



Common Rail

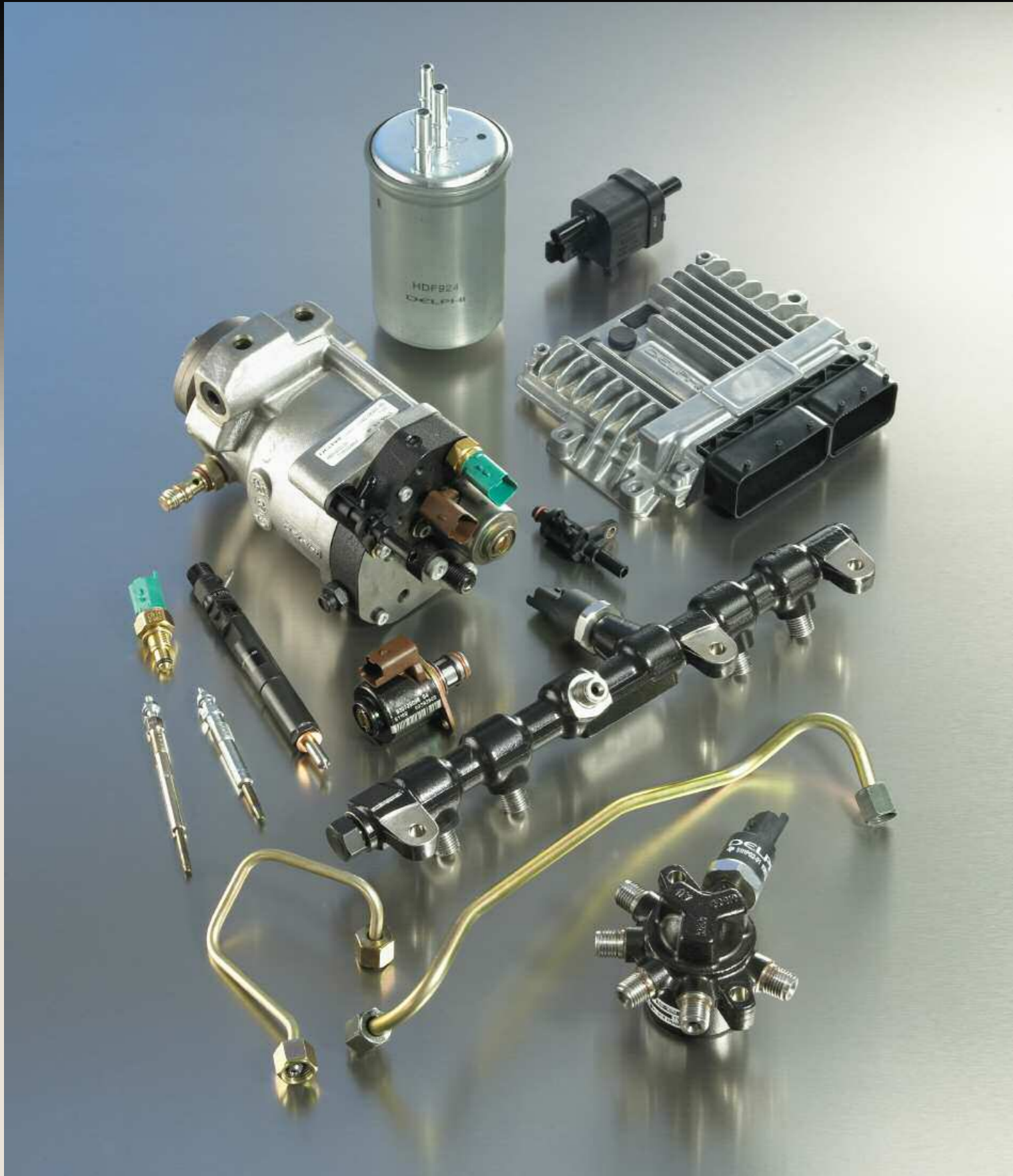
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Introduction to Common Rail

Common Rail is a fundamental change in diesel technology and it is happening now.

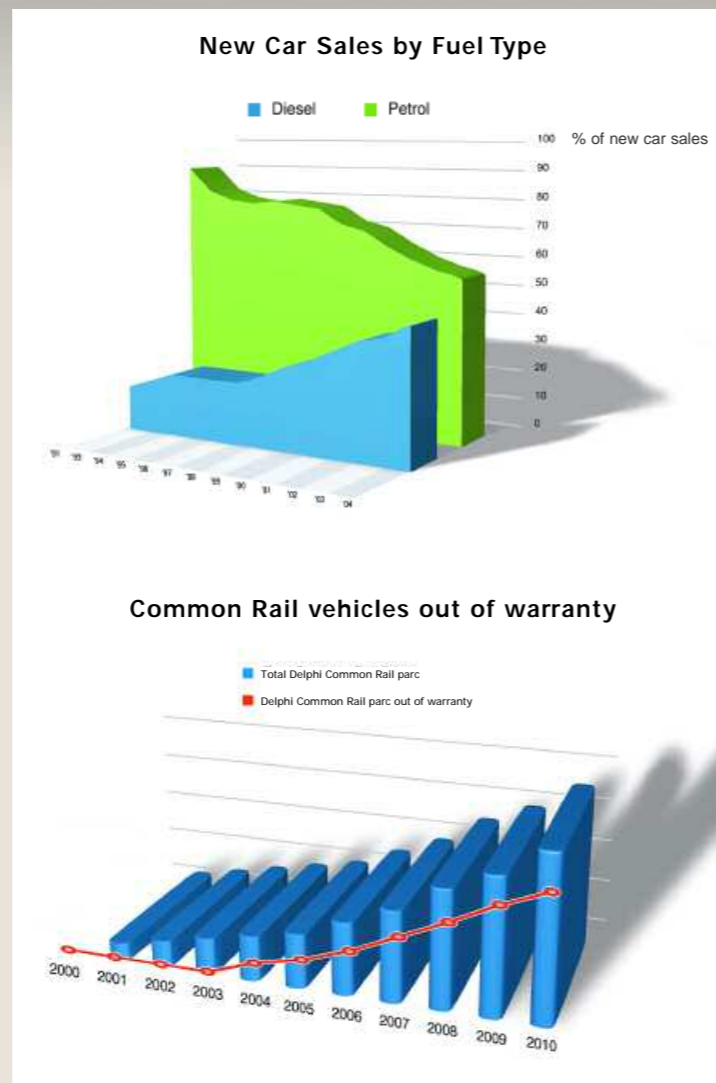
The modern direct-injection engine is a pre-requisite for new diesel-powered passenger vehicles across Europe. It is the only technology to address all planned European emissions legislation, whilst enhancing reliability, performance and fuel economy.

The number of diesel cars we see on our roads is constantly growing. In Europe alone, this growth is predicted to continue at an average rate of 10% per annum, with Common Rail systems growing by 35% per year.

Delphi's Common Rail

Delphi Diesel Systems has been involved in Common Rail technology from the beginning. Some of the very first systems were pioneered by Delphi with systems fitted to, among others, Ford, Jaguar, Renault, Peugeot-Citroen, Mercedes-Benz, Nissan, SsangYong, Kia and Hyundai applications. The number of vehicle manufacturers fitting Delphi's Common Rail systems continues to grow, with new contracts regularly being announced.

Delphi Diesel is committed to supporting vehicle manufacturers and the automotive aftermarket in harnessing this growing market, with total Delphi Diesel Common Rail parc expected to reach 14 million vehicles by 2011.



“Common Rail is the automotive technology of the future”

Euro Standard	Year of Introduction	Particulates FM g/km	Oxides of Nitrogen NOX, g/km
I	1992	0.14	0.97
II (DI)	1996	0.1	0.9
II (IDI)	1996	0.08	0.7
III	2000	0.05	0.5
IV	2005	0.025	0.25
V	2008	0.005	0.2

Emissions

With European emissions regulations for new light duty vehicles (cars and light commercial vehicles) getting tighter and tighter, it is imperative that the Common Rail system meets these requirements.

European emissions standards are evolving regularly and Delphi has always reacted accordingly to ensure that its Common Rail systems meet the latest requirements, and are in a position to be at the forefront of emission-controlled technology.

The current European emissions standard is Euro IV, with Euro V coming soon. The accompanying table shows movement through the European standards.

The Future

From the current environmental and market trends, it is easy to see why Common Rail technology is going to play a major part in the business of everyone involved in diesel vehicles.

Delphi has made a substantial investment in preparing its authorised distributors to deal with the new technology, both in new Common Rail product technology and in diagnostics, equipment and training. With increasing numbers of vehicles equipped with Delphi components coming out of warranty, this spells exciting opportunities in the future.

“Delphi is at the forefront of emissions-controlled technology”



The Delphi Common Rail System

A Common Rail engine is designed to supply constant fuel pressure to electronically controlled injectors, meaning the fuel supply is not dependant upon engine speed.

The system is made up of a number of components, with each performing a role that is vital to the overall running of the system. The high pressures (up to 2000 bar) inherent in Common Rail systems mean that any fault must be diagnosed and the faulty component replaced immediately. Failure to do so can result in prolonged damage to the system and engine.

The accompanying diagram depicts the layout of the Common Rail system and the placement of many of the components within it.

HIGH PRESSURE PIPE

Transports fuel at high pressure between pump and rail, rail and injectors, resistant to pressure changes and totally sealed from the outside world.



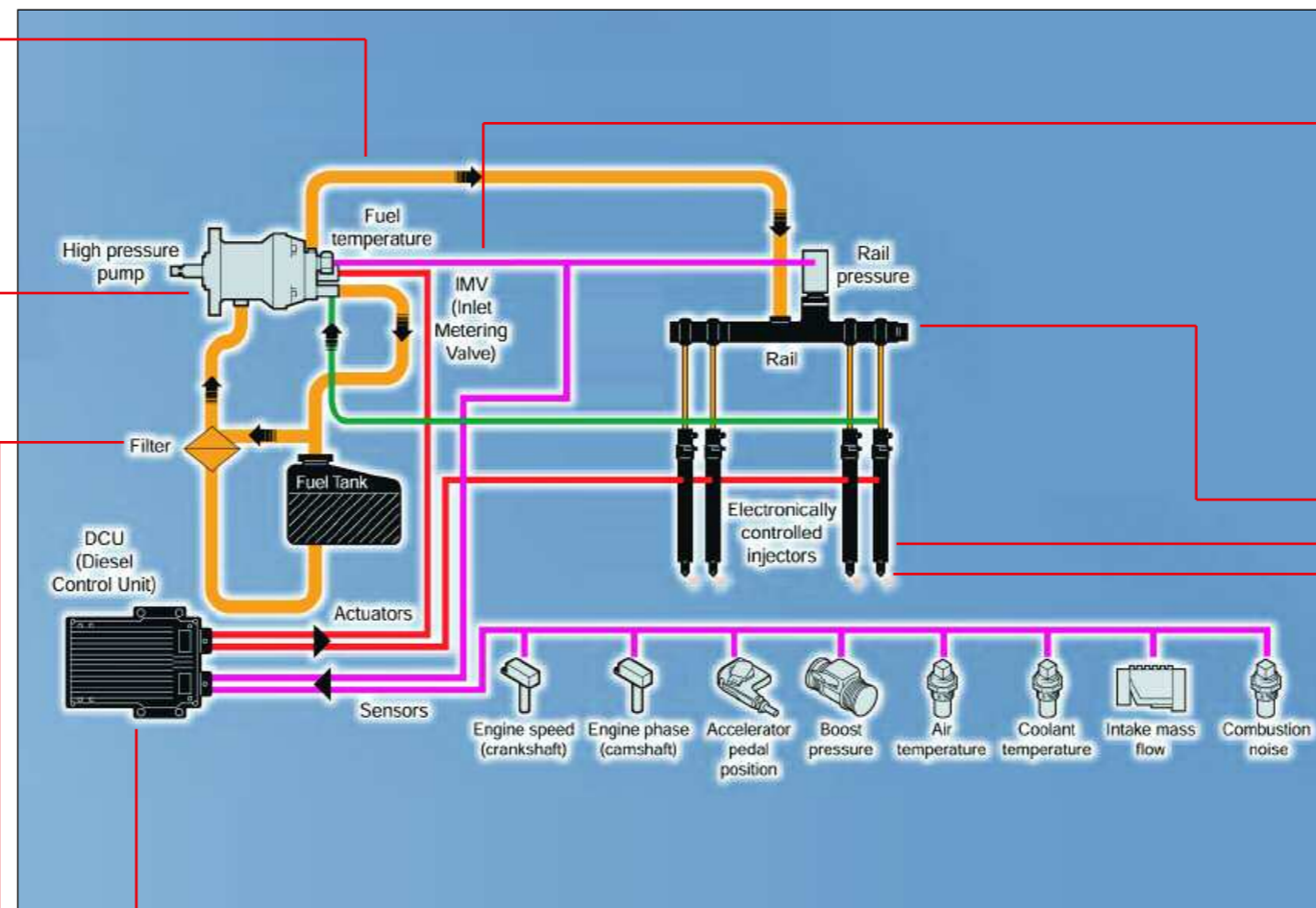
HIGH PRESSURE PUMP

The pump generates the high pressure. This then accumulates in the injection rail and is redistributed to the injectors via the HP pipe.



