2017
Catalog

ELSTAR
elstarsrl.com

Candelette Preriscaldo
Glow Plugs

ELSTAR S.r.l. Via della Resistenza 14 - 40026 IMOLA (BO) - ITALY
Ph. +39 335 240285 export@elstarsrl.com www.elstarsrl.com

GLOW PLUGS FOR ECOLOGICAL DIESEL ENGINES

Diesel engines produce the highest amount of pollution during the first few minutes after starting.

If the glow plugs stay on during this short time, the temperature into the pre-chamber, or into the combustion chamber of a direct injection engine, remains at about 1.000°C allowing a better ignition and reducing the emission of polluting gasses by about 30-40%.

The CEE regulation n. 91-542 of the 1st October 1991, has forced all the vehicles manufacturers to provide the new engines with specific controllers within 1996.

The performances of the glow plugs have therefore been adequate to these new relays that, allowing a shorter pre-heating time, prolong the post-heating for a longer period of time at an average voltage up to 14V.

Thanks to the new technology and specific material, our factory has gradually adjusted its product to the new requirements of a faster Pre-heating (4 to 7 sec.) and Post-heating time (up to 180 sec. after starting).

As a result, from an application point of view, this new generation of glow plugs can substitute all the older models having the same dimension and whose pre and post-heating time match those within the limits of the modern types.

Consequently, many references originally installed during the past 30 years (the we call STANDARD) can be replaced by those of the new and shorter range manufactured both with Single Coil (that we call PH) and Twin Coil (that we call PHD).

PH and PHD glow plugs that substitute the STANDARD range having different rated voltages, will be marked with the battery Voltage (i.e. 12V or 24V)
The best performances as to the rapidity to reach the pre-heating temperature and strength to carry on long post-heating time are surely given by the Twin Coil models (PHD).

Glow plugs are always controlled by a relay that regulates both Pre and Post-heating time.

In the Japanese engines the relays carry out a dual purpose:
'Open' so to permit the pre-heating at the battery forward voltage (12V or 24V)
'Pilot' during post-heating by means of the automatic insertion of a resistance that, after starting, reduces the current to the voltage marked on the glow plug.

In these circumstances the indication of the voltage on the glow plug does not imply a specific feature of the glow plug itself but the voltage the relay forwards during the post-heating to hold the temperature at 900/1000°C for a period of about 15 sec.

CANDELETTE PRERISCALDO PER MOTORI DIESEL ECOLOGICI

I motori diesel producono il punto di massimo inquinamento atmosferico nei primi minuti successivi all'avviamento.

Tenendo attivate le candelette diesel durante questo periodo, la temperatura all'interno della precamera, o nel caso dei motori ad iniezione diretta all'interno della camera di scoppio, sarà mantenuta a circa 1.000°C, consentendo quindi una migliore combustione del carburante e riducendo del 30-40% l'emissione dei gas inquinanti.

La direttiva CEE n°91-542 del 1° Ottobre 1991, a decorrere dal 1992 ed entro il termine massimo del 1996, ha obbligato tutti i costruttori ad equipaggiare i nuovi motori con centraline che garantissero queste prestazioni.
Alle nuove centraline si sono obbligatoriamente dovute adeguare le prestazioni delle candelette che, oltre a soddisfare tempi di Pre-Riscaldo sempre più rapidi, avrebbero dovuto sopportare anche Tempi di Post-Riscaldo molto lunghi ed a tensioni medie di alimentazione di circa 14V.

Con il supporto di nuove tecnologie e di materiali specifici la ns. fabbrica ha gradualmente adeguato tutta la produzione alle esigenze dei nuovi parametri sia di Pre-Riscaldo Rapido (da 4 a 7 sec.), sia di Post-Riscaldo Prolungato (fino a 180 sec. dopo l'avvenuto avviamento).

Dal punto di vista applicativo ne consegue che tutte le vecchie candelette di uguale configurazione ed i cui tempi di Pre-riscaldo e di Post-riscaldo risultano entro i parametri dei modelli costruiti con le nuove tecnologie, possono essere da questi rimpiazzati.

Ne deriva che moltissimi codici già installati in origine nel corso degli ultimi 30 anni (da noi denominati STANDARD), possono essere sostituiti da quelli della nuova e più ristretta gamma costruita sia in versione Monofilamento (da noi denominata PH), sia in versione Doppio Filamento (da noi denominata PHD).

Le candelette PH e PHD che rimpiazzeranno modelli STANDARD con differenti Tensioni nominali, saranno identificate con i Volts dell'impianto elettrico (12v o 24v)

Le prestazioni migliori sia per quanto riguarda la rapidità del raggiungimento della temperatura Pre-riscaldo per l'avviamento, sia per quanto riguarda la robustezza nel sostenere i lunghi tempi di Post-riscaldo, sono sicuramente fornite dai modelli in Doppio Filamento (PHD).

Le candelette sono sempre pilotate da una centralina che "controlla" il tempo sia di Pre che di Post-Riscaldo.

Nei motori Giapponesi le centraline svolgono una duplice funzione:
"**Libera**" nel consentire l'azione di Pre-Riscaldo con il pieno apporto della tensione della batteria;
"**Pilota**" nella funzione di Post-Riscaldo tramite l'inserimento automatico di una resistenza che abbasserà, dopo l'avviamento, la tensione di alimentazione ai Volts riportati sulla candeletta.

In questi casi pertanto la dicitura della tensione riportata sulla candeletta non indica una caratteristica della candeletta stessa, bensì la tensione che la centralina abbinata erogherà in fase di Postriscaldo per mantenerla ad una temperatura di 900 / 1.000°C per un tempo di circa 15 sec.

BOUGIES DE PRECHAUFFAGE POUR MOTEURS DIESELS ECOLOGIQUES

Le point de pollution le plus élevé dans les moteurs Diesels se produit pendant les premières minutes après le démarrage.

Si les bougies continuent à être allumées durant cette période de temps, la température dans la préchambre ou dans la chambre de combustion, dans le cas de moteurs à injection directe, se stabilisera à environ 1.000°C afin de permettre une meilleure injection en réduisant de 30-40% l'émission de gaz polluants.

Le règlement CEE n. 91-542 du 1er octobre 1991 a obligé tous les constructeurs à équiper avant 1996 les moteurs avec des relais de préchauffage qui garantissent ces prestations.

De ce fait, les performances des bougies ont dû être adaptées à ces nouveaux relais qui, en permettant un temps de préchauffage plus rapide, prolongent considérablement le temps de post-chauffage à une tension moyenne de 14V.

