



## Introduction to Common Rail

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

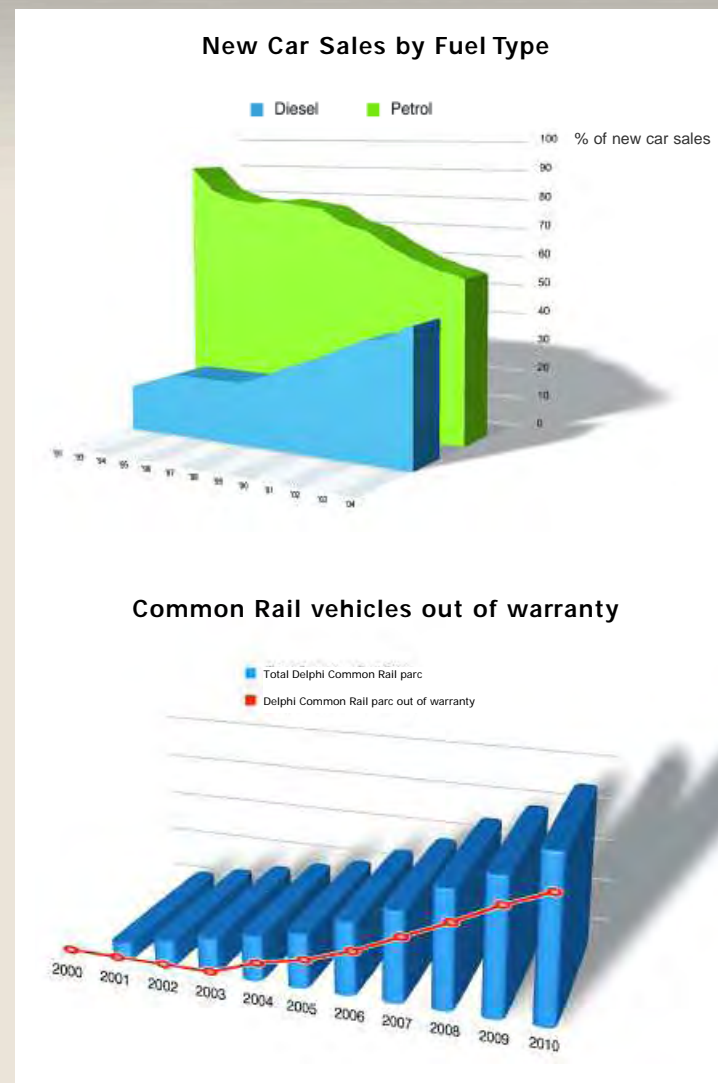
The modern direct-injection engine is a pre-requisite for new diesel-powered passenger vehicles across Europe. It is the only technology to address all planned European emissions legislation, whilst enhancing reliability, performance and fuel economy.

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.



