

Chapter 1 : 6BT Cummins: Everything You Need to Know | Specs and More

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However, it was initially designed for use in Case agricultural equipment. The QSB engine was used in marine, agricultural, and construction equipment. Performance Data When the 6BT was first used in the Dodge Ram in it produced hp 2, rpm and lb-ft 1, While horsepower was down from the traditional gasoline engine, torque was up by quite a decent amount. In the world of trucks torque is the number that matters. In horsepower for the manual transmission models were increased to horsepower, and torque to lb-ft. Then in , the power was increased to horsepower and lb-ft for automatic transmission models. Power for manual transmission models was increased to horsepower and lb-ft of torque. Who cares what the 6BT Cummins was like from the factory, what is it capable of? The transmission will either need a beefy clutch for the manual, or an entire transmission build for the automatic. How can you easily get power out of your 6BT Cummins? Since it has an entirely mechanical fuel system, getting power out of it requires turning up the fuel, which is typically done by grinding down the fuel plate or purchasing a performance fuel plate. The fuel plate controls the flow of diesel to the engine per a given RPM. Bigger fuel injectors are also very important for the 6BT Cummins. Naturally, the standard upgrades like a larger exhaust also help the 6BT gain power. They did this by installing a larger turbocharger, larger injectors, a performance fuel plate, and a larger exhaust. With those modifications, they doubled the horsepower and torque. What they did with some simple changes shows just how great the 6BT is for modifications. Newer diesel engines, such as the 6. Common Problems The 6BT is a reliable engine thanks to its fully mechanical fuel system, simple wiring, and overall straightforward design. Like an engine, however, it does have some fatal flaws. Two major problems are common for the 6BT Cummins: This weak chemical mixture results in the block cracking which will cause coolant leaking and engine overheating. A cracked cylinder block is pretty much unfixable and should be avoided. The dowel pin is located in the timing gear case and over long periods of time, it will begin to wiggle loose from its dowel hole and eventually fall out. Another possibility is the dowel pin hitting a timing gear and shooting out the crankcase, causing terminal damage. Summary So overall the 6BT Cummins is an excellent engine. It was the engine that genuinely made diesel pickups popular in America. The entirely mechanical fuel system makes it great for engine swaps, and also makes it extremely reliable. Getting power out of it is as simple as turning up the fuel and bolting on a better turbocharger. You can find even more 6BT information on Wikipedia.

Chapter 3 : Cummins repair manual - Diesel Truck Forum - calendrierdelascience.com

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