



Common Rail



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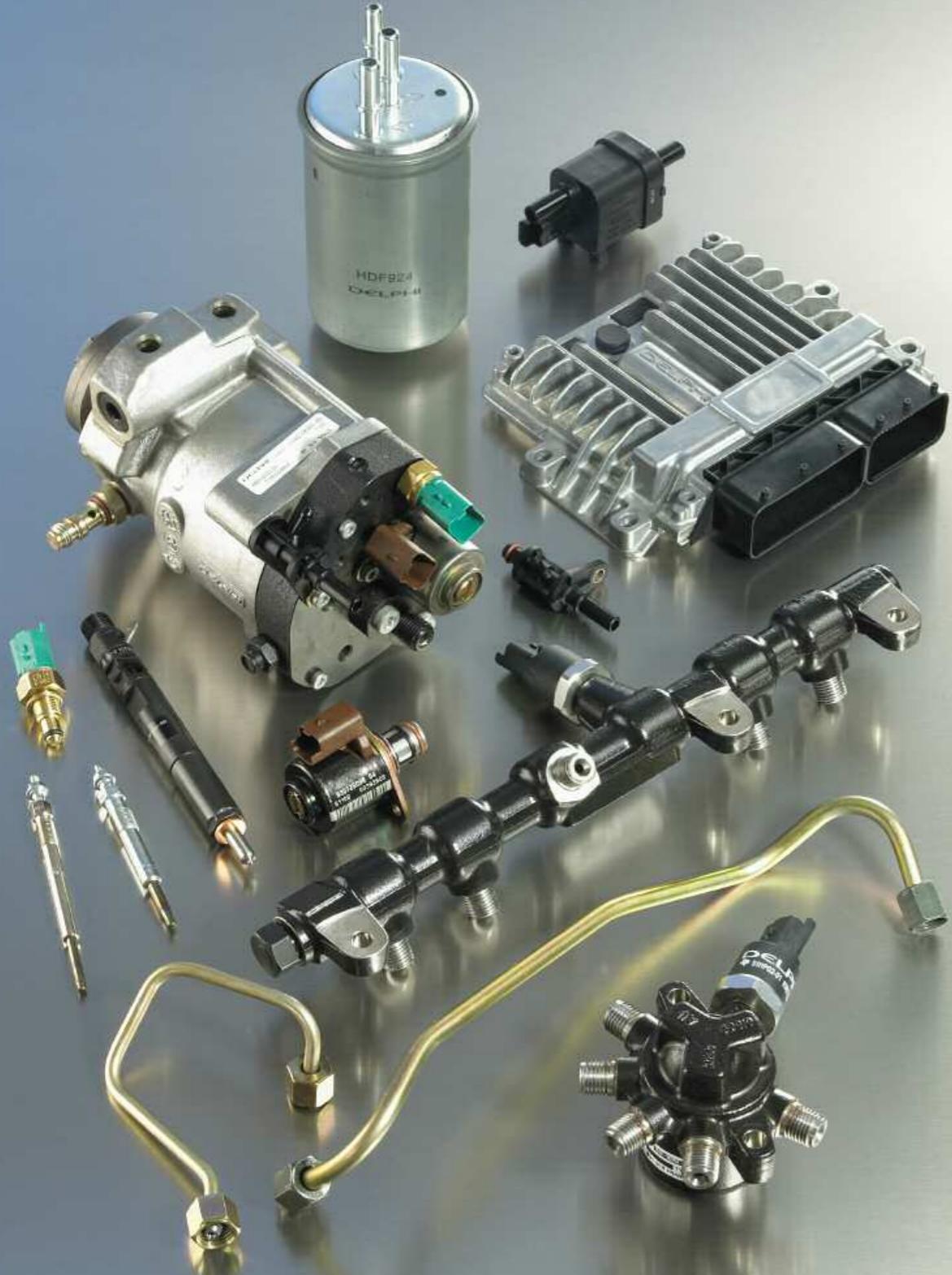
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Introduction to Common Rail