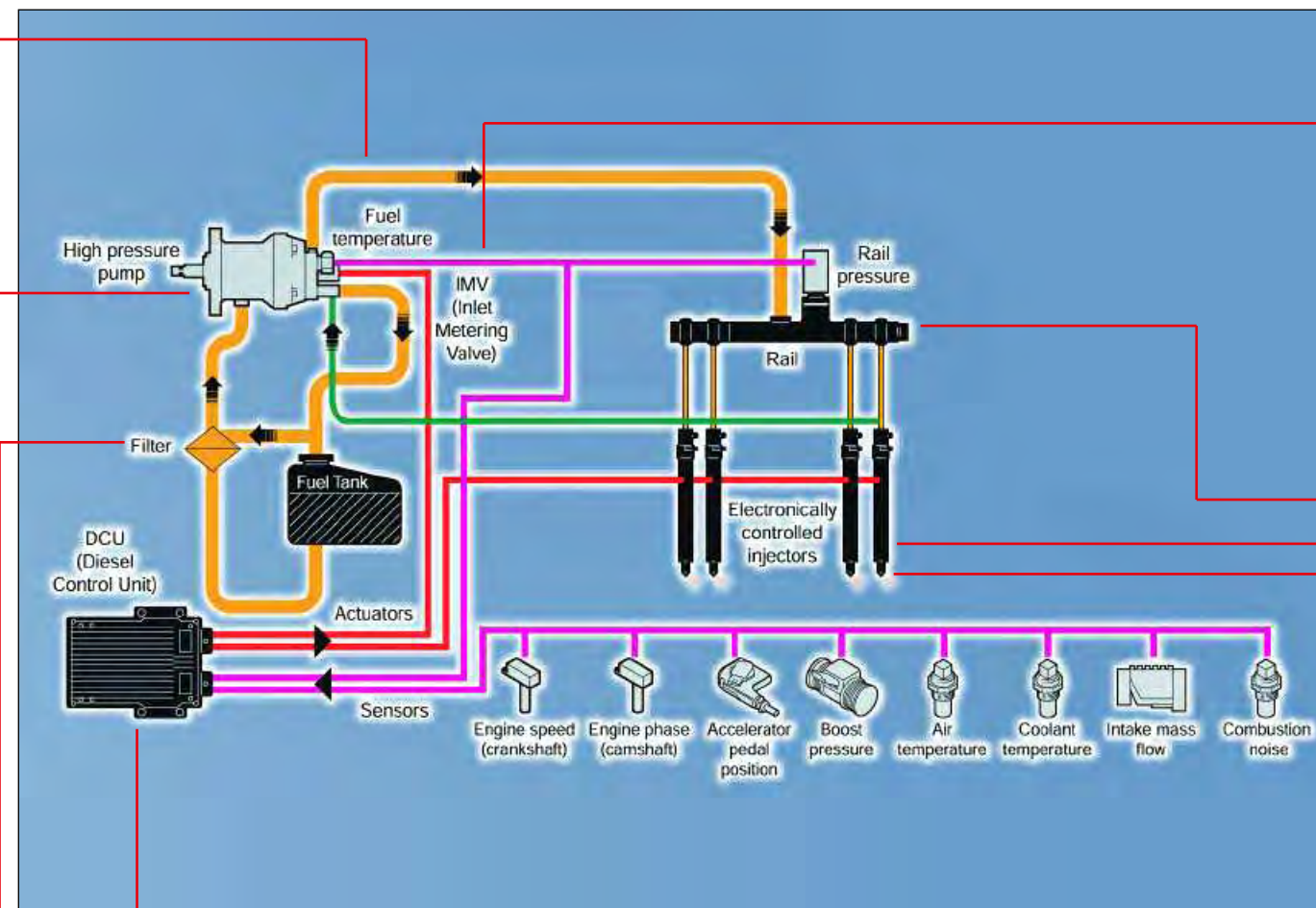
### HIGH PRESSURE PUMP

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.



