Governors America Corp.

Distinction in the World of Engine Governing & System Controls

genset controls & accessories digital management engine systems magnetic pickups custom control systems actuators

Product Catalog
When a GAC actuator is installed on an engine and electronically connected to compatible GAC governing system components, a high performance speed control system results. The design baseline for GAC actuators incorporates fast responses, multi-voltage usage, and proven reliability to allow for more precise control. All of GAC actuators are easy to install with no maintenance required.

**ACTUATORS**

**DESIGNED TO OUTLIVE THE LIFE OF THE ENGINE**

The ATB Series integral throttle body electric actuators are designed to control the air or air/fuel mixture to a gas or gaseous-fueled engine. They are typically used to control an engine by working in tandem with a conventional fuel mixer. The design baseline for the ATB Series incorporates fast response and proven reliability to allow for efficient and more precise control. The ATB Series actuator directly drives the integrated throttle plate. Internal return springs provide for a normally closed valve for fail-safe operation. This ensures that the throttle plate returns to the minimum fuel position when the actuator becomes de-energized. Available with throttle plate position feedback sensor, higher temperature rating, or internal sealing for turbo-charged applications.

### ATB T1 Series

- 12 or 24 VDC
- 25mm to 40mm Bore Size
- Packard Connector

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATB251T1N-12 or -24</td>
<td>25mm</td>
<td></td>
</tr>
<tr>
<td>ATB251T1F-12 or -24</td>
<td>25mm / Position Feedback Sensor</td>
<td></td>
</tr>
<tr>
<td>ATB301T1N-12 or -24</td>
<td>30mm</td>
<td></td>
</tr>
<tr>
<td>ATB301T1F-12 or -24</td>
<td>30mm / Position Feedback Sensor</td>
<td></td>
</tr>
<tr>
<td>ATB351T1N-12 or -24</td>
<td>35mm</td>
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<tr>
<td>ATB351T1F-12 or -24</td>
<td>35mm / Position Feedback Sensor</td>
<td></td>
</tr>
<tr>
<td>ATB401T1N-12 or -24</td>
<td>40mm</td>
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<tr>
<td>ATB401T1F-12 or -24</td>
<td>40mm / Position Feedback Sensor</td>
<td></td>
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</table>

### ATB T2 Series

- 12 or 24 VDC
- 45mm to 65mm Bore Size
- Packard Connector

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATB452T2N-12 or -24</td>
<td>45mm</td>
<td></td>
</tr>
<tr>
<td>ATB452T2N2-12 or -24</td>
<td>45mm / Mechanical Position Indicator</td>
<td></td>
</tr>
<tr>
<td>ATB452T2N14-12 or -24</td>
<td>45mm / High Temperature / Sealed</td>
<td></td>
</tr>
<tr>
<td>ATB452T2F14-12 or -24</td>
<td>45mm / Position Feedback Sensor / High Temperature / Sealed</td>
<td></td>
</tr>
<tr>
<td>ATB552T2N-12 or -24</td>
<td>55mm</td>
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</tr>
<tr>
<td>ATB552T2N2-12 or -24</td>
<td>55mm / Mechanical Position Indicator</td>
<td></td>
</tr>
<tr>
<td>ATB552T2N14-12 or -24</td>
<td>55mm / High Temperature / Sealed</td>
<td></td>
</tr>
<tr>
<td>ATB552T2F14-12 or -24</td>
<td>55mm / Position Feedback Sensor / High Temperature / Sealed</td>
<td></td>
</tr>
<tr>
<td>ATB652T2N-12 or -24</td>
<td>65mm</td>
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<tr>
<td>ATB652T2N2-12 or -24</td>
<td>65mm / Mechanical Position Indicator</td>
<td></td>
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<tr>
<td>ATB652T2N14-12 or -24</td>
<td>65mm / High Temperature / Sealed</td>
<td></td>
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<tr>
<td>ATB652T2F14-12 or -24</td>
<td>65mm / Position Feedback Sensor / High Temperature / Sealed</td>
<td></td>
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</tbody>
</table>

### ATB T3 Series

- 12 or 24 VDC
- 75mm Bore Size
- Packard Connector

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATB753T3N4-12 or -24</td>
<td>75mm / Sealed</td>
<td></td>
</tr>
<tr>
<td>ATB753T3N24-12 or -24</td>
<td>75mm / Mechanical Position Indicator / Sealed</td>
<td></td>
</tr>
<tr>
<td>ATB753T3N14-12 or -24</td>
<td>75mm / High Temperature / Sealed</td>
<td></td>
</tr>
<tr>
<td>ATB753T3F14-12 or -24</td>
<td>75mm / Position Feedback Sensor / Sealed High Temperature</td>
<td></td>
</tr>
</tbody>
</table>
GAC's Pump Mounted Actuators are field proven proportional actuators designed to mount directly to fuel injection pumps to achieve an integrated proportional servo fuel package. Since the design has no sliding parts and its components are sealed; outstanding reliability results with no maintenance required.

### ATB T4 Series

- 24 VDC
- 85mm to 120mm Bore Size
- Packard Connector
- High Temperature

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATB85T4N14-24</td>
<td>85mm / Sealed / High Temp 95mm / Sealed / High Temp</td>
<td></td>
</tr>
<tr>
<td>ATB85T4F14-24</td>
<td>85mm / Sealed / Position Feedback Sensor 95mm / Sealed / Position Feedback Sensor</td>
<td></td>
</tr>
</tbody>
</table>

### 100 Series

- For Stanadyne ‘D’ Series Pumps
- For Delphi DPG Pumps
- 12 or 24 VDC

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADC100-12 or -24</td>
<td>Stanadyne ‘D’ Series Pump / Commercial Connector 95mm / Sealed / Mechanical Position Indicator</td>
<td></td>
</tr>
<tr>
<td>ADD103B-12 or -24</td>
<td>Delphi DPG / DP210G Pumps / Packard Connector / Mating Connector 110mm / Sealed / Mechanical Position Indicator</td>
<td></td>
</tr>
</tbody>
</table>

