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(54) **Stroke-variable engine**

(57) In a stroke-variable engine, the position of a center of gravity of a subsidiary connecting rod is determined so that a distance between the position of the center of gravity of the subsidiary connecting rod and an axis of a crankpin is smaller than a distance between a point of connection of a main connecting rod to the subsidiary connecting rod and the position of the center of gravity as well as a distance between a point of connection of a control rod to the subsidiary connecting rod and the position of the center of gravity. Thus, 0.5-order vibration generated in the subsidiary connecting rod is lowered, engine vibration is suppressed, and noise generated with the vibration is suppressed.

FIG.1