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

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

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

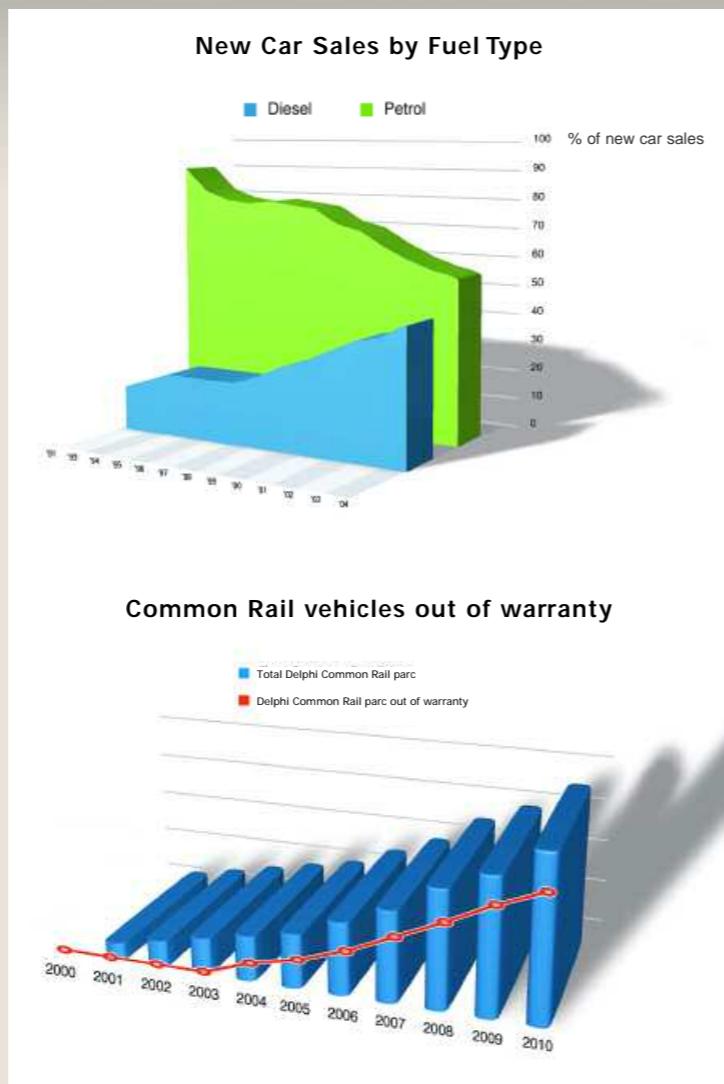
"Common Rail is the automotive technology of the future"

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

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.



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

Totally sealed from the outside world.



