

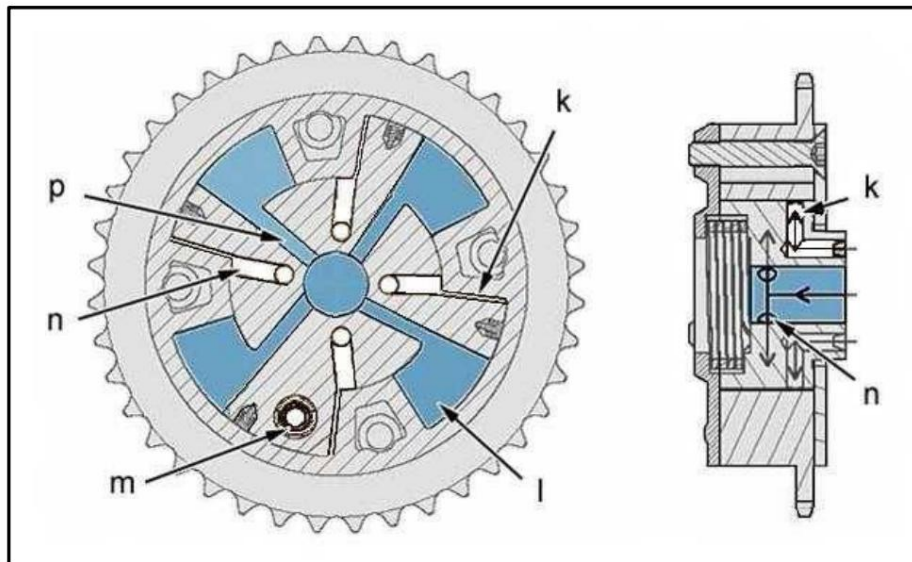
C) OPERATION

Each camshaft phase shifter is controlled by a solenoid valve which modulates the pressure engine oil. Operation is identical for both trees.

Description & operation of a phase shifter:

The camshaft phase shifter control solenoid valves (1268) and (1243) distribute engine oil under pressure into the 4 chambers "k" or the 4 chambers "l".

The difference in oil pressure between chambers "k" and "l" shifts the camshaft.



k: Camshaft phase shifter chamber.

l: Camshaft phase shifter chamber.

m: Camshaft phase shifter locking pin (engine not running).

n: Supply and return channel for rooms "k".

p: Supply and return channel for rooms "l".

The "m" pin locks the position of the variable phase shifter when the oil pressure is low to avoid "flapping" of the system during start-up.

This pin unlocks the phase shifter position as soon as the oil pressure in the chambers reaches approximately 0.5 bar.

Pion « m »