Grâce aux nouvelles technologies et à des matériaux spécifiques, notre usine a graduellement adaptée toute sa production aux exigences des nouveaux paramètres de Préchauffage (de 4 à 7 sec) et de Post-chauffage (jusqu'à 180 sec. après le démarrage).

Du point de vue de l'application il en résulte que la gamme fabriquée avec la technologie moderne, peut remplacer toutes les anciennes bougies qui ont les mêmes dimensions et dont les temps de pré et post-chauffage entrent dans les caractéristiques de ces nouveaux modèles.

Par conséquent, beaucoup des références installées en origine pendant les 30 dernières années (que nous appelons STANDARD) peuvent être substituées par ceux de la nouvelle et plus courte gamme fabriquée soit en Mono Filament (que nous appelons PH) soit Double Filament (que nous appelons PHD).

Les bougies PH et PHD qui remplacent la gamme STANDARD ayant des tensions nominales différentes, seront marquées avec le Voltage nominal de la batterie (12V ou 24V).

Les meilleures performances au sujet de la rapidité pour atteindre la température de préchauffage, et la résistance à la longue durée de post-chauffage sont évidemment données par les modèles Double Filament (PHD).

Le fonctionnement des bougies de préchauffage est toujours contrôlé par un boîtier qui règle soit aussi bien le Pré que le Post chauffage.

Dans les moteurs Japonais le boîtier effectue une double fonction:
'**Libre'** en permettant le préchauffage à la tension batterie (12V ou 24V)
'**Piloté'** pendant le post-chauffage par l'insertion automatique d'une résistance qui, après le démarrage, réduit la tension au voltage indiqué sur la bougie.

Dans ces cas l'indication du voltage marqué sur la bougie de préchauffage n'indique pas une caractéristique de la bougie même, mais la tension que le relais distribue pendant le Post chauffage, afin de maintenir la température à 900/1000°C pour environ 15 sec.

VELAS DE INCANDESCENCIA COM PREAQUECIMENTO PARA MOT. ECOLOGICOS

é Durante Os Primeiros Minutos Após a Ligação Que Os Motores a Diesel Produzem o Máximo de Poluição Atmosférica.

Se As Velas De Incandescência Estiverem Activas Durante este Período De Tempo, a Temperatura No Interior Da Pré-Camara e Na Zona De Combustão, Num Motor De Injecção Directa Mantém-se Nos 1000 ºC, Permitindo Uma Melhor Ignição Reduzindo Assim a Emissão de Gases Poluentes Na Atmosfera Em Cerca De 30/40%.

A Directiva Da CEE N.º 91-542 De 1 De Outubro De 1991, Exigiu Que Todos Os Fabricantes De Automóveis Equipassem Os Seus Veículos De Novos Motores, Com Centralinas Que Garantissem Esta Prestação Até 1996.

As Performances Destas Velas De Incandescência, Foram Adequadas As Estes Novos Relays Que Permitindo Um Período De Pré Aquecimento Mais Curto, Prolonga O Pós Aquecimento Por Um Período De Tempo Mais Longo Com Uma Voltagem Média De 14V.

Graças à Nova Tecnologia e Material Especifico a Nossa Fábrica Tem Vindo a Ajustar Gradualmente Os Seus Produtos Para Estes Novos Requisitos.

Tempo De Pré Aquecimento Mais Rápido (4 a 7 Seg.) e Tempo De Pós Aquecimento (Acima De 180 Seg.) Após Ligação.
Como Resultado e Do Ponto De Vista Tecnológico Esta Nova Geração De Velas Pode Substituir Os Antigos Modelos, Tendo As Mesmas Dimensões e Nos Quais o Tempo De Pré e Pós Aquecimento, Vão De Encontro Aos Limites Dos Modelos Modernos.

Consequentemente Muitas Das Referências Dos Últimos 30 Anos (As Que Vulgarmente Chamamos STANDARD), Podem Ser Substituídas Pela Nova e Restrita Gama, Fabricadas Ambas Em Monofilamento (PH) e Duplo Filamento (PHD).

AS VELAS PH E PHD, QUE SUBSTITUEM OS MODELOS "STANDARD" COM DIFERENTES VOLTAGENS, SERÃO MARCADAS COM A VOLTAGEM CORRESPONDENTE (12/24V).

As Melhores Performances, No Que Respeita a Rapidez Para Atingir a Temperatura De Pré Aquecimento e Na Robustez Para Sustentar Um Período Mais Longo No Pós Aquecimento, São Seguramente Fornecidas Através Dos Modelos De DUPLO-FILAMENTO.

NOS MOTORES DE CARROS JAPONESES OS RELAYS TEM DUPLA FUNÇÂO:
"Abertura": Consentir o Pré Aquecimento Na Bateria Enviando Voltagem (12/24v).
"Piloto": Durante o Pós Aquecimento , com a Inserção Automática de Uma Resistência , Que Após a ligação Reduz a Corrente Da Voltagem Marcadas Nas Velas.

Neste Caso a Indicação Da Voltagem Nas Velas Não Significa Que Haja Uma Característica Específica Das Mesmas, Porém a Voltagem Que o Relay Envia Durante a Pós Aquecimento, Permite Manter a Temperatura a 900/1000 ºC, Por Um Período De Cerca De 15 Seg.

