

Remanufactured Summary				Legend:
Tag ID	POP	MIP	Δ	
R1	1765	1724	41	R 1: Remanufactured
R3	1739	1713	26	D1: DYI Refurbished
R5	1743	1706	37	POP: Opening Pressure
R7	1771	1731	40	MIP: Mean Injection Pressure (based on 20 data points)
				Δ : Difference between POP and MIP
DIY Refurbished Summary				Comments:
D1	1770	1696	74	- Fuel spray atomization quality is better when the difference between the POP and MIP is smaller.
D2	1720	1652	68	- It is more efficient to buy remanufactured Bosch injectors instead of repairing old ones. Soaking the old complete unit in carburetor cleaner overnight, rinsing in isopropyl alcohol using ultrasonic cleaner for one hour. Repeat for the internal parts after disassembly except for the pin. New nozzles with issues are not returnable to the seller. Shims to adjust the pressure are required. Very time consuming iteration of assembly, test, disassembly, etc. Spring rate (300 N/mm or 30.59 g/ μ m - to be verified) of the old springs is difficult to determine if it's an issue. Time consuming measurement of needle lift, typical ranges: 0.012mm - 0.027mm (to be verified). Lapping of nozzle valve body if lift is too great. After all this effort, the remanufactured injectors have better performance.
D3	1784	1714	70	
D4	1751	1670	81	