FILTER

Due to high injection pressures and small nozzle size of the Common Rail system, the cleanliness of the fuel is of even greater importance. The fuel filter traps particles down to as little as 2 microns.



DCU

The DCU is the 'brains'. It controls the functions of the Common Rail system, such as flow and advance and is used in diagnosis to determine faults within the system.



GLOW PLUG

Glow Plugs are critical to the smooth, efficient starting of diesel engines. They ensure sound cold engine performance and emissions control.



IMV

The IMV is used to control the pressure in the rail by regulating the amount of fuel sent to the pumping components of the high pressure pump.



RAIL

The rail is a high pressure accumulator. The HP sensor on the rail is used to transmit the pressure value in the rail to the DCU. This value is used to calculate the flow and injection advance.



INJECTORS

The injector is a vital component within the system, regulating the exact amount of fuel delivered into the combustion chamber. The precise opening and closing of the injectors is electronically controlled by electrovalves that are installed in each nozzle holder body.





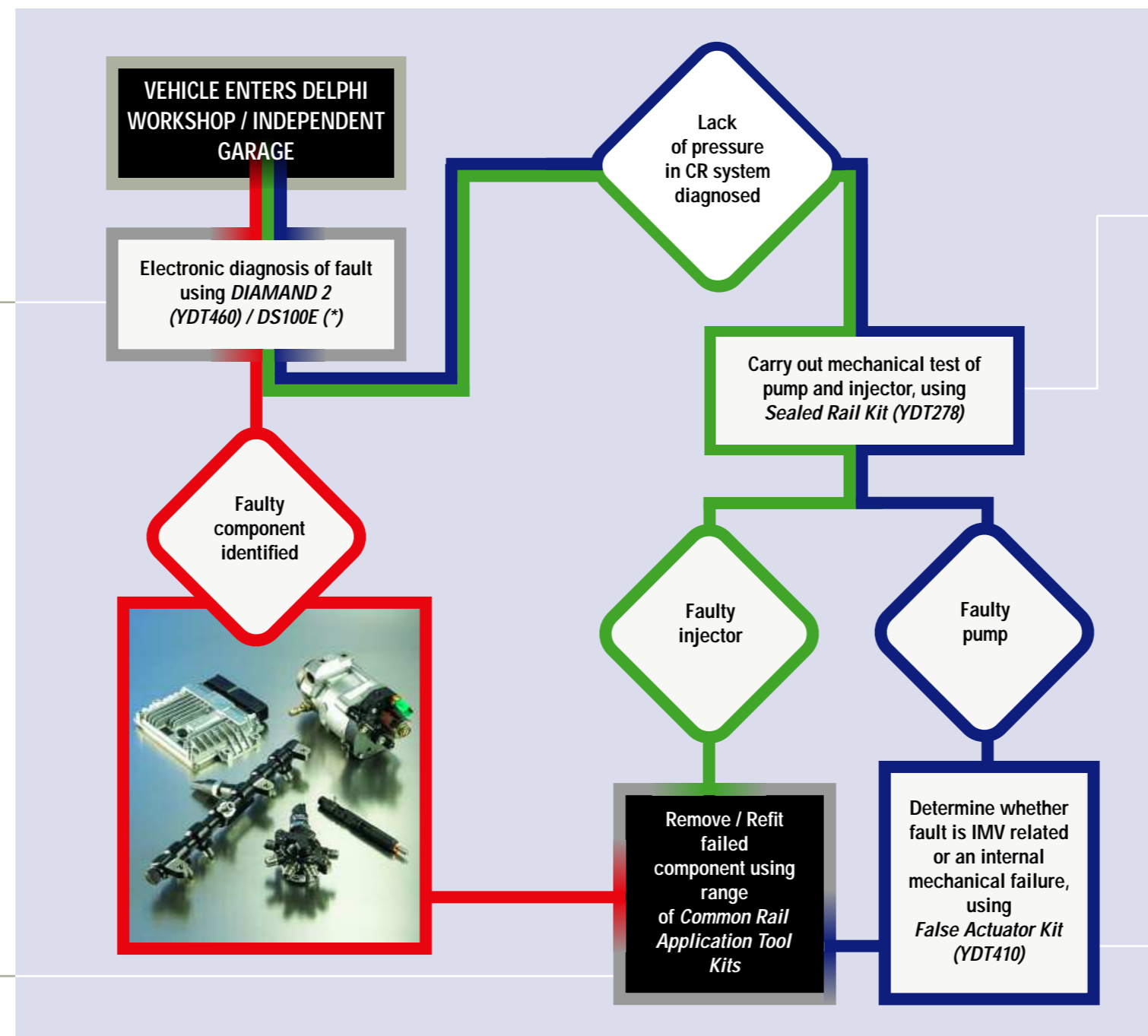
Diagnostic and Test Equipment

The introduction of Common Rail diesel injection systems has brought with it new requirements for diagnostics and vehicle servicing. As an OE Common Rail manufacturer, Delphi has met these challenges head-on by providing a dedicated range of diagnostics and tooling.

Delphi's suite of diagnostic tools ensures that technicians have the ability to interrogate the vehicle's electronic and mechanical systems in order to identify the faulty component. Delphi also provides a range of tools to ensure that the faulty component can be quickly removed from the vehicle and a replacement unit fitted.



Generic Tool Kit	YDT200
Renault K9 Kit	YDT201
Ford Lynx Kit	YDT202
Ford Puma Kit	YDT209
Kia / Hyundai Kit	YDT230
PSA DV4 Kit	YDT250
Ssangyong Kit	YDT381
PSA DW10B	YDT474



DS100E



*Please note that all Delphi CR applications are exclusive to DIAMAND 2 for the first 2 years after vehicle launch. DIAMAND 2 is available only to authorised Delphi Diagnostic Centres with the required clean room facilities.



Common Rail Pumps

The demand for reduced emissions and improved performance means that diesel fuel injection has come a long way since the rotary pump product of yesteryear. The Common Rail system has now put the new generation of diesel engines on a par with petrol engines.

A Common Rail engine is designed to supply constant fuel pressure to electronically controlled injectors through a shared fuel reservoir. This means that the fuel supply is not dependant on engine speed.

At the heart of the Common Rail system is the fuel pump. This is a vital component which generates the high pressure within the system. The pump receives the fuel from the tank via the filter, and then passes it under pressure to the rail, via a pipe.

Delphi Common Rail pumps are fitted to a number of OE applications including Ford, SsangYong, Mercedes-Benz, PSA and Renault.

“The pump is the heart of the Common Rail system”



Common Rail Injectors

The objective of the Common Rail injection system is to be able to control the advance, injection duration and pressure individually, in a way that manages the combustion perfectly – cylinder by cylinder – depending on the working conditions of the engine.

The Common Rail injector is a vital component within the system, regulating the exact amount of fuel that is delivered into the combustion chamber. The precise opening and

closing of the injectors is electronically controlled by electrovalves that are installed in each nozzle holder body.

Delphi Common Rail injectors are fitted to a number of the most popular vehicles of the world's largest vehicle manufacturers, including Renault, Ford and Kia.



Pumps and Injectors – Applications

Manufacturer	Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Pump	Injector
CITROEN									
	C3	1.4 HDi 16v	DV4TED4	92	4	02/02 →	Euro III	9042A023A	R01001A
	C3 XTR	1.4 HDi 16v	DV4TED4	92	4	01/04 - 12/05	Euro III	9042A023A	R01001A
	C4	2.0 HDi 16v	DW10BTED4	134	4	10/06 →	Euro IV	9424A000A	R03801D
DACIA									
	Logan	1.5dCi	K9K790	65	4	03/05 →	Euro III	9042A070A	R04101D
	Logan	1.5dCi	K9K792	68	4	01/06 →	Euro IV	9042A070A	R05101D
FORD									
	Focus I	1.8 TDCi	Lynx	100	4	09/02 - 11/04	Euro III	9044A016B (1) or 9044A016A (2)	R02201Z
	Focus I	1.8 TDCi	Lynx	115	4	03/01 - 11/04	Euro III	9044A016B (1) or 9044A016A (2)	R02201Z
	Mondeo III (Twin/Single box)	2.0 TDCi 16v	Puma	115	4	08/02 - 06/03	Euro III	9044A130B (1) or 9044A130A (2)	R00402Z
	Mondeo III (Single Box)	2.0 TDCi 16v	Puma	115	4	06/03 →	Euro III	9044A130B (1) or 9044A130A (2)	R00502Z
	Mondeo III (Twin box)	2.0 TDCi 16v	Puma	130	4	10/01 - 06/03	Euro III	9044A130B (1) or 9044A130A (2)	R00301Z
	Mondeo III (Single box)	2.0 TDCi 16v	Puma	130	4	06/03 →	Euro III	9044A130B (1) or 9044A130A (2)	R00501Z
	Mondeo III	2.2 TDCi 16v	Puma	155	4	09/04 →	Euro III	9044A090A	R00601D
	Mondeo IV	2.0 TDCi 16v	Puma	115	4	09/03 →	Euro IV	9044A130A (2)	R00504Z
	Mondeo IV	2.0 TDCi 16v	Puma	130	4	09/03 →	Euro IV	9044A130A (2)	R00504Z
	Mondeo IV	2.0 TDCi 16v	Puma	130	4	11/05 →	Euro IV	9044A130A (2)	R00801D
	Mondeo IV	2.2 TDCi 16v	Puma	152	4	05/05 →	Euro IV	9044A090A	R00701D
	Tourneo Connect	1.8 TDCi	Lynx	90	4	09/02 →	Euro III	9044A016A	R02201Z
	Transit Connect	1.8 TDCi	Lynx	90	4	09/02 →	Euro III	9044A016A	R02201Z
	Transit (FWD)	2.0 TDCi	Puma	125	4	08/02 →	Euro III	9044A130B (1) or 9044A130A (2)	R00301Z
	Transit (RWD)	2.4 TDCi	Puma	137	4	03/04 →	Euro III	9044A090A	R00403Z
HYUNDAI <small>(Not homologated for Korean market)</small>									
	Terracan	2.9 CRDi	KJ	150	4	12/01 →	Euro III	9044A072A	R02801D
	Terracan	2.9 CRDi 2WD	HP	150	4	10/03 →	Euro III	9044A072A	R02901D
	Terracan	2.9 CRDi 2WD	HP	150	4	01/04 →	Euro III	9044A072A	-
	Terracan	2.9 CRDi 4WD	HP	150	4	12/01 →	Euro III	9044A072A	R02901D
	Terracan	2.9 CRDi 4WD	HP	150	4	01/04 →	Euro III	9044A072A	-
	Terracan	2.9 CRDi 4WD	HP	150	4	01/04 →	Euro III	9044A072A	R03701D
	Terracan	2.9 CRDi 4WD	HP	150	4	08/05 →	Euro III	9044A072A	R03701D
JAGUAR									
	X-type S	2.0 D	X404	130	4	07/03 - 09/05	Euro III	9044A130A	R00501Z
	X-type S	2.0 D	X404	130	4	10/05 →	Euro IV	9044A130A	R00501Z
	X-type S Estate	2.0 D	X404	130	4	02/04 - 09/05	Euro III	9044A130A	R00504Z
	X-type S Estate	2.0 D	X404	130	4	10/05 →	Euro IV	9044A130A	R00504Z
	X-type SE	2.0 D	X404	130	4	07/03 - 09/05	Euro III	9044A130A	R00501Z
	X-type SE	2.0 D	X404	130	4	10/05 →	Euro IV	9044A130A	R00501Z
	X-type SE Estate	2.0 D	X404	130	4	02/04 - 09/05	Euro III	9044A130A	R00504Z
	X-type SE Estate	2.0 D	X404	130	4	10/05 →	Euro IV	9044A130A	R00504Z
	X-type Sport	2.0 D	X404	130	4	07/03 - 09/05	Euro III	9044A130A	R00501Z
	X-type Sport	2.0 D	X404	130	4	10/05 →	Euro IV	9044A130A	R00501Z
	X-type Sport Estate	2.0 D	X404	130	4	02/04 - 09/05	Euro III	9044A130A	R00504Z
	X-type Sport Estate	2.0 D	X404	130	4	10/05 →	Euro IV	9044A130A	R00504Z
	X-type	2.2 D	-	155	4	10/05 →	Euro IV	9044A090A	R00701D
JCB									
	Loadall	4.4 L	-	97	4	03/07 →	Tier III	9422A010A	R05001D
	Loading Shovel	4.4 L	-	108	4	03/07 →	Tier III	9422A010A	R05001D
	Telescopic Handler	4.4 L	-	120	4	03/07 →	Tier III	9422A010A	R05001D
JMC									
	Transit	2.8 L	4JB1TCI	114	4	02/06 →	Euro III	9044A120A	R03301D
KIA									
	Bongo	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9044A072A	R03001D
	Carnival	2.9 CRDi	KJ	144	4	10/01 - 01/04	Euro III	9044A072A	R02801D
	Carnival	2.9 CRDi	KJ	148	4	10/01 →	Euro III	9044A072A	R02801D
	Carnival	2.9 CRDi	KJ	185	4	06/06 →	Euro IV	9422A000A	R03902D
	Carnival II	2.9 CRDi	KJ	144	4	08/05 →	Euro III	9044A072A	R02901D
	Frontier	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9044A072A	R03001D
	Pregio	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9044A072A	R03001D
	Sedona	2.9 CRDi	KJ	144	4	10/01 - 01/04	Euro III	9044A072A	R02801D
	Sedona	2.9 CRDi	KJ	185	4	07/06 →	Euro IV	9422A000A	R03902D
	Sedona II	2.9 CRDi	KJ	144	4	08/05 →	Euro III	9044A072A	R02901D
MERCEDES-BENZ									
	C Class 200	2.2 CDI	OM646	136 with DPF	4	01/07 →	Euro IV	9421A000A	R04201D
	C Class 200	2.2 CDI	OM646	136 without DPF	4	01/07 →	Euro IV	9421A000A	R04201D
	C Class 220	2.2 CDI	OM646	161 with DPF	4	01/07 →	Euro IV	9421A000A	R04201D
	C Class 220	2.2 CDI	OM646	168 with DPF	4	01/07 →	Euro IV	9421A000A	R04201D
	C Class 220	2.2 CDI	OM646	168 without DPF	4	01/07 →	Euro IV	9421A000A	R04201D
	E Class 200	2.2 CDI	OM646	136 with DPF	4	07/06 →	Euro IV	9421A000A	R04201D
	E Class 200	2.2 CDI	OM646	136 without DPF	4	07/06 →	Euro IV	9421A000A	R04201D
	E Class 200	2.2 CDI	OM646	161 with DPF	4	07/06 →	Euro IV	9421A000A	R04201D
	E Class 220	2.2 CDI	OM646	168 with DPF	4	07/06 →	Euro IV	9421A000A	R04201D
	E Class 220	2.2 CDI	OM646	168 without DPF	4	07/06 →	Euro IV	9421A000A	R04201D