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
ABG									
126 H			37	KHD-F3L912		12	05/76->	1540TF	/
128.G			51	KHD-F4L912		12	27881	1540TF	/
17.V.VS			76	KHD-F6L912		12	05/76->	1540TF	/
173.S			44	KHD-F4L912		12	03/69->12/79	1540TF	/
178			76	KHD-F6L912		12	05/76->	1540TF	/
360			51	KHD-F4L912		24	05/72->	1560TF	/
410 S			88	KHD-BF6L912		24		1560TF	/
ALEXANDER 126			36	KHD-F3L912		12	01/68->04/76	1540TF	/
BV 590			44	KHD-F4L912		12	09/69->12/79	1540TF	/
MAW 172.S			44	KHD-F4L912		12	03/69->12/79	1540TF	/
PUMA 168.A			37	KHD-F3L912		12	05/76->	1540TF	/
SAW 186			100	KHD-BF6L913		24	05/76->	1560TF	/
SF 213			100	KHD-BF6L913		24	05/76->	1560TF	/
TITAN 350S			51	KHD-F4L912		24	02/71->	1560TF	/
VAS 512			29	KHD-F3L912		12	09/69->12/79	1540TF	/
WZ 172.S			44	KHD-F4L912		12	03/69->12/79	1540TF	/
AHLMANN									
12			77	KHD-F6L912		24	06/72->	1560TF	/
16			77	KHD-F6L912		24	02/74->12/80	1560TF	/
AF 10			50	KHD-F4L912		24	06/68->12/80	1560TF	/
AS 7			50	KHD-F4L912		24	06/68->12/79	1560TF	/
ALFA ROMEO									
ALFA 6	2.5 TD	**2.5**	77	VM-HR 588HT	5	12	83->87	430	**608PHD**
	1.8 TD	**1.8**	55		4	12	9/86->3/94	608PH	**608PHD**
ALFA 33	1.8 TD	**1.8**	62	VM 82 A	4	12	2/90->3/94	608PH	**608PHD**
	1.8 TD	**1.8**	62	VM HR-392	4	12	9/86->3/94	608PH	**608PHD**
	1.8 TD WAGON	**1.8**	62	VM 96 A	4	12	1/90->3/94	608PH	**608PHD**
ALFA 75	2.0 TD	**2.0**	70	VM 80 A	4	12	5/85->2/92	430	**608PHD**
	2.4 TD	**2.4**	81	VM 81 A	4	12	10/88->02/92	430	**608PHD**
ALFA 90	2.4 TD SUPER	**2.4**	81	VM 81 A	4	12	10/84->1/87	430	**608PHD**
	1.9 TD	**1.9**	66	AR 67.501	4	12	04/94->09/96	366PH	**366PHD**
	1.9 TD	**1.9**	66	AR 33,601	4	12	10/96->09/97	366PH	**366PHD**
ALFA 145	1.9 JTD	**1.9**	76	AR 32.302 JETRONIC SYSTEM 932	4	12	98->	612PH	**612PHD**
	1.9 JTD	**1.9**	76	COOLING WATER HEATER	3	12	98->	/	**627PHD**
	1.9 TD	**1.9**	66	AR 67.501	4	12	04/94->09/96	366PH	**366PHD**
ALFA 146	1.9 TD	**1.9**	66	AR 33,601	4	12	10/96->09/97	366PH	**366PHD**
	1.9 JTD	**1.9**	76	AR 32.302 JETRONIC SYSTEM 932	4	12	98->	612PH	**612PHD**
	1.9 JTD	**1.9**	76	COOLING WATER HEATER	3	12	98->	/	**627PHD**
	1,9 JTD	**1,9**	81	AR 37.101	4	12	11/00->	/	**630PHD**
ALFA 147	1,9 JTD	**1,9**	81	COOLING WATER HEATER	4	12	11/00->	/	**627PHD**
	1,9 JTD 16V (937)	**1.9**	103		4	12	11/02->	/	**851PHD**
ALFA 147 4x4	1,9 JTD 16V (937)	**1.9**	103		4	12	09/04->	/	**851PHD**
	1,9 TD	**1.9**	66	67,502	4	12	04/93->04/96	366PH	**366PHD**
ALFA 155	2.0 TD	**2.0**	66	AR 67.501	4	12	4/93->4/96	359	**366PHD**
	2.5 TD	**2.5**	92	VM 07 B	4	12	4/93->5/95	368PH	**366PHD**
	2.5 TD	**2.5**	92	VM 31 B, B EDC	4	12	05/95->	405PH	**405PHD**
	1.9 JTD	**1.9**	76	AR 32.302 JETRONIC SYSTEM 932	4	12	10/97->	612PH	**612PHD**
	1.9 JTD	**1.9**	76	COOLING WATER HEATER	3	12	10/97->	/	**627PHD**
ALFA 156	2.4 JTD	**2.4**	100	AR 32.501 JETRONIC SYSTEM 932	5	12	10/97->	612PH	**612PHD**
	2.4 JTD	**2.4**	100	COOLING WATER HEATER	3	12	10/97->	/	**627PHD**
	2,4 JTD	**2,4**	103	839 A6,000	5	12	10/00->	/	**630PHD**
	2,4 JTD	**2.4**	110	841 C000	5	12	09/02->	/	**630PHD**
	2,4 JTD	**2.4**	129		5	12	10/03->	/	**630PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
ALFA ROMEO									
ALFA 164	2.5 TD	**2.5**	85	VM 84 A	4	12	6/87->9/92	430	**608PHD**
	2.5 TD SUPER	**2.5**	92	VM 08 B / VM 32 B	4	12	92->5/95	368PH	**366PHD**
	2.5 TD SUPER	**2.5**	92	VM 32 B	4	12	05/95->	405PH	**405PHD**
ALFA 166	2.4 JTD	**2.4**	100	AR 34.202 JETRONIC SYSTEM 932	5	12	10/98->	612PH	**612PHD**
	2.4 JTD	**2.4**	100	COOLING WATER HEATER	3	12	10/98->	/	**627PHD**
	2.4 JTD	**2,4**	103	AR 36.202	5	12	10/00->	/	**630PHD**
	2,4 JTD	**2.4**	110	841 C000	5	12	04/02->	/	**630PHD**
ALFA GT	1,9 JTD	**1.9**	110		4	12	11/03->	/	**851PHD**
ALFETTA	2.0 TD	**2.0**	82-84	VM 4 HT/2	4	12	10/79->3/83	430	**608PHD**
	2.4 TD	**2.4**	69-70	VM 4 HT 2.4	4	12	4/83->12/84	430	**608PHD**
GIULIETTA	2.0 TD	**2.0**	61	VM 4 HT	4	12	3/83->4/85	430	**608PHD**
10 AR6, 13 AR6, 14 AR6	2,5 D	**2.5**	53	8144.61.200 / 8144.67.200	4	12	4/85->2/86	370	**366PHD**
14 TD	2,5 D	**2.5**	68	Sofim 8144.61.220	4	12	09/86->12/89	370	**/**
30AR8,32AR8,35AR8,40AR8	2,5 D	**2.5**	53	SOFIM 8140.61.200	4	12	2/80->12/89	376	**366PHD**
