

DENSO

Spark Plugs

DENSO Newsletter

March 2007

In this issue:

- OE news
- Spark plug availability FSI engine applications
- Introduction of new iridium spark plug K16PSR-B8
- New Iridium spark plug
- Iridium catalogue 07/08
- Change in Iridium recommendation
- Changed recommendation for Peugeot 106
- Downloadable calendar
- New applications

DENSO fitted OE in 6 new car models

3 different car manufacturers have chosen DENSO as OE supplier for spark plugs: Nissan, Smart and Toyota. Of the six different car engines 5 are fitted with DENSO Iridium spark plugs.

Nissan's Qashqai 2.0 is fitted with the latest spark plug technique: FXE20HR11. This is a Super Ignition Plug (SIP) and has an ultra-fine centre and ground electrode made from DENSO's patented Iridium alloy. This long life plug gives the engine outstanding performance.

As Toyota's Auris and Corolla are fitted with the same 1.6i 16v engine they make both use of the **new** long life Iridium plug, the **SC20HR11**. The plug has a 0,7 mm Iridium center electrode and a platinum tipped ground electrode.

Also the new Toyota Camry 2.4i 16v is fitted with an Iridium long life plug, the SK20R11, whereas the 3.5i V6 24v version of the Camry uses our latest technology: the FK20HR11 SIP plug. The Toyota Camry will only be available in Russia. The new Smart ForTwo has a 0,7L engine fitted with DENSO's XU22HDR9. The above mentioned spark plugs will be available in April.

MAKE	MODEL	LITRE	TYPE	kW	MOTOR	YEAR	PLUG	GAP
NISSAN	QASHQAI	2.0	i 16V	104	MR20DE	02/'07->	FXE20HR11	1,1
SMART	FORTWO	0.7				04.07	XU22HDR9	0,9
TOYOTA	AURIS	1,6	i 16V		1ZR-FE	10.06-	SC20HR11	1,1
TOYOTA	CAMRY (6)	2.4	i 16V (ACV40)	118	2AZ-FE (VVT-i)	01/'06->	SK20R11	1,1
TOYOTA	CAMRY (6)	3.5	i V-6 24V (GSV40)	200	2GR-FE (VVT-i)	01/'06->	FK20HR11	1,1
TOYOTA	COROLLA (10) SED	1,6	i 16V		1ZR-FE	11.06-	SC20HR11	1,1



Nissan Qashqai



Smart ForTwo



Toyota Corolla



Toyota Auris



Toyota Camry



GLOW PLUGS | SPARK PLUGS | STARTERS & ALTERNATORS | A/C COMPONENTS | DIESEL INJECTION PARTS | WIPER BLADES

DENSO EUROPE B.V.
 Hogeweysealaan 165
 1382 JL WEESP
 The Netherlands
 Mailing address:
 P.O. Box 89
 1380 AB WEESP
 The Netherlands
 Tel. +31 (0)294 - 493 493
 Fax +31 (0)294 - 417 122

Spark plug available for FSI engines

Good news for car owners with a FSI engine: from now on DENSO can offer a spark plug for the 1.4 and 1.6 FSI engines from the Volkswagen Group. This means that the models of Seat, Skoda and Volkswagen with a 1.4 FSI and 1.6 FSI can make use of DENSO's K20PBR-S10.

The K20PBR-S10 has three ground electrodes which will give these FSI engines an outstanding performance.

The K20PBR-S10 is available in a 4 and 10 pack.

