



DETROIT[®] DD5[™]

TECHNICAL SPECIFICATIONS

THE DETROIT DD5 ENGINE AVAILABLE IN THE SAF-T-LINER[®] C2 SCHOOL BUS THE MOST ADVANCED ENGINE TECHNOLOGIES ENGINEERED TODAY

This next-generation medium-duty engine delivers unsurpassed efficiency with exceptional endurance. All while achieving the longest maintenance intervals in the industry for maximum uptime.

PERFORMANCE

- Meet your deadline every time
 - Components such as rear gear train and cast iron block are designed to minimize noise vibration harshness (NVH), resulting in a quieter engine that enhances driver and passenger safety
 - Simple fixed-geometry dual-stage turbo provides performance, efficiency, and reliability
 - Robust design provides B10 life of 400,000 miles
 - Integrated engine brake option provides superior braking horsepower and extended service brake life

POWER

- Usable power and torque reached at lower engine speeds, ideal for the demands of today's school bus

ECONOMY

- Smart, fuel-efficient design makes the most of every gallon
 - Advanced common rail fuel system optimizes each injection event to minimize fuel consumption
 - Piston and cylinder design reduces friction and provides optimal combustion control resulting in better fuel economy and reduced emissions
 - Variable exhaust cam phasing technology allows additional heat to the exhaust stream to promote efficient operation of the aftertreatment system in low speed stop-and-go operation reducing the need for active regen
 - A state-of-the-art cooling system and variable-speed fan reduce fan-on times and help maintain engine power and fuel efficiency
 - A 4-cylinder design, which provides just as much torque as a 6-cylinder, but with better fuel efficiency

COMPLIANCE

- The DD5 is certified to Greenhouse Gas (GHG17) standards, effective through 2020
- 2016 On-Board Diagnostics certified

SERVICEABILITY

- Best-in-class maintenance intervals of up to 45,000* miles help reduce downtime to keep you up and running
- Oil and fuel filters are positioned above the frame rails for easier, faster and cleaner filter changes
- Maintenance-free crankcase breather
- Detroit[®] Connect Virtual TechnicianSM helps you make informed service decisions within minutes of a fault event and provides actionable data that can improve passenger safety

DD5 SPECIFICATIONS

Configuration	Inline 4 cylinder
Displacement	313 cu. in. (5.1 L)
Compression Ratio	17.6:1
Bore	4.33 in. (110 mm)
Stroke	5.3 in. (135 mm)
Weight (Dry)	1188 lb. (539 kg)
Electronics	DDEC [®]
Service Fill (Oil & Filter Change)	18.5 qt. (18 L)
Horsepower Range	200-240
Torque Range	560-660



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Maintenance Intervals

Item	Mi/km†	Severe Duty	Short-Haul
Engine Oil and Filter Change*	Miles	35,000	45,000
	Kilometers	56,000	72,000
	Hours	1,000	1,500
Fuel Filter Change	Miles	35,000	45,000
	Kilometers	56,000	72,000
	Hours	1,000	1,500
Valve Lash Adjustment	Miles	70,000	90,000
	Kilometers	113,000	145,000
	Hours	2,300	3,000
Diesel Particulate Filter	A check-engine light will illuminate when ash requires removal. Normal DPF ash clean interval is:		
	Miles	<190,000	190,000-225,000
	Kilometers	<306,000	306,000-362,000
	Hours	<6,300	6,300-7,500
DEF Pump Filter	Replace every 3 years or 500,000 miles (805,000 km) (10,000 hrs.)		

*Maintenance intervals using Detroit Fluids Specification 93K222 (CK-4) or 93K223 (FA-4) Approved Oils. Severe duty averages less than 10 miles per gallon (mpg) and operates under severe conditions. Short-haul is up to 60,000 annual miles (96,000 kilometers) and averages between 10.1 and 11.9 mpg.

†Miles/Kilometers or Hours, whichever occurs first.

Power Ratings

DD5 Engine Power Ratings	
200 HP @ 2200 RPM*	560 lb-ft @ 1400 RPM
220 HP @ 2200 RPM	560 lb-ft @ 1400 RPM
240 HP @ 2200 RPM	660 lb-ft @ 1400 RPM

*200 HP engine not available for up-rate

Standard Warranty

Item	Warranty Limits (Whichever Occurs First)		Repair Charge (Paid by Owner)	
	Months	Miles / Kilometers	Parts	Labor
Engine	0-60	100,000 mi 160,000 km	No charge	No charge



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