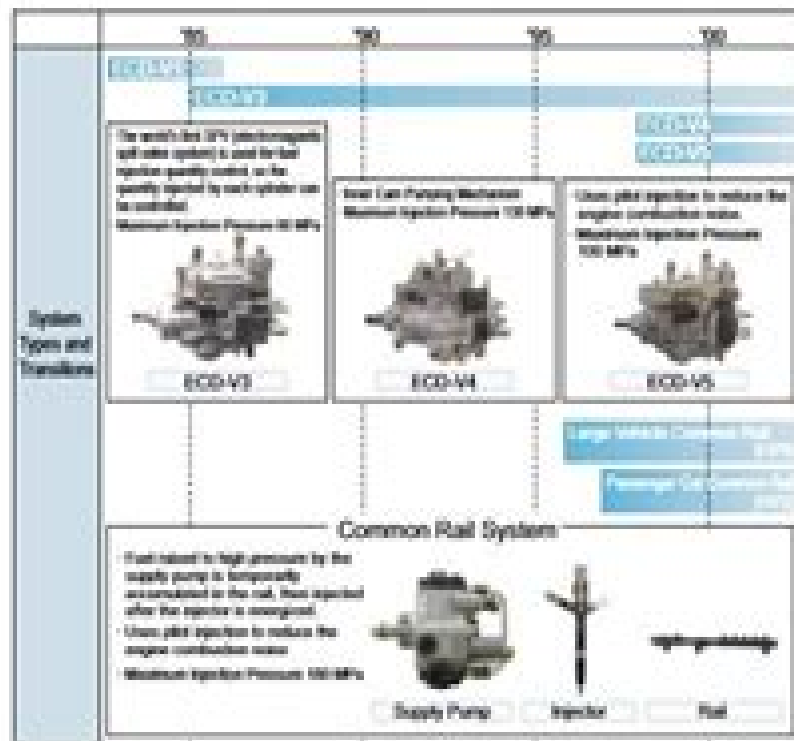


## TYPES OF AND TRANSITIONS IN ECD (ELECTRONICALLY CONTROLLED DIESEL) SYSTEMS

- ECD systems include the ECD-V series (V3, V4, and V5) which implements electronic control through distributed pumps (V3 type pumps) and common rail systems made up of a supply pump, rail, and injectors. Types are the ECD-V3 and V4 for passenger cars and trucks, the ECD-V4 that can also support small trucks, common rail systems for trucks, and common rail systems for passenger cars and trucks. In addition, there are 2nd generation common rail systems that support both large vehicle and passenger car applications. The chart below shows the characteristics of these systems.



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## COMMON RAIL SYSTEM CHARACTERISTICS

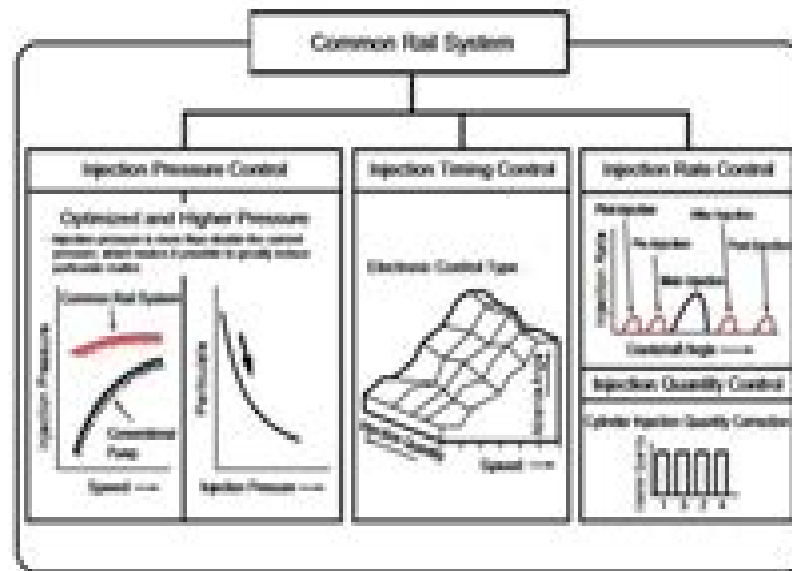
- The common rail system uses a type of accumulation chamber called a rail to store pressurized fuel, and injectors that control electronically controlled external valves to inject the pressurized fuel into the cylinders.
- Because the engine ECU controls the injection system (including the injection pressure, injection rate, and injection timing), the injection system is independent and thus unaffected by the engine speed or load.
- Because the engine ECU can control injection quantity and timing to a high level of precision, even multi injection (puls type fuel injections in one injection stroke) is possible.
- This ensures a stable injection pressure at all times, even in the low engine speed range, and dramatically decreases the amount of black smoke initially emitted by a diesel engine during start up and acceleration. As a result, exhaust gas emissions are cleaned and reduced, and higher power output is achieved.

### ECD-V5

- For the background of common rail fuel injection systems, see the materials at the end of this document.

### A. Features of Injection Control

- Injection Pressure Control**
  - Enables high-pressure injection even at low engine speeds.
  - Optimizes control to minimize particulate matter and NOx emissions.
- Injection Timing Control**
  - Enables truly linear optimized control in accordance with driving conditions.
- Injection Rate Control**
  - Pilot injection control injects a small amount of fuel before the main injection.



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# Commonrail Repair Service Manual

**Richard Bailey**



## **Commonrail Repair Service Manual:**

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In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Commonrail Repair Service Manual**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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