Cross reference

NGK ZFR6S-Q → **DENSO K20PBR-S10**

Bosch FGR6HQE0 → **DENSO K20PBR-S10**



K20PBR-S10

MODEL	LITRE	TYPE	kW	MOTOR	NOTE	YEAR	PLUG	GAP	PLATINUM	IRIDIUM	TOUGH
SEAT											
LEON (1P1)	1.4	i 16V	55	AHW, AKQ, APE, AXP		09/'05->	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
LEON (1P1)	1.6	i	75	BSE, BSF		09/'05->	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
LEON (1P1)	1.6	i 16V	77	ATN, AZD		09/'05->	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
SKODA											
OCTAVIA (1Z)	1.6	FSI	85	BLF	Direct injection	06/'04->	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
VW											
BORA (1J)	1.6	FSI	81	BAD	Direct injection	08/'01-05/'05	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
GOLF IV	1.6	FSI	81	BAD	Direct injection	08/'01-05/'05	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
GOLF V	1.4	FSI	66	BKG, BLN	Direct injection	10/'03->	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
GOLF V	1.6	FSI	85	BAG, BLP, BLF, BLN	Direct injection	10/'03->	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
JETTA (III) (1K2)	1.6	i 16V	75	BSE, BSF		09/'05->	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
JETTA (III) (1K2)	1.6	FSI	85	BLF	Direct injection	09/'05->	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
LUPO	1.4	FSI	77	ARR	Direct injection	09/'00-11/'03	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
PASSAT (6) (3C)	1.6	FSI	85	BLF	Direct injection	03/'05->	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
POLO (V) (9N)	1.4	FSI	63	AXU	Direct injection	09/'01-05/'05	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20
TOURAN	1.6	FSI	85	BAG, BLF, BLP, BLN	Direct injection	02/'03->	K20PBR-S10	1,0	K20PR-ZU11	IK20	VK20

New Iridium spark plug for 3 new models

Denso has developed a new spark plug for the new Mitsubishi Outlander. This car will be launched in mid 2007 and is equipped with a 2.4 liter engine. The **new spark plug type K16PSR-B8** is developed for this engine and will be available for the after market. Currently we have them on stock. This is an Iridium spark plug and will be available in a 10 pack. Dimensions: 14 mm x 19 mm reach. It features a 0,7mm Iridium center electrode and a nickel ground electrode.

As the same platform and engines will be shared with the PSA group, this plug will also fit the new Peugeot 4007 and Citroën C-Crosser. These two models will be introduced shortly after the Outlander launch.



Mitsubishi Outlander



Peugeot 4007

Introduction of new spark plug

As mentioned in the article on the front page DENSO has developed a new spark plug. This spark plug will fit the new Toyota Auris and Corolla both for their 1.6i 16v engine. This new spark plug type, the SC20HR11, is a long life Iridium spark plug. This plug has a 0,7 mm Iridium center electrode and a platinum tipped ground electrode.

By installing the Auris and the Corolla with an Iridium long life spark plug, Toyota confirms the trend of car manufactures to choose more and more for Iridium long life spark plug.



Citroën C-Crosser

Iridium catalogue 2007 / 2008

Denso Japan has made a new English version of their Iridium catalogue. This catalogue contains a lot of valuable and handy information about our different iridium spark plug types: Iridium Power, Iridium Tough and Iridium Racing. Application information consists of Asian automotive and motorcycle models. There is also a European section. You can order this catalogue by using part number 10018B-004, but please note that we have limited stock. You can of course check our website for spark plug related information: <http://www.globaldenso.com/PLUG/> Here you can also download the first section of the catalogue, page by page, in PDF files: <http://www.globaldenso.com/PLUG/catalog/asia/index.html>



Change in Iridium recommendation

In our newsletter of 2006 we have informed you about the replacement of some Iridium OE long life types with Iridium Tough types. The reason of that was to offer you better priced plugs and a more consolidated range. However due to demand these Iridium OE long life will still be available. It concerns the following Iridium long life and Iridium Tough types:

OE Iridium long life (Ø 0,4 mm)
VK16PRZ11
VK20PRZ11
VK22PRZ11
VKJ20RZ-M11
SVK20RZ8
VX22BC


OE Iridium long life (Ø 0,7 / 0,55 mm)
SK16HR11
SK20HR11
S22PR-A7
SXU22PR-A9

Changed recommendation for the Peugeot 206

To offer your customers a more competitive spark plug type we have changed the recommendation for the Peugeot 206 1,1i L (TU 1JP (HFZ)) and 1,4i L (XU 9.JAZ (DKZ)) engines. Instead of the K20TXR the K20PR-U can be used. This spark plug equals the type fitted OE in these engines. The K20PR-U can be offered cheaper than the K20TXR.