### 275 Series

- Bosch ‘P’ 3000 - 7000 Fuel Injection Pump
- Controls Pumps on Engines up to 12-Cylinders
- Manual Shut-Off Mechanism

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACB275H</td>
<td>Multi VDC / MIL Connector 85mm to 120mm Bore Size</td>
<td></td>
</tr>
<tr>
<td>ACE275H-24</td>
<td>24 VDC / Packard Connector 85mm to 120mm Bore Size</td>
<td></td>
</tr>
<tr>
<td>ACE275HD-24</td>
<td>24 VDC / Packard Connector / Heavy Duty Bearing Retention 95mm to 120mm Bore Size</td>
<td></td>
</tr>
<tr>
<td>ACE275J-24</td>
<td>24 VDC / High Torque Return Spring with Oil Drain Fitting 95mm to 120mm Bore Size</td>
<td></td>
</tr>
<tr>
<td>ACE275K</td>
<td>24 VDC / Heavy Duty Bearing Retention / Packard Connector / Position Feedback Sensor 95mm to 120mm Bore Size</td>
<td></td>
</tr>
</tbody>
</table>

### 175/176 Series

- For Bosch ‘P’ and ‘A’ Pumps
- Connects Directly to the Fuel Rack
- Manual Shut-Off Mechanism
- 12 or 24 VDC

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADD175A-12 or -24</td>
<td>Bosch ‘P’ Pump / Packard Connector 95mm / Sealed / Mechanical Position Indicator</td>
<td></td>
</tr>
<tr>
<td>ADE175A-12 or -24</td>
<td>Bosch ‘P’ Pump / Packard Connector with Mating Connector 95mm / Sealed / Mechanical Position Indicator</td>
<td></td>
</tr>
<tr>
<td>ADD176A-12 or -24</td>
<td>Bosch ‘A’ Pump / Left Hand Rack / Packard Connector 110mm / Sealed / Mechanical Position Indicator</td>
<td></td>
</tr>
<tr>
<td>ADE176AA-12 or -24</td>
<td>Bosch ‘A’ Pump / Left Hand Rack / Packard Connector with Mating Connector / Cold Start Assist Solenoid 110mm / Sealed / Mechanical Position Indicator</td>
<td></td>
</tr>
</tbody>
</table>

### 295 Series

- Bosch ‘P’ 9 and 10 Pumps
- Control Pumps on Engines up to 16 Cylinders
- 24 VDC

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACE295-24</td>
<td>Packard Connector 85mm to 120mm Bore Size</td>
<td></td>
</tr>
<tr>
<td>ACE295F-24</td>
<td>Packard Connector / Position Feedback Sensor 85mm to 120mm Bore Size</td>
<td></td>
</tr>
</tbody>
</table>
GAC's Engine Mounted Actuators exhibit a high quality construction design for high temperature applications and are uniquely optimized to outperform externally mounted electric actuators and other competitive designs. Since GAC's fast responding fuel control design has no sliding parts and its components are sealed; outstanding reliability results with no maintenance required.

**110 Series**
- For Deutz 1011 Engines
- For 2, 3, and 4 Cylinder.
- 12 or 24 VDC

ACD110-12 or -24 Deutsch Connector
ACE110-12 or -24 Deutsch Connector with Mating Connector

**180 Series**
- 12 or 24 VDC
- Deutz 1012/1013 & 2012 Engines
- Volvo 520/720 Engines

ADD180G-12 or -24 Packard Connector with Mating Connector

**ALR Series**
- Pull Electrical Linear Actuators
- Mounts Directly to Engine's Fuel Pump
- Utilizes Precision Linear Ball Bearings instead of Bushings

ALR160-S03-12 or -24 12 or 24 VDC / Spade Connector / Shibaura Series
ALR190-I03-12 or -24 12 or 24 VDC / Spade Connector / Isuzu L-Series 3LB1 3LD1 3LD2 4LE1 4LE2
ALR190-K04-12 or -24 12 or 24 VDC / Packard Connector / Kubota Super 5 Series D905, D1005, D1105, D1105-T, V1305, V1505, V1505-T 3300 Series 3800
ALR190-KM03-12 or -24 12 or 24 VDC / Packard Connector / M03 Engines
ALR190-KV2403-12 or -24 12 or 24 VDC / Packard Connector / V2403 Engines
ALR190-KV3073-12 or -24 12 or 24 VDC / Packard Connector / V3073 Engines
ALR190-KV3307-12 or -24 12 or 24 VDC / Packard Connector / V3307 Engines
ALR190-M04-12 or -24 12 or 24 VDC / Packard Connector / Mitsubishi L-Series L2E L3E, S3L Series S3L, S4L Series S4L S4L2
ALR190-P04-12 or -24 12 or 24 VDC / Packard Connector / Perkins 404 700
ALR190-Y04-12 or -24 12 or 24 VDC / Packard Connector / Yanmar TNV Series 2TNV70 3TNV70 3TNV76 3TNV82A 3TNV84 3TNV84T 3TNV88 4TNV84 4TNV94L 4TNV98 4TNV98T / Isuzu C-Series 2CA 3CA 3CB 3CD 3CDT
GAC’s Universal actuators are proportional electro servo designed for mechanical actuation of fuel system control levers. They exhibit GAC’s uniquely optimized fuel control and will outperform externally mounted electric actuators. GAC’s sealed integral actuators are simple to install and possess no sliding parts, resulting in outstanding reliability and no maintenance required.

