

EEG6500

Enhanced Electronic Governor

With Quikset Display

1 INTRODUCTION

GAC's EEG6500 digital governor is designed to regulate engine speed on diesel and gaseous-fueled engines. The EEG system is a suitable replacement for any mechanical governor system that needs flexibility, precision, or accurate control of governed speed. The EEG is designed for industrial engine applications from generator sets, and mechanical drives, to pumps or compressors.



Computer



Internet Connection

With the use of GAC's Quikset Display, the EEG requires no computer or Internet connection. It is compatible with all GAC actuators and ATB's, except the ADB335 and ACB2001.

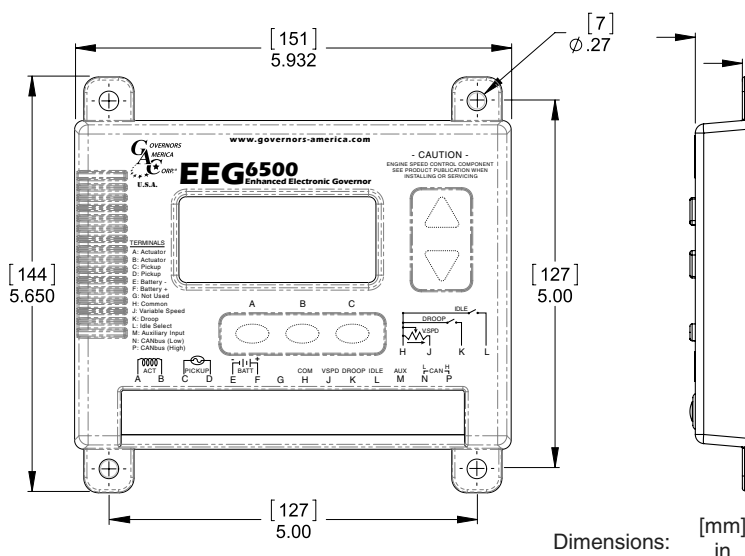
- Improved & Simplified LCD User Interface
- Fast Setup with 5 Push Buttons, No Potentiometers
- Rated, Idle Speed, and Variable Speed
- Selectable Isochronous, Droop, & Variable Governing
- Built-In Fault Protection With Overcurrent Sensing
- Adjustable Starting Fuel Strategy (Black Smoke Reduction)
- Extended Speed Range to 12KHz or 6000 RPM with Frequency Display
- Speed Ramping (Idle to Rated or any Speed Setting)
- Includes Standard GAC AUX Input for Synchronizing and Load Sharing
- J1939 Engine Data and Speed Output
- Overspeed Sensing & Protection

2 SPECIFICATIONS

PERFORMANCE	
Isochronous Operation	± 0.25%
Speed Range / Governor	100Hz - 12 KHz (200-6000 RPM w/120 tooth flywheel) cont.
Idle Adjust	Full Range
Droop Range	1 - 25% regulation
Speed Trim	Programmable ±120 Hz
INPUT / OUTPUT	
Supply	12-24 VDC Battery Systems (7.0 to 32 VDC)
Polarity	Negative Ground
Power Consumption	70mA max. continuous plus actuator current
Speed Sensor Signal	1.0 - 60.0 VRMS
Actuator Output	8-10 Amps Continuous, Momentary >10A Max; works with all GAC actuators and ATB's except the ADB335 and ACB2001.
Load Share/Synchronizer Input	0-10 VDC (5V nominal, reversed polarity, 145Hz / V)
Reverse Power Protection	Yes
Transient Voltage Protection	60V

ENVIRONMENTAL	
Ambient Temperature	-40° to 85°C (-40 to 185°F)
Relative Humidity	up to 95%
All Surface Finishes	Fungus Proof and Corrosion Resistant
PHYSICAL	
Dimension	See Section 3 "Installation"
Weight	1.8 lbs. (820 grams)
Mounting	Any position, Vertical Preferred
RELIABILITY	
Vibration	7G, 20-100 Hz
Shock	20G Peak
Testing	100% Functional Test
COMPLIANCE / STANDARDS	
Agency	CE, (EN55011, EN50081-2 and EN50082-2)
Communications	SAE J1939 (Optional)

3 INSTALLATION



Vertical orientation allows for the draining of fluids in moist environments.



Mount in a cabinet, engine enclosure, or sealed metal box.



