to oxidize, corrode and create deposits faster.
- **Antifreeze** — The core components of ethylene glycol-based antifreeze are acidic. Introduction of the cooling water creates alkaline properties that can rapidly corrode light metals. Be sure to select high-quality antifreeze with corrosion inhibitors to prevent cooling system problems. Also, be sure to maintain the cooling system, as use of antifreeze coolant for an extended period of time can result in increased corrosion.

In diesel applications, you can use the same coolant in your drive engine as your diesel generator. **BUT DO NOT MIX DIFFERENT TYPES OF COOLANT.**

## PREVENT FUEL VARNISHING

Fuel varnishing is a gummy residue that clogs the generator carburetor and fuel pump. It's caused by the deterioration of fuel that sits in the engine or fuel tank too long. This can happen in a surprisingly short period of time. Depending on fuel quality and storage conditions, modern blended gasoline fuels can deteriorate in as little as 30 days. As long as you refuel frequently with fresh gasoline and exercise the generator regularly, fuel varnishing is

less likely to occur. But if you leave the same gasoline in the tank for several months, you're very likely to have problems.

Fuel varnishing affects all engines, but it's more noticeable in generators because the engines are smaller. Even the slightest decrease in efficiency has a big impact on performance. A generator with varnish buildup may start but run like it needs a tune-up. It surges, accelerating and decelerating, but rarely settles at a stable operating speed. In many gasoline-powered units, the engine speed directly affects generator voltage output and frequency. As speed increases/decreases, so does the voltage and frequency.

One way to prevent fuel varnishing is to treat the contents of the tank supplying fuel to the generator with a fuel preservative and exercise the set. Cummins has developed a fuel preservative and stabilizer, OnaFresh™, specifically formulated for our generators. We recommend adding this preservative to the fuel, especially on infrequently used RVs. If stabilizer is added to the RV tank, the generator must then be exercised to pull the treated fuel into the generator's engine.

Tips to prevent generator fuel varnishing when storing your RV or for infrequent use (if you don't go through a full tank of fuel in less than 30 days):

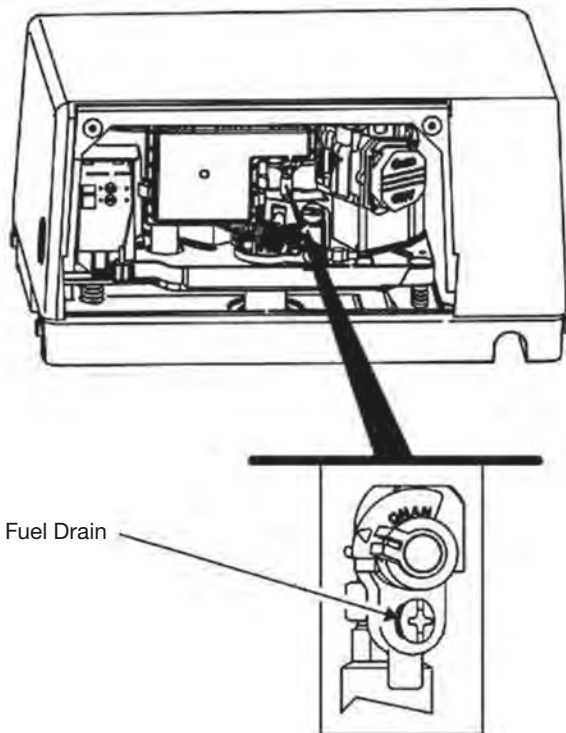
- Treat your fuel tank with a preservative like OnaFresh, then exercise your generator.
- Run the generator dry, then drain its carburetor float bowl.

To drain the float bowl, do the following:

- a. Let the engine cool down thoroughly.
- b. Place paper towels under the drain to absorb all of the drainage (less than ½ cup).
- c. Open the drain valve by turning it counterclockwise with a screwdriver.
- d. Close the drain valve after draining the carburetor by turning it clockwise with a screwdriver until just snug.

**! CAUTION: Do not open the carburetor drain when the engine is hot. Close the drain immediately after draining. Failure to heed this warning can lead to fire, resulting in severe personal injury or death.**

Once varnishing has occurred, adding a preservative won't correct the problem.



By understanding how to properly care for your RV generator and protect against fuel varnishing, you'll enjoy better performance and longer, service-free operation.

OnaFresh, along with other Green Label Parts maintenance products, can be found at your local Cummins authorized RV service and parts dealer. To locate your nearest dealer: [power.cummins.com/sales-service-locator](http://power.cummins.com/sales-service-locator).

**IMPORTANT: Problems caused by fuel varnishing will not be covered under warranty.**

# TROUBLESHOOTING GUIDE

Under normal operating conditions, you can expect your Cummins generator to perform reliably without problems. But if a problem does occur, you may be able to isolate the cause by using the following troubleshooting chart.

If you cannot discover and correct the problem, make a note of your generator model and serial numbers and contact your local Cummins authorized RV service and parts dealer.

| TROUBLESHOOTING GUIDE                                       |                                            |                                                         |
|-------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------|
| PROBLEM                                                     | PROBABLE CAUSE                             | SOLUTION                                                |
| Fails to crank                                              | Low battery.                               | Charge battery or replace defective battery.            |
|                                                             | Bad battery connection.                    | Clean and tighten all battery and cable connections.    |
|                                                             | Faulty starter.                            | Contact your Cummins authorized Onan RV service dealer. |
| Crankes slowly                                              | Low battery.                               | Check battery voltage at generator.                     |
|                                                             | Bad battery connection.                    | Clean and tighten all battery cable connections.        |
|                                                             | Incorrect oil viscosity.                   | Replace with recommended viscosity oil.                 |
|                                                             | Load connected.                            | Disconnect load before starting.                        |
| Crankes but won't start                                     | Fuel below generator pickup level in tank. | Add fuel.                                               |
|                                                             | Carbon deposits on spark plug(s).          | Remove spark plug(s) and replace.                       |
|                                                             | Low oil level.                             | Add oil.                                                |
| Exhausting black smoke                                      | Dirty air filter.                          | Replace air filter.                                     |
|                                                             | Choke stuck or misadjusted.                | Contact your Cummins authorized Onan RV service dealer. |
| Unit runs then stops, or stops when driving around a corner | Low fuel level.                            | Add fuel.                                               |
|                                                             | Low oil level.                             | Add oil.                                                |
|                                                             | Excess oil.                                | Reduce engine oil level.                                |
| Diesel excessive smoke on startup                           | Faulty glow plug.                          | Contact your Cummins authorized Onan RV service dealer. |

| TROUBLESHOOTING GUIDE                                              |                                                           |                                                                                                                |
|--------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| PROBLEM                                                            | PROBABLE CAUSE                                            | SOLUTION                                                                                                       |
| Unit starts and runs, then stops when the start switch is released | Low oil level.                                            | Check and bring all oil up to the appropriate levels.                                                          |
|                                                                    | No AC output.                                             | Contact your Cummins authorized Onan RV service dealer.                                                        |
| Unit runs then surges                                              | 1. Loose or worn spark plug leads.                        | 1. Check spark plug leads at spark plug and ignition coil.                                                     |
|                                                                    | 2. Defective ignition coil, wiring or control components. | 2. Contact your Cummins authorized Onan RV service dealer.                                                     |
|                                                                    | 3. Faulty spark plug.                                     | 3. Remove spark plug and clean or replace.                                                                     |
|                                                                    | 4. Governor out of adjustment.                            | 4. Contact your Cummins authorized Onan RV service dealer.                                                     |
|                                                                    | 5. Combustion air preheat malfunction.                    | 5. Contact your Cummins authorized Onan RV service dealer.                                                     |
|                                                                    | 6. Carburetor icing.                                      | 6. Move carburetor pre-heater to the winter position.                                                          |
|                                                                    | 7. Carburetor varnishing.                                 | 7. Try fuel system cleaner and contact dealer if no change.                                                    |
| Circuit breaker trips                                              | Overloaded circuit.                                       | Turn off some of the electric load and reset the circuit breaker.                                              |
| No electricity in coach                                            | Tripped circuit breaker.                                  | Reset the circuit breaker. Check at distribution panel and genset.                                             |
|                                                                    | Automatic Transfer Switch failure.                        | Possible issue with coach's Automatic Transfer Switch. Contact your Cummins authorized Onan RV service dealer. |
| No electric output at generator                                    | Other issue.                                              | Contact your Cummins authorized Onan RV service dealer.                                                        |

**WARNING!** Incorrect troubleshooting procedures can result in risks of property damage or death from fire, explosion, electrocution and asphyxiation or being caught or hit by moving parts. **DO NOT ATTEMPT TROUBLESHOOTING** unless you are trained and experienced in electrical and mechanical maintenance.

# FAULT CODES

## EXCEPT QD 3200

The genset controller provides extensive diagnostics by causing the status indicator light on the Start/Stop Control Switch to blink in a coded fashion. Anytime the generator shuts down without a stop button being requested, a fault will be generated. Following a fault shutdown, the indicator light will repeatedly blink one, two, three or four blinks at a time.

- One blink indicates shutdown due to high engine coolant temperature.
- Two blinks indicates a low oil pressure fault.
- Three blinks indicates a service fault. Press Stop once to cause the two-digit, second-level fault code to blink. (Pressing Stop again will stop the blinking.) The two-digit code consists of one, two, three, four or five blinks, a brief pause and then one to nine blinks. The first set of blinks represents the tens digit and the second set of blinks is the units digit of the fault code number. For example, Fault Code No. 36 appears as: blink-blink-blink — pause — blink-blink-blink-blink-blink-blink — long pause — repeat\*\*.

*\*\*A common service fault code is 36. Code 36 means that the generator shut down but was not “told” to shut down by the control. Usually this means the generator is not getting fuel. Check fuel level, filter and hoses.*

- Four blinks indicates that cranking exceeded 30 seconds without the engine starting.

*NOTE: Fault Code Nos. 3 and 4 are first-level faults. Avoid interpreting them as second-level Fault Code Nos. 33 and 44, which have not been assigned as fault codes.*

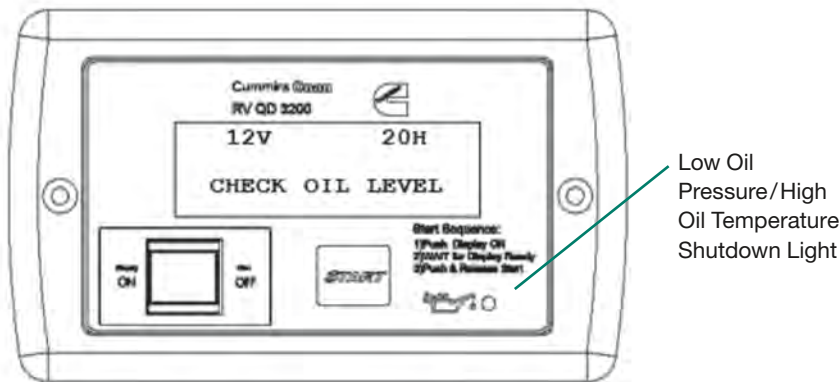
**Restoring Fault Code Blinking** — The fault code stops blinking after five minutes (15 minutes, Series HGJAA). Press Stop three times within five seconds to restore blinking. Note that the last fault logged will blink, even after the condition that caused the shutdown has been corrected.

