



NEXT-GEN POWER SYSTEMS

NPS Auto-Gen Start (AGS) Installation Instructions

Please contact us at 866-407-1727 or npsclaims@npsrvpower.com with any questions

Installation:

- Open RV access panel and generator access panel to view the inside of the generator and shut off the 12 volt power master switch located on the generator. Disconnect the positive side battery cable (red) off the 12 volt power master switch and carefully cover end with electrical tape and set aside making sure not to allow it to make contact with the negative cable or terminal (black). Repeat with the negative (black) cable and set aside.
- Locate the male/female connectors on the interior start/stop harness and disconnect (should be able to locate by finding the wiring going out of the generator through the bezel). Taking the AGS plug the male to the female and female to male completing the circuit again.
- Take the loose red/black wires on the AGS and connect their ring terminal's to the post of the matching positive (red) and negative (black) on the 12 volt master switch. Reconnect and tighten making sure not to spin and break the ring terminal's on the AGS wiring. Once tight turn on the 12 volt power switch and secure the AGS with a zip tie.

Operation:

- Once wired, the GEN start/stop (on the gen) is no different. However the interior start/stop has now been adjusted.
- START in these instructions refers to the START button on the AGS or the START button on the interior remote, they are parallel now (connected).
- STOP in these instructions refers to the STOP button on the AGS or the STOP button on the interior remote, they are parallel now (connected).
- Push and release the START for approximately one second to start the gen. It will automatically prime for 15 seconds, then start, so this is not immediate.
- Push and release the STOP button for approximately one second to stop the gen.

To ENABLE AUTO MODE:

- Press/hold the interior START button for longer than 10 seconds (the switch LED will double flash for the 10 seconds, then will single flash when AUTO is enabled).
 - Simply put: Hold (START) until double flash on the button changes to single flash then release.
- The single flash per second indicates it is AUTO mode (whether the gen is running or not, single flash/second is AUTO mode). The only time this will change is if:
 - The gen is NOT running, AND 12 volt(DC) voltage is BELOW the start-trigger voltage. In this condition there will be 2-3 flashes/second. This should last 15 seconds until the gen auto-starts.
 - The gen has auto-started (is running) and the 12 volt (DC) voltage is ABOVE the stop-trigger voltage. In this condition there will be 2-3 flashes/second. This should last 10-15 MINUTES as the gen allows the charger to work a bit longer after absorption charge starts.

To DISABLE AUTO MODE:

- Simply press STOP (This must be done to manually start the generator for any reason)

To CALIBRATE:

**The AGS is calibrated from the factory with start-trigger at 11.8VDC stop-trigger 14.4VDC.*

- If you want different voltages, simply use the system (RV) until the battery reaches the voltage at which you would like the gen to start (factory is set for 11.8VDC). Then, on the AGS, press/hold CAL button then, with CAL pushed, press the START button until the START LED gives one long and one short flash (within one second). This will lock in the CURRENT voltage as the new start voltage trigger permanently until manually adjusted again. Disconnecting 12 volt(DC) power will not make AGS go back to original settings.
- When the gen has ran and the battery voltage is at absorption voltage (factory is set for 14.4), press/hold CAL button then, with CAL pushed, press the STOP button until the STOP LED gives one long and one short flash (within one second). This will lock in the CURRENT voltage as the new stop voltage trigger permanently until manually adjusted again. Disconnecting 12 volt(DC) power will not make AGS go back to original settings.
- Recalibration is not needed for standard lead (flooded or AGM) batteries.

**Calibration ONLY WORKS when the gen is OFF and NOT in AUTO MODE.*

**There is 1 fault code (9 flashes on the LED). This means the AGS auto started the generator, but something else shut it off (for example if it ran out of fuel). Pressing stop clears this fault and disables AUTO MODE.*