### 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.

### 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.







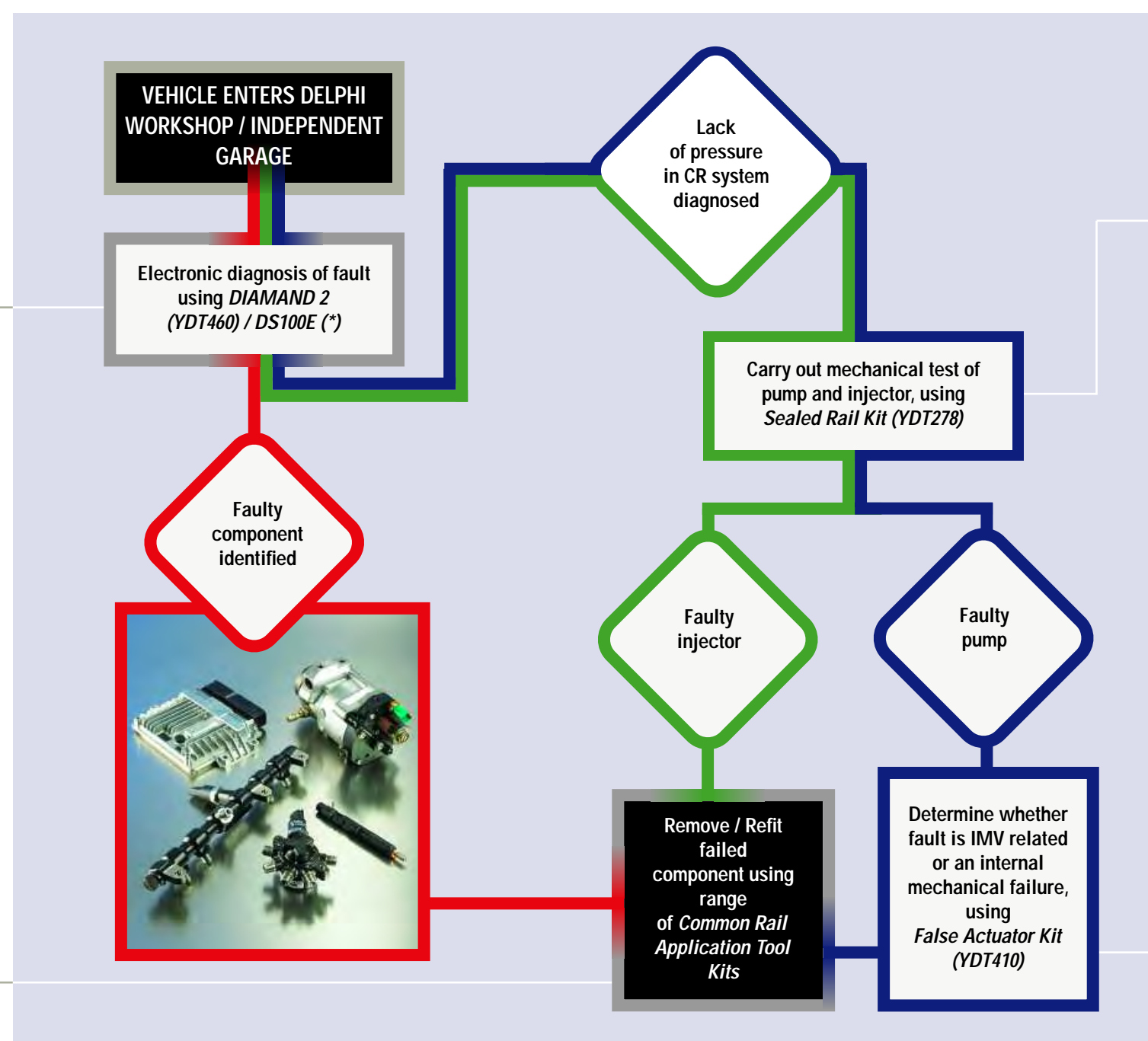
## Diagnostic and Test Equipment

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.



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									
	Terracan	2.9 CRDi	KJ	150	4	12/01 ➡	Euro III	9044A072A	( <sup>(1)</sup> Not homologated for Korean market)
	Terracan	2.9 CRDi 2WD	HP	150	4	10/03 ➡	Euro III	9044A072A	R02801D
	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	-
	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	-
	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									
	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)	R03401D
	Kyron	2.0 Xdi	D20DT	100	4	05/05 ➡	Euro III	9044A051A / 9044A052A (3)	R03401D
	Kyron	2.0 Xdi	D20DT	100	4	06/06 ➡	Euro IV	9044A051A / 9044A052A (3)	R04501D
	Kyron (China)	2.0 Xdi	D20DT	100	4	06/06 ➡	Euro III	9044A160A / 9044A161A (4)	R03401D
	Kyron	2.7 Xdi	D27DT	165	5	05/05 ➡	Euro III	9044A051A / 9044A052A (3)	R02601Z / R04601D (5)
	Kyron	2.7 Xdi	D27DT	165	5	07/06 ➡	Euro IV	9044A051A / 9044A052A (3)	R04401D
	Kyron (China)	2.7 Xdi	D27DT	165	5	03/06 ➡	Euro III	9044A160A / 9044A161A (4)	R02601Z / R04601D (5)
	Rexton	2.7 Xdi	D27DT	163	5	11/03 ➡	Euro III	9044A051A / 9044A052A (3)	R02601Z / R04601D (5)
	Rexton	2.7 Xdi	D27DT	163	5	08/06 ➡	Euro IV	9044A051A / 9044A052A (3)	R04401D
	Rexton (China)	2.7 Xdi	D27DT	163	5	03/06 ➡	Euro III	9044A160A / 9044A161A (4)	R02601Z / R04601D (5)
	Rodius	2.7 Xdi	D27DT	168	5	04/04 ➡	Euro III	9044A051A / 9044A052A (3)	R02601Z / R04601D (5)
	Rodius	2.7 Xdi	D27DT	168	5	09/06 ➡	Euro IV	9044A051A / 9044A052A (3)	R04401D
	Rodius (China)	2.7 Xdi	D27DT	168	5	03/06 ➡	Euro III	9044A160A / 9044A161A (4)	R02601Z / R04601D (5)
	Stavic	2.7 Xdi	D27DT	168	5	04/04 ➡	Euro III	9044A051A / 9044A052A (3)	R02601Z / R04601D (5)
	Stavic	2.7 Xdi	D27DT	168	5	09/06 ➡	Euro IV	9044A051A / 9044A052A (3)	R04401D
	Stavic (China)	2.7 Xdi	D27DT	168	5	03/06 ➡	Euro III	9044A160A / 9044A161A (4)	R02601Z / R04601D (5)
SUZUKI									
	Jimny	1.5 DDIS	K9K262	65	4	01/04 ➡	Euro III	9042A070A	R04101D
	Jimny	1.5 DDIS	K9K266	85	4	12/05 ➡	Euro IV	9042A070A	R05101D
	Liana	1.4 16v	DV4TED4	90	4	03/05 ➡	Euro III	9042A070A	R01001A
TATA (TELCO)									
	Indica	1.4 D	DICOR	69	4	08/06 ➡	Euro IV	9042A050A	R04301D
	Indigo	1.4 D	DICOR	69	4	08/06 ➡	Euro IV	9042A050A	R04301D
	Marina	1.4 D	DICOR	69	4	08/06 ➡	Euro IV	9042A050A	R04301D
	Safari	2.2 D	DICOR	140	4	04/07 ➡	Euro IV	9044A140A	R04901D
	Safari	3.0 D	BS3 DICOR	115	4	01/05 ➡	Euro III	9044A110A	R03501D





