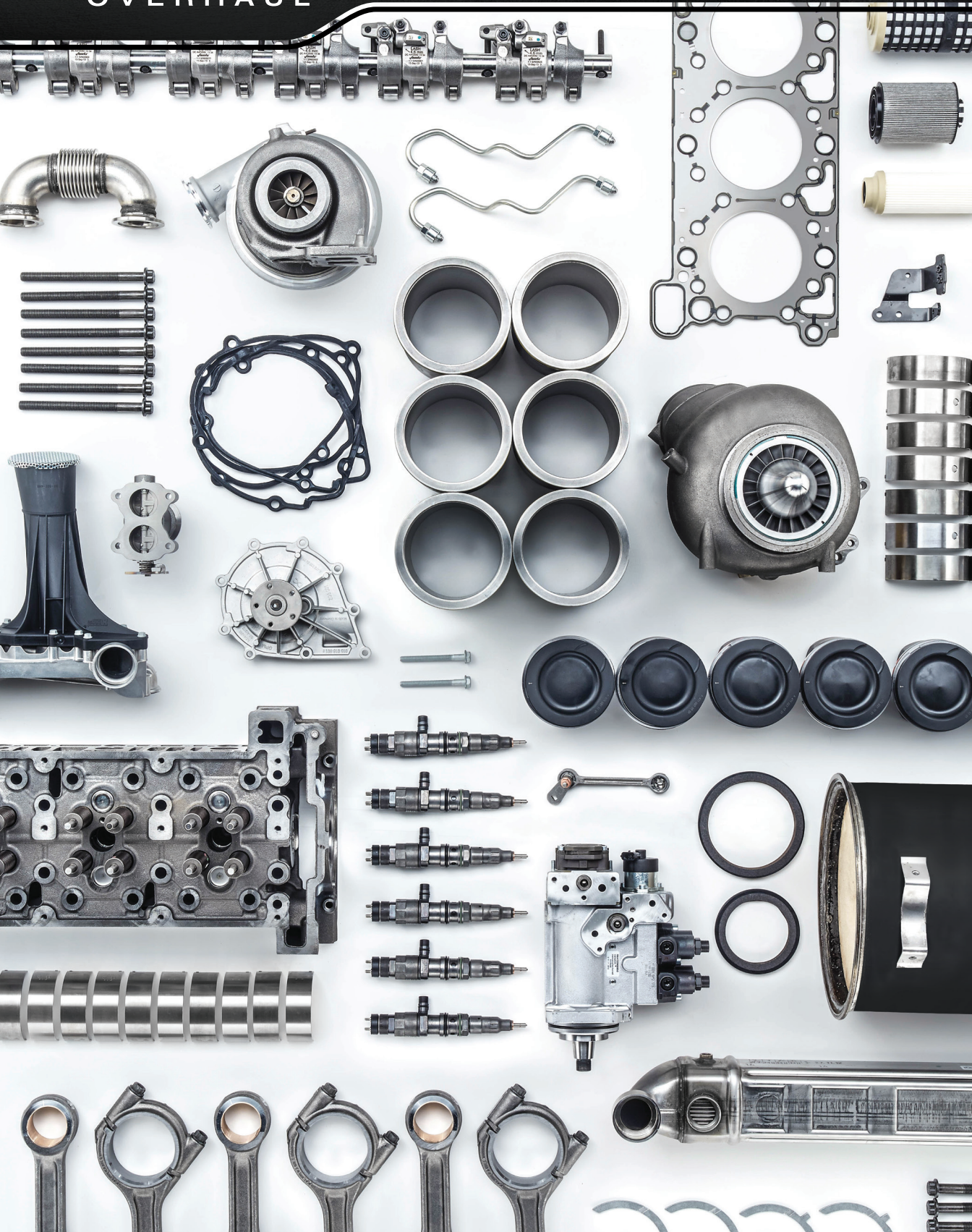


# StepUP<sup>®</sup>

OVERHAUL



**DETROIT**<sup>™</sup>  
GENUINE PARTS

**DEMAND**

DEM

DETA

**GENUINE.**

**AND**









**ROIT.**

## **Why StepUP<sup>®</sup> Overhaul?**



**In the highly competitive trucking industry, better productivity means greater profits, so your engine plays a vital role in ensuring the success of your business. You need an engine that pulls with strength, uses fuel efficiently and guarantees reliability. StepUP Overhaul gives you four easy-to-understand options for improving the performance of your DD Series, Series 60<sup>®</sup> or MBE 4000 engine. Each option includes Detroit<sup>™</sup> genuine parts, pricing with installation, solid warranty coverage and expert installation by an unrivaled network of authorized Detroit service outlets.**