ARO									
10.1D - 10.4D	1,9	**1.9**	47	RENAULT F8Q 248	4	12		376	**366PHD**
240D, 241D, 242D, 244D	2,5	**2.5**	71-101	XUD	4	12	3/77->9/86	370	**366PHD**
240D, 244D, 246D	2,5	**2.5**	55	PEUGEOT XD3P, XD3TP	6	12		359	**366PHD**
	2,7	**2.7**	52	L27 ARO	6	12		441	**/**
	3,1	**3.1**	52	D127 BRASOV	6	12		441	**/**
ENDURO 4x4				VOLKSWAGEN	4	12	01/70->01/86	348PH	**348PHD**
FORESTER	2.5 TD	**2.5**				12	94->	366PH	**366PHD**
TRAPEURS	1.9 D	**1.9**				12	94->	602PH	**602PHD**
ASIA									
ROCSTA 4x4	2,2 D	**2.2**	45	R2	4	12	06/93->09/99	317	**317PHD**
ATLAS									
1202			30	KHD-F3L912		12	01/73->12/78	1540TF	**/**
1252			34	KHD-F3L912		12	06/75->12/84	1540TF	**/**
1302 C			46	KHD-F4L912		12	01/73->12/78	1540TF	**/**
1602 D			52	KHD-F4L912		12	04/76->12/84	1540TF	**/**
1702			66	KHD-F5L912		12	01/73->12/78	1540TF	**/**
1902			73	KHD-F6L912		12	01/73->12/78	1540TF	**/**
2002			121	KHD-F6L413V		24	01/73->02/88	1560TF	**/**
2502			154	KHD-F8L413V		24	01/73->02/88	1560TF	**/**
AB 1602			51	KHD-F4L912		12	01/73->12/78	1540TF	**/**
ABL 710			51	KHD-F4L912		12	01/73->12/78	1540TF	**/**
AR 70			51	KHD-F4L912		12	01/73->12/84	1540TF	**/**
AT 710			51	KHD-F4L912		12	01/73->12/78	1540TF	**/**
B			192	KHD-F10L413V		24	04/76->02/88	1560TF	**/**
ATLAS COPCO									
170			36	KHD-F4L912		12	07/69->12/79	1540TF	**/**
250			55	KHD-F6L912		12	08/69->12/79	1540TF	**/**
48			36	KHD-F4L912		12	02/73->12/86	1540TF	**/**
700			164	KHD-F10L413		24	05/72->12/86	1550TF	**/**
71			55	KHD-F6L912		12	02/73->12/86	1540TF	**/**
PR 425			99	KHD-F6L413		24	02/72->12/86	1550TF	**/**
ST 35, STS 35			27	KHD-F3L912		12	01/73->12/86	1540TF	**/**
VSS 125			27	KHD-F3L912		12	11/69->12/79	1540TF	**/**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
AUDI									
	1.9 ALL MODELS D, TD	1.9	75-90	CR, CY, JK, RA, SB, AAZ, 1Y	4	12	->91	348PH	**348PHD**
80	1.9 TD	1.9	55	AAZ	4	12	9/91->7/95	348PH	**348PHD**
	1.9 TDI, AVANT	1.9	66	1Z	4	12	9/91->7/95	611PH	**611PHD**
	1.9 TDI, AVANT			COOLING WATER HEATER	3	12	9/91->7/95	607PH	**607PHD**
90	1.6 TD	1.6	51-59	CY, RA,SB	4	12	10/84->12/91	348PH	**348PHD**
	2.0 ALL MODELS D, TD	2.0	51	CN, DE, NC	5	12	8/78->7/80	348PH	**348PHD**
100	2.4 D	2,4	60	AAS, 3D	5	12	8/89->	348PH	**348PHD**
	2.5 TDI, AVANT	2.5	85-88	AAT,ABP, 1T	5	12	1/90->	611PH	**611PHD**
A2	1.2 TDI	1,2	45	ANY	3	12	2/00->	611PH	**611PHD**
	1.4 TDI	1,4	55	AMF	3	12	2/00->08/03	/	**647PHD**
	1.9 TDI	1,9	66	AGR, ALH, ANU	4	12	9/96->	611PH	**611PHD**
	1.9 TDI	1,9	66	COOLING WATER HEATER	3	12	9/96->	607PH	**607PHD**
	1.9 TDI	1.9	74	ATD, AXR	4	12	10/00->	611PH	**611PHD**
A3	1.9 TDI	1.9	74	COOLING WATER HEATER	3	12	10/00->	607PH	**607PHD**
	1,9 TDI	1,9	74	ATD	4	12	03/03->	/	**647PHD**
	1.9 TDI	1,9	81	AHF	4	12	01/97->	611PH	**611PHD**
	1.9 TDI	1,9	81	COOLING WATER HEATER	3	12	01/97->	607PH	**607PHD**
	1.9 TDI	1,9	85	AJM	4	12	8/98->	611PH	**611PHD**
	1.9 TDI	1,9	85	COOLING WATER HEATER	3	12	8/98->	607PH	**607PHD**
	1.9 TDI	1,9	96	ASZ	4	12	10/00->	611PH	**611PHD**
	1.9 TDI	1,9	96	COOLING WATER HEATER	3	12	10/00->	607PH	**607PHD**
	1.9 TDI	1,9	55	AFF, AFN, AHH, AHU,AJM, ATD, AVF, 1Z,	4	12	3/96->	611PH	**611PHD**
A4	1.9 TDI	1,9	55-114	COOLING WATER HEATER	3	12	3/96->	607PH	**607PHD**
	2.5 TDI, QUATTRO	2.5	110-132	AFB, AKN,AKE, AVL	6	12	11/97->	/	**626PHD**
	2,5 TDI CONVERTIBLE	2.5	120	BCZ-BDG	6	12	08/02->		**626PHD**
	1.9 TDI	1.9	66-96	AHU, AFN, AJM, AVF1Z,AWF, AWX	4	12	7/94->08/01	611PH	**611PHD**
	1.9 TDI	1.9	66-96	COOLING WATER HEATER	3	12	7/94->08/01	607PH	**607PHD**
	1,9 TDI	1.9	96	AVF-AWX	4	12	08/01->	348PH	**348PHD**
A6	2.5 TDI	2.5	85-103	AAT, AEL	5	12	6/94->10/97	611PH	**611PHD**
	2.5 TDI	2.5	110-132	AFB, AKE,AKN	6	12	4/97->7/98	/	**626PHD**
	2,5 TDI	2.5	114	AYM	6	12	08/01->	/	**626PHD**
	2.5 TDI	2.5	110-132	AFB, AKE, AKN	6	12	6/97->9/98	/	**626PHD**
A8	3,3 TDI	3,3	165	AKF	6	12	09/99->	/	**626PHD**
	4,0 TDI quattro	4.0	202	ASE	8	12	03/03->	/	**647PHD**
5000	2.0 D	2.0	51	CN	5	12	5/79->5/83	348PH	**348PHD**
	2.0 TD	2.0	66	DE	5	12	6/83->07/85	348PH	**348PHD**
CABRIO	1.9 TDI	1.9	66	1Z, AHU	4	12	7/95->7/96	611PH	**611PHD**
	1.9 TDI	1.9	66	COOLING WATER HEATER	3	12	7/95->7/96	607PH	**607PHD**

