



## Common Rail

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DDSX451 (EN)







## Introduction to Common Rail

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

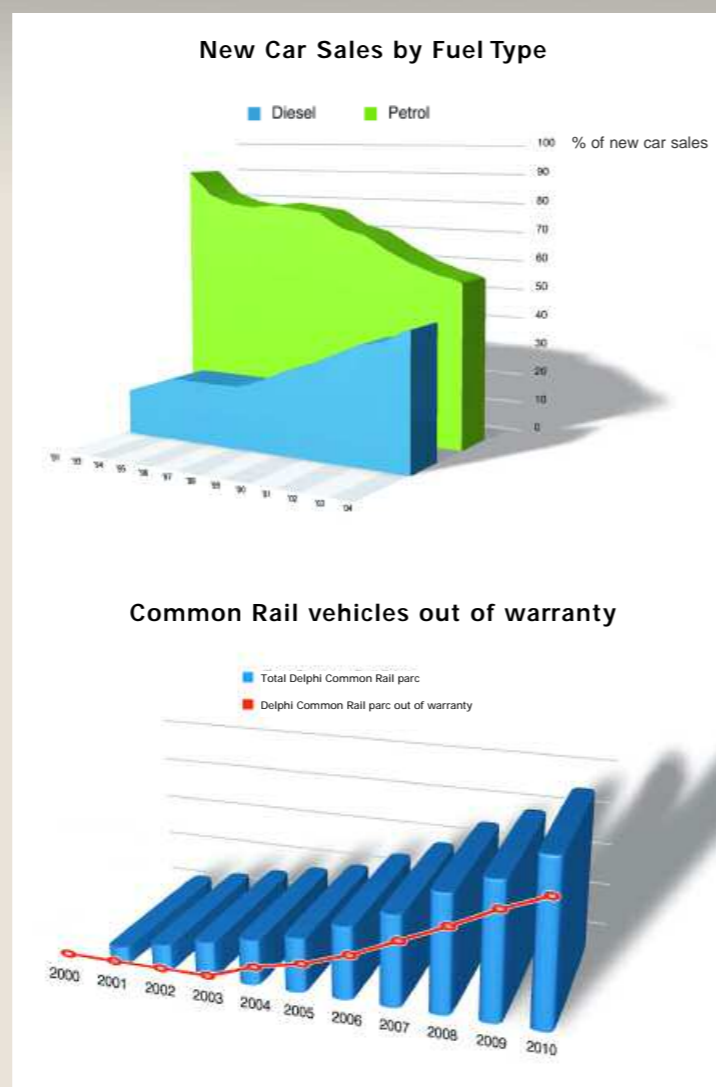
The modern direct-injection engine is a pre-requisite for new diesel-powered passenger vehicles across Europe. It is the only technology to address all planned European emissions legislation, whilst enhancing reliability, performance and fuel economy.

The number of diesel cars we see on our roads is constantly growing. In Europe alone, the diesel parc has grown 50% in the last 4 years, rising from 25 million to 51 million diesel engines. 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 1800 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.



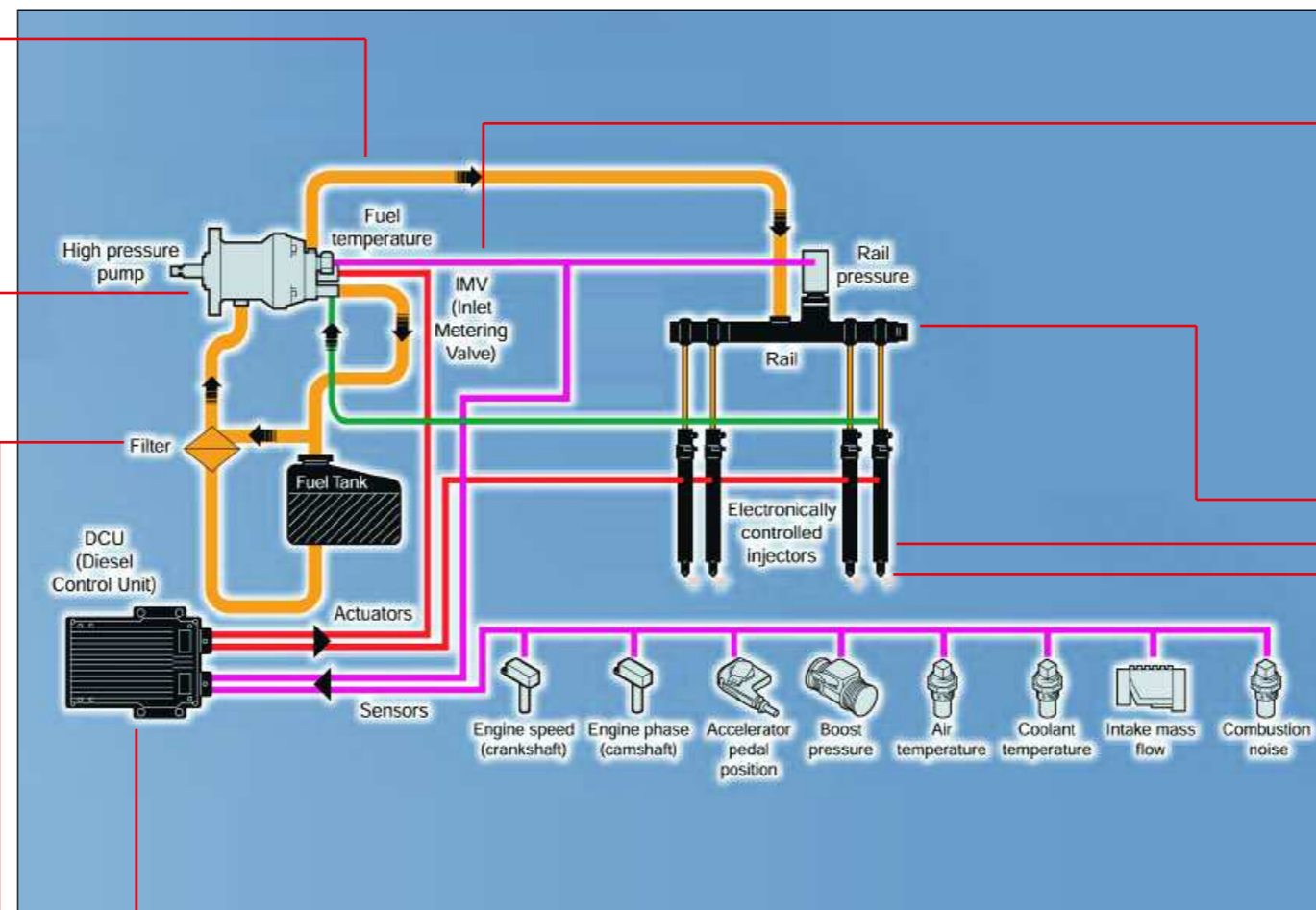
## HIGH PRESSURE PUMP

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.