Avoid Extreme Heat

WARNING

An overspeed shutdown device, independent of the governor system, should be provided to prevent loss of engine control which may cause personal injury or equipment damage. Do not rely exclusively on the governor system electric actuator to prevent overspeed. A secondary shutoff device, such as a fuel solenoid must be used.

TERM	DEFINITION	GAUGE AWG / mm ²	NOTES
A	Actuator (+)	#16 / 1.31	
B	Actuator (-)	#16 / 1.31	
C	Magnetic Pickup (+)	#20 / 0.52	* Twisted wires 14 turns per foot. 0.02in (.51mm) gap between sensor and gear teeth.
D	Magnetic Pickup (-)	#20 / 0.52	
E	Battery (-)	#16 / 1.31	
F	Battery (+)	#16 / 1.31	A 15 amp fuse must be installed in the positive battery lead to protect against any overload or short circuit
H	Ground Signal	#16 / 1.31	Reference for variable speed/trim input & switches
J	Variable Speed Input	#20 / 0.52	5K Ω Resistive, 0-2.5 VDC or 4-20mA. Increasing Voltage. Resistance or Current Increases Speed
K	Droop Select	#16 / 1.31	Active when connected to Terminal H
L	Idle Select	#16 / 1.31	Active when connected to Terminal H
M	Aux Input	#20 / 0.52	Load sharing / synchronizing, 5V nominal (0-10V), reverse ramp
N	CAN L	#20 / 0.52	Twist wires 14 turns per foot.
P	CAN H	#20 / 0.52	

RECOMMENDATIONS

WARNING

Loss of Magnetic Pickup Sensing



If EEG detects no input from the magnetic pickup, the EEG will set the actuator to 0V and set the speed to 0 RPM. The display will flash the RPM along with the Warning Indicator. Parameters will be unchangeable.

Parameter Value

Displays the value of a selected parameter or live running parameter. This area will blink if a system shutdown and restart is required.



Parameter Units

Displays the units for the parameter (e.g. RPM)



Secondary Parameters

Pressing either the UP or DOWN arrow allows you to toggle through the five secondary parameters: Engine Speed (RPM), Duty Cycle (%), Actuator Current (Amps), Engine Speed (Hz) and Variable Speed (%).

Overcurrent

If the EEG detects an actuator overcurrent it will terminate power to the actuator, the display will flash Actuator Current along with the warning indicator. (Cycle power to restart)



Fuel Limit

If the EEG detects that the FUEL LIMIT setting has been exceeded, the display will flash the FUEL LIMIT along with the warning indicator. Parameters will be unchanged.



Over Speed

"Over Speed" will blink when the unit is in overspeed. (Cycle power to restart)

Lock Feature

Once the LOCK parameter on the main menu is enabled ("ON"), the display can be manually unlocked.

SPEED RAMP V.SPEED LOCKED ← Row 2 Column 3

Locking/Unlocking the Display

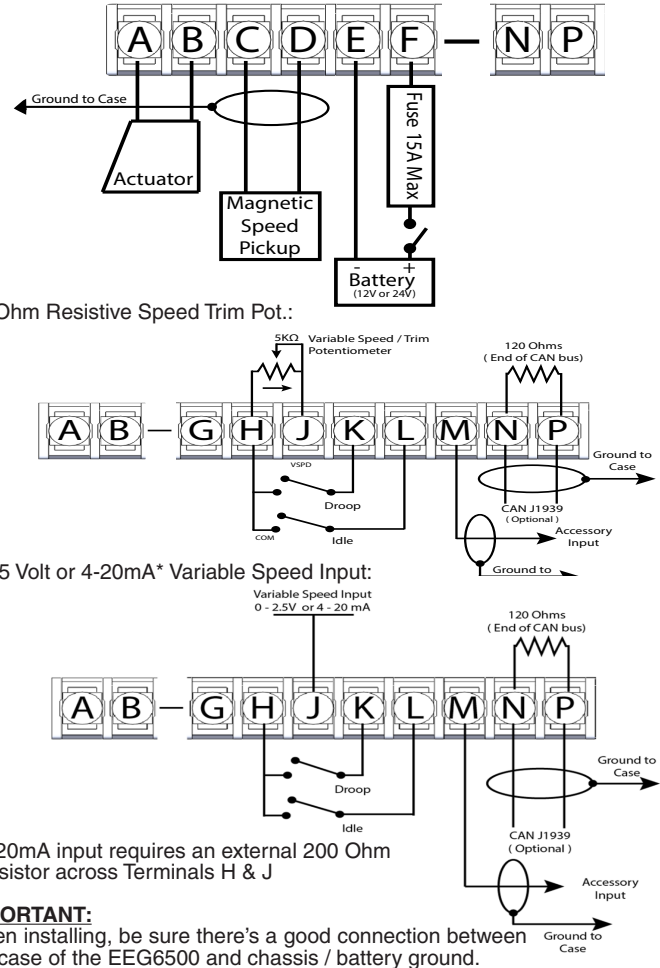
Press and hold both the UP and DOWN arrows simultaneously for 3 seconds to UNLOCK or to LOCK the display.



