

TECHNICAL FEATURES

CONTROLLING FUEL DISCHARGE DURATION/2 PROGRAM MAP SYSTEM

Basic fuel discharge duration is determined depending on intake air volume and engine revs which are measured by output voltages from MAP sensor, CKP sensor and TP sensor.

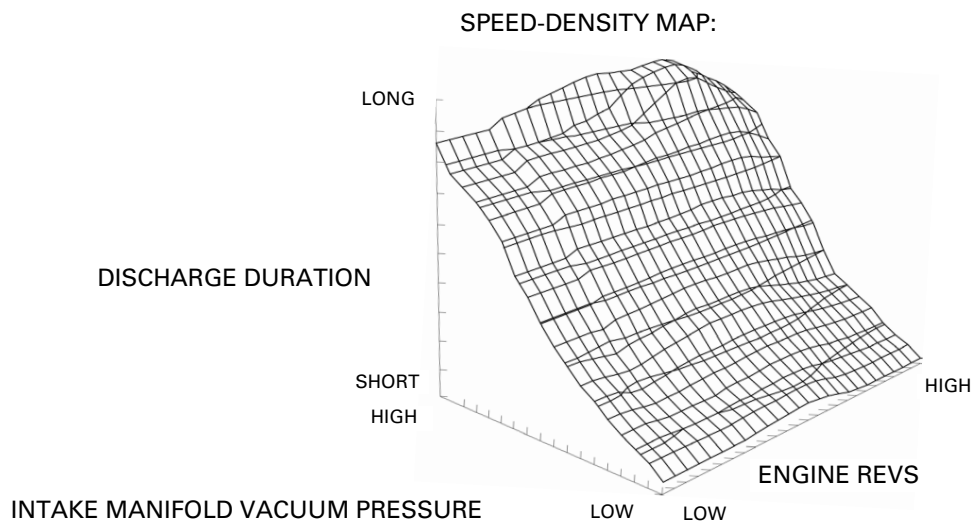
It utilizes two types of program MAP system that regulates the fuel discharge duration: For smaller throttle opening/larger intake manifold vacuum pressure, "Speed-density map" is used while "Speed-throttle map" is used for larger throttle opening/smaller intake manifold vacuum pressure.

MAP: The program that determines the fuel discharge duration depending on two elements (engine revs/intake manifold vacuum pressure or throttle position), shown on the three dimensional graphs below.

Either MAP system program is tailored to the engine, intake and exhaust system which come with the scooter. Replacing any engine parts, intake and exhaust system with the parts that are not designed for this scooter will cause malfunction.

- **SMALL THROTTLE OPENING/HIGH INTAKE MANIFOLD VACUUM PRESSURE**

Basic discharge duration is determined by speed-density map that looks at intake manifold vacuum pressure detected by the MAP sensor and engine revs detected by the CKP sensor.



- **LARGE THROTTLE OPENING/LOW INTAKE MANIFOLD VACUUM PRESSURE**

Basic discharge duration is determined by speed-throttle map that looks at throttle position detected by the TP sensor and engine revs detected by the CKP sensor.

