



GREEN APU

AUXILIARY POWER UNIT



Operations Manual & Reference Guide

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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.



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.



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 **33 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.



Rotate knob to choose menu item.

Push knob to select item.

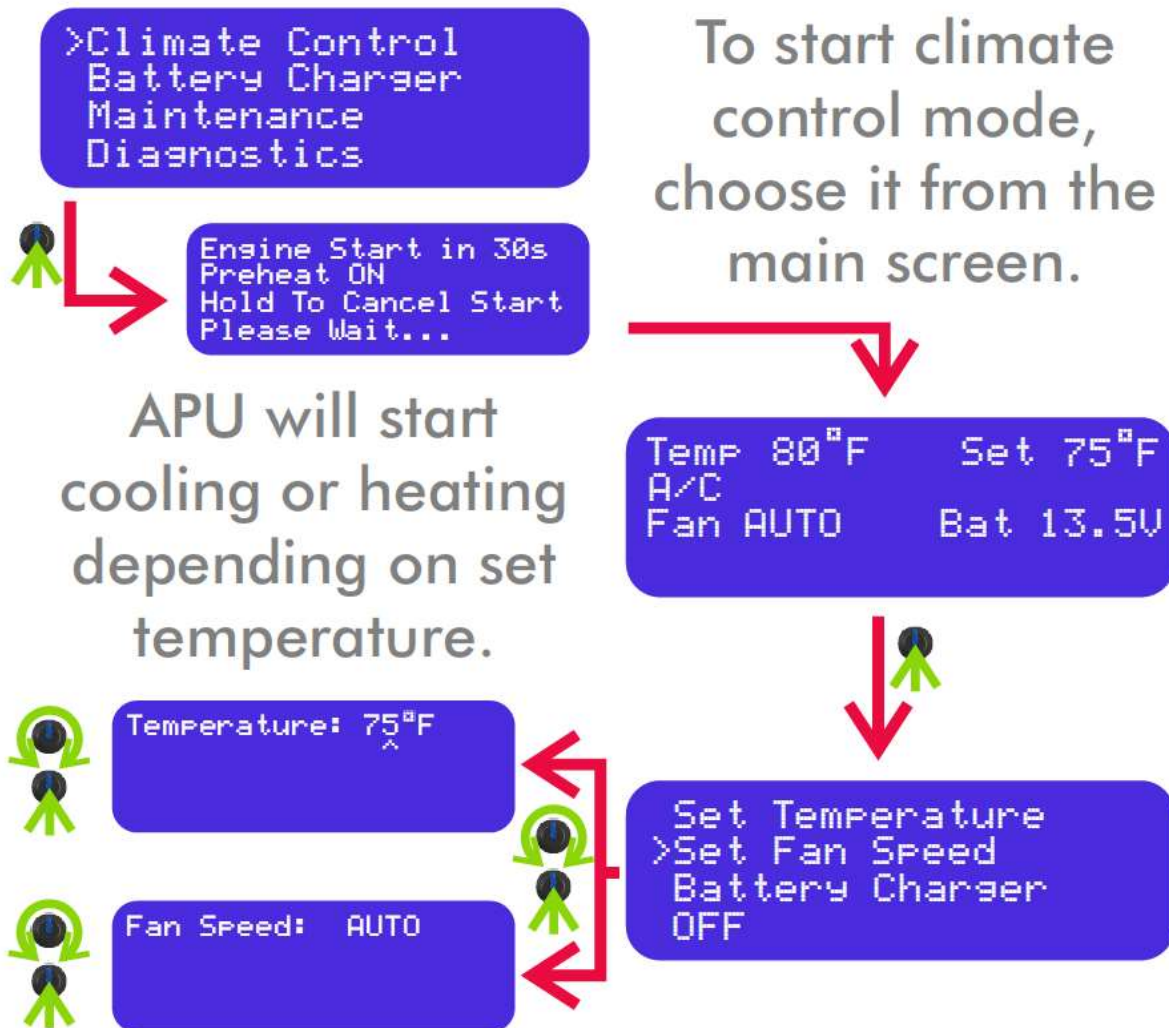
>Climate Control
Battery Charger
Maintenance
Diagnostics



Keep scrolling for additional menu options.