Quikset Menu

OVER SPEED	#TEETH	CRANK
SPEED RAMP	V.SPEED	LOCKED
START FUEL	DROOP %	FUEL RAMP
SPEED	IDLE	FUEL LIM
GAIN	STABILITY	DEADTIME

One row of parameters is displayed at a time.



5K Ohm Resistive Speed Trim Pot.:

0-2.5 Volt or 4-20mA* Variable Speed Input:
Variable Speed Input
0 - 2.5V or 4 - 20 mA

* 4-20mA input requires an external 200 Ohm resistor across Terminals H & J

IMPORTANT:

When installing, be sure there's a good connection between the case of the EEG6500 and chassis / battery ground.

Parameter Adjust

Parameter Adjust Up

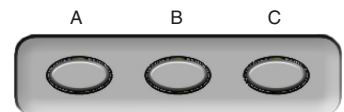
Increment a Parameter Value:
HOLD and TAP or

Rapidly Increment a Value:
HOLD and HOLD or



Parameter Adjust Down

Column Select Buttons



To change the displayed row of parameters:

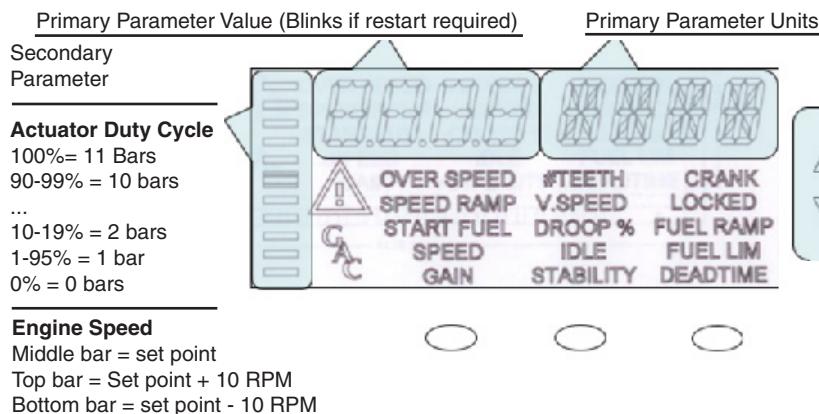
Tap any

To view a parameter value in a selected row:

Hold

For: SPEED Hold: Button A
For: IDLE Hold: Button B
For: FUEL LIM Hold: Button C

End User Interface



Pressing either UP or DOWN arrow moves the primary and secondary parameters to the next parameter set. The list is always traversed in one direction.

Primary Parameter (Units)	Secondary Parameter
Engine Speed (RPM)	Actuator Duty Cycle
Duty Cycle (%)	Engine Speed relative to set point
Actuator Current (A)	
Engine Speed (Hz)	
V-Speed (%)	

6 FEATURES

TRIM or VARIABLE SPEED OPERATION

Trim Function - Performs finer adjustments (e.g. generator frequency) The resistive input speed function is active when the VSPD (Variable Speed) parameter is "OFF" (default value is OFF). 5K Ohm potentiometer typical.

Variable Speed Function - Operates over a larger RPM range. Variable speed 0 - 2.5 volt input to terminal 'J' is active when VSPD (Variable Speed) parameter is "ON".