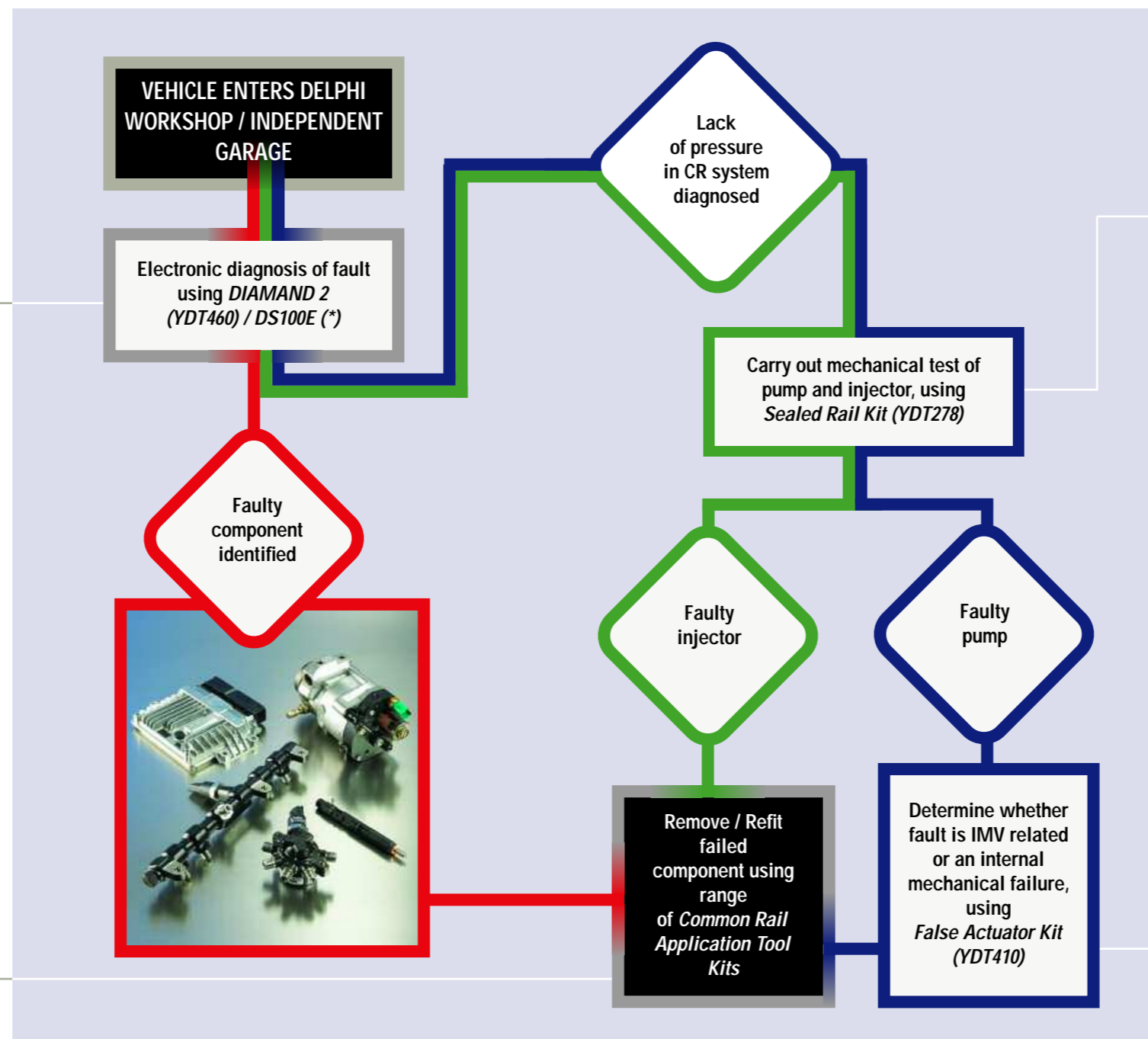
# Diagnostic and Test Equipment

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



\*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/Kw	Cyl	Date range	Emissions standard	Pump	Injector
<b>CITROEN</b>									
	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
<b>DACIA</b>									
	Logan	1.5 dCi	K9K790	65	4	09/05 -	Euro III	9042A042A	R04101D
	Logan	1.5 dCi	K9K792	68	4	01/06 -	Euro IV	9042A042A	R05101D
<b>FORD</b>									
	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	2.2 TDCi 16v	Puma	152	4	05/05 -	Euro IV	9044A090A	R00701D
	Mondeo (Single box)	2.0 TDCi 16v	Puma	115	4	06/03 -	Euro III	9044A130B (1) or 9044A130A (2)	R00502Z
	Mondeo (Single box)	2.0 TDCi 16v	Puma	130	4	01/03 - 06/03	Euro III	9044A130B (1) or 9044A130A (2)	R00401Z
	Mondeo (Single box)	2.0 TDCi 16v	Puma	130	4	06/03 -	Euro III	9044A130B (1) or 9044A130A (2)	R00501Z
	Mondeo (Twin box)	2.0 TDCi 16v	Puma	130	4	10/01 - 06/03	Euro III	9044A130B (1) or 9044A130A (2)	R00301Z
	Mondeo (Twin & Single box)	2.0 TDCi 16v	Puma	115	4	08/02 - 06/03	Euro III	9044A130B (1) or 9044A130A (2)	R00402Z
	Mondeo CDPF	2.0 TDCi 16v	Puma	130	4	11/05 -	Euro IV	9044A130A (2)	R00801D
	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
	Tourneo 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)	R00401Z
	Transit (RWD)	2.4 TDCi	Puma	137	4	03/04 -	Euro III	9044A090A	R00403Z
	Transit Connect	1.8 TDCi	Lynx	90	4	09/02 -	Euro III	9044A016A	R02201Z
<b>HYUNDAI</b>									
	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	R02901D
	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	R02901D
	Terracan	2.9 CRDi 4WD	HP	150	4	01/04 -	Euro III	9044A072A	R03701D <sup>1</sup>
	Terracan	2.9 CRDi 4WD	HP	150	4	08/05 -	Euro III	9044A072A	R03701D <sup>1</sup>
<b>JAGUAR</b>									
	X-type	2.0 D	-	130	4	07/03 - 09/05	Euro III	9044A130A	R00501Z
	X-type	2.0 D	-	130	4	10/05 -	Euro IV	9044A130A	R00504Z
	X-type	2.2 D	-	155	4	10/05 -	Euro IV	9044A090A	R00701D
<b>JCB</b>									
	Loadall	4.4 L	-	97	4	03/07 -	Tier III	9422A010A	R05001D
	Loading Showel	4.4 L	-	108	4	03/07 -	Tier III	9422A010A	R05001D
	Telescopic Handler	4.4 L	-	120	4	03/07 -	Tier III	9422A010A	R05001D
<b>JMC</b>									
	Transit	2.8 L	4JB1TCI	114	4	02/06 -	Euro III	9044A120A	R03301D
<b>KIA</b>									
	Bongo	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9044A072A	R03001D
	Bongo	2.9 CRDi	KJ	144	4	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	144	4	01/04 -	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	R03701D
	Frontier	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9044A072A	R03001D
	Frontier	2.9 CRDi	KJ	144	4	01/04 -	Euro III	9044A072A	R03001D
	Pregio	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9044A072A	R03001D
	Pregio	2.9 CRDi	KJ	144	4	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	144	4	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	R03701D
<b>MERCEDES-BENZ</b>									
	C Class 220	2.2 CDI	OM646	100Kw [+ DPF]	4	01/07 -	Euro IV	9421A000A	R04201D
	C Class 220	2.2 CDI	OM646	100Kw [- DPF]	4	01/07 -	Euro IV	9421A000A	R04201D
	C Class 220	2.2 CDI	OM646	120Kw [+ DPF]	4	01/07 -	Euro IV	9421A000A	R04201D
	C Class 220	2.2 CDI	OM646	125Kw [+ DPF]	4	01/07 -	Euro IV	9421A000A	R04201D
	C Class 220	2.2 CDI	OM646	125Kw [- DPF]	4	01/07 -	Euro IV	9421A000A	R04201D
	E Class 220	2.2 CDI	OM646	100Kw [+ DPF]	4	07/06 -	Euro IV	9421A000A	R04201D
	E Class 220	2.2 CDI	OM646	100Kw [- DPF]	4	07/06 -	Euro IV	9421A000A	R04201D
	E Class 220	2.2 CDI	OM646	120Kw [+ DPF]	4	07/06 -	Euro IV	9421A000A	R04201D
	E Class 220	2.2 CDI	OM646	125Kw [+ DPF]	4	07/06 -	Euro IV	9421A000A	R04201D
	E Class 220	2.2 CDI	OM646	125Kw [- DPF]	4	07/06 -	Euro IV	9421A000A	R04201D
<b>NISSAN</b>									
	Almera	1.5 dCi	K9K260	82	4	10/03 -	Euro III	9042A042A	R04001D
	Micra	1.5 dCi	K9K272	65	4	01/03 -	Euro III	9042A042A	R04101D
	Micra	1.5 dCi	K9K270	82	4	09/03 -	Euro III	9042A042A	R04001D
	Note	1.5 dCi	K9K274	68	4	03/06 -	Euro IV	9042A042A	R05101D
	Note	1.5 dCi	K9K276	86	4	03/06 -	Euro IV	9042A042A	R05101D