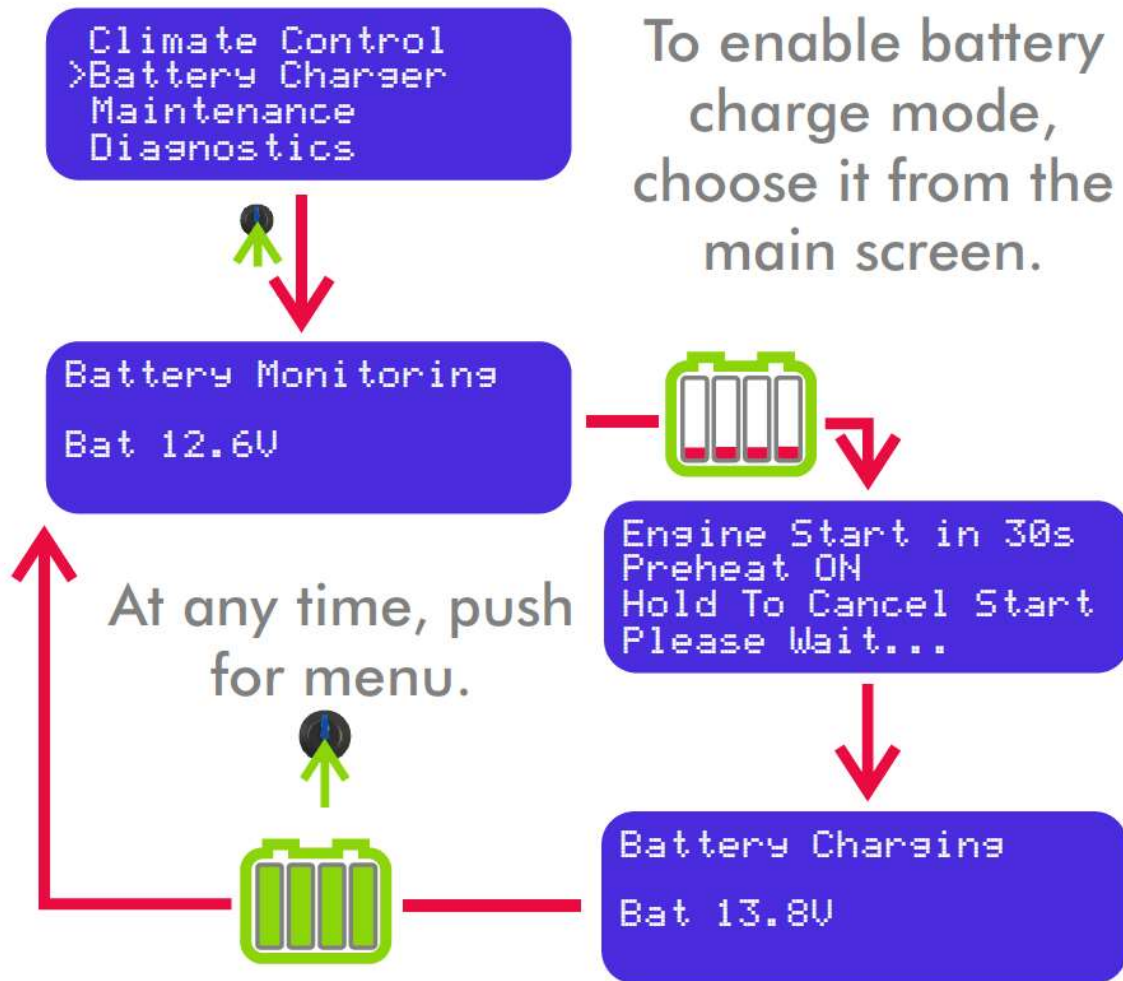
CLIMATE CONTROL

Heat, AC, and Cab Power



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

BATTERY MONITORING / ENGINE PREHEAT



IMPORTANT:

Battery Monitoring must be
MANUALLY ACTIVATED
each time you wish to use it.

