Cummins Onan
RV Generator Review

Karl Wilson
Onan Business Development Manager
Agenda

- New Branding
- Load Management
- Operation
- Exercising your generator
- Maintenance
- Common Issues
- CO Detector
- Service
1. Brand architecture relationship reversed out of FMS 486.

2. Brand architecture relationship reversed out of black.

3. Brand architecture relationship in FMS 486 and black, positive image.

4. Brand architecture relationship in all black, positive image.
Literature
Where to look for help?
Cummins Onan – Internet

www.cumminsonan.com

www.funroads.com

www.cumminsonanstore.com
For more than 80 years, Cummins Onan generators have set the standard for quiet, reliable and innovative RV power. Today, Cummins Onan products comprise a complete line of the world's quietest RV gasoline, liquid propane and diesel generators and accessories—all backed by a worldwide service network dedicated to enhancing your RV lifestyle.

Learn about our Hybrid Quiet Diesel

Watch the HGQ overview video and technical video for a more comprehensive understanding of the Cummins Onan Hybrid Quiet Diesel.

How may we help you?

Learn about our:
- Diesel Generators
- Gasoline Generators
- Proprietary Generators
- High Powered Generators
- Portable Generators
- Inverter Generators
- Inverter Chargers
- Inverter Command
- Maintenance Parts
- HGQ

Selecting Your Generator:
- Choosing a Generator
- Specification Sheets
- Sales Locations

Customer Assistance:
- Service Locations
- Training Videos
- Maintenance Services
- Generator Manuals
- Warranty Information
- Frequently Asked Questions
- Identify Your Generator
- Purchase Promotional Items

Featured Product:
RV Remote Power Management at Your Fingertips

Energy Command remote power management provides worry-free control for Cummins Onan generators. Learn more about recent announcements.
### Technical Documents for Cummins Onan RV Products

Please note that we are in the process of changing the brand names of some of our Cummins Onan RV generators. The documents may not reflect the new brand name but the information is current.

#### RV Generators

<table>
<thead>
<tr>
<th>Prior Brand Name</th>
<th>Current Brand Name</th>
<th>Current Model</th>
<th>View Spec Sheet</th>
<th>View Service Diagram</th>
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<tbody>
<tr>
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<td>RV GG 6000</td>
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<td>a-1400</td>
<td>spd micro</td>
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</table>
Product Specifications Sheet
Downloaded from www.CumminsOnan.com

RV generator set
Quiet Diesel™ Series
RV QD 6000/8000

Cummins Onan
Performance you rely on.™

Features and benefits
- Computer-controlled variable speed operation maintains engine speed to load demands, reducing noise level.
- Special sound-controlling housing encloses cooling system and muffler.
- Three-point, fully isolated mounting system reduces vibrations.
- Self-diagnostic capabilities simplify troubleshooting.
- Easy, accessible maintenance points.
- Runs two $1500$ lbs air conditioners with power to spare.
- High quality, pure sine wave electrical output helps prevent damage to appliances.

Weight, size and sound level
- Weight: 400 lbs (181 kg)
- Length: 36.3 in (922 mm)
- Width: 23.5 in (597 mm)
- Height: 22.3 in (566 mm)
- Sound: 61 dB(A) Readings at 10 ft (3 m) half load
  - Meets National Park Service sound level requirements (82 459A)
  - 8000 lbs for use in national parks.
- Typical installation will further reduce sound level.

Models and ratings
- Model: QD 6000/8000
- Fuel: diesel
- Weight: 400 lbs
- Voltage: 120-30 V
- Power: 60 Hz
- Horsepower: 30 kVA
- Sound level: 61 dB(A)

Ambient conditions for rated power output with muffler and RV enclosure, per ISO 8528-1:
- Temperature: 77°F (25°C)
- Altitude: 5200 ft (1584 m) @ 99% dry

Typical power output change based on ambient conditions:
- Temperature: Power output decreases 4% for every 10°F (5°C) increase.
- Altitude: Power output decreases 3% for every 1000 ft (300 m) increase.