Manufacturer	Model	Engine	Engine code	BHP/Kw	Cyl	Date range	Emissions standard	Pump	Injector
<b>PEUGEOT</b>									
	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
	407	2.0 HDi	DW10BTED4	136	4	10/06 -	Euro IV	9424A000A	R03801D
<b>RENAULT</b>									
	Clio II	1.5 dCi	K9K700 / 704	65	4	05/01 -	Euro III	9042A042A	R04101D
	Clio II	1.5 dCi	K9K702	80	4	06/02 -	Euro III	9042A042A	R04001D
	Clio II	1.5 dCi	K9K710	55	4	06/02 -	Euro III	9042A042A	R04101D
	Clio II	1.5 dCi	K9K712	100	4	06/01 - 12/05	Euro III	9042A042A	R04001D
	Clio II	1.5 dCi	K9K714	70	4	01/06 -	Euro IV	9042A042A	R05101D
	Clio II	1.5 dCi	K9K716	60	4	01/06 -	Euro IV	9042A042A	R05101D
	Clio II Campus	1.5 dCi	K9K700 / 704	65	4	01/06 -	Euro III	9042A042A	R04101D
	Clio III	1.5 dCi	K9K750	80	4	01/06 -	Euro III	9042A042A	R04001D
	Clio III	1.5 dCi	K9K752	65	4	01/06 -	Euro III	9042A042A	R04101D
	Clio III	1.5 dCi	K9K766	84	4	06/06 -	Euro IV	9042A042A	R05101D
	Clio III	1.5 dCi	K9K768	70	4	01/06 -	Euro IV	9042A042A	R05101D
	Grand Scenic II	1.5 dCi	K9K728	100	4	03/04 -	Euro III	9042A042A	R04001D
	Kangoo II	1.5 dCi	K9K700 / 704	65	4	05/01 -	Euro III	9042A042A	R04101D
	Kangoo II	1.5 dCi	K9K702	80	4	06/02 -	Euro III	9042A042A	R04001D
	Kangoo II	1.5 dCi	K9K710	57	4	06/02 -	Euro III	9042A042A	R04101D
	Kangoo II	1.5 dCi	K9K714	70	4	01/06 -	Euro IV	9042A042A	R05101D
	Kangoo II	1.5 dCi	K9K716	60	4	01/06 -	Euro IV	9042A042A	R05101D
	Kangoo II	1.5 dCi	K9K718	60	4	01/06 -	Euro IV	9042A042A	R05101D
	Megane I	1.5 dCi	K9K722	80	4	10/02 -	Euro III	9042A042A	R04001D
	Megane I	1.5 dCi	K9K728	100	4	01/03 -	Euro III	9042A042A	R04001D
	Megane I	1.5 dCi	K9K729	100	4	01/03 -	Euro III	9042A042A	R04001D
	Megane I	1.5 dCi	K9K724	85	4	05/05 -	Euro IV	9042A042A	R05101D
	Modus	1.5 dCi	K9K750	80	4	01/04 -	Euro III	9042A042A	R04001D
	Modus	1.5 dCi	K9K752	65	4	01/04 -	Euro III	9042A042A	R04101D
	Modus	1.5 dCi	K9K760	85	4	01/06 -	Euro IV	9042A042A	R05201D
	Modus	1.5 dCi	K9K762	70	4	01/06 -	Euro IV	9042A042A	R05201D
	Modus	1.5 dCi	K9K766	85	4	01/06 -	Euro IV	9042A042A	R05101D
	Modus	1.5 dCi	K9K768	70	4	01/06 -	Euro IV	9042A042A	R05101D
	Scenic II	1.5 dCi	K9K722	80	4	01/03 -	Euro III	9042A042A	R04001D
	Scenic II	1.5 dCi	K9K728	100	4	01/03 -	Euro III	9042A042A	R04001D
	Scenic II	1.5 dCi	K9K724	85	4	01/06 -	Euro IV	9042A042A	R05101D
	Thalia	1.5 dCi	K9K700 / 704	65	4	05/01 -	Euro III	9042A042A	R04101D
	Thalia	1.5 dCi	K9K702	80	4	06/02 -	Euro III	9042A042A	R04001D
	Thalia	1.5 dCi	K9K710	57	4	06/02 -	Euro III	9042A042A	R04101D
	Thalia	1.5 dCi	K9K712	100	4	06/01 - 06/05	Euro III	9042A042A	R04001D
	Thalia	1.5 dCi	K9K714	70	4	01/06 -	Euro IV	9042A042A	R05101D
	Thalia	1.5 dCi	K9K716	60	4	01/06 -	Euro IV	9042A042A	R05101D
<b>SAMSUNG</b>									
	SM3	1.5 dCi	K9K268	-	4	07/05 -	Euro III	9042A042A	R04101D
	SM3	1.5 dCi	K9K264	85	4	07/05 -	Euro IV	9042A042A	R05101D
<b>SSANGYONG</b>									
	Actyon	2.0 Xdi	D20DT	141	4	09/05 -	Euro III	9044A051A/9044A052A (3)	R03401D
	Actyon	2.0 Xdi	D20DT	141	4	10/06 -	Euro IV	9044A051A/9044A052A (3)	R04501D
	Actyon (China)	2.0 Xdi	D20DT	141	4	10/06 -	Euro III	9044A160A/9044A161A (4)	R04701D
	Kyron	2.0 Xdi	D20DT	100	4	05/05 -	Euro III	9044A051A/9044A052A (3)	R03401D



## 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/Kw	Cyl	Date range	Emissions standard	Filter	Glow Plug
<b>AUDI</b>								
A6	2.7 TDI	-	180	6	11/04	-	HDF545	-
A6	2.7 TDI	-	180	6	11/04	-	HDF545	-
A6	3.0 TDI	-	225	6	11/04	-	HDF545	-
A6	3.0 TDI	-	211	6	05/04	-	HDF545	-
A6	3.0 TDI	-	233	6	06/06	-	HDF545	-
A6	2.7 TDI	-	180	6	05/06	-	HDF545	-
A6	3.0 TDI	-	233	6	05/06	-	HDF545	-
A6	2.7 TDI	-	180	6	03/05	-	HDF545	-
A6	2.7 TDI	-	180	6	03/05	-	HDF545	-
A6	3.0 TDI	-	233	6	06/06	-	HDF545	-
A6	3.0 TDI	-	211	6	03/05	-	HDF545	-
A6	3.0 TDI	-	225	6	03/05	-	HDF545	-
A8	3.0 TDI	-	232	6	08/03	-	HDF549	-
A8	3.0 TDI	-	211	6	11/03	-	HDF549	-
A8	4.0 TDI	-	275	8	03/03	-	HDF549	HDS374
A8	4.2 TDI	-	320	8	07/05	-	HDF549	-
<b>BMW</b>								
318	2.0 D	-	116	4	03/03	-	HDF548	HDS415
318	2.0 TD	-	115	4	03/03	-	HDF548	HDS415
318	2.0 D	-	116	4	03/03	-	HDF548	HDS415
318	2.0 D	-	115	4	03/02	-	HDF548	HDS415
320	2.0 D	-	150	4	09/01	-	HDF548	HDS415
320	2.0 TD	-	150	4	09/01	-	HDF548	HDS415
320	2.0 CD	-	150	4	02/05	-	HDF548	HDS415
320	2.0 CD	-	150	4	11/03	-	HDF548	HDS415
320	2.0 D	-	150	4	09/01	-	HDF548	HDS415
330	3.0 D	-	204	6	03/03	-	HDF548	HDS415
330	3.0 XD	-	204	6	03/03	-	HDF548	HDS415
330	3.0 CD	-	204	6	08/05	-	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
<b>CHRYSLER</b>								
300C	3.0 CRD	-	218	6	09/05	-	HDF544	-
300C	3.0 CRD	-	218	6	09/05	-	HDF544	-
<b>CITROEN</b>								
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 FAP	-	109	4	12/04	-	HDF939	-
C4	1.6 HDi 16v	DV6TED4	110	4	12/04	Euro IV	HDF939	HDS399
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	-	109	4	06/04	-	HDF939	-
Xsara Picasso	1.6 HDi	DV6TED4	110	4	06/04	Euro IV	HDF939	HDS399
<b>DACIA</b>								
Logan	1.5 dCi	K9K790	65	4	03/05	Euro III	-	HDS368
Logan	1.5 dCi	K9K792	70	4	03/05	Euro IV	-	HDS368
<b>FORD</b>								
Focus	1.6 TDCi	DV6TED4	109	4	11/04	-	HDF939	-
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	-
Focus C-Max	1.6 TDCi	DV6TED4	109	4	10/03	Euro IV	HDF939	HDS399
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 TDCi	Lynx	90	4	09/02	Euro III	HDF924	HDS379
Tourneo Connect	1.8 TDCi	Lynx	90	4	09/02	Euro III	HDF927(1)	HDS379
Tourneo Connect	1.8 TDCi	-	90	4	2006	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

