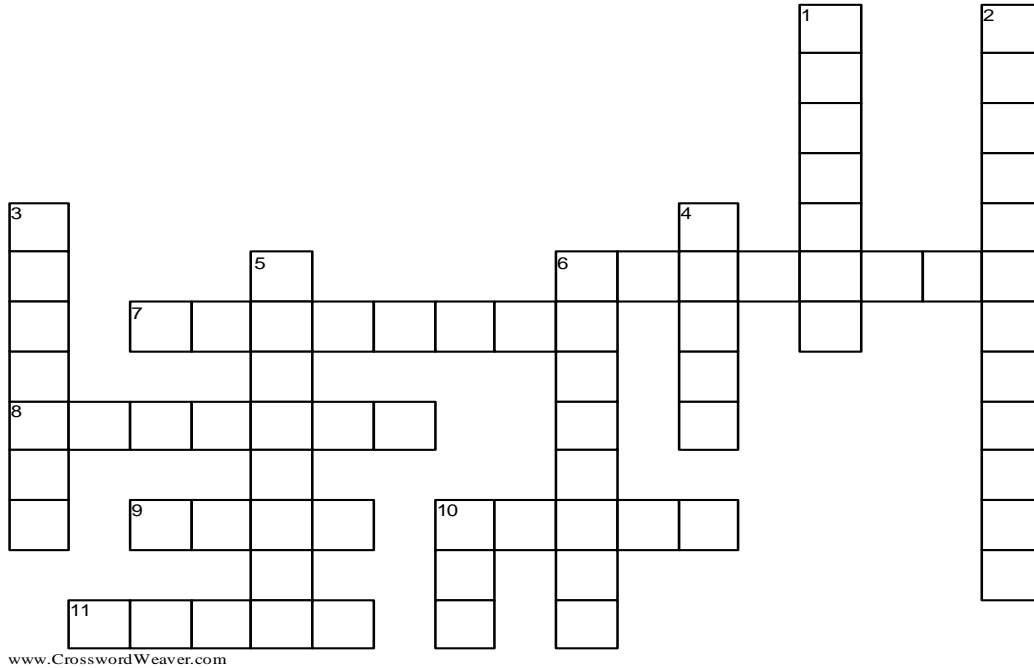


Advanced Engine Performance Diagnosis 8th Edition

Chapter 14

Engine Misfire Diagnosis



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ACROSS

- 6** _____ contribution test: A test that determines how much each cylinder is contributing to engine power output, often used to identify misfiring or underperforming cylinders.
- 7** _____ leakage test: A diagnostic test used to determine where air might be leaking from a cylinder, such as through a valve, piston rings, or head gasket.
- 8** Occurs when a cylinder does not fire correctly, causing the engine to run unevenly and potentially triggering a diagnostic trouble code.
- 9** _____ exhaust indicates that the engine is burning oil.
- 10** _____ smoke or steam from the exhaust is normal during cold weather and represents condensed steam.
- 11** _____ balance test: A test that determines the relative power output of each cylinder, often used to identify weak or misfiring cylinders.

DOWN

- 1** _____ compression test: A test that measures compression in the engine while it is running, to help diagnose issues like restricted exhaust or valve timing problems.
- 2** _____: The pressure that builds up in the exhaust system, which can affect engine performance. Excessive back pressure can indicate a clogged exhaust system.
- 3** _____ compression test: A test that measures the compression pressure in the engine's cylinders during engine operation, typically under load, to assess engine performance in real-time.
- 4** _____ exhaust smoke is due to excessive fuel being burned in the combustion chamber.
- 5** Engine vacuum readings vary with _____.
- 6** _____ compression test: A test that measures the compression in an engine's cylinders while the engine is cranking to assess the condition of the valves, piston rings, and head gasket.
- 10** _____ compression test: A test similar to a dry compression test, but with a small amount of oil added to the cylinder to help seal the piston rings. This test can help differentiate between piston ring and valve problems.