

GAC APPLICATION NOTE (all of the components specified are sold separately).

Document Title:	ELECTRONIC GOVERNOR SOLUTION WITH GAC ATB (REF. KT300ATB)
Customer / OEM:	Ford in-line 300 in³ Engine, Natural Gas or Propane
Application(s):	Power Generation, Water Pump, Forklift, others
Engine Make, Model, Displacement	Ford 300 in ³ (4.9 L), 6 cylinders
Equipment Make / Model:	Various
Fuel System Type & Make, Model:	Impco 125 gas carburetor mixer (GAC part no. MX125M-2)
Operating Speed(s):	Idle to 3600 rpm
Battery Voltage:	12 or 24 v
Installed or Recommended Products:	Speed Controller – ESD5159, ESD5526, ESD5500-II or EEG6500 Throttle Body – ATB401T1N-12 or 24 (volts) Magnetic Speed Pickup – MSP6729 Mating Connector – EC1300 5K Potentiometer – TP501 Air Filter (optional) – AIR1-1
Summary:	This a complete Electronic Governing system for the natural gas or propane fueled Ford 300 in ³ in line engine using a Governors America Throttle Body with either a Customer or GAC supplied Impco 125 carburetor- mixer.

FIGURE 1: INSTALLATION NOTES:



LPG and/or natural gas installations on stationary engines must be performed in accordance with federal, state, and local law Failure to abide by the above will void any warranty on the products and may cause serious injury or property damage.

Use an overspeed shutdown device, independent of the governor system, 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.

1. This solution requires a magnetic pickup be added if not already on engine flywheel. See the MSP Sales brochure for details on the available mag pickups
2. See the ATB Installation Manual on the GAC website for installation details.
3. See your speed control installation manual for details on installing and using the speed control unit.

FIGURE 2: MOUNTING MIXER-CARBURETOR ON ATB

The Impco 125 mixer carburetor can be purchased from GAC (MX125M-2) or customer supplied. Use the gaskets included with the carburetor to mount to the ATB.



FIGURE 3: ADDING OPTIONAL AIR FILTER

The optional air filter is recommended but not required.



FIGURE 4: MOUNTING ATB-MIXER ON INTAKE MANIFOLD

The ATB can be directly mounted on the manifold. Ensure the following:

1. ATB Feedback sensor is not resting directly on the manifold.
2. Use the gasket included with the ATB to mount to the manifold.
3. Use the gasket included with the Impco 125 to mount the mixer to the ATB.