Fault codes are a key element to determining what is happening with your generator; however, not all fault codes indicate a serious condition. When requesting service, knowing your last fault code will greatly help in a quick and accurate diagnostic. A more complete answer can be given if you know the answer to this question.

For a complete list of all the fault codes, please refer to the operator’s manual.

# QD 3200 CONTROL PANEL MAINTENANCE MESSAGES

- CHECK OIL LEVEL — Every 20 hours
- CHANGE OIL — At 50 hours and then every 250 hours



## OIL CHANGE/CHECK OIL LEVEL

| ALARM                                                          | TIME PERIOD                                     | WHAT THIS MEANS                          | GENERATOR RESPONSE    | HOW TO RESET                                                        |
|----------------------------------------------------------------|-------------------------------------------------|------------------------------------------|-----------------------|---------------------------------------------------------------------|
| Check Oil Level                                                | Every 20 hours                                  | Reminder to check your oil level         | None — Just a warning | Press Start and Hold when generator is running until message clears |
| Change Oil                                                     | First time at 50 hours and then every 250 hours | Reminder to change your oil              | None — Just a warning | Press Start and Hold when generator is running until message clears |
| Oil Indicator Light — Low Oil Pressure or High Oil Temperature | NA                                              | Low oil pressure or high oil temperature | Shutdown              | Resets on restart after a period of time                            |

If Check Oil Level or Change Oil is not reset, it will reappear after an hour of running and every time the generator is started.

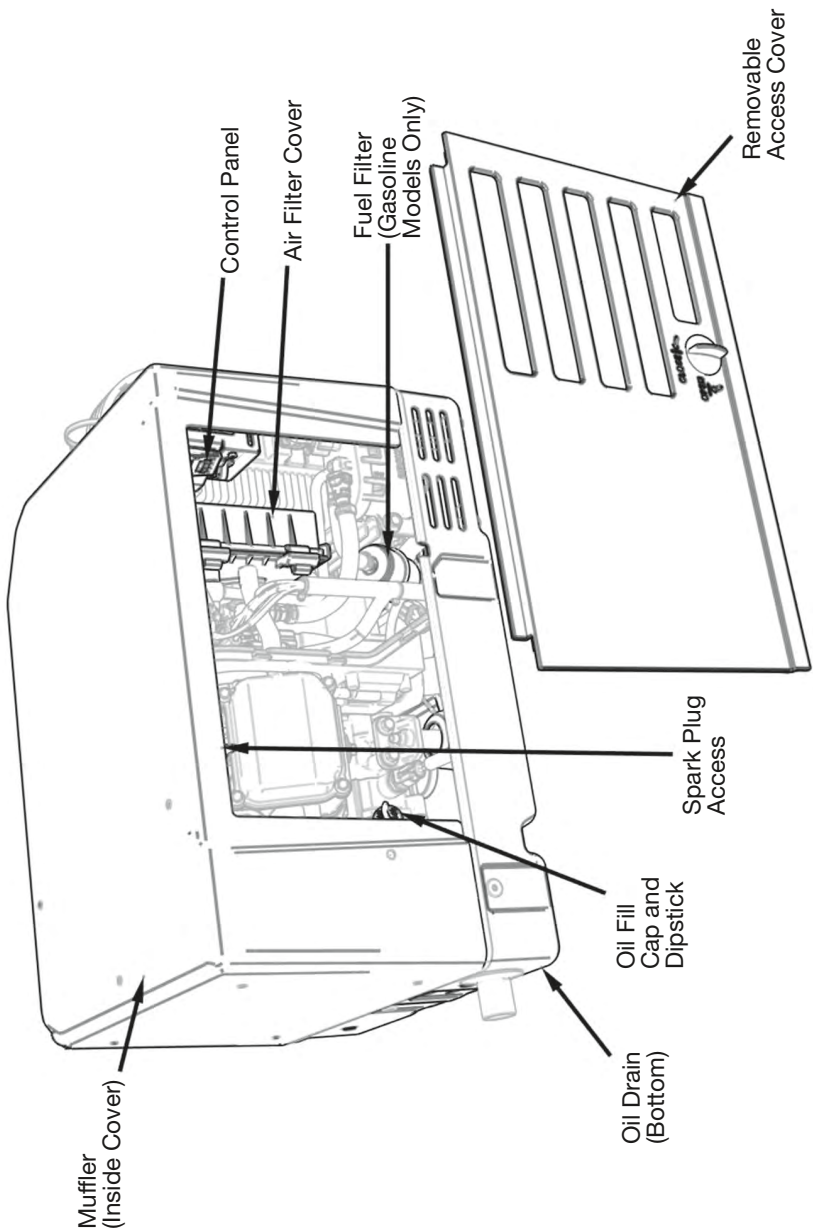


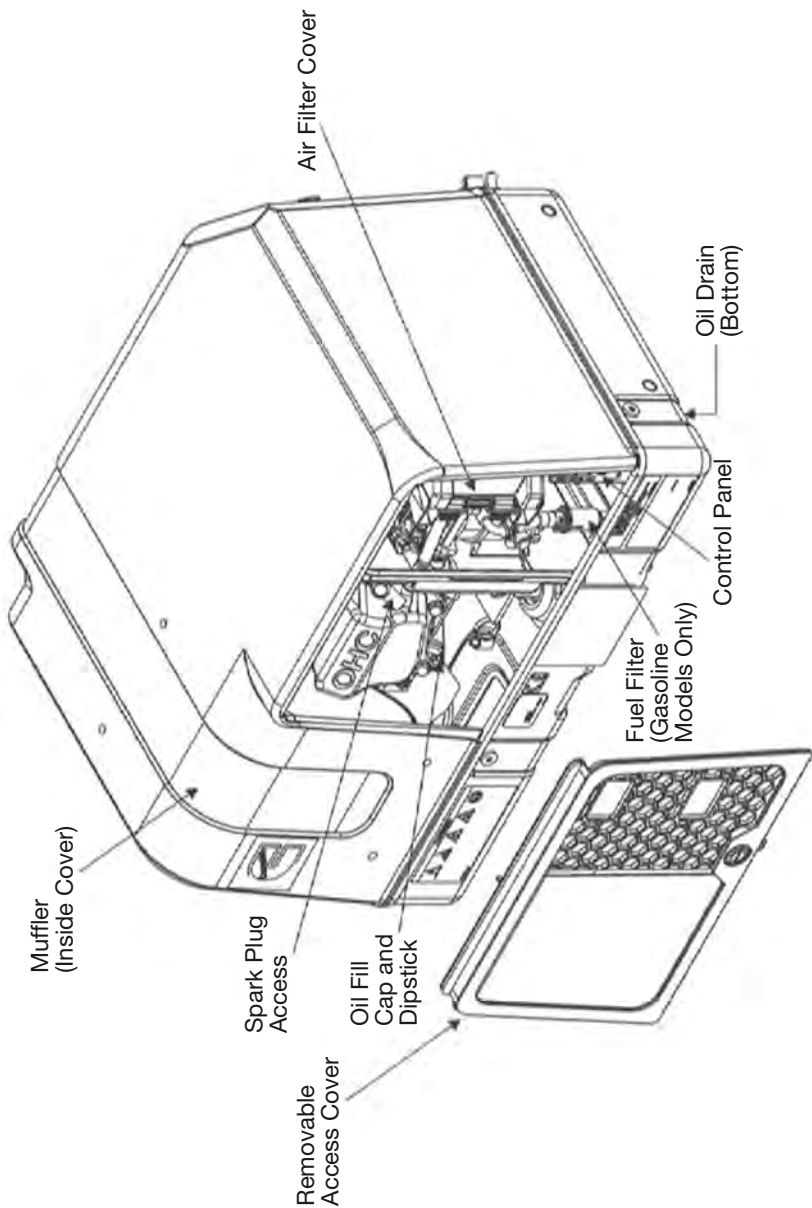
For more RV product info, scan to  
visit the Cummins' literature app

