

Title (en)

A HYDRAULIC CAMSHAFT AND A HYDRAULIC CONTROLLING SYSTEM THEREOF

Title (de)

HYDRAULISCHE NOCKENWELLE UND HYDRAULISCHES STEUERSYSTEM DAFÜR

Title (fr)

ARBRE À CAMES HYDRAULIQUE ET SON SYSTÈME DE COMMANDE HYDRAULIQUE

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Application

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Abstract (en)

The present invention relates to a hydraulic camshaft and its control system; when the engine runs in high and intermediate load, ECU respectively issues four groups of shift signals to the solenoid valve corresponding to the signals of the cam phase sensor. The solenoid valve then changes the oil pressure of the oil channels in the four hydraulic units on the camshaft. The status of the hydraulic units of every two neighboring cylinders is opposite to each other; on-off shift occurs when the cam of each cylinder rotates to the base circle position in orders. The present invention is simple in structure and is practical. The gas intake valve provided in this invention is characteristic of two-stage lift. The engine performance and economical efficiency are improved, and the emission is reduced.

IPC 8 full level

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