MAINTENANCE

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

Prior Versions require service every **600 Hours**.

PM Service consists of:

- Oil Change (15w 40)
- Oil, Fuel and Air Filter Replacement
 - Belt Inspection / Replacement
- Cabin Filter Cleaning / Replacement

Belts should be replaced at the first sign of wear or every other PM Service (1200 Hours)

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

A **notification message will display** a upon startup when your unit is **within 50 hours** of its required Service.

The unit will no longer start once the 600-hour limit has been reached.

If necessary, additional hours can be obtained by calling Technical Support at:

877-751-0686

Option 3

MAINTENANCE

Basic Maintenance Parts List

KUBOTA Units

(S/N's beginning in KB and KS)

FILTERS

Oil (Standard): WIX 51357

Oil (Oversized): WIX 51344

Fuel: WIX 33390

Air: WIX 49913

BELTS

STAR Edition (KS):

(Serpentine)

Gates 60625

Dual Belts (KB):

Compressor:

Bando

6PK775

Alternator:

Continental

15371

Perkins and Cat Units

FILTERS

Oil: WIX 163

Fuel: WIX 33262

Air: K&N RU-0160

BELTS

Compressor:

Bando 6PK775

Alternator

Bando RPF2310

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

Viewing Service Hours

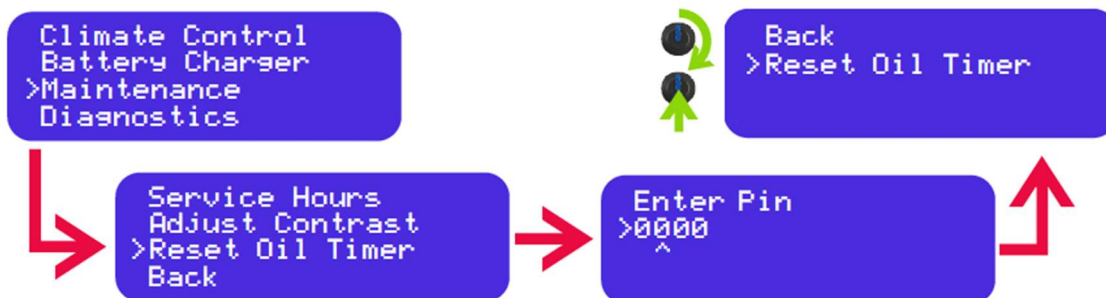
To **VIEW** your current service hours, select
Maintenance > Service Hours



Resetting Service Hours

Once Service is complete you must **RESET** the oil timer.

To reset the oil timer, select
Maintenance > Reset Oil Timer



A passcode is required to complete the reset.

The passcode 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

Primary repair shop is located at:

13067 Main Street

Lemont, IL 60439

HOURS OF OPERATION

Monday – Friday

8AM – 6 PM

Saturday

8AM – 12PM

The Repair Shop can be reached at

877-751-0686

Option 4

Nationwide PM service is provided by:



The most up to date listing of Service Centers
can be found at PilotFlyingJ.com.

An interactive map of service locations also
included on the Pilot/Flying J App.
Available for iPhone and Android

PARTS

Detailed Parts Listing, All Green APU Models

PART	KUBOTA	PERKINS/CAT	YANMAR
OIL FILTER	WIX 51358 (Standard) WIX 51344 (Oversized and Star)	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
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, call the 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 from 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 avoid running your APU with the shut of valves in the closed position.

This will cause the APU to overheat and shut down.



GREEN APU
AUXILIARY POWER UNIT

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