AVIA									
A 21.1					4	12	10/90->	366PH	**366PHD**
A 31.1					4	12	10/90->	366PH	**366PHD**
AVIA		3.6	65	D407	4	12	->1/93	366PH	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
BEDFORD									
ASTRA 1.6 MAX, VAN	1.6 D	**1.6**	40	16D OHC	4	12	3/82->	366PH	**366PHD**
ASTRA 1.6 VAN	1.7 D	**1.7**	42	17D	4	12	1/89->	366PH	**366PHD**
	1.7 TD	**1.7**	60	Isuzu TC4 EE1 (S/N817253->), 17 DT/TC4	4	12	2/90->	316	**316PHD**
	1.7 TD	**1.7**	60	Isuzu TC4 EE1 (S/N->817252)	4	12	2/90->8/91	302	**316PHD**
BLITZ	2.1 XPD	**2.1**	44	-> MOT.21 DT-36242	4	12	9/72 -> 9/78	447	**/**
	2.1	**2.1**	44	MOT.21 36243 ->	4	12	9/72 -> 9/78	434	**/**
	2,0	**2,0**	44	21D SERIE:97000	4	12	9/75 -> 9/78	433	**/**
	2.0 D	**2.0**	44	97000	4	12	11/79->12/80	366PH	**366PHD**
	2.3 D	**2.3**	46	OPEL 23D OHC	4	12	9/80-> 7/87	370	**366PHD**
BRAVA PICK-UP D 4x4	2.2 D	**2.2**	52	ISUZU C223	4	12	12/88->	319	**339PHD**
	2.5 D	**2.5**		ISUZU 4JA1T	4	12	12/88->	319	**339PHD**
CF 2.3 D, VAN D	2.3 D	**2.3**	48-52	OPEL 23D OHC	6	12	9/80->	366PH	**366PHD**
CF 230, 250, 280, 350	2.3 D	**2.3**				12	9/82->7/87	366PH	**366PHD**
KB 26	2.0 D	**2.0**				12	8/82->1/88	366PH	**366PHD**
KB PICKUP	2.0 D	**2.0**		OHV		12	80->99	319	**339PHD**
MIDI VAN	2.0 D	**2.0**	50	ISUZU 4FC1	4	12	->7/88	319	**339PHD**
	2.0 TD	**2.0**		ISUZU 4FC1T	4	12	8/88->	302	**316PHD**
	2.2 D	**2.2**	44	ISUZU 4FD1	4	12	3/88->	302	**316PHD**
VAN	2.5 D	**2.5**		ISUZU		12	11/89->	386	**386PHD**
BMW									
318 (E36)	1.8 TDS	**1.8**	66	M41 D18	4	12	9/94->	363PH	**366PHD**
318 D (E 46)	2.0 D	**2.0**	85		4	12	09/01->	/	**806PHD**
318 TD (E 46)	2.0 D	**2.0**	85		4	12	03/03->	/	**806PHD**
320 d (E46)	2.0 D	**2.0**	100	M47 D20	4	12	4/98->	/	**616PHD**
320 d (E46)	2.0 D	**2.0**	110		4	12	09/01->	/	**806PHD**
320 CD (E46)	2.0 D	**2.0**	110		4	12	11/03->	/	**806PHD**
324 (E30)	2.4 D	**2.4**	63	M21 D24	6	12	9/85->8/91	359	**366PHD**
	2.4 TD	**2.4**	85	M21 D24	6	12	9/87->	363PH	**366PHD**
325 (E36)	2.5 TD	**2.5**	85	M51 D25	6	12	9/91->	363PH	**366PHD**
	2.5 TDS	**2.5**	105	M51 D25	6	12	93->	363PH	**366PHD**
330 XD (E46)	3.0 XD	**3,0**	135	M57 D30	6	12	07/00->	/	**616PHD**
330 D (E46)	3.0 D	**3,0**	150		6	12	07/00->	/	**806PHD**
330 XD (E46)	3.0 XD	**3,0**	150		6	12	07/00->	/	**806PHD**
330 CD (E46)	3.0 CD	**3,0**	150		6	12	03/03->	/	**806PHD**
520 d (E39)	2.0 D	**2.0**	100	M47 D20	4	12	02/00->	/	**616PHD**
524 (E28)	2.4 D	**2.4**	63	M21 D24	6	12	9/83->12/87	359	**366PHD**
524 (E28)	2.4 TD	**2.4**	85	M21 D24	6	12	9/83->8/91	363PH	**366PHD**
525 d (E39)	2.5 D	**2,5**	120	M57 D25	6	12	04/00->	/	**616PHD**
525 (E34)	2.5 TD	**2.5**	85	M51 D25	6	12	9/91->	363PH	**366PHD**
525 (E34 , E39)	2.5 Tds	**2.5**	105	M51 D25	6	12	9/91->	363PH	**366PHD**