Manufacturer Model	Engine	Engine code	BHP/Kw	Cyl	Date range	Emissions standard	Filter	Glow Plug
<b>FORD CONT'D</b>								
Transit Connect	1.8 TDCi	Lynx	90	4	09/02	Euro III	HDF927(1)	HDS379
Transit Connect	1.8 TDCi	-	90	4	2006	Euro III	HDF924	-
<b>HYUNDAI</b>								
Terracan	2.9 CDTD 2WD	KJ	149	4	07/01	Euro III	HDF924	HDS403
Terracan	2.9 CRTD 4WD	KJ	149	4	07/01	Euro III	HDF924	HDS403
<b>JAGUAR</b>								
S-type	2.7D	-	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	-
<b>KIA</b>								
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
<b>LAND ROVER</b>								
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	-
<b>MAZDA</b>								
3	1.6 Di	DV6TED4	109	4	06/04	Euro IV	HDF939	-
3	1.6 Di TURBO	-	109	4	06/04	-	HDF939	-
<b>MERCEDES-BENZ</b>								
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
C200	2.1 CDI	-	116	4	03/01	-	HDF544	HDS377
C200	2.1 CDI	-	122	4	04/03	-	HDF544	HDS377
C200	2.1 CDI	-	122	4	07/03	-	HDF544	HDS377
C220	2.1 CDI	-	143	4	05/00	-	HDF544	HDS377
C220	2.1 CDI	-	150	4	02/04	-	HDF544	HDS377
C220	2.1 CDI	-	143	4	03/01	-	HDF544	HDS377
C220	2.1 CDI	-	150	4	02/04	-	HDF544	HDS377
C220	2.1 CDI	-	143	4	03/01	-	HDF544	HDS377
C220	2.1 CDI	-	150	4	02/04	-	HDF544	HDS377
C270	2.7 CDI	-	170	5	12/00	-	HDF544	HDS377
C270	2.7 CDI	-	170	5	03/01	-	HDF544	HDS377
C320	3.0 CDI	-	224	6	01/05	-	HDF544	-
C320	3.0 CDI	-	224	6	01/06	-	HDF544	-
CLK220	2.1 CDI	-	150	4	01/05	-	HDF544	-
CLK320	3.0 CDI	-	224	6	01/05	-	HDF544	-
CLS320	3.0 CDI	-	224	6	01/05	-	HDF544	-
E200	2.1 CDI	-	122	4	07/02	-	HDF544	HDS377
E200	2.1 CDI	-	102	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
E280	3.0 CDI	-	190	6	03/05	-	HDF544	-
E280T	3.0 CDI	-	190	6	03/05	-	HDF544	-
E280T	3.2 CDI	-	177	6	05/04	-	HDF544	HDS377
E280T	3.0 CDI	-	190	6	03/05	-	HDF544	-
E320	3.0 CDI	-	224	6	03/05	-	HDF544	-
E320	3.2 CDI	-	204	6	11/02	-	HDF544	HDS377
E320	3.0 CDI	-	224	6	03/05	-	HDF544	HDS377
E320T	3.0 CDI	-	224	6	03/05	-	HDF544	-
E320T	3.2 CDI	-	204	6	03/03	-	HDF544	HDS377
E320T	3.0 CDI	-	224	6	03/05	-	HDF544	-
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	-

(1) WITH WATER SENSOR



# Filters and Glow plugs – Applications

Manufacturer	Model	Engine	Engine code	BHP/Kw	Cyl	Date range	Emissions standard	Filter	Glow Plug
<b>MERCEDES BENZ CONT'D</b>									
	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 109	2.1 CDI	-	88	4	09/03 -	-	HDF544	HDS377
	Vito 111	2.1 CDI	-	109	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
	Vito 115	2.1 CDI	-	150	4	09/03 -	-	HDF544	HDS377
<b>MINI</b>									
	One	1.4 D	-	88	4	06/03 ?	-	HDF551	-
	One	1.4 D	-	75	4	06/03 -	-	HDF551	-
<b>NISSAN</b>									
	Almera	1.5 dCi	K9K270	82	4	10/03 ?	Euro III	HDF907	HDS368
	Interstar	2.2 dCi	G9T-722	90	4	04/02 -	Euro III	HDF920	HDS396
	Micra	1.5 dCi	K9K272	65	4	10/03 ?	Euro III	HDF907	HDS368
	Micra	1.5 dCi	K9K272	82	4	10/03 -	Euro III	HDF907	HDS368
	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	HDS368
	Primastar	1.9 dCi	F9Q-760	100	4	09/02 -	Euro III	HDF920	HDS368
	X-Trail	2.2 dCi	-	114	4	07/01 ?	-	HDF523	-
	X-Trail	2.2 dCi	-	136	4	12/03 -	-	HDF523	-
	X-Trail	2.2 dCi	-	136	4	12/03 ?	-	HDF523	-
<b>PEUGEOT</b>									
	206	1.6 HDi FAP	-	109	4	05/04 -	-	HDF939	-
	206	1.6 HDi	DV6TED4	110	4	05/04 -	Euro IV	HDF939	HDS399
	206 CC	1.6 HDi FAP	-	109	4	04/05 -	-	HDF939	-
	307	1.6 HDi FAP	-	109	4	02/04 -	-	HDF939	-
	307	1.6 HDi	DV6TED4	110	4	02/04 -	Euro IV	HDF939	HDS399
	407	1.6 HDi FAP	-	109	4	05/04 -	-	HDF939	-
	407	1.6 HDi	DV6TED4	110	4	05/04 -	Euro IV	HDF939	HDS399
	407	2.7 HDi	-	204	6	10/05 -	-	HDF546	-
	407	2.7 HDi	-	204	6	10/05 -	-	HDF546	-
	407	2.7 HDi	-	204	6	10/05 -	-	HDF546	-
	607	2.7 HDi	-	204	6	12/05 -	-	HDF546	HDS404
<b>RENAULT</b>									
	Clio II	1.5 dCi	K9K700	55	4	06/01 - 2005	Euro III	HDF907	HDS368
	Clio II	1.5 dCi	K9K702	65	4	06/01 - 2005	Euro III	HDF907	HDS368
	Clio II	1.5 dCi	K9K702	65	4	06/01 - 2005	Euro III	HDF913(1)	HDS368
	Clio II	1.5 dCi	K9K704	80	4	06/01 - 2005	Euro III	HDF907	HDS368
	Clio II	1.5 dCi	K9K712	100	4	06/01 - 2005	Euro III	HDF907	HDS368
	Clio II	1.5 dCi	K9K700	55	4	06/01 - 2005	Euro III	HDF941	HDS368
	Clio II	1.5 dCi	K9K702	65	4	06/01 - 2005	Euro III	HDF941	HDS368
	Clio II	1.5 dCi	K9K702	65	4	06/01 - 2005	Euro III	HDF938(1)	HDS368
	Clio II	1.5 dCi	K9K702	65	4	06/01 - 2005	Euro III	HDF946(1)	HDS368
	Clio II	1.5 dCi	K9K704	80	4	06/01 - 2005	Euro III	HDF941	HDS368
	Clio II	1.5 dCi	K9K712	100	4	06/01 - 2005	Euro III	HDF941	HDS368
	Clio III	1.5 dCi	K9K	68	4	2006 -	Euro IV	HDF944	-
	Clio III	1.5 dCi	K9K	86	4	2006 ?	Euro IV	HDF944	-
	Grand Scenic II	1.5 dCi	-	80	4	2004-2005	Euro III	HDF915	HDS368
	Grand Scenic II	1.5 dCi	-	100	4	2004-2005	Euro III	HDF915	HDS368
	Grand Scenic II	1.5 dCi	-	80	4	2004-2005	Euro III	HDF943	HDS368
	Grand Scenic II	1.5 dCi	-	100	4	2004-2005	Euro III	HDF943	HDS368
	Kangoo II	1.5 dCi	K9K700	55	4	12/01 -	Euro III	HDF907	HDS368
	Kangoo II	1.5 dCi	K9K702	65	4	12/01 ?	Euro III	HDF907	HDS368
	Kangoo II	1.5 dCi	K9K702	65	4	12/01 -	Euro III	HDF913(1)	HDS368
	Kangoo II	1.5 dCi	K9K704	80	4	12/01 ?	Euro III	HDF907	HDS368
	Kangoo II	1.5 dCi	K9K700	55	4	12/01 -	Euro III	HDF941	HDS368
	Kangoo II	1.5 dCi	K9K702	65	4	12/01 ?	Euro III	HDF941	HDS368
	Kangoo II	1.5 dCi	K9K702	65	4	12/01 -	Euro III	HDF938(1)	HDS368
	Kangoo II	1.5 dCi	K9K702	65	4	12/01 ?	Euro III	HDF946(1)	HDS368
	Kangoo II	1.5 dCi	K9K704	80	4	12/01 -	Euro III	HDF941	HDS368
	Master	2.2 dCi	G9T720	90	4	03/01 ?	Euro III	HDF920	HDS368
	Megane I	1.5 dCi	K9K722	80	4	10/02 -	Euro III	HDF915	HDS368
	Megane I	1.5 dCi	K9K722	80	4	10/02 ?	Euro III	HDF917(1)	HDS368
	Megane I	1.5 dCi	K9K722	80	4	10/02 -	Euro III	HDF943	HDS368
	Megane I	1.5 dCi	K9K722	80	4	10/02 ?	Euro III	HDF937(1)	HDS368

