

FUEL SUPPLY

HIGH-PRESSURE ELECTRONIC INJECTION SYSTEM (EHC 14)

General

The main characteristics of the high pressure electronic injection system are:

- high injection pressure available (1400 bar)
- flow pressure up to 1000 bar (between 1500 bar up to the maximum operating pressure of 1400 bar irrespective of the speed of rotation and engine load)
- capacity to operate at very high speeds (up to 5000 rpm)
- injection control precision (injection duration and amount)
- lower consumption
- lower emissions

The main functions of the system are basically as follows:

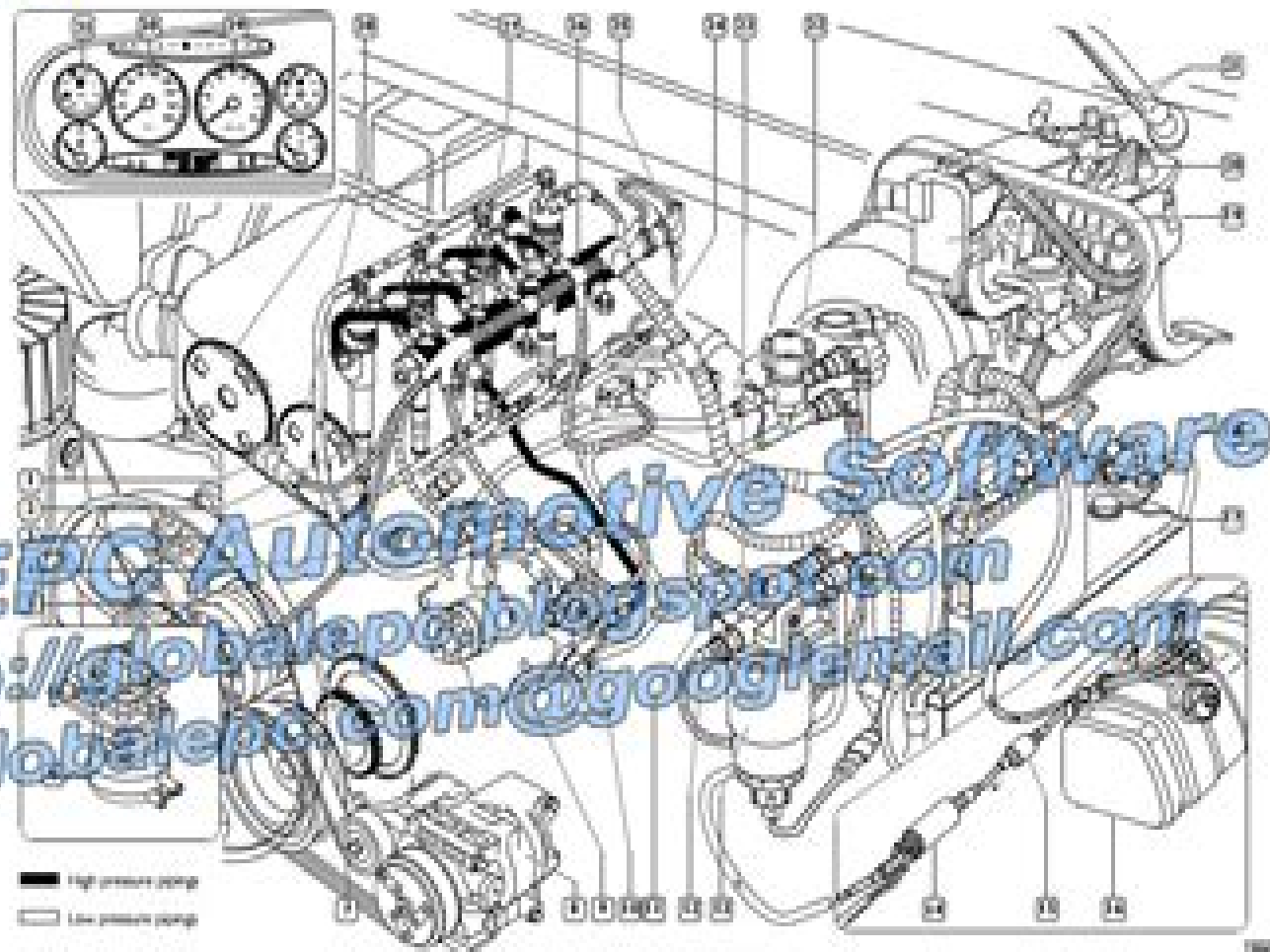
- checking fuel temperature
- checking engine coolant temperature
- checking amount of fuel injected
- checking idling speed
- cutting off fuel in idling phase
- checking cylinder balancing when idling
- checking air-cleaning
- checking emissions at idling or acceleration
- checking exhaust gas recirculation (EGR, if present)
- checking top speed limit
- checking glow plug
- checking situation of air conditioning system (if any)
- checking auxiliary fuel pump
- checking position of valves
- checking main and pilot injection amounts
- checking closed cycle of injection pressure
- checking temperature of

The EHC 14 makes pre-injection (pilot injection) before the TOC with the storage of energy. It also detects the pressure in the combustion chamber, allowing the main level of combustion, which is typical of diesel injection engines.

The control unit checks the amount of fuel injected, adjusting the flow. The information is sent to the engine control unit, which controls the amount of fuel injected.

- engine speed
- coolant temperature
- turbocharging pressure
- air temperature
- intake air quantity
- battery voltage
- diesel pressure
- position of throttle pedal

Figure 14-1



HIGH-PRESSURE ELECTRONIC INJECTION SYSTEM COMPONENTS LOCATION SCHEME

1. Stroke sensor - 2. Electric injector - 3. Preheating glow plug - 4. Coolant temperature sensor for EDC - 5. Thermopile for - 6. Heatsink for EGR, valve (if present) - 7. Engine speed sensor - 8. Compressor (if present) - 9. High pressure pump - 10. Pressure regulator - 11. Fuel temperature sensor - 12. Fuel filter clogging sensor - 13. Fuel filter - 14. Electric fuel pump - 15. Fuel prefilter - 16. Fuel line - 17. Battery - 18. Control unit with atmospheric pressure sensor - 19. Accelerator pedal sensor - 20. Turbo pedal sensor - 21. Brake pedal sensor - 22. Fuel rail return valve - 23. Heater - 24. Air pressure/temperature sensor - 25. Hydraulic accumulator (fuel pressure sensor) - 26. Hydraulic accumulator (pilot) - 27. Transistor for thermometer and cooling temp. temperature/degree - 28. Gear with able to detect stroke from sensor (1) - 29. Engine modulation inducer - 30. Telegraph - 31. Thermistor wiring inducer

Iveco Daily Engine Service Manual

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Table of Contents Iveco Daily Engine Service Manual

1. Understanding the eBook Iveco Daily Engine Service Manual
 - The Rise of Digital Reading Iveco Daily Engine Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Iveco Daily Engine Service 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 Iveco Daily Engine Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Iveco Daily Engine Service Manual
 - Personalized Recommendations

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