

4-5 IGNITION SYSTEMS

A. Description of Operation

The ignition system consists of the components as shown below. As the flywheel rotates, the contact breaker points begin to open and close, alternately. This make-and-break operation develops an electromotive force in the ignition power source coil, and produces a voltage in the ignition coil primary windings. The ignition coil is a kind of transformer, with a 1:50 turns ratio of the primary to the secondary winding. The voltage (150~300V) which is produced in the primary coil, is stepped up to 12,000~14,000V by mutual-induction and the electric spark jumps across the spark plug electrodes.

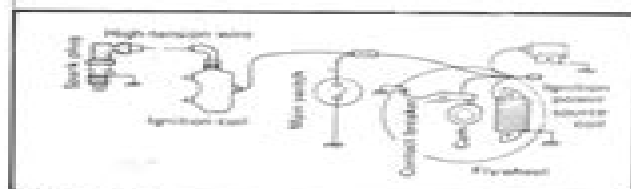


Fig. 160

B. Ignition Timing

Refer to Chapter 2, Engine Tuning, for ignition timing procedure.

C. Spark Gap Test

The entire ignition system can be checked for misfire and weak spark using the Electro-Tester. If the ignition system will fire across a sufficient gap, the entire ignition system can be considered good. If not, proceed with individual component tests until the problem is found.

1. Warm-up engine thoroughly so that all electrical components are at operating temperature.

2. Stop engine and connect tester as shown.

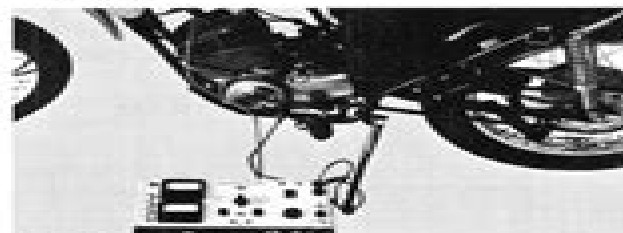


Fig. 161

3. Start engine and increase spark gap until misfire occurs. (Test at various R.P.M.'s between idle and red line.)

MINIMUM SPARK GAP: 0.0019 in.
5 mm

D. Ignition Coil

1. Coil spark gap test

- a. Remove fuel tank and disconnect ignition coil from wire harness and spark plug.
- b. Connect Electro Tester as shown.
- c. Connect fully charged 6V. Battery to tester.
- d. Turn on spark gap switch and increase gap until misfire occurs.



Fig. 162

MINIMUM SPARK GAP: 0.0024 in.
6 mm

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