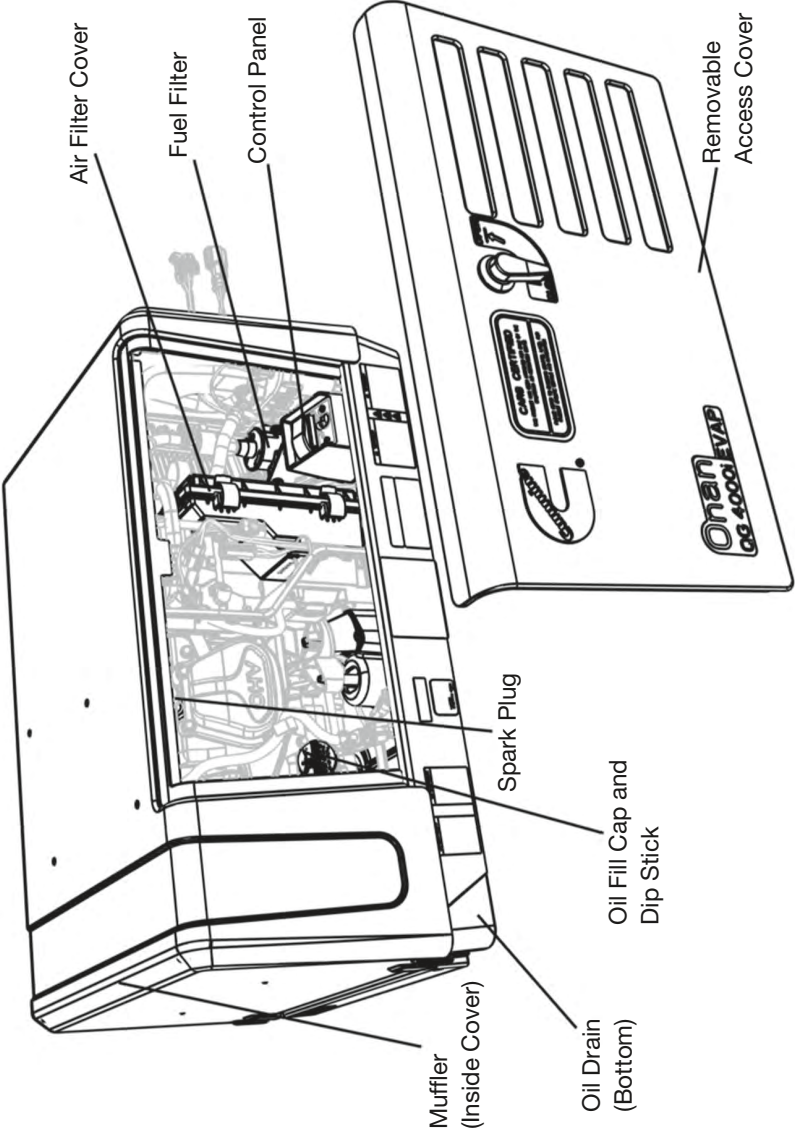


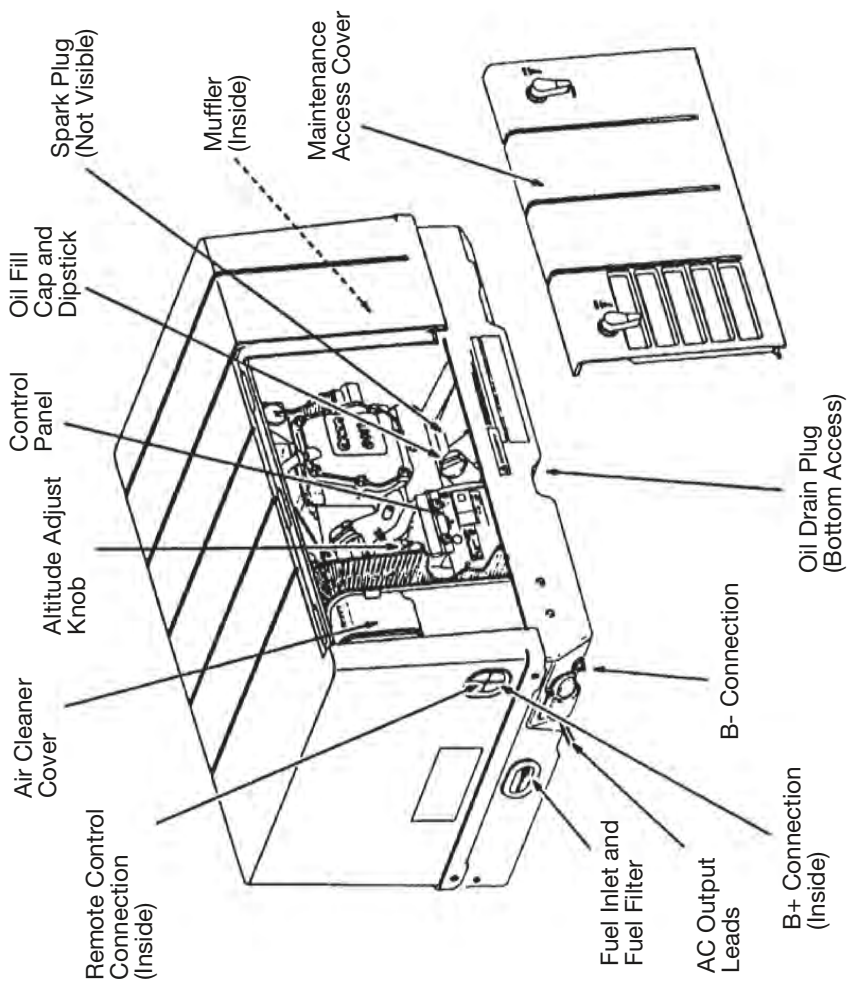
# SERVICE DIAGRAMS

ONAN QG 2500i LP / 2800i

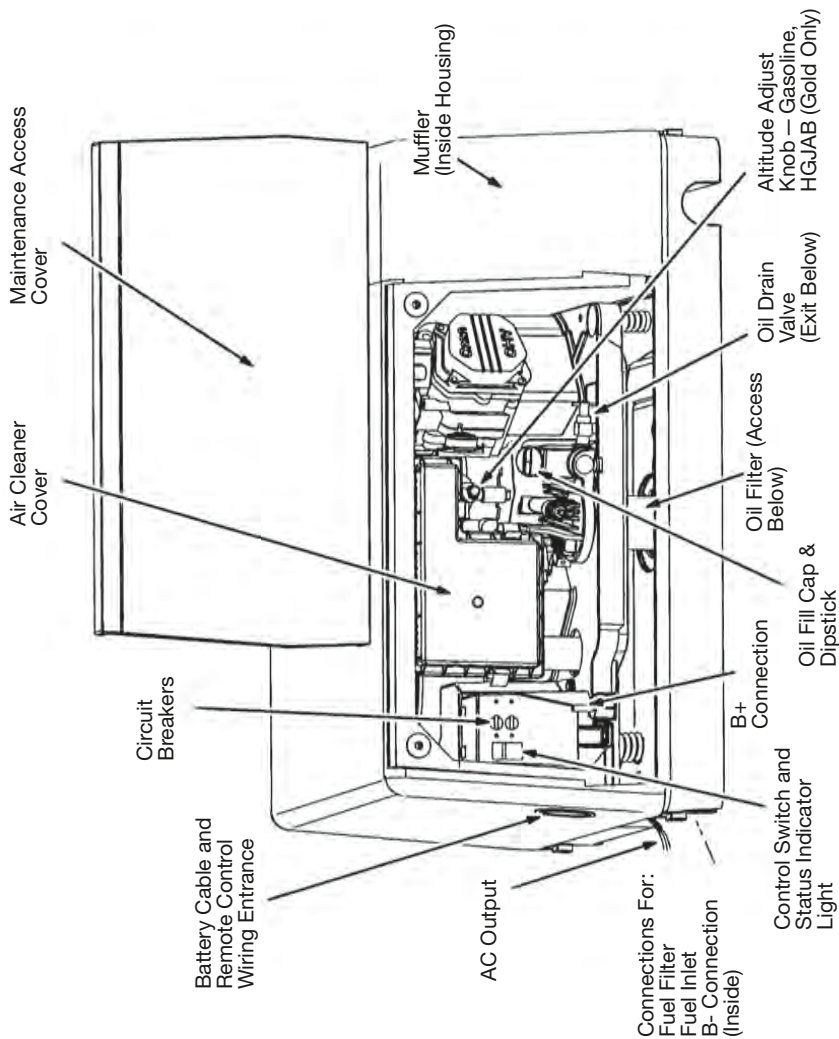


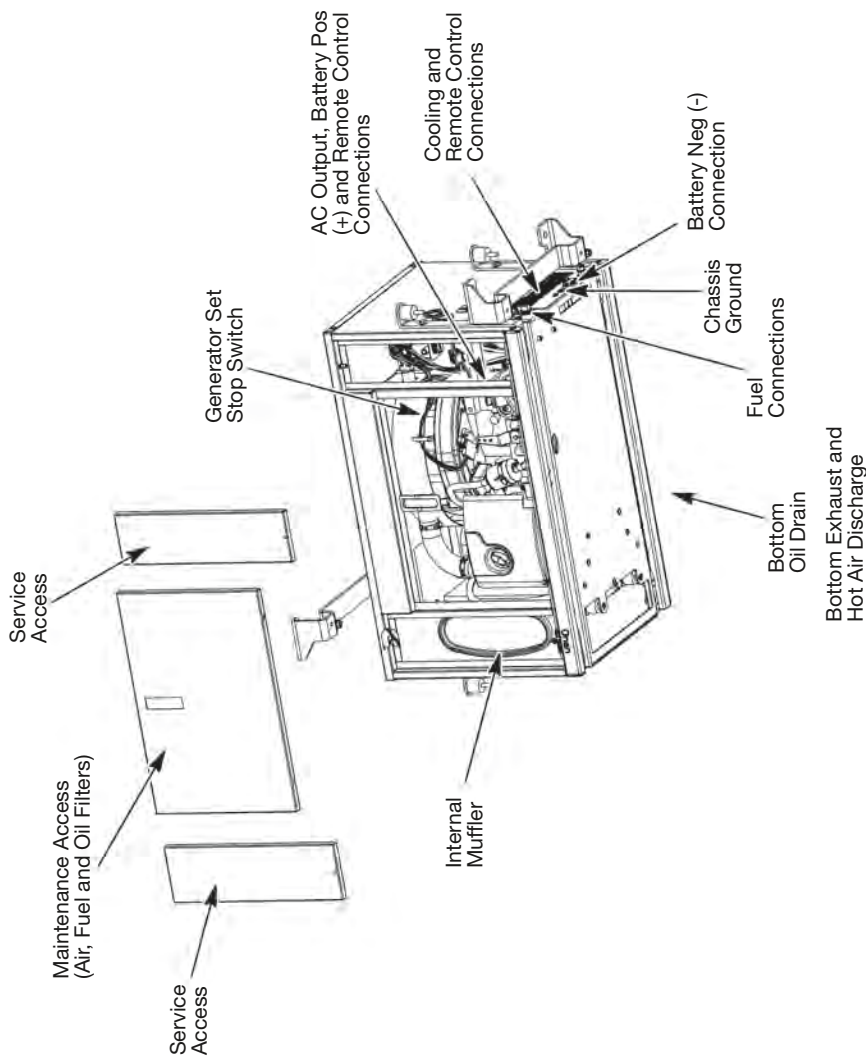


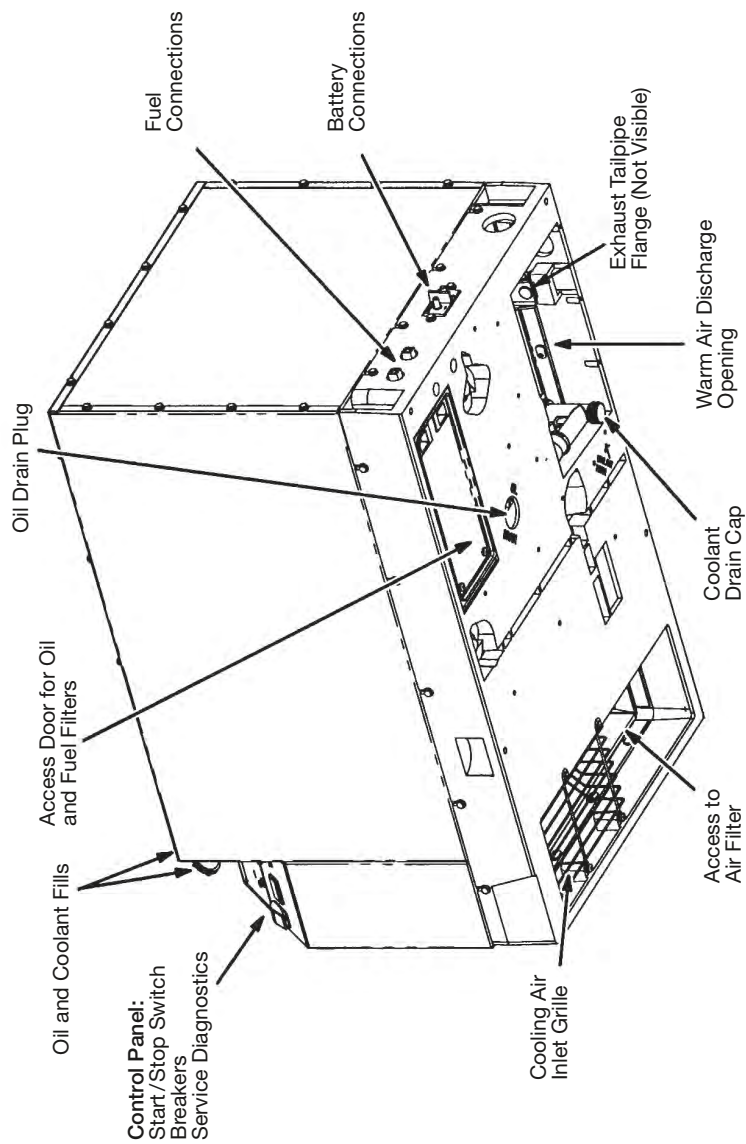




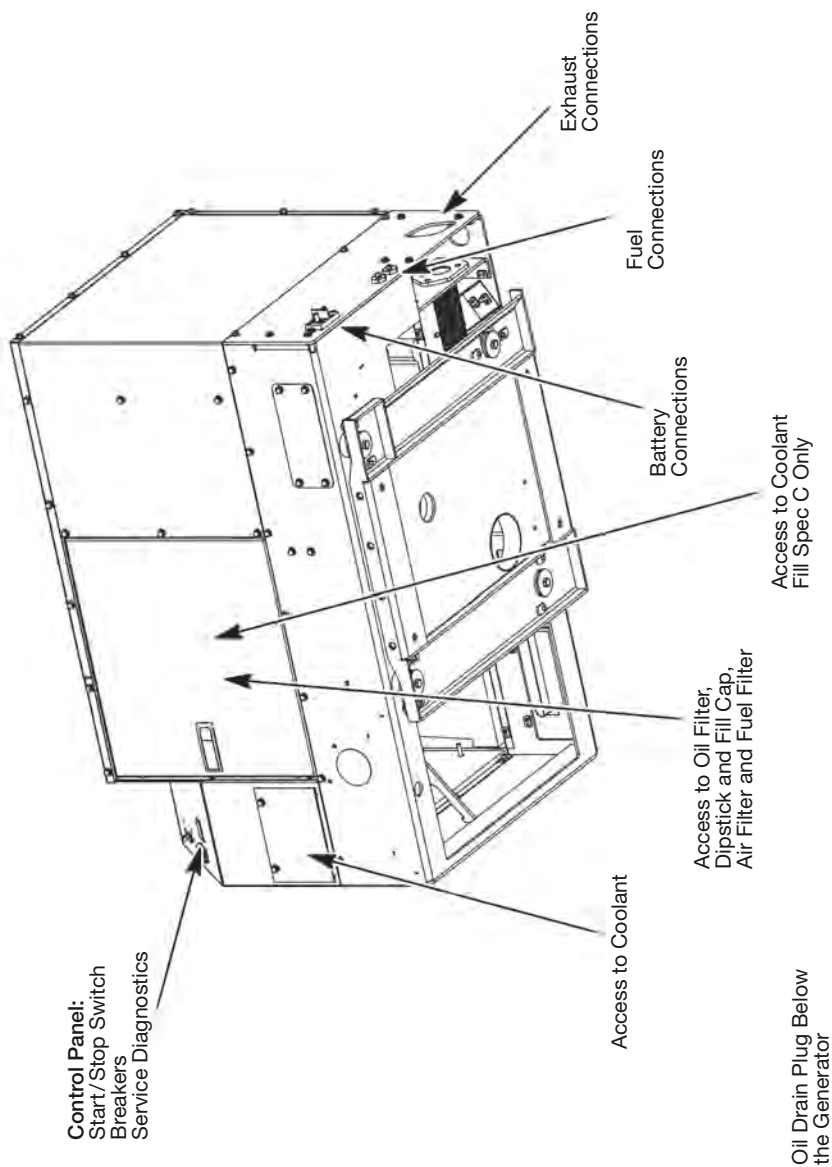
ONAN QG 5500 / 7000  
ONAN QG 5500 EFI / 7000 EFI



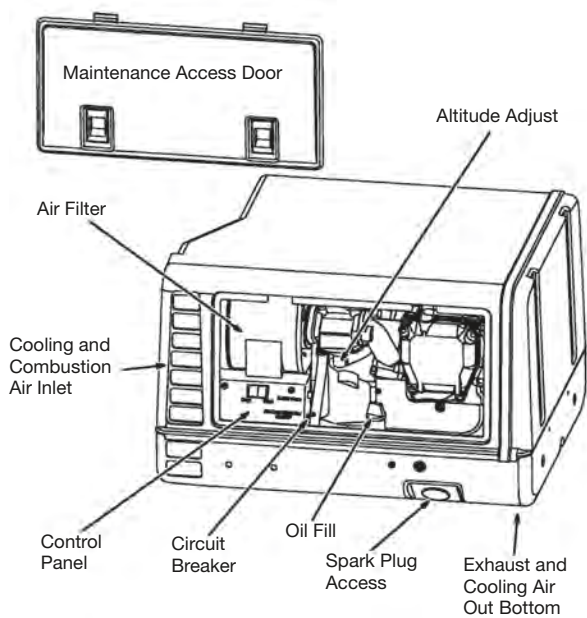




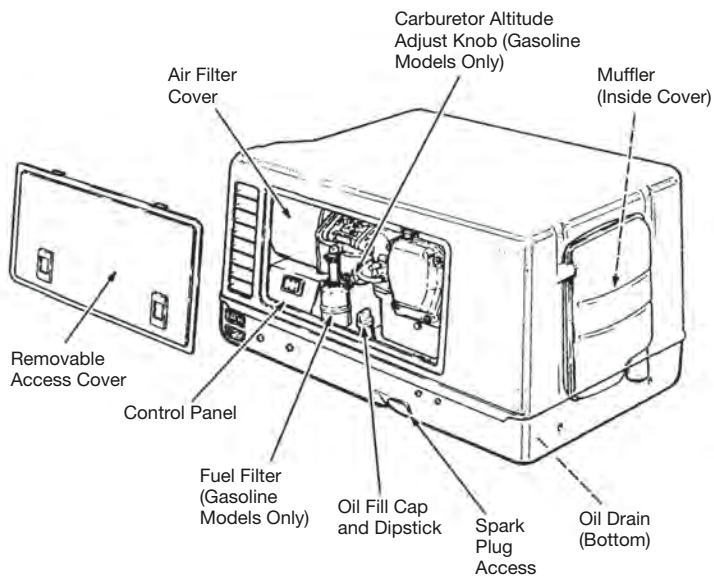




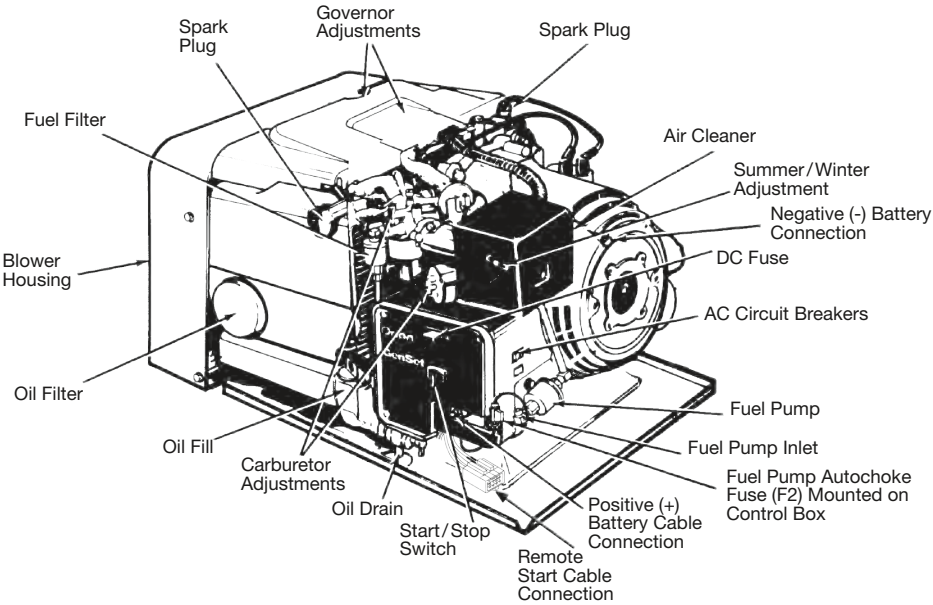
**ONAN QG 2500 LP RM / 2800 RM (KVD)**



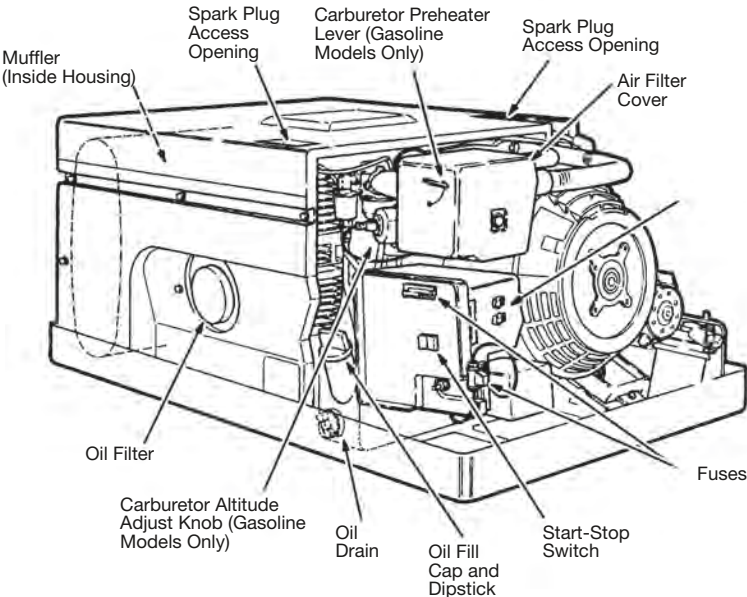
**ONAN QG 2500 LP / 2800 / 2800 EVAP (KV)**



**BGE/NHE**



**MARQUIS™**





## 6 | GENERATOR MAINTENANCE: PARTS AND CHEMICALS

### INSIST ON THE QUALITY OF GREEN LABEL PARTS

Green Label replacement and maintenance products have been specially designed for Cummins RV generator use to provide you with dependable power and performance for the life of your generator. They are available from all Cummins authorized RV service and parts dealers.

You can also order maintenance parts online at [shop.cummins.com](http://shop.cummins.com) (for orders within the U.S.) or [shop.cummins.ca](http://shop.cummins.ca) (for orders within Canada). See pages 52–56 for part numbers by set.



