



Explore our Technologies

eBooster[®]

for commercial vehicles

eBooster®

CHALLENGES FOR COMMERCIAL TRUCKS

- Better fuel economy
- Lower emissions
- Driver enjoyment and productivity



Turbocharged Engine

Challenges (Standard Setup)

- Turbo lag: low rpm engine torque, slow time-to-torque
- Larger engine or higher speed engine used to make up acceptable levels of torque and response
- Fuel economy suffers due to larger or higher speed engine

Turbocharged Engine

Benefits with eBooster®

- Reduced turbo lag: better low rpm engine torque, faster time-to-torque
- Smaller engine or lower speed engine can be used and have acceptable levels of torque and response
- Fuel economy improves due to downsized or lower speed engine

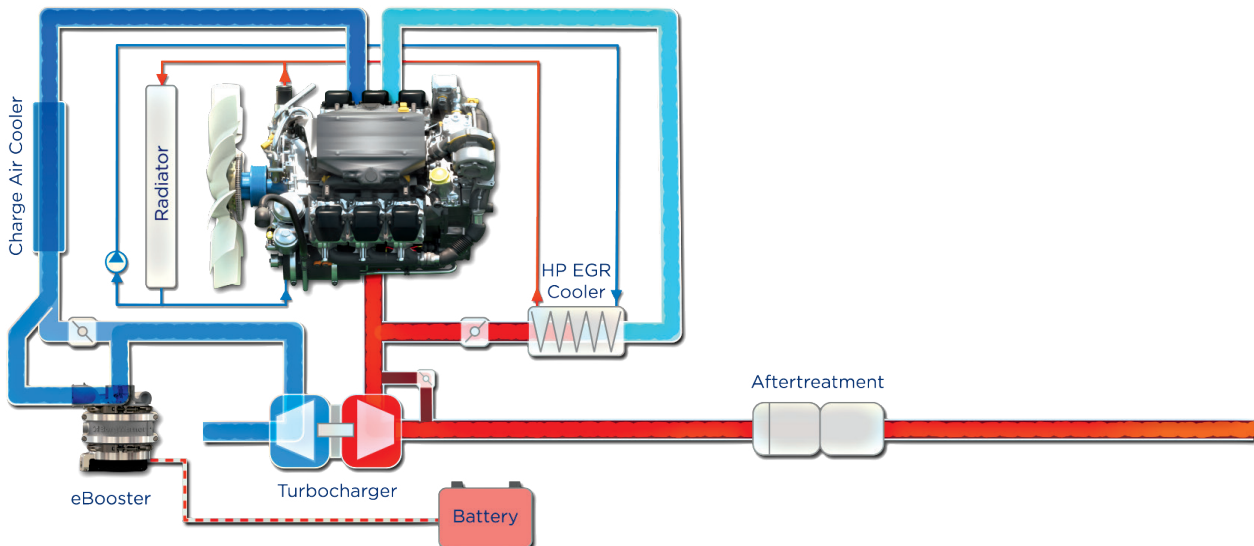
48 V CV eBooster®

How it works

- Makes boost using electrical energy
- An electric motor driving a compressor that provides supplemental boost air to the engine
- Provides engine boost pressure whenever the turbocharger turbine can't
- Due to this extra boost and it being independent of engine speed and load; the device can energize whenever needed and it responds VERY quickly

Specifications

- 100,000 rpm maximum speed
- 2.2 pressure ratio maximum
- 10 kW continuous capability
- 23 kW intermittent capability
- Great for larger engines (> 5 L)
- Permanent-magnet motor
- External power electronics
- Water cooled, no oil supply needed
- Corresponding power electronics controller also available



For Additional BorgWarner
Turbo Systems Information:
turbos.borgwarner.com