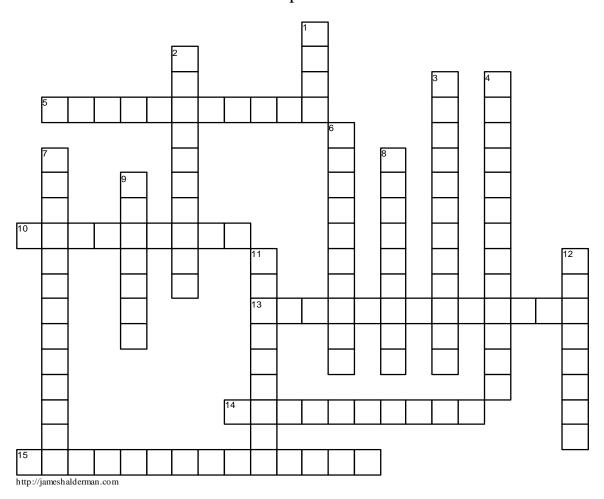
## **Engine Removal And Disassembly**

Chapter 25



## **ACROSS**

5	Always use at least four grade 8 bolts when	
	mounting an engine to an	
10	The next step after the water pump has been	
	removed is to remove the crankshaft	
	damper.	
13	An example of a is a complete	
	engine reconditioning job.	
14	A complete engine reconditioning job is called	
	·	
15	By using a engine, one can be	
	replaced in a day or two, greatly reducing the	
	amount of time the customer is without a vehicle	
DOWN		
DOWN		

- **1** Engines should be \_\_\_\_\_ before disassembly to minimize the chance of warpage of the components that are being removed.
- 2 Additional engine problems that need attention may be noticed after the oil pan is removed and

	the piston and rod assemblies are taken out, this
	procedure is called the engine.
3	Draining the coolant from the radiator and the
	engine block help reduce the chance of coolant
	getting into the cylinders when the
	is removed.
4	A can usually be done without
	removing the engine from the chassis.
6	In some cases, when replacing the engine, only a
	reconditioned block, including the crankshaft,
	rods, and pistons is used, this replacement
	assembly is called a
7	Before the pistons can be removed from the
	clock, the must be removed.
8	The replacement assembly is called a
	when the reconditioned assembly includes the
	heads and valve train.
9	The engine can be lifted out of the with
	the transmission/transaxle attached.
11	replacement is a good example of an
	engine repair option when a timing chain is worn.

12 Valve leakage is corrected by doing a \_\_\_