Manufacturer	Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Pump	Injector
NISSAN									
	Almera	1.5 dCi	K9K260	82	4	10/03 →	Euro III	9042A070A	R04001D
	Micra	1.5 dCi	K9K272	65	4	01/03 →	Euro III	9042A070A	R04101D
	Micra	1.5 dCi	K9K270	82	4	09/03 →	Euro III	9042A070A	R04001D
	Note	1.5 dCi	K9K274	68	4	03/06 →	Euro IV	9042A070A	R05101D
	Note	1.5 dCi	K9K274	86	4	03/06 →	Euro IV	9042A070A	R05101D
PEUGEOT									
	307	2.0 HDi	DW10BTED4	136	4	06/06 →	Euro IV	9424A000A	R03801D
	407	2.0 HDi	DW10BTED4	136	4	10/06 →	Euro III	9424A000A	R03801D
RENAULT									
	Clio II	1.5 dCi	K9K710	57	4	06/02 →	Euro III	9042A070A	R04101D
	Clio II	1.5 dCi	K9K700	65	4	05/01 →	Euro III	9042A070A	R04101D
	Clio II	1.5 dCi	K9K702	80	4	06/02 →	Euro III	9042A070A	R04001D
	Clio II	1.5 dCi	K9K712	100	4	06/01 - 12/05	Euro III	9042A070A	R04001D
	Clio II Campus	1.5 dCi	K9K700	65	4	01/06 →	Euro III	9042A070A	R04101D
	Clio III	1.5 dCi	K9K716	60	4	01/06 →	Euro IV	9042A070A	R05101D
	Clio III	1.5 dCi	K9K752	65	4	01/06 →	Euro III	9042A070A	R04101D
	Clio III	1.5 dCi	K9K768	68	4	06/06 →	Euro IV	9042A070A	R05101D
	Clio III	1.5 dCi	K9K714	70	4	01/06 →	Euro IV	9042A070A	R05101D
	Clio III	1.5 dCi	K9K750	80	4	01/06 →	Euro III	9042A070A	R04001D
	Clio III	1.5 dCi	K9K766	86	4	06/05 →	Euro IV	9042A070A	R05101D
	Grand Scenic II	1.5 dCi	K9K728	100	4	03/04 →	Euro III	9042A070A	R04001D
	Kangoo II	1.5 dCi	K9K710	57	4	06/02 →	Euro III	9042A070A	R04101D
	Kangoo II	1.5 dCi	K9K716	60	4	01/06 →	Euro IV	9042A070A	R05101D
	Kangoo II	1.5 dCi	K9K700	65	4	05/01 →	Euro III	9042A070A	R04101D
	Kangoo II	1.5 dCi	K9K704	65	4	05/01 →	Euro III	9042A070A	R04101D
	Kangoo II	1.5 dCi	K9K714	70	4	01/06 →	Euro IV	9042A070A	R05101D
	Kangoo II	1.5 dCi	K9K702	80	4	06/02 →	Euro III	9042A070A	R04001D
	Megane I	1.5 dCi	K9K722	80	4	10/02 →	Euro III	9042A070A	R04001D
	Megane I	1.5 dCi	K9K724	85	4	05/05 →	Euro IV	9042A070A	R05101D
	Megane I	1.5 dCi	K9K728	100	4	01/03 →	Euro III	9042A070A	R04001D
	Modus	1.5 dCi	K9K752	65	4	01/04 →	Euro III	9042A070A	R04101D
	Modus	1.5 dCi	K9K768	70	4	01/06 →	Euro IV	9042A070A	R05101D
	Modus	1.5 dCi	K9K762	70	4	01/06 →	Euro IV	9042A070A	R05201D
	Modus	1.5 dCi	K9K750	80	4	01/04 →	Euro III	9042A070A	R04001D
	Modus	1.5 dCi	K9K760	85	4	01/06 →	Euro IV	9042A070A	R05201D
	Modus	1.5 dCi	K9K766	85	4	01/06 →	Euro IV	9042A070A	R05101D
	Scenic II	1.5 dCi	K9K722	80	4	01/03 →	Euro III	9042A070A	R04001D
	Scenic II	1.5 dCi	K9K724	85	4	01/06 →	Euro IV	9042A070A	R05101D
	Scenic II	1.5 dCi	K9K728	100	4	01/03 →	Euro III	9042A070A	R04001D
	Thalia	1.5 dCi	K9K710	57	4	06/02 →	Euro III	9042A070A	R04101D
	Thalia	1.5 dCi	K9K716	60	4	01/06 →	Euro IV	9042A070A	R05101D
	Thalia	1.5 dCi	K9K700	65	4	05/01 →	Euro III	9042A070A	R04101D
	Thalia	1.5 dCi	K9K704	65	4	05/01 →	Euro III	9042A070A	R04101D
	Thalia	1.5 dCi	K9K714	70	4	01/06 →	Euro IV	9042A070A	R05101D
	Thalia	1.5 dCi	K9K702	80	4	06/02 →	Euro III	9042A070A	R04001D
	Thalia	1.5 dCi	K9K712	100	4	06/01 - 06/05	Euro III	9042A070A	R04001D
SAMSUNG									
	SM3	1.5 dCi	K9K268	-	4	07/05 →	Euro III	9042A070A	R04101D
	SM3	1.5 dCi	K9K264	85	4	07/05 →	Euro IV	9042A070A	R05101D
SSANGYONG									



Common Rail Filters

Due to the high injection pressures involved in a Common Rail system, the cleanliness of fuel is critical. One of the most important system components is the fuel filter which acts as the engine's first line of defence.

Effective filtration and diesel fuel conditioning are essential to protect the Common Rail fuel injection equipment from water and particle contamination. As little as 2 microns of dirt can completely wear out a fuel pump.

Delphi Diesel is at the forefront of Common Rail filter technology. Our latest range of highly sophisticated fuel filters has been

developed to remove particles down to the level of 2 microns. The range has been designed with enhanced features, ensuring customer demands for long life and improved performance continue to be met.

Delphi Diesel Common Rail filters are manufactured to stringent standards as imposed by the world's leading vehicle manufacturers.

To maximise optimum performance it is important to change the filter at the recommended VM service interval.

"Diesel filtration is the first line of defence"



Common Rail Glow Plugs

Glow Plugs are critical to the smooth, efficient starting of diesel engines. They ensure sound cold engine performance and emissions control.

High quality performance is vital in achieving the required starting temperatures quickly, without compromising the plug's durability.

The Delphi Diesel glow plug range is continually updated to keep it inline with market changes and customer requirements.

Our latest technology ceramic glow plugs offer improved durability and a lightweight design, with enhanced features allowing more efficient combustion.

The complete Delphi Diesel glow plug programme covers 98% of the European vehicle parc.



Filters and Glow plugs – Applications

Manufacturer	Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Filter	Glow Plug
AUDI									
A6	2.7 TDI	-	-	180	6	11/04 →	-	HDF545	-
A6	3.0 TDI	-	-	211	6	05/04 →	-	HDF545	-
A6	3.0 TDI	-	-	225	6	11/04 →	-	HDF545	-
A6	3.0 TDI	-	-	233	6	05/06 →	-	HDF545	-
A8	3.0 TDI	-	-	211	6	11/03 →	-	HDF549	-
A8	3.0 TDI	-	-	232	6	08/03 →	-	HDF549	-
A8	4.0 TDI	-	-	275	8	03/03 →	-	HDF549	HDS374
A8	4.2 TDI	-	-	320	8	07/05 →	-	HDF549	-
BMW									
318	2.0 D	-	-	115	4	03/02 →	-	HDF548	HDS415
318	2.0 D	-	-	116	4	03/03 →	-	HDF548	HDS415
318	2.0 TD	-	-	115	4	03/03 →	-	HDF548	HDS415
320	2.0 CD	-	-	150	4	11/03 →	-	HDF548	HDS415
320	2.0 D	-	-	150	4	09/01 →	-	HDF548	HDS415
320	2.0 TD	-	-	150	4	09/01 →	-	HDF548	HDS415
330	3.0 CD	-	-	204	6	03/03 →	-	HDF548	HDS415
330	3.0 D	-	-	204	6	03/03 →	-	HDF548	HDS415
330	3.0 XD	-	-	204	6	03/03 →	-	HDF548	HDS415
X5	3.0 D	-	-	218	6	12/03 →	-	HDF550	HDS415
CHRYSLER									
300C	3.0 CRD	-	-	218	6	09/05 →	-	HDF544	-
CITROEN									
C3	1.4 HDi	-	-	68	4	02/02 →	-	HDF939	-
C3	1.4 HDi 16V	-	-	90	4	02/02 →	-	HDF939	-
C3	1.4 HDi 16v	DV4TED4	-	92	4	05/02 →	Euro III	HDF939	HDS399
C3 XTR	1.4 HDi 16v	DV4TED4	-	92	4	04/05 →	Euro III	HDF939	HDS399
C4	1.6 HDi	-	-	90	4	12/04 →	-	HDF939	-
C4	1.6 HDi 16v	DV6TED4	-	92	4	12/04 →	Euro IV	-	HDS367
C4	1.6 HDi 16v	DV6TED4	-	110	4	12/04 →	Euro IV	HDF939	HDS399
C4	1.6 HDi FAP	-	-	109	4	12/04 →	-	HDF939	-
C5	1.6 HDi 16v	DV6TED4	-	110	4	06/04 →	Euro IV	HDF939	HDS399
C6	2.7 V6 HDi	-	-	205	6	2006 →	Euro IV	HDF546	HDS404
Pluriel	1.4 HDi	-	-	70	4	2003 →	Euro III	HDF939	-
Xsara Picasso	1.6 HDi	DV6TED4	-	109	4	05/04 →	Euro IV	HDF939	HDS399
DACIA									
Logan	1.5 dCi	K9K790	-	65	4	03/05 →	Euro III	-	HDS342
Logan	1.5 dCi	K9K792	-	70	4	03/05 →	Euro IV	-	HDS342
FORD									
Focus	1.6 TDCi	DV6TED4	-	109	4	11/04 →	-	HDF939	-
Focus C-Max	1.6 TDCi	DV6TED4	-	109	4	10/03 →	Euro IV	HDF939	HDS399
Focus Mk1	1.8 TDCi	Duratorq	-	100	4	09/02 - 2005	Euro III	HDF924	HDS379
Focus Mk2	1.8 TDCi	Duratorq	-	100	4	2002 - 2005	Euro III	HDF924	HDS379
Focus Mk2	1.8 TDCi	Duratorq	-	115	4	03/01 - 2005	Euro III	HDF924	HDS379
Focus MK2	2.0 TDCi	Duratorq	-	136	4	04/05 →	Euro III	HDF929	-
Mondeo	2.0 TDCi 16v	Puma	-	115	4	03/01 →	Euro IV	HDF924	HDS383
Mondeo	2.0 TDCi 16v	Puma	-	130	4	03/01 →	Euro III	HDF924	HDS383
Mondeo	2.2 TDCi 16v	Puma	-	155	4	2004 →	Euro III	HDF924	HDS383
Mondeo	2.2 TDCi 16v	Puma	-	155	4	2005 →	Euro IV	HDF924	HDS383
Tourneo Connect	1.8 TDi	Lynx	-	90	4	09/02 →	Euro III	HDF924	HDS379
Tourneo Connect	1.8 TDi	Lynx	-	90	4	09/02 →	Euro III	HDF927(1)	HDS379
Tourneo Connect	1.8 TDCi	Lynx	-	110	4	08/06 →	Euro III	HDF924	-
Transit	2.0 TDCi	-	-	75	4	08/02 →	-	HDF537	-
Transit	2.4 TDCi	-	-	137	4	03/04 →	-	HDF537	-
Transit Connect	1.8 TDCi	Lynx	-	90	4	09/02 →	Euro III	HDF924	HDS379
Transit Connect	1.8 TDCi	Lynx	-	90	4	09/02 →	Euro III	HDF927(1)	HDS379
Transit Connect	1.8 TDCi	Lynx	-	110	4	08/06 →	Euro III	HDF924	-
Transit Connect	1.8 TDCi	Lynx	-	110	4	08/06 →	Euro III	HDF927(1)	-
HYUNDAI									
Terracan	2.9 CTD 2WD	KJ	-	149	4	07/01 →	Euro III	HDF924	HDS403
Terracan	2.9 CRTD 4WD	KJ	-	149	4	07/01 →	Euro III	HDF924	HDS403