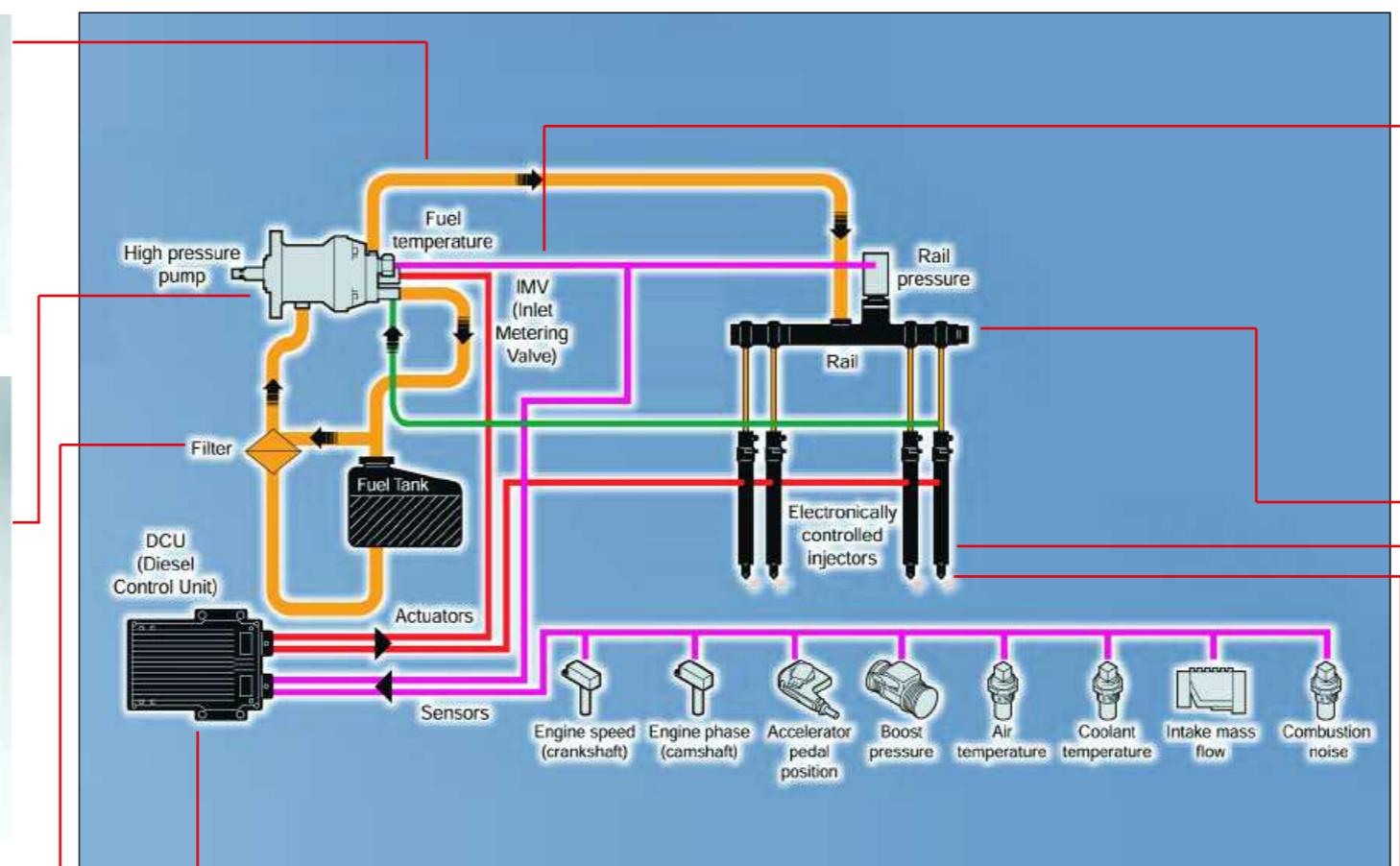
HIGH PRESSURE PUMP

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.



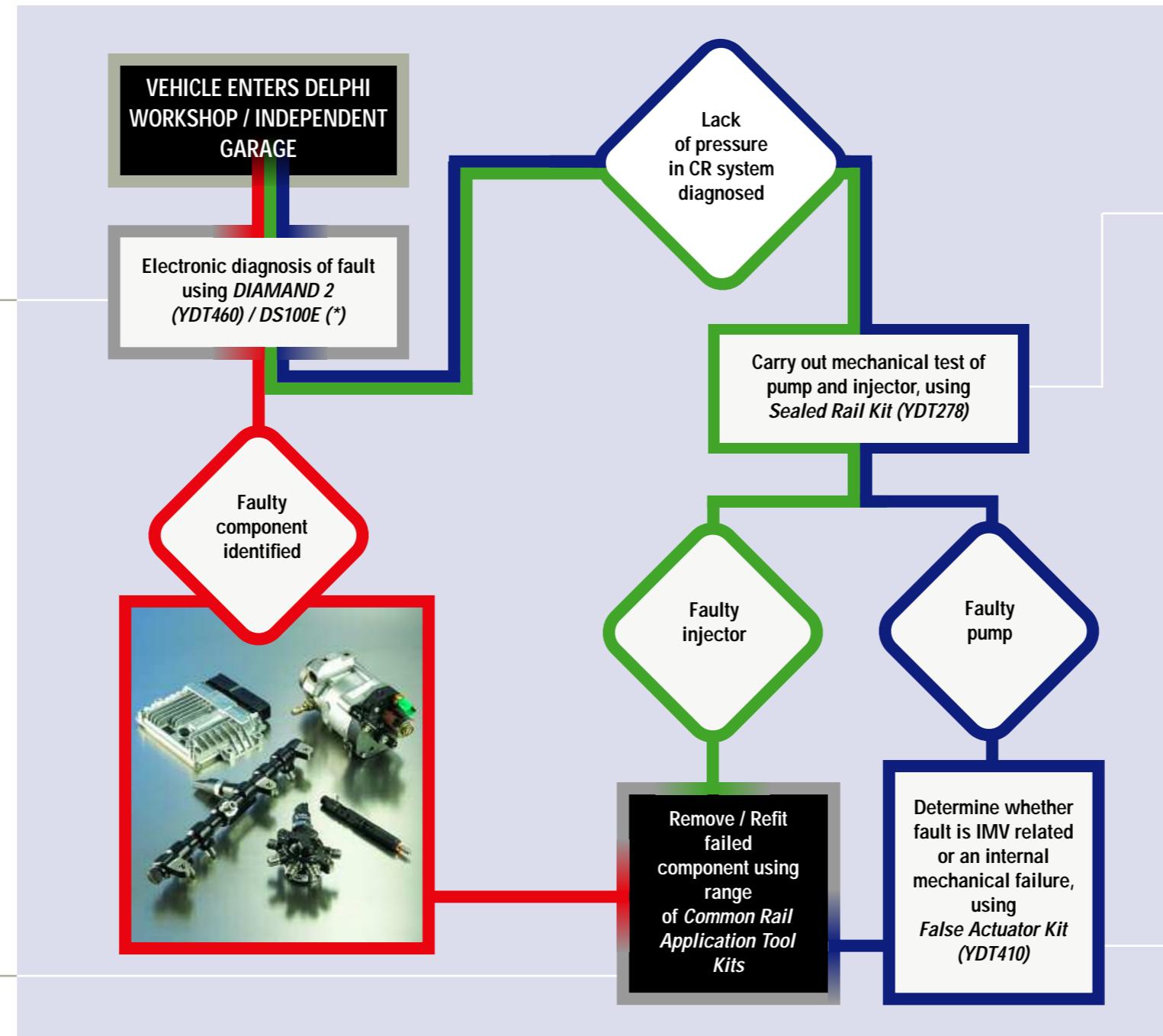
Diagnostic and Test Equipment

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 DIAMOND 2 for the first 2 years after vehicle launch.
DIAMOND 2 is available only to authorised Delphi Diagnostic Centres with the required clean room facilities.