Manufacturer	Model	Engine	Engine code	BHP/Kw	Cyl	Date range	Emissions standard	Filter	Glow Plug
<b>RENAULT CONT'D</b>									
	Megane I	1.5 dCi	K9K722	80	4	10/02 -	Euro III	HDF942(1)	HDS368
	Megane I	1.5 dCi	K9K728	100	4	2003 ?	Euro III	-	HDS368
	Megane I	1.5 dCi	K9K729	100	4	2003 ?	Euro III	-	HDS368
	Megane I	1.5 dCi	K9K724	86	4	-	Euro IV	-	HDS368
	Modus	1.5 dCi	-	65	4	2004 ?	Euro III	HDF944	HDS368
	Modus	1.5 dCi	-	65	4	2004 -	Euro III	HDF945(1)	HDS368
	Modus	1.5 dCi	-	80	4	2004 ?	Euro III	HDF944	HDS368
	Modus	1.5 dCi	-	80	4	2004 -	Euro III	HDF945(1)	HDS368
	Scenic II	1.5 dCi	-	80	4	2003 ?	Euro III	HDF915	HDS368
	Scenic II	1.5 dCi	-	80	4	2003 -	Euro III	HDF917(1)	HDS368
	Scenic II	1.5 dCi	-	100	4	2003 ?	Euro III	HDF915	HDS368
	Scenic II	1.5 dCi	-	80	4	2003 -	Euro III	HDF943	HDS368
	Scenic II	1.5 dCi	-	80	4	2003 ?	Euro III	HDF937(1)	HDS368
	Scenic II	1.5 dCi	-	80	4	2003 -	Euro III	HDF942(1)	HDS368
	Scenic II	1.5 dCi	-	100	4	2003 ?	Euro III	HDF943	HDS368
	Thalia	1.5 dCi	-	65	4	2001 -	Euro III	HDF907	HDS368
	Thalia	1.5 dCi	-	65	4	2001 ?	Euro III	HDF913(1)	HDS368
	Thalia	1.5 dCi	-	65	4	2005 -	Euro III	HDF941	HDS368
	Thalia	1.5 dCi	-	65	4	2005 ?	Euro III	HDF938(1)	HDS368
	Thalia	1.5 dCi	-	65	4	2005 -	Euro III	HDF946(1)	HDS368
	Trafic	1.9 DCi	F9Q762	82	4	03/01 ?	Euro III	HDF920	HDS368
<b>SSANGYONG</b>									
	Kyron	2.7 Xdi	D27DT	165	5	2006 -	Euro III	HDF924	-
	Rexton	2.7 Xdi	D27DT	165	5	08/03 -	Euro III	HDF924	HDS377
	exton	2.7 Xdi	D27DT	165	5	08/03 -	Euro III	HDF925	HDS377
<b>SUZUKI</b>									
	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)	-
<b>TATA</b>									
	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	-
<b>VAXHALL</b>									
	Monovan	2.2 Dti	G9T-720	90	4	09/00 -	Euro III	HDF920	HDS396
	Vivaro	1.9 Dti	-	-	4	-	Euro III	HDF920	HDS368
<b>VOLVO</b>									
	S40	1.6 D	DV6TED4	110	4	11/04 -	Euro IV	HDF939	HDS399 (1) WITH WATER SENSOR

(1) WITH WATER SENSOR





## 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/Kw	Cyl	Date range	Emissions standard	Pump Rail	Rail Injector 1	Rail Injector 2	Rail Injector 3	Rail Injector 4	Rail Injector 5
<b>CITROEN</b>												
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	DV4TD	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	-
<b>FORD</b>												
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 -	Euro III	HPP410	HPP411	HPP412	HPP411	HPP412	-
Mondeo III (Single box)	2.0 TDCi 16v	Puma	130	4	06/03 -	Euro III	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 -	Euro IV	HPP410	HPP411	HPP412	HPP411	HPP412	-
Mondeo IV	2.0 TDCi 16v	Puma	130	4	09/03 -	Euro IV	HPP410	HPP411	HPP412	HPP411	HPP412	-
Tourneo Connect	1.8 TDCi	Lynx	90	4	09/02 -	Euro III	HPP400	HPP401	HPP402	HPP403	HPP404	-
Transit (FWD)	2.0 TDCi	Puma	125	4	08/02 -	Euro III	HPP410	HPP411	HPP412	HPP411	HPP412	-
Transit Connect	1.8 TDCi	Lynx	90	4	09/02 -	Euro III	HPP400	HPP401	HPP402	HPP403	HPP404	-

Manufacturer Model	Engine	Engine code	BHP/Kw	Cyl	Date range	Emissions standard	Pump Rail	Rail Injector 1	Rail Injector 2	Rail Injector 3	Rail Injector 4	Rail Injector 5
<b>HYUNDAI</b>												
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	-
<b>JAGUAR</b>												
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	-
<b>KIA</b>												
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	-
<b>NISSAN</b>												
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	-
<b>PEUGEOT</b>												
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	