Important note: Actual performance may be significantly affected based on ambient and operating conditions.

Accessories
- Exhaust elbow (PIN 165-2986)
- Exhaust adapter: 7 in (PIN 155-2424), 3 in (PIN 155-2961)
- Battery: 12 V, 475 CCA at 0°F (-17.8°C) (PIN 406-0796)
- Remote wiring harness for use with remote panels: 10 ft (PIN 308-3480-05), 30 ft (PIN 308-3480-02)
- Remote control (PIN 300-4947)
- Remote control generator:
  - Switch only: (PIN 300-4942)
  - Switch and DC voltage meter: (PIN 300-4943)
  - Switch and DC voltmeter: (PIN 300-4944)

Energy command auto generator start EC-30 (PIN 018-02030)
Energy command remote start stop with diagnosis EC-20 (PIN 018-02025)
Energy command wireless start stop EC-15W (PIN 018-02026)

Notes: Protected by one or more of the following patents:

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RV Service Diagrams
www.cumminsonan.com
# RV Service Videos

www.CumminsOnan.com

## RV Videos

<table>
<thead>
<tr>
<th>Video Name</th>
<th>Video Description</th>
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<tbody>
<tr>
<td>EC30 Control Video</td>
<td>EC-30 Basic Operations Video</td>
</tr>
<tr>
<td>HQD 12500 Video</td>
<td>QD10000 - QD12500 Basic Maintenance Video</td>
</tr>
<tr>
<td>HQD 6000 Video</td>
<td>QDS000, QD7500, QD9000, HQD9/10 Basic Maintenance Video</td>
</tr>
<tr>
<td>Marquis Gold 5500 Video</td>
<td>QG5500 - QG7000 Basic Maintenance Video</td>
</tr>
<tr>
<td>MicroLite 2000 Video</td>
<td>QG2500 - QG2800 Basic Maintenance Video</td>
</tr>
</tbody>
</table>
Lifestyle and Service Advice?
www.funroads.com

Service Junction

Motorhome and Generator Service
Here's your one-stop information shop for RV service, maintenance and repair. Click a choice below to find motorhome service locations, RV appliance service or to shop for Onan parts and manuals.

- COACH CARE
  - From awnings to the main-drive engine, Coach Care RV centers nationwide are ready to repair virtually anything on your RV.
- ONAN STORE
  - Learn about Onan's full line of RV generators and shop online for parts and manuals in the official Onan online store.
- SERVICE FINDER
  - Looking for service for your motorhome appliances, accessories, drive train or other components? Use our convenient Service Finder to search for locations nationwide. Includes links to major manufacturers.

Air Conditioner "Short-Cycling"
If an air conditioner is "short-cycled" the results may be: 1) tripped air conditioner circuit breaker; 2) generator shut down on overload; or 3) tripped air conditioner thermal overload. Learn more

Generator Safety Precautions
Fundamental Safety Rules
Need Parts or a printed manual? www.cumminsonanstore.com
OBJECTIVE

- TO DETERMINE HOW TO GET THE MOST ENJOYMENT FROM YOUR GENERATOR
- HOW TO PREVENT GENERATOR FAILURE
- BASIC SERVICE TIPS
Important Safety Precautions for Your Generator

- Do not operate the generator with a faulty exhaust system
- If your RV bottoms out, inspect the generator exhaust system for damage
- Always disable auto start systems while refueling, servicing and storing
- Never sleep with generator running unless you have a carbon monoxide detector that is working properly
- Don’t store anything in the generator compartment
- Perform all service and maintenance work with the generator engine off and the positive battery cable disconnected
- Listen for changes in sound, noise or vibration from your generator and investigate WHY!
#1 Issue
Load Management

“Keeping the breaker from flipping”
Load Management

- Load Management is the systematic process of assuring your generator can supply the power (kW) needed to power your electrical needs.