Common Rail Pumps

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

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

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

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

"The pump is the heart of the Common Rail system"

Common Rail Injectors

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

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

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

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





Pumps and Injectors – Applications

Manufacturer	Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Pump	Injector
CITROEN									
C3	1.4 HDi 16v	DV4TED4	92	4	02/02 ➔	Euro III	9042A023A	R01001A	
C3 XTR	1.4 HDi 16v	DV4TED4	92	4	01/04 - 12/05	Euro III	9042A023A	R01001A	
C4	2.0 HDi 16v	DW10BTD4	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	
<i>(Not homologated for Korean market)</i>									
HYUNDAI									
Terracan	2.9 CRDI	KJ	150	4	12/01 ➔	Euro III	9044A072A	R02801D	
Terracan	2.9 CRDI 2WD	HP	150	4	10/03 ➔	Euro III	9044A072A	R02901D	
Terracan	2.9 CRDI 2WD	HP	150	4	01/04 ➔	Euro III	9044A072A	-	
Terracan	2.9 CRDI 4WD	HP	150	4	12/01 ➔	Euro III	9044A072A	R02901D	
Terracan	2.9 CRDI 4WD	HP	150	4	01/04 ➔	Euro III	9044A072A	-	
Terracan	2.9 CRDI 4WD	HP	150	4	01/04 ➔	Euro III	9044A072A	R03701D	
Terracan	2.9 CRDI 4WD	HP	150	4	08/05 ➔	Euro III	9044A072A	R03701D	
JAGUAR									
X-type S	2.0 D	X404	130	4	07/03 - 09/05	Euro III	9044A130A	R00501Z	
X-type S	2.0 D	X404	130	4	10/05 ➔	Euro IV	9044A130A	R00501Z	
X-type S Estate	2.0 D	X404	130	4	02/04 - 09/05	Euro III	9044A130A	R00504Z	
X-type S Estate	2.0 D	X404	130	4	10/05 ➔	Euro IV	9044A130A	R00504Z	
X-type SE	2.0 D	X404	130	4	07/03 - 09/05	Euro III	9044A130A	R00501Z	
X-type SE	2.0 D	X404	130	4	10/05 ➔	Euro IV	9044A130A	R00501Z	
X-type SE Estate	2.0 D	X404	130	4	02/04 - 09/05	Euro III	9044A130A	R00504Z	
X-type SE Estate	2.0 D	X404	130	4	10/05 ➔	Euro IV	9044A130A	R00504Z	
X-type Sport	2.0 D	X404	130	4	07/03 - 09/05	Euro III	9044A130A	R00501Z	
X-type Sport	2.0 D	X404	130	4	10/05 ➔	Euro IV	9044A130A	R00501Z	
X-type Sport Estate	2.0 D	X404	130	4	02/04 - 09/05	Euro III	9044A130A	R00504Z	
X-type Sport Estate	2.0 D	X404	130	4	10/05 ➔	Euro IV	9044A130A	R00504Z	
X-type	2.2 D	-	155	4	10/05 ➔	Euro IV	9044A090A	R00701D	
JCB									
Loadall	4.4 L	-	97	4	03/07 ➔	Tier III	9422A010A	R05001D	
Loading Shovel	4.4 L	-	108	4	03/07 ➔	Tier III	9422A010A	R05001D	
Telescopic Handler	4.4 L	-	120	4	03/07 ➔	Tier III	9422A010A	R05001D	
JMC									
Transit	2.8 L	4JB1TCI	114	4	02/06 ➔	Euro III	9044A120A	R03301D	
KIA									
Bongo	2.9 CRDI	KJ	144	4	10/03 - 01/04	Euro III	9044A072A	R03001D	
Carnival	2.9 CRDI	KJ	144	4	10/01 - 01/04	Euro III	9044A072A	R02801D	
Carnival	2.9 CRDI	KJ	148	4	10/01 ➔	Euro III	9044A072A	R02801D	
Carnival	2.9 CRDI	KJ	185	4	06/06 ➔	Euro IV	9422A000A	R03902D	
Carnival II	2.9 CRDI	KJ	144	4	08/05 ➔	Euro III	9044A072A	R02901D	
Frontier	2.9 CRDI	KJ	144	4	10/03 - 01/04	Euro III	9044A072A	R03001D	
Pregio	2.9 CRDI	KJ	144	4	10/03 - 01/04	Euro III	9044A072A	R03001D	
Sedona	2.9 CRDI	KJ	144	4	10/01 - 01/04	Euro III	9044A072A	R02801D	
Sedona	2.9 CRDI	KJ	185	4	07/06 ➔	Euro IV	9422A000A	R03902D	
Sedona II	2.9 CRDI	KJ	144	4	08/05 ➔	Euro III	9044A072A	R02901D	
MERCEDES-BENZ									
C Class 200	2.2 CDI	OM646	136 with DPF	4	01/07 ➔	Euro IV	9421A000A	R04201D	
C Class 200	2.2 CDI	OM646	136 without DPF	4	01/07 ➔	Euro IV	9421A000A	R04201D	
C Class 220	2.2 CDI	OM646	161 with DPF	4	01/07 ➔	Euro IV	9421A000A	R04201D	
C Class 220	2.2 CDI	OM646	168 with DPF	4	01/07 ➔	Euro IV	9421A000A	R04201D	
C Class 220	2.2 CDI	OM646	168 without DPF	4	01/07 ➔	Euro IV	9421A000A	R04201D	
E Class 200	2.2 CDI	OM646	136 with DPF	4	07/06 ➔	Euro IV	9421A000A	R04201D	
E Class 200	2.2 CDI	OM646	136 without DPF	4	07/06 ➔	Euro IV	9421A000A	R04201D	
E Class 200	2.2 CDI	OM646	161 with DPF	4	07/06 ➔	Euro IV	9421A000A	R04201D	
E Class 220	2.2 CDI	OM646	168 with DPF	4	07/06 ➔	Euro IV	9421A000A	R04201D	
E Class 220	2.2 CDI	OM646	168 without DPF	4	07/06 ➔	Euro IV	9421A000A	R04201D	