## 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 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

Manufacturer Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Filter	Glow Plug
JAGUAR								
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	-
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	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	DW10UTD	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	DW10UTD	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	DW10UTD	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 →	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	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	DW10UTD	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	DW10UTD	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	2.0 HDi	DW10UTD	84	4	04/02 ➡	-	HPP200	HPP201	HPP202	HPP201	HPP202	-	
	Boxer Flatbed	2.2 HDi	DW12UTED	101	4	04/02 ➡	-	HPP210	HPP201	HPP202	HPP201	HPP202	-	
	Boxer Flatbed	2.2 HDi	DW12UTED	101	4	04/02 ➡	-	HPP210	HPP201	HPP202	HPP201	HPP202	-	
	Expert	2.0 HDi	DW10ATED	109	4	07/00 ➡	-	HPP200	HPP201	HPP202	HPP201	HPP202	-	



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 Combispacer	2.0 HDi	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												
Jimny	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	-	9305-118A (9)	-	-	-	-	-	-
Logan	1.5dCi	K9K792	68	4	01/06 ➡	Euro IV	9144A070A	9109-903	9307-503A (1)	9109-904	-	9109-926	-	9305-118A (9)	-	-	-	-	-	-
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 (twin /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 (twin 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																				
Bongo	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	-	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 [+]-DPF	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 [-]-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	161 [+]-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	168 [+]-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	168 [-]-DPF	4	01/07 ➡	Euro IV	9144A142A	9109-930	7190-185	-	-	9109-929	-	-	-	7190-065KA	7190-066	9308-627A	-	-
E Class 200	2.2 CDI	OM																		





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
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																		