### 104 Series
- Briggs & Stratton Engines
- Kohler 12 - 30 HP Engines
- < 25 msec Response
- Environmentally Sealed

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Torque</th>
<th>Terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADD104-12</td>
<td>12 VDC</td>
<td>0.29 lb-ft Torque</td>
<td>Male Spade Terminals</td>
</tr>
</tbody>
</table>

### 120 Series
- Rotary Actuators
- Sized for Engines up to 150 hp
- 1.0 lb-ft Torque
- For Small Inline Fuel Pumps or Carburetors

<table>
<thead>
<tr>
<th>Model</th>
<th>Connector</th>
<th>Rotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACB120</td>
<td>Multi VDC / MIL Connector</td>
<td>25°</td>
</tr>
<tr>
<td>ADB120</td>
<td>Multi VDC / MIL Connector</td>
<td>25°</td>
</tr>
<tr>
<td>ADB120E4</td>
<td>Multi VDC / MIL Connector / Fuel Metering / Cummins PT Fuel System</td>
<td></td>
</tr>
<tr>
<td>ADC120S-12 or -24</td>
<td>12 or 24 VDC / Commercial Connector / 25° Rotation / Serrated Shaft</td>
<td></td>
</tr>
</tbody>
</table>

### 225 Series
- 2.2 lb-ft Torque
- 25° Rotation
- < 45 msec Response
- For Multi-Plunger Fuel Pumps & Carburetors

<table>
<thead>
<tr>
<th>Model</th>
<th>Connector</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADB225</td>
<td>Multi VDC / MIL Connector / Diecast Housing</td>
<td></td>
</tr>
<tr>
<td>ADB225S-12 or -24</td>
<td>12 or 24 VDC / Commercial Connector / Serrated Shaft</td>
<td></td>
</tr>
<tr>
<td>ADC225GS-12 or -24</td>
<td>12 or 24 VDC / Commercial Connector / Serrated Shaft / Lesser Rate Return Spring</td>
<td></td>
</tr>
<tr>
<td>ADC225GAS-24</td>
<td>24 VDC / Commercial Connector / Serrated Shaft / Lesser Rate Return Spring / Extended Stop</td>
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</tr>
<tr>
<td>ADC225JS-12 or -24</td>
<td>12 or 24 VDC / Commercial Connector / Serrated Shaft / Greater Rate Return Spring</td>
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</tr>
<tr>
<td>ADC225KS-12 or -24</td>
<td>12 or 24 VDC / Commercial Connector / Serrated Shaft / High Temperature Applications</td>
<td></td>
</tr>
</tbody>
</table>

### 335 Series
- 2.80 lb-ft Torque
- 75° Rotation
- Spring Return for Safety
- Optional Feedback Sensor

<table>
<thead>
<tr>
<th>Model</th>
<th>Connector</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADB335-24</td>
<td>24V / MIL Connector / 75° Rotation</td>
<td></td>
</tr>
<tr>
<td>ADB335F-24</td>
<td>24V / MIL Connector / 75° Rotation / Position Feedback Sensor</td>
<td></td>
</tr>
</tbody>
</table>

### ALN Series
- Push Linear Actuators
- High Quality Antifriction Bearings
- Replaces Competitive Models
- 22mm Stroke

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Torque</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALN025-12 or -24</td>
<td>12 or 24 VDC / 0.25 ft.lb. / Spade Connector</td>
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<tr>
<td>ALN050-12 or -24</td>
<td>12 or 24 VDC / 0.50 ft.lb. / Spade Connector</td>
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### 2001 Series
- Rotary Actuator
- 12.0 lb-ft Torque
- < 80 msec Response
- Sized for engines from 400 - 1800 hp

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Torque</th>
<th>Features</th>
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</thead>
<tbody>
<tr>
<td>ACB2001</td>
<td>24 VDC</td>
<td>12.0 Max lb-ft Torque</td>
<td>35° Rotation</td>
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### Accessories - Actuators

#### Installation Kits

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>KT130</td>
<td>ALN Series Actuators</td>
</tr>
<tr>
<td>KT175-RS-R</td>
<td>ADD175 Series / Bosch 'A' Pump / Right Hand Rack</td>
</tr>
<tr>
<td>KT176A</td>
<td>ADE176A Series - Bosch 'A' Pump</td>
</tr>
<tr>
<td>KT231J</td>
<td>Bosch RSV - Left Side - Used With ALN050</td>
</tr>
<tr>
<td>KT232J</td>
<td>Bosch RSV - Right Side</td>
</tr>
<tr>
<td>KT275</td>
<td>ACB275 - Bosch 3000 Pump / Camshaft Bearing Kit</td>
</tr>
<tr>
<td>KT276</td>
<td>ACB275 - Bosch 7000 Pump / Camshaft Bearing Kit</td>
</tr>
<tr>
<td>KT278</td>
<td>ACB275 Actuators - RB RP21 with RB Plate</td>
</tr>
<tr>
<td>KT278-1</td>
<td>ACB275 Actuators - RP21</td>
</tr>
<tr>
<td>KT283</td>
<td>ACD175 BYC 'P' Pump</td>
</tr>
<tr>
<td>KT295</td>
<td>ACE295 Actuators</td>
</tr>
<tr>
<td>KT289</td>
<td>ADD175 - Bosch 'P' Pump / Governor Only</td>
</tr>
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</table>

#### Service Items

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>GA102</td>
<td>Mounting Gasket for 100 Series</td>
</tr>
<tr>
<td>HW13-001</td>
<td>5 Star Torx Bit / Stanadyne</td>
</tr>
<tr>
<td>KT6724</td>
<td>Fuel Valve Only / ADB120E4</td>
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#### Mating Connectors

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC1000</td>
<td>Actuator Straight / Military Style Connector</td>
</tr>
<tr>
<td>EC1010</td>
<td>Actuator 90° / Military Style Connector</td>
</tr>
<tr>
<td>EC1120</td>
<td>110 Series - Mating Half</td>
</tr>
<tr>
<td>EC1300</td>
<td>Packard - Electric Actuator</td>
</tr>
<tr>
<td>EC1515</td>
<td>AB Feedback Sensor Mating Half Connector</td>
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#### Levers