- Two things make the lights go out:
  - 1) Overloading the generator
  - 2) Overloading the circuit breaker(s)

- What you need to know:
  1) Determine the ‘rating’ of your generator
  2) Determine the total loads in your coach
  3) Account for hidden loads
  4) Understand your operating environment

- Even though the breaker trips, (lights go out) the generator keeps running in many situations.
Determine the rating of your generator

- Look at the amps nameplate on your generator
Determine the rating of your system

- Every generator has circuit breakers that may limit the current below the nameplate rating
  - 8QD is rated for 66.3 amps continuous
    - Has two 30amp circuits (Double pole single throw)
    - Capacity of any circuit is 30amps

- Every coach has a breaker panel inside as well which breaks each circuit from the generator into smaller (fewer amp) circuits

- Before resetting any circuit breaker turn off and reduce loads.
- Generator will continue to run even if circuit breakers blow.
- Generator will usually only shut down on dead short, or if operating conditions have reduced output ‘capacity’.
  - Look for fault code
Determining Your Load Capability

- Estimate the total watts of electrical products that are typically in use at the same time. For example:
  - Air conditioner: 1920 watts, 120V x 16A
  - Battery charger: 2520 watts, 120V x 21A
  - Blender: 600 watts, 120V x 5A
  - Total: 5040 watts

This number should not exceed the output of the generator.

Conversion formula: watts = volts x amps
### Determining The Load in your Coach

This is in your handbook

<table>
<thead>
<tr>
<th>Appliance</th>
<th>Average Required Wattage</th>
<th>Approximate Amps</th>
<th>Appliance</th>
<th>Average Required Wattage</th>
<th>Approximate Amps</th>
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<tbody>
<tr>
<td>Air conditioner</td>
<td>1400-2400</td>
<td>9-20</td>
<td>Electric: (cont’d)</td>
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<tr>
<td>Battery charger*</td>
<td>Up to 3000</td>
<td>6-28</td>
<td>Frying pan/wok</td>
<td>1000-1350</td>
<td>8-11</td>
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<tr>
<td>Blender</td>
<td>600</td>
<td>5.5</td>
<td>Stove (per element)</td>
<td>350-1000</td>
<td>3-8</td>
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<tr>
<td>Broiler</td>
<td>1350</td>
<td>12</td>
<td>Water heater</td>
<td>1000-1500</td>
<td>8-13</td>
</tr>
<tr>
<td>Coffee maker</td>
<td>550-1000</td>
<td>4-8</td>
<td>Water pump</td>
<td>500-600</td>
<td>4-5</td>
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<tr>
<td>Compact disc player &amp; speaker</td>
<td>50-100</td>
<td>0.5-0.9</td>
<td>Hair dryer</td>
<td>350-1500</td>
<td>3-13</td>
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<tr>
<td>Electric:</td>
<td></td>
<td></td>
<td>Iron</td>
<td>500-1200</td>
<td>4-10</td>
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<tr>
<td>Blanket</td>
<td>50-200</td>
<td>0.5-1.5</td>
<td>Light bulbs</td>
<td>40-100 ea.</td>
<td>0.36-0.9</td>
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<td>Broom/vacuum</td>
<td>200-500</td>
<td>1.5-4</td>
<td>Microwave</td>
<td>700-1500</td>
<td>6-13</td>
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<td>Drill</td>
<td>250-750</td>
<td>2-6</td>
<td>Radio</td>
<td>50-200</td>
<td>0.5-1.5</td>
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<td>Fan</td>
<td>25-100</td>
<td>0.2-0.9</td>
<td>Refrigerator</td>
<td>400-1000</td>
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<td>Sewing machine</td>
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<td>Space heater</td>
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<td>200-600</td>
<td>1.5-4</td>
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<td>Toaster</td>
<td>750-1200</td>
<td>6.5-10</td>
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<td></td>
<td>Washer/dryer</td>
<td>2000-2250</td>
<td>16</td>
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<td></td>
<td></td>
<td>VCR</td>
<td>150-200</td>
<td>1.15</td>
</tr>
</tbody>
</table>

Conversion formula: \( \text{watts} = \text{volts} \times \text{amps} \)
Things that effect the available power

- **Altitude**
  - Altitude derates 3.5% for every 1000 ft
    - Approximately 16% in Denver
    - Altitude adjustment on Gasoline sets
    - Don’t change any other settings

- **Temperature**
  - Temperature derate 1% for every 10 deg F over 77 F.