Special Menu Parameter		Quikset Menu Parameters	
VSPD	MODE	SPEED	V. SPEED
OFF	Trim (Default)	Application Rated Speed (e.g., 1500 RPM)	Speed Trim (10 = ±10 Hz)
ON	Variable Speed	Minimum speed when potentiometer is at lowest resistance (e.g., 1000 RPM)	Maximum Speed when potentiometer is at the highest resistance (e.g., 2000 RPM)

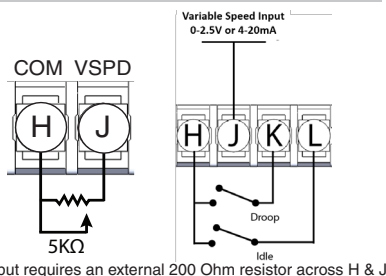
IMPORTANT Increasing voltage, resistance or current increases speed.

RESISTIVE, VOLTAGE OR CURRENT INPUT TO TERMINAL 'J'

Conversion Formulas:

$$\text{Hertz}_{\text{MAG PICKUP}} = \frac{(\text{RPM} \times \# \text{ Teeth})}{60\text{sec}}$$

$$\text{RPM} = \frac{(\text{Hertz}_{\text{MAG PICKUP}} \times 60\text{sec})}{\# \text{ Teeth}}$$

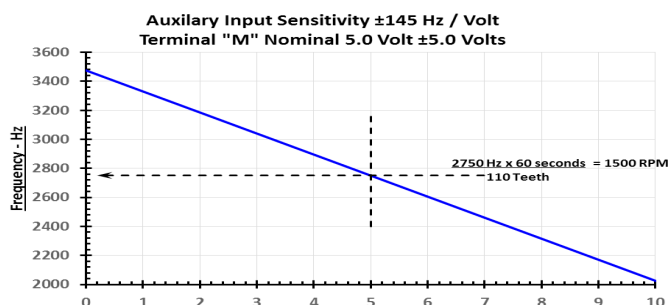


IDLE SPEED

IMPORTANT The optional external switch must be connected between terminals "H" and "L". A pressure switch may also be used as a method of enabling. When enabled, IDLE has an independent Gain adjustment.

ACCESSORY INPUT

The Auxiliary (Aux) input, terminal 'M', accepts signals from auto synchronizers, load sharing units, and other GAC accessories.



7 PRE-START SET-UP & QUICKSET PARAMETERS

Set the parameters below before starting the engine:

#TEETH	Input the Number of Teeth on the Flywheel. This can not be changed while engine is running.
CRANK	Input the Crank Termination (RPM)
SPEED	Input the Fixed Speed of the Engine (RPM)

OVER SPEED SPEED RAMP START FUEL SPEED GAIN	#TEETH V.SPEED DROOP % IDLE STABILITY	CRANK LOCKED FUEL RAMP FUEL LIM DEADTIME
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ADJUSTABLE QUIKSET PARAMETERS

OVER SPEED *	#TEETH	CRANK *
Range: 400 - 6000 RPM Default: 2000 RPM	Range: 60 - 250 Default: 120	Range: 100 - 1000 RPM Default: 400 RPM
RPM to automatically shutoff the actuator	Number of teeth on flywheel	RPM which EEG switches from starting fuel limit to fuel limit
SPEED RAMP	V.SPEED *	LOCKED
Range: 25 - 2000 Default: 300	Range: 0-6000 RPM (vspd) 0-120 Hz (trim) Default: 1800 RPM (vspd) : 0 Hz (trim)	Range: OFF, ON Default: OFF
Rate at which speed changes from idle to set speed and back, or rate change in variable speed mode.	Maximum speed change allowed from trim input	Enables Manual/Auto locking of display. Press and hold UP and DOWN arrows simultaneously for 3 seconds to UNLOCK or LOCK the display.
START FUEL	DROOP%	FUEL RAMP
Range: 0 - 100% Default: 100%	Range: 0 - 25.0% Default: 5.0%	Range: 1 - 100% / Sec. Default: 10%
Initial actuator position at the start of cranking	Droop to apply under maximum load (based on current of actuator)	Actuator position increase in percent per second from cranking to low idle speed, starting from the 'Start Fuel' position
SPEED *	IDLE *	FUEL LIM
Range: 0-6000 RPM(fixed) 0-6000 RPM(droop) Default: 1500 RPM(fixed) 50 RPM(droop)	Range: 150 - 1500 RPM Default: 900 RPM	Range: 0 - 100% Default: 100%
Operating speed of engine	Speed of engine when IDLE input is closed	Maximum actuator percentage allowed
GAIN	STABILITY	DEADTIME
Range: 1 - 100, 100 = Max Gain Default: 50 (rated) : 10 (idle)	Range: 1 - 100, 100 = fastest response Default: 50	Range: LOW, HI Default: HI
Proportional (P) set point of the PID control at operating SPEED and IDLE	Integral (I) set point of the PID control	Derivative (D) set point of the PID control

* Maximum 12KHz

8 ADJUSTING FOR STABILITY

Once the engine is running at operating speed and at no load, the following governor performance adjustments can be made to increase engine stability.