Cross-References

P/N DELPHI		P/N DELPHI		P/N DELPHI		P/N DELPHI	
<b>AC DELCO</b>		<b>CITROEN</b>		1S4098395TG		9044A0168	
ACD 8070 E	HDF547	1570E1	HPP241	1570E1	HPP401	1405016	R00701D
XD 9028 E	HDF544	1570E2	HPP242	1570E2	HPP402	1417832	R0411A001E
<b>ADL</b>		1570E3	HPP243	1570E3	HPP403	1447707	9044A130A
ADN12310	HDF523	1570E4	HPP244	1570E4	HPP404	1669977	9044A130B
ADN12311	HDF523	1570F1	HPP280	1570F1	HPP404	HDS368	
ADN12320	HDF523	1570F6	HPP281	1570F6	HPP404	<b>FORD (MOTORCRAFT)</b>	
<b>ALCO</b>		1570C6	HPP221	1570C6	HPP400	EZD 37	HDS379
SP-1268	HDF545	1570C7	HPP220	1570C7	R00401Z	EZD 38	HDS383
SP-2136	HDF551	1570C9	HPP240	1570C9	HDS399	EZD 40	HDS399
SP-2138	HDF544	1570F7	HPP282	1570F7	HPP411	<b>FRAM</b>	
<b>ASHIKA</b>		1570G3	HPP260	1570G3	HPP412	C9766ECO	HDF547
30-MO-02	HDF544	1570G4	HPP261	1570G4	HPP412	P5138	HDF523
<b>BERU</b>		1570G5	HPP262	1570G5	HPP410	P9635	HDF544
0 100 226 203	HDS383	1570G6	HPP250	1570G6	HPP410	P9677	HDF548
0 100 226 260	HDS377	1570H5	HPP270	1570H5	R00301Z	P9946	HDF907
0 100 226 301	HDS379	1570H6	HPP231	1570H6	HDF927	PS9451	HDF924
0 100 226 344	HDS367	1570H7	HPP232	1570H7	HDF924	<b>GENERAL MOTORS</b>	
0 100 226 351	HDS396	1570H8	HPP233	1570H8	HDF927	4404191	HDF920
0 100 226 373	HDS368	1570H9	HPP234	1570H9	HDF927	4506155	HDS396
0 100 226 379	HDS377	1570J0	HPP230	1570J0	HDF924	9112191	HDF920
0 100 226 384	HDS379	1570J7	HPP201	1570J7	HDF924	9201698	HDS396
0 100 226 385	HDS383	1570J8	HPP202	1570J8	R02201Z	VFF177	HDF523
0 100 226 395	HDS377	1570J9	HPP200	1570J9	HDF939	<b>HENGST</b>	
0 100 226 419	HDS377	1570L0	HPP210	1570L0	HDF924	E72KP D107	HDF547
0 100 226 458	HDS377	1570 L9	9144A180A	1570 L9	HDF924	H140WK	HDF544
0 100 226 473	HDS377	1901 67	HDF939	1901 67	HDF924	H156WK	HDF548
0 100 276 004	HDS399	1901 78	HDF939	1901 78	R00402Z	H206WK	HDF545
GN003	HDS377	1906 96	HDF546	1906 96	R00501Z	H219WK	HDF939
GN018	HDS368	1933 29	HDF546	1933 29	R00502Z	<b>HERTH &amp; BUS</b>	
GN026	HDS396	1980 91	9109-903	1980 91	R00403Z	J1335058	HDF544
GN027	HDS367	1920 ET	R01001A	1920 ET	9307-506A	<b>HYUNDAI</b>	
GN047	HDS399	1920 LP	9042A023A	1920 LP	R00504Z	31390-H1970	HDF924
GN939	HDS383	1920 NH	9424A000A	1920 NH	R0411A001C	31393-H1950	6224050
GN993	HDS379	1933 39	9307-503A	1933 39	HDF929	31394-H1950	9305-117B
<b>BMW</b>		1933 40	9109-927	1933 40	9044A090A	31395-H1950	HDF924
13 32 7 787 476	HDF548	1980 K3	7190-067	1980 K3	R00601D	31395-H1952	HDF924
13 32 7 787 477	HDF551	5960 19	R03801D	5960 19	9044A130A	31396-H1950	9305-116B
13 32 7 787 549	HDF551	5962 4J	HDS399	5962 4J	9044A130B	31500-4X500	9144A032A
13 32 7 791 034	HDF551	96 513 991 80	HDS368	96 513 991 80	R00701D	31500-4X520	9300-063A
13 32 7 794 549	HDF548	96 569 083 80	R0411C001I	96 569 083 80	R0411A001E	31500-4X530	9300-046A