- **Nameplate rating is set at sea level and up to 125 F. air inlet temperature**
  - Most will do better than rating

- **Hidden Loads**
  - Motor Starting (Air Conditioner) = 3-4 x Running Watts
  - Battery Charging = “Invisible Load” (Page 6)
    - 100 Amps DC = 2520 watts AC = 21 Amps = 11,000 AC plus a microwave.
Load Management

- Either manually or automatically
  - You are usually the load manager - Manual
  - Some coaches have load management built in
    • Turns loads on and off based on total watts used

- Do not forget the hidden loads
  - Battery Chargers can pull up to 28 amps
    • Turn charge rate down when more power is needed for coach living comforts
    • All modern three stage battery chargers go to Bulk charge when first turned on – **Very high amps**.
  - Water Heaters
Manage your Loads

- Overloading a genset will cause,
  - Circuit Breaker tripping
  - Overheating
  - Low Voltage
  - High oil consumption
  - Decreased genset life
Transfer Switch

- Transfer switch prevents shore power and generator power from ‘mixing’

- Either Manual or automatic
  - Most newer coaches are automatic
  - If you have to plug your shore power cord into a box, this is a manual system, common on some Class C and Towables

- It is perfectly fine to start genset while plugged in

- Shore Power is usually primary power
  - Depends some on Coach Manufacturer

- If generator is running, breakers are on, but no power in the coach, you likely have Transfer Switch issue
Auto Start Systems

- AGS – Auto Generator Start
- Charge batteries at pre-determined state of discharge
  - How Long to Charge (P. 7) varies with:
    - Allowed Discharge Point
    - Capacity in Amp/hrs
    - Quiet time settings
    - Battery Condition
    - Charge Rate
    - Quit Charge Setting

- Air Conditioning Demand
- Make sure unit is in Auto before leaving
  - All units have safety input and time out functions
Disable Auto Start

- Disable for Servicing of Generator or any part of the electrical system
- When re-fueling
- Motorhome is out of use
Starting and Stopping Procedures

- **Before Starting**, good practice to turn off air conditioners and large electrical loads especially in cold weather
  - Note: Most transfer switches take care of this
- **Prime** by holding Stop (All Quiet Diesels, MicroQuiets, and Marquis Golds)
- **To Start** – Press and hold Start at the Control Panel or at the Set
  - Quiet Diesel: Auto pre-heat flash, then crank/start
  - Don’t Over-Crank with no start…. 20 seconds/then 2 minutes wait
- **Let the Generator** warm up before applying loads
- **To Stop** – Press Stop (Do not need to hold down)
  - Good practice to remove loads and let generator run for 3-5 minutes before stopping.
Preventing OVER 70% of Service Issue
Exercising your Generator

- Minimum of 2 hours every month @ 50% load
  - Up to full rated load if practical
    - Use space heaters to apply loads (1500W each)
    - BE SAFE
- Why is this necessary?
  - Lubrication and expel moisture
  - Helps avoid fuel varnishing in the carburetor
  - Uses full range of generator system
- Run AC while traveling
- What if I don’t?
  - Increased service issues
  - Poor performance
  - Not starting
  - Inability to run loads in coach
  - Upset spouse (because I told you to)
ROUTINE MAINTENANCE

- Refer to your Operators Manual or P. 15 in Handbook
- Oil Change:
  - MicroLite/MicroQuiet & Camp Power
    • First time = 20 hours and then every 150 hours or once a year.
  - Marquis Gold
    • First time = 50 hours and then every 150 hours or once a year.
  - Quiet Diesel
    • First time = 50 hours and then every 150-250 hours depending on model or once a year
- Air / Fuel Filters: 450-500 hours
- Coolant: 50/50 blend every 2 years
- Spark Plugs: every 500 hours
MAINTENANCE INTERVALS ARE ONLY GUIDELINES