# BENEFITS

## PUT AN END TO:

-  Low Power
-  Poor Fuel Efficiency
-  Hard Starts
-  Rough Idle
-  Blue or White Smoke
-  Low Compression
-  High Oil Consumption
-  Wear Metals in Oil

## BE MORE PRODUCTIVE WITH:

-  Increased Power
-  Improved Fuel Economy
-  Smooth Operation
-  Less Downtime
-  Longer Engine Life
-  Lower Labor Expenses
-  Warranty Protection
-  Best-Performing Service Network

## WARRANTY:

With Detroit genuine parts and factory-backed technicians, each StepUP Overhaul step comes with a nationwide warranty and optional extended coverage.<sup>1</sup>

ITEM	WARRANTY	OPTIONAL EXTENDED COVERAGE
Step 1: Basic Overhaul	Standard parts and labor warranty: 1-year/unlimited-miles on replaced components	N/A
Step 2: Super Overhaul	Standard parts and labor warranty: 1-year/unlimited-miles on replaced components	2-year/200,000-mile Power Protection Plan on replaced parts and inspected components
Step 3: Complete Overhaul	1-year/100,000-mile Power Protection Plan on replaced and inspected components	
Step 4: Reman Engine	2-year/200,000-mile Power Protection Plan on replaced and inspected components	3-year/300,000-mile Power Protection Plan on replaced parts and inspected components
PowerPacks™ fuel injectors <sup>2</sup>	2-year/150,000-mile warranty	N/A

## COVERAGE REQUIREMENTS:

- The overhauled engine must be installed in the original chassis
- All work must be performed at an authorized Detroit outlet
- Engine must meet age and mileage requirements (see engine page for details)
- EGR customers must replace EGR valve and EGR cooler

<sup>1</sup> StepUP Overhaul is only available on EPA 2007 DD13®, DD15® and DD16®; Series 60 and MBE 4000 engines in on-highway applications.

<sup>2</sup> PowerPacks fuel injectors, a normal wear item, are covered by a 2-year/150,000-mile warranty when installed in-shop.

# DD SERIES

## STEP 1: BASIC OVERHAUL

*Restore Power Efficiency and Reliability*

- Complete set of six cylinder kits
  - Piston domes, rings, skirts and pins
  - Cylinder liners and seals
- Connecting rods
- EGR actuator linkage and nut
- Oil pump
- Oil suction module
- Oil filter
- Oil pan gasket
- Coolant filter
- Fuel line kit
- Fuel filter kit
- Rear main seal
- Front crank seal
- Lower-end bearing kit
  - Lower main bearings/shells
  - Upper main bearings/shells
  - Connecting rod bearings/shells
  - Thrust washers
- Cylinder head bolt set
- Cylinder head gasket kit
- Block gasket kit
- EGR valve and cooler<sup>1</sup>
- Pipe from cooler to valve
- Remanufactured DPF<sup>1</sup>



Steps 1-3 shown

<sup>1</sup> EGR valve, EGR cooler and DPF must be replaced.  
<sup>2</sup> PowerPacks fuel injectors, a normal wear item, are covered by a 2-year/150,000-mile warranty when installed in-shop.

Engine-Specific Coverage Qualifications: StepUP Overhaul is only available on EPA 2007 DD13, DD15 and DD16 engines in on-highway applications. To qualify, the engine must be less than 10 years old and under 1.2 million miles.

