



TABLE OF CONTENTS

Why StepUP Overhaul?	3
Benefits	4
DD Series [™]	5
Series 60°	7
MBE 4000 [™]	9

DEMAND GENUINE. DEMAND DETROIT®

Why StepUP Overhaul?

In the ultra competitive trucking industry, better productivity means greater profits. 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[®] or MBE 4000[™] engine. Each option includes Detroit 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:	BE MORE PRODUCTIVE WITH:	
Low Power	(Increased Power	
Door Fuel Efficiency	Improved Fuel Economy	
♥ Hard Starts	Smooth Operation	
⚠ Rough Idle	Less Downtime	
Blue or White Smoke	Longer Engine Life	
Low Compression	\$ Lower Labor Expenses	
🛥 High Oil Consumption	R Warranty Protection	
🖌 Wear Metals in Oil	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.¹

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 1-year/100,000-mile Power Protection Plan on required inspected components	2-year/200,000-mile Power Protection Plan on replaced
Step 3: Complete Overhaul		1-year/100,000-mile Power Protection Plan and inspected co
Step 4: Reman 3/4 Engine		
Step 4: Reman Complete Engine	2-year/200,000-mile Power Protection Plan on replaced and inspected components	3-year/300,000-mile Power Protection Plan on replaced and inspected components
Step 4: Reman PowerChoice Engine		

COVERAGE REQUIREMENTS:

- As of January 1, 2019 there are no age or mileage restrictions for StepUP qualification
- The overhauled engine must be installed in the original chassis
- EGR valve and EGR cooler must be replaced on EGR factory equipped engines
- All work must be performed by an authorized Detroit service outlet

¹ StepUP Overhaul is available on most DD13[®], DD15[®] and DD16[®]; Series 60[®] and MBE 4000[™] engines in on-highway applications. Check with your authorized Detroit[®] service outlet for specific applications.

DD SERIES[™]

STEP 1: BASIC OVERHAUL

Restore Power Efficiency and Reliability

- Complete set of six cylinder kits -Pistons, rings, pins and bushings -Cylinder liners and seals
- Connecting rods
- EGR actuator linkage and nut
- Oil pump³
- Oil filter
- Oil pan gasket

- Coolant filter¹
- Fuel line kit
- Fuel filter kit
- Lower-end bearing kit
- Upper and lower main bearings
- Connecting rod bearings
- Thrust washers
- Cylinder head bolt set

- Cylinder head gasket kit
- Block gasket kit
- EGR valve^{1,3}
- EGR cooler^{1,3}
- Pipe from cooler to valve

Order separately

• DPF^{1,3}



Steps 1-3 shown

- If applicable based on engine model, must be replaced at time of overhaul. PowerPacks[®] fuel injectors are covered by a 2-year/150,000-mile warranty when installed by an authorized Detroit[®] service outlet. Warranty registration separate from StepUP Overhaul registration for Steps 1 and 2.

³ New or remanufactured based on availability.
 ⁴ Remanufactured to the original engine content and performance specifications based on VIN.

STEP 2: SUPER OVERHAUL

Reinvigorate Performance and Productivity

Everything in a Step 1: Basic Overhaul PLUS

- Rocker arms³
- Exhaust and intake
- High-pressure fuel pump³
- Cylinder head assembly³
- Coolant thermostat

STEP 3: COMPLETE OVERHAUL

Make Your High-Mileage Engine Run Strong and Long

Everything in a Step 2: Super Overhaul PLUS

- Turbocharger³
- Axial power turbine (DD15 only)
- Axial power turbine gear box (DD15 only)
- Water pump³
- PowerPacks[®] a set of six fuel injectors^{2,3}

STEP 4: DETROIT® REMAN ENGINE

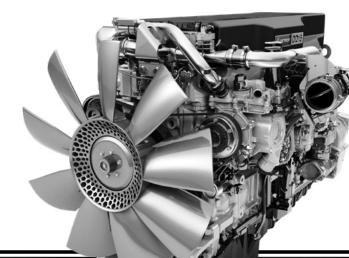
Guaranteed to Run Like New

Detroit Genuine Parts Remanufactured Engine

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

Options

- Reman 3/4 Engine
- Reman Complete Engine
- Reman PowerChoice Engine⁴



- If applicable based on engine model, must be replaced at time of overhaul. PowerPacks® fuel injectors are covered by a 2-year/150,000-mile warranty when installed by an authorized Detroit® service outlet. Warranty registration separate from StepUP Overhaul registration for Steps 1 and 2.
- ⁸ New or remanufactured based on availability.
 ⁴ Remanufactured to the original engine content and performance specifications based on VIN.

