

FEATURES

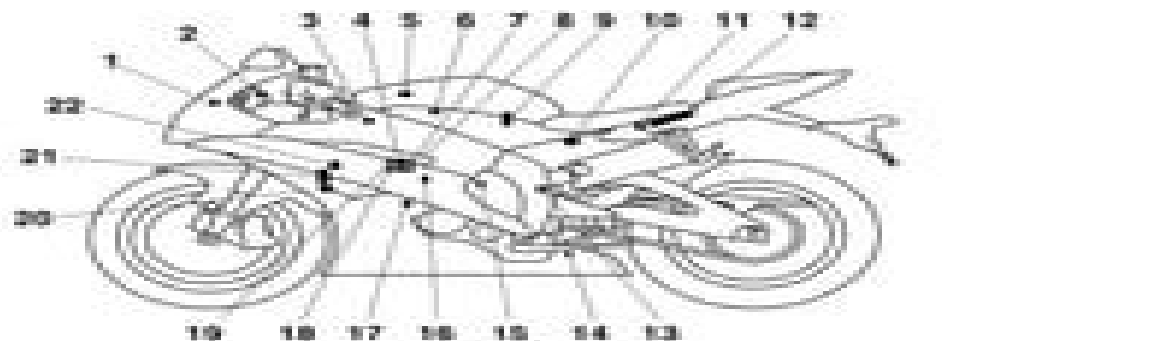
OUTLINE OF THE FI SYSTEM

The main function of a fuel supply system is to provide fuel to the combustion chamber at the optimum air-fuel ratio in accordance with the engine operating conditions and the atmospheric temperature. In the conventional carburetor system, the air-fuel ratio of the mixture that is supplied to the combustion chamber is created by the volume of the intake air and the fuel that is metered by the jet used in the respective carburetor.

Despite the same volume of intake air, the fuel volume requirement varies by the engine operating conditions, such as acceleration, deceleration, or operating under a heavy load. Carburetors that meter the fuel through the use of jets have been provided with various auxiliary devices, so that an optimum air-fuel ratio can be achieved to accommodate the constant changes in the operating conditions of the engine.

As the requirements for the engine to deliver more performance and cleaner exhaust gases increase, it becomes necessary to control the air-fuel ratio in a more precise and finely tuned manner. To accommodate this need, this model has adopted an electronically controlled fuel injection (FI) system, in place of the conventional carburetor system. This system can achieve an optimum air-fuel ratio required by the engine at all times by using a microprocessor that regulates the fuel injection volume according to the engine operating conditions detected by various sensors.

The adoption of the FI system has resulted in a highly precise fuel supply, improved engine response, better fuel economy, and reduced exhaust emissions.



1. Air temperature sensor
2. Engine trouble warning light
3. Air induction system solenoid
4. Throttle servo motor
5. Atmospheric pressure sensor
6. Secondary injectors
7. Primary injectors
8. Intake air pressure sensor
9. Fuel pump
10. Relay unit (fuel pump relay)
11. Lean angle sensor
12. ECU (engine control unit)
13. ECU's servo motor
14. O₂ sensor

15. Speed sensor
16. Coolant temperature sensor
17. Crankshaft position sensor
18. Throttle position sensor (for throttle cable pulley)
19. Throttle position sensor (for throttle valves)
20. Spark plug
21. Ignition coil
22. Cylinder identification sensor

2007 Yamaha Yzfr6 Operators Manual

Haynes Publishing

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the Haynes Publishing text.

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Yamaha YZF-R6 Service & Repair Manual Matthew Coombs, 2007 Written by Matthew Coombs this is a service and repair manual for the DIY motorcycle mechanic This title focuses on the Yamaha YZF R6 motorcycle **Yamaha YZF-R6** Tim Griffiths, 2020 **Yamaha YZF-R6, '99-'02** Haynes Publishing, 2020-02-25 Each Haynes manual provides specific and detailed instructions for performing everything from basic maintenance and troubleshooting to a complete overhaul of the machine in this case the Yamaha YZF R6 model years 1999 through 2002 Do it yourselfers will find this service and repair manual more comprehensive than the factory manual making it an indispensable part of their tool box A typical Haynes manual covers general information troubleshooting lubrication and routine maintenance engine top end engine lower end primary drive clutch and external shift mechanism transmission and internal shift mechanism engine management system electrical system wheels tires and drivebelt front suspension and steering rear suspension brakes body and color wiring diagrams An index makes the manual easy to navigate *Yamaha YZF-R6*

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internal shift mechanism engine management system electrical system wheels tires and drivebelt front suspension and steering rear suspension brakes body and color wiring diagrams An index makes the manual easy to navigate **Yamaha RD400 Twin Owners Workshop Manual** Mansur Darlington,1984 Yamaha FS1E, FS1 and FS1M Owners Workshop Manual Mervyn Bleach,Jeremy Churchill,1984-01-01

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