## MAINTENANCE KITS

Maintenance kits are available for most of our current Onan RV generator diesel, gas and LP models. These kits offer an exceptional value and provide you with everything needed to perform your regular maintenance. Each maintenance kit includes the necessary components to do the basic maintenance for your specific generator. These components may include:

- OnaMax oil
- Air, fuel and oil filter
- Spark plug(s)

Maintenance Kit part numbers:

|                         |                         |
|-------------------------|-------------------------|
| A049E501 HGJAB — Gas    | A049E506 HGJAB — LP     |
| A050E991 KY B — Gas     | A050E993 KY — LP        |
| A060Z347 HGJBB — Gas    | A063P557 HGLAA — LP     |
| A065J075 HGLAA — LP     | A060Z345 KY 50Hz — Gas  |
| A074L919 HGLBA — Gas    | A060Z229 HDKCA — Diesel |
| A060Z227 HDKAK — Diesel | A060Z343 HGJAD — Gas    |
| A060Z222 HDKBB — Diesel |                         |

## AIR FILTERS

Green Label Parts are designed specifically for use in Cummins RV generators. Other manufacturers' air filters may contain a lighter density filter paper, and the sealing surfaces may get brittle and crack over time, allowing dirty air into the engine intake system. Over time, it only takes about a thimbleful of dirt to wear out piston rings and cylinders.

## SPARK PLUGS

The use of Green Label, resistive, original equipment spark plugs will keep your Cummins genset working properly. Use of other non-resistive plugs can cause generator shutdowns without fault codes.

## OIL FILTERS

Green Label Parts oil filters feature valves that allow oil to bypass the oil filter during cold starts or if the filter becomes plugged. Other manufacturers' oil filters often do not have bypass valves. As these "will-fit" filters trap debris, oil pressure starvation can occur, leading to high oil pressures, failed gaskets and even engine damage. Other "will-fit" oil filters may contain a bypass valve, but it's not possible to determine at what psi the valve opens. If the setting is too high, the filter's paper element can be damaged during a cold start, rendering it useless, or cause oil starvation to the engine.

## FUSE PACK KIT

Pack of five fuses for use in most Cummins RV generators. Part #0541-1330.

## **OIL FILTER WRENCH**

Cup-type for easy removal of Cummins RV generator oil filters. Part #420-0577. The 420-0577 only fits the 122-0836 (5.5–7 QG) filter. The 420-0559 fits the older BG and NH product 122-0645 and 122-0800 oil filters.

**IMPORTANT: Cummins warrants only the quality and integrity of Green Label Parts. Any damage caused by the use of non-Green Label Parts filters will not be covered under the Cummins limited warranty.**

## **USE CUMMINS OIL AND SERVICE/MAINTENANCE CHEMICALS TO ENSURE PERFORMANCE**

### **ONAMAX™ 15W-40 OIL AND 10W-30 OIL**

Factory recommended and tested. Maximum protection engine oil formulated to reduce consumption and engine wear due to high-temperature oil oxidation and viscosity increase. Each 32 oz. bottle can be used on diesel or gas generators. This is the only oil targeted to the RV industry to work on either a diesel or gas engine. All others only work on one or the other.



15W-40 #326-5336 (preferred oil for diesel engines)  
10W-30 #A063E183 (preferred oil for gasoline engines)

### **ONAFRESH™ GXLP FUEL STABILIZER**

A premium fuel additive specially formulated for long-lasting prevention of gasoline breakdown during extended RV storage. Protects gasoline against gum, varnish and sludge formation and fuel system corrosion. 16 oz. bottle treats 40 gallons of gasoline. #326-5365.

### **ONAGARD™ STORAGE FOGGING SPRAY**

Protects small engines and other mechanical equipment during off-season storage. Provides protection for up to six months. 12 oz. aerosol can. #326-5288.

When reliability counts, insist on Green Label Parts. Genuine Cummins.

| Brand Name<br>Model/Series                                                                                     | Spec<br>Letter | Tune-up<br>Kit      | Oil<br>Filter         | Air<br>Filter                                  | Fuel<br>Filter                                        | Glow Plug or<br>Spark Plug | Plug Wire |
|----------------------------------------------------------------------------------------------------------------|----------------|---------------------|-----------------------|------------------------------------------------|-------------------------------------------------------|----------------------------|-----------|
| Cummins RV QG 2800 Series, RV QG 4000 Series, Camp Power, Onan MicroLite, Onan MicroQuiet™                     |                |                     |                       |                                                |                                                       |                            |           |
| KVD                                                                                                            | A-C            | Electronic Ignition | ●                     | 140-2105 <sup>C</sup>                          | 149-2137 <sup>H</sup>                                 | 167-0263-02 <sup>H</sup>   | ●         |
| KV                                                                                                             | A-M            | Electronic Ignition | ●                     | 140-2105 <sup>C</sup>                          | 149-2137 <sup>I</sup>                                 | 167-0263-02 <sup>I</sup>   | ●         |
| KVC                                                                                                            | A-C, F         | Electronic Ignition | ●                     | 140-2105 <sup>C</sup>                          | 149-2137 <sup>H</sup>                                 | 167-0263-02 <sup>H</sup>   | ●         |
| HGJBB                                                                                                          | A-B            | Electronic Ignition | ●                     | A030Y328 <sup>E</sup>                          | 149-2661 <sup>I</sup>                                 | 167-1652 <sup>I</sup>      | ●         |
| HGLAA — Gasoline                                                                                               | A              | Electronic Ignition | ●                     | A030Y328 <sup>E</sup>                          | A063N529 <sup>H</sup>                                 | A063D063 <sup>I</sup>      | ●         |
| HGLAA — LP                                                                                                     | A              | Electronic Ignition | ●                     | A030Y328 <sup>E</sup>                          | -                                                     | A063D063 <sup>I</sup>      | ●         |
| KY 50 Hz                                                                                                       | A-H            | Electronic Ignition | ●                     | 140-3280 <sup>E</sup>                          | 149-2457 <sup>I</sup>                                 | 167-0305 <sup>I</sup>      | ●         |
| KY 60 Hz                                                                                                       | A<br>B-H       | Electronic Ignition | ●                     | 140-2609 <sup>E</sup><br>140-3280 <sup>E</sup> | 149-2457 <sup>I</sup>                                 | 167-0275 <sup>I</sup>      | ●         |
| KY 50 Hz<br>KY 60 Hz                                                                                           | J-R            | Electronic Ignition | ●                     | 140-3280 <sup>C</sup>                          | 149-2457 <sup>H</sup><br>149-0275 <sup>H</sup>        | 167-0305 <sup>H</sup>      | ●         |
| HGLBA                                                                                                          | A              | Electronic Ignition | ●                     | A030Y328                                       | A062A970                                              | A063D063                   | ●         |
| Cummins Onan RV QG 5500 Series, RV QG 7000 Series, Emerald Advantage, Onan Marquis Gold, Onan Marquis Platinum |                |                     |                       |                                                |                                                       |                            |           |
| Carb — HGJAC<br>LP Liquid/HGJAC<br>LP Vapor/HGJAC                                                              | A-K            | Electronic Ignition | 122-0836 <sup>C</sup> | 140-3116 <sup>C</sup>                          | *See note below <sup>H</sup><br>149-2648 <sup>H</sup> | 167-1638 <sup>H</sup>      | ●         |
| Carb — HGJAB<br>LP Liquid/HGJAB<br>LP Vapor/HGJAB                                                              | A-L            | Electronic Ignition | 122-0836 <sup>C</sup> | 140-3116 <sup>C</sup>                          | *See note below <sup>H</sup><br>149-2648 <sup>H</sup> | 167-1638 <sup>H</sup>      | ●         |
| EFI/HGJAA<br>LP Liquid/HGJAA<br>LP Vapor/HGJAA                                                                 | A-L            | Electronic Ignition | 122-0836 <sup>C</sup> | 140-3116 <sup>C</sup>                          | 541-1442 <sup>H,J</sup><br>149-2648 <sup>H</sup>      | 167-1638 <sup>H</sup>      | ●         |
| * At fuel pump use 149-2341-01; At carb replace filter with A0295253 adaptor                                   |                |                     |                       |                                                |                                                       |                            |           |



| Brand Name<br>Model/Series                                                       | Spec<br>Letter | Tune-up<br>Kit      | Oil<br>Filter         | Air<br>Filter         | Fuel<br>Filter                                                          | Glow Plug or<br>Spark Plug | Plug Wire                      |
|----------------------------------------------------------------------------------|----------------|---------------------|-----------------------|-----------------------|-------------------------------------------------------------------------|----------------------------|--------------------------------|
| Cummins Onan RV QD 3200 Series, RV QD 6000/8000 Series, RV QD 10000/12500 Series |                |                     |                       |                       |                                                                         |                            |                                |
| HDKAH                                                                            | A-K<br>L-P     | ●                   | 122-0833 <sup>c</sup> | 140-2897 <sup>i</sup> | 149-2513 <sup>i</sup><br>541-1442 <sup>i</sup>                          | 185-5421                   | ●                              |
| HDKAK                                                                            | A-K<br>L-P     | ●                   | 122-0833 <sup>c</sup> | 140-2897 <sup>i</sup> | 149-2513 <sup>i</sup><br>147-0860 <sup>i</sup>                          | 185-5421                   | ●                              |
| HDKCA/CB                                                                         | A-F<br>G-H     | ●                   | 122-0893 <sup>E</sup> | 140-3071 <sup>i</sup> | 149-2513 <sup>i</sup>                                                   | 185-5990<br>A047D863       | ●                              |
| HDZAA                                                                            | A-E            | ●                   | Clean every 1000 hrs  | 140-4151 <sup>i</sup> | 149-2834 <sup>i</sup>                                                   | ●                          | ●                              |
| Onan HQD Series                                                                  |                |                     |                       |                       |                                                                         |                            |                                |
| HQDPA                                                                            | A-C            | ●                   | 122-0833 <sup>c</sup> | 140-2897 <sup>i</sup> | 541-1442 <sup>i</sup>                                                   | 185-5421                   | ●                              |
| HQDPB                                                                            | A<br>B         | ●                   | 185-5835 <sup>c</sup> | 140-3071 <sup>i</sup> | 541-1442 <sup>i</sup>                                                   | 185-5421<br>333-0802       | ●                              |
| HQDPC                                                                            | C              | ●                   | 122-0833 <sup>c</sup> | 140-2897 <sup>i</sup> | 541-1442 <sup>i</sup>                                                   | 185-5421                   | ●                              |
| Onan Emerald™                                                                    |                |                     |                       |                       |                                                                         |                            |                                |
| BGE                                                                              | A-E<br>F       | 160-1378            | 122-0645 <sup>c</sup> | 140-2379 <sup>c</sup> | ●<br>149-2279 <sup>F</sup>                                              | 167-0272 <sup>c</sup>      | 9" 167-1615-01<br>26" 167-1602 |
| BGE                                                                              | G<br>H<br>J-P  | Electronic Ignition | 122-0645 <sup>c</sup> | 140-2379 <sup>F</sup> | 149-2279 <sup>i</sup><br>149-1353 <sup>i</sup><br>149-2333 <sup>i</sup> | 167-0272 <sup>i</sup>      | 9" 167-1615-01<br>26" 167-1602 |