530Td (E39)	3.0 TD	**3.0**	135	M57 D30	6	12	8/98->	/	**616PHD**
530 D (E60)	3,0 D	**3.0**	160		6	12	07/03->	/	**806PHD**
725 Tds (E38)	2.5 Tds	**2.5**	105	M51 D25	6	12	1/96->	363PH	**366PHD**
730 d, Td (E38)	3.0 D	**3.0**	142	M57 D30	6	12	8/98 ->	/	**616PHD**
730 d, Td (E65, E66)	3,0 D	**3.0**	160		6	12	10/02->	/	**806PHD**
740 Td (E38)	4.0 TD	**4.0**	180	M67 D40	8	12	1/99->	/	**649PHD**
740 d, Td (E65, E66)	4,0 TD	**4.0**	190		8	12	10/02->	/	**835PHD**
X3	3,0 D	**3.0**	150		6		01/04->	/	**806PHD**
X5	3,0 D	**3.0**	135	30 6 D1	6	12	03/01->	/	**616PHD**
X5	3,0 D	**3.0**	160		6	12	01/04->	/	**806PHD**
118 D (E 87)	2,0 D	**2.0**	90		4	12	09/04->	/	**806PHD**
120 D (E 87)	2,0 D	**2.0**	120		4	12	09/04->	/	**806PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
BODINI									
TRACTORS						12		438	/
TRUCKS						24		439	/
BOMAG									
10A			41	KHD-F4L912		12	01/73->	1540TF	/
200			44	KHD-F4L912		12	01/73->06/86	1540TF	/
15 A			77	KHD-F6L912		12	01/73->	1540TF	/
211			103	KHD-F6L912		12	06/73->06/85	1540TF	/
211.B			82	KHD-F6L912		12	01/73->06/85	1540TF	/
212			103	KHD-BF6L913		12	09/73->	1540TF	/
213.A.D.AD			82	KHD-F6L912		12	08/81->	1540TF	/
213 PD			103	KHD-F6L913		12	02/83->	1540TF	/
6			37	KHD-F3L912		12	01/73->	1540TF	/
BW 4 A			37	KHD-F3L912		12	01/73->09/84	1540TF	/
BUICK									
CENTURY	4.3 D	**4.3**		4.3 i DIESEL V6 T,V	6	12	82->83	418	**418PHD**
	5.7 D	**5.7**	77	5.7 i DIESEL V8 N	8	12	81->81	418	**418PHD**
ELECTRA 5.7	5.7 D	**5.7**		5.7 i DIESEL V8 N	8	12	80->83	418	**418PHD**
LESABRE 5.7	5.7 D	**5.7**		5.7 i DIESEL V8 N	8	12	80->83	418	**418PHD**
REGAL	4.3 D	**4.3**		4.3 i DIESEL V6 T,V	8	12	82->83	418	**418PHD**
	5.7 D	**5.7**		5.7 i DIESEL V8 N	8	12	81->83	418	**418PHD**
	4.3	**4.3**		4.3 V6 260 cu.in	6	12	82->83	418	**418PHD**
RIVIERA	5.7 D	**5.7**		5.7 i DIESEL V8 N	8	12	80->83	418	**418PHD**
	5.7	**5.7**		5.7 V8 260 cu.in.	8	12	80->83	418	**418PHD**
CADILLAC									
DE VILLE	5,7 D	**5.7**		5.7 i DIESEL V8 N	8	12	79->83	418	**418PHD**
ELDORADO	5,7 D	**5.7**		5.7 i DIESEL V8 N	8	12	79->83	418	**418PHD**
FLEETWOOD	5,7 D	**5.7**		5.7 i DIESEL V8 N	8	12	79->83	418	**418PHD**
SEVILLE	5,7 D	**5.7**		5.7 i DIESEL V8N	8	12	79->83	418	**418PHD**
	5,7 D	**5.7**		5.7 i DIESEL V8 350 cu.in.	8	12	79->83	418	**418PHD**
CASALINI									
	KORE	**0.5**	4	Lombardini 2100089 Fox 500	2	12		366PH	**366PHD**
SULKY-YDEA	KORE	**0.5**	4	Lombardini 2100077 Fox 500	2	12		366PH	**366PHD**
	KORE	**0.5**	4	Lombardini 2100072 Fox 500	2	12		366PH	**366PHD**
	KORE	**0.5**	4	Mitsubishi L2C2 MM43214801	2	12		/	**656PHD**
CATERPILLAR									
BULLDOZER				330/4, 330/6, 340/6	4-6	24		388	/
				320/4	4	24		389	/
POWER SHOVEL				330/4, 330/6, 340/6	4-6	12		390	/
				B15, 25 FLT, B10, 12 FLT, 510 PFLT		12		1501TS	/

