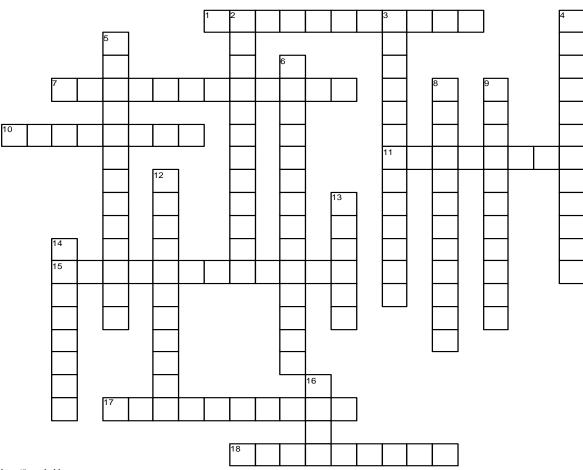
Camshafts And Valve Trains

Chapter 27



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1 The _____ type operates quietly but tends to

ACROSS

	stretch with use.
7	A engine is one that causes no internal
	damage if the camshaft drive belt breaks when the
	engine is running.
0	The camshaft is supported in the block by
	bearings and driven by the crankshaft with a gear or
	sprocket and chain drive.
11	The of the cam is usually expressed in
	decimal inches and represents the distance that the
	valve lifter or follower is moved.
15	is the number of degrees of crankshaft
	rotation during which both intake and exhaust valves ar
	open.
17	Occasionally, engines are run at excessive speeds, the
	tends to throw the valve open, causing
8	camshafts, which use a lightweight tubular
	shaft with hardened steel lobes press-fitted over the
	shaft.

DOWN

2	An engine will cause some of the valves
	that are open to hit the pistons, causing major engine
	damage if the drive belt breaks.
3	Some newer engines have the hydraulic adjustment in
	the rocker arm and are commonly called
	adjusters.
4	If the specifications vary, the camshaft is called
	•
5	Engines with the cam located in the block are called
	pushrod or engines.
6	Another name for a cam follower is a
8	If two chains are used side by side, this type of chain is
	called a chain.
9	The type is noisier but operates with less
	friction and stretches less than the silent type of chain.
12	If the lift is the same, the cam is called
13	will not occur when the engine is operated in
	the speed range for which it is designed.
14	camshafts are either belt or chain driven from
	the crankshaft and are located in the cylinder heads.
16	A gradual rise in the cam contour is called a