<table>
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<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>LE1100-3</td>
<td>4.8&quot; - ADC Actuators - 3/16&quot; Holes / Smooth Shaft</td>
</tr>
<tr>
<td>LE1200-3</td>
<td>4.8&quot; - ACB/ADB Actuators - 1/4&quot; Holes / Serrated Shaft</td>
</tr>
<tr>
<td>LE1400-1</td>
<td>4.3&quot; - ACB/ADB Actuators - 3/16&quot; Holes / Serrated Shaft</td>
</tr>
<tr>
<td>LE1400-2</td>
<td>4.3&quot; - ACB/ADB Actuators - 1/4&quot; Holes / Serrated Shaft</td>
</tr>
<tr>
<td>LE1400-4</td>
<td>3.3&quot; - ACB/ADB Actuators - 1/4&quot; Holes / Smooth Shaft</td>
</tr>
<tr>
<td>LE1500-1</td>
<td>4.3&quot; - ADC Actuators - 3/16&quot; Holes / Smooth Shaft</td>
</tr>
<tr>
<td>LE1500-2</td>
<td>4.3&quot; - ADC Actuators - 1/4&quot; Holes / Smooth Shaft</td>
</tr>
<tr>
<td>LE2000</td>
<td>4.4&quot; - ACB2001 - M8 Holes</td>
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</table>

#### Threaded Rod

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD100</td>
<td>¼ - 28 (Price per Inch of Length)</td>
</tr>
<tr>
<td>RD102</td>
<td>¼ - 28 - Precut to 12&quot;</td>
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#### Bearing Rod Ends

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BR100</td>
<td>3/16&quot; I.D. - 10-32 Thread</td>
</tr>
<tr>
<td>BR101</td>
<td>3/16&quot; I.D. - 10-32 Left Hand Thread</td>
</tr>
<tr>
<td>BR200</td>
<td>1/4&quot; I.D. - 1/4-28 Thread</td>
</tr>
<tr>
<td>BR201</td>
<td>1/4&quot; I.D. - 1/4-28 Left Hand Thread</td>
</tr>
<tr>
<td>BR300</td>
<td>M5 I.D. and Thread</td>
</tr>
<tr>
<td>BR400</td>
<td>M6 I.D. and Thread</td>
</tr>
</tbody>
</table>
Governors

GAC’s Speed Control Units are precise speed controls designed and manufactured in various configurations to meet application requirements using the latest analog and digital control technologies. Reverse battery polarity and fail-safe protection in the event of loss of speed sensor signal or battery voltage is incorporated in every GAC Speed Control Unit. A wide variety of application needs can be satisfied with GAC’s constant or variable speed governing, in isochronous or droop operation. All circuit boards are hard potted or conformally coated to be vibration and moisture resistant.

Digital

GAC digital governors are solid state microprocessor based speed control unit that offer precise (+/- 0.25%) speed control with fast response to transient load changes in isochronous and droop modes. GAC digital governors are highly reliable and not subject to drift. This suitable replacement for any mechanical governor is well built to withstand the harshest of engine environments. Its designed to regulate the engine speed on diesel and gas reciprocating engines for generator sets, mechanical drives, pumps, and compressors.

EDG Series

These governors are based on GAC’s revolutionary EDGe™ algorithm, incorporating all of the features and performance of GAC analog governors along with the stability, accuracy, flexibility and communication capabilities digital controls are known for.

- No Analog Drift
- Variable Speed Governing
- GAC AUX/Load Sharing
- Overspeed Sensing
- Adjustable Starting Fuel Strategy (Black Smoke Reduction)
- Simple LCD User Interface
- Fast Set-up with 5 Push Buttons, No Potentiometers
- A Near Drop in Replacement for ESD5500E
- Multiple PID Control for Full Tuning of Operating Range
- IP67 Sealed Case and Connector
- RS232 and CAN J1939 Communications
- SmartVU PC Software

SDG Series

- Smart Digital Governor
- Three Fixed and 1 Variable Speed
- Overspeed Shutdown Protection
- SmartVU PC Software

SDG514-01-01 (CE) Deutsch Connector / Resistive (10K Potentiometer) Variable Speed Input
SDG524-01-01 (CE) Deutsch Connector / 0-5 VDC Variable Speed Input

EDG Series

EDG5000

EDG6000

EDG6010-DM

SDG Series

NEW!
### ACCESSORIES - GOVERNORS - DIGITAL

#### Cable Harnesses
- CH1330: Cable Harness for the SDG514 / SDG524
- CH1520: Cable Harness for the EDG6000

#### Mating Connectors
- EC1330: Deutsch 12 pos. Mating Connector for SDG514 / SDG524
- EC1502: 14-Pin Mating Connector for EDG6000
- EC1528: Connector Kit for EDG6010-DM

#### Test Equipment
- TSE050: Magnetic Speed Pickup Simulator
- TSE307: EDG6000 Programming Interface

### Analog

#### FUSION Series
Governors America Corp. (GAC) proudly announces the ESD5500-II analog speed controller; the first in GAC's next-generation Fusion Series line of controllers. GAC's Fusion Series updates and merges many of the functions, of GAC’s world recognized ESD controls, into a single versatile control.

- Suitable for Both Gaseous & Diesel Applications
- Selectable Dither Function
- LightForce & Standard Actuators
- LED Indicators

ESD5500-II: Isochronous, Variable & Droop Operation / Speed Ramping / Starting Fuel Control / Enhanced Droop Control / Anti Wind-Up Circuit / Soft Coupling
- Can be used in place of ESD2110, ESD2210, ESD2241, ESD2244, ESD2401, ESD2402, ESD5111, ESD5131, ESD5500E, ESD5520E, ESD5526E, ESD5528E, depending on application.

