**SPECIFICATIONS**

### Before Starting the Engine:
- **±1%**

### TERMINALS
- 0.25 to 120 VRMS
- 100% Functionally Tested
- 10 VDC, Internal
- Manually hold the C(+) & F(-)
- 300 - 10K Hz continuous
- B(+) & H(-)
- 60 mA continuous plus actuator current
- An overspeed shut down device, independent of the governor

### PROBABLE CAUSE OF Battery Supply

### ADJUSTMENTS
- S(+) & T(-)
  - -65° to 180°F (-55 to 82°C)
  - Momentarily connect B
  - Negative ground, case isolated
- 2.0 VDC while cranking
- Fungus Proof and Corrosion Resistant
- Actuator goes to full fuel. Then

### Governor Speed Setting
- The governed speed set point is increased by clockwise rotation of the SPEED adjustment pot. Remote speed adjustment can be obtained with an optional Speed Trim Control. (See Diagram 2)

### Governor Performance
- Once the engine is operating and at no load, the following governor performance adjustment can be made:
  - 1. Rotate the GAIN adjustment clockwise until instability develops. Gradually move the adjustment counterclockwise until stability returns. Move the adjustment one division further counterclockwise to insure stable performance.
  - 2. Adjust the STABILITY adjustment clockwise until stability returns. Move the adjustment one division further to insure stable performance.
  - 3. The GAIN and STABILITY adjustments may require minor changes after engine load is applied. Normally, adjustments made at no load achieve satisfactory performance. A strip-chart recorder can be used to further optimize the adjustments. If instability cannot be corrected or further performance improvements are required, refer below to the Section 4 TROUBLESHOOTING.

### Speed Droop Operation
Adjustable droop can be obtained by connecting a 50K potentiometer to Terminals A, P, and R as illustrated in Diagram 2. The range of droop is dependent on the change of governor current and the frequency of the speed sensor signal.

### Idle Speed Setting (ESC63C-23 ONLY)
Place the cover mounted selector switch in the “IDLE” position. Idle speed setpoint is increased by clockwise rotation of the IDLE adjustment control.

### Accessory Input
The accessory Terminal R (1 on ESC63C-20) accepts input signals from load sharing units, auto synchronizers, and other governor system accessories. GAC accessories are directly connected to this terminal. It is recommended that this connection from accessories be shielded, as it is a sensitive input terminal.

### Accessory Supply
The +10 Volt supply, Terminal K, is used to provide power to load sharing units and other GAC governor system accessories. Ground reference is Terminal P.