Manufacturer	Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Pump	Injector

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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	-



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	-
Pristine	1.9 dCi	F90-760	82	4	09/02 ➔	Euro III	HDF920	HDS342
Pristine	1.9 dCi	F90-760	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	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	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
Trafic	1.							



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)		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)		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)		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



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 CombiSpace	2.0HDi	DW10TD	90	4	02/00 →	-	HPP200	HPP201	HPP202	HPP201	HPP202	-
RENAULT													
	Clio II	1.5 dCi	K9K710	57	4	06/02 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Clio II	1.5 dCi	K9K700	65	4	05/01 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Clio II	1.5 dCi	K9K702	80	4	06/02 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Clio II	1.5 dCi	K9K712	100	4	06/01 - 12/05	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Clio II Campus	1.5 dCi	K9K700	65	4	01/06 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Espace IV	1.9 dCi	F9Q 680	120	4	11/02 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Espace IV	1.9 dCi	F9Q 820	120	4	11/02 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Espace IV	1.9 dCi	F9Q 826	120	4	11/02 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Grand Scenic	1.9 dCi	F9Q	120	4	04/04 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
	Kangoo 4x4	1.9 dCi	F9Q 790	80	4	10/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
	Kangoo 4x4	1.9 dCi	F9Q	84	4	07/03 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Kangoo Rapid 4x4	1.9 dCi	F9Q 790	80	4	10/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
	Kangoo Rapid 4x4	1.9 dCi	F9Q	84	4	07/03 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Kangoo II	1.5 dCi	K9K710	57	4	06/02 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Kangoo II	1.5 dCi	K9K700	65	4	05/01 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Kangoo II	1.5 dCi	K9K704	65	4	05/01 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Kangoo II	1.5 dCi	K9K702	80	4	06/02 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Laguna	1.9 dCi	F9Q	107	4	09/99 - 03/01	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
	Laguna Estate	1.9 dCi	F9Q 718	107	4	09/99 - 03/01	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
	Laguna II	1.9 dCi	F9Q	100	4	10/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Laguna II	1.9 dCi	F9Q	110	4	01/05 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
	Laguna II	1.9 dCi	F9Q 750	120	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Laguna II	1.9 dCi	F9Q	130	4	05/05 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
	Laguna II	2.2 dCi	G9T BVA	140	4	05/05 →	Euro IV	HPP140	HPP131	HPP132	HPP133	HPP134	-
	Laguna II	2.2 dCi	G9T 700	150	4	03/01 →	Euro III	HPP130	HPP131	HPP132	HPP133	HPP134	-
	Laguna Estate II	1.9 dCi	F9Q	100	4	10/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Laguna Estate II	1.9 dCi	F9Q	110	4	01/05 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
	Laguna Estate II	1.9 dCi	F9Q 750	120	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Laguna Estate II	1.9 dCi	F9Q	130	4	05/05 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
	Laguna Estate II	2.2 dCi	G9T	140	4	05/05 →	Euro IV	HPP140	HPP131	HPP132	HPP133	HPP134	-
	Laguna Estate II	2.2 dCi	G9T BVA	140	4	05/05 →	Euro IV	HPP140	HPP131	HPP132	HPP133	HPP134	-
	Master	2.5 dCi	G9U	115	4	01/05 →	Euro IV	HPP150	HPP131	HPP132	HPP133	HPP134	-
	Master II Box	1.9 dCi	F9Q 772	82	4	11/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Master II Bus	1.9 dCi	F9Q 772	82	4	11/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Megane	1.9 dCi	F9Q 732	102	4	02/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
	Megane Classic	1.9 dCi	F9Q 732	102	4	02/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
	Megane Coupe	1.9 dCi	F9Q 732	102	4	02/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
	Megane CC II	1.9 dCi	F9Q	120	4	09/03 - 12/05	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
	Megane Estate	1.9 dCi	F9Q 732	102	4	02/01 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
	Megane Estate II	1.9 dCi	F9Q	120	4	09/03 →	Euro IV	HPP120	HPP101	HPP101	HPP101	HPP101	-
	Megane I	1.5 dCi	K9K722	80	4	10/02 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Megane I	1.5 dCi	K9K724	85	4	05/05 →	Euro IV	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Megane I	1.5 dCi	K9K728	100	4	01/03 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Megane II	1.9 dCi	F9Q 800	120	4	11/02 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Scenic II	1.9 dCi	F9Q	120	4	06/03 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Scenic II	1.5 dCi	K9K722	80	4	01/03 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Scenic II	1.5 dCi	K9K728	100	4	01/03 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Scenic RX4	1.9 dCi	F9Q 740	102	4	11/00 →	Euro III	HPP110	HPP101	HPP101	HPP101	HPP101	-
	Thalia	1.5 dCi	K9K700	65	4	05/01 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Thalia	1.5 dCi	K9K704	65	4	05/01 →	Euro III	HPP010	HPP011	HPP012	HPP013	HPP014	-
	Trafic Box	1.9 dCi	F9Q 762	82	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Trafic Box	1.9 dCi	F9Q 760	101	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Trafic Bus	1.9 dCi	F9Q 762	82	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-
	Trafic Bus	1.9 dCi	F9Q 760	101	4	03/01 →	Euro III	HPP100	HPP101	HPP101	HPP101	HPP101	-

