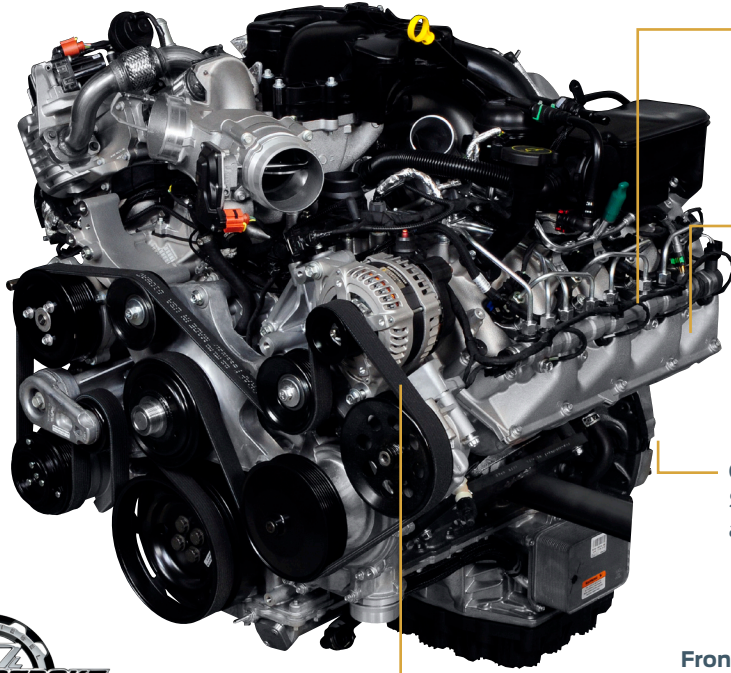




New Power Stroke: More Power, Less Noise

The Ford-engineered and Ford-manufactured new 6.7-liter Power Stroke® V8 turbocharged diesel engine that debuted in the 2011 Ford F-Series Super Duty not only has best-in-class 800 lb.-ft. of torque, 400 horsepower and best-in-class fuel economy, it's also the quietest Power Stroke ever built. Upgraded components and improved systems produce a distinct diesel sound without being overwhelming.

Front View



Quieter idle: The ticking of the high-speed piezo-electric direct fuel injectors is quieted by specially designed covers

Optimized combustion: Piston cylinder bowl optimized for fuel-air mixture. This redesign, combined with new software strategy, creates a smoother, more efficient combustion event – no harsh knocking or banging.

CGI (compacted graphite iron) block: Stronger than cast iron, its stiffness provides a sturdy platform for engine components

Front-end accessories belt: New material helps eliminate belt noise



Rear View

Industry-first turbocharger: Several key noise improvements are tied to the turbocharger, which features an industry-first dual-sided compressor wheel in a single housing.

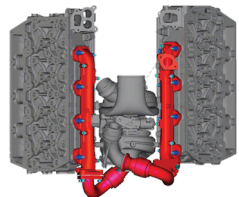
This solution combines the advantages of a small turbocharger (faster response) and a large turbocharger (ability to compress and force more air into the engine for more power) in one unit.

The turbocharger is bolted directly to the block, which helps eliminate vibration found in engines that attach the turbo to the exhaust.

This solution eliminates air-handling noises (“whooshes”) found in sequential turbochargers.



Industry-first intake and exhaust: The new Power Stroke uses unique inboard exhaust and outboard intake architecture, which reduces overall volume of engine plumbing by about 50 percent compared with the outgoing engine. Fewer pipes benefits the customer with less noise and better throttle response.



The **down pipe** features dual-wall construction. The outer wall acts as an insulator, keeping harsh pressure-related noise from the turbocharger away from the customer.