- Maintenance intervals may need to be shortened if:
  - You are operating in high ambient temps
  - You are operating at extended high loads
  - You are operating in a dusty environment
  - You level your motorhome, and bring the genset closer to the ground

- Bring Spare filters
  - They can spoil a trip
    - Oil, Air, Fuel, and fan belt
MAINTENANCE INTERVALS ARE ONLY GUIDELINES

Air Cleaner Caused shut down at 50 hours of use.
Generator Models

Onan 4.0 Microquiet

Onan Marquis Gold
Onan 5.5 Quiet Diesel

Onan 7.5/8.0 Quiet Diesel
Onan 10 & 12 Quiet Diesel
MicroQuiet™

- Air Cleaner Cover
- Remote Control Connection (Inside)
- Altitude Adjust Knob
- Control Panel
- Oil Fill Cap & Dipstick
- Spark Plug (Not Visible)
- Muffler (Inside)
- Maintenance Access Cover
- Fuel Inlet & Fuel Filter
- AC Output Leads
- B+ Connection (Inside)
- B- Connection
- Oil Drain Plug (Bottom Access)
Quiet Diesel™ 5500

- AC TERMINAL BOX COVER
- LIFTING EYE ACCESS COVER
- COOLANT PRESSURE CAP ACCESS
- LINE CIRCUIT BREAKER
- CONTROL SWITCH
- OIL FILL
- ACCESS TO AIR FILTER
- WARM AIR DISCHARGE
- BATTERY CONNECTIONS
- FUEL CONNECTIONS
- ACCESS DOOR FOR OIL AND FUEL FILTERS & OIL DRAIN
- EXHAUST TAILPIPE FLANGE (NOT VISIBLE)

COOLING AIR INLET GRILLE
Quiet Diesel™ 10000/12500

- AC OUTPUT TERMINAL COVER
- OPERATOR’S CONSOLE
- COOLANT DRAIN
- ACCESS TO OIL FILTER, DIPSTICK & FILL CAP, AIR FILTER & FUEL FILTER
- SERVICE ACCESS
- EXHAUST CONNECTIONS
- BATTERY CONNECTIONS
- FUEL CONNECTIONS
Oil

- Reference Page 24 in Handbook for correct Ratings and Viscosity Grades
- Check level daily or every 8 hours of operating time
- Synthetic oil
  - Okay on Cummins Onan generators after initial break-in but do not extend the published oil change intervals

- Fill level
  - KV/KVD/KVC = Do not screw in the Dipstick
  - Balance = Screw in the Dipstick
## Oil Capacities – Gas & LP

<table>
<thead>
<tr>
<th>Model</th>
<th>Quarts</th>
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<tbody>
<tr>
<td>KV/KVD - MicroLite</td>
<td>1</td>
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<tr>
<td>KY/KYD - MircoQuiet</td>
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<tr>
<td>HGJAB – Marquis Gold</td>
<td>2</td>
</tr>
<tr>
<td>HGJAA – Marquis Platinum</td>
<td>2</td>
</tr>
<tr>
<td>HGJAC – Emerald Advantage</td>
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<tr>
<td>BGE - Emerald</td>
<td>3.5</td>
</tr>
<tr>
<td>BGM - Marquis</td>
<td>3.5</td>
</tr>
<tr>
<td>NHE - Emerald</td>
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<tr>
<td>NHM - Marquis</td>
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## Oil Capacities – Diesel