# High Pressure Pipes – Applications

Manufacturer Model	Engine	Engine code	BHP/Kw	Cyl	Date range	Emissions standard	Pump Rail	Rail Injector 1	Rail Injector 2	Rail Injector 3	Rail Injector 4	Rail Injector 5
<b>PEUGEOT CONT'D</b>												
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	2.0 HDi	DW10TD	90	4	02/00 -	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
<b>RENAULT</b>												
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 Coupe-Cabriolet 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/Kw	Cyl	Date range	Emissions standard	Pump Rail	Rail Injector 1	Rail Injector 2	Rail Injector 3	Rail Injector 4	Rail Injector 5
<b>RENAULT CONT'D</b>												
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	-
<b>SSANGYONG</b>												
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
<b>SUZUKI</b>												
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	DCU	Venturi kit	Caps kit	Fuel heater	Water sensor	Filter bracket	'O' ring Pump Nozzle	Oldham Coupling	Back Leak Circuit Assembly	Sedimentor	Priming pump
<b>CITROEN</b>																				
C3	1.4 HDi 16v	DV4TED4	92	4	02/02 -	Euro III	-	9109-903	-	R0411C0011	9306-010A	9109-910	9305-108C	-	-	-	-	-	-	-
C3 XTR	1.4 HDi 16v	DV4TED4	92	4	01/04 - 12/05	Euro III	-	9109-903	-	R0411C0011	9306-010A	9109-910	9305-108C	-	-	-	-	-	-	-
C4	2.0 HDi 16v	DW10BTE4	134	4	10/06 -	Euro IV	9144A180A	9109-927	9307-503A (1)	R0413C004E	-	9109-928	-	-	-	-	7190-067	-	-	-
<b>DACIA</b>																				
Logan	1.5 dCi	K9K790	65	4	09/05 -	Euro III	9144A010D	9109-903	9307-503A (1)	-	9109-904	9109-926	-	9305-118A (9)	-	-	-	-	-	-
Logan	1.5 dCi	K9K792	68	4	01/06 -	Euro IV	9144A070A	9109-903	9307-503A (1)	-	9109-904	9109-926	-	9305-118A (9)	-	-	-	-	-	-
<b>FORD</b>																				
Focus I	1.8 TDCi	Lynx	100	4	09/02 - 11/04	Euro III	9144A020D	9109-903	9307-506A (2)	R0411A001CS (6)	9109-904	9109-912	-	-	7245-091	-	-	-	-	-
Focus I	1.8 TDCi	Lynx	115	4	03/01 - 11/04	Euro III	9144A020D	9109-903	9307-506A (2) / 9307-503A (1)	R0410C031C (3) / R0410C005N (4)	9109-904	9109-912	-	-	7245-091	-	-	-	-	-
Mondeo	2.2 TDCi 16v	Puma	152	4	05/05 -	Euro IV	9144A130A	9109-903	9307-506A (2)	R0411A001DS (6)	9109-911A	9109-912	-	-	-	-	-	-	-	-
Mondeo (Single box)	2.0 TDCi 16v	Puma	115	4	06/03 -	Euro III	9144A050B	9109-903	9307-506A (2)	R0411A001CS (6)	9109-911A	9109-912	-	-	-	-	-	-	-	-
Mondeo (Single box)	2.0 TDCi 16v	Puma	130	4	01/03 - 06/03	Euro III	9144A050B	9109-903	9307-506A (2)	R0411A001CS (6)	9109-911A	9109-912	-	-	-	-	-	-	-	-
Mondeo (Single box)	2.0 TDCi 16v	Puma	130	4	06/03 -	Euro III	9144A050B	9109-903	9307-506A (2)	R0411A001CS (6)	9109-911A	9109-912	-	-	-	-	-	-	-	-
Mondeo (Twin box)	2.0 TDCi 16v	Puma	130	4	10/01 - 06/03	Euro III	9144A050B	9109-903	9307-506A (2)	R0410C031C (3) / R0410C005N (4)	9109-911A	9109-912	-	-	-	-	-	-	-	-
Mondeo (Twin & Single box)	2.0 TDCi 16v	Puma	115	4	08/02 - 06/03	Euro III	9144A050B	9109-903	9307-506A (2)	R0410C031C (3) / R0410C005N (4)	9109-911A	9109-912	-	-	-	-	-	-	-	-
Mondeo CDPF	2.0 TDCi 16v	Puma	130	4	11/05 -	Euro IV	9144A130A	9109-903	9307-506A (2)	R0411A001ES (6)	9109-911A	9109-912	-	-	-	-	-	-	-	-
Mondeo III	2.2 TDCi 16v	Puma	155	4	09/04 -	Euro III	9144A050B	9109-903	9307-506A (2)	R0411A001CS (6)	9109-911A	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	-	-	-	-	-	-	-	-
Tourneo Connect	1.8 TDCi	Lynx	90	4	09/02 -	Euro III	9144A020D	9109-903	9307-506A (2)	R0411A001CS (6)	9109-904	9109-912	-	-	7245-091	-	-	-	-	-
Transit (FWD)	2.0 TDCi	Puma	125	4	08/02 -	Euro III	9144A050B	9109-903	9307-506A (2)	R0411A001CS (6)	9109-911A	9109-912	-	-	-	-	-	-	-	-
Transit (RWD)	2.4 TDCi	Puma	137	4	03/04 -	Euro III	9144A050B	9109-903	9307-506A (2)	R0411A001CS (6)	9109-911A	9109-912	-	-	-	-	-	-	-	-
Transit Connect	1.8 TDCi	Lynx	90	4	09/02 -	Euro III	9144A020D	9109-903	9307-506A (2)	R0411A001CS (6)	9109-904	9109-912	-	-	7245-091	-	-	-	-	-
<b>HYUNDAI</b>																				
Terracan	2.9 CRDi 2WD	HP	150	4	10/03 -	Euro III	9144A032A	9109-903	9307-503A (1)	R0410C046C (DOM) / R0410C047C (Euro)	9109-905	9109-902	9305-117B	9305-116B	-	-	-	-	-	6224050
Terracan	2.9 CRDi 2WD	HP	150	4	01/04 -	Euro III	9144A060A	9109-903	9307-503A (1)	R0410C046C (DOM) / R0410C047C (Euro)	9109-905	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)	R0410C048B (DOM)	9109-905	9109-902	9305-117B	9305-116B	-	-	-	-	-	6224050
Terracan	2.9 CRDi 4WD	HP	150	4	01/04 -	Euro III	9144A060A	9109-903	9307-503A (1)	R0410C048B (DOM)	9109-905	9109-902	9305-117B	9305-116B	-	-	-	-	-	6224050
Terracan	2.9 CRDi 4WD	HP	150	4	01/04 -	Euro III	9144A060A	9109-903	9307-503A (1)	R0410C048B (DOM)	9109-905	9109-902	9305-117B	9305-116B	-	-	-	-	-	6224050
Terracan	2.9 CRDi 4WD	HP	150	4	08/05 -	Euro III	9144A032A	9109-903	9307-503A (1)	R0410C048B (DOM)	9109-905	9109-902	9305-117B	9305-116B	-	-	-	-	-	6224050
<b>JAGUAR</b>																				
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	-	-	-	-	-	-	-	-
<b>JCB</b>																				
Loadall	4.4 L	-	97	4	03/07 -	Tier III	9144A200A	9109-927	9307-503A (1)	B0211A011A	9109-905	-	-	-	-	-	-	-	-	-
Loading Showel	4.4 L	-	108	4	03/07 -	Tier III	9144A200A	9109-927	9307-503A (1)	B0211A011A	9109-905	-	-	-	-	-	-	-	-	-
Telescopic Handler	4.4 L	-	120	4	03/07 -	Tier III	9144A200A	9109-927	9307-503A (1)	B0211A011A	9109-905	-	-	-	-	-	-	-	-	-
<b>JMC</b>																				
Transit	2.8 L	4JB1TCI	114	4	02/06 -	Euro III	-	9109-903	9307-503A (1)	-	9109-905	-	-	-	7245-091	-	-	-	7245-173	-
<b>KIA</b>																				
Bongo	2.9 CRDi	KJ	144	4	10/03 - 01/04	Euro III	9144A032A	9109-903	9307-503A (1)	R0410C094C (DOM)	9109-905	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Bongo	2.9 CRDi	KJ	144	4	01/04 -	Euro III	9144A060A	9109-903	9307-503A (1)	R0410C094C (DOM)	9109-905	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)	R0410C044E (DOM) / R0410C187A (Euro)	9109-905	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Carnival	2.9 CRDi	KJ	144	4	01/04 -	Euro III	9144A060A	9109-903	9307-503A (1)	R0410C044E (DOM) / R0410C187A (Euro)	9109-905	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Carnival	2.9 CRDi	KJ	185	4	06/06 -	Euro IV	9144A100A	9109-930	7190-185	R0412C001G	9300-005B	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	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)	R0410C094C (DOM)	9109-905	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Frontier	2.9 CRDi	KJ	144	4	01/04 -	Euro III	9144A060A	9109-903	9307-503A (1)	R0410C094C (DOM)	9109-905	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)	R0410C093A	9109-905	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Pregio	2.9 CRDi	KJ	144	4	01/04 -	Euro III	9144A060A	9109-903	9307-503A (1)	R0410C493A	9109-905	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)	R0410C044E (DOM) / R0410C187A (Euro)	9109-905	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Sedona	2.9 CRDi	KJ	144	4	01/04 -	Euro III	9144A060A	9109-903	9307-503A (1)	R0410C044E (DOM) / R0410C187A (Euro)	9109-905	9109-902	9305-117B	9305-116A	-	-	-	-	-	6224030
Sedona	2.9 CRDi	KJ	185	4	07/06 -	Euro IV	9144A100A	9109-930	7190-185	R0412C001G	9300-005B	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
<b>MERCEDES-BENZ</b>																				
C Class 220	2.2 CDI	OM646	100Kw [+DPF]	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	100Kw [-DPF]	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	120Kw [+DPF]	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	125Kw [+DPF]	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	125Kw [-DPF]	4	01/07 -	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
E Class 220	2.2 CDI	OM646																		



