



Paisley News



January 2013

J . E . PAISLEY & CO LTD

**For all your Diesel Fuel Injection
& Turbocharger Requirements**

**4 Nen Street
Oamaru**

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New Stock

Return line fittings for
common rail injectors



D4 washer kit

Suction control valves kits
available for:

SV1 Toyota

SV2 Nissan and Isuzu

SV3 Mitsubishi



Bosch EPS200. The EPS200 is a stand alone common rail injector tester, able to comprehensively test common rail and two spring type injectors. The tester will perform the following checks;

Nozzle leakage test

Electrical leakage check

Spray pattern check

Electrical chatter check

Idle and Full load fuel delivery measurement

Backflow quantity

1st and 2nd opening pressures on two spring injectors

Bosch, Delphi and Denso and Siemens

Can you all please drain and plastic bag pumps before sending as the couriers are having coronary's with boxes soaked in diesel. Your assistance is appreciated

Does not apply to parts only sales

FREE FREIGHT AND LOLLIES

Authorised Service to the world's leading Diesel Fuel Injection systems



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Common Rail Suction control valve and gear pump
failures

The suction control valve regulates fuel quantity, when the valve is open fuel quantity decreases, when the valve is closed fuel quantity increases. Some valve are energized to open while others are energized while closed.

Common problems related to the SCV on the vehicle are stalling, hard starting and hunting, sometimes a low rail pressure code will be logged. Typically the SCV piston will be heavily tarnished or scored from metal particles causing the valve to become erratic in operation.

Scoring of the suction control valve is often caused by fine particles of metal being dislodged from the pre-supply pump lobes. These metal particles can also cause pre-mature injector failure, something to keep in mind when replacing injectors on high mileage vehicles as it may well be worth considering having the high pressure pump removed and the gear pump lobes checked for wear. It is not possible to remove and replace the gear pump on the vehicle due to alignment issues. Failure to correctly align the gear pump rotors and cover will result in total failure of the high pressure pump assembly.



High pressure pump failure



Worn gear pump



Scored SCV piston