



DETROIT[™] DD15[™]

TECHNICAL SPECIFICATIONS

THE DETROIT[™] DD15[®] ENGINE WITH BLUETEC[®] EMISSIONS TECHNOLOGY TAKES INNOVATION TO A WHOLE NEW LEVEL.

This impressive engine delivers incredible torque response and power, increased fuel economy, extremely wide torque range, extended maintenance intervals and a smoother, cleaner ride.

PERFORMANCE

- The DD15 delivers 90% peak torque in 1/2 seconds. Here's how:
 - Breakthrough innovation called Amplified Common Rail System (ACRS™)
 - Simple and reliable pre-EPA 198 non-wastegated and non-variable geometry-style turbocharger
 - Low inertia, dual overhead camshafts
- ACRS reduces emissions, noise and vibration
- Rear gear train and ribbed cast iron cylinder block with integrated oil and coolant passages minimize vibration and sound
- Integrated Jacobs[®] Engine Brake with three levels of braking increases stopping power and reduces noise

FUEL ECONOMY

- Up to 5% fuel savings* over other leading engines
- Turbo compounding system recovers normally wasted exhaust gases and turns them into usable power without sacrificing fuel

POWER

- Pulls strong down to 1000 RPM
- Ultra-wide flat torque curve for easy shifting

SERVICEABILITY

- Engine sub-systems are modularly built to simplify parts replacement and maintenance
- All filters are cartridge style and located above the frame rails for easy replacement

BLUETEC EMISSIONS TECHNOLOGY

- Proven Bluetec emissions technology meets EPA 2010 emissions requirements at the tailpipe
- Improved engine performance and fuel economy
- Simple to use, economical to own and time-tested experience
- Available with 1+Box[™] emissions package

* Compared to 2009 15 and 16.7L engines with ultra-low engine output and 1500 engine

DD15 SPECIFICATIONS

Configuration	 12.8L 6-Cylinder
Displacement	 128 cu. in. (21.2L)
Compression Ratio	 15.5:1
Bore	 4.47 in. (114 mm)
Stroke	 6.42 in. (163 mm)
Weight (dry)	 3200 lb. (1450 kg)
Dimensions	 88.0" H
Oil Capacity	 17.5 qt. (16.7 L)
Service Interval Range	 100,000 mi
Torque Range	 1,400-1,800



Detroit Dd15 Engine Specs Manual

Christopher D Armstrong



Detroit Dd15 Engine Specs Manual:

Fundamentals of Medium/Heavy Duty Diesel Engines Gus Wright, 2021-09-30 Preview a Sample Chapter Now Chapter 12 Diesel Fuel Properties and Characteristics View Now Thoroughly updated and expanded Fundamentals of Medium Heavy Diesel Engines Second Edition offers comprehensive coverage of basic concepts and fundamentals building up to advanced instruction on the latest technology coming to market for medium and heavy duty diesel engine systems Now organized by outcome based objectives to improve instructional clarity and adaptability in a more readable format all content seamlessly aligns with the latest ASE Medium Heavy Truck Program requirements for IMMR through MTST This industry leading Second Edition offers Complete coverage for the T2 ASE exam including starting and charging systems Unique coverage and emphasis on electronic control systems for the L2 Diesel Specialist ASE Exam Dedicated chapters on the latest technology and unique OEM equipment Examples of In Depth Coverage for Today s Technicians Electronic service tools Variable Geometry and Series Turbocharging On board networks multiplexing and HD OBD fundamentals and OEM specific Exhaust Aftertreatment Systems Particulate filters Selective Catalyst Reduction SCR and OEM systems Exhaust Gas recirculation EGR Basic Components Coolers Dual Coolers Inspecting a Cooler Mixers Valves Control System Mass Airflow Oxygen Sensor and Speed Density measurement of EGR flow Maintenance On Board Diagnostics and System Performance Checks Engine sensors Analyzing Switch and Sensor Signals VREF and Zero Volt return ZVR Pull Up and Pull Down Switches Resistive Type Sensors Three Wire Hall Effect Sensor Throttle Sensors Pressure Sensors Mass Airflow Sensors Position Sensors Exhaust Gas Sensors Diesel Exhaust Fluid Sensors Fault Detection Principles for Sensors Three Wire Sensor Circuit Monitoring and Pinpoint Testing of Sensors Testing High Pressure Common Rail Fuel Systems Pressure Control Components Two Controller Rail Pressure Regulation On Board Diagnostics Monitoring Measuring Injector Back Leakage Measuring Total Fuel Leakage Fuel Balance Control Bosch Gen 1 4 Delphi Denso Servo hydraulic Direct Acting Piezo G3S and G4S III Siemens Continental AG Injection Rate Shaping Injection Rate and Fault Healing Model Predictive Control MPC and Rate Shape Selection Nominal Voltage Calibration Accelerometer Pilot Control Closed Loop Injector Control Fuel Leakage Rates Pressure Wave Correction Factor Zero Fuel Mass Calibration DYNAMIC TECHNOLOGY SOLUTIONS This text full aligns to CDX Online Access for Medium Heavy Duty Truck Online training program With an easy to use interface and seamless integration with this resource the online learning system reinforces and extends the learning topics from two dimensional paper to interactive e learning Online resources include Thousands of images and digital media assets such as animations and videos Updated tasksheets aligned to the latest ASE Education Foundation standards Mobile ready course materials Audiobook and eBook versions of this text 2023 1400 pages

Heavy Vehicle Accident Reconstruction Christopher D Armstrong, 2018-11-02 The last ten years have seen explosive growth in the technology available to the collision analyst changing the way reconstruction is practiced in fundamental ways The greatest technological advances for the crash

reconstruction community have come in the realms of photogrammetry and digital media analysis The widespread use of scanning technology has facilitated the implementation of powerful new tools to digitize forensic data create 3D models and visualize and analyze crash vehicles and environments The introduction of unmanned aerial systems and standardization of crash data recorders to the crash reconstruction community have enhanced the ability of a crash analyst to visualize and model the components of a crash reconstruction Because of the technological changes occurring in the industry many SAE papers have been written to address the validation and use of new tools for collision reconstruction Collision Reconstruction Methodologies Volumes 1 12 bring together seminal SAE technical papers surrounding advancements in the crash reconstruction field Topics featured in the series include Night Vision Study and Photogrammetry Vehicle Event Data Recorders Motorcycle Heavy Vehicle Bicycle and Pedestrian Accident Reconstruction The goal is to provide the latest technologies and methodologies being introduced into collision reconstruction appealing to crash analysts consultants and safety engineers alike

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