Manufacturer	Model	Engine	Engine code	BHP	Cyl	Date range	Emissions standard	Pump → Rail	Rail → Injector 1	Rail → Injector 2	Rail → Injector 3	Rail → Injector 4	Rail → Injector 5

<tbl_r cells="14" ix="4" maxcspan="1" maxrspan="1" usedcols



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	RO411C001I	9109-910	9305-108C	-	-	-	-	-	-	
C3 XTR	1.4 HDi 16v	DV4TED4	92	4	01/04 - 12/05	Euro III	-	9109-903	-	9306-010A	RO411C001I	9109-910	9305-108C	-	-	-	-	-	-	
C4	2.0 HDi 16v	DW10BTED4 134	134	4	10/06 →	Euro IV	9144A180A	9109-927	9307-503A (1)		RO413C004E	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	RO411A001CS (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	RO410C031C (3) or RO410C005N (4)	9109-912	-	-	7245-091	-	-	-		
Mondeo III (win/Single box)	2.0 TDCi 16v	Puma	115	4	08/02 - 06/03	Euro III	9144A050B	9109-903	9307-506A (2)	9109-911A	RO410C031C (3) or RO410C005N (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	RO411A001CS (6)	9109-912	-	-	-	-	-	-		
Mondeo III (win box)	2.0 TDCi 16v	Puma	130	4	10/01 - 06/03	Euro III	9144A050B	9109-903	9307-506A (2)	9109-911A	RO410C031C (3) or RO410C005N (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	RO411A001CS (6)	9109-912	-	-	-	-	-	-		
Mondeo CD/PF	2.0 TDCi 16v	Puma	130	4	11/05 →	Euro IV	9144A130A	9109-903	9307-506A (2)	9109-911A	RO411A001ES (6)	9109-912	-	-	-	-	-	-		
Mondeo III	2.2 TDCi 16v	Puma	155	4	09/04 →	Euro III	9144A050B	9109-903	9307-506A (2)	9109-911A	RO411A001CS (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	RO411A001DS (6)	9109-912	-	-	-	-	-	-		
Tourneo Connect	1.8 TDCi	Lynx	90	4	09/02 →	Euro III	9144A020D	9109-903	9307-506A (2)	9109-904	RO411A001CS (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	RO411A001CS (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	RO411A001CS (6)	9109-912	-	-	-	-	-	-		
Transit (RWD)	2.4 TDCi	Puma	137	4	03/04 →	Euro III	9144A050B	9109-903	9307-506A (2)	9109-911A	RO411A001CS (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	RO410C046C (DOM) or RO410C047C (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	RO410C048B (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)	-	RO411A001CS (6)	9109-912	-	-	-	-	-	-	-	
X-type	2.0 D	-	130	4	10/05 →	Euro IV	9144A050B	9109-903	9307-506A (2)	-	RO411A001CS (6)	9109-912	-	-	-	-	-	-	-	
X-type	2.2 D	-	155	4	10/05 →	Euro IV	9144A130A	9109-903	9307-506A (2)	-	RO411A001DS (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	RO410C094C (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	RO410C044E (DOM) or RO410C187A (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	RO410C044E (DOM) or RO410C187A (Euro)	9109-902	9305-							