DD13<sup>®</sup>DD15<sup>®</sup>DD16<sup>®</sup>

## STEP 2: SUPER OVERHAUL

*Reinvigorate Performance and Productivity*

**Everything in a Step 1: Basic Overhaul PLUS:**

- Remanufactured rocker arms
  - Exhaust and intake
- Remanufactured high-pressure fuel pump
- Remanufactured cylinder head assembly
- Coolant thermostat

## STEP 3: COMPLETE OVERHAUL

*Make Your High-Mileage Engine Run Strong and Long*

**Everything in a Step 2: Super Overhaul PLUS:**

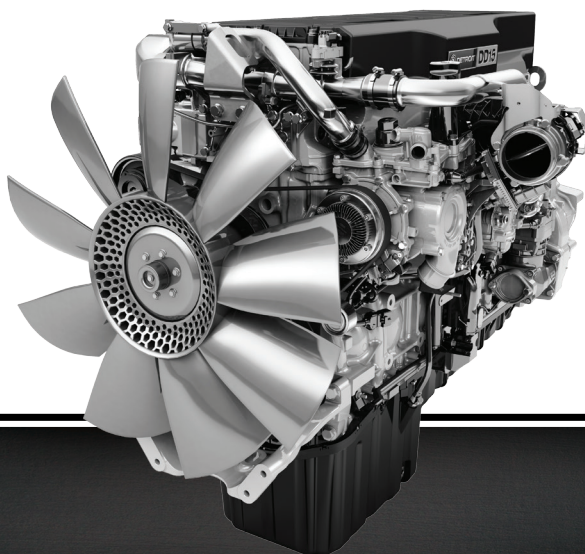
- Turbocharger
- Axial power turbine (DD15 only)
- Axial power turbine gear box (DD15 only)
- Water pump
- PowerPacks™ — a set of six remanufactured fuel injectors<sup>2</sup>

## STEP 4: DETROIT REMAN ENGINE

*Includes the Latest Design Enhancements. Guaranteed to Run Like New*

**Detroit Genuine Parts Remanufactured Engine:**

- Remanufactured, not rebuilt, to the latest design enhancements
- Factory-tested to OEM specifications



# SERIES 60<sup>®</sup>

## STEP 1: BASIC OVERHAUL

*Restore Power Efficiency and Reliability*

- Complete set of six cylinder kits:
  - Piston domes, rings, skirts, pins and bushings
- Cylinder liners and seals
- Cam-bearing shell set
- Cylinder head bolt set
- Thermostats
- Oil pressure regulator
- Oil pressure relief valve
- Overhaul gasket kit
- Oil pan and rocker cover gaskets
- EGR valve and cooler (if applicable)<sup>1</sup>
- Lower-end bearing kit:
  - Lower main bearings/shells
  - Upper main bearings/shells
  - Connecting rod bearings/shells
  - Thrust washers



Steps 1-3 shown

<sup>1</sup> EGR valve and EGR cooler must be replaced.

<sup>2</sup> PowerPacks fuel injectors, a normal wear item, are covered by a 2-year/150,000-mile warranty when installed in-shop.

Engine-Specific Coverage Qualifications: StepUP Overhaul is available for all Series 60 engines in on-highway applications. To qualify, the engine must be less than 10 years old and under 1 million miles.



## STEP 2: SUPER OVERHAUL

*Reinvigorate Performance and Productivity*

**Everything in a Step 1: Basic Overhaul PLUS:**

- Remanufactured cylinder head assembly
- Remanufactured rocker arm kit

**Optional Components:**

- PowerPacks™ – a set of six remanufactured fuel injectors<sup>2</sup>
- Remanufactured turbocharger
- Remanufactured fuel pump
- Remanufactured water pump

## STEP 3: COMPLETE OVERHAUL

*Make Your High-Mileage Engine Run Strong and Long*

**Everything in a Step 2: Super Overhaul PLUS:**

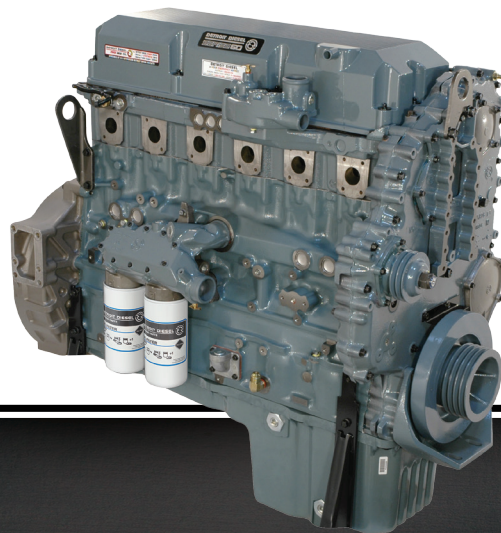
- PowerPacks — a set of six remanufactured fuel injectors<sup>2</sup>
- Remanufactured turbocharger
- Remanufactured water pump