<table>
<thead>
<tr>
<th>Model</th>
<th>Quarts</th>
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</thead>
<tbody>
<tr>
<td>HDKBA - 5500 Quiet Diesel</td>
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</tr>
<tr>
<td>HDKAH\JK – 6000\7500\8000 Quiet Diesel</td>
<td>3</td>
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<tr>
<td>HDKCA\B – 10,000\12,500 Quiet Diesel</td>
<td>5.9</td>
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<tr>
<td>HDCAA\B - 10,000\12,500 Quiet Diesel</td>
<td>6.7</td>
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<tr>
<td>HDKAG</td>
<td>5</td>
</tr>
<tr>
<td>DKC</td>
<td>4</td>
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<tr>
<td>DKD</td>
<td>4</td>
</tr>
<tr>
<td>DKG</td>
<td>5</td>
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</tbody>
</table>
Fuel

- Reference Page 23 in Handbook
- Gasoline
  - No more than 10% ethanol
  - Not more than 5% methanol
  - E-85 is not approved!
- Stabilizers
  - OnaFresh
- LP
  - Clean HD-5 grade liquid propane gas in a mixture of at least 90% propane
    - Vapor
    - Liquid Withdrawn
- Diesel
  - ASTM-2-D or ASTM -1 D < 32F with min Cetane of 45
  - Bio-diesel up to 5%
  - Low Sulfur Diesel is OK for all QD product
Coolant

- Recommend 50/50 mix of ethylene glycol coolant
- Kubota does not recommend propylene glycol coolant – Heat Rejection
- Kubota does not recommend use any rust inhibitor or additives
- Replace the coolant every two years.
- Clean soft water
## Coolant Capacities

<table>
<thead>
<tr>
<th>Model</th>
<th>Quarts</th>
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<td>HDKBA - 5500 Quiet Diesel</td>
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<tr>
<td>HDKAH\J\K – 6000\7500\8000 Quiet Diesel</td>
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<tr>
<td>HDKCA\B – 10,000\12,500 Quiet Diesel</td>
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<td>HDCAA\B - 10,000\12,500 Quiet Diesel</td>
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<td>HDKAG</td>
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<tr>
<td>DKD</td>
<td>4</td>
</tr>
<tr>
<td>DKG</td>
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</tbody>
</table>
Lubrication

- Only where the manual indicates
- Oil attracts dirt
- Do not lubricate the grommets on the Marquis Gold door
Exhaust Extension Systems

- Onan does not recommend any modifications to the exhaust system.
- Potential issues with Vertical Extensions:
  - Damage to generator exhaust system
  - Excessive back pressure
  - Safety if roof vents are open
- Improper installation can create a safety hazard.
- Tailpipe / Exhaust should have no load placed on pipe, and must be free to ‘shake’
CO Detectors

- Take them seriously
- Make sure they work
  - Some have expiration dates
- One can have a CO issue even if your engine or generator isn’t running
- Reference Page 12 in Handbook for this and other safety precautions
Cooling

- All Cummins Onan generators require fresh cool air to run.
- The area under and around the genset should be left clean and unobstructed.
- Do not dig a hole to level the coach.
FAQ

- Pages 56-62 in Handbook
- Does my generator charge my batteries?
  - Not directly
- Why does my generator stop at ~1/4 tank of fuel?
Common Concerns

- Replacement Manuals?
  - www.cumminsonan.com
    - Download operators and parts (Adobe .pdf)
  - www.funroads.com - purchase hard copy

- Owner’s Handbook
  - www.cumminsonan.com
  - Local Onan Dealer or Distributor

- Replacement – Service Parts
  - Dealer/Distributor directory
  - www.funroads.com – Green Label Parts
In Need of Service?

- Maintenance parts on Handbook pages 30-33
- Nameplate Information

Model/Spec/Serial Number (Example: 4KYFA26100K / D020356577)
QD Nameplate
**Model Number**

- **Model Number**: 4KYFA26100K
  - 4 – kW Rated Output
  - KY – Model Designation
  - FA – Fuel / Engine Type
  - 26100 – Model Number
  - K – Spec Letter

- **Serial Number**: D020356577
  - D – Month of Factory build (A= January)
  - 02 – Year of Factory build (02 = 2002)
  - 0 – Plant Code (0 = Minneapolis, MN.)
  - 356577 – Six Digit Sequential Serial number
In Need of Service?