#### ESD1000 Series
- 12 or 24 VDC
- Isochronous Operation
- Steady State Stability Adjustment
- Reverse Voltage Protected
- Gain Adjustment

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESD1000-12 or -24</td>
<td>(CE) Standard Unit, Wire Leads</td>
</tr>
<tr>
<td>ESD1100-12 or -24</td>
<td>(CE) Terminal Strip</td>
</tr>
</tbody>
</table>

#### ESD2100
- 12 or 24 VDC
- Isochronous Operation
- Adjustable PID Fuctions

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESD2110</td>
<td>Multi VDC Standard Unit</td>
</tr>
</tbody>
</table>
ESD2200 Series
- Transient Voltage Protection
- Expanded Speed Range to 9400Hz
- 8:1 Speed Range Control
- Removal Jumpers for Expanded Range
ESD2210-12 or -24 (CE) Hard Potted
ESD2241-24 24 VDC / Hard Potted / Standard Unit with Idle Circuit
ESD2244-12 or -24 (CE) Hard Potted / Light Force

ESD2400 Series
- Dynamic Control Circuit
- Idle Function
- Lower Gain Adjustable
- Anti Wind-Up Circuit
ESD2401-12 or -24 (CE) Standard Unit / Idle Speed Adjustment / Designed for Non-Feedback GAC Actuators
ESD2402-12 or -24 (CE) Light Force / Idle Speed Adjustment / Designed for Non-Feedback GAC Actuators

ESD2400 Series
- 12 VDC
- Adjustable PID Functions
- Foot Pedal
ESD2349-12 (CE) 12 VDC / Off Road / Variable Speed / Foot Pedal
ESD2351-12 12 VDC / Operates with Williams Foot Pedal
ESD2352-12 12 VDC / Operates with Morse Foot Pedal

ESD5100 Series
- 10 VDC Supply for Accessories
- Adjustable PID Functions
- Switchable Droop and Idle Control
- Auxiliary Power Supply
ESD5111 (CE) Standard Unit / Isochronous, Variable & Droop Operation / Variable Speed Trim Range
ESD5111T (CE) Temperature Compensated / Isochronous, Variable & Droop Operation / Dead Time Compensation
ESD5119 (CE) EFC Reverse Acting / Isochronous, Variable & Droop Operation / Adjustable Droop Range / Light Force
ESD5120 (CE) Light Force / Isochronous, Variable & Droop Operation
ESD5131 (CE) Soft Coupling and Lead Circuit Option / Isochronous, Variable & Droop Operation
ESD5150 Same As ESD5111 / 4-20 mA Output
ESD5160 Same as ESD5119 / Extended Speed Range
ESD5161 (CE) Expanded Auxiliary Input Range

ESD5300 Series
- Power Driver Circuit for 2001
- Dual Gain (Idle, Operating)
- 2 Element Speed Switch
- Auxiliary Input +10V Supply
ESD5330 Isochronous, Variable & Droop Operation / 2 Element Speed Switch / Speed Ramping / Starting Fuel Control / Dual Gain / Unique Actuator Power Drive Circuit / Soft Coupling
ESD5340 Full Fuel at Crank / Isochronous, Variable & Droop Operation / 2 Element Speed Switch / Speed Ramping / Starting Fuel Control / Dual Gain / Unique Actuator Power Drive Circuit / Soft Coupling

ESD5400 Series
- Adjustable PID Functions
- Actuator Loop Control
- Two Speed or Variable Speed
- Overspeed Control
ESD5402 24 VDC / Isochronous, Variable & Droop Operation / Designed for Feedback Actuator Operation
ESD5403 Use with AB Sensor Feedback Actuators / Isochronous, Variable & Droop Operation / Designed for Feedback Actuator Operation
**ESD5500E Series**

- Start Fuel/Speed Ramp Control
- Switchable Droop Control
- Soft Coupling (all) & Lead Circuit
- Auxiliary Input +10V Supply

ESD5500E (CE) Standard Unit / Isochronous, Variable & Droop Operation / Speed Ramping / Starting Fuel Control / Adjustable Speed Ramping Control

ESD5520E (CE) Light Force / Isochronous, Variable & Droop Operation / Speed Ramping / Starting Fuel Control / Adjustable Speed Ramping Control


ESD5526E (CE) For use with Small Bore T1 & T2 ATB Gas Applications / Anti Wind-Up Circuit / Isochronous, Variable & Droop Operation / Speed Ramping / Starting Fuel Control

ESD5528E (CE) For use with Large Bore T3 & T4 ATB Gas Applications Anti Wind-Up Circuit / Isochronous, Variable & Droop Operation / Speed Ramping / Starting Fuel Control

**ESD5550/5570 Series**

- Overspeed with LED & Reset / Test
- Fuel Ramping Control
- Auxiliary Input +10V Supply

ESD5550 (CE) Single Element Speed Switch / Isochronous, Variable & Droop Operation / Speed Ramping / Starting Fuel Control / Soft Coupling / Gain Adjustment 33:1 / Transient Voltage Protection

ESD5553 (CE) Standard Unit / Isochronous, Variable & Droop Operation / Speed Ramping / Starting Fuel Control / Enhanced Droop Control / Load Sharing Interface / Overspeed Switch

ESD5570 (CE) Single Element Speed Switch / Light Force / Isochronous, Variable & Droop Operation / Speed Ramping / Starting Fuel Control / Soft Coupling

**ESC Series**

- Electronic Speed Control
- Wide Range Speed Control Units
- 12 - 32 VDC

ESC61C-7 Standard Unit / MIL Connector

ESC63C-7 Standard Unit / Terminal Strip

ESC63C-23 Terminal Strip / Idle-Run Feature / 12-32 VDC

**ECC Series**

- Isochronous Speed Control
- Full PID Setting
- Designed to Govern from Frequency Signal of an AC Generator
- No Magnetic Speed Pickup Needed