| Brand Name<br>Model / Series          | Spec<br>Letter | Tune-up<br>Kit          | Oil<br>Filter         | Air<br>Filter         | Fuel<br>Filter                                                          | Glow Plug or<br>Spark Plug | Plug Wire                         |
|---------------------------------------|----------------|-------------------------|-----------------------|-----------------------|-------------------------------------------------------------------------|----------------------------|-----------------------------------|
| Emerald or Older                      |                |                         |                       |                       |                                                                         |                            |                                   |
| BGEL                                  | A-E            | 160-1378                | 122-0645 <sup>C</sup> | 140-2379 <sup>C</sup> | 148-0898 <sup>C</sup>                                                   | 167-0272 <sup>C</sup>      | 9" 167-1615-01<br>26" 167-1602    |
| NHE                                   | A-E            | 160-1378                | 122-0800 <sup>C</sup> | 140-2379 <sup>C</sup> | ●                                                                       | 167-0272 <sup>C</sup>      | 9" 167-1615-01<br>26" 167-1602    |
| Prior to 9/87 NHE<br>Begin 9/87 NHE   | F              | 160-1349-01             | 122-0800 <sup>C</sup> | 140-2379 <sup>F</sup> | 149-2279 <sup>F</sup>                                                   | 167-0272 <sup>I</sup>      | 160-1378                          |
| NHE                                   | G<br>H<br>J-P  | Electronic Ignition     | 122-0800 <sup>C</sup> | 140-2379 <sup>F</sup> | 149-2279 <sup>I</sup><br>149-1353 <sup>I</sup><br>149-2333 <sup>I</sup> | 167-0272 <sup>I</sup>      | 9" 167-1615-01<br>26" 167-1602    |
| NHEL                                  | A-E            | 160-1378                | 122-0800 <sup>C</sup> | 140-2379 <sup>F</sup> | 148-0898 <sup>I</sup>                                                   | 167-0272 <sup>I</sup>      | 9" 167-1615-01                    |
| Prior to 9/87 NHEL<br>Begin 9/87 NHEL | F              | 160-1378<br>160-1349-01 | 122-0645 <sup>C</sup> | 140-2379 <sup>F</sup> | 149-2279 <sup>I</sup>                                                   | 167-0272 <sup>I</sup>      | 9" 167-1615-01<br>26" 167-1602    |
| Onan Marquis™                         |                |                         |                       |                       |                                                                         |                            |                                   |
| Gasoline/BMG                          | A-F<br>G-H     | Electronic Ignition     | 122-0645 <sup>C</sup> | 140-2379 <sup>C</sup> | 149-2279 <sup>I</sup><br>149-2341                                       | 167-0272 <sup>I</sup>      | 9" 167-1625-01<br>23" 167-1625-02 |
| Gasoline/NHM                          | A-F<br>G-H     | Electronic Ignition     | 122-0800 <sup>C</sup> | 140-2379 <sup>C</sup> | 149-2279 <sup>I</sup><br>149-2341                                       | 167-0272 <sup>I</sup>      | 23" 167-1602                      |
| LP/NHM                                | All            | Electronic Ignition     | 122-0800 <sup>C</sup> | 140-2379 <sup>C</sup> | 148-0898 <sup>I</sup>                                                   | 167-0272 <sup>G</sup>      | 23" 167-1602                      |

| Brand Name<br>Model / Series | Spec<br>Letter    | Tune-up<br>Kit | Oil<br>Filter           | Air<br>Filter                   | Fuel<br>Filter                                      | Glow Plug or<br>Spark Plug                     | Plug Wire                      |
|------------------------------|-------------------|----------------|-------------------------|---------------------------------|-----------------------------------------------------|------------------------------------------------|--------------------------------|
| Older Onan Generators        |                   |                |                         |                                 |                                                     |                                                |                                |
| BF Power Drawer              | A                 | 312-0069       | 122-0645 <sup>D</sup>   | 140-1220 <sup>D</sup>           | ●                                                   | 167-0262 <sup>B</sup>                          | 167-1616-01                    |
| BF RV                        | A-B               | ●              | ●                       | 140-0495 <sup>D</sup>           | ●                                                   | 167-0237 <sup>B</sup>                          | 167-1602                       |
| BFA RV                       | A<br>B-D          | ●              | 122-0645 <sup>C</sup>   | 140-0495<br>Clean every 150 hrs | ●                                                   | 167-0237 <sup>C</sup><br>167-0298 <sup>C</sup> | 167-1602                       |
| BGA RV                       | A<br>B-D          | ●              | 122-0645 <sup>B</sup>   | 140-0495 <sup>D</sup>           | ●                                                   | 167-0237 <sup>B</sup><br>167-0298 <sup>B</sup> | 167-1602                       |
| BGAL RV                      | C                 | ●              | 122-0645 <sup>B</sup>   | 140-0495 <sup>D</sup>           | ●                                                   | 167-0298 <sup>B</sup>                          | 167-1602                       |
| CCK Mobile/RV                | A-Q<br>R-U        | ●              | 122-0800 <sup>A,D</sup> | ●<br>140-0495 <sup>D</sup>      | ●                                                   | 167-0237 <sup>B</sup>                          | 167-1602                       |
| LK RV                        | A-L<br>M          | ●              | ●                       | ●<br>140-1220 <sup>D</sup>      | ●<br>149-1353 <sup>G</sup>                          | 167-0237 <sup>D</sup>                          | ●                              |
| NH Power Drawer              | A                 | 312-0069       | 122-0800 <sup>A,B</sup> | 140-1229 <sup>D</sup>           | ●                                                   | 167-0262 <sup>D</sup>                          | 167-1616-01                    |
| NH Power Drawer 9000         | A-H               | 312-0069       | 122-0800 <sup>A,B</sup> | 140-1229 <sup>D</sup>           | ●                                                   | 167-0262 <sup>D</sup>                          | 167-1616-01                    |
| NH RV                        | A-H<br>J-N<br>P-R | ●              | 122-0800 <sup>A,B</sup> | 140-0495 <sup>D</sup>           | 167-0241 <sup>D</sup><br>●<br>167-0272 <sup>D</sup> | 167-0247 <sup>D</sup>                          | 167-1616-01                    |
| NHL                          | P                 | ●              | 122-800 <sup>B</sup>    | 140-0495 <sup>D</sup>           | ●                                                   | 167-0272 <sup>B</sup>                          | 9" 167-1615-01<br>26" 167-1602 |

| Brand Name<br>Model/ Series  | Spec<br>Letter | Tune-up<br>Kit | Oil<br>Filter         | Air<br>Filter         | Fuel<br>Filter                                 | Glow Plug or<br>Spark Plug | Plug Wire |
|------------------------------|----------------|----------------|-----------------------|-----------------------|------------------------------------------------|----------------------------|-----------|
| Older Onan Diesel Generators |                |                |                       |                       |                                                |                            |           |
| HDKAG                        | A-B            |                |                       |                       |                                                | 185-6623                   |           |
|                              | C              | ●              | 185-5835 <sup>B</sup> | 140-2842 <sup>I</sup> | A026K278 <sup>E</sup>                          | 185-5421                   | ●         |
|                              | D-F            |                |                       |                       |                                                | 185-5421                   |           |
|                              | G              |                |                       |                       |                                                | 333-0805                   |           |
| DKC RV                       | A-B            | ●              | 122-0827 <sup>B</sup> | 140-2842 <sup>I</sup> | 149-1914-05 <sup>E</sup>                       | 185-2289                   | ●         |
| DKD RV                       | A-E            | ●              | 122-0827 <sup>B</sup> | 140-2842 <sup>I</sup> | 149-1914-05 <sup>E</sup>                       | 185-2289                   | ●         |
| DKG                          | A              | ●              | 122-0827 <sup>B</sup> | 140-2680 <sup>I</sup> | A026K278 <sup>E</sup>                          | 185-2289                   | ●         |
| HDCAA /AB                    | A-D            | ●              | 187-1000 <sup>E</sup> | 140-3071 <sup>I</sup> | 149-2513 <sup>I</sup>                          | 187-1289                   | ●         |
| HDKAJ                        | A-K<br>L       | ●              | 122-0833 <sup>C</sup> | 140-2897 <sup>I</sup> | 149-2513 <sup>I</sup><br>541-1442 <sup>J</sup> | 185-5421                   | ●         |
| HDKBA                        | A-E            | ●              | 122-0833 <sup>C</sup> | 140-3351              | 149-2513 <sup>I</sup>                          | 185-5421                   | ●         |

#### NOTES

- Interval recommendations assume oil changes are after initial break-in.
- If fewer than the recommended hours, then change annually.
- Change more often in dirty and dusty conditions.  
Please refer to your operator's manual for more detail.
- If required.
- If discrepancy between the guide and your operator's manual, the operator's manual wins.

#### Maintenance intervals

- |              |              |              |                                      |
|--------------|--------------|--------------|--------------------------------------|
| A. 50 hours  | D. 200 hours | G. 400 hours | J. 541-1442 Fuel Filter kit includes |
| B. 100 hours | E. 250 hours | H. 450 hours | 147-0860 Fuel Filter and two         |
| C. 150 hours | F. 300 hours | I. 500 hours | 503-2808 screw drive clamps.         |



## 7 | WARRANTY AND SERVICE

### **STANDARD THREE-YEAR LIMITED WARRANTY WITH AVAILABLE FIVE-YEAR EXTENDED COVERAGE**

We're so confident in our RV generators, we back them with a standard three-year limited warranty — the longest, most comprehensive warranty in the business. In order to receive the latest updates for your generator, please go to [now.cummins.com/product-registration-consumer](https://now.cummins.com/product-registration-consumer) and fill out the registration form. Coverage is transferable from one owner to another if you sell your RV during the generator warranty period.

### **LARGEST AUTHORIZED SERVICE AND PARTS DEALER NETWORK IN THE INDUSTRY**

Wherever you travel, Cummins authorized RV service and parts dealers are never far away. Authorized dealers trained and tested in all aspects of generator operation and maintenance cover every major market in the United States and Canada. Cummins' extensive training and certification process demonstrates our strong commitment to exceptional product service and support. Find a list of Cummins authorized RV service dealers in the United States and Canada by visiting [locator.cummins.com](https://locator.cummins.com).

For Onan RV generators, warranty commences with the sale to the first retail purchaser. Your bill of sale is your proof of the start date. If the RV was used by a dealer or OEM as a demo unit, warranty would start once the generator reaches 100 hours of operation or with the first retail purchase of the RV. Whichever comes first.

# MAKE GENERATOR MANAGEMENT EASY WITH EC-AGS+

## INSTALLATION IS A SNAP.

Just plug the EC-AGS+ into the generator, attach it to the battery terminal and you're done. No coach wiring needed — wireless temperature sensors can go anywhere.



## CONTROL IS AT YOUR FINGERTIPS.

Once you have completed the installation, download the EC-AGS+ app to complete setup. Within the app, you can manage live monitoring, remote start and advanced diagnostics.

## SERVICE IS DECODED.

The app makes maintenance simple, delivering a fault code notification to your cellphone that explains any recommended updates or issues.

## MAKE THE MOST OUT OF YOUR DAY.

Whether you're driving across the country or parked in a sweltering desert, the EC-AGS+ is built for your peace of mind.