The K20PR-U has, unlikely the K20TXR with it's 2 ground electrodes, 1 ground electrode. It also offers a U-groove. For an upgrade for these engines we recommend the platinum type K20PR-ZU11, the Iridium Power IK20 or Iridium Tough VK20Y.

Downloadable calendar

DENSO(JAPAN) had introduced last December a new Iridium Power calendar. Now this catalogue is also available as PDF  at <http://www.globaldenso.com/PLUG/calender/index.html>

The calendar contains photographs of our sponsorships in various disciplines of motor sport: Toyota Formula one, Subaru WRC, Toyota Sard Supra GT, LCR motoGP, Aprilia WGP250 etc.. Although we have past two months of 2007, we hope you can still use it, whether it is on a computer's desktop or as print outs.



New applications

At DENSO we are continuously monitoring the market for new car applications. In below overview you can see new applications for which DENSO has spark plugs available. Note that they have not been included in the latest printed catalogue.

MODEL	LITRE	TYPE	KW	MOTOR	NOTE	YEAR	PLUG	GAP	PLATINUM	IRIDIUM	TOUGH
ALFA ROMEO											
159	1.9	JTS	118	939.A6.000	Direct injection	09/05->	IK16	1.1		IK16	VK16
159	2.2	JTS	136	939.A5.000	Direct injection	09/05->	IK16	1.1		IK16	VK16
BRERA	2.2	JTS	136	939.A5.000	Direct injection	01/06->	IK16	1.1		IK16	VK16
AUDI											
A 2 (8Z0)	1.6	FSI	81	BAD	Direct injection	05/02->	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20
A 3 (8P1)	1.6	FSI	85	BAG, BLF, BLP	Direct injection	08/03-12/04	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20
BMW											
540 i	4.0	E 60 / 61	225	N 62 B40A		07/05->	VK20	1.1		IK20	VK20
650 i	4.8	E 63 / 64	270	N 62 B40		07/05->	VK20	1.1		IK20	VK20
X 3	2.0	E 83	110	N 46 B20		07/05->	VK20	1.1		IK20	VK20
Z 4 Si	2.5	E 85	160	N 52 B25A		01/06->	VKH20	1.1		IKH20	VKH20
Z 4 Si	3.0	E 85	195	N 52 B30A		01/06->	VKH20	1.1		IKH20	VKH20
CADILLAC											
SRX	4.6	i V-8	239	Northstar 4,6 V-8 VVT		07/04->	T16EPR-U15	1.5		IT16	VT16
XLR	4.6	i V-8 VVT	240	Northstar 4,6 V-8 VVT		03/04->	T16EPR-U15	1.5		IT16	VT16
CHEVROLET (DEAWOO)											