ECC328-12 (CE) 12 VDC / Light Force

**SSW Series**

- 12 or 24 VDC Operation
- Reverse Voltage Protection
- Overspeed Test Function

SSW674 One Element (Overspeed) / Speed Switch / Tachometer Output with Adjust / Factory Adjusted For Most Applications

xxx- Two Element (Overspeed/Crank) / Speed Switch / Tachometer Output with Adjust / Overspeed to 10000Hz

SSW676 Three Element (Overspeed/Crank/Parallel) / Speed Switch / Tachometer Output with Adjust
### Modules

- **RSC671**: Speed Ramp Controller - Ramp Up / Down with Speed Range / Variable Control
- **RSC672**: Speed Ramp Controller - Ramp Up / Down Generator Set Applications
- **DDM101**: Dual Driver Module
- **DFM100**: Dual Fuel Module

### Foot Pedals

- **FP201**: Williams Foot Pedal / Vertical Mount
- **FP202**: Williams Foot Pedal / Horizontal Mount

### Mating Connector

- **EC1200**: ESC61C - Straight

### Potentiometers

- **TP501**: 1 Turn - 5K with Knob
- **TP502**: 10 Turn - 5K with Knob
- **TP503**: 10 Turn - 5K with Locking Shaft
- **TP504**: 1 Turn - 20K with Knob / Droop Control
- **TP508**: 10 Turn - 20K with Locking Shaft
- **TP509**: 10 Turn - 20K with Knob
- **TP510**: 10 Turn - 1K
- **TP511**: 10 Turn - 10K
- **TP521**: Multiple Variable Speed Control / Vernier Dial

### Test Equipment

- **TSE050**: Magnetic Speed Pickup Simulator
### Magnetic Speed Pickups

#### 3/8 - 24 UNF Threaded
- MSP6729 6’ Shielded Cable / 2.5”
- MSP6730 6’ Shielded Cable / 1.5”
- MSP6731 6’ Shielded Cable / 4”
- MSP6742 1’ Shielded Cable / 2.7”

#### 3/4 - 16 UNF Threaded
- MSP674 3.5” With 3” Leads / Automotive Connector
- MSP674C 3.5” With 3” Leads / Automotive Connector / Mating Half Connector
- MSP6734 3.5” With 4” Leads
- MSP6735 3.5” With 3” Leads / Packard Connector
- MSP6744 2.29” With 8/32 Stud Terminals / 1200 Ohms

#### 5/8 - 18 UNF Threaded
- MSP674 3” Without Mating Half Connector / High Output
- MSP675 3” With 12” Leads
- MSP676 5” With 12” Leads
- MSP677 3” Without Mating Half Connector / Military Style Connector
- MSP678 5” Without Mating Half Connector / Military Style Connector
- MSP679 3” Mating Half Connector / Weather Boot / Military Style Connector
- MSP6710 5” Mating Half Connector / Weather Boot / Military Style Connector
- MSP6719 2.375” With 12” Leads
- MSP6720 4” With 6” Leads
- MSP6721 3” With 3” Leads / Automotive Connector
- MSP6721C 3” With 3” Leads / Automotive Connector with Mating Half Connector
- MSP6728 3” With 10” Leads / Packard Connector
- MSP6728C 3” With 10” Leads / Packard Connector with Mating Half Connector
- MSP6732 3” With 4” Leads / Dual Output / Dual Packard Connectors
- MSP6732C 3” With 4” Leads / Dual Output / Dual Packard Connectors with Mating Half Connector
- MSP6743 3.75” With 8/32 Stud Terminals / 1200 Ohms

#### M16 x 1.5 Threaded
- MSP6714 3” Without Mating Half Connector / Military Style Connector
- MSP6715 3” With Mating Half Connector / Weather Boot / Military Style Connector
- MSP6723 3” With 3” Leads / Automotive Connector
- MSP6723C 3” With 3” Leads / Automotive Connector / Mating Half Connector
- MSP6745 6” Without Mating Half Connector / Military Style Connector

#### M18 x 1.5 Threaded
- MSP6741 3.25” With 9” Leads / Metri-Pack Connector
ACCESSORIES - MAGNETIC SPEED PICKUPS

**Cable Harnesses**

- CH1204  MSP677/678 - 10' Shielded - Straight Connector (MIL)
- CH1205  MSP677/678 - 10' Shielded - 90° Connector
- CH1206  MSP6721/6724 and ADC Actuators - 4' Unshielded
- CH1207  MSP6721/6724/6723 - 10' Shielded (Automotive)
- CH1208  MSP675 - 10' Shielded
- CH1211  MSP677/678 - 27' Shielded - Straight Connector (MIL)
- CH1219  Packard - Sensors Mating Half - 10' Shielded

**Mating Connectors**

- EC1100  MSP677 with Straight Cable Clamp & Weather Boot
- EC1110  MSP677 with 90° Cable Clamp
- EC1350  Mating Packard Speed Sensor
- EC1518  Mating Connector for MSP6741
**Generator Accessories**

### Load Sharing and Synchronizing

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAM100</td>
<td>Load Anticipation Module / Hard Potted</td>
</tr>
<tr>
<td>LSM100</td>
<td>Isochronous Load Sharing / Load Anticipation / Droop</td>
</tr>
<tr>
<td>LSM201N</td>
<td>24 VDC / Isochronous Load Sharing / Power Monitors / Power Ramping</td>
</tr>
<tr>
<td>LSM201</td>
<td>(CE) 24 VDC / Isochronous Load Sharing / Power Monitors / Power Ramping</td>
</tr>
<tr>
<td>LSM672N</td>
<td>24 VDC / Isochronous Load Sharing / Forward-Reverse Power Monitors / Extra Filtering</td>
</tr>
<tr>
<td>LSM672</td>
<td>(CE) 24 VDC / Isochronous Load Sharing / Forward-Reverse Power Monitors</td>
</tr>
<tr>
<td>SYC6714</td>
<td>(CE) Multi VDC / Automatic Synchronizer With Sync Check Relay</td>
</tr>
</tbody>
</table>

- All Electric Sensing
- Accurately Measures True Power
- Load Anticipation and Droop Adjustment
- Small Compact Size

