

Generator Logic Control

The **Generator Logic Control (GLC)** is a microprocessor based control for automatically starting and stopping a generator at a predetermined time, temperature, or battery voltage. The GLC also has the ability to accept a Monoplex input to add multiple start/stop switches throughout the vehicle for added convenience and versatility.

In the manual mode, a single push of the start/stop button either starts or stops the generator, depending on the state of the generator. A conventional rocker switch can also be used in conjunction with the system.

Pressing the "AUTO" button will set the controller into the auto start mode for 24 hours. In this mode, the GLC monitors the battery voltage and air conditioner thermostat wires. Should the battery voltage drop below 12.1 volts, or the thermostat call for compressor, the generator will be started automatically. If it was started for low battery, the generator will run until the battery voltage has reached 13.3 volts for one hour. If it had started due to the thermostat, the generator will run until the thermostat is met and an additional 10 minutes.

The GLC also has the ability to turn the "AUTO" function on at a certain time by pressing the start time button. When the start time is reached, the GLC will go into "AUTO" mode.

When the "stop time" mode is activated, the generator and the "AUTO" mode will be turned off. This is very useful for "quiet" hours.

To prevent accidental starting of the generator during maintenance, there is an input into the GLC for a safety switch for the generator door. When the generator door is opened, all automatic feature are turned off.



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Part Number 00-00859-000

Utilizing the **Monoplex** input, multiple start/stop switches can be wired into the system for further versatility. With the generator off, hitting any of the monoplex switches will start the generator. With the generator running, hitting the switch will turn off the generator.

When starting the generator, the GLC will energize the start relay for 5 seconds. Should the generator fail to start, the GLC repeats this action for a total of 5 times. After the fifth attempt, "GEN FAIL" will be displayed letting the owner know the generator was unable to start.

The GLC also comes with a digital battery voltage meter and an hour meter. Scrolling through the up and down buttons, the different information is displayed on the digital read out.

When in Auto mode, the GLC will control the generator for a 24 hour period. After 24 hours the unit will turn off to prevent accidental running while in storage. There is an optional activity switch input which can be either high or low side. When this switch is activated, the 24 hour timer begins from the beginning.

P/N 53-00859-000 Rev C 050305

Intelligent Use Of Technology

Generator Logic Control

SPECIFICATIONS

Part Number:	00-00859-000
Normal Input Voltage Range:	10-16 Volts DC
Operating temperature:	-40 to +85 C
Short term Over Voltage Protection:	+24Volts
Positive Voltage Spike Protection:	+150 Volts
Reverse Voltage Protection to:	-300 Volts

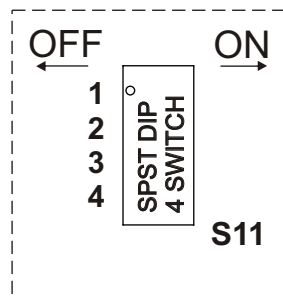
CONNECTIONS

J1 Pin 1	Monoplex Switch Input	J3 Pin 1	Start
J1 Pin 2	Monoplex Switch Input	J3 Pin 2	Common
J1 Pin 3	Thermostat Input	J3 Pin 3	Stop
J1 Pin 4	Ground	J3 Pin 4	Pre-Heat
J1 Pin 5	Generator Door Input	J3 Pin 5	Pre-Heat
J1 Pin 6	Activity Input		
J1 Pin 7	No Connect	J4 Pin 6	Hour Meter input
J1 Pin 8	+12 Volt		

DIP SWITCH SETTINGS

Set dip switch 1 and 2 for (S11) as follows:

- | | | |
|---|----------|----------------|
| 1 | ON | Diesel |
| | OFF | Gas |
| 2 | ON | Pulse Crank |
| | OFF | 5 second Crank |
| 3 | Not Used | |
| 4 | Not Used | |



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