## STEP 4: DETROIT REMAN ENGINE

*Includes the Latest Design Enhancements. Guaranteed to Run Like New*

**Detroit Genuine Parts Remanufactured Engine:**

- Remanufactured, not rebuilt, to the latest design enhancements
- Factory-tested to OEM specifications



# MBE 4000

## STEP 1: BASIC OVERHAUL

*Restore Power Efficiency and Reliability*

- Complete set of six cylinder kits:
  - Piston domes, rings, skirts, pins and bushings
  - Cylinder liners and seals
- Overhaul gasket kit
- Thermostat kit
- Lower-end bearing kit:
  - Lower main bearings/shells
  - Upper main bearings/shells
  - Connecting rod bearings/shells
  - Thrust washers
- Cylinder head bolt set
- Fuel line hardware kit:
  - Banjo bolts
  - Fuel line washer
- High-pressure fuel lines
- Transfer tubes
- EGR valve and cooler (if applicable)<sup>1</sup>



Steps 1-3 shown

<sup>1</sup> EGR valve and EGR cooler must be replaced.

<sup>2</sup> PowerPacks fuel injectors, a normal wear item, are covered by a 2-year/150,000-mile warranty when installed in-shop.

Engine-Specific Coverage Qualifications: StepUP Overhaul is available for all MBE 4000 engines in on-highway applications. To qualify, the engine must be less than 10 years old and under 1 million miles.

## STEP 2: SUPER OVERHAUL

*Reinvigorate Performance and Productivity*

**Everything in a Step 1: Basic Overhaul PLUS:**

- Remanufactured cylinder heads
- Remanufactured rocker arm assembly

**Optional Components:**

- PowerPacks™ – a set of six remanufactured fuel injectors<sup>2</sup>
- Remanufactured turbocharger
- Remanufactured fuel pump
- Remanufactured water pump

## STEP 3: COMPLETE OVERHAUL

*Make Your High-Mileage Engine Run Strong and Long*

**Everything in a Step 2: Super Overhaul PLUS:**

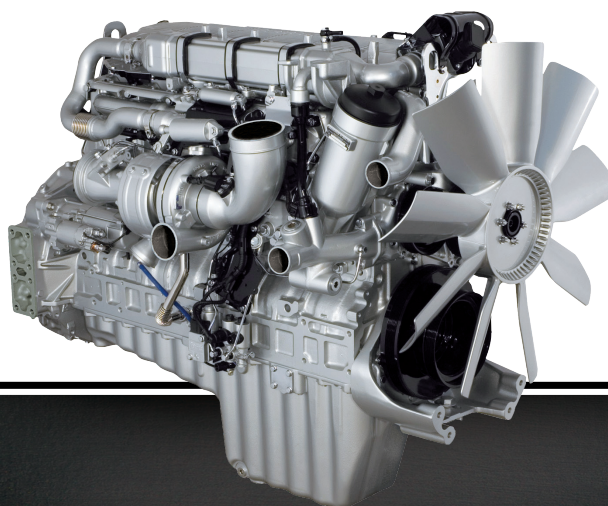
- PowerPacks — a set of six remanufactured fuel injectors<sup>2</sup>
- Remanufactured turbocharger
- Remanufactured water pump

## STEP 4: DETROIT REMAN ENGINE

*Includes the Latest Design Enhancements. Guaranteed to Run Like New*

**Detroit Genuine Parts Remanufactured Engine:**

- Remanufactured, not rebuilt, to the latest design enhancements
- Factory-tested to OEM specifications



# DETROIT SUPPORT. ANYWHERE.

- SERVICE AT HUNDREDS OF DETROIT AUTHORIZED SERVICE LOCATIONS
- REPAIRS PERFORMED BY CERTIFIED TECHNICIANS
- UNMATCHED AVAILABILITY OF DETROIT GENUINE PARTS
- COVERAGE THROUGHOUT U.S. AND CANADA

