

Auto Gen Start

When dry camping without the assistance of shore power, the RV house batteries will typically require two to four hours of daily generator power in order for the batteries to adequately recharge. Using the inverter to program the generator for automatic operation can prevent the house batteries from falling to a low state of charge.

The key to programming Auto Gen Start is patience. Take your time and carefully follow each step. If an error appears, clear the system and begin again. Disable the system often to allow yourself as much opportunity as possible in learning to program Auto Gen Start.

Program Auto Gen Start to start the generator when the batteries reach 60% charge and to stop charging when 90% charge is attained. Running the generator to achieve 100% state of charge is not necessary and will require an excess amount of time and result in needless waste of generator fuel.

Auto Gen Start can be used when the RV is hooked to shore power or while dry camping. Before programming Auto Gen Start, consult with campground regulations to insure you are in compliance with locally governed 'Quiet Time,' the hours during which generator operation is prohibited.

Once you have located the remote panel, the following steps are used to program most Auto Gen Start systems. In the event your component differs, consult the manufacturer's operating manual:

- 1. Press and hold the Setup buttons (up and down arrows) for five seconds. The RC7 GS remote will beep and the screen will momentarily go blank. After entering the Setup mode, 'Search Sense' should be displayed. If Search Sense is not displayed, press the up and down arrows once again.*
- 2. Release the buttons. The programming mode has been entered when the Search Sense is displayed.*
- 3. Use the Menu buttons (up and down arrows) to scroll through the available field settings.*
- 4. Use the Settings button (right-pointing arrow) to scroll through available settings for selected field. The settings are average and programmed to work in most situations. However, it may be necessary to adjust the profile to fit a particular need. Use the Settings button to change the value or set the time.*

All-Electric motor homes utilize two inverters and two remotes. The remote in the monitor panel is the Master Remote; the other is the Slave Remote. All programming for the Auto Gen Start is done through the Master Remote.

Now is the time to check all the program settings. The following is the recommended settings for most standard systems:

- 1. Search Sense = Defeat*
- 2. Auto LBCO = On*
- 3. Battery Capacity = 500 amp standard; 1000 amp All-Electric*
- 4. Battery Type = Select Liquid Lead Acid or AGM*
- 5. Charge Rate = 100%*
- 6. Shore Power Amps = 30 amps*
- 7. RC7 GS Setup = No changes needed for Auto Gen Start*
- 8. LCD Contrast = Max contrast*
- 9. Fuel Gauge Cutout = 11.8 Volts DC*

Now it is time to tell the system when, and under what battery conditions, the generator should start and stop. The clock must first be set before the inverter will allow you to program the system. Scroll down to the last item - Set Clock.

1. The clock is a 24-hour clock. When the display reads 00:01, the time is set at 12:01 a.m. If the clock reads 13:00, the time is set to 1:00 p.m. When in the Clock Set Menu, the hours and minutes will alternately flash every eight seconds. Use the Settings button to advance the flashing hours or minutes. Holding down the button will cause the minutes to move more quickly.
2. The clock time and generator start/stop programming will be erased when the main battery disconnects are turned off.

After setting the clock, press the UP button to scroll back to Generator Start. These items will set the conditions at which the generator will automatically start and stop.

1. Generator Start = 60% SOC
2. Generator Stop = 90% SOC
3. Begin Generator Quiet Time - this is the time when the generator will cease operation regardless of battery state of charge. (RV Park Quiet Time)
4. End Generator Quiet Time - this is the time when the generator is allowed to operate.
5. Select Generator = Onan Quiet Diesel.

Programming is now complete for Auto Gen Start. Exit the programming mode by simultaneously pressing the Setup buttons. The display should now read 'Waiting for AC,' 'Inverting,' 'Charge Status Bulk,' 'Absorb,' or 'Float.'

When the generator engages at the command of Auto Gen Start, it will automatically cease operating at 90% state of charge. If Auto Gen Start has commenced, and continues to run until Quiet Time, the inverter will shut the generator off. Red error lights flash, and the display will indicate Gen Quiet Time. The fault alarm will sound for a short time and can be silenced by pushing the up and down buttons.

Monitor battery use to prevent the need for generator charge during Quiet Time. Heavy use of electrical components during evening hours may reduce the battery state of charge. Eliminate battery use as much as possible during the nighttime hours when the generator has been programmed to cease operation. Perform a careful inspection on the outside of the RV to insure that no bay or engine lights have been left on. Turn off the battery cut off switch inside of the coach. Turning off the battery cut off switch inside of the RV will not erase your Auto Gen Start programming, but will help to conserve on interior battery use.

Use the following steps to manually start the generator:

1. Use the RC7 GS remote to start or stop the generator when the Auto Gen Start feature is disabled.
2. Press the up or down arrow (while in the Main Menu) until the display reads Generator Start/Stop: Press On/Off.
3. Press and hold the On/Off button until the generator engages. The display will indicate the generator was started manually. Use the On/Off button, or any of the generator start/stop switches, to stop the generator.

Once you have programmed Auto Gen Start, it will not be necessary to re-program the system unless you have erased the commands, or engaged the battery cut off switch at the battery compartment. Disable Auto Gen Start when re-fueling, storing the motor home, or performing service to the RV batteries. Disable the system at the monitor panel. Enter the Main Menu until the display reads Generator Start/Stop, and press the button to Off.