### Interface Modules

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAM100</td>
<td>Cummins EFC</td>
</tr>
<tr>
<td>EAM101</td>
<td>B.C. Dyna 1 &amp; 8000 / 24 VDC</td>
</tr>
<tr>
<td>EAM101-12</td>
<td>B.C. Dyna 1 &amp; 8000 / 12 VDC</td>
</tr>
<tr>
<td>EAM103</td>
<td>B.C. Load Sharing to GAC Speed Control Units</td>
</tr>
<tr>
<td>EAM104</td>
<td>DDEC 3 Controller</td>
</tr>
<tr>
<td>EAM105</td>
<td>GAC Load Sharing To Heinemann KG6-04/10-04</td>
</tr>
<tr>
<td>EAM106</td>
<td>Cummins Digital (3081313)</td>
</tr>
<tr>
<td>EAM107</td>
<td>KCL (3873583)</td>
</tr>
<tr>
<td>EAM108</td>
<td>Woodward (8290-038) / 12VDC</td>
</tr>
<tr>
<td>EAM108-12</td>
<td>Woodward (8290-038) / 24VDC</td>
</tr>
<tr>
<td>EAM110</td>
<td>Cummins ST30</td>
</tr>
<tr>
<td>EAM111</td>
<td>MTU M-DEC</td>
</tr>
<tr>
<td>EAM113</td>
<td>CAT HEUI</td>
</tr>
<tr>
<td>EAM114-12 or -24</td>
<td>Deutz EMR - 12 or 24 VDC</td>
</tr>
<tr>
<td>EAM115</td>
<td>Perkins 1306-E87 7M351</td>
</tr>
<tr>
<td>EAM116</td>
<td>Universal / 1.2x0-5VDC, 1x0-10VDC, 1x4 20mA / 0.0-5VDC</td>
</tr>
<tr>
<td>EAM120-12 or -24</td>
<td>Woodward 2302A / 12 or 24 VDC</td>
</tr>
<tr>
<td>EAM121-24</td>
<td>Woodward Load Sharing &amp; Synchronizing - GAC Including DEC2 / 12 or 24VDC</td>
</tr>
<tr>
<td>EAM122-12</td>
<td>Volvo EMS / 12 VDC</td>
</tr>
<tr>
<td>EAM122-24</td>
<td>Volvo EMS / 24 VDC</td>
</tr>
<tr>
<td>EAM125</td>
<td>Deutz Position Interface Module</td>
</tr>
<tr>
<td>EAM126</td>
<td>Voltage / Current Interface Module</td>
</tr>
<tr>
<td>EAM127-24</td>
<td>Interface Module Scania S6 (EMS) EFI SY / 24 VDC</td>
</tr>
<tr>
<td>EAM131</td>
<td>Universal / 0-5VDC, 0-10VDC, 4-20mA Inputs / 0-5 VDC Output</td>
</tr>
<tr>
<td>EAM208</td>
<td>Variable Speed DC Generator Control / Integrated Current Transformer / 200 Amp</td>
</tr>
<tr>
<td>EAM209</td>
<td>Universal / 70% Duty Cycle</td>
</tr>
<tr>
<td>EAM210</td>
<td>CAT / Cummins / 100% Duty Cycle</td>
</tr>
<tr>
<td>PCI105</td>
<td>50-60 Hertz Module</td>
</tr>
<tr>
<td>PRC100A</td>
<td>Generator Power Ramping Control</td>
</tr>
<tr>
<td>VMA100</td>
<td>Generator Voltage Matching Module</td>
</tr>
</tbody>
</table>

- Multi Voltage Units
- Adjustable PID
- Idle Speed Adjustment
- Auxiliary Accessory Inputs

### Voltage Regulators

- Regulation Accuracy ±0.5% Steady State
- Low Voltage Build-Up, 6VAC
- Over Voltage and Internal Fuse Protection

<table>
<thead>
<tr>
<th>Model</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CVR63-4R</td>
<td>Commercial Voltage Regulator / 4A 63V Field</td>
</tr>
<tr>
<td>CVR63-6</td>
<td>Commercial Voltage Regulator / 6A 63V Field</td>
</tr>
</tbody>
</table>
GAC’s low-cost JDR series of J1939 data readers allow users to monitor trouble codes and standard engine parameters. More advanced models support Tier IV engines with diesel particulate filters. Harsh applications are no match for JDR’s rugged design. With installation and setup a breeze, users will be monitoring engine vital signs and configuring parameters in no-time.

- **JDR050**: J1939 Diagnostic Trouble Code Reader
- **JDR050-IV**: J1939 Diagnostic Trouble Code Reader / Tier IV DPF Regen Control Capability
- **JDR100**: J1939 Diagnostic Trouble Code Reader / 6 Live Engine Parameters
- **JDR100-IV**: J1939 Diagnostic Trouble Code Reader / 7 Live Engine Parameters / Tier IV DPF Regen Control Capability

- Wide Temperature Range
- Built-in CAN bus Termination Resistor
- Self Contained, No Configuration Software Required
- Customizable Overlay with OEM Logos

---

**ECA - Analog to CAN Adapter**

- Converts Analog Inputs and Outputs J1939 Messages for Non-Electronic Engines
- Standard Messages for: Oil Pressure, Coolant Temp, Fuel Engine Speed and Fuel Level Outputs
- Outputs Diagnostic Trouble Codes (DTC)
- OEM Definable Messages and Sender Curves

- **ECA100**: 4 Resistive Inputs / Ground Sense / Mag Speed Pickup / +5VDC
ACCESSORIES - INSTRUMENTATION

**Cable Harness**

CH417-4572  JDR / 15' Cable Harness / Mating Connector / Built-in CAN bus Termination Jumper

**Mating Connector**

EC1331  Deutsch DT06-6S Mating Connector, Pins / Plugs for the JDR
The Air-Fuel Ratio (AFR) 200 Series and the Ignition Control Module (ICM) 200 Series controllers are part of GAC’s comprehensive Fuel and Ignition Management System (FIMS) for gaseous-fueled, spark-ignited engines. The AFR200 performs closed-loop air-fuel ratio control using an exhaust oxygen sensor for feedback, in addition to providing a built-in engine speed governor with GAC’s proprietary EDGE algorithm. Easy to configure, simple to install, and built for the extreme environments of industrial engines; GAC’s AFR200 series delivers. When coupled with the Ignition Control Module (ICM) 200 series controller, the combination forms the FIMS500 platform.