STEP 1: BASIC OVERHAUL

Restore Power Efficiency and Reliability

- Complete set of six cylinder kits
- Piston domes, rings, skirts³, pins and bushings
- Cylinder liners and seals
- Cam-bearing shell set

- Cylinder head bolt set
- Thermostats
- Overhaul gasket kit

Order Separately

- Oil pan and rocker cover gaskets
- Oil pressure regulator
- Oil pressure relief valve
- EGR valve^{1,3}
- EGR cooler^{1,3}
- Lower-end bearing kit
- Upper and lower main bearings
- Connecting rod bearings
- Thrust washers



Steps 1-3 shown

- ¹ If applicable based on engine model, must be replaced at time of overhaul.
 ² PowerPacks[®] fuel injectors are covered by a 2-year/150,000-mile warranty when installed by an authorized Detroit[®] service outlet. Warranty registration separate from StepUP Overhaul registration for Steps 1 and 2.
- ³ New or remanufactured based on availability.
 ⁴ Remanufactured to the original engine content and performance specifications based on VIN.

STEP 2: SUPER OVERHAUL

Reinvigorate Performance and Productivity

Everything in a Step 1: Basic Overhaul PLUS

- Cylinder head assembly³
- Rocker arms³
- Exhaust and intake

Optional Components

- PowerPacks[®] a set of six fuel injectors^{2,3}
- Turbocharger³
- Fuel pump³
- Water pump³

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 fuel injectors^{2,3}
- Turbocharger³
- Water pump³

- **Optional Components**
- Fuel pump³

STEP 4: DETROIT® REMAN ENGINE

Guaranteed to Run Like New

Detroit Genuine Parts Remanufactured Engine

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

Options

- Reman 3/4 Engine
- Reman Complete Engine
- Reman PowerChoice Engine⁴



- ¹ If applicable based on engine model, must be replaced at time of overhaul.
 ² PowerPacks[®] fuel injectors are covered by a 2-year/150,000-mile warranty when installed by an authorized Detroit[®] service outlet. Warranty registration separate from StepUP Overhaul registration for Steps 1 and 2.
- ³ New or remanufactured based on availability.
 ⁴ Remanufactured to the original engine content and performance specifications based on VIN.

STEP 1: BASIC OVERHAUL

Restore Power Efficiency and Reliability

- Complete set of six cylinder kits
- Piston domes, rings, skirts³, pins and bushings
- Cylinder liners and seals
- Overhaul gasket kit
- Thermostat kit

- Lower-end bearing kit
- Upper and lower main bearings
- Connecting rod bearings
- Thrust washers
- Cylinder head bolt set

- Fuel line hardware kit
- Banjo bolts
- Fuel line washer
- High-pressure fuel lines
- Transfer tubes
- EGR valve^{1,3}
- EGR cooler^{1,3}



Steps 1-3 shown

- ¹ If applicable based on engine model, must be replaced at time of overhaul.
 ² PowerPacks[®] fuel injectors are covered by a 2-year/150,000-mile warranty when installed by an authorized Detroit[®] service outlet. Warranty registration separate from StepUP Overhaul registration for Steps 1 and 2.

³ New or remanufactured based on availability.
 ⁴ Remanufactured to the original engine content and performance specifications based on VIN.

STEP 2: SUPER OVERHAUL

Reinvigorate Performance and Productivity

Everything in a Step 1: Basic Overhaul PLUS

- Cylinder head assemblies³
- Rocker arms³
 - Exhaust and intake

Optional Components

- PowerPacks[®] a set of six fuel injectors^{2,3}
- Turbocharger³
- Fuel pump³
- Water pump³

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 fuel injectors^{2,3}
- Turbocharger³
- Water pump³

- **Optional Components**
- Fuel pump³

STEP 4: DETROIT® REMAN ENGINE

Guaranteed to Run Like New

Detroit Genuine Parts Remanufactured Engine

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

Options

- Reman 3/4 Engine
- Reman Complete Engine
- Reman PowerChoice Engine⁴



- ¹ If applicable based on engine model, must be replaced at time of overhaul. ² PowerPacks® fuel injectors are covered by a 2-year/150,000-mile warranty when installed by an authorized Detroit® service outlet. Warranty registration separate from StepUP Overhaul registration for Steps 1 and 2.
- New or remanufactured based on availability.
 Remanufactured to the original engine content and performance specifications based on VIN.

DEMANDDETROIT.COM

DETROIT® SUPPORT. ANYWHERE.

- OVER 700 AUTHORIZED DETROIT SERVICE OUTLETS
- REPAIRS PERFORMED BY DETROIT CERTIFIED TECHNICIANS
- UNMATCHED AVAILABILITY OF DETROIT GENUINE PARTS
- COVERAGE THROUGHOUT U.S. AND CANADA

DTNA/PSM-B-1083. Specifications are subject to change without notice. Detroit Diesel Corporation is registered to ISO 9001:2008.

