



DETROIT[®] DD8[™]

TECHNICAL SPECIFICATIONS

THE DETROIT DD8 ENGINE AVAILABLE IN THE SAF-T-LINER[®] HDX SCHOOL BUS THE MOST ADVANCED ENGINE TECHNOLOGIES ENGINEERED TODAY

PERFORMANCE

- Simple fixed-geometry turbo design provides performance, efficiency, and reliability
- Robust design for an impressive B10 life of 400,000 miles
- Integrated engine brake option provides superior braking horsepower to extend service brake life
- 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

POWER

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

COMPLIANCE

- The DD8 is certified to Greenhouse Gas (GHG17) standards, effective through 2020
- 2016 On-Board Diagnostics (OBD) certified

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

SERVICEABILITY

- Best-in-class maintenance intervals of up to 55,000* 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

DD8 SPECIFICATIONS

Configuration	Inline 6 Cylinder
Displacement	470 cu. in. (7.7 L)
Compression Ratio	17.6:1
Bore	4.33 in. (110 mm)
Stroke	5.3 in. (135 mm)
Weight (Dry)	1437 lb. (652 kg)
Electronics	DDEC [®]
Service Fill (Oil & Filter Change)	26.9 qt. (25.5 L)
Horsepower Range	260-300
Torque Range	660-860



Maintenance Intervals

Item	Mi /km /Hr†	Severe Duty	Short-Haul
Engine Oil and Filter Change*	Miles	45,000	55,000
	Kilometers	72,000	88,000
	Hours	1,500	1,800
	Months	12	18
Fuel Filter Change	Miles	45,000	55,000
	Kilometers	72,000	88,000
	Hours	1,500	1,800
	Months	12	18
Valve Lash Adjustment	Miles	90,000	110,000
	Kilometers	145,000	177,000
	Hours	3,000	3,600
	Months	24	36
Diesel Particulate Filter	A check engine light will illuminate when ash requires removal. Normal DPF ash clean interval is every:		
	Miles	150,000	
	Kilometers	241,000	
	Hours	5,000	
DEF Pump Filter	Replace every 3 years or 500,000 miles (805,000 km) (10,000 hrs.)		

* Severe duty averages less than 6.5 miles per gallon (mpg) and operates under severe conditions. Short-haul is up to 60,000 annual miles (96,000 kilometers) and averages between 6.5 and 8.5 mpg.

† Miles/Kilometers or time, whichever occurs first.

Power Ratings

DD8 Engine Power Ratings	
260 HP @ 2200 RPM	660 lb-ft @ 1400 RPM
260 HP @ 2200 RPM	720 lb-ft @ 1400 RPM
280 HP @ 2200 RPM	800 lb-ft @ 1400 RPM
300 HP @ 2200 RPM	860 lb-ft @ 1400 RPM

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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