**AFR200 Series**

- AFR200: One Oxygen Sensor Input
- AFR201: Two Oxygen Sensor Inputs
- AFR210: One Oxygen Sensor Input and EGT (Type-K) Input
- AFR211: Two Oxygen Sensor Inputs and EGT (Type-K) Input

**Manifold Absolute Pressure Sensors**

- SPM200-1B: MAP, 1-Bar
- SPM201-2B: MAP, 2-Bar
- SPM202-3B: MAP, 3-Bar

**Venturi Mixers Only**

- MX30: 30mm Mixer
- MX50: 50mm Mixer
- MX60: 60mm Mixer
- MX75: 75mm Mixer
- MX85: 85mm Mixer

**Zero Pressure Gas Regulators**

- RPR102: 3/4” Fittings / 1 PSI Maximum
- RPR103: 1” Fittings / 1 PSI Maximum
- RPR104: 1” Fittings / 5 PSI Maximum
- RPR105: 1.5” Fittings / 5 PSI Maximum

**Oxygen Sensors - Feedback**

- SOX102: 12V, 4-Wire, Narrow-Band, With Heater
- SOX103: 12 or 24V, 2-Wire, Narrow-Band, No Heater

**Fuel Valve Only**

- VFC103: In-Line Fuel Control Valve Only

**ICM200 Series**

- ICM200-4: 4 Output Channels Maximum
- ICM200-6: 6 Output Channels Maximum
- ICM200-8: 8 Output Channels Maximum
- ICM200-12: 12 Output Channels Maximum

**Timing Trigger Wheels**

- GR104: 24-1, 68mm, Trigger Wheel

**Engine Position Sensors**

- SCI100: Variable Reluctance / 90° Connector
- SCI101: Variable Reluctance / Straight Connector
- SCI102: Hall Effect / Pigtail Connector
- SCI103: Hall Effect / 90° Connector

**Spark Plugs & Wires**

- SPG100-002: Spark Plug / Turbocharge Lean Burn or Stoichiometric Application
- SPW100: Single Ignition Wire Lead, Performance

**Ignition Coils**

- CL602: Single Output, Sequential Firing
- CL603: Dual Output, Wasted-Spark Firing
### Mating Connector Kits & Harnesses

**AFR200 Series Mating Connector Kits & Harnesses**
- EC1501 AFR200 Series, Connector 1, 35-Terminal (All)*
- EC1502 AFR200 Series, Connector 2, 14-Terminal (201/211 Only)
- CH1519 AFR200 Series, Harness Kit, 35-Terminal, Flying Leads (All)
- CH1520 AFR200 Series, Harness Kit, 14-Terminal, Flying Leads (201/211 Only)

**MX Series Fuel Valve Mating Connector Kit**
- EC1507 MX Series Stepper Motor, 4-Terminal*

**ICM200 Series Mating Connector Kit & Harnesses**
- EC1500 ICM200 Series, 35-Terminal
- CH1521 ICM200 Series, Harness Kit, 35-Terminal, Flying Leads*
- CH1522 Basic ICM200-6 Harness, 19-Terminal, Flying Leads

**Manifold Absolute Pressure Sensor Mating Connector Kits**
- EC1509 SPM200-1B, Green, 3-Terminal*
- EC1510 SPM201-2B, Orange, 3-Terminal
- EC1511 SPM202-3B, Black, 3-Terminal

**Oxygen Sensor Mating Connector Kits**
- EC1508 SOX1012, 12V, 4-Terminal*
- EC1520 SOX103, 24V, 2-Terminal

**Engine Position Sensor Mating Connector Kits**
- EC1503 SCI102, 3-Terminal*
- EC1504 SCI100, 2-Terminal
- EC1518 SCI101, 2-Terminal
- EC1519 SCI103, 3-Terminal

**Miscellaneous Component Connector Kits**
- EC1505 Fuse Holder, 2-Terminal
- EC1506 Relay Holder, 5-Terminal*
- EC1516 Serial Port DB9-F, 9-Terminal

**Power Relays**
- RLY02-1009 12V, Normally Open
- RLY02-1011 24V, Normally Open

**Ignition Coil Mating Connector Kits**
- EC1504 CL602, 2-Terminal*
- EC1517 CL601, 3-Terminal

* image shown

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### Lean Burn for the AFR

The GAC KT317WB-AFR, ready to use lean burn adapter kit for the FIMSS00 AFR2XX Series controllers determines how rich or lean an engine is running at any load and compensates for changes in temperature and sensor condition. Performance and operational settings are adjusted and viewed in “real time” using GAC’s SmartVU software.

- Plug and Play Lean Burn Solution for GAC FIMSS00 Fuel Management System
- Wide Band LSU (4.2) Sensor Included
- 0.6 to 1.5 λ Range
- Accurate Wideband to Narrow Band Conversion
- Integrated Dual-Color Status LED (Green/Red)
- Sensor Cable Harnessing Incorporated
- Positive Lock Connectors for All Connections

**Kit Includes:**
- CH1523 EAM212 Lean Burn Adapter Controller Harness
- HW11-025 Installation Spacer, Threaded, for SOX104 O2 Sensor Assembly
- EAM212 Lean Burn Adapter
- SOX104 O2 Sensor Assembly, LSU4.2

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**GASEOUS FUELED SYSTEMS**

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