Manufacturer	Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Filter	Glow Plug
JAGUAR									
S-type	2.7 D	-	-	207	6	06/04 →	Euro IV	HDF928	HDS383
X-type	2.0 D	-	-	130	4	09/03 →	Euro IV	HDF924	HDS383
X-type	2.2 D	-	-	155	4	2005 →	Euro IV	HDF924	-
KIA									
Bongo	2.9 CRDi	KJ	-	145	4	04/01 →	Euro III	HDF924	HDS403
Carnival	2.9 CRDi	KJ	-	145	4	04/01 →	Euro III	HDF924	HDS403
Frontier	2.9 CRDi	KJ	-	145	4	04/01 →	Euro III	HDF924	HDS403
Pregio	2.9 CRDi	KJ	-	145	4	04/01 →	Euro III	HDF924	HDS403
Sedona	2.9 CRDi	KJ	-	145	4	04/01 →	Euro III	HDF924	HDS403
LAND ROVER									
Discovery	2.7 TDV6	Lion	-	190	6	10/04 →	Euro III	HDF935	-
Range Rover Sport	2.7 TDV6	Lion	-	190	6	2005 →	Euro III	HDF935	-
MAZDA									
3	1.6 Di TURBO	DV6TED4	-	109	4	06/04 →	Euro IV	HDF939	-
MERCEDES-BENZ									
A160	2.0 CDI	-	-	82	4	09/04 →	-	HDF544	-
A180	2.0 CDI	-	-	109	4	09/04 →	-	HDF544	-
A200	2.0 CDI	-	-	140	4	09/04 →	-	HDF544	-
B180	2.0 CDI	-	-	109	4	03/05 →	-	HDF544	-
B200	2.0 CDI	-	-	140	4	03/05 →	-	HDF544	-
C200	2.1 CDI	-	-	116	4	09/00 →	-	HDF544	HDS377
C200	2.1 CDI	-	-	122	4	04/03 →	-	HDF544	HDS377
C220	2.1 CDI	-	-	143	4	05/00 →	-	HDF544	HDS377
C220	2.1 CDI	-	-	150	4	02/04 →	-	HDF544	HDS377
C270	2.7 CDI	-	-	170	5	12/00 →	-	HDF544	HDS377
C320	3.0 CDI	-	-	224	6	01/05 →	-	HDF544	-
CLK220	2.1 CDI	-	-	150	4	01/05 →	-	HDF544	-
CLK320	3.0 CDI	-	-	224	6	01/05 →	-	HDF544	-
E200	2.1 CDI	-	-	102	4	07/02 →	-	HDF544	HDS377
E200	2.1 CDI	-	-	122	4	07/02 →	-	HDF544	HDS377
E220	2.1 CDI	-	-	150	4	03/02 →	-	HDF544	HDS377
E220T	2.1 CDI	-	-	150	4	03/03 →	-	HDF544	HDS377
E270	2.7 CDI	-	-	177	5	03/02 →	-	HDF544	HDS377
E270T	2.7 CDI	-	-	177	5	03/03 →	-	HDF544	HDS377
E280	3.0 CDI	-	-	190	6	03/05 →	-	HDF544	-
E280	3.2 CDI	-	-	177	6	05/04 →	-	HDF544	HDS377
E280T	3.0 CDI	-	-	190	6	03/05 →	-	HDF544	-
E280T	3.2 CDI	-	-	177	6	05/04 →	-	HDF544	HDS377
E320	3.0 CDI	-	-	224	6	03/05 →	-	HDF544	HDS377
E320	3.2 CDI	-	-	204	6	11/02 →	-	HDF544	HDS377
E320T	3.0 CDI	-	-	224	6	03/05 →	-	HDF544	-
E320T	3.2 CDI	-	-	204	6	03/03 →	-	HDF544	HDS377
E420	4.0 CDI	-	-	314	8	01/06 →	-	HDF544	-
GL320	3.0 CDI	-	-	224	6	09/06 →	-	HDF544	-
GL420	4.0 CDI	-	-	306	8	09/06 →	-	HDF544	-
ML280	3.0 CDI	-	-	190	6	07/05 →	-	HDF544	-
ML320	3.0 CDI	-	-	224	6	07/05 →	-	HDF544	-
R280	3.0 CDI	-	-	190	6	05/06 →	-	HDF544	-
R320	3.0 CDI	-	-	224	6	01/06 →	-	HDF544	-
S320	3.2 CDI	-	-	204	6	09/02 →	-	HDF544	HDS377
Viano	2.1 CDI	-	-	109	4	09/03 →	-	HDF544	HDS377
Viano	2.1 CDI	-	-	150	4	09/03 →	-	HDF544	HDS377
Vito 109	2.1 CDI	-	-	88	4	09/03 →	-	HDF544	HDS377
Vito 111	2.1 CDI	-	-	109	4	09/03 →	-	HDF544	HDS377
Vito 115	2.1 CDI	-	-	150	4	09/03 →	-	HDF544	HDS377
MINI									
One	1.4 D	-	-	75	4	06/03 →	-	HDF551	-
One	1.4 D	-	-	88	4	06/03 →	-	HDF551	-
NISSAN									
Almera	1.5 dCi	K9K270	-	82	4	10/03 →	Euro III	HDF907	HDS342
Interstar	2.2 dCi	G9T-722	-	90	4	04/02 →	Euro III	HDF920	HDS396

(*1) WITH WATER SENSOR FOR EXPORT



Filters and Glow plugs – Applications

Manufacturer Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Filter	Glow Plug
NISSAN CONT'D								
Micra	1.5 dCi	K9K272	65	4	10/03 →	Euro III	HDF907	HDS342
Micra	1.5 dCi	K9K272	82	4	10/03 →	Euro III	HDF907	HDS342
Note	1.5 dCi	K9K274	70	4	03/06 →	Euro IV	HDF944	-
Note	1.5 dCi	K9K276	85	4	03/06 →	Euro IV	HDF944	-
Primastar	1.9 dCi	F9Q-760	82	4	09/02 →	Euro III	HDF920	HDS342
Primastar	1.9 dCi	F9Q-760	100	4	09/02 →	Euro III	HDF920	HDS342
X-Trail	2.2 dCi	-	114	4	07/01 →	-	HDF523	-
X-Trail	2.2 dCi	-	136	4	12/03 →	-	HDF523	-
PEUGEOT								
206	1.6 HDi	DV6TED4	110	4	05/04 →	Euro IV	HDF939	HDS399
206	1.6 HDi FAP	-	109	4	05/04 →	-	HDF939	-
206 CC	1.6 HDi FAP	-	109	4	04/05 →	-	HDF939	-
307	1.6 HDi	DV6TED4	110	4	02/04 →	Euro IV	HDF939	HDS399
307	1.6 HDi FAP	-	109	4	02/04 →	-	HDF939	-
407	1.6 HDi	DV6TED4	110	4	05/04 →	Euro IV	HDF939	HDS399
407	1.6 HDi FAP	-	109	4	05/04 →	-	HDF939	-
407	2.7 HDi	-	204	6	10/05 →	-	HDF546	-
607	2.7 HDi	-	204	6	12/05 →	-	HDF546	HDS404
RENAULT								
Clio II	1.5 dCi	K9K710	55	4	06/01 - 12/04	Euro III	HDF907	HDS342
Clio II	1.5 dCi	K9K710	55	4	01/05 - 05/05	Euro III	HDF941	HDS342
Clio II	1.5 dCi	K9K700	65	4	06/01 - 12/04	Euro III	HDF907	HDS342
Clio II	1.5 dCi	K9K700	65	4	12/01 - 12/04	Euro III	HDF913(1)	HDS342
Clio II	1.5 dCi	K9K700	65	4	01/05 - 05/05	Euro III	HDF941	HDS342
Clio II	1.5 dCi	K9K700	65	4	01/05 - 05/05	Euro III	HDF938(1)	HDS342
Clio II	1.5 dCi	K9K700	65	4	01/05 - 05/05	Euro III	HDF946(1)	HDS342
Clio II	1.5 dCi	K9K704	65	4	06/01 - 12/04	Euro III	HDF907	HDS342
Clio II	1.5 dCi	K9K704	65	4	12/01 - 12/04	Euro III	HDF913(1)	HDS342
Clio II	1.5 dCi	K9K704	65	4	01/05 - 05/05	Euro III	HDF941	HDS342
Clio II	1.5 dCi	K9K704	65	4	01/05 - 05/05	Euro III	HDF938(1)	HDS342
Clio II	1.5 dCi	K9K704	65	4	01/05 - 05/05	Euro III	HDF946(1)	HDS342
Clio II	1.5 dCi	K9K702	82	4	06/01 - 12/04	Euro III	HDF907	HDS342
Clio II	1.5 dCi	K9K702	82	4	01/05 - 05/05	Euro III	HDF941	HDS342
Clio II	1.5 dCi	K9K712	100	4	01/04 - 12/04	Euro III	HDF907	HDS342
Clio II	1.5 dCi	K9K712	100	4	01/05 - 12/05	Euro III	HDF941	HDS342
Clio III	1.5 dCi	K9K768	68	4	06/05 →	Euro IV	HDF944	-
Clio III	1.5 dCi	K9K766	86	4	06/05 →	Euro IV	HDF944	-
Clio III	1.5 dCi	K9K	103	4	06/05 →	Euro IV	HDF944	-
Clio III	1.5 dCi	K9K764	106	4	06/05 →	Euro IV	HDF944	-
Grand Scenic II	1.5 dCi	-	100	4	01/04-12/04	Euro III	HDF915	HDS342
Grand Scenic II	1.5 dCi	-	100	4	01/05 →	Euro III	HDF943	HDS342
Kangoo II	1.5 dCi	K9K710	55	4	07/03-12/04	Euro III	HDF907	HDS342
Kangoo II	1.5 dCi	K9K710	55	4	01/05 →	Euro III	HDF941	HDS342
Kangoo II	1.5 dCi	K9K700	65	4	12/01 - 12/04	Euro III	HDF907	HDS342
Kangoo II	1.5 dCi	K9K700	65	4	12/01 - 12/04	Euro III	HDF913(1)	HDS342
Kangoo II	1.5 dCi	K9K700	65	4	01/05 - 05/05	Euro III	HDF941	HDS342
Kangoo II	1.5 dCi	K9K700	65	4	01/05 - 05/05	Euro III	HDF938(1)	HDS342
Kangoo II	1.5 dCi	K9K700	65	4	01/05 - 05/05	Euro III	HDF946(1)	HDS342
Kangoo II	1.5 dCi	K9K704	65	4	12/01 - 12/04	Euro III	HDF907	HDS342
Kangoo II	1.5 dCi	K9K704	65	4	12/01 - 12/04	Euro III	HDF913(1)	HDS342
Kangoo II	1.5 dCi	K9K704	65	4	01/05 - 05/05	Euro III	HDF941	HDS342
Kangoo II	1.5 dCi	K9K704	65	4	01/05 - 05/05	Euro III	HDF938(1)	HDS342
Kangoo II	1.5 dCi	K9K704	65	4	01/05 - 05/05	Euro III	HDF946(1)	HDS342
Kangoo II	1.5 dCi	K9K702	82	4	07/02 - 12/04	Euro III	HDF907	HDS342
Kangoo II	1.5 dCi	K9K702	82	4	01/05 →	Euro III	HDF941	HDS342
Kangoo II	1.5 dCi	K9K	68	4	06/05 →	Euro IV	HDF941	-
Kangoo II	1.5 dCi	K9K	84	4	06/05 →	Euro IV	HDF941	-
Master	2.2 dCi	G9T722	90	4	09/00 →	Euro III	HDF920	HDS396
Megane II	1.5 dCi	K9K722	82	4	11/02 - 12/04	Euro III	HDF915	HDS342
Megane II	1.5 dCi	K9K722	82	4	11/02 - 12/04	Euro III	HDF917(1)	HDS342
Megane II	1.5 dCi	K9K722	82	4	01/05 →	Euro III	HDF943	HDS342