- **Intelligent design.** Start your generator from the app,\* or through voice activation with Siri or Google. Works with both iOS and Android (Bluetooth compatible).
- **Hassle-free updates.** With remote software and firmware management, a technician isn't needed for updates, but temporary access can be provided to techs on an as-needed basis.
- **Simplified power management.** Set to auto, and never touch it again — like a thermostat. Auto-start based on low battery voltage, or based on up to three temperature zones within the RV. You can also access maintenance and exercise reminders, and full-text descriptions for generator fault codes (low fuel, tripped breaker, etc.). Alerts are sent to your phone if a problem occurs, and you can view past events/fault codes as well as RV temperature, battery level, generator hours and current operation status.
- **Secure data management.** Everything is password protected to prevent unauthorized access to your data.

\*A Bluetooth connection is required to make changes to configuration, to manually start/stop the generator or to receive status notifications.

## WHAT'S IN THE BOX?

- EC-AGS+ Gateway
- Temperature Sensor
- Power Harness
- Y-Harness



## WORKS WELL WITH...

The EC-AGS+ is compatible with every Onan RV Generator in our current line, except the Onan QD 3200 (HDZAA). It is also compatible with our Commercial Mobile Quiet Gas and Quiet Diesel Generators.



For more information on the EC-AGS+ wireless control for your Onan RV generator set, reach out to your local Cummins distributor, Coach Care™ facility or Cummins authorized dealer. The EC-AGS+ wireless control is also available for order at [shop.cummins.com](http://shop.cummins.com)







## 8 | CURRENT RV GENERATOR MODEL INFORMATION

# QUIET GAS

Built to deliver quiet, reliable power for sport utility trailers, fifth-wheels and Type A, B and C RVs, the Quiet Gas models from Cummins are the most popular in RVing. Besides carbureted gasoline and LP units, electronic fuel-injected gasoline models are also available.

QG 2800i  
QG 2500i LP



QG 4000  
QG 3600 LP



QG 4000i



QG 5500  
QG 5500 LP



| GENERATOR RATINGS                                      |                       |                      |                        |                      |
|--------------------------------------------------------|-----------------------|----------------------|------------------------|----------------------|
| Hertz                                                  | 60                    | 60                   | 60                     | 60                   |
| Watts                                                  | 2,800 (2,500)         | 4,000 (3,600)        | 4,000                  | 5,500                |
| RPM                                                    | 2445–2900             | 3,600                | 2,400–2,900            | 2,400                |
| Volts                                                  | 120                   | 120                  | 120                    | 120                  |
| Amps                                                   | 23.3                  | 33.3 (30)            | 33.3                   | 45.8                 |
| Weight                                                 | 113 lbs               | 176 lbs              | 149 lbs                | 279 lbs              |
| DIMENSIONS                                             |                       |                      |                        |                      |
| LxWxH – inches                                         | 22x16.3x13.4          | 30x19.7x14.4         | 30x20.2x14             | 33.6x22.2x16.7       |
| AVERAGE FUEL CONSUMPTION                               |                       |                      |                        |                      |
| No load                                                | 0.14 Gal/h (1.2 lb/h) | 0.3 Gal/h (1.5 lb/h) | 0.15 Gal/h (0.57 lb/h) | 0.3 Gal/h (1.8 lb/h) |
| Half load                                              | 0.21 Gal/h (1.6 lb/h) | 0.5 Gal/h (2.4 lb/h) | 0.25 Gal/h (0.95 lb/h) | 0.6 Gal/h (3.3 lb/h) |
| Full load                                              | 0.46 Gal/h (2.3 lb/h) | 0.7 Gal/h (3.1 lb/h) | 0.47 Gal/h (1.79 lb/h) | 0.9 Gal/h (4.6 lb/h) |
| PERFORMANCE – 100 °F/38 °C AND 500 FT/152.4 M ALTITUDE |                       |                      |                        |                      |
| Air conditioner (BTU)                                  | One 13,500 (HE)**     | One 15,000           | One 15,000             | Two 15,000           |
| Additional watts available                             | 300 (0)               | 1,100 (700)          | 1,100 (700)            | 400 (400)            |
| Battery charger                                        | 600                   | 600                  | 600                    | 600                  |
| ENGINE DETAIL                                          |                       |                      |                        |                      |
| Number of cylinders/type                               | 1/OHC                 | 1/OHV                | 1/OHV                  | 2/V-twin             |
| Cooling system                                         | Air                   | Air                  | Air                    | Air                  |
| SOUND LEVEL – 10 FT/3 M                                |                       |                      |                        |                      |
| Half load†                                             | 65 dBA                | 68 dBA               | 66 dBA                 | 69 dBA               |

\*

Specifications are preliminary.

\*\*

HE – High-efficiency air conditioner required.

†

Actual sound level may vary based on product installation and environmental conditions.

QG 5500 EFI



QG 7000  
QG 6500 LP



QG 7000 EFI



QG 7000i DF



| QG 5500 EFI    | QG 7000<br>QG 6500 LP | QG 7000 EFI    | QG 7000i DF    |
|----------------|-----------------------|----------------|----------------|
| 60             | 60                    | 60             | 60             |
| 5,500          | 7,000 (6,500)         | 7,000          | 7,000*         |
| 2,400          | 2,880                 | 2,880          | 2,200–2,900    |
| 120            | 120                   | 120            | 120/240        |
| 45.8           | 58.3 (54.2)           | 58.3           | 29.1 / 58.3    |
| 279 lbs        | 290 lbs               | 290 lbs        | 200 lbs        |
| 33.6x22.2x16.7 | 33.6x22.2x16.7        | 33.6x22.2x16.7 | 33.6x22.2x16.7 |
| 0.3 Gal/h      | 0.4 Gal/h (2.2 lb/h)  | 0.4 Gal/h      | TBD            |
| 0.6 Gal/h      | 0.7 Gal/h (3.5 lb/h)  | 0.7 Gal/h      | TBD            |
| 0.9 Gal/h      | 1.2 Gal/h (5.3 lb/h)  | 1.1 Gal/h      | TBD            |
| Two 15,000     | Two 15,000            | Two 15,000     | TBD            |
| 400            | 1,900 (1,400)         | 1,900          | TBD            |
| 600            | 600                   | 600            | 600            |
| 2/V-twin       | 2/V-twin              | 2/V-twin       | 1/OHV          |
| Air            | Air                   | Air            | Air            |
| 69 dBA         | 70 dBA                | 70 dBA         | 70 dBA*        |

# QUIET DIESEL

So quiet and smooth, you won't believe they're diesels. Setting the standard for diesel RV generators, the Quiet Diesel Series dramatically lowers noise, vibration and harshness levels for diesel-powered RVs.

QD 3200



QD 6000



| GENERATOR RATINGS                                      |                |                |
|--------------------------------------------------------|----------------|----------------|
| Hertz                                                  | 60             | 60             |
| Watts                                                  | 3,200          | 6,000          |
| RPM                                                    | Constant       | Variable       |
| Volts                                                  | 120            | 120            |
| Amps                                                   | 26.7           | 50             |
| Weight                                                 | 205 lbs        | 420 lbs        |
| DIMENSIONS                                             |                |                |
| (LxWxH in inches)                                      | 30.2x17.3x18.0 | 36.3x23.6x22.3 |
| AVERAGE FUEL CONSUMPTION                               |                |                |
| No load                                                | 0.20 gal/h     | 0.13 gal/h     |
| Half load                                              | 0.30 gal/h     | 0.40 gal/h     |
| Full load                                              | 0.40 gal/h     | 0.70 gal/h     |
| PERFORMANCE – 100 °F/38 °C AND 500 FT/152.4 M ALTITUDE |                |                |
| Air conditioner (BTU)                                  | One 13,500     | Two 15,000     |
| Additional watts available                             | 500            | 300            |
| Battery charger                                        | 500            | 1,200          |
| ENGINE DETAIL                                          |                |                |
| Number of cylinders/type                               | 1              | 3/inline       |
| Cooling system                                         | Air            | Liquid         |
| SOUND LEVEL @ 10 FT (3 M)                              |                |                |
| Half load†                                             | 68 dBA         | 72 dBA         |

\* HE – High-efficiency air conditioner required.

\* Support for three 15,000 BTU AC on QD 8000X model version–requires application approval.

† Actual sound level may vary based on product installation and environmental conditions.

QD 8000



QD 10000



QD 12500



|                |                |                |
|----------------|----------------|----------------|
| 60             | 60             | 60             |
| 8,000          | 10,000         | 12,500         |
| Variable       | Constant       | Constant       |
| 120            | 120/240        | 120/240        |
| 66.6           | 83.3/41.7      | 104.0/52.0     |
| 420 lbs        | 765 lbs        | 770 lbs        |
| 36.3x23.6x22.3 | 41.4x24.5x27.0 | 41.4x24.5x27.0 |
| 0.13 gal/h     | 0.11 gal/h     | 0.11 gal/h     |
| 0.49 gal/h     | 0.43 gal/h     | 0.48 gal/h     |
| 1.02 gal/h     | 1.0 gal/h      | 1.20 gal/h     |
| Two 15,000*    | Three 15,000   | Three 15,000   |
| 1,800          | 2,100          | 3,800          |
| 1,200          | 1,200          | 1,200          |
| 3/inline       | 3/inline       | 3/inline       |
| Liquid         | Liquid         | Liquid         |
| 66 dBA         | 68 dBA         | 69 dBA         |

# POWER WHEN YOU NEED IT MOST

## Onan Portable Generators



POWER YOUR  
ADVENTURES

### ONAN P2500i

2,500-Watt Digital Inverter Gasoline Portable Generator  
2,200 Running Watts | 2,500 Peak Watts



#### DIGITAL INVERTER GENERATOR

Efficient, clean energy that requires little maintenance



#### PARALLEL CAPABLE

Parallels with another P2500i inverter generator



#### QUIET & DURABLE

Double-insulated



#### LIGHTWEIGHT

Easy to carry



#### KEEPS YOU CONNECTED

Low THD for clean power – perfect for sensitive electronics



#### FUEL EFFICIENT

1-gallon fuel tank that runs 10 hrs at 25% load

- Dimensions 19.75" L x 10.5" W x 18.25" H
- Dry weight 48 lbs
- Parallel capable with another P2500i inverter generator
- Two 5V USB ports for charging sensitive electronics, such as phones or tablets
- Dependable 98cc Cummins Onan OHV 4-Stroke engine
- Built-in carry handle for easy transportation
- Rubber outlet dust covers
- Rubber mat on top for storing electronic devices, such as phones, while charging
- 3-year warranty



POWER YOUR  
ADVENTURES

### ONAN P4500i

4,500-Watt Digital Inverter Gasoline Portable Generator  
3,700 Running Watts | 4,500 Peak Watts



