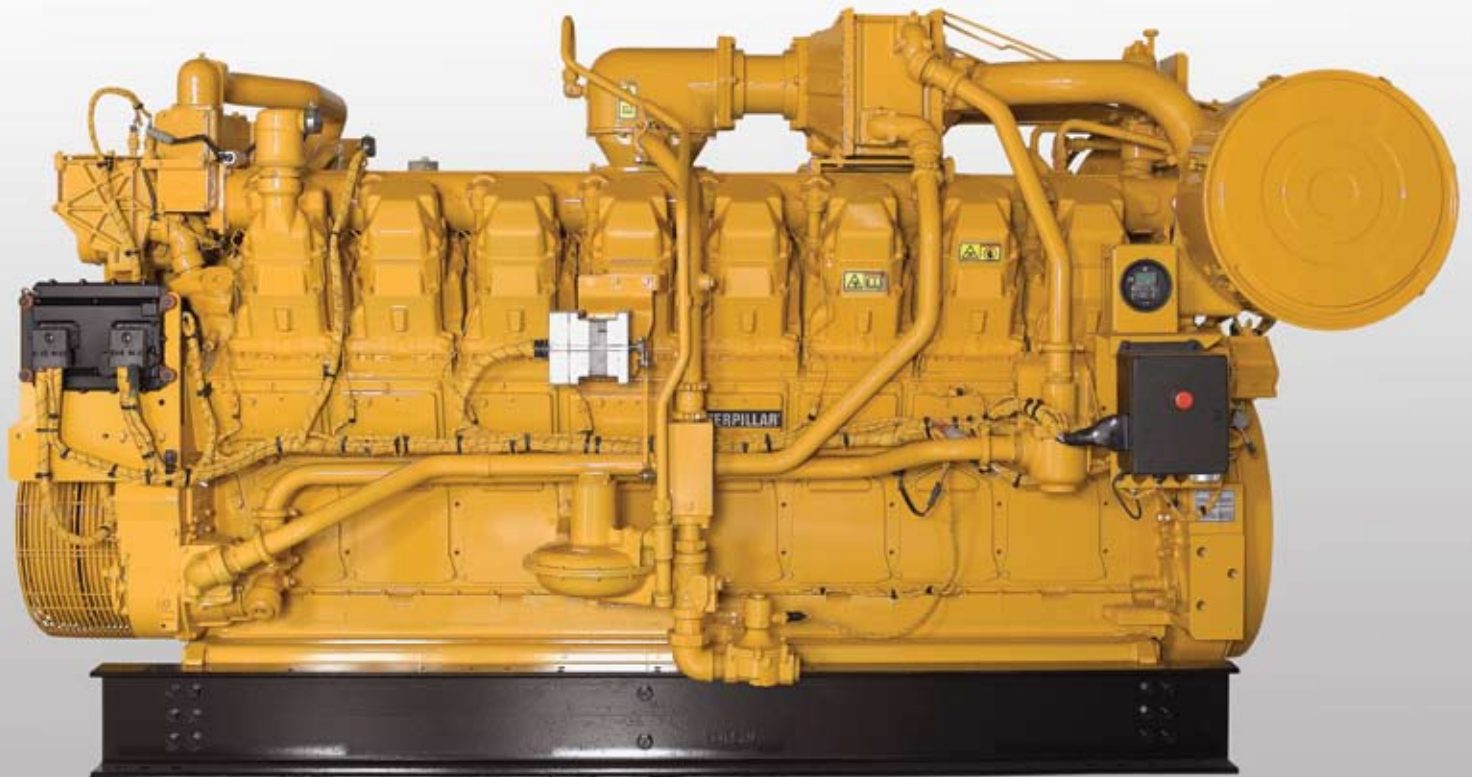


G3512 & G3516 ENGINE Upgrade

Conversion to ADEM III with AFRC and NOx Sensor



Enhanced Performance and Reliability

Caterpillar continues to power the world with gas engine innovations that deliver high performance and fuel economy, as well as clean emissions. One innovation available now for G3512 & G3516 engines is the Caterpillar Advanced Digital Engine Management III electronic control system. The ADEM III electronic controls integrate governing (engine sensing & monitoring, air/fuel ratio control, ignition timing, and detonation control) into one comprehensive engine control system.

Your Cat® Dealer has all the information and equipment you need to take advantage of Caterpillar's advanced engine technology. Upgrade your G3512 & G3516 engines in the field now with the Caterpillar ADEM III system, and harness the power of enhanced performance and reliability.

CATERPILLAR®

ADEM III Makes All The Difference

Simplified System Architecture

Allows easier troubleshooting and more reliable engine monitoring.

Wiring Harnesses and Fewer Terminal Connections

Improves reliability by reducing the number of electrically related faults.

Pyrometer

Monitors exhaust temperature in several locations.

Remote Monitoring

Maximizes efficiency and availability by providing data for nearly all engine Operating parameters. (Requires optional equipment).

Advisor Display

Simplifies engine operation and troubleshooting. (Requires optional equipment)

Cat Electronic Technician (CAT ET)

Allows an operator to view engine parameters and diagnostic codes for Troubleshooting. (Requires optional equipment)

CSA Certifiable

All conversion systems are designed to meet the requirements of CSA Class 1, Division 2, and Groups C&D specifications.

The ADEM III upgrade for G3500 gas engines conversion is compatible with all turbocharged and aftercooled engines using air starting.

G3500 Control System Features and Benefits:

- Allows for easier troubleshooting and more reliable engine monitoring (Simplified System Architecture)
- Improved reliability by reducing the number of electrically related faults (Wiring harness with fewer terminal connections)
- Reduces downtime for replacement, eases serviceability, single part number stocked in parts department for each cylinder size (Modular harness design eliminates variable harnesses)
- Extended engine life (ADEM III prelube and postlube)
- Monitoring of the exhaust temperature in several locations (Pyrometer)
- Finer control of fuel to air mix allowing for more complete and clean combustion (Air fuel ratio control with NOx Sensor)
- Maximizes efficiency and availability (Remote Monitoring)
- Simplifies engine operation and troubleshooting, expanded safety and shutdown capability, can be transmitted to a PLC via the Caterpillar PL 1000E communication module using MODBUS or the PL 1000T using M5X (Advisor Display)
- Allows operators to view engine parameters and diagnostic codes for troubleshooting (CAT ET)

CAT® DEALERS DEFINE WORLD-CLASS PRODUCT SUPPORT.

We offer you the right parts and service solutions, when and where you need them.

The Cat Dealer network of highly trained experts keeps your entire fleet up and running to maximize your equipment investment.