- Where to Find It
  - Dealer Directory
  - Call: 1-800-888-ONAN (1-800-888-6626)
  - On Line: funroads.com, cumminsonan.com,

- Give fault code to service location
Common Service Issues

▪ Most Common
  – Engine Oil Level
  – Battery Connections - Clean & Tight
  – Watching the Fuel Gauge
  – Not Overloading the Generator
  – Gasoline storage/stabilization
▪ LP → Mud Doppers in the LP Regulator vent line.
▪ High pitch or rattling on 7500/8000 Quiet Diesel → Loose air cleaner cover.
▪ Broken flex coupling/exhaust elbows due to improper exhaust components
Reading Fault Codes: MicroQuiet

- Reference Operators Manual
- Read at Start/Stop Indicator Light
- Three Blinks = Service Fault
  - Press STOP once to see secondary code
  - Two digit code 1,2,3, or 4 blinks, a brief pause and then 1-9 blinks
- Four Blinks = Exceeded Crank Time
- Restoring Fault Code Blinking by pressing STOP 3 times within 5 seconds. Last fault will be displayed even if the condition that caused the shutdown has been corrected.
Reading Fault Codes: Marquis Gold

- Reference Operators Manual
- Read at Start/Stop Indicator Light
- Two Blinks = shut down on low oil pressure
- Three Blinks = Service Fault
  - Press STOP once to see secondary code
  - Two digit code 1, 2, 3, 4 or 5 blinks, a brief pause and then 1-9 blinks
- Four Blinks = Exceeded Crank Time
- Restoring Fault Code Blinking by pressing STOP 3 times within 5 seconds. Last fault will be displayed even if the condition that caused the shutdown has been corrected.
Reading Fault Codes: Quiet Diesel

- Reference Operators Manual
- Read at Start/Stop Indicator Light
- One Blink = Shut down due to High Temperature
- Two Blinks = Shut down on low oil pressure
- Three Blinks = Service Fault
  - Press STOP once to see secondary code
  - Two digit code 1,2,3, or 4 blinks, a brief pause and then 1-9 blinks
- Restoring Fault Code Blinking by pressing STOP 3 times within 5 seconds. Last fault will be displayed even if the condition that caused the shutdown has been corrected.
Onan Warranty

- Warranty Start Date
  - The day the set was purchased by its original owner.
- 3 Years or 2,000 hours
- 90 Days Adjustments
- Available 5 Year Warranty
- What is not covered?
  - Problems caused by improper maintenance or misuse of the generator even if they occur during the warranty period. Example: Carburetor varnishing.
Summary

- Load Management
- Operation
- Exercising your generator
- Maintenance
- Common Issues
- CO Detector
- Service
Frequently Asked Questions
Common Questions

- Why does my 7.5 QD only have one 30amp breaker?
  - Why does it keep blowing?

- Should I exercise my generator?

- What is my maintenance interval?

- Is it O.K. to use synthetic oil?
Generator Operation -

- Q: Once the generator is started, should it continue to run for a certain length of time?

- A: Ideally, Onan Gensets should run for a minimum of 30 minutes to give them a chance to warm up. Once warmed up, running your generator for five-minute intervals should be fine. Remember to turn on some appliances so the generator works while it’s running. Running it for more than 30 minutes at no load only burns fuel unnecessarily and adds costly maintenance.
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 you economize on your vehicle fuel because the generator uses less fuel. 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 I run an RV generator in a National Park?

A: Onan MicroLite™ and Quiet Diesel™ Gensets, uninstalled, are quieter than National Park sound level requirements. (Most parks have quiet time between the hours of 10PM and 7AM.) When installed, Marquis models are also quieter than park standards. Laboratory tests show they measure well below the park standard of 60 dB(A) at 50 ft. For comparison, normal room conversation is typically 62 dB(A).
YOUR QUESTIONS?
Thank You