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	R0410C038A (K702) or R0410C077A	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)	-	-	-	-	-	
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	R0410B015B (6)	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																	



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	P/N DELPHI
AC DELCO	CITROEN	1S4Q9B395TG	9044A016B	1361895	R00701D	KC 67	HDF523	MR 577131	HDS403	QUINTON HAZELL
ACD 8070 E	HDF547	1570E1	HPP241	1S4Q9C993AC	HPP401	KL 430	HDF907	MR 597635	WFS303	HDF551
XD 9028 E	HDF544	1570E2	HPP242	1S4Q9C993BC	HPP402	KL 432	HDF915	MOTAQUIP	WF8308	HDF547
ADL		1570E3	HPP243	1S4Q9C993CC	HPP403	KX 183	HDF920	VFF177	WF8309	HDF544
ADN12310	HDF523	1570E4	HPP244	1S4Q9C993DC	HPP404	KX 183 D	HDF920	VFF420	HDF523	RENAULT
ADN12311	HDF523	1570F1	HPP280	1S4Q9D280AD	9144A020D	FORD (MOTORCRAFT)				
ADN12320	HDF523	1570F6	HPP281	1S4Q9F800AB	9109-912	EZD 37	HDS379			
ALCO		1570C6	HPP221	2C109K546AB	R00401Z	EZD 38	HDS383			
SP-1268	HDF545	1570C7	HPP220	2S606M090AA	HDS399	FRAM	HDF547			
SP-2136	HDF551	1570C9	HPP240	2S709C993AB	HPP411	C9766ECO	HDF547			
SP-2138	HDF544	1570F7	HPP282	2S709C993B	HPP412	P5138	HDF523			
ASHIKA		1570G3	HPP260	2S709D280AE	9144A050B	P9635	HDF544	LUCAS		
30-M0-02	HDF544	1570G4	HPP261	2S709D280AE	HPP410	P9677	HDF548	7176-523	HDF523	MAHLE
BERU		1570G5	HPP262	2S709J323AD	R00301Z	P9946	HDF907			
0 100 226 203	HDS383	1570G6	HPP250	2S709K546AJ	HDF927	4404191	HDF920	06683080	HDF920	
0 100 226 260	HDS377	1570H5	HPP270	2T149155BC	HDF927	4506155	HDS396	HDF907	Y-517J	
0 100 226 301	HDS379	1570H6	HPP231	2T149155BD	HDF927	9112191	HDF920	06683122	HDF547	
0 100 226 344	HDS367	1570H7	HPP232	2T149155CA	HDF924	9201698	HDS396	06683148	Y-745U	
0 100 226 351	HDS396	1570H8	HPP233	2T1498072BA	HDF927	R02201Z	VFF177	06831465	Y-925U	
0 100 226 373	HDS368	1570H9	HPP234	2T1498072BC	HDF927	E72K P107	HDF547	08716128	YE04	
0 100 226 379	HDS377	1570J0	HPP230	2T1498072CA	HDF924	HENGST	KC 67	HDF545	NIPPARTS	
0 100 226 384	HDS379	1570J7	HPP201	2T109F593AA	HDF939	HDF547	HDF920	J133109	NISSAN	
0 100 226 385	HDS383	1570J8	HPP202	3M509155BB	HDF939	HDF549	HDF915	J1335058	NISSAN COM'L/MOTOR IBERICA	
0 100 226 395	HDS377	1570J9	HPP200	3M509155CA	HDF939	HDF545	HDF915	11065-000AB	8200 012 099	HDF945
0 100 226 419	HDS377	1570L0	HPP210	3S419B072CA	HDF924	HDF523	HDF915	16403-59E00	8200 026 237	TATA
0 100 226 458	HDS377	1570 L9	9144A180A	3T719155BA	HDF924	HDF523	HDF915	16403-G9900	8200 057 345	2534 0710 01 06
0 100 226 473	HDS377	1901 67	HDF939	3T709K546AB	R00402Z	HDF547	HDF915	16405-05E01	8200 091 009	9144A080A
0 100 276 004	HDS399	1901 78	HDF939	3T709K546BB	HDF939	HDF547	HDF915	A660203A	8200 120 904	2797 0714 01 03
GN003	HDS377	1906 96	HDF546	3T709K546AB	R00502Z	HERTH & BUS	HDF546	HDF920	8200 290 182	6224030
GN018	HDS368	1933 29	9109-903	4C109K546AB	R00403Z	J1335058	HDF544	1640500AA	8200 294 143	9144A110A
