



AMERICAN GOVERNOR

● **ELIMINATE UNSUPPORTED HARDWARE**

● **MAXIMIZE EFFICIENCY**

● **STANDARD PLC HARDWARE**

● **INTERFACES WITH EXISTING DEVICES**

● **FIELD PROGRAMMABLE**

● **SERIAL PORT AVAILABLE**

3D CAM REPLACEMENT KIT

For Woodward Blade Controllers

If you are still running the “3D Cam” blade control system that came with your governor, chances are you can improve efficiency and avoid costly downtime by retrofitting your proprietary system with a PLC-based system from American Governor. The original Zilog systems were notoriously hard to re-program, so you may be running obsolete curves and losing efficiency as a result.

Our Replacement 3D Cam Kit is a drop-in replacement for the Zilog CPU controller and uses your existing gate, blade and net head (or head / tailwater) signals. No complicated mechanical equipment is required and there is no hydraulic interface. Our kit includes everything you need and our engineers will pre-load your latest Index Test curves, maximizing unit operating efficiency.

Replacement 3D Cam Kit includes:

- PLC-based controller mounted in NEMA 12 enclosure
- Uses existing gate, blade and net head input signals
- Net Head Failure and Control Failure relays
- Stepper motor driver (blade angle)
- Auto/Manual switch and Manual Net Head dial
- Pre-programmed Software (field adjustable):
 - 3D Cam Curve (data provided by customer)
 - Blade Tilt, Blade Lock Logic
 - Input Signal Failure Detection
 - Controller Diagnostics
- Power supply, terminal blocks and mounting hardware
- Pre-wired and factory tested
- Installation and Operation Instructions



Actual configuration may vary

Governor Retrofit Kits Available:

- Solenoid-Operated Pump Unloader Kits and Lead/Lag Operator Panels
- Selsyn Replacement Kits (substitutes 4-20mA transducers, new remote indicators)
- 3D Cam Replacement Kits (eliminates obsolete mechanical and early-digital designs)
- PLC-based Speed Switch Replacement Kits (eliminates auxiliary switches)
- Digital Interface Kits (for remote control of mechanical and analog governors)
- Kidney Loop Oil Filtration Systems

American Governor is committed to supporting all your governors, regardless of manufacturer or model, with parts, field service, technical support, training and engineering for as long as you wish to keep them in service.

Factory Repairs are also Available for other Governor Assemblies:



Aux. Speed Switches



Brake Air Valves



Dashpots



Distributing Valve Plungers & Bushings



Analog Modules



Digital Modules

Regional Offices Serve You Better!

Call today for governor parts, service, training, or technical support.

Governor School is Back!

Every June in Wisconsin. Call your Regional Office for details.

New and Reconditioned Parts Available

American Governor parts meet or exceed OEM standards.

Nagging Governor Problems?

American Governor experts are just a phone call away.

OEM Unsupportive?

American Governor supports all types and styles of hydro governors, produced by any manufacturer.

Have an Emergency? Call Us!

American Governor has a wide variety of governor assemblies and auxiliary systems that can be sent out on short notice to get your unit running.



Wisconsin Training and Repair Facility

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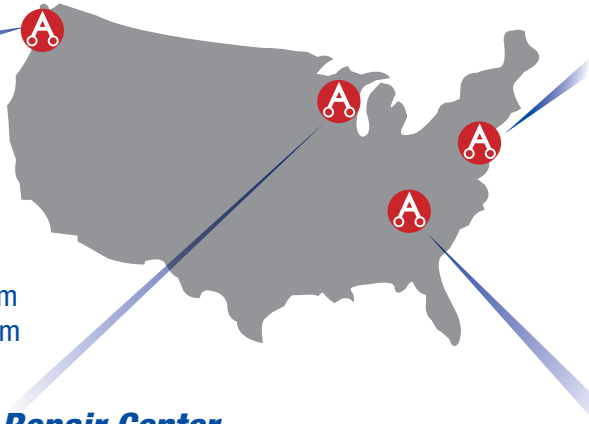
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We Know Governors