

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.

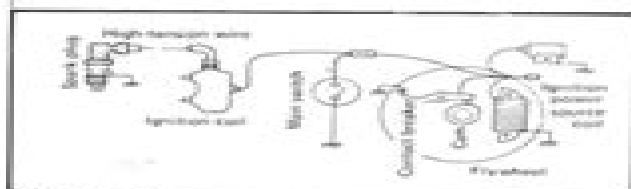


Fig. 160

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.

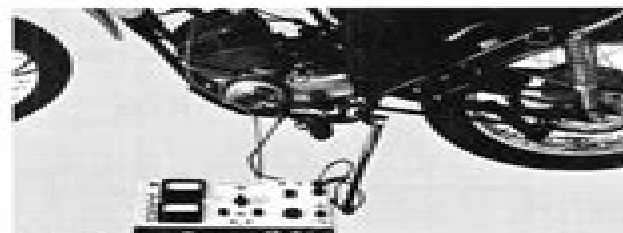


Fig. 161

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

Yamaha It 175 Manual

Jiyuan Zhang



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Table of Contents Yamaha It 175 Manual

1. Understanding the eBook Yamaha It 175 Manual
 - The Rise of Digital Reading Yamaha It 175 Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Yamaha It 175 Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Yamaha It 175 Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Yamaha It 175 Manual
 - Personalized Recommendations
 - Yamaha It 175 Manual User Reviews and Ratings
 - Yamaha It 175 Manual and Bestseller Lists

5. Accessing Yamaha It 175 Manual Free and Paid eBooks
 - Yamaha It 175 Manual Public Domain eBooks
 - Yamaha It 175 Manual eBook Subscription Services
 - Yamaha It 175 Manual Budget-Friendly Options
6. Navigating Yamaha It 175 Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Yamaha It 175 Manual Compatibility with Devices
 - Yamaha It 175 Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Yamaha It 175 Manual
 - Highlighting and Note-Taking Yamaha It 175 Manual
 - Interactive Elements Yamaha It 175 Manual
8. Staying Engaged with Yamaha It 175 Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Yamaha It 175 Manual
9. Balancing eBooks and Physical Books Yamaha It 175 Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Yamaha It 175 Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Yamaha It 175 Manual
 - Setting Reading Goals Yamaha It 175 Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Yamaha It 175 Manual
 - Fact-Checking eBook Content of Yamaha It 175 Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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