13 32 7 794 590	HDF551	9780 E1	R0411C023D	9780 E1	HDS368	31500-4X540	9300-047A
16 12 6 765 756	HDF550	9780 E2	9109-910	9780 E2	HDS368	31500-4X700	9144A060A
<b>BOSCH</b>		9780 Z8	9109-913	9780 Z8	HDS379	33100-4X700	9044A072A
0 450 906 450	HDF548	ZY34027551	9109-928	ZY34027551	HDS383	33110-4X500	9307-503A
0 450 906 458	HDF549	<b>CLEAN</b>		0 450 906 458	HDS383	33800-4X800	R02901D
0 450 906 459	HDF545	DN1908	HDF544	0 450 906 462	HDF544	33801-4X810	R03701D
0 450 906 462	HDF551	DN1953	HDF924	0 450 906 463	HDF551	OK52A13480	HDF924
0 250 202 022 (DURATERM)	HDF550	<b>CLEAN FILTER</b>		0 250 202 022 (DURATERM)	HDF550	<b>JAGUAR</b>	
0 250 202 029 (DURATERM)	HDS368	MGC1682	HDF907	0 250 202 032 (DURATERM)	HDS368	02C2S30226	R00501Z
0 250 202 128 (DURATERM)	HDS377	MGC1683	HDF939	0 250 202 130 (DURATERM)	HDS367	02C2S40954	9307-506A
0 250 202 131 (DURATERM)	HDS396	MGC1684	HDF915	0 250 202 131 (DURATERM)	HDS383	02C2S42257	9044A090A
0250 312 007	HDS379	<b>CROSLAND</b>		0250 312 007	HDS383	02JDE3111	HDS383
1 457 431 715	HDS403	5017	HDF523	1 457 431 715	HDS403	02JDE4105	9144A050B
1 457 434 281	HDF523	<b>FEBI BILSTEIN</b>		1 457 434 281	HDF523	02JDE4106	R00701D
1 457 434 437	HDF544	21866	HDS396	1 457 434 437	HDF544	02JDE4157	9144A130A
<b>CHAMPION</b>		<b>FIAAM</b>		<b>FORD</b>		02JDE4645	R00504Z
CH170	HDS367	FA5695ECO	HDF547	1148069	HDF547	3S71 9155 BA	HDF924
CH184	HDS368	FP5145	HDF523	1219483	HDF523	4R83 9155 AA	HDF928
CH196	HDS379	FP5660	HDF544	1219485	HDF544	C2C22269	HDF928
CH200	HDS399	FP5666	HDF548	1219488	HDF548	C2S27643	HDF924
CH215	HDS374	FP5750	HDF907	1219497	HDF907	<b>JAPANPARTS</b>	
CH218	HDS377	<b>FORD</b>		1219497	HDF907	FC-M02S	HDF544
CH229	HDS383	1148069	HPP240	1219497	HDF907	JCB	
CH232	HDS396	1219483	HPP241	1219497	HDF907	320/06620	9422A010A
CH240	HDS404	1219485	HPP242	1219497	HDF907	320/06623	R05001D
CH268	HDS406	1219488	HPP243	1219497	HDF907	320/06624	9144A200A
CH602	HDS403	1219497	HPP244	1219497	HDF907	320/09566	B0211A011A
CH701	HDS415	1338833	HPP262	1219497	HDF907	<b>KAGER</b>	
L145	HDF523	1347277	HPP261	1219497	HDF907	11-0261	HDF907
L410/606	HDF907	1347284	HPP260	1219497	HDF907	11-0262	HDF915
L412/606	HDF915	1365150	HPP200	1219497	HDF907	<b>KNECHT</b>	
L429/606	HDF548	1365162	HPP202	1219497	HDF907	06640254	HDF547
L435/606	HDF550	1365164	HPP201	1219497	HDF907	06662476	HDF544
L440/606	HDF544	1S419155AC	HDF924	1219497	HDF907	06683072	HDF920
<b>CHRYSLER</b>		1S419K155AB	7245-091	1219497	HDF907	06683114	HDF907
05174056AA	HDF544	1S4A9F954AV	R0410C031C	1219497	HDF907	06683130	HDF915
		1S4A9F954SP	R0410C005N	1219497	HDF907	06831051	HDF549
		1S4Q9B395BG	9044A016A	1219497	HDF907	06831457	HDF545
				1219497	HDF907	08716110	HDF523

