Connecting the Magnetic Speed Sensor:

- Install the speed sensor according to the manufacturer’s instructions.
- Ensure all connections are secure and free of corrosion or moisture.
- Test the sensor’s operation with a speed ramp to verify accurate readings.

Adjustments:

- Before starting the engine:
  - Check that the actuator’s stability, and external speed trim are set to their mid-positions.
  - Connect the speed sensor signal to the governor system as per the instruction manual.
- Start the engine:
  - The speed control system should be fully operational.
  - Ensure the speed sensor is operating correctly.

Governor Setting:

- The settings are dependent on the speed droop and speed trim adjustments.
- Adjustments should be made to ensure optimal performance.

Unsatisfactory Performance:

- Symptom: Speed Overspeeds
  - Normal Reading: Do Not Crank. Apply DC power to the governor system.
  - Adjustment: Change the governor’s speed setpoint.

Wiring:

- Basic electrical connections are illustrated in Diagram 2.
- Ensure all connections are secure and insulated.
- Use appropriate wire size for minimum dropoff.

Troubleshooting:

- Step 1: Check power input.
  - Normal Reading: Battery Supply Voltage (12, 24, or 30 VDC).
  - Adjustment: Ensure power is connected correctly.

- Step 2: Check actuator operation.
  - Normal Reading: GAC Power Consumption.
  - Adjustment: Check actuator for proper function.

Specifications:

- Performance:
  - Speed range: 0.5 to 30 VRMS
  - Torque range: 60 mA continuous plus actuator current
  - Speed drift with temperature: ±0.1% per °C
  - Speed Trim Range: ±200 Hz

- Environmental:
  - Ambient Temperature: -40°C to 85°C
  - Relative Humidity: Up to 95%
  - Airborne Pollution: Fungus Proof and Corrosion Resistant
  - Vibration: 5G @ 20 - 500 Hz

- Reliability:
  - Testing: 100% Functionally Tested