

**Operations Manual**

**&**

**Reference Guide**

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| --- |
| **Disclaimer**  **This document is published for informational purposes only. Green APU, LLC makes no representations or warranties, express or implied, with respect to the information, recommendations and descriptions contained in this manual and such information, recommendations and descriptions should not be regarded as all-inclusive or covering all contingencies. In the event you have any questions or require further information, please contact your local Green APU Technical Support at 877-751-0606, Option 3.**  **The procedures described herein should only be undertaken by suitably qualified personnel. Failure to implement these procedures correctly may cause damage to the Green APU unit or other property or personal injury.**  **Green APU, LLC and its affiliates shall have no liability in contract or tort (including negligence and/or strict liability) or otherwise, to any person or entity for any personal injury, property damage or any other direct, indirect, special or consequential damage or liability whatsoever, arising out of or resulting from any actions by any person that are contrary to this manual or any of the information, recommendations or descriptions contained herein.** |

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**Always ensure unit is completely off and disconnected from power prior to servicing.**

**IMPORTANT**

Your GREEN APU includes

**LIFETIME**

24/7 Technical Support

If you experience any issues with the performance of your APU,

Please Call

**877-751-0686**

**Option 3**

It is important to call Technical Support **WHILE** the issue is occurring.

This ensures the timeliest resolution and the most effective troubleshooting.

**WEIGHT EXEMPTION CERTIFICATION**

|  |
| --- |
| A picture containing drawing, clock  Description automatically generated  **July 1, 2012, Vehicle Weight Exemption Certification**  Green APU LLC certified as follow:  Auxiliary power unit GREEN APU installed weighs is 530 pounds.  Section 127(a) was amended to add item 12 that States the following:  **(12) HEAVY DUTY VEHICLES-**  (A) IN GENERAL- Subject to subparagraphs (B) and (C), in order to promote reduction of fuel use and  emissions because of engine idling, the maximum gross vehicle weight limit and the axle weight limit  for any heavy-duty vehicle equipped with an idle reduction technology shall be increased by a quantity  necessary to compensate for the additional weight of the idle reduction system.  (B) MAXIMUM WEIGHT INCREASE- The weight increase under subparagraph (A) shall be not greater  than 400 pounds.  (C) PROOF- On request by a regulatory agency or law enforcement agency, the vehicle operator shall  provide proof (through demonstration or certification) that--  (i) the idle reduction technology is fully functional at all times; and  (ii) the 400-pound gross weight increase is not used for any purpose other than the use of idle  reduction technology described in subparagraph (A).  **Update:**  On June 6, 2012 President Barack Obama signed the Federal Highway Bill. As part of the bill the  following updates were made in reference to idle reduction technologies to include APU’s.  SEC. 1510. IDLE REDUCTION TECHNOLOGY.  Section 127(a)(12) of title 23, United States Code, is amended—  (1) in subparagraph (B), by striking ‘‘400’’ and inserting ‘‘550’’; and  (2) in subparagraph (C)(ii), by striking ‘‘400-pound’’ and inserting ‘‘550-pound’’.  As a result of these changes the new federal weight exemption has been increased from 400 pounds  to 550 pounds for an APU.  Best Regards,  Irek Panek  Direct 630 465 2602  Product Developer |

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**SYSTEM OVERVIEW**

Your Green APU performs two primary functions:

CLIMATE CONTROL

Climate control mode maintains in cab comfort.

The unit will alternate

between AC and heat in

accordance to the set temperature.

BATTERY MONITORING /

ENGINE PREHEAT

For use when parking the truck unattended

for any extended length of time.

System will turn on unit when:

**Battery Voltage** drops below **12.6 volts**

Or

**Coolant Temp** drops below **32 degrees**

**IMPORTANT:**

Battery Monitoring must be

**MANUALLY ACTIVATED**

each time you wish to use it.

**CONTROLLER NAVIGATION**

Your Green APU was designed with simplicity and ease of use in mind.

A single knob controls provides access to all features by rotating and clicking.

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**CLIMATE CONTROL**

Heat, AC, and Cab Power

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**For optimal performance, the recommend fan speed is**

**AUTO**

**BATTERY MONITORING   
ENGINE PREHEAT**

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**IMPORTANT:**

Battery Monitoring must be

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each time you wish to use it.

**MAINTENANCE**

Each Green APU requires PM Service every **1000 Hours** **(Star Edition)**

- Or --

**600 Hours (all previous generations)**

PM Service consists of:

* Oil Change (10w-30 or 15w-40)
* Oil, Fuel and Air Filter Replacement
* Belt Inspection / Replacement
* Cabin Filter Cleaning
* Overall Inspection

Belts should be replaced at the first sign

of wear or every other PM Service

The cabin filter is located within the cab under the bed.

A **notification message will display** upon startup

when your unit is approaching the PM Service.

The unit **may no longer start** once the

PM Hour Limit has been reached.

**MAINTENANCE**

Basic Maintenance Parts List

**KUBOTA** Units   
(S/N’s beginning in KB and KS)

|  |  |
| --- | --- |
| **FILTERS** | **BELTS** |
| Oil: WIX 51344  Fuel: WIX 33390  Air: WIX 49913  **Oil Capacity**  4.25 Quarts | STAR Edition (Serpentine)  K60625  K60625HD (preferred)  Dual Belts  Compressor Alternator  Bando Continental  6PK775 15371 |

**PERKINS** and **CAT** Units

|  |  |
| --- | --- |
| **FILTERS** | **BELTS** |
| Oil: WIX 163  Fuel: WIX 33262  Air: K&N RU-0160  **Oil Capacity**  2.8 Quarts | Compressor:  Bando 6PK775  Alternator  Bando RPF2310 |

**Always ensure unit is completely off and disconnected from power prior to servicing.**

**Viewing Service Hours**

To View your current service hours, select

*Maintenance > Service Hours*

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**Resetting Service Hours**

Once Service is complete you must reset the oil timer.

