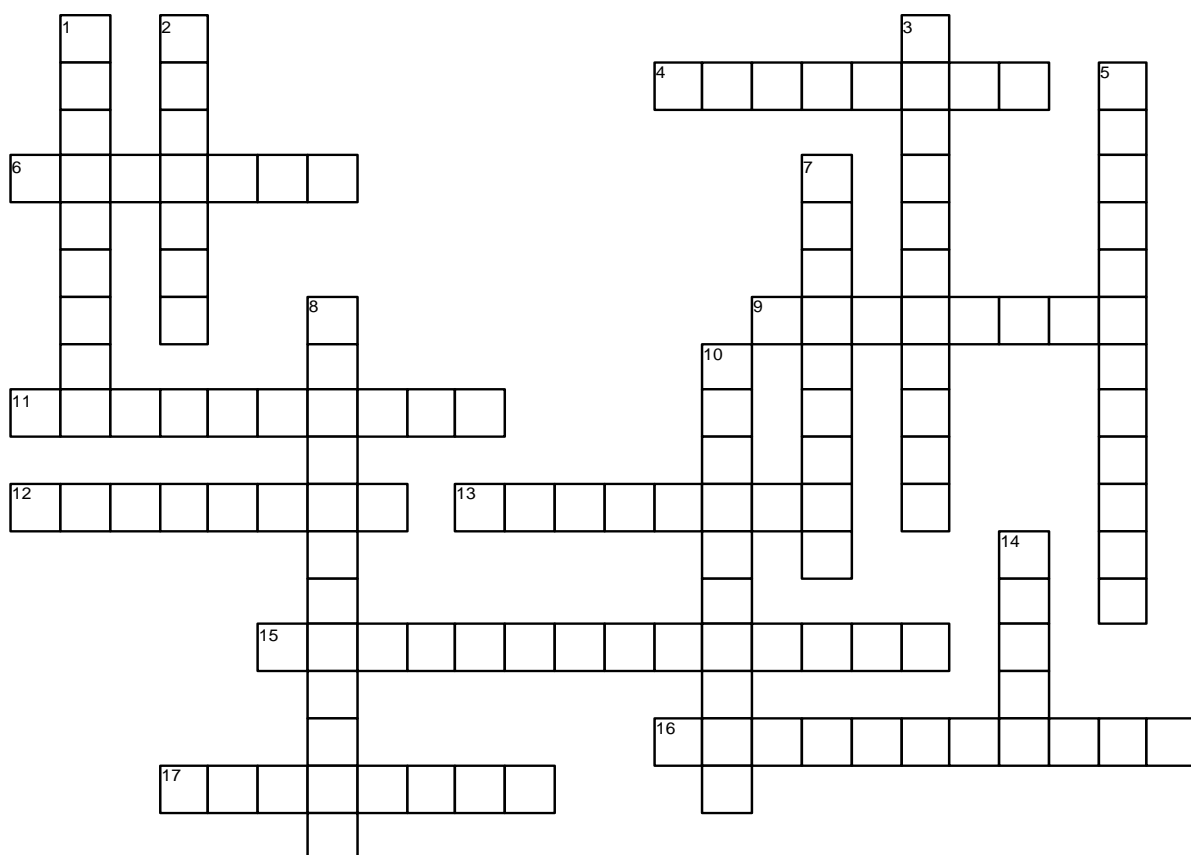


Fiat/Jeep Diesel Engines

Chapter 25



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ACROSS

- 4 The _____ position sensor is a hall-effect sensor that provides a 0 to 5-volt signal to the PCM. It is located on the driver-side upper timing cover.
- 6 The fuel system return system consists of injector return lines and the line from the _____ overflow valve that returns unused fuel to the tank.
- 9 The turbocharger _____ is responsible for controlling turbocharger boost pressure by controlling the position of the guide vanes inside the turbocharger.
- 11 The _____ position sensor is a magneto-resistive type of sensor.
- 12 The _____ module controls the operation of the glow plugs, and its location varies by application.
- 13 The _____ provides the lower crankshaft bearing journal and adds to the strength and stiffness of the engine.
- 15 The _____ system on the VM 3.0-liter V-6 diesel engine allows it to conform to diesel emission regulations.
- 16 The _____ houses the cylinders and pistons.
- 17 The VM 3.0-liter V-6 engine uses a _____ geometry turbocharger.

DOWN

- 1 The _____ flow control valve is attached to the intake manifold in the same way a throttle plate would be attached to a gasoline engine.
- 2 The Chrysler group refers to it as the EcoDiesel in their marketing materials. The engine is manufactured by _____ Martilli Motori, a wholly owned subsidiary of Fiat Chrysler automobiles, located in Emilia-Romagna, Italy.
- 3 The diesel _____ filter is a wall flow filter located in a stainless-steel housing downstream of the diesel oxidation catalyst.
- 5 The _____ pump provides fuel under pressure to the common rail.
- 7 The _____ bypass valve allows the exhaust gasses to bypass the egr cooler under specific operating conditions.
- 8 The diesel _____ injector (doser) is positioned just ahead of the sCr catalyst inlet.
- 10 The _____ recirculation valve is designed to reduce oxides of nitrogen emissions by reducing cylinder combustion temperatures.
- 14 The _____ pressure sensor allows the PCM to monitor intake air pressure.