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
CHEVROLET									
BLAZER	6,2 D	**6.2**		6.2 i DIESEL V8 C, B8 J	8	12	82->92	413	**413PHD**
C10,20,30-K10,20						12	83->	413	**413PHD**
K30-P20,30						12	83->	413	**413PHD**
CAPRICE	5,7 D	**5.7**		5.7 i DIESEL V8 N	8	12	80->83	418	**418PHD**
CELEBRITY	4,3 D	**4.3**		4.3 i DIESEL V6 T	6	12	82->83	418	**418PHD**
EL CAMINO	4.3 V	**4.3**		4.3 V6 260 cu.in.	6	12		418	**418PHD**
	5.7 N	**5.7**		5.7 V8 350 cu.in.	8	12	82->83	418	**418PHD**
	5.7 N, Z	**5.7**		5.7 V8 350 CID	8	12	80->82	418	**418PHD**
IMPALA	5,7 D	**5.7**		5.7 i DIESEL V8 N	8	12	80->83	418	**418PHD**
MALIBU	4,3 D	**4.3**		4.3 i DIESEL V6 V	6	12	82->83	418	**418PHD**
MONTECARLO	5,7 D	**5.7**		5.7 i DIESEL V8 N	8	12	82->83	418	**418PHD**
CHASSIS	6,5 TD 0,75t	**6.5**		V8	8	12	1/82->12/89	454	**/**
	6,5 TD 0,5t, 1,0t, Motor-home	**6.5**		V8	8	12	1/82->	454	**/**
FULL SIZE	6,5 TD Classic CK	**6.5**		V8	8	12	1/99->	454	**/**
	6,5 TD CK	**6.5**		V8	8	12	1/82->	454	**/**
	6,5 TD RV	**6.5**		V8	8	12	1/87->12/91	454	**/**
MD Bus CHASSIS	6,5 TD	**6.5**		V8	8	12	1/97->12/98	454	**/**
VAN	6,5 TD 0,5t	**6.5**		V8	8	12	1/82->12/86	454	**/**
	6,5 TD 0,75t	**6.5**		V8	8	12	1/82->12/00	454	**/**
	6,5 TD 1,0t	**6.5**		V8	8	12	1/82->	454	**/**
	6,5 TD 1,0t CLASSIC	**6.5**		V8	8	12	1/99->	454	**/**
CHRYSLER / JEEP									
RENEGADE	2.1 D	**2.1**		MOT. ISUZU		12	83->	321	**339PHD**
CHEROKEE	2.1 TD	**2.1**	59/65	RENAULT J8S, J8S814,J8S890	4	12	1/87->1/91	376	**366PHD**
	2.1 TD	**2.1**	65	RENAULT J8S890	4	12	2/91->8/94	602PH	**602PHD**
	2.5 TD	**2.5**	85-87	VM HR425 CLIRX	4	12	9/94->5/95	366PH	**366PHD**
	2.5 TD	**2.5**	85-87	VM HR425 CLIRX	4	12	5/95->	405PH	**405PHD**
CJ5 - CJ7	2,3	**2,3**		ISUZU C240	4	12		339	**339PHD**
DAKOTA						12		405PH	**405PHD**
GRAND CHEROKEE	2.5 TD	**2.5**	88	VM HR492 / VM 425 CLIRE	4	12	1/93->	366PH	**366PHD**
	2.5 TD	**2.5**	85	VM HR425 CLIRX	4	12	10/95->	405PH	**405PHD**
	2,5 TD	**2.5**	110	ENC	5	12	4/99->	405PH	**405PHD**
	2,7 CRD	**2.7**	120	WJ, WG	5	12	10/01->	405PH	**405PHD**
	3,1 TD	**3.1**	103	EXA 1	5	12	4/99->	405PH	**405PHD**
GRAND VOYAGER	2.5 TD LE	**2.5**	85-87	VM HR 425 CLI	4	12	92->95	366PH	**366PHD**
	2.5 TD LE	**2.5**	88	VM HR425 CLIEE	4	12	05/95->	405PH	**405PHD**
LAREDO, TEXAN	2.1 D	**2.1**	64	RENAULT	4	12	7/88->	376	**366PHD**
PT CRUISER	2,2 CRD	**2.2**	89		4	12	03/02->	/	**625PHD**
SAHARAN,WRANGLER	2.1 D	**2.1**	64	RENAULT	4	12	7/88->	376	**366PHD**
VOYAGER	2.5 TD SE	**2.5**	85	VM HR425 CLIRE / VM HR492	4	12	4/92->4/95	366PH	**366PHD**
	2.5 TD LE/SE	**2.5**	88	VM HR425 CLIEE	4	12	05/95->	405PH	**405PHD**
	2,5 TD	**2.5**	103	EXA 1	5	12	3/01->	611PH	**611PHD**
	2,5 CRD	**2.5**	105		4	12	01/00->	611PH	**611PHD**
CITROEN									
AX	1.4 GTD,RD,TRD Allure, Caban	**1.4**	39	K9A (TUD 3L)	4	12	9/88->9/94	381	**603PHD**
	1.5 D	**1.5**	40-43	VJY, VJZ (TUD 5)	4	12	10/94->	403PH	**403PHD**
BX	1.7 D	**1.7**	44	161A(XUD 7)	4	12	7/85->	366PH	**366PHD**
	1.7 TD,TRD Turbo	**1.7**	66	AJZ(XUD7TE/Y),A8A (XUD7TE)	4	12	2/88->	366PH	**366PHD**
	1,8 D	**1.8**	44	XUD7	4	12	7/85->1/93	366PH	**366PHD**
	1,8 TD, TRD	**1.8**	66	XUD7TE	4	12	3/88->1/93	366PH	**366PHD**
	1.9 D,RD,TD,TRD	**1.9**	47	162(XUD 9)	4	12	9/83->12/87	366PH	**366PHD**
	1.9 D,TD,TRD	**1.9**	51	D9B(XUD9A/L)	4	12	3/87->	366PH	**366PHD**
	1.9 TGD	**1.9**	47	DJZ (XUD9Y)	4	12	1/89->	366PH	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
CITROEN									
CX	2.5 D	2.5	54	M25-660	4	12	7/82->6/88	366PH	**366PHD**
	2.5 D Pallas, RD, TRD	2.5	54	M25-660	4	12	7/82->12/92	366PH	**366PHD**
	2.5 TD Turbo 2	2.5	70-78	M25-648(CRD93T), M25-669, M25-671	4	12	4/83->12/92	366PH	**366PHD**
	2.2 D	2.2	49	M22-621	4	12	10/75->2/79	392	**/**
	2.5 D, REFLEX	2.5	55	M25-629	4	12	2/78->6/79	392	**/**
	2.5 D, REFLEX	2.5	55	M25-629	4	12	7/79->6/82	366PH	**366PHD**
C 2	1,4 HDI	1,4	50	8HX (DV4TD)	4	12	01/04->	/	**818PHD**
C 3	1,4 HDI	1,4	50	8HX (DV4TD)	4	12	02/02->	/	**818PHD**
	1,4 16V HDI	1,4	66	8HY	4	12	02/02->	/	**818PHD**
C 4 (NUOVA XSARA)	1,4 HDI	1,4	50	8HX (DV4TD)	4	12	10/04->	/	**818PHD**
C 5	2.0 HDI	2,0	80	DW10ATED	4	12	03/01->	617PH	**617PHD**
	2,2 HDI 16V	2,2	98	DW12TED4/FAP	4	12	01/01->	617PH	**617PHD**
C 8	2,0 HDI	2.0	79	DW10ATED	4	12	07/02->	617PH	**617PHD**