P/N DELPHI		P/N DELPHI	
KC 67	HDF523	MR 577131	HDS403
KL 430	HDF907	MR 597635	HDF544
KL 432	HDF915	<b>MOTAQUIP</b>	
KX 183	HDF920	VFF177	HDF523
KX 183 D	HDF920	VFF420	HDF523
<b>LAND ROVER / RANGE ROVER</b>		<b>MOTORCRAFT</b>	
WJN500025	HDF935	EF6306	HDF523
<b>LAUTRETTE</b>		<b>NGK</b>	
ELG5217	HDF523	CY07	HDS403
ELG5264	HDF924	CY57	HDS403
ELG5273	HDF920	Y-504J	HDS367
<b>LUCAS</b>		Y-504R	HDS367
7176-523	HDF523	Y-515J	HDS368
<b>MAHLE</b>		Y-517J	HDS396
06640262	HDF547	Y-745U	HDS377
06662753	HDF544	Y-925U	HDS377
06683080	HDF920	YE04	HDS399
06683122	HDF907	<b>NIPPARTS</b>	
06683148	HDF915	J133109	HDF523
06831069	HDF549	J1335058	HDF544
06831465	HDF545	<b>NISSAN</b>	
08716128	HDF523	11065-00QAB	HDS396
KC 67	HDF523	16403-59E00	HDF523
KL 432	HDF915	16403-G9900	HDF523
KX 183	HDF920	16405-05E01	HDF523
KX 183 D	HDF920	A640C59EMOSA	HDF523
<b>MANN &amp; HUMMEL</b>		NF2359	HDF523
PU 936/2X	HDF547	<b>NISSAN COM'L/MOTOR IBERICA</b>	
PU 937X	HDF546	1640500QAA	HDF920
WK 521/2	HDF548	<b>PEUGEOT</b>	
WK 521/3	HDF550	1570E1	HPP241
WK 521/4	HDF551	1570E2	HPP242
WK 735/1	HDF545	1570E3	HPP243
WK 820/1	HDF544	1570E4	HPP244
WK 939/2	HDF939	1570F1	HPP280
WK 939/4	HDF915	1570F6	HPP281
WK 939/5	HDF943	1570C6	HPP221
WK 939/6	HDF907	1570C7	HPP220
WK 940/6	HDF523	1570C9	HPP240
WK 1136	HDF549	1570F7	HPP282
<b>MEAT &amp; DORIA</b>		1570G3	HPP260
4328	HDF544	1570G4	HPP261
4497	HDF907	1570G5	HPP262
4591	HDF548	1570G6	HPP250
4769	HDF550	1570H5	HPP270
4770	HDF551	1570H6	HPP231
4778	HDF545	1570H7	HPP232
4805	HDF915	1570H8	HPP233
<b>MECAFILTER</b>		1570H9	HPP234
ELG5294	HDF547	1570J0	HPP230
ELG5296	HDF544	1570J7	HPP201
ELG5297	HDF939	1570J8	HPP202
ELG5298	HDF907	1570J9	HPP200
ELG5299	HDF915	1570L0	HPP210
ELG5300	HDF551	1570 L9	9144A180A
<b>MERCEDES-BENZ</b>		1901 67	HDF939
001 159 28 01	HDS377	1901 78	HDF939
001 159 37 01	HDS377	1906 95	HDF546
001 159 38 01	HDS377	1920 LP	9424A000A
001 159 42 01	HDS377	1920 NH	9307-503A
001 159 48 01	HDS377	1933 39	9109-927
001 159 49 01	HDS377	1933 40	7190-067
646 092 00 01	HDF544	1980 K3	R03801D
646 092 03 01	HDF544	5960 12	HDS399
646 092 05 01	HDF544	5962 3C	HDS367
A 000 077 24 09	7190-066	5962 3E	HDS367
A 005 153 83 28	7190-185	5962 4J	HDS368
A 646 070 02 01	9421A000A	9780 Z8	9109-928
A 646 070 03 95	9144A142A	<b>PSA</b>	
A 646 070 09 87	R04201D	1901 78	HDF939
A 646 070 17 32	9308-627A	1901 81	HDF939
A 646 072 00 04	9109-929	<b>PURELUX</b>	
A 646 074 03 84	9109-930	C496	HDF920
<b>MEYLE</b>		CS439	HDF523
100 201 0012	HDF547	CS499	HDF544
<b>MICRO</b>		FCS477	HDF924
FT3228	HDF523	FCS703	HDF907
<b>MITSUBISHI</b>		FCS716	HDF548
MD 197511	HDS403	<b>PUROLATOR</b>	
MD 344469	HDS403	F57583	HDF523