REXTON	3.2	i V-6	162			04/02->	Q16PR-U	0.9	K16PR-ZU11	IK16	VK16
AVEO	1.2	i	53			03/06->	W16EXR-U11	1.1	W16EXR-ZU	IW16	VW16
AVEO	1.4	i	69			03/06->	K20PR-U11	1.1	K20PR-ZU11	IK20	VK20
CHRYSLER (EUROPE)											
300 C	2.7	i V-6 24V	142	2.7FX		07/04->	ITL16	1.3		ITL16	
CITROËN											
C 2	1.4	i 16V	66	ET3 J4 (KFU)		06/06->	XE20HR-U9	0.9	-	-	-
C 2	1.6	i 16V VTS	90	NFS (TU5JP4S)		10/04->	K16HPR-U11	0.9		IKH16	VKH16
C 4 Picasso	2.0	i 16V	103	EW10A		10/06->	K16HPR-U11	0.9		IKH16	VKH16
C 6	3.0	i V-6 24V	155	XVF (ES 9 A)	(26.5mm thread)	09/05->	VKH16	1.0	-	IKH16	VKH16
DAIHATSU											
MATERIA	1.3	i 16V	67	K3-VE		12/06->	SXU22PR9	0.9	-	IXU22	VXU22
MATERIA	1.5	i 16V	76	3SZ-VE		12/06->	SXU22PR9	0.9	-	IXU22	VXU22
HONDA											
CIVIC (8) (FK1/2)	1.4	i 8V	61	L13 A7		01/06->	SK20PR-L11	1.1		IK20	VK20
CIVIC (8) (FK1/2)	1.8	i 16V	103	R18 A2		01/06->	SKJ20DR-M11S	1.1		IK20G	VK20G
JAZZ	1.2	i 8V	57	L 12 A1		03/02->	K20PR-U11	1.1	K20PR-ZU11	IK20	VK20
JAZZ	1.4	i 8V	61	L 13 A1		03/02->	K20PR-U11	1.1	K20PR-ZU11	IK20	VK20
HUMMER											
H 3	3.5	i 20V	160-170	Vortec 3500	5-Cyl	04/05->	PT16VR13	1.3	PT16VR13	ITV16	
HYUNDAI											
ATOS	1.1	i 12V	44			06/03->	K16PR-U11	1.1	K16PR-ZU11	IK16	VK16
TUCSON (JM)	2.0	i 16V	104			08/04->	K16PR-U11	1.1	K16PR-ZU11	IK16	VK16
TUCSON (JM)	2.7	i V-6	129			08/04->	K16PR-U11	1.1	K16PR-ZU11	IK16	VK16
JMC											
LANDWIND	2.0	JX624B-C / JX6474B-E	84	4G64S4M (Mitsubishi)		06/05->	W16EPR-U	0.8		IW16	VW16
LANDWIND	2.4	JX624B-C / JX6474B-E	92	4G64S4M (Mitsubishi)		06/05->	W16EPR-U	0.8		IW16	VW16
MERCEDES-BENZ											
CLS 500	5.0	(219)	225	M 113.976	Twin spark	10/04->	PK16PR-L11	1.0	PK16PR11		VK16
CLS 55 AMG	5.5	(219)	350	M 113.990	Twin spark	01/05->	VKH20Y	0.8			VKH20Y
MG											
EXPRESS	1.4	i 16V		K-series		02/03->	PK20PR-L11	1.1	PK20PR-L11		VK20
EXPRESS	1.8	i 16V		K-series		02/03->	PK20PR-L11	1.1	PK20PR-L11		VK20
MITSUBISHI											
COLT (6) CZC	1.5	i 16V	80	4A91 (DOHC) (Mpi VVT)	Mivec	05/06->	K20HR-U11	1.0		IKH20	VKH20
COLT (6) CZC	1.5	i 16V Turbo	110	4G15 (DOHC) (Mpi, TC, IC)	Turbo	05/06->	VKH20Y	0.8			VKH20Y
PAJERO (BK)	3.8	i V-6 24V	184	6G 75	(V87W/V97W)	11/06->	SK20PR-A8	0.8		IK20	VK20Y