To reset the oil timer, select

*Maintenance > Reset Oil Timer*

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A pin may be required to complete the reset.

|  |  |
| --- | --- |
| The pin can be obtained from the owner and can be optionally recorded here: \_\_\_\_\_\_\_\_\_\_\_\_ | Once the code is entered, navigate to “Reset Oil Timer”. Click to reset hours. |

The Oil Timer will now be reset to zero.

This can be confirmed by viewing the service hours

as described above.

**SERVICE**

Green APU’s

Factory Repair Shop is located at:

13067 Main Street

Lemont, IL 60439

**HOURS OF OPERATION**

|  |  |
| --- | --- |
| Monday – Friday  8AM – 6 PM | Saturday  8AM – 12PM  Appointment Only |

The Factory Repair Shop can be reached at

**877-751-0686**

**Option 4**

A map of Green APU Distributors and

Affiliated Service Locations can be found online at:

**greenapu.com/locations**

**PARTS**

Detailed Parts Listing

All Green APU Models

|  |  |  |  |
| --- | --- | --- | --- |
| **PART** | **KUBOTA** | **PERKINS/CAT** | **YANMAR** |
| **OIL FILTER** | **WIX 51344** | **WIX 163** | **WIX 51358** |
| **FUEL FILTER** | **WIX 33390** | **WIX 33262** | **WIX 33390** |
| **AIR FILTER** | **WIX 49913 /  MANN C1140** | **K&N RU-0160** | **WIX 49913 /  MANN C1141** |
| **SERPENTINE BELT**  **(STAR EDITION)** | **K60625**  **K60625HD (preferred)** |  |  |
| **COMPRESSOR BELT** | **Bando 6PK775** | **Bando 6PK775** | **Bando 6PK775** |
| **ALTERNATOR BELT** | **Continental 15371** | **Bando RPF2310** | **Bando RPF3360** |
| **COMPRESSOR** | **Sanden 4711 SD7H15** | **Sanden 4711 SD7H15** | **Sanden 4711 SD7H15** |
| **DRYER** | **74R2546** | **74R2546** | **74R2546** |
| **CONDENSER** | **4730TY** | **4730TY** | **4730TY** |
| **CONDENSER FAN** | **30101510 SPAL** | **30101510 SPAL** | **30101510 SPAL** |
| **REAR SEAL** | **1G460-04460** | **198636080** | **119734-02220** |
| **FRONT SEAL** | **1J094-04140** | **198636090** | **119717-01800** |
| **GLOW PLUGS** | **1G679-65512** | **NGK YE01** | **119717-77801** |
| **OIL P SENSOR** | **15841-39013** | **U85246210** | **114250-39450** |
| **OH SWITCH** | **51601-37670** | **385720500** | **121250-44901** |
| **TEMP SENSOR** | **39220-21330** | **39220-21330** | **39220-21330** |
| **FUSE BOX TERMINAL** | **12176388** | **12176388** | **12176388** |
| **SMALL RELAY** | **303-1AH-C-R1-U1** | **303-1AH-C-R1-U1** | **303-1AH-C-R1-U1** |
| **BIG RELAY** | **PC785-1A-12S-R-X** | **PC785-1A-12S-R-X** | **PC785-1A-12S-R-X** |
| **EXPANSION VALVE** | **71R8321** | **71R8321(Big) 71R8300(Small)** | **71R8321** |
| **ACTUATOR MOTOR** | **RD-5-12450-1** | **RD-5-12450-1** | **RD-5-12450-1** |
| **BINARY SWITCH(AC)** | **71R7075** | **71R7075** | **71R7075** |

To Order Parts

Call Green APU’s Parts Line at:

**877-751-0686**

**Option 2**

**ADDITIONAL INFO**

**COOLANT**

Your Green APU is connected to your trucks coolant system.

This allows the APU to perform its engine preheat functions.

**Avoid Excessive Heat Transfer Upon Startup**

Today’s modern trucks often run at high operating temperatures, particularly in extreme environments.

It is recommended that you allow your truck to idle for at least 5 mins before shutting down while initially using your APU. This will allow the system to cool and prevent excessive heat transfer to the APU.

**Utilize Shut-Off Valves If Necessary**

As your truck and APU coolant systems are connected, a coolant leak in the APU has the potential to drain coolant from the trucks main engine.

Green APU installations preformed after June 2019 are equipped with manual shut-off valves. In the event of a coolant leak within your APU system, closing both valves will allow the truck to operate without losing coolant from the APU. These valves are located near the passenger side firewall near the engine.

**Note:** It is important to not run your APU with the shut of valves in the closed position. This will cause the APU to overheat and shut down.

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**877-751-0686**Option 1

**Unit Sales**

Option 2

**Parts Line**

Option 3

**24/7 Tech Support**

Option 4

**Service & Installation**

|  |  |
| --- | --- |
|  |  |

**Connect With Us**



**greenapu.com**