P/N DELPHI		P/N DELPHI	
QUINTON HAZELL		A6640700133	9300-121A
WF8303	HDF551	A6640700195	9144A090A
WF8308	HDF547	A6640700333	9300-122A
WF8309	HDF544	A6640700433	9300-123A
RENAULT		A6650170121	R02601Z
7700 111 323	HDS368	A6650170221	R04401D
7701 061 576	HDF913	A6650170321	R04601D
7701 061 577	HDF917	A6650700101	9044A051A
7701 061 578	HDF926	A6650700295	9145A010C
7701 061 578	HDF945	A6650700495	9145A020A
7701 062 072	HDF945	A6650700633	9300-077A
7701 062 104	HDF937	A6650700732	9300-081A
7701 062 190	HDF938	A6650700733	9300-078A
7701 063 611	HDF946	A6650700833	9300-079A
7701 063 613	HDF942	A6650701933	9300-124A
7701 206 804	9109-926	A6650702033	9300-125A
7701 206 904	9307-503A	A6650702133	9300-126A
7701 206 905	9109-903	A6650702233	9300-127A
7701 206 906	9109-904	A6650710000	6224030
7701 206 928	HDF920	A6650921001	HDF925
8200 012 099	HDS396	A6650921101	HDF924
8200 026 237	HDF907	A6655400132	R0411C025H
8200 057 345	9144A010D	TATA	
8200 151 379	HDF913	2534 0710 01 06	9044A110A
8200 186 217	HDF915	2797 0714 01 03	9144A080A
8200 186 218	HDF917	2790 0911 01 08	6224030
8200 212 346	R0410C042A	TECAFILTRES	
8200 290 182	HDF945	KC67	HDF523
8200 294 143	HDF944	TECHOCAR	
8200 317 295	HPP110	RN141B	HDF523
8200 317 296	HPP100	RN1632	HDF523
8200 324 300	HPP130	RN226	HDF924
8200 324 485	HPP131	RN232	HDF544
8200 324 487	HPP132	RN235	HDF907
8200 324 488	HPP133	UFI	
8200 324 489	HPP134	24.001.00	HDF545
8200 332 221	HPP101	24.375.00	HDF523
8200 333 022	R02701Z	24.436.00	HDF544
8200 379 933	9144A070A	242.002.00	HDF549
8200 400 416	HDF938	26.002.00	HDF547
8200 400 418	HDF937	26.014.00	HDF547
8200 447 197	HDF944	31.824.00	HDF548
8200 447 199	HDF945	31.838.00	HDF551
8200 450 225	HPP140	31.839.00	HDF550
8200 458 337	HDF941	UNIPART	
8200 458 397	HDF946	C2C2269	HDF928
8200 458 420	HDF943	C2S27643	HDF924
8200 458 424	HDF942	GGP17	HDS383
8200 503 216	HPP150	VAG	
8200 513 163	R0410B034A	057 127 435 C	HDF549
8200 529 459	HPP120	057 127 435 E	HDF549
8200 553 570	R04101D	1K0 127 177	HDF547
8200 561 657	HPP120	1K0 127 177 A	HDF547
8200 567 290	R04001D	1K0 127 400 C	HDF547
8200 707 450	9042A070A	1K0 127 434	HDF547
8200 600 509	HPP101	1K0 127 434 A	HDF547
8200 613 188	HPP150	4F0 127 435	HDF545
8200 613 199	HPP130	4F0 127 435 A	HDF545
8200 613 201	HPP131	VAICO	
8200 613 202	HPP132	10-0208	HDF547
8200 613 204	HPP133	30-8172	HDF544
8200 613 205	HPP134	VOLVO	
8200 614 298	HPP110	30750085	HDF939
8200 614 299	HPP100	WAKO	
8200 676 774	R05101D	LF-28K-2	HDF523
8200 678 701	HPP140		
SAVARA			
9.28.531	HDF523		
SN531	HDF523		
SCT			
ST 498	HDF907		
ST 768	HDF544		
SMART (MMC)			
45 44 7 00 090	HDF544		
SSANG YONG			
A6640170021	R03401D		
A6640170121	R04501D		
A6640170221	R04701D		
A6640700032	9300-119A		
A6640700033	9300-120A		