NISSAN											
MICRA C+C	1.6	i 16V	81	HR 16 DE		08/05->	FXE20HR11	1.1	-	-	-
NOTE	1.6	i 16V	81	HR 16 DE		03/06->	FXE20HR11	1.1	-	-	-
PATHFINDER (R51M)	4.0	i V-6	198	VQ 40 DE		09/05->	VKH16	1.1		IKH16	VKH16
QASHQAI	1.6	i 16V	84	HR 16 DE		02/07->	FXE20HR11	1.1	-	-	-
QASHQAI	2.0	i 16V	104	MR 20 DE		02/07->	FXE20HR11	1.1	-	-	-
SERENA	2.0	i 16V		MR 20 DE	(J)	05/05->	ZXE20HR13	1.3	-	-	-
OPEL											
MERIVA	1.4	i 16V Twinport	66	Z 14 XEP		07/04->	KJ16CR-L11	1.1	K16PR-ZU11	IK16	VK16
SIGNUM	1.8	i 16V	90	Z 18 XE Ecotec		05/03->	K20PBR-S10	1.0	K16PR-ZU11	IK16	VK16
SIGNUM	2.0	i 16V Turbo	129	Z 20 NET Turbo Ecotec		05/03->	PK20PR11	1.0	K20PR-ZU11	IK20	VK20
SIGNUM	2.2	i 16V Direct	114	Z 22 YH Direct Ecotec		05/03->	K20PBR-S10	1.0	K16PR-ZU11	IK16	VK16
SIGNUM	2.8	i V-6 24V Turbo	169	Ecotec		09/05->	VKH20	1.1		IKH20	VKH20
SIGNUM	3.2	i V-6 24V Turbo	155	Z 32 SE Ecotec		05/03->	K20PBR-S10	1.0	K16PR-ZU11	IK16	VK16
ZAFIRA	1.6	i 16V CNG	71	Z 16 YNG		09/01->	PK20PR-P8	0.8	PK20PR-P8		VK20Y
ZAFIRA	2.0	i 16V Turbo OPC	177	Turbo Ecotec		01/06->	PK20PR11	1.1	PK20PR11		VK20
PEUGEOT											
207	1.6	i 16V	85	EP6 (Direct injection)	(BMW)	12/06->	K16HPR-U11	0.9		IKH16	VKH16
307	2.0	i 16V	103	EW10A (RFJ)		03/05->	K20HR-U11	0.9		IKH20	VKH20
PORSCHE											
911 (997)	3.6	Carrera / 4	239	M 96.05		07/04->	K22PBR-S	0.8	K22PR-ZU	IK22	VK22
911 (997)	3.8	Carrera / 4	261	M 97.01		07/04->	K22PBR-S	0.8	K22PR-ZU	IK22	VK22
BOXTER	2.7		176			11/04->	K20PBR-S10	0.8	K20PR-ZU11	IK20	VK20Y
BOXTER	3.2	S	206			11/04->	K20PBR-S10	0.8	K20PR-ZU11	IK20	VK20Y
CAYMAN	2.7		180			07/06->	K22PBR-S	0.8	K22PR-ZU	IK22	VK22
CAYMAN	3.4		217			11/05->	K22PBR-S	0.8	K22PR-ZU	IK22	VK22
PROTON											
GEN-2	1.6	i 16V	82	S4PH4(DOHC 16V)		06/04->	T20EPR-U	1.1		IT20	VT20
RENAULT											
CLIO (2)	1.0	i 16V	50	D4D - 700		06/01->	XE20HR-U9	0.9	-	-	-
CLIO (2)	2.0	i 16V Sport	132			01/04->	PK20PR11	1.0	PK20PR-P11		VK20
MODUS	1.2	i 16V	48	D4F		05/05->	XE20HR-U9	0.9	-	-	-
TWINGO	1.0	i 16V	50	D4D - 712		'01->	XE20HR-U9	0.9	-	-	-
TWINGO	1.2	i 16V	44	D4F 708		08/04->	K16PR-ZU11	0.9	K16PR-ZU11	IK16	VK16

