



Smart product innovation here promotes

energy efficiency

reduced fuel consumption

reduced dependence on foreign oil

reduced greenhouse gas emissions

and creates a sustainable future for everyone.

Now, there's a GPS that points you to green.

Energy management solutions from Bendix CVS is like having an onboard environmental analyst to show you the way to reduce fuel consumption and cut emissions. And it's an important step toward future innovation, as we drive toward a common goal: preserving and protecting all that makes our planet great for the next generation of drivers and passengers to enjoy.



Bendix® PBS® Air Injection Engine Booster + Bendix® Electronic Air Control Dryer + Bendix® Turbo-Clutch Air Compressor + Bendix® Wingman® ACB – Active Cruise with Braking + SmarTire™ Tire Pressure Monitoring System (TPMS) by Bendix CVS

These Energy Management Solutions Are Brought To You By Bendix Commercial Vehicle Systems LLC

PBS® Air Injection Booster

Fuel Savings: 1%-3%



- **Elimination of Turbo Lag:** injects air directly into the intake manifold of the engine, communicating with vehicle and engine control units
- **Lower Average Engine Speed:** immediate availability of torque reduces average engine speed; cleaner burn with simpler after-treatment options
- **Downsizing of Engine:** allows the engine to be downsized, greatly enhancing fuel and component savings
- **Part Consolidation:** engine intake throttle function can be integrated into the PBS® air injection unit further improving payback

Bendix® Turbo-Clutch Air Compressor

Fuel Savings: 1%-3%



- Reduces power consumption from engine resulting in improved fuel economy. The compressor is disconnected from the engine drive during the majority of the vehicle operating time.
- Turbocharged air compressor intake results in significantly improved specific power consumption for further improvements to fuel economy
- Reduced overall cycling minimizes normal wear & tear, significantly increasing compressor life
- Minimum footprint clutch adds about 2 lbs of weight and less than 1" to the compressor length
- Combine with Electronic Air Control (EAC) to ensure maximum optimization of the complete air charging system

Bendix® Electronic Air Control (EAC) Dryer

Fuel Savings: .5% - 1%



- Intelligent controlled air charging and air treatment via the integration of air dryer, governor function and multi-circuit protection valves
- Software algorithms turn compressor on and regenerate air dryer desiccant during most energy efficient times of vehicle operating conditions (e.g. vehicle coast and braking conditions where engine torque is near zero).
- Integral solenoids and pressure sensors eliminate separate components typically mounted at various locations on vehicles for further improvement of payback

Bendix® Wingman® ACB – Active Cruise With Braking

Fuel Savings: 2%-10% (depending on current fleet operating practices)



- Bendix Wingman ACB uses a radar sensor mounted to the front of the vehicle to track forward vehicles in the trucks lane of travel, providing drivers alerts and active interventions (when in cruise control) to help drivers maintain a set following distance interval.
- Fleets have found that using Bendix Wingman ACB – Active cruise with braking can help keep their drivers in cruise control longer. Remaining in cruise control for longer periods can help improve fuel economy.
- Data from the system can help fleets develop innovative ways to improve driving practices that enhance safety and increase fuel economy.

SmarTire™ Tire Pressure Monitoring System (TPMS) by Bendix CVS

Fuel Savings: .5%-2% (depending on fleet tire maintenance practices)



- SmarTire provides temperature-compensated tire pressure monitoring, alerting drivers when tire inflation is low, or temperature is high.
- Maintenance technicians can check tire pressure easily from outside the vehicle with a hand-held tool that displays actual tire pressure – helping ease tire pressure checks in the yard.
- Keeping tires at proper inflation levels contributes to improving vehicle fuel economy, reducing emissions and prolonging tire life. A 20% under-inflation can result in up to 2% lower fuel economy and up to 30% shorter tire life. Keeping tires on trucks longer keeps them out of landfills and may contribute to reducing petroleum consumption.

Energy management solutions from Bendix CVS feature components and technologies designed to deliver enhancements in fuel savings, emissions, space/weight savings, vehicle performance, and safety. Discover more about what Bendix has to offer. Talk to your Bendix account manager, call us at 1-800-AIR-BRAKE, or visit www.bendix.com today.