Manufacturer Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Filter	Glow Plug
RENAULT CONT'D								
Megane II	1.5 dCi	K9K722	82	4	01/05 →	Euro III	HDF937(1)	HDS342
Megane II	1.5 dCi	K9K722	82	4	01/05 →	Euro III	HDF942(1)	HDS342
Megane II	1.5 dCi	K9K722	86	4	05/05 →	Euro IV	HDF943	HDS342
Megane II	1.5 dCi	K9K722	86	4	05/05 →	Euro IV	HDF937(1)	HDS342
Megane II	1.5 dCi	K9K724	86	4	-	Euro IV	-	HDS342
Megane II	1.5 dCi	K9K728	101	4	10/03 - 12/04	Euro III	-	HDS342
Megane II	1.5 dCi	K9K729	100	4	2003 →	Euro III	-	HDS342
Modus	1.5 dCi	-	65	4	10/04 →	Euro III	HDF944	HDS342
Modus	1.5 dCi	-	65	4	10/04 →	Euro III	HDF945(1)	HDS342
Modus	1.5 dCi	-	80	4	10/04 →	Euro III	HDF944	HDS342
Modus	1.5 dCi	-	80	4	10/04 →	Euro III	HDF945(1)	HDS342
Scenic II	1.5 dCi	-	82	4	01/02 - 12/04	Euro III	HDF915	HDS342
Scenic II	1.5 dCi	-	82	4	01/02 - 12/04	Euro III	HDF917(1)	HDS342
Scenic II	1.5 dCi	-	86	4	2005 →	Euro III	HDF943	HDS342
Scenic II	1.5 dCi	-	86	4	2005 →	Euro III	HDF937(1)	HDS342
Scenic II	1.5 dCi	-	86	4	2005 →	Euro III	HDF942(1)	HDS342
Scenic II	1.5 dCi	-	101	4	01/02 - 12/04	Euro III	HDF915	HDS342
Scenic II	1.5 dCi	-	106	4	2005 →	Euro III	HDF943	HDS342
Thalia	1.5 dCi	-	65	4	12/01 - 12/04	Euro III	HDF907	HDS342
Thalia	1.5 dCi	-	65	4	12/01 - 12/04	Euro III	HDF913(1)	HDS342
Thalia	1.5 dCi	-	65	4	2005 →	Euro III	HDF941	HDS342
Thalia	1.5 dCi	-	65	4	2005 →	Euro III	HDF938(1)	HDS342
Thalia	1.5 dCi	-	65	4	2005 →	Euro III	HDF946(1)	HDS342
Trafic	1.9 DCi	F9Q762	82	4	01/01 →	Euro III	HDF920	HDS342
Trafic	1.9 DCi	F9Q760	101	4	01/01 →	Euro III	HDF920	HDS342
SSANGYONG								
Kyron	2.7 Xdi	D27DT	165	5	2006 →	Euro III	HDF924	-
Rexton	2.7 Xdi	D27DT	165	5	08/03 →	Euro III	HDF924	HDS377
Rexton	2.7 Xdi	D27DT	165	5	08/03 →	Euro III	HDF925	HDS377
SUZUKI								
Jimny	1.5 DDiS	K9K262	65	4	01/04 →	Euro III	HDF907	-
Jimny	1.5 DDiS	K9K262	65	4	01/04 →	Euro III	HDF913(1)	-
TATA								
Indica	1.4 D	DICOR	69	4	08/06 →	Euro IV	HDF924	-
Indigo	1.4 D	DICOR	69	4	08/06 →	Euro IV	HDF924	-
Marina	1.4 D	DICOR	69	4	08/06 →	Euro IV	HDF924	-
Safari	3.0 D	BS2 DICOR	115	4	01/05 →	Euro III	HDF924	-
VAUXHALL								
Monovan	2.2 Dti	G9T-720	90	4	09/00 →	Euro III	HDF920	HDS396
Vivaro	1.9 Dti	-	-	4	-	Euro III	HDF920	HDS342
VOLVO								
S40	1.6 D	DV6TED4	110	4	11/04 →	Euro IV	HDF939	HDS399

(1) WITH WATER SENSOR FOR EXPORT

Filter application detail is available in Delphi's Filter Elements catalogue (DDCX100B)



Common Rail HP Pipes

“Always fit a new pipe when one is removed”

The Common Rail High Pressure (HP) pipe is made up of a formed pipe with sealing interfaces at both ends with fastening screws or nuts.

The pipe assembly transports fuel at high pressure between pump, rail and injectors, remaining completely sealed and resistant to pressure changes.

The assembly provides a minimum pressure loss against all internal and external influences, such as temperature, corrosion, and engine fluids. It is designed to retain its functional characteristics throughout its working life.

Despite its apparent strength, Delphi strongly recommends that a new pipe assembly is fitted as a result of any system intervention that requires the removal of a pipe. An example of this is the Delphi Sealed Rail kit (YDT278), which requires the pump to rail HP pipe to be removed.

When a pipe is fitted, the end deforms to create a tight seal. Upon removal, the pipe end retains this deformed shape and if refitted, it cannot be guaranteed that the seal will be maintained – a potentially dangerous situation considering the high pressures inherent in Common Rail systems. Fitting a new pipe assembly also ensures the essential high levels of system cleanliness.

The Sealed Rail kit is an All-Makes tool, and recognising the need to offer our customers a complete solution, Delphi has developed a range of Common Rail HP pipes providing application coverage for Bosch, Siemens and Denso Common Rail systems.

Delphi pipes are fitted to a number of OE applications, including SsangYong, Ford and Kia. Delphi will continue to develop the total range in order to offer our customers the largest possible vehicle coverage of HP pipes.



High Pressure Pipes – Applications

Manufacturer Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Pump → Rail	Rail → Injector 1	Rail → Injector 2	Rail → Injector 3	Rail → Injector 4	Rail → Injector 5
CITROEN												
Berlingo	2.0 HDi	DW10TD	90	4	12/99	→	HPP200	HPP201	HPP202	HPP201	HPP202	-
Berlingo Box	2.0 HDi	DW10TD	90	4	12/99	→	HPP200	HPP201	HPP202	HPP201	HPP202	-
Berlingo Box 4WD	2.0 HDi	DW10TD	90	4	11/00	→	HPP200	HPP201	HPP202	HPP201	HPP202	-
C1	1.4 HDi	DV4D	54	4	06/05	→	HPP250	HPP241	HPP242	HPP243	HPP244	-
C2	1.4 HDi	DV4D	68	4	09/03	→	HPP240	HPP241	HPP242	HPP243	HPP244	-
C3	1.4 HDi	DV4TD	68	4	02/02	→	HPP240	HPP241	HPP242	HPP243	HPP244	-
C3	1.4 HDi 16v	DV4TED4	90	4	02/02	→	HPP280	HPP281 (2 Pipes)		HPP282 (2 Pipes)		-
C3	1.6 HDi	DV6TED4	90	4	10/05	→	HPP270	HPP261 (2 Pipes)		HPP262 (2 Pipes)		-
C3 Pluriel	1.4 HDi	DV4TD	68	4	04/04	→	HPP240	HPP241	HPP242	HPP243	HPP244	-
C3 XTR	1.4 HDi 16v	DV4TED4	90	4	01/04 - 12/05	-	HPP280	HPP281 (2 Pipes)		HPP282 (2 Pipes)		-
C5	1.6 HDi	DV6TED4	109	4	09/04	→	HPP270	HPP261 (2 Pipes)		HPP262 (2 Pipes)		-
C5	2.0 HDi	DW10TD	90	4	03/01 - 08/04	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
C5	2.0 HDi	DW10ATED	109	4	03/01 - 08/04	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
C5 Break	1.6 HDi	DV6TED4	109	4	09/04	→	HPP270	HPP261 (2 Pipes)		HPP262 (2 Pipes)		-
C5 Break	2.0 HDi	DW10TD	90	4	03/01 - 08/04	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
C5 Break	2.0 HDi	DW10ATED	109	4	03/01 - 08/04	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
Jumper Box	2.0 HDi	DW10OUTD	84	4	04/02	→	HPP200	HPP201	HPP202	HPP201	HPP202	-
Jumper Box	2.2 HDi	DW12TED	101	4	04/02	→	HPP210	HPP201	HPP202	HPP201	HPP202	-
Jumper Bus	2.0 HDi	DW10OUTD	84	4	04/02	→	HPP200	HPP201	HPP202	HPP201	HPP202	-
Jumper Bus	2.2 HDi	DW12TED	101	4	04/02	→	HPP210	HPP201	HPP202	HPP201	HPP202	-
Jumper Flatbed	2.0 HDi	DW10OUTD	84	4	04/02	→	HPP200	HPP201	HPP202	HPP201	HPP202	-
Jumper Flatbed	2.2 HDi	DW12TED	101	4	04/02	→	HPP210	HPP201	HPP202	HPP201	HPP202	-
Jumpy	2.0 HDi	DW10ATED	109	4	03/00	→	HPP200	HPP201	HPP202	HPP201	HPP202	-
Jumpy Box	2.0 HDi	DW10ATED	109	4	01/02	→	HPP200	HPP201	HPP202	HPP201	HPP202	-
Xsara	1.4 HDi	DV4TD	68	4	01/03 - 07/04	-	HPP220		HPP221 (5 Pipes)			-
Xsara	1.4 HDi	DV4TD	68	4	07/04 - 03/05	-	HPP230	HPP231	HPP232	HPP233	HPP234	-
Xsara	2.0 HDi	DW10TD	90	4	02/99 - 08/05	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
Xsara	2.0 HDi	DW10ATED	109	4	05/01 - 03/05	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
Xsara Break	1.4 HDi	DV4TD	68	4	01/03 - 07/04	-	HPP220		HPP221 (5 Pipes)			-
Xsara Break	1.4 HDi	DV4TD	68	4	07/04 - 03/05	-	HPP230	HPP231	HPP232	HPP233	HPP234	-
Xsara Break	2.0 HDi	DW10TD	90	4	02/99 - 08/05	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
Xsara Break	2.0 HDi	DW10ATED	109	4	05/01 - 08/05	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
Xsara Coupe	1.4 HDi	DV4TD	68	4	01/03 - 07/04	-	HPP220		HPP221 (5 Pipes)			-
Xsara Coupe	1.4 HDi	DV4TD	68	4	07/04 - 03/05	-	HPP230	HPP231	HPP232	HPP233	HPP234	-
Xsara Coupe	2.0 HDi	DW10TD	90	4	02/99 - 08/05	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
Xsara Coupe	2.0 HDi	DW10ATED	109	4	05/01 - 03/05	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
FORD												
Fiesta V	1.4 TDCi	F6JA	68	4	11/01	→	HPP240	HPP241	HPP242	HPP243	HPP244	-
Focus C-Max	1.6 TDCi	-	109	4	10/03 - 03/07	-	HPP270	HPP261 (2 Pipes)		HPP262 (2 Pipes)		-
Focus I	1.8 TDCi	Lynx	115	4	03/01 - 11/04	Euro III	HPP400	HPP401	HPP402	HPP403	HPP404	-
Focus II	1.6 TDCi	HHDA	90	4	01/05	→	HPP260	HPP261 (2 Pipes)		HPP262 (2 Pipes)		-
Focus II	1.6 TDCi	G8DA	109	4	11/04	→	HPP270	HPP261 (2 Pipes)		HPP262 (2 Pipes)		-
Focus II Saloon	1.6 TDCi	HHDA	90	4	04/05	→	HPP260	HPP261 (2 Pipes)		HPP262 (2 Pipes)		-
Focus II Saloon	1.6 TDCi	G8DA	109	4	04/05	→	HPP270	HPP261 (2 Pipes)		HPP262 (2 Pipes)		-
Focus II Turnier	1.6 TDCi	HHDA	90	4	11/04	→	HPP260	HPP261 (2 Pipes)		HPP262 (2 Pipes)		-
Focus II Turnier	1.6 TDCi	G8DA	109	4	11/04	→	HPP270	HPP261 (2 Pipes)		HPP262 (2 Pipes)		-
Fusion	1.4 TDCi	F6JA	68	4	08/02	→	HPP240	HPP241	HPP242	HPP243	HPP244	-
Mondeo III (Single Box)	2.0 TDCi 16v	Puma	115	4	06/03	→	HPP410	HPP411	HPP412	HPP411	HPP412	-
Mondeo III (Single box)	2.0 TDCi 16v	Puma	130	4	06/03	→	HPP410	HPP411	HPP412	HPP411	HPP412	-
Mondeo III (twin/Single)	2.0 TDCi 16v	Puma	115	4	08/02 - 06/03	Euro III	HPP410	HPP411	HPP412	HPP411	HPP412	-
Mondeo III (twin box)	2.0 TDCi 16v	Puma	130	4	10/01 - 06/03	Euro III	HPP410	HPP411	HPP412	HPP411	HPP412	-
Mondeo IV	2.0 TDCi 16v	Puma	115	4	09/03	→	HPP410	HPP411	HPP412	HPP411	HPP412	-
Mondeo IV	2.0 TDCi 16v	Puma	130	4	09/03	→	HPP410	HPP411	HPP412	HPP411	HPP412	-
Tourneo Connect	1.8 TDCi	Lynx	90	4	09/02	→	HPP400	HPP401	HPP402	HPP403	HPP404	-
Transit (FWD)	2.0 TDCi	Puma	125	4	08/02	→	HPP410	HPP411	HPP412	HPP411	HPP412	-
Transit Connect	1.8 TDCi	Lynx	90	4	09/02	→	HPP400	HPP401	HPP402	HPP403	HPP404	-