GAIN - RATED SPEED & IDLE SPEED

NOTE The EEG6500 is equipped with two separate gains, one for rated speed, the other for idle speed. Both are set using the GAIN setting on the Quikset menu.

GAIN TYPE	ADJUSTMENT PROCEDURE
RATED SPEED	1. Selected when IDLE input is disconnected.
IDLE SPEED	1. Connect the idle input to ground. 2. Change GAIN value. 3. Disconnect Idle input from ground to switch back to Rated.

NOTE Idle icon will blink.

QUIKSET MENU	
PARAMETER	ADJUSTMENT PROCEDURE
A. GAIN	1. Increase this parameter until instability develops. 2. Then, gradually decrease this parameter until stability returns. 3. Finally, decrease this parameter one increment further to ensure stable performance. 4. If instability persists, adjust the next parameter.
B. STABILITY	1. Follow the same adjustment procedure as the GAIN parameter. 2. If instability persists, adjust the next parameter.
C. DEADTIME	1. If fast instability occurs, switch DEADTIME to low and repeat steps A & B.

NOTE Normally, adjustments made at no load achieve satisfactory performance. For further performance, refer to sections (10) & (11).



10 ADVANCED PARAMETERS MENU

Display Special Menu Parameters: "AUX" appears in display

Selecting Parameters:

Previous Parameter Next Parameter

Adjust Parameters:

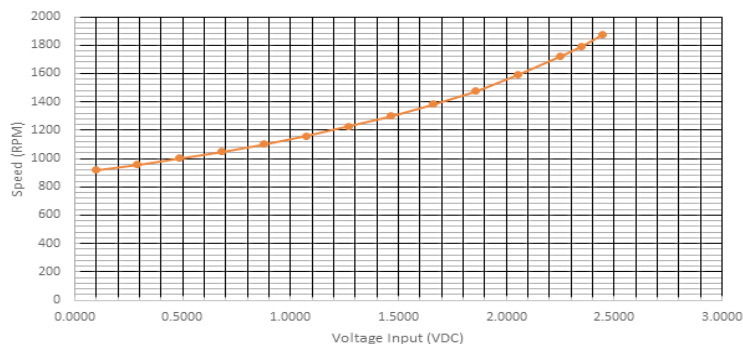
Increase Parameter 
Decrease Parameter 

Return to Quikset Menu: Hold ALL 3  for 2 seconds

NOTE 1. After 3 minutes of no user input, EEG switches to Quikset Menu.
2. "Lock" is displayed when attempt to change a Read-Only parameter.

EEG6500 - Variable Speed Response to External Voltage Input Variable Speed Parameter (VSPD)- 'ON'

Response of the EEG6500 variable speed input to external voltage input
(configured for 900 - 1800 RPM)



9 ADJUSTING FOR DROOP

After the initial set up is completed and the # of Teeth, Crank Termination Speed and Rated Speed are set, position the external switch connecting terminals 'H' and 'K' on to activate the DROOP mode following these sequence steps.

1. Go to the Advanced menu: Press and hold all three buttons simultaneously for two seconds to switch to Advanced Menu.
2. Confirm that the **VSPD** (Variable Speed / Fixed Speed Control) is off. Default position is off.
3. Confirm that the **LEAD** circuit is off. Default position is ON.
4. Set the **NLCU** (No Load Current) to the measured / displayed current value when operating at no load rated speed (default value is 0.5 amps.)
5. Set the **FLCU** (Full Load Current) to the measured / displayed current value when operating at full load rated speed (default value is 4.0 amps.)
6. Return to the Main Menu: Press and hold all three buttons simultaneously for two seconds to switch to the Main Menu.
7. Select and set DROOP to the desired percentage.
8. Change the Speed parameter, which turns into the 'DROOP OFFSET'. This sets the RPM, above operating speed, to which the system will be commanded when DROOP is enabled. This is an offset value.

