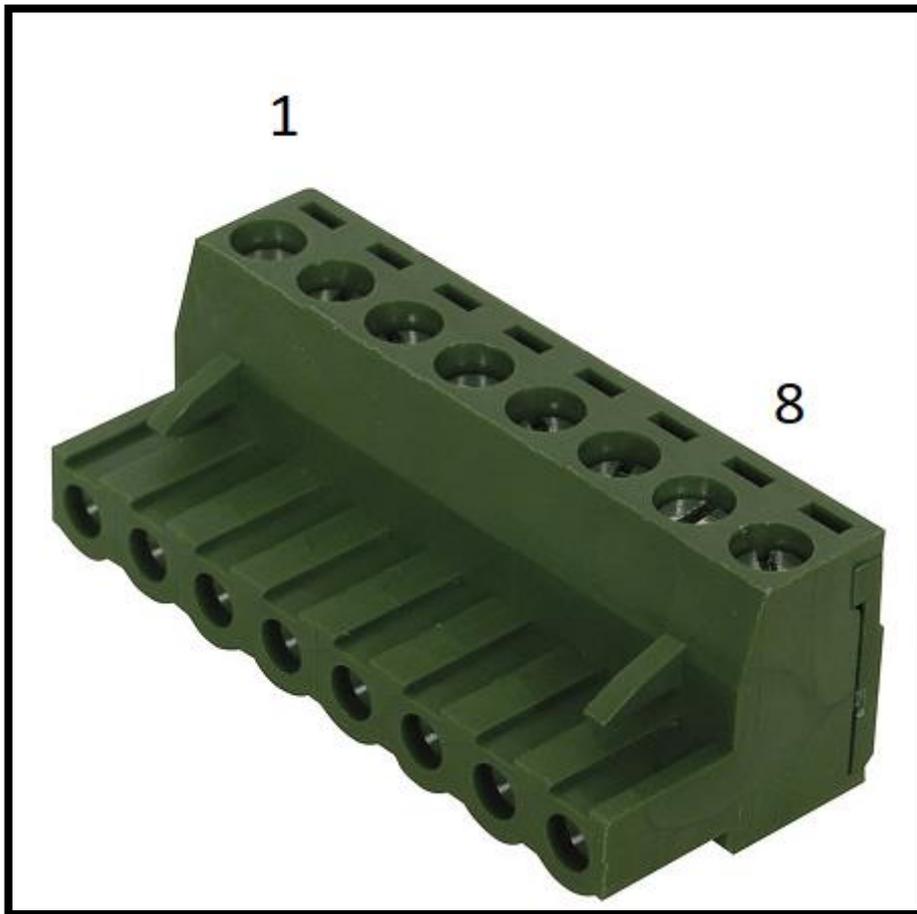


# Installation Guide – GCU Rev 1

## Wiring Pinout

Pin	Connection
1. Ground	- connect to metal point on vehicle body
2. Temp Sense	- temperature sensor
3. Temp Ground	- temperature sensor
4. Not connected	- does not connect to anything (diagnostic port only)
5. Lamp B	- green light wire in vehicles with dual-color glow plug lamp
6. Lamp A	- red light wire in vehicles with dual lamp, or regular single lamp
7. Glow	- trigger for glow plug solenoid
8. +12V	- ignition switch "ON" supply for +12V



## Configuration

- To enter the menu, press and hold (**long press**) the button until a **long beep** is heard.
- After a moment, the unit will begin beeping with the number of beeps corresponding to different settings in the menu.
- Once the number of beeps reaches the setting you wish to configure, press briefly (**short press**) the button.
- The unit will continue beeping with the number of beeps corresponding to the options available for the setting you wish to configure.
- Once the number of beeps reaches the option you wish to apply for that setting, **short press** the button to save it permanently and exit the menu.
- The table below explains the options and the number of beeps which apply to them:

1	Pre-Glow Duration		(seconds)
	Controls how long before the dash light goes out after turning the glow plugs on. (how long until the glow plugs are up to temp)	1	4
		2	6 (default)
		3	8
		4	10
		5	12
2	Glow Duration		(seconds)
	Controls how long before the glow plugs should stay on after the lamp has gone out and the engine has been started	1	6
		2	10
		3	15 (default)
		4	20
		5	25
		6	30
		7	40
		8	60
		9	120
3	After-Glow Duration		(seconds)
	Once the engine is started, the glow plugs toggle on/off to keep the glow plugs warm but not so hot as to damage the glow plugs. Aids starting in very cold weather while the engine gets up to temperature.	1	Disabled
		2	180
		3	240 (default)
		4	300
		5	360
		6	480
		7	600
4	After-Glow Interval		(seconds)
	How long on, how long off. Applies to The after-glow mode. 2 seconds is normal	1	1
		2	2 (default)
		3	3
5	Glow Temp Threshold		(deg C)
	The engine block temperature above which the glow plugs will not be activated at all	1	Disabled
		2	50
		3	55
		4	60
		5	65 (default)
		6	70

		7	75
		8	80
6	Temp Alert Threshold		(deg C)
	A subtle high-temperature alert	1	Disabled
		2	95
		3	98
		4	100 (default)
		5	105
		6	110
		7	115
		8	120
		9	125
		10	130
7	Temp Critical Threshold		(deg C)
	A less-subtle temperature alert	1	Disabled
		2	95
		3	100
		4	105
		5	110 (default)
		6	115
		7	120
		8	125
		9	130
		10	135
8	Voltage Alarm Mode		
	Depending on the mode, this will alert you to issues with the alternator or battery	1	Disabled
		2	Low Battery (<11.5V)
		3	Not Charging Only (<12.5V)
		4	Over Charging Only (>15V)
		5	Over Charging & Not Charging (default)