

## 1 General information and precautions

### General information

The IAW Weber-Marelli single point injection (SPI) system is a self-contained engine management system, which controls both the fuel injection and ignition (see illustration). This Chapter deals with the fuel injection system components only - refer to Chapter 5B for details of the ignition system components.

The fuel injection system comprises a fuel tank, an electric fuel pump, a fuel filter, fuel supply and return lines, a throttle body with an integral electronic fuel injector, and an Electronic Control Unit (ECU) together with its associated sensors, actuators and wiring.

The fuel pump delivers a constant supply of fuel through a cartridge filter to the throttle body, and the fuel pressure regulator (integral with the throttle body) maintains a constant fuel pressure at the fuel injector and returns excess fuel to the tank via the return line. This

constant flow system also helps to reduce fuel temperature and prevents vaporisation.

The fuel injector is opened and closed by an Electronic Control Unit (ECU), which calculates the injection timing and duration according to engine speed, throttle position and rate of opening, inlet air temperature, coolant temperature and exhaust gas oxygen content information, received from sensors mounted on the engine.

Inlet air is drawn into the engine through the air cleaner, which contains a renewable paper filter element. The inlet air temperature is regulated by a vacuum operated valve mounted in the air ducting, which blends air at ambient temperature with hot air, drawn from over the exhaust manifold.

Idle speed is controlled by a stepper motor located on the side of the throttle body. Cold starting enrichment is controlled by the ECU using the coolant temperature and inlet air temperature parameters to increase the injector opening duration.

The exhaust gas oxygen content is constantly monitored by the ECU via the Lambda (oxygen) sensor, which is mounted in

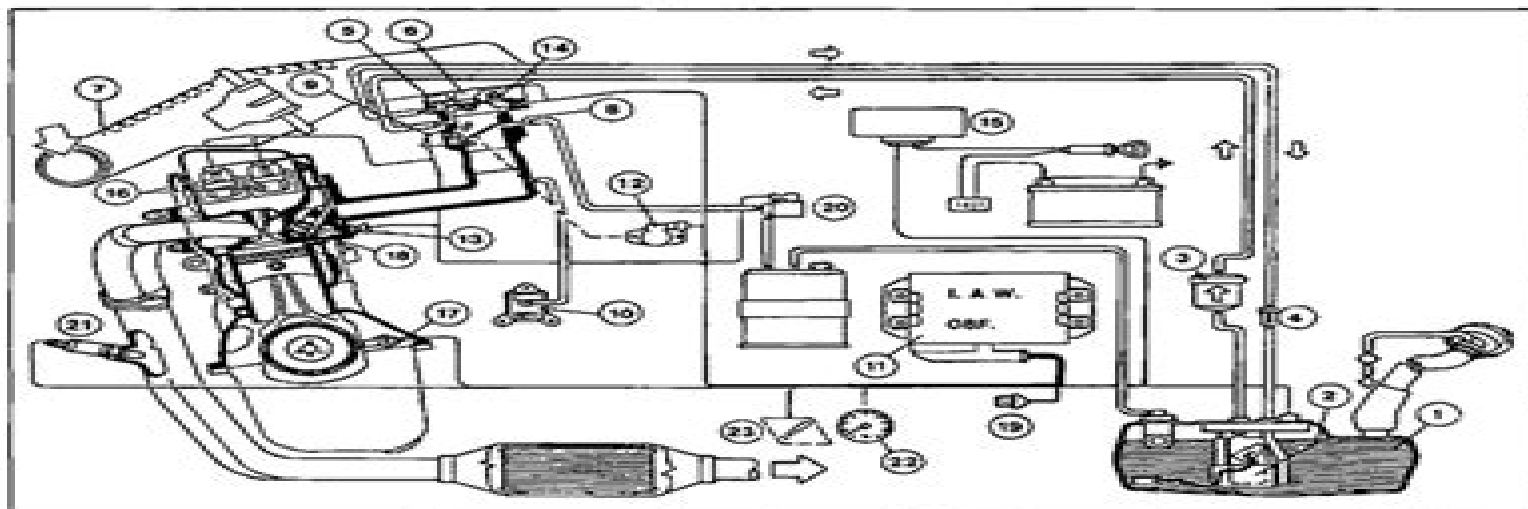
the exhaust downpipe. The ECU then uses this information to modify the injection timing and duration to maintain the optimum air/fuel ratio. An exhaust catalyst is fitted to all SPI models. The ECU also controls the operation of the activated charcoal filter evaporative loss system - refer to Chapter 4D for further details.

It should be noted that fault diagnosis of the IAW Weber-Marelli system is only possible with dedicated electronic test equipment. Problems with the system should therefore be referred to a Fiat dealer for assessment. Once the fault has been identified, the removal/fitting procedures detailed in the following Sections can then be followed.

### Precautions



**Warning:** Many procedures in this Chapter require the removal of fuel lines and connections, which may result in fuel spillage. Before carrying out any operation on the fuel system, refer to the precautions given in Safety first at the beginning of this manual, and follow them implicitly. Petrol is a highly dangerous and volatile liquid, and the precautions



1.1 IAW Weber-Marelli single point injection (SPI) system

- |                           |                             |                                      |                              |
|---------------------------|-----------------------------|--------------------------------------|------------------------------|
| 1 Fuel tank               | 7 Air cleaner               | 13 Engine coolant temperature sensor | 18 Spark plugs               |
| 2 Fuel pump               | 8 Fuel vapour trap          | 14 Intake air temperature sensor     | 19 Diagnostic socket         |
| 3 Fuel filter             | 9 Idle stepper motor        | 15 Injection/ignition fuel relay     | 20 EVAP solenoid             |
| 4 Anti-reflux valve       | 10 Absolute pressure sensor | 16 Ignition coils                    | 21 Lambda/oxygen sensor      |
| 5 Fuel pressure regulator | 11 Injection/ignition ECU   | 17 Rpm and FDC sensor                | 22 Rev counter               |
| 6 Injector                | 12 Throttle position sensor |                                      | 23 IAW failure warning light |

# Iaw Fuel System Manual

**Wolfgang Guggemos**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## **Iaw Fuel System Manual:**

This book delves into Iaw Fuel System Manual. Iaw Fuel System Manual is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Iaw Fuel System Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Iaw Fuel System Manual
- Chapter 2: Essential Elements of Iaw Fuel System Manual
- Chapter 3: Iaw Fuel System Manual in Everyday Life
- Chapter 4: Iaw Fuel System Manual in Specific Contexts
- Chapter 5: Conclusion

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3. In chapter 2, this book will delve into the foundational concepts of Iaw Fuel System Manual. The second chapter will elucidate the essential principles that must be understood to grasp Iaw Fuel System Manual in its entirety.
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6. In chapter 5, the author will draw a conclusion about Iaw Fuel System Manual. The final chapter will summarize the key points that have been discussed throughout the book.

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