EXAMPLE 1500 RPM operating speed x 0.05 (5.0% droop) = 75 RPM
Input 75 RPM, this is the offset value.

The **NLCU** entered must be less than the **FLCU** and the difference between the two must be at least 0.5A. If an invalid combination is entered a warning will be flagged and the parameters will be default to 0.5A and 4.0A.

ADVANCED MENU PARAMETERS (CONFIGURABLE)

Parameter	Definition	Range	Default
AUX	Auxiliary Input Enable 145 Hz/volt, 5 volt nominal Range: 1-9 V	Off, On	Off
VSPD	Variable Speed or Trim Select (On=Variable Speed, Off=Trim)	Off, On	Off
LFG	Light Force Governor	Off, On	Off
LEAD	Lead Circuit - For Increased Governor Response / Increased GAIN Adjustment Authority.	Off, On	On
NLCU	No Load Current - Amps	0.0 - 9.5	0.5
FLCU	Full Load Current - Amps	0.5 - 10.0	4.0

ADVANCED MENU PARAMETERS (READ ONLY)

Parameter	Definition
SREV	Software revision number
BID	Software build identifier
AREV	Assembly revision: Identifies board hardware configuration, not software.
FLTH	Highest fault code since power up. Aids in trouble shooting.
DATL	Supplemental data associated with last fault code. Aides in troubleshooting.
FTL	Last fault code detected. Associated data is DATL and aids in trouble shooting.

LIGHT FORCE GOVERNOR

Turning the "Light Force Governor", (**LFG**) feature 'ON' (default is 'OFF') scales the governor's proportional response (GAIN) for the best resolution when controlling small actuators, like the T1 ATB, ALR/ALN, 100/103/104 series and normally closed Cummins EFC actuators. Turn the LFG feature "ON" for use with these low current actuators. The letters "LFG" will be displayed in place of the Primary Parameter Units when adjusting GAIN and STABILITY to indicate the feature is ON. The LFG Feature can only be turned ON or OFF when the engine is not running.

LEAD CIRCUIT

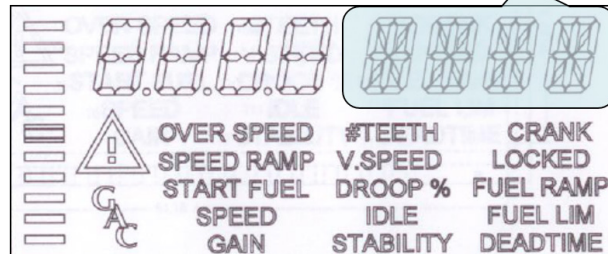
Turning the "Lead Circuit" (**LEAD**) ON (default is ON) enables the governor to be more responsive and typically increases the range of GAIN adjustment. Turn Lead Circuit 'ON' when there is slow or moderate hunting at higher GAIN settings.

OEM SAVE SETTINGS

OEM SAVE copies the currently active settings into separate OEM configuration area that can be restored at later date.

OEM

Displays "SAVE" when data has been saved



Press LEFT, RIGHT, and DOWN Buttons simultaneously and hold until "SAVE" is displayed (about 10 seconds)

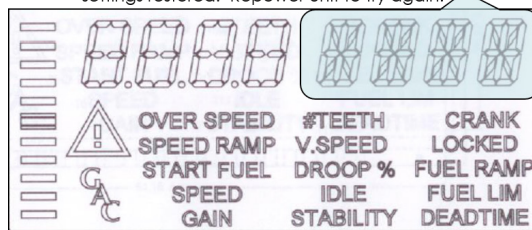
OEM RESTORE

OEM RESTORE copies the settings stored from the OEM configuration area into the current settings and saves them for next power up. After restoration, unit must be repowered to start engine.

OEM RESTORE

Displays "OEM" when settings have been restored successfully into current user settings. Repower unit to start.

Displays "FAIL" when error occurred restoring settings from OEM area. Unit tries to restore from user settings, if unsuccessful, factory settings restored. Repower unit to try again.



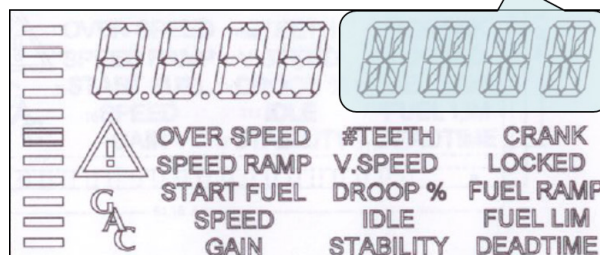
During Power Up, Press LEFT, RIGHT, and DOWN Buttons simultaneously and hold until "OEM" or "FAIL" displayed. If software revision displayed, all required buttons were not pressed properly or in time.