# Other Common Rail Components – Applications

Manufacturer Model	Engine	Engine code	BHP/Kw	Cyl	Date range	Emissions standard	Rail	IMV	Temperature sensor	DCU	Venturi kit	Caps kit	Fuel heater	Water sensor	Filter bracket	'O' ring Pump Nozzle	Oldham Coupling	Back Leak Circuit Assembly	Sedimentor	Priming pump
<b>PEUGEOT</b>																				
307	2.0 HDi	DW10BTE4	136	4	06/06 -	Euro IV	9144A180A	9109-927	9307-503A (1)	R0413C004E	-	9109-928	-	-	-	-	7190-067	-	-	-
407	2.0 HDi	DW10BTE4	136	4	10/06 -	Euro III	9144A180A	9109-927	9307-503A (1)	R0413C003F	-	9109-928	-	-	-	-	7190-067	-	-	-
407	2.0 HDi	DW10BTE4	136	4	10/06 -	Euro IV	9144A180A	9109-927	9307-503A (1)	R0413C001G	-	9109-928	-	-	-	-	7190-067	-	-	-
<b>RENAULT</b>																				
Clio II	1.5 dCi	K9K700 / 704	65	4	05/01 -	Euro III	9144A010D	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)	R0410C050A (K700) / R0410C066A (K704) / R0410C034A (7)	9109-904	9109-926	-	9305-118A (9)	-	-	-	-	-	-
Clio II	1.5 dCi	K9K710	55	4	06/02 -	Euro III	9144A010D	9109-903	9307-503A (1)	R0410C067A (K700) / R0410C037A (K704) / R0410C082A (K710 (3))	9109-904	9109-926	-	9305-118A (9)	-	-	-	-	-	-
Clio II	1.5 dCi	K9K712	100	4	06/01 - 2005	Euro III	9144A010D	9109-903	9307-503A (1)	-	9109-904	9109-926	-	9305-118A (9)	-	-	-	-	-	-
Clio II	1.5 dCi	K9K714	70	4	01/06 -	Euro IV	9144A070A	9109-903	9307-503A (1)	-	9109-904	9109-926	-	9305-118A (9)	-	-	-	-	-	-
Clio II	1.5 dCi	K9K716	60	4	01/06 -	Euro IV	9144A070A	9109-903	9307-503A (1)	-	9109-904	9109-926	-	9305-118A (9)	-	-	-	-	-	-
Clio II Campus	1.5 dCi	K9K700 / 704	65	4	01/06 -	Euro III	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	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	K9K766	84	4	06/06 -	Euro IV	9144A070A	9109-903	9307-503A (1)	-	9109-904	9109-926	-	9305-118A (9)	-	-	-	-	-	-
Clio III	1.5 dCi	K9K768	70	4	01/06 -	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	K9K700 / 704	65	4	05/01 -	Euro III	9144A010D	9109-903	9307-503A (1)	R0410C042A (K700) / R0410C041B & 51A (7) / R0410C063A & 65A (K704)	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)	R0410C038A (K702) / R0410C077A	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)	R0410C036C (K710) / R0410C064A (8) / R0410C076A	9109-904	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	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	K9K718	60	4	01/06 -	Euro IV	9144A070A	9109-903	9307-503A (1)	-	9109-904	9109-926	-	9305-118A (9)	-	-	-	-	-	-
Megane I	1.5 dCi	K9K722	80	4	10/02 -	Euro III	9144A010D	9109-903	9307-503A (1)	R0410B015B (6)	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)	-	-	-	-	-	-
Megane I	1.5 dCi	K9K729	100	4	01/03 -	Euro III	9144A010D	9109-903	9307-503A (1)	-	9109-904	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)	-	-	-	-	-	-
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	K9K752	65	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	K9K762	70	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)	-	-	-	-	-	-
Modus	1.5 dCi	K9K768	70	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	K9K728	100	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)	-	-	-	-	-	-
Thalia	1.5 dCi	K9K700 / 704	65	4	05/01 -	Euro III	9144A010D	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)	R0410C050A (K700) / R0410C066A (K704) / R0410C034A (7)	9109-904	9109-926	-	9305-118A (9)	-	-	-	-	-	-
Thalia	1.5 dCi	K9K710	57	4	06/02 -	Euro III	9144A010D	9109-903	9307-503A (1)	R0410C067A (K700) / R0410C037A (K704) / R0410C082A (K710 (3))	9109-904	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)	-	-	-	-	-	-
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	K9K716	60	4	01/06 -	Euro IV	9144A070A	9109-903	9307-503A (1)	-	9109-904	9109-926	-	9305-118A (9)	-	-	-	-	-	-
<b>SAMSUNG</b>																				
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)	-	-	-	-	-	-
<b>SSANGYONG</b>																				
Actyon	2.0 Xdi	D20DT	141	4	09/05 -	Euro III	9144A090A	9109-903	9307-503A (1)	R0411C045D / R0411C055C (Actyon Sports)	9109-905	9109-917	9305-117B	9305-131A	7245-091	-	-	-	-	6224030
Actyon	2.0 Xdi	D20DT	141	4	10/06 -	Euro IV	9144A190A	9109-903	9307-503A (1)	R0412C008B	9109-905	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)	R0411C045D	9109-905	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)	R0411C044E	9109-905	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)	R0412C015A	9109-905	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)	R0411C044E	9109-905	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)	R0412C016A	9109-905	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)	R0411C043D / R0411C053A (AWD)	9109-905	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)	R0411C043D	9109-905	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)	R0411C009B (DOM) / R0411C025H (Euro)	9109-905	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)	R0412C004E (D27DTP) / R0412C017A (MAN) / R0412C018A (AWD)	9109-905	9109-917	9305-117B	9305-131A	7245-091	-	-	-	-	6224030