	2,2 HDI	2.2	94	DW12TED4/FAP	4	12	07/02->	617PH	**617PHD**
BERLINGO	1.8 D	1.8	44	A9A (XUD7)	4	12	7/96->	366PH	**366PHD**
	1.9 D	1.9	51	XUD9A	4	12	7/96->	366PH	**366PHD**
	1.8 D	1.8	51	DW8, TD	4	12	9/98->	623PH	**623PHD**
	2.0 HDI	2,0	80	DW10TD	4	12	06/00->	617PH	**617PHD**
EVASION	1.9 TD	1.9	68	XUD9TF, XUD9BTF	4	12	7/94->	366PH	**366PHD**
	2.0 TD	2.0	68	DHX	4	12	5/97->	366PH	**366PHD**
	2.0 HDI	2.0	80	DW10TD/DW10ATED	4	12	8/98->	617PH	**617PHD**
	2.1 TD	2.1	80-81	P8C, XUD11BTE	4	12	5/96->4/97	366PH	**366PHD**
SAXO	1.5 D	1.5	37	TUD 5	4	12	2/96->	403PH	**403PHD**
	1.5 D	1.5	40/42	VJY / VJZ / TUD 5	4	12	9/96->	403PH	**403PHD**
SYNERGIE	1,9 D	1.9	51	DW8	4	12	09/98 ->	623PH	**623PHD**
	1,9 TD	1.9	68	XUD9TF	4	12	03/94 ->	366PH	**366PHD**
	2,0 HDI	2.0	80	DW10	4	12	01/00 ->	617PH	**617PHD**
VISA	1.7 D,RD	1.7	44	161 A	4	12	4/84->3/91	366PH	**366PHD**
ZX	1.4 D	1.4	37-39	K9Y (TUD 3)	4	12	3/91-> 9/94	603PH	**603PHD**
	1.5 D	1.5	40 - 42	TUD 5	4	12	2/96 ->	403PH	**403PHD**
	1.8 D	1.8	44	A9A,161A, XUD7	4	12	3/91->	366PH	**366PHD**
	1.9 D	1.9	47-52	XUD9A/L	4	12	3/91->	366PH	**366PHD**
	1.9 TD	1.9	68	DHY,D8A(XUD9T/L , XUD9TE)	4	12	9/92->	366PH	**366PHD**
XANTIA	1.9 D	1.9	51	XUD9A / L	4	12	3/93->01/96	366PH	**366PHD**
	1.9 D	1.9	55	XUD9A	4	12	5/94->	366PH	**366PHD**
	1,9 TD	1.9	66 - 68	XUD9BTF / XUD9BSD	4	12	03/93 ->	366PH	**366PHD**
	2.0 HDI	2,0	81	DW10TD, ATED	4	12	10/98->	617PH	**617PHD**
	2.0 HDI BREAK	2,0	66	DW10TD,ATED	4	12	10/98->	617PH	**617PHD**
	2.1 TD	2.1	80	XUD11BTE / XUD11BTF	4	12	5/95->	366PH	**366PHD**
XM	2.1 D	2.1	60	(XUD11A/L)	4	12	5/89->	366PH	**366PHD**
	2.1 TD	2.1	80	XUD11ATE/L, XUD11BTE	4	12	5/89->	366PH	**366PHD**
	2.5 TD	2.5	96	THY(DK5ATE)	4	12	7/94->	366PH	**366PHD**
XSARA	1.5 D	1.5	40 - 42	TUD 5	4	12	2/96 ->	403PH	**403PHD**
	1.8 D, BREAK	1.8	43	XUD7	4	12	10/97-	366PH	**366PHD**
	1.9 D	1.9	50	XUD9A	4	12	10/97-	366PH	**366PHD**
	1.9 D	1.9	51	DW 8	4	12	7/98->	623PH	**623PHD**
	1.9 TD	1.9	66	XUD9TE	4	12	10/97->	366PH	**366PHD**
	2.0 HDI	2.0	80	DW10ATED	4	12	05/01->	617PH	**617PHD**
	2.0 HDI, BREAK, COUPE	2.0	66	DW10TD	4	12	2/99->	617PH	**617PHD**
	PICASSO 2.0 HDI	2,0	66	DW10TD	4	12	06/00->	617PH	**617PHD**
XSARA II	1,9 D	1,9	55	DHV (XUD9BSD)	4	12	10/00->	366PH	**366PHD**
	1,9 TD	1,9	66	DHY (XUD9TE / Y)	4	12	10/00->	366PH	**366PHD**
	2,0 HDI	2,0	80	DW10	4	12	06/00 ->	617PH	**617PHD**
C 15	1.8 D	1.8	44	161 A(XUD 7)	4	12	7/86->12/97	366PH	**366PHD**
C 25 D	1.9 D	1.9	51	D9B(XUD9A)	4	12	7/87->	366PH	**366PHD**
	2.5 D	2.5	54/55	CRD93L(U25/651,661)	4	12	7/81->	366PH	**366PHD**
C 25 TD	2.5 TD	2.5	70	CRD93LS	4	12	8/87->	366PH	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
CITROEN									
C 32 D	2.2 D	**2.2**	45	CRD90(B22/615)	4	12	9/73->12/79	392	**/**
	2.2 D	**2.2**	45	CRD90	4	12	4/79->12/79	366PH	**366PHD**
	2.2 D	**2.2**	45	CRD90	4	12	4/79->12/79	366PH	**366PHD**
C 35 D	2.2 D	**2.2**	45	CRD90(B22/615)	4	12	9/73->12/79	392	**/**
	2.5 D	**2.5**	50	CRD93B(B25/637)	4	12	1/80->	366PH	**366PHD**
C 45 D	2.5 D	**2.5**	50	CRD93B(B25/637)	4	12	1/80->	366PH	**366PHD**
	1,9 D	**1,9**	51	XUD9A	4	12	1/96 ->	366PH	**366PHD**
DISPATCH	1,9 TD	**1,9**	68	XUD9TF	4	12	1/96 ->	366PH	**366PHD**
	2,0 HDI	**2,0**	80	DW10	4	12	9/98 ->	617PH	**617PHD**
	1000 D	**1.9**	51	XUD9	4	12	11/95->	366PH	**366PHD**
	1400 D	**2.5**	63	DJ5	4	12	03/94->	366PH	**366PHD**
	1400 TD	**2.5**	76	DJ5T	4	12	03/94->12/96	366PH	**366PHD**
RELAY	1400 TDI	**2.5**	76	DJ5TED	4	12	01/97->	620PH	**620PHD**
	1800 D	**1.9**	51	XUD9	4	12	11/95->	366PH	**366PHD**
	1800 D	**2.5**	63	DJ5	4	12	03/94->	366PH	**366PHD**
	1800 TD	**2.5**	76	DJ5T	4	12	03/94->12/96	366PH	**366PHD**
	1800TDI	**2.5**	76	DJ5TED	4	12	01/97->	620PH	**620PHD**
	1.9 D	**1.9**	51	XUD9AU	4	12	3/94->	366PH	**366PHD**
	1.9 TD	**1.9**	68	XUD9TFU	4	12	3/94->	366PH	**366PHD**
JUMPER	2.0 D	**2.0**	80	DW10TED, DW10DU	4	12	9/98->	617PH	**617PHD**
	2,0 HDI	**2.0**	62	DW10UTD	4	12	04/02->	617PH	**617PHD**
	2,2 HDI	**2.2**	74	DW12TED	4	12	04/02->	617PH	**617PHD**
	2.5 D	**2.5**	63	DJ5	4	12	3/94->	366PH	**366PHD**
	2.5 TD	**2.5**	76	DJ5T	4	12	3/94->8/96	366PH	**366PHD**
	2.5 TDI	**2.5**	76	DJ5TED	4	12	9/96->	620PH	**620PHD**
	2,8 HDI	**2.8**	94	F.28TDCR	4	12	09/00->	615PH	**615PHD**
	1.8 D	**1.8**	51	DW8, TD