FACTORY RESTORE

Factory Restore loads the default settings as shipped from GAC into the current settings and saves them for next power up. After restoration, unit must be repowered to start engine. Factory Restore can only be done during power up.

FACTORY RESTORE

Displays "FACT" when settings have been restored successfully into current user settings. Repower unit to start.



During Power Up, Press LEFT, RIGHT, and UP Buttons simultaneously and hold until "FACT" displayed. If software revision displayed, all required buttons were not pressed properly or in time.

11 FAULT CODES

ADVANCED MENU PARAMETERS (CONFIGURABLE)

CODE	CAUSE	EFFECT	CUSTOMER ACTION
1	Actuator over current (continuous)	Actuator turned off for 30 sec.	Check actuator wiring.
2	Loss of speed signal (inc/dec in speed by more than 64Hz in 4ms, 16KHz/s)	WARNING indicator blinks then system shutdown	Check speed pickup.
3	Over speed (speed exceeds OVER SPEED setting for 12 ms)	WARNING and OVER SPEED indicators blink then system shutdown.	Check fuel system as well as OVER SPEED, SPEED, and V.SPEED
203	Variable Speed settings are reversed. V.SPEED is lower than SPEED.	WARNING indicator blinks, speed set to V.SPEED setting, variable speed input unresponsive.	Flip V.SPEED and SPEED settings.
206	No potentiometer/signal detected on variable speed input when VSPD enabled.	WARNING indicator blinks, speed set to SPEED setting.	Check potentiometer wiring.
241	New software loaded. Configuration not compatible.	Default configuration used.	Reset configuration.
251	Software loaded on incompatible hardware.	WARNING indicator blinks then System shutdown.	Return unit to GAC
307	FLCU / NLCU Setting invalid	Load calculation done with 0.5 & 4.0 amp values	Adjust NLCU / FLCU per section 9

IMPORTANT For all other codes, note the condition and contact GAC. The WARNING indicator will blink and failures will cause a system shut down.

12 J1939 CAN INFO

J1939 Address: 26

PGN	DEFINITION	NOTES
61444	Engine Speed	Engine speed in RPM

13 SYSTEM TROUBLESHOOTING

SYSTEM INOPERATIVE

If the engine governing system does not function, the fault may be determined by performing the voltage tests described in Steps 1 through 3. Positive (+) and negative (-) refer to meter polarity. Should normal values be indicated during troubleshooting steps, then the fault may be with the actuator or the wiring to the actuator. Tests are performed with battery power on and the engine off, except where noted. See actuator publication for testing procedure on the actuator.

STEP	WIRES	NORMAL READING	PROBABLE CAUSE OF ABNORMAL READING
1	F(+) & E(-)	Battery Supply Voltage (12 or 24V DC)	1. DC battery power not connected. Check for blown fuse 2. Low battery voltage 3. Wiring error
2	C & D	1.0V AC RMS min. While Cranking	1. Gap between speed sensor and gear teeth too great 2. Improper or defective wiring to the speed sensor 3. Resistance between D and C should be 130 to 1200 ohms. 4. Defective speed sensor.
3	F(+) & A(-)	1.0 - 2.0V DC While Cranking	1. SPEED or IDLE parameter set incorrectly 2. CRANK or START FUEL set incorrectly 3. Short/open in actuator wiring 4. Defective speed control 5. Defective actuator, see Actuator Troubleshooting

INSTABILITY

INSTABILITY	SYMPTOM	PROBABLE CAUSE OF ABNORMAL READING
Fast Periodic	The engine seems to jitter with a 3Hz or faster irregularity of speed.	1. Readjust the GAIN and STABILITY for optimum control. 2. In extreme cases, change the DEADTIME parameter.
Slow Periodic	Speed irregularity below 3Hz. (Sometimes severe)	1. Check fuel system linkage during engine operation for: a. binding b. high friction c. poor linkage 2. DEADTIME Parameter set too high.
Non-Periodic	Erratic Engine Behavior	1. Increasing the GAIN should reduce the instability but not totally correct it. If this is the case, there is most likely a problem with the engine itself. Check for: a. engine mis-firings b. an erratic fuel system c. load changes on the generator set voltage regulator.