Continued on next page ->

Continued from previous page

MODEL	LITRE	TYPE	KW	MOTOR	NOTE	YEAR	PLUG	GAP	PLATINUM	IRIDIUM	TOUGH
ROLLS-ROYCE											
PHANTOM	6.75	i V-12 48V	338			05/03->	K20TXR	0.9	K20PR-ZU11	IK20	VK20Y
SILVER SERAPH 5.4	5.4	i V-12 24V	240	BMW M73 B54	Cat	03/98->	KJ14CR-L11	0.9	-		
ROVER											
25 (RF)	1.2	i 16V	55	11 K4F		01/04->	PK20PR-P8	0.8	PK20PR-P8		VK20Y
STREETWISE	1.4	i 16V	62	14 K4M		08/03->	PK20PR-L11	1.1	PK20PR-L11		VK20
STREETWISE	1.4	i 16V	76	14 K4F		08/03->	PK20PR-L11	1.1	PK20PR-L11		VK20
STREETWISE	1.6	i 16V	81			01/04->	PK20PR-L11	1.1	PK20PR-L11		VK20
STREETWISE	1.8	i 16V	87			01/04->	PK20PR-L11	1.1	PK20PR-L11		VK20
SAAB											
9-5	2.3	i 16V Turbo	184	B 235R	Turbo	09/01->	PK20PR-P11	1.0	PK20PR-P11		VK20
9-5	2.3	i 16V Turbo	162	B 235L	Turbo	07/03->	Q20PR-U11	1.0	Q20PR-ZU11	IQ20	VQ20
9-5	2.3	i 16V Turbo	191	B 235R	Turbo	11/05->	PK22PR-L11S	1.1	PK22PR-L11S		VK22
SEAT											
LEON (1M1)	1.8	i 20V Turbo Cupra	165	BAM		07/03->	PK20PR-P8	0.8	PK20PR-P8		VK20Y
LEON (1P1)	2.0	i 16V FSI Turbo	136	BWA	Turbo	09/05->	PK20PR-P8	0.8	PK20PR-P8	SVK20R-Z8	VK20Y
SKODA											
OCTAVIA (1Z)	1.6	FSI	85	BLF	Direct injection	06/04->	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20
SMART											
FORFOUR	1.1		47			01/06->	K20HR-U11	1.1		IKH20	VKH20
SUBARU											
OUTBACK	2.5	i 16V	121	EJ 25		11/03->	PK16R11	1.1		IK20	VK20
OUTBACK	3.0	i 24V	154	EZ 30		11/03->	VKH20Y	0.8		IKH20	VKH20
SUZUKI											
SX4	1.5	i 16V	73	M15A		04/06->	SVK20RZ11	1.1	-	-	VK20
SX4	1.6	i 16V	79	M18A		04/06->	SVK20RZ11	1.1	-	-	VK20
TOYOTA											
AURIS	1.4	i 16V	71	4ZZ-FE		10/06->	K16R-U11	1.1	K16PR-ZU11	IK16	VK16
AURIS	1.6	i 16V	91	1ZR-FE		10/06->	SC20HR11	1.1			
CAMRY (6)	2.4	i 16V (ACV40)	118	2AZ-FE (VVT-i)		01/06->	SK20R11	1.1	-	SK20R11	VK20
CAMRY (6)	3.5	i V-6 24V (GSV40)	200	2GR-FE (VVT-i)		01/06->	FK20HR11	1.1			
COROLLA SDN (10)	1.4	i 16V	71	4ZZ-FE		11/06->	K16R-U11	1.1	K16PR-ZU11	IK16	VK16
COROLLA SDN (10)	1.6	i 16V	91	1ZR-FE		11/06->	SC20HR11	1.1			
PREVIA (3)	2.4	i 16V (ACR50)	118	2AZ-FE (VVT-i)		01/06->	SK20R11	1.1	-	SK20R11	VK20
PREVIA (3)	3.5	i V-6 24V (GSR50)	200	2GR-FE (VVT-i)		01/06->	FK20HR11	1.1			
VAUXHALL											
CARLTON	2.4	i	92	C 24 NE		09/88-03/94	W20FPR-U	0.7		IWF20	
CARLTON	2.6	i	92	C 26 NE		09/90-03/94	W20FPR-U	0.7		IWF20	
CARLTON	3.6	i 24V	277	C 36 CET		08/90-09/92	Q20PR-U	0.8	K20PR-ZU11	IK20	VK20Y
CAVALIER Mk III	2.5	i V-6	125	C 25 XE		02/93-11/95	K20TXR	0.8	K20PR-ZU11	IK20	VK20Y
COMBO	1.4	i 16V	66	Z 14 XEP		01/04->	KJ16CR-L11	0.9	K16PR-ZU11	IK16	VK16
COMBO	1.6	i	64	Z 16 SE		10/01->	K20TXR	1.0	K16PR-ZU11	IK16	VK16
COMBO (71)	1.2		33	C 12 NZ / X 12 SZ		07/94-10/01	W16EPR-U	0.7	W20EPR-ZU	IW20	VW20
COMBO (71)	1.4		44	C 14 NZ / X 14 SZ		07/94-10/01	W16EPR-U	0.7	W20EPR-ZU	IW20	VW20
COMBO (71)	1.4		60	C 14 SE		07/94-10/01	W16EPR-U	0.7	W20EPR-ZU	IW20	VW20