GN026	HDS396	1980 91	R01001A	4S409D995AA	9307-506A	HYUNDAI	WK 521/2	HDF920	8200 317 295	HDF944
GN027	HDS367	1920 ET	9042A023A	4S709K546BD	R00504Z	31390-H1970	HDF548	16403-59E00	8200 317 296	9144A070A
GN047	HDS399	1920 LP	9424A000A	4U7112A650EA	R0411A001C	31393-H1950	HDF550	HDF920	8200 324 300	RN226
GN939	HDS383	1920 NH	9307-503A	5M509176AA	HDF929	9305-117B	HDF551	16403-G9900	8200 324 487	HDF924
GN993	HDS379	1933 39	9109-927	5S709B395AA	9044A090A	31394-H1950	HDF544	16405-05E01	8200 324 488	9144A120A
BMW		1933 40	7190-067	5S709K546AB	R00601D	31395-H1952	HDF545	A6602100	8200 324 489	24.001.00
13 32 7 787 476	HDF548	1980 K3	R03801D	6S709B395AA	9044A130A	31396-H1950	HDF545	HDF920	8200 333 022	HDF545
13 32 7 787 477	HDF551	5960 19	HDS399	6S709B395TA	9044A130B	31500-4X500	HDF546	16403-59E00	8200 333 022	RN1632
13 32 7 787 549	HDF551	5962 4J	HDS368	6S709K546AA	R00701D	31500-4X520	HDF547	HDF920	8200 337 933	HDF548
13 32 7 791 034	HDF551	96 513 991 80	R0411C001	6U7112A650FA	R0411A001E	31500-4X530	HDF548	16403-G9900	8200 400 416	RN226
13 32 7 794 549	HDF548	96 569 083 80	R0411C023D	9VW6M090AA	HDS368	9300-046A	HDF549	HDF920	8200 400 418	HDF544
13 32 7 794 590	HDF551	9780 E1	9109-910	9VW6M090AB	HDS368	31500-4X700	HDF549	HDF920	8200 400 418	RN232
16 12 6 765 756	HDF550	9780 E2	9109-913	X54U6M090AB	HDS379	31100-4X700	HDF549	HDF920	8200 447 199	HDF544
BOSCH	CLEAN	9780 Z8	9109-928	X7U6M090AA	HDS383	31110-4X500	HDF549	HDF920	8200 447 199	UFI
0 450 906 450	HDF548	ZY34027551	R0411C028B	X7U6M090BA	HDS383	33800-4X800	HDF549	HDF920	8200 447 199	24.001.00
0 450 906 458	HDF549			X7U6M090BA	HDF924	33801-4X810	HDF549	HDF920	8200 447 199	HDF545
0 450 906 462	HDF551	DN1908	HDF544	OK52A13480	HDF544	405047A	HDF549	HDF920	8200 447 199	HDF545
0 450 906 463	HDF550	DN1953	HDF924	1037204	HDS368	HDF549	HDF920	HDF920	8200 447 199	HDF545
CLEAN FILTER				1096527	HDS379	JAGUAR	HDF549	HDF920	8200 447 199	HDF545
0 250 202 022 (DURATERM)	HDS368	MGC1682	HDF907	1131968	HPP404	02C2S30226	R00501Z	HDF549	8200 447 199	HDF545
0 250 202 029 (DURATERM)	HDS377	MGC1683	HDF939	1131969	HPP403	02C2S42257	9307-506A	HDF549	8200 447 199	HDF545
0 250 202 032 (DURATERM)	HDS367	MGC1684	HDF915	1131992	HDF900	02JD61164	HDS383	HDF549	8200 447 199	HDF545
0 250 202 128 (DURATERM)	HDS396	CROSLAND		1132913	HPP411	02JDE3111	9144A050B	HDF549	8200 447 199	HDF545
0 250 202 130 (DURATERM)	HDS383	5017	HDF523	1137026	HDF924	02JDE4105	R00701D	HDF549	8200 447 199	HDF545
0 250 202 131 (DURATERM)	HDS379	FEBI BILSTEIN		1142601	HDF927	02JDE4106	9144A130A	HDF551	8200 447 199	HDF545
0250 312 007	HDS403	21866	HDS396	1148105	HDF927	02JDE4157	R00504Z	HDF551	8200 447 199	HDF545
1 457 431 715	HDF547	FIAAM		1151056	HPP410	02JDE4645	9044A130A	HDF551	8200 447 199	HDF545
1 457 434 281	HDF523	FA5695EC0	HDF547	1204234	9109-912	3571 9155 BA	HDF924	HDF551	8200 447 19	



Notes

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