Manufacturer Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Pump → Rail	Rail → Injector 1	Rail → Injector 2	Rail → Injector 3	Rail → Injector 4	Rail → Injector 5
HYUNDAI												
Terracan	2.9 CDDi 2WD	HP	150	4	10/03	→	Euro III	9300-063A	9300-046A	9300-047A	9300-047A	9300-047A
Terracan	2.9 CRDi 4WD	HP	150	4	12/01	→	Euro III	9300-063A	9300-046A	9300-047A	9300-047A	9300-047A
JAGUAR												
X-type	2.0 D	X404	130	4	07/03 - 09/05	Euro III	HPP410	HPP411	HPP412	HPP411	HPP412	-
X-type	2.0 D	X404	130	4	10/05	→	Euro IV	HPP410	HPP411	HPP412	HPP411	HPP412
X-type	2.2 D	X404	155	4	10/05	→	Euro IV	HPP410	HPP411	HPP412	HPP411	HPP412
KIA												
Bongo	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9300-063A	9300-046A	9300-047A	9300-047A	9300-047A	-
Carnival	2.9 CRDi	KJ	144	4	10/01 - 01/04	Euro III	9300-063A	9300-046A	9300-047A	9300-047A	9300-047A	-
Frontier	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9300-063A	9300-046A	9300-047A	9300-047A	9300-047A	-
Pregio	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9300-063A	9300-046A	9300-047A	9300-047A	9300-047A	-
Sedona	2.9 CRDi	KJ	144	4	10/01 - 01/04	Euro III	9300-063A	9300-046A	9300-047A	9300-047A	9300-047A	-
NISSAN												
Almera	1.5 dCi	K9K260	82	4	10/03	→	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014
Micra	1.5 dCi	K9K272	65	4	01/03	→	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014
Micra	1.5 dCi	K9K270	82	4	09/03	→	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014
PEUGEOT												
107	1.4 HDi	DV4TD	54	4	06/05	→	-	HPP250	HPP241	HPP242	HPP243	HPP244
206	1.4 HDi	DV4TD	68	4	09/01	→	-	HPP220		HPP221 (5 Pipes)		-
206	1.6 HDi	DV6TED4	109	4	05/04	→	-	HPP260	HPP261 (2 Pipes)		HPP262 (2 Pipes)	-
206 Break/SW	1.4 HDi	DV4TD	68	4	03/03	→	-	HPP220		HPP221 (5 Pipes)		-
206 CC	1.6 HDi	DV6TED4	109	4	04/05	→	-	HPP260	HPP261 (2 Pipes)		HPP262 (2 Pipes)	-
206 Hatchback	2.0 HDi	DW10TD	90	4	12/99	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
206 SW	1.6 HDi	DV6TED4	109	4	05/04	→	-	HPP260	HPP261 (2 Pipes)		HPP262 (2 Pipes)	-
206 SW	2.0 HDi	DW10TD	90	4	07/02	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
307	1.4 HDi	DV4TD	68	4	10/01 - 07/04	-	HPP220		HPP221 (5 Pipes)			-
307	1.4 HDi	DV4TD	68	4	07/04	→	-	HPP230	HPP231	HPP232	HPP233	HPP234
307	1.6 HDi	DV6TED4	90	4	04/05	→	-	HPP270	HPP261 (2 Pipes)		HPP262 (2 Pipes)	-
307	1.6 HDi	DV6TED4	109	4	02/04	→	-	HPP260	HPP261 (2 Pipes)		HPP262 (2 Pipes)	-
307 (3A/C)	2.0 HDi	DW10TD	90	4	08/00	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
307 (3A/C)	2.0 HDi	DW10ATED4	107	4	08/00	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
307 Break	1.6 HDi	DV6TED4	90	4	04/05	→	-	HPP270	HPP261 (2 Pipes)		HPP262 (2 Pipes)	-
307 Break	1.6 HDi	DV6TED4	109	4	02/04	→	-	HPP260	HPP261 (2 Pipes)		HPP262 (2 Pipes)	-
307 Break	2.0 HDi	DW10TD	90	4	03/02	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
307 Break	2.0 HDi	DW10ATED4	107	4	03/02	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
307 Break/SW	1.4 HDi	DV4TD	68	4	03/02 - 07/04	-	HPP220		HPP221 (5 Pipes)			-
307 Break/SW	1.4 HDi	DV4TD	68	4	07/04	→	-	HPP230	HPP231	HPP232	HPP233	HPP234
307 SW	1.6 HDi	DV6TED4	90	4	04/05	→	-	HPP260	HPP261 (2 Pipes)		HPP262 (2 Pipes)	-
307 SW	1.6 HDi	DV6TED4	109	4	02/04	→	-	HPP270	HPP261 (2 Pipes)		HPP262 (2 Pipes)	-
307 SW	2.0 HDi	DW10TD	90	4	03/02	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
307 SW	2.0 HDi	DW10TD	90	4	03/02	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
307 SW	2.0 HDi	DW10ATED4	107	4	03/02	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
407	1.6 HDi	DV6TED4	109	4	05/04	→	-	HPP260	HPP261 (2 Pipes)		HPP262 (2 Pipes)	-
407 SW	1.6 HDi	DV6TED4	109	4	05/04	→	-	HPP260	HPP261 (2 Pipes)		HPP262 (2 Pipes)	-
607	2.0 HDi	DW10ATED	109	4	05/00	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
1007	1.4 HDi	DV4TD	68	4	04/05	→	-	HPP250	HPP241	HPP242	HPP243	HPP244
Boxer Box	2.0 HDi	-	84	4	08/01 - 04/02	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
Boxer Box	2.0 HDi	DW10OUTD	84	4	04/02	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
Boxer Box	2.2 HDi	DW12UTED	101	4	04/02	→	-	HPP210	HPP201	HPP202	HPP201	HPP202
Boxer Box	2.2 HDi	DW12UTED	101	4	04/02	→	-	HPP210	HPP201	HPP202	HPP201	HPP202
Boxer Bus	2.0 HDi	DW10OUTD	84	4	04/02	→	-	HPP200	HPP201	HPP202	HPP201	HPP202
Boxer Bus	2.2 HDi	DW12UTED	101	4	04/02	→	-	HPP210	HPP201	HPP202	HPP201	HPP202
Boxer Bus	2.2 HDi	DW12UTED	101	4	04/02	→	-	HPP210	HPP201	HPP202	HPP201	HPP202
Boxer Flatbed												



High Pressure Pipes – Applications

Manufacturer Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Pump → Rail	Rail → Injector 1	Rail → Injector 2	Rail → Injector 3	Rail → Injector 4	Rail → Injector 5
PEUGEOT CONT'D												
Expert Box	2.0 HDi	DW10BTED	94	4	07/00 →	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
Expert Box	2.0 HDi	DW10ATED	109	4	07/00 →	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
Partner Combispac	2.0HDi	DW10TD	90	4	02/00 →	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
RENAULT												
Clio II	1.5 dCi	K9K710	57	4	06/02 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Clio II	1.5 dCi	K9K700	65	4	05/01 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Clio II	1.5 dCi	K9K702	80	4	06/02 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Clio II	1.5 dCi	K9K712	100	4	06/01 - 12/05	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Clio II Campus	1.5 dCi	K9K700	65	4	01/06 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Espace IV	1.9 dCi	F9Q 680	120	4	11/02 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Espace IV	1.9 dCi	F9Q 820	120	4	11/02 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Espace IV	1.9 dCi	F9Q 826	120	4	11/02 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Grand Scenic	1.9 dCi	F9Q	120	4	04/04 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
Kangoo 4x4	1.9 dCi	F9Q 790	80	4	10/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
Kangoo 4x4	1.9 dCi	F9Q	84	4	07/03 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Kangoo Rapid 4x4	1.9 dCi	F9Q 790	80	4	10/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
Kangoo Rapid 4x4	1.9 dCi	F9Q	84	4	07/03 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Kangoo II	1.5 dCi	K9K710	57	4	06/02 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Kangoo II	1.5 dCi	K9K700	65	4	05/01 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Kangoo II	1.5 dCi	K9K704	65	4	05/01 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Kangoo II	1.5 dCi	K9K702	80	4	06/02 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Laguna	1.9 dCi	F9Q	107	4	09/99 - 03/01	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
Laguna Estate	1.9 dCi	F9Q 718	107	4	09/99 - 03/01	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
Laguna II	1.9 dCi	F9Q	100	4	10/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Laguna II	1.9 dCi	F9Q	110	4	01/05 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
Laguna II	1.9 dCi	F9Q 750	120	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Laguna II	1.9 dCi	F9Q	130	4	05/05 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
Laguna II	2.2 dCi	G9T BVA	140	4	05/05 →	Euro IV	HPP140	HPP131	HPP132	HPP133	HPP134	-
Laguna II	2.2 dCi	G9T 700	150	4	03/01 →	Euro III	HPP130	HPP131	HPP132	HPP133	HPP134	-
Laguna Estate II	1.9 dCi	F9Q	100	4	10/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Laguna Estate II	1.9 dCi	F9Q	110	4	01/05 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
Laguna Estate II	1.9 dCi	F9Q 750	120	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Laguna Estate II	1.9 dCi	F9Q	130	4	05/05 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
Laguna Estate II	2.2 dCi	G9T	140	4	05/05 →	Euro IV	HPP140	HPP131	HPP132	HPP133	HPP134	-
Laguna Estate II	2.2 dCi	G9T BVA	140	4	05/05 →	Euro IV	HPP140	HPP131	HPP132	HPP133	HPP134	-
Master	2.5 dCi	G9U	115	4	01/05 →	Euro IV	HPP150	HPP131	HPP132	HPP133	HPP134	-
Master II Box	1.9 dCi	F9Q 772	82	4	11/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Master II Bus	1.9 dCi	F9Q 772	82	4	11/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Megane	1.9 dCi	F9Q 732	102	4	02/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
Megane Classic	1.9 dCi	F9Q 732	102	4	02/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
Megane Coupe	1.9 dCi	F9Q 732	102	4	02/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
Megane CC II	1.9 dCi	F9Q	120	4	09/03 - 12/05	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
Megane Estate	1.9 dCi	F9Q 732	102	4	02/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
Megane Estate II	1.9 dCi	F9Q	120	4	09/03 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
Megane I	1.5 dCi	K9K722	80	4	10/02 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Megane I	1.5 dCi	K9K724	85	4	05/05 →	Euro IV	HPP010	HPP011	HPP012	HPP013	HPP014	-
Megane I	1.5 dCi	K9K728	100	4	01/03 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Megane II	1.9 dCi	F9Q 800	120	4	11/02 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Scenic II	1.9 dCi	F9Q	120	4	06/03 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Scenic II	1.5 dCi	K9K722	80	4	01/03 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Scenic II	1.5 dCi	K9K728	100	4	01/03 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Scenic RX4	1.9 dCi	F9Q 740	102	4	11/00 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
Thalia	1.5 dCi	K9K700	65	4	05/01 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Thalia	1.5 dCi	K9K704	65	4	05/01 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
Trafic Box	1.9 dCi	F9Q 762	82	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Trafic Box	1.9 dCi	F9Q 760	101	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Trafic Bus	1.9 dCi	F9Q 762	82	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Trafic Bus	1.9 dCi	F9Q 760	101	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-