CORSA (2)	1.8	i 16V	92	Z 18 XE		09/00->	K20TXR	0.9	K20PR-ZU11	IK20	VK20Y
MERIVA	1.4	i 16V Twinport	66	Z 14 XEP		07/04->	KJ16CR-L11	1.1	K16PR-ZU11	IK16	VK16
SIGNUM	1.8	i 16V	90	Z 18 XE Ecotec		05/03->	K20PBR-S10	1.0	K16PR-ZU11	IK16	VK16
SIGNUM	2.0	i 16V Turbo	129	Z 20 NET Turbo Ecotec		05/03->	PK20PR11	1.0	K20PR-ZU11	IK20	VK20
SIGNUM	2.2	i 16V Direct	114	Z 22 YH Direct Ecotec		05/03->	K20PBR-S10	1.0	K16PR-ZU11	IK16	VK16
SIGNUM	2.8	i V-6 24V Turbo	169	Ecotec		09/05->	VKH20	1.1		IKH20	VKH20
SIGNUM	3.2	i V-6 24V Turbo	155	Z 32 SE Ecotec		05/03->	K20PBR-S10	1.0	K16PR-ZU11	IK16	VK16
VOLVO											
C 30	1.6	i 16V	74	B4164 S3		10/06->	T16VR-U10	1.3	PT16VR13	ITV16	-
C 30	1.8	i 16V	92	B4184 S08		10/06->	IT20	1.3		IT20	VT20
C 30	2.0	i 16V	107	B4204 S3		10/06->	K20TXR	0.9	K20PR-ZU11	IK20	VK20Y
C 30	2.4	i 20V	125	B5244 S4		10/06->	K20HR-U11	1.1		IKH20	VKH20
C 30	2.5	i T5 20V Turbo	162	B5254 T3		10/06->	IKH20	1.1		IKH20	VKH20
C 70	2.4	i 20V	103	B 5244 S5		03/06->	K20HR-U11	1.1		IKH20	VKH20
C 70	2.4	i 20V	125	B 5244 S4		03/06->	K20HR-U11	1.1		IKH20	VKH20
C 70	2.5	i T5 20V Turbo	162	B 5254 T3		03/06->	IKH20	1.1		IKH20	VKH20
S 40	1.6	i 16V	74	B 4164 S3	Turbo	01/05->	T16VR-U10	1.3	PT16VR13	ITV16	-
V 50	1.6	i 16V	74	B 4164 S3		01/05->	T16VR-U10	1.3	PT16VR13	ITV16	-
V 70	2.5	20V Turbo R	221	B 5254T	Turbo	03/03->	IKH20			IKH20	VKH20
VW											
BORA (1J)	1.6	FSI	81	BAD	Direct injection	08/01-05/05	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20
EOS	3.2	FSI V-6	184	BUB	Direct injection	06/06->	VXU22	0.9			VXU22
EOS	2.0	FSI	110	BVZ	Direct injection	03/06->	K20PR-U	0.9	K20PR-ZU11	IK20	VK20
EOS	2.0	FSI Turbo	147	BWA	Direct injection	03/06->	PK20PR-P8	0.8	PK20PR-P8		VK20Y
GOLF IV	1.6	FSI	81	BAD	Direct injection	08/01-05/05	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20
GOLF IV	1.8	GTI Turbo	132	AUQ		08/01->	PK20PR-P8	0.8	PK20PR-P8		VK20Y
GOLF V	1.4	FSI	66	BKG, BLN	Direct injection	10/03->	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20
GOLF V	1.6	FSI	85	BAG, BLP, BLF, BLN	Direct injection	10/03->	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20
JETTA (III) (1K2)	1.6	FSI	85	BLF	Direct injection	09/05->	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20
JETTA (III) (1K2)	2.0	FSI	110	BLY	Direct injection	09/05->	K20PR-U	0.9	K20PR-ZU11	IK20	VK20
JETTA (III) (1K2)	2.0	FSI Turbo	147	BWA	Direct injection	10/05->	PK20PR-P8	0.8	PK20PR-P8		VK20Y
LUPU	1.4	FSI	77	ARR	Direct injection	09/00-11/03	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20
PASSAT (6) (3C)	1.6	FSI	85	BLF	Direct injection	03/05->	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20
POLO (V) (9N)	1.4	FSI	63	AXU	Direct injection	09/01-05/05	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20
TOURAN	1.6	FSI	85	BAG, BLF, BLP, BLN	Direct injection	02/03->	K20PBR-S10	1.0	K20PR-ZU11	IK20	VK20