If unsuccessful in solving instability, contact GAC for assistance.
GAC@governors-america.com or call: 1-413-233-1888

UNSATISFACTORY PERFORMANCE		
SYMPTOM	NORMAL READING	PROBABLE CAUSE OF ABNORMAL READING
Engine Over Speeds	1. Do Not Crank. Apply DC power to the governor system.	1. If the actuator is at minimum fuel position and there exists an erroneous speed signal, then check speed sensor.
	2. Manually hold the engine at the desired running speed. Measure the DC voltage between Terminals A(-) & F(+) on the speed control unit.	1. If the voltage reading is 1.0 to 2.0V DC: a. SPEED parameter set above desired speed b. Defective speed control unit 2. If voltage reading is > 2.0V DC then check for: a. actuator binding b. linkage binding 3. If the voltage reading is below 1.0V DC: a. Defective speed control unit
	3. Check #TEETH parameter.	1. Incorrect tooth count entered.
Over Speed shuts down engine after running speed is reached	1. Examine the SPEED and OVER SPEED operating parameters for the engine	1. SPEED parameter set too high. 2. OVER SPEED set too close to SPEED. 3. Check SPEED RAMP parameter. 4. Actuator or linkage binding. 5. Speed Control unit defective. 6. Gain too low.
Over Speed shuts down engine before running speed is reached	1. Check resistance between Terminals C&D. Should be 130 to 1200 ohms. See specific Magnetic Pick-up data for resistance.	1. OVER SPEED set too low 2. If the speed sensor signal is erroneous, then check the wiring.

UNSATISFACTORY PERFORMANCE		
SYMPTOM	NORMAL READING	PROBABLE CAUSE OF ABNORMAL READING
Actuator does not energize fully	1. Measure the voltage at the battery while cranking.	1. If the voltage is less than: a. 7V for a 12V system, or b. 14V for a 24V system, Then: 1. Check wiring 2. Check circuit protection/relay 3. Check charging system 4. Check battery
	2. Momentarily connect Terminals A and F. The actuator should move to the full fuel position.	1. Actuator or battery wiring in error 2. Actuator or linkage binding 3. Defective actuator 4. Fuse open. Check for short in actuator or harness. 5. Check START FUEL and CRANK
Engine remains below desired governed speed	1. Measure the actuator output, Terminals A & B, while running under governor control.	1. If voltage measurement is within 2V DC of the battery supply voltage level, then fuel control is restricted from reaching full fuel position, possibly due to mechanical governor, carburetor spring, or linkage interference. 2. Check SPEED, IDLE, GAIN, START FUEL, and CRANK



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EEG6500 Technical Assistance Worksheet

Please provide the following information so we assist you with timely, technical recommendations:

Date: _____

Company Name: _____

Contact Info: E-Mail Address: _____

Phone Number: _____

Reported Problem: _____

Engine Make, Model & Application: _____

Controller Model and Serial Number: _____

Actuator Model and Serial Number: _____

EEG6500 GOVERNOR SETTINGS		
Parameter	Factory Settings	Customer Settings
Gain	50 (Rated) 10 (Idle)	
Stability	50	
Deadtime	HI	
Speed	1500RPM	
Idle	900 RPM	
Fuel Limit %	100	
Start Fuel %	100	
Droop %	5.0	
Fuel Ramp %	10	
Speed Ramp	300 RPM/sec	
V. Speed	1800 RPM (VSPD) 0 Hz (Trim)	
Overspeed	2000 RPM	
# of Teeth	120	
Crank	400 RPM	

ELECTRICAL CHECKS		
F(+) & E (-)	12 or 24 Volts DC	
C & D	1.0 VAC RMS Min. at Cranking	
F (+) & A (-)	1.0 to 2.0 VDC While Cranking	

ADVANCED SETTINGS		
Parameter	Factory Settings	Customer Settings
AUX	Off	
VSPD	Off	
LFG	Off	
LEAD	Off	
NLCU	0.5	
FLCU	4.0	
JADR	0	
FLTL	-----	
DATL	-----	
FLTL	-----	

ADVANCED MENU PARAMETERS (READ ONLY)		
Parameter	Factory Settings	Software Revision Number
SREV	-----	