Manufacturer Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Pump → Rail	Rail → Injector 1	Rail → Injector 2	Rail → Injector 3	Rail → Injector 4	Rail → Injector 5
RENAULT CONT'D												
Trafic II Flatbed / Chassis	1.9 dCi	F9Q 762	82	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Trafic II Flatbed / Chassis	1.9 dCi	F9Q 760	101	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
Vel Satis	2.2 dCi	G9T	116	4	04/04 →	Euro III	HPP130	HPP131	HPP132	HPP133	HPP134	-
Vel Satis	2.2 dCi	G9T FAP	140	4	09/04 →	Euro IV	HPP140	HPP131	HPP132	HPP133	HPP134	-
Vel Satis	2.2 dCi	G9T	150	4	06/02 →	Euro III	HPP130	HPP131	HPP132	HPP133	HPP134	-
SSANGYONG												
Actyon	2.0 Xdi	D20DT	141	4	10/06 →	Euro IV	9300-119A	9300-128A	9300-129A	9300-130A	9300-131A	-
Actyon (China)	2.0 Xdi	D20DT	141	4	10/06 →	Euro III	9300-119A	9300-120A	9300-121A	9300-122A	9300-123A	-
Kyron	2.0 Xdi	D20DT	100	4	05/05 →	Euro III	9300-119A	9300-120A	9300-121A	9300-122A	9300-123A	-
Kyron	2.0 Xdi	D20DT	100	4	06/06 →	Euro IV	9300-119A	9300-128A	9300-129A	9300-130A	9300-131A	-
Kyron	2.7 Xdi	D27DT	165	5	05/05 →	Euro III	9300-081A	9300-077A	9300-078A	9300-077A	9300-078A	9300-079A
Kyron	2.7 Xdi	D27DT	165	5	07/06 →	Euro IV	9300-124A	9300-125A	9300-126A	9300-125A	9300-126A	9300-127A
Kyron (China)	2.0 Xdi	D20DT	100	4	06/06 →	Euro III	9300-119A	9300-120A	9300-121A	9300-122A	9300-123A	-
Kyron (China)	2.7 Xdi	D27DT	165	5	03/06 →	Euro III	9300-081A	9300-077A	9300-078A	9300-077A	9300-078A	9300-079A
Rexton	2.7 Xdi	D27DT	163	5	11/03 →	Euro III	9300-081A	9300-077A	9300-078A	9300-077A	9300-078A	9300-079A
Rexton	2.7 Xdi	D27DT	163	5	08/06 →	Euro IV	9300-124A	9300-125A	9300-126A	9300-125A	9300-126A	9300-127A
Rexton (China)	2.7 Xdi	D27DT	163	5	03/06 →	Euro III	9300-081A	9300-077A	9300-078A	9300-077A	9300-078A	9300-079A
Rodius	2.7 Xdi	D27DT	168	5	04/04 →	Euro III	9300-081A	9300-077A	9300-078A	9300-077A	9300-078A	9300-079A
Rodius	2.7 Xdi	D27DT	168	5	09/06 →	Euro IV	9300-124A	9300-125A	9300-126A	9300-125A	9300-126A	9300-127A
Rodius (China)	2.7 Xdi	D27DT	168	5	03/06 →	Euro III	9300-081A	9300-077A	9300-078A	9300-077A	9300-078A	9300-079A
Stavic	2.7 Xdi	D27DT	168	5	04/04 →	Euro III	9300-081A	9300-077A	9300-078A	9300-077A	9300-078A	9300-079A
Stavic	2.7 Xdi	D27DT	168	5	09/06 →	Euro IV	9300-124A	9300-125A	9300-126A	9300-125A	9300-126A	9300-127A
Stavic (China)	2.7 Xdi	D27DT	168	5	03/06 →	Euro III	9300-081A	9300-077A	9300-078A	9300-077A	9300-078A	9300-079A
SUZUKI												
Jimmy	1.5 DDIS	K9K262	65	4	01/04 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-



Other Common Rail Products

“Common Rail technology will play a major part in the business of everyone involved in diesel”

Inlet Metering Valve (IMV)

The inlet metering valve, (IMV) is used to control the pressure in the rail. The IMV receives a signal from the DCU which regulates the amount of fuel delivered to the high pressure chamber in the pump, thereby providing rail pressure control.

Temperature Sensor

The fuel temperature sensor is mounted to the pump. Its role is to monitor the fuel temperature inside the pump and make the data available to the DCU, thereby preventing excessive fuel temperatures.

Venturi

The venturi is designed to optimise injector performance. It is fitted to the fuel low pressure outlet of the pump and provides a negative pressure to the injector back leakage circuit.

Protection Caps Kit

The protection caps kit enables inlet and outlet connections to be plugged when there is a system intervention. For example, when removing an injector pipe, the caps will be used to close off the rail, injector and pipe to assist in ensuring absolute cleanliness is maintained at all times.

DCU

The DCU is the 'brains'. It controls the functions of the Common Rail system, such as flow and advance, and is used in diagnosis to determine faults within the system.

Other Filter Components

There is a wide range of other filter components helping to ensure the Common Rail system works smoothly. These include fuel heaters and brackets.



Other Common Rail Components – Applications

Manufacturer Model	Engine	Engine code	BHP/Kw	Cyl	Date range	Emissions standard	Rail	IMV	Temperature sensor	Venturi kit	DCU	Caps kit	Fuel heater	Water sensor	Filter bracket	'O' ring Pump Nozzle	Oldham Coupling	Back Leak Circuit Assembly	Sedimentor	Priming pump
CITROEN																				
C3	1.4 HDi 16v	DV4TED4	92	4	02/02	Euro III	-	9109-903	-	9306-010A	R0411C001I	9109-910	9305-108C	-	-	-	-	-	-	-
C3 XTR	1.4 HDi 16v	DV4TED4	92	4	01/04 - 12/05	Euro III	-	9109-903	-	9306-010A	R0411C001I	9109-910	9305-108C	-	-	-	-	-	-	-
C4	2.0 HDi 16v	DW10BTED4	134	4	10/06	Euro IV	9144A180A	9109-927	9307-503A (1)	-	R0413C004E	9109-928	-	-	-	-	7190-067	-	-	-
DACIA																				
Logan	1.5dCi	K9K790	65	4	03/05	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	-	-	-	-	-	-	-
Logan	1.5dCi	K9K792	68	4	01/06	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	-	-	-	-	-	-	-
FORD																				
Focus I	1.8 TDCi	Lynx	100	4	09/02 - 11/04	Euro III	9144A020D	9109-903	9307-506A (2)	9109-904	R0411A001CS (6)	9109-912	-	-	-	7245-091	-	-	-	-
Focus I	1.8 TDCi	Lynx	115	4	03/01 - 11/04	Euro III	9144A020D	9109-903	9307-506A (2) or 9307-503A (1)	9109-904	R0410C031C (3) or R0410C005N (4)	9109-912	-	-	-	7245-091	-	-	-	-
Mondeo III (win /Single box)	2.0 TDCi 16v	Puma	115	4	08/02 - 06/03	Euro III	9144A050B	9109-903	9307-506A (2)	9109-911A	R0410C031C (3) or R0410C005N (4)	9109-912	-	-	-	-	-	-	-	-
Mondeo III (Single Box)	2.0 TDCi 16v	Puma	115	4	06/03	Euro III	9144A050B	9109-903	9307-506A (2)	9109-911A	R0411A001CS (6)	9109-912	-	-	-	-	-	-	-	-
Mondeo III (win box)	2.0 TDCi 16v	Puma	130	4	10/01 - 06/03	Euro III	9144A050B	9109-903	9307-506A (2)	9109-911A	R0410C031C (3) or R0410C005N (4)	9109-912	-	-	-	-	-	-	-	-
Mondeo III (Single box)	2.0 TDCi 16v	Puma	130	4	06/03	Euro III	9144A050B	9109-903	9307-506A (2)	9109-911A	R0411A001CS (6)	9109-912	-	-	-	-	-	-	-	-
Mondeo CDPF	2.0 TDCi 16v	Puma	130	4	11/05	Euro IV	9144A130A	9109-903	9307-506A (2)	9109-911A	R0411A001ES (6)	9109-912	-	-	-	-	-	-	-	-
Mondeo III	2.2 TDCi 16v	Puma	155	4	09/04	Euro III	9144A050B	9109-903	9307-506A (2)	9109-911A	R0411A001CS (6)	9109-912	-	-	-	-	-	-	-	-
Mondeo IV	2.0 TDCi 16v	Puma	115	4	09/03	Euro IV	9144A050B	9109-903	9307-506A (2)	9109-911A	-	9109-912	-	-	-	-	-	-	-	-
Mondeo IV	2.0 TDCi 16v	Puma	130	4	09/03	Euro IV	9144A050B	9109-903	9307-506A (2)	9109-911A	-	9109-912	-	-	-	-	-	-	-	-
Mondeo IV	2.2 TDCi 16v	Puma	152	4	05/05	Euro IV	9144A130A	9109-903	9307-506A (2)	9109-911A	R0411A001DS (6)	9109-912	-	-	-	-	-	-	-	-
Tourneo Connect	1.8 TDCi	Lynx	90	4	09/02	Euro III	9144A020D	9109-903	9307-506A (2)	9109-904	R0411A001CS (6)	9109-912	-	-	-	7245-091	-	-	-	-
Transit Connect	1.8 TDCi	Lynx	90	4	09/02	Euro III	9144A020D	9109-903	9307-506A (2)	9109-904	R0411A001CS (6)	9109-912	-	-	-	7245-091	-	-	-	-
Transit (FWD)	2.0 TDCi	Puma	125	4	08/02	Euro III	9144A050B	9109-903	9307-506A (2)	9109-911A	R0411A001CS (6)	9109-912	-	-	-	-	-	-	-	-
Transit (RWD)	2.4 TDCi	Puma	137	4	03/04	Euro III	9144A050B	9109-903	9307-506A (2)	9109-911A	R0411A001CS (6)	9109-912	-	-	-	-	-	-	-	-
HYUNDAI																				
Terracan	2.9 CRDi 2WD	KJ	150	4	12/01	Euro III	9144A032A	9109-903	9307-503A (1)	9109-905	-	9109-902	9305-117B	9305-116B	-	-	-	-	-	6224050
Terracan	2.9 CRDi 2WD	HP	150	4	10/03	Euro III	9144A032A	9109-903	9307-503A (1)	9109-905	R0410C046C (DOM) or R0410C047C (Euro)	9109-902	9305-117B	9305-116B	-	-	-	-	-	6224050
Terracan	2.9 CRDi 4WD	HP	150	4	12/01	Euro III	9144A032A	9109-903	9307-503A (1)	9109-905	R0410C048B (DOM)	9109-902	9305-117B	9305-116B	-	-	-	-	-	6224050
JAGUAR																				
X-type	2.0 D	-	130	4	07/03 - 09/05	Euro III	9144A050B	9109-903	9307-506A (2)	-	R0411A001CS (6)	9109-912	-	-	-	-	-	-	-	-
X-type	2.0 D	-	130	4	10/05	Euro IV	9144A050B	9109-903	9307-506A (2)	-	R0411A001CS (6)	9109-912	-	-	-	-	-	-	-	-
X-type	2.2 D	-	155	4	10/05	Euro IV	9144A130A	9109-903	9307-506A (2)	-	R0411A001DS (6)	9109-912	-	-	-	-	-	-	-	-
JCB																				
Loadall	4.4 L	-	97	4	03/07	Tier III	9144A200A	9109-927	9307-503A(1)	9109-905	B0211A011A	-	-	-	-	-	-	-	-	-
Loading Shovel	4.4 L	-	108	4	03/07	Tier III	9144A200A	9109-927	9307-503A(1)	9109-905	B0211A011A	-	-	-	-	-	-	-	-	-
Telescopic Handler	4.4 L	-	120	4	03/07	Tier III	9144A200A	9109-927	9307-503A(1)	9109-905	B0211A011A	-	-	-	-	-	-	-	-	-
KIA																				
Bonqo	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9144A032A	9109-903	9307-503A (1)	9109-905	R0410C094C (DOM)	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Carnival	2.9 CRDi	KJ	144	4	10/01 - 01/04	Euro III	9144A032A	9109-903	9307-503A (1)	9109-905	R0410C044E (DOM) or R0410C187A (Euro)	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Carnival	2.9 CRDi	KJ	148	4	10/01	Euro III	9144A060A	9109-903	9307-503A (1)	9109-905	R0410C044E (DOM) or R0410C187A (Euro)	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Carnival	2.9 CRDi	KJ	185	4	06/06	Euro IV	9144A100A	9109-930	7190-185	9300-005B	R0412C001G	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Carnival II	2.9 CRDi	KJ	144	4	08/05	Euro III	9144A060A	9109-903	9307-503A (1)	9109-905	R0410C094C (DOM)	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Frontier	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9144A032A	9109-903	9307-503A (1)	9109-905	R0410C094C (DOM)	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Pregio	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9144A032A	9109-903	9307-503A (1)	9109-905	R0410C093A	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Sedona	2.9 CRDi	KJ	144	4	10/01 - 01/04	Euro III	9144A032A	9109-903	9307-503A (1)	9109-905	R0410C044E (DOM) or R0410C187A (Euro)	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Sedona	2.9 CRDi	KJ	185	4	07/06	Euro IV	9144A100A	9109-930	7190-185	9300-005B	R0412C001G	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Sedona II	2.9 CRDi	KJ	144	4	08/05	Euro III	9144A060A	9109-903	9307-503A (1)	9109-905	-	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
MERCEDES-BENZ																				
C Class 200	2.2 CDI	OM646	136 [+]	4	01/07	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
C Class 200	2.2 CDI	OM646	136 [-]	4	01/07	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
C Class 220	2.2 CDI	OM646	161 [+]	4	01/07	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
C Class 220	2.2 CDI	OM646	168 [+]	4	01/07	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
C Class 220	2.2 CDI	OM646	168 [-]	4	01/07	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
E Class 200	2.2 CDI	OM646	136 [+]	4	07/06	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
E Class 200	2.2 CDI	OM646	136 [-]	4	07/06	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
E Class 200	2.2 CDI	OM646	161 [+]	4	07/06	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
E Class 220	2.2 CDI	OM646	168 [+]	4	07/06	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
E Class 220	2.2 CDI	OM646	168 [-]	4	07/06	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
NISSAN																				
Almera	1.5 dCi	K9K260	82	4	10/03	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410C108A	9109-926	-	-	-	9305-118A (9)	-	-	-	-
Micra	1.5 dCi	K9K272	65	4	01/03	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410C074B or R0410C099A (5)	9109-926	-	-	-	9305-118A (9)	-	-	-	-
Micra	1.5 dCi	K9K270	82	4	09/03	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410C131B	9109-926	-	-	-	9305-118A (9)	-	-	-	-
Note	1.5 dCi	K9K274	68	4	03/06	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	R0410C278C	9109-926	-	-	-	9305-118A (9)	-	-	-	-
Note	1.5 dCi	K9K276	86	4	03/06	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	R0410C277C	9109-926	-	-	-	9305-118A (9)	-	-	-	-
PEUGEOT																				
307	2.0 HDi	DW10BTED4	136	4	06/06	Euro IV	9144A180A	9109-927	9307-503A (1)	-	R0413C004E	9109-928	-	-	-	-	7190-067	-	-	-
407	2.0 HDi	DW10BTED4	136	4	10/06	Euro III	9144A180A	9109-927	9307-503A (1)	-	R0413C003F	9109-928	-	-	-	-	7190-067	-	-	-
RENAULT																				
Clio II	1.5 dCi	K9K710	57	4	06/02	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410C067A (K700)/R0410C037A (K704)/R0410C082A (K710) (3)	9109-926	-	-	-	9305-118A (9)	-	-	-	-
Clio II	1.5 dCi	K9K700	65	4	05/01	Euro III	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	-	-	9305-118A (9)	-	-	-	-
Clio II	1.5 dCi	K9K702	80	4	06/02	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	-	-	9305-118A (9)	-	-	-	-
Clio II	1.5 dCi	K9K712	100	4	06/01 - 12/05	Euro III	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	-	-	9305-118A (9)	-	-	-	-
Clio II Campus	1.5 dCi	K9K700	65	4	01/06															



Other Common Rail Components – Applications

Manufacturer Model	Engine	Engine code	BHP/Kw	Cyl	Date range	Emissions standard	Rail	IMV	Temperature sensor	Venturi kit	DCU	Caps kit	Fuel heater	Water sensor	Filter bracket	'O' ring Pump Nozzle	Oldham Coupling	Back Leak Circuit Assembly	Priming Sedimentor pump
RENAULT CONT'D																			
Clio III	1.5 dCi	K9K752	65	4	01/06 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Clio III	1.5 dCi	K9K768	68	4	06/06 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Clio III	1.5 dCi	K9K714	70	4	01/06 →	Euro IV	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Clio III	1.5 dCi	K9K750	80	4	01/06 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Clio III	1.5 dCi	K9K766	86	4	06/05 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Grand Scenic II	1.5 dCi	K9K728	100	4	03/04 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Kangoo II	1.5 dCi	K9K710	57	4	06/02 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410C036C (K710)/R0410C064A (8)/R0410C076A	9109-926	-	9305-118A (9)	-	-	-	-	-
Kangoo II	1.5 dCi	K9K716	60	4	01/06 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Kangoo II	1.5 dCi	K9K700	65	4	05/01 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410C042A (K700)/R0410C041B & 51A (7)/R0410C063A & 65A (K704)	9109-926	-	9305-118A (9)	-	-	-	-	-
Kangoo II	1.5 dCi	K9K704	65	4	05/01 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410C042A (K700)/R0410C041B & 51A (7)/R0410C063A & 65A (K704)	9109-926	-	9305-118A (9)	-	-	-	-	-
Kangoo II	1.5 dCi	K9K714	70	4	01/06 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Kangoo II	1.5 dCi	K9K702	80	4	06/02 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410C038A (K702) or R0410C077A	9109-926	-	9305-118A (9)	-	-	-	-	-
Megane I	1.5 dCi	K9K722	80	4	10/02 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410B015B (6)	9109-926	-	9305-118A (9)	-	-	-	-	-
Megane I	1.5 dCi	K9K724	85	4	05/05 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Megane I	1.5 dCi	K9K728	100	4	01/03 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Modus	1.5 dCi	K9K752	65	4	01/04 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Modus	1.5 dCi	K9K768	70	4	01/06 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Modus	1.5 dCi	K9K762	70	4	01/06 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Modus	1.5 dCi	K9K750	80	4	01/04 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Modus	1.5 dCi	K9K760	85	4	01/06 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Modus	1.5 dCi	K9K766	85	4	01/06 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Scenic II	1.5 dCi	K9K722	80	4	01/03 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Scenic II	1.5 dCi	K9K724	85	4	01/06 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Scenic II	1.5 dCi	K9K728	100	4	01/03 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Thalia	1.5 dCi	K9K710	57	4	06/02 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410C067A (K700)/R0410C037A (K704)/R0410C082A (K710 (3))	9109-926	-	9305-118A (9)	-	-	-	-	-
Thalia	1.5 dCi	K9K716	60	4	01/06 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Thalia	1.5 dCi	K9K700	65	4	05/01 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Thalia	1.5 dCi	K9K704	65	4	05/01 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Thalia	1.5 dCi	K9K714	70	4	01/06 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
Thalia	1.5 dCi	K9K702	80	4	06/02 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410C050A (K700)/R0410C066A (K704)/R0410C034A (7)	9109-926	-	9305-118A (9)	-	-	-	-	-
Thalia	1.5 dCi	K9K712	100	4	06/01 - 06/05	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
SAMSUNG																			
SM3	1.5 dCi	K9K268	-	4	07/05 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
SM3	1.5 dCi	K9K264	85	4	07/05 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-
SSANGYONG																			
Actyon	2.0 Xdi	D20DT	141	4	10/06 →	Euro IV	9144A190A	9109-903	9307-503A (1)	9109-905	R0412C008B	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Actyon (China)	2.0 Xdi	D20DT	141	4	10/06 →	Euro III	9144A090A	9109-903	9307-503A (1)	9109-905	R0411C045D	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Kyron	2.0 Xdi	D20DT	100	4	05/05 →	Euro III	9144A090A	9109-903	9307-503A (1)	9109-905	R0411C044E	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Kyron	2.0 Xdi	D20DT	100	4	06/06 →	Euro IV	9144A190A	9109-903	9307-503A (1)	9109-905	R0412C015A	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Kyron (China)	2.0 Xdi	D20DT	100	4	06/06 →	Euro III	9144A090A	9109-903	9307-503A (1)	9109-905	R0411C044E	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Kyron	2.7 Xdi	D27DT	165	5	05/05 →	Euro III	9145A010C	9109-903	9307-503A (1)	9109-905	R0411C043D/R0411C053A (AWD)	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Kyron	2.7 Xdi	D27DT	165	5	07/06 →	Euro IV	9145A020A	9109-903	9307-503A (1)	9109-905	R0412C016A	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Kyron (China)	2.7 Xdi	D27DT	165	5	03/06 →	Euro III	9145A010C	9109-903	9307-503A (1)	9109-905	R0411C043D	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Rexton	2.7 Xdi	D27DT	163	5	11/03 →	Euro III	9145A010C	9109-903	9307-503A (1)	9109-905	R0411C009B (DOM)/R0411C025H (Euro)	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Rexton	2.7 Xdi	D27DT	163	5	08/06 →	Euro IV	9145A020A	9109-903	9307-503A (1)	9109-905	R0412C004E (D27DT)/R0412C017A (MAN)/R0412C018A (AWD)	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Rexton (China)	2.7 Xdi	D27DT	163	5	03/06 →	Euro III	9145A010C	9109-903	9307-503A (1)	9109-905	R0411C025H	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Rodius	2.7 Xdi	D27DT	168	5	04/04 →	Euro III	9145A010C	9109-903	9307-503A (1)	9109-905	R0411C013E	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Rodius	2.7 Xdi	D27DT	168	5	09/06 →	Euro IV	9145A020A	9109-903	9307-503A (1)	9109-905	R0412C019A	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Rodius (China)	2.7 Xdi	D27DT	168	5	03/06 →	Euro III	9145A010C	9109-903	9307-503A (1)	9109-905	R0411C013E	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Stavic	2.7 Xdi	D27DT	168	5	04/04 →	Euro III	9145A010C	9109-903	9307-503A (1)	9109-905	R0411C013E	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Stavic	2.7 Xdi	D27DT	168	5	09/06 →	Euro IV	9145A020A	9109-903	9307-503A (1)	9109-905	R0412C019A	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
Stavic (China)	2.7 Xdi	D27DT	168	5	03/06 →	Euro III	9145A010C	9109-903	9307-503A (1)	9109-905	R0411C013E	9109-917	9305-117B	9305-131A	7245-091	-	-	-	6224030
SUZUKI																			
Jimny	1.5 DDIS	K9K262	65	4	01/04 →	Euro III	9144A010D	9109-903	9307-503A (1)	9109-904	R0410C142B	9109-926	-	9305-118A (9)	-	-	-	-	-
Jimny	1.5 DDIS	K9K266	85	4	12/05 →	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	R0410C142B	9109-926	-	9305-118A (9)	-	-	-	-	-
Liana	1.4 16v	DV4TED4	90	4	03/05 →	Euro III	-	9109-903	-	9306-010A	R0411C028B	9109-926	9305-108C	-	-	-	-	-	-
TATA(TELCO)																			
Indica	1.4 D	DICOR	69	4	08/06 →	Euro IV	9144A150A	-	-	-	R0412B003A	9109-919	-	9305-116B	-	-	-	-	6223010A
Indigo	1.4 D	DICOR	69	4	08/06 →	Euro IV	9144A150A	-	-	-	R0412B003A	9109-919	-	9305-116B	-	-	-	-	6223010A
Marina	1.4 D	DICOR	69	4	08/06 →	Euro IV	9144A150A	-	-	-	R0412B003A	9109-919	-	9305-116B	-	-	-	-	6223010A
Safari	2.2 D	DICOR	140	4	04/07 →	Euro IV	9144A210A	-	9307-503A (1)	9109-904	R0412B003A	9109-919	-	9305-131A	-	-	-	7245-262	-
Safari	3.0 D	BS3 DICOR	115	4	01/05 →	Euro III	9144A080A	9109-903	9307-503A (1)	9109-904	R0411C031C	9109-909	-	9305-116B	-	-	-	7245-173	6224030

(1) TEMP SENSOR TIN PINS (2) TEMP SENSOR GOLD PINS (3) UN-PROGRAMMED GOLD (4) UN-PROGRAMMED TIN (5) PHASE 2 (6) UNPROGRAMMED (7) NON MNS (8) PUMP STANDARD W/O CR6 (9) NECESSARY WHEN THE FILTER IS DELIVER W/O



Notes

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