# Vehicle Manufacturer Cross-References

P/N DELPHI	P/N DELPHI	P/N DELPHI	P/N DELPHI	P/N DELPHI	P/N DELPHI	P/N DELPHI	P/N DELPHI	P/N DELPHI	P/N DELPHI				
<b>AC DELCO</b>	<b>CITROEN</b>	1S409B395TG	9044A016B	1361895	R00701D	KC 67	HDF523	MR 577131	HDS403	<b>QUINTON HAZELL</b>	A6640700133	9300-121A	
ACD 8070 E	HDF547	1570E1	HPP241	1S409C993AC	HPP401	1405016	HDF907	MR 597635	HDF544	WF8303	HDF551	A6640700195	9144A090A
XD 9028 E	HDF544	1570E2	HPP242	1S409C993BC	HPP402	1417832	HDF915	<b>MOTAQUIP</b>	HDF523	WF8308	HDF547	A6640700333	9300-122A
<b>ADL</b>		1570E3	HPP243	1S409C993CC	HPP403	1447707	HDF920	VFF177	HDF523	WF8309	HDF544	A6640700433	9300-123A
ADN12310	HDF523	1570E4	HPP244	1S409C993DC	HPP404	1669977	HDF920	VFF420	HDF523	<b>RENAULT</b>		A6650170121	R02601Z
ADN12311	HDF523	1570F1	HPP280	1S409D280AD				<b>MOTORCRAFT</b>	HDF523	7700 111 323	HDS368	A6650170221	R04401D
ADN12320	HDF523	1570F6	HPP281	1S409E800AB				EFG306	HDF523	7701 061 576	HDF913	A6650170321	R04601D
<b>ALCO</b>		1570C6	HPP221	1S409J323AC				<b>NGK</b>		7701 061 577	HDF917	A6650170321	R04601D
SP-1268	HDF545	1570C7	HPP220	2C109K546AB				CY07	HDS403	7701 061 578	HDF926	A6650700101	9044A051A
SP-2136	HDF551	1570C9	HPP240	2S606M090AA				CY57	HDS403	7701 061 578	HDF945	A6650700295	9145A0100
SP-2138	HDF544	1570F7	HPP282	2S709C993AB				Y-504J	HDS367	7701 062 072	HDF937	A6650700495	9300-126A
<b>ASHIKA</b>		1570G3	HPP260	2S709C993BB				Y-504R	HDS367	7701 062 104	HDF937	A6650700633	9300-077A
30-MO-02	HDF544	1570G4	HPP261	2S709D280AE				Y-515J	HDS368	7701 062 190	HDF938	A6650700732	9300-081A
<b>BERU</b>		1570G5	HPP262	2S709J323AD				Y-517J	HDS396	7701 063 611	HDF946	A6650700733	9300-078A
0 100 226 203	HDS383	1570G6	HPP250	2S709K546AJ				Y-745U	HDS377	7701 063 613	HDF942	A6650700833	9300-079A
0 100 226 260	HDS377	1570H5	HPP270	2T149155BC				Y-925U	HDS377	7701 206 804	9109-926	A6650700933	9300-124A
0 100 226 301	HDS379	1570H6	HPP231	2T149155BD				YE04	HDS399	7701 206 904	9307-503A	A6650701000	9300-125A
0 100 226 344	HDS367	1570H7	HPP232	2T149155CA				<b>NIPPARTS</b>		7701 206 905	9109-903	A6650701213	9300-126A
0 100 226 351	HDS396	1570H8	HPP233	2T149B072BA				J133109	HDF523	7701 206 906	9109-904	A6650701333	9300-127A
0 100 226 373	HDS368	1570H9	HPP234	2T149B072BC				J1335058	HDF544	7701 206 928	HDF920	A6650702033	9300-128A
0 100 226 379	HDS377	1570J0	HPP230	2T149B072CA				<b>NISSAN</b>		8200 012 099	HDS396	A6650702233	9300-129A
0 100 226 384	HDS379	1570J7	HPP201	2T109F593AA				11065-00QAB	HDS396	8200 026 237	HDF907	A6650702333	9300-127A
0 100 226 385	HDS383	1570J8	HPP202	3M509155BB				16403-59E00	HDF523	8200 057 345	9144A010D	A6650710000	6224030
0 100 226 395	HDS377	1570J9	HPP200	3M509155CA				16403-G9900	HDF523	8200 151 379	HDF913	A6650921001	HDF925
0 100 226 419	HDS377	1570L0	HPP210	3S419B072CA				16405-05E01	HDF523	8200 186 217	HDF915	A6650921101	HDF924
0 100 226 458	HDS377	1570 L9		3S719155BA				A640C59EMOSA	HDF523	8200 186 218	HDF917	A6650921101	HDF924
0 100 226 473	HDS377	1901 67	9144A180A	3S709K546AB				NF2359	HDF523	8200 212 346	R0410C042A	A665400132	R0411C025H
0 100 276 004	HDS399	1901 78	HDF939	3S709K546BB				<b>NISSAN COM'L/MOTOR IBERICA</b>	HDF920	8200 290 182	HDF945	<b>TATA</b>	
GN003	HDS377	1906 96	HDF546	3S709K546CB				1640500QAA	HDF920	8200 294 143	HDF944	2534 0710 01 06	9044A110A
GN018	HDS368	1933 29	9109-903	4C109K546AB				<b>PEUGEOT</b>		8200 317 295	HPP110	2797 0714 01 03	9144A080A
GN026	HDS396	1980 91	R01001A	4S409D995AA				1570E1	HPP241	8200 317 296	HPP100	2790 0911 01 08	6224030
GN027	HDS367	1920 ET	9042A023A	4S709K546BD				1570E2	HPP242	8200 324 300	HPP130	<b>TECAFILTRES</b>	
GN047	HDS399	1920 LP	9424A000A	4U7112A650EA				1570E3	HPP243	8200 324 485	HPP131	KC67	HDF523
GN939	HDS383	1920 NH	9307-503A	5M509176AA				1570E4	HPP244	8200 324 487	HPP132	<b>TECHOCAR</b>	
GN993	HDS379	1933 39	9109-927	5S709B395AA				1570F1	HPP280	8200 324 488	HPP133	RN141B	HDF523
<b>BMW</b>		1933 40	7190-067	5S709K546AB				1570F6	HPP281	8200 324 489	HPP134	RN1632	HDF523
13 32 7 787 476	HDF548	1980 K3	R03801D	6S709B395AA				1570C6	HPP221	8200 332 221	HPP101	RN226	HDF924
13 32 7 787 477	HDF551	5960 19	HDS399	6S709B395TA				1570C7	HPP220	8200 333 022	R02701Z	RN232	HDF544
13 32 7 787 549	HDF551	5962 4J	HDS368	6S709K546AA				1570C9	HPP240	8200 379 933	9144A070A	RN235	HDF907
13 32 7 791 034	HDF551	96 513 991 80	R0411C0011	6U7112A650FA				1570F7	HPP282	8200 400 416	HDF938	<b>UNI</b>	
13 32 7 794 549	HDF548	96 569 083 80	R0411C023D	95VW6M090AA				1570G3	HPP260	8200 400 418	HDF937	24.001.00	HDF545
13 32 7 794 590	HDF551	9780 E1	9109-910	95VW6M090AB				1570G4	HPP261	8200 447 197	HDF945	24.375.00	HDF523
16 12 6 765 756	HDF550	9780 E2	9109-913	XS4U6M090AB				1570G5	HPP262	8200 447 199	HDF944	24.436.00	HDF544
<b>BOSCH</b>		9780 Z8	9109-928	XS7U6M090AA				1570G6	HPP250	8200 450 225	HPP140	24.002.00	HDF547
0 450 906 450	HDF548	ZY34027551	R0411C028B	XS7U6M090BA				1570H5	HPP270	8200 458 337	HDF941	24.002.00	HDF547
0 450 906 458	HDF549	<b>CLEAN</b>		<b>FORD (FINIS)</b>				1570H6	HPP231	8200 458 397	HDF946	26.014.00	HDF547
0 450 906 459	HDF545	DN1908	HDF544	1037204				1570H7	HPP232	8200 458 420	HDF943	26.014.00	HDF547
0 450 906 462	HDF551	DN1953	HDF924	1079401				1570H8	HPP233	8200 458 424	HDF942	26.014.00	HDF547
0 450 906 463	HDF550	<b>CLEAN FILTER</b>		1096527				1570H9	HPP234	8200 503 216	HPP150	26.002.00	HDF547
0 250 202 022 (DURATERM)	HDS368	MGC1682	HDF907	1131968				1570J0	HPP230	8200 513 163	R0410B034A	26.014.00	HDF547
0 250 202 029 (DURATERM)	HDS377	MGC1683	HDF939	1131969				1570J7	HPP201	8200 529 459	HPP120	31.824.00	HDF548
0 250 202 032 (DURATERM)	HDS367	MGC1684	HDF915	1131992				1570J8	HPP202	8200 553 570	R04101D	31.838.00	HDF551
0 250 202 128 (DURATERM)	HDS396	<b>CROSLAND</b>		1132913				1570J9	HPP200	8200 561 657	HPP120	31.839.00	HDF550
0 250 202 130 (DURATERM)	HDS383	5017	HDF523	1137026				1570L0	HPP210	8200 567 290	R04001D	31.839.00	HDF550
0 250 202 131 (DURATERM)	HDS379	<b>FEBI BILSTEIN</b>		1142601				1570 L9	9144A180A	8200 577 990	9042A042A	<b>UNIPART</b>	
0250 312 007	HDS403	21866	HDS396	1148105				1901 67	HDF939	8200 600 509	HPP101	C2C22269	HDF928
1 457 431 715	HDF547	<b>FIAAM</b>		1151056				1901 78	HDF939	8200 613 188	HPP150	C2S27643	HDF924
1 457 434 281	HDF523	FA5695ECO	HDF547	1204234				1906 95	HDF546	8200 613 199	HPP130	GGP17	HDS383
1 457 434 437	HDF544	FP5145	HDF523	1219725				1920 LP	9424A000A	8200 613 201	HPP131	<b>VAG</b>	
<b>CHAMPION</b>		FP5660	HDF544	1220621				1920 NH	9307-503A	8200 613 202	HPP132	057 127 435 C	HDF549
CH170	HDS367	FP5666	HDF548	1225660				1933 39	9109-927	8200 613 204	HPP133	057 127 435 E	HDF549
CH184	HDS368	FP5750	HDF907	1226331				1933 40	7190-067	8200 613 205	HPP134	1K0 127 177	HDF547
CH196	HDS379	<b>FORD</b>		1230978				1980 K3	R03801D	8200 614 298	HPP110	1K0 127 400 C	HDF547
CH200	HDS399	1148069	HPP240	1230979				5960 12	HDS399	8200 614 299	HPP100	1K0 127 177 A	HDF547
CH215	HDS374	1219483	HPP241	1254391				5962 3C	HDS367	8200 676 774	HDS367	1K0 127 400 C	HDF547
CH218	HDS377	1219485	HPP242	1307448				5962 3E	HDS367	8200 678 701	HDS367	1K0 127 434	HDF547
CH229	HDS383	1219488	HPP243	1307449				5962 4J	HDS368		HDS368	1K0 127 434 A	HDF547
CH232	HDS396	1219497	HPP244	1307592				9780 Z8	9109-928		HDS368	4F0 127 435	HDF545
CH240	HDS404	1338833	HPP262	1307705				<b>PSA</b>			HDF939	4F0 127 435 A	HDF545
CH268	HDS406	1347277	HPP261	1308237				1901 78	HDF939		HDF939	4F0 127 435 A	HDF545
CH602	HDS403	1347284	HPP260	1309471				1901 81	HDF939		HDF939	<b>VAICO</b>	
CH701	HDS415	1365150	HPP200	1319685				<b>PURFLUX</b>			HDF544	10-0208	HDF547
L145	HDF523	1365162	HPP202	1327532				C496	HDF920		HDF544	30-8172	HDF544
L410/606	HDF907	1365164	HPP201	1329101				CS439	HDF523		HDF544	<b>VOLVO</b>	
L412/606	HDF915	1S419155AC	HDF924	1334038				CS499	HDF544		HDF544	30750085	HDF939
L429/606	HDF548	1S419B072AD	HDF924	1334446				FCS4					