#### DIGITAL INVERTER GENERATOR

Efficient, clean energy that requires little maintenance



#### PUSH BUTTON & REMOTE START

Pull cord backup



#### QUIET & DURABLE

Double insulated



#### PARALLEL CAPABLE

Parallels with another P4500i inverter generator



#### FUEL EFFICIENT

3.4-gallon fuel tank that runs 18 hrs at 25% load



#### LIGHTWEIGHT

At 98 pounds, and with a telescopic handle and built-in wheels, it's lighter and easier to manage

- Dimensions 24.5" L x 18.25" W x 20.5" H
- Dry weight 98 lbs
- RV- and camper-ready with 30 A TT-30R outlet
- Parallel capable with another P4500 inverter generator to reach 50 A of power
- Two 5 V USB ports for charging sensitive electronics, such as phones or tablets
- Dependable 224cc Cummins Onan OHV 4-Stroke engine
- Rubber outlet dust covers
- Telescoping handle for easy transportation
- 3-year warranty



POWER YOUR  
WORLD

## ONAN P4500IDF

4,500-Watt Dual Fuel Digital Inverter Portable Generator

**Gas:** 3,700 Running Watts | 4,500 Peak Watts

**Propane:** 3,330 Running Watts | 4,050 Peak Watts



### DIGITAL INVERTER GENERATOR

Efficient, clean energy that requires little maintenance



### PUSH BUTTON & REMOTE START

Pull cord backup



### DUAL FUEL capable

Easily switch from gas to propane with a fuel capacity of 3.4 gallons



### QUIET & DURABLE

Double-insulated



### PARALLEL CAPABLE

Parallels with another P4500 inverter generator



### LIGHTWEIGHT

107.4 pounds, telescopic handle and built-in wheels make it easy to manage

- Dimensions 25.5" L x 18.12" W x 20.5" H
- Dry weight 104.7 lbs
- RV- and camper-ready with 30 A TT-30R outlet
- Parallel capable with another P4500 inverter generator to reach 50 A of power
- Two 5 V USB ports for charging sensitive electronics such as phones or tablets
- Dependable 224cc Cummins Onan OHV 4-Stroke engine
- Rubber outlet dust covers
- Telescoping handle for easy transportation
- 3-year warranty



POWER WHEN  
YOU NEED IT MOST

## ONAN P9500DF

9,500-Watt Dual Fuel (Gas/LPG) Portable Generator

**Gas:** 7,500 Running Watts | 9,500 Peak Watts

**Propane:** 6,750 Running Watts | 8,550 Peak Watts



### PUSH BUTTON & REMOTE START

Pull cord backup



### DUAL FUEL CAPABLE

Easily switch from gas to propane with a fuel capacity of 6.6 gallons



### ESSENTIAL DATA DISPLAY

VFT Data Center displays volts, frequency, run time, maintenance reminders and lifetime hours



- Dimensions 27.25" L x 26.25" W x 26.25" H
- Dry weight 194 lbs
- Easily change fuel source from gasoline to propane
- Dependable 420cc Cummins Onan OHV 4-Stroke engine
- Fuel gauge on top of 6.6-gallon tank
- Battery charging port with charger included
- Rubber outlet dust covers
- Wheel kit included
- 3-year warranty





# YOU DESERVE A DIESEL.

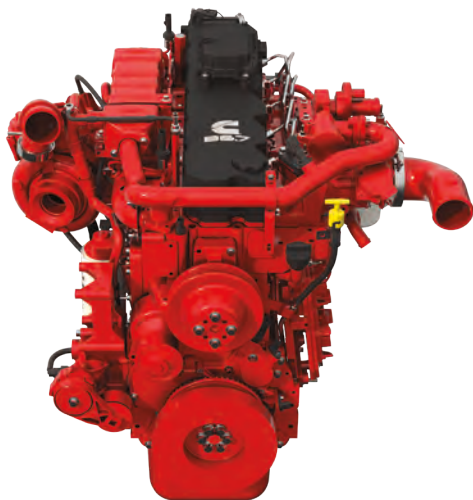
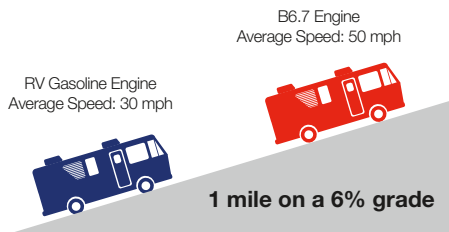
## THE CUMMINS ADVANTAGE FOR MOTORHOMES.

If you are choosing between a gasoline-powered RV and a diesel coach, there's more to consider than just the initial price. Comfort, driveability, towing capability, safety, durability, maintenance and resale value are all impacted by this decision. Owning a motorhome is about enjoying life and all that you've accomplished — you deserve a diesel!

### Torque and Driveability.

Compared with gas-powered RVs, diesel coaches:

- Deliver 50 percent more torque, for stronger uphill acceleration
- Allow you to tow boats, trailers or vehicles with confidence
- Deliver stronger performance without working as hard



### Braking and Safety.

The braking systems on diesel coaches provide drivers with greater confidence going downhill:

- Hydraulic anti-lock braking systems on gas-powered RVs don't provide the stopping power of air brakes on diesel pushers
- Most diesel coaches come with exhaust or engine brakes, for additional braking horsepower over that of normal service brakes; reduced service brake use minimizes the need for expensive brake jobs
- Reduced risk of glazing, overheating or fading increases safe control on steep downhill grades

# CUMMINS CARE



## QUALITY SERVICE, EVERY STEP OF THE WAY

Our team of experts is dedicated to providing quality support no matter what your challenge may be. Whether you have a complex issue that needs resolving or an answer to a product question, we'll be there with the knowledge and resources to make sure you're satisfied with the care you receive. The Cummins Care team perfectly complements our global service network to keep you always on.

### ON CARE.CUMMINS.COM, YOU'LL BE ABLE TO:



Access digital products and services support to get the most out of your Cummins powered equipment.



Register your Cummins generator or engine for enhanced support.



Find extensive information about our warranty philosophy, coverage and processing guidelines.



Explore digital owner's manuals and wiring diagrams for Cummins engine products, Cummins RV generators and more.

### CUMMINS CARE SERVICES



General and advanced technical support



General and advanced parts support



Online shopping and self-service capabilities



Special CARE services



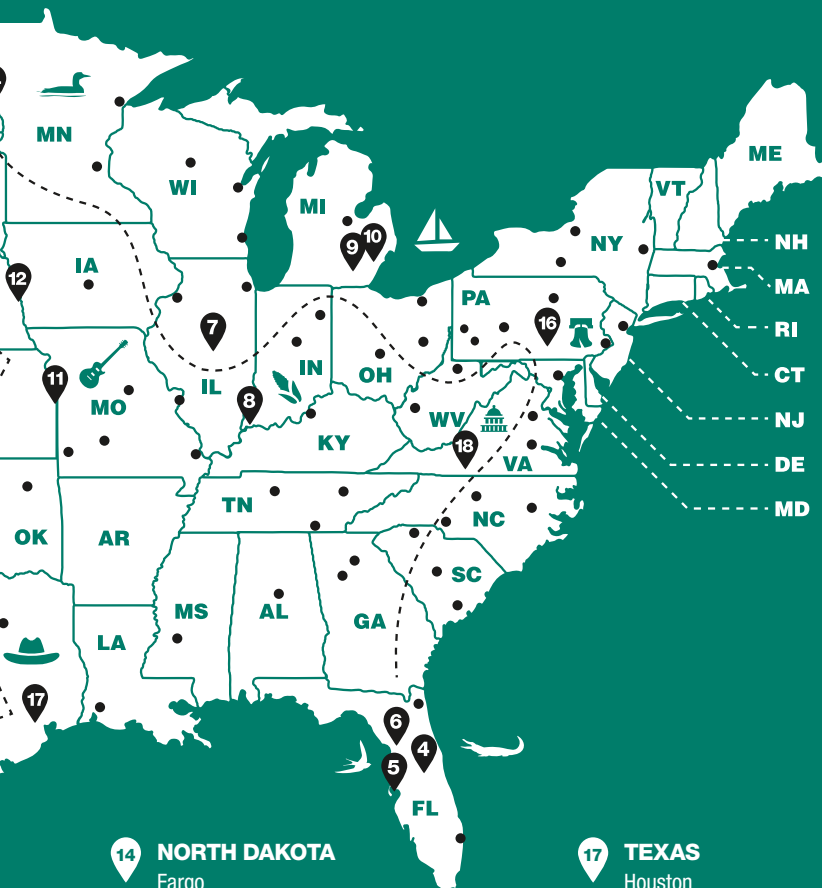


## COACH CARE™

Cummins new and improved Coach Care now offers complete chassis and major systems service to provide trusted RV service near you, with two levels of RV and motorhome service capability.

### 📍 COACH CARE COMPLETE

Factory and chassis-certified technicians servicing: all the RV and motorhome engine, generator and chassis service of Coach Care Power, PLUS major appliances + heating and cooling systems + electrical systems + plumbing systems + LP system



**14 NORTH DAKOTA**  
Fargo

**17 TEXAS**  
Houston

**15 OREGON**  
Coburg

**18 VIRGINIA**  
Cloverdale

**16 PENNSYLVANIA**  
Harrisburg

**19 WASHINGTON**  
Spokane

## ● COACH CARE POWER

Factory and chassis-certified technicians providing Cummins motorhome engine service + Cummins RV generator service + Spartan chassis + related components

Albany, NY  
Altoona, PA  
Anchorage, AK  
Arcata, CA  
Atlanta, GA  
Bakersfield, CA  
Glen Burnie, MD  
Belle Vernon, PA  
Billings, MT  
Birmingham, AL  
Bloomington, CA  
Boise, ID  
Bristol, PA  
Calgary, AB

Charleston, WV  
Charleston, SC  
Charlotte, NC  
Chattanooga, TN  
Cincinnati, OH  
Cleveland, OH  
Columbia, SC  
Columbia, MO  
Columbus, OH  
Dallas, TX  
Dedham, MA  
Des Moines, IA  
Duluth, MN  
Edmonton, AB

El Paso, TX  
Fairbanks, AK  
Fairmont, WV  
Fort Wayne, IN  
Fresno, CA  
Gainesville, GA  
Gillette, WY  
Grande Prairie, AB  
Green Bay, WI  
Greensboro, NC  
Hazard, KY  
Hodgkins / Chicago, IL  
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Indianapolis, IN

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Joplin, MO  
Kamloops, BC  
Kearny, NJ  
Kenly, NC  
Knoxville, TN  
Lake Charles, LA  
Las Vegas, NV  
Lloydminster, SK  
Louisville, KY  
Manassas, VA  
Mesa, AZ  
Milwaukee, WI

Mississauga, ON  
Nashville, TN  
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Regina, SK  
Reno, NV  
Richmond, VA  
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Sacramento, CA  
Saginaw, MI  
Salt Lake City, UT  
Saskatoon, SK

Sikeston, MO  
Spartanburg, SC  
Springfield, MO  
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Bulletin 5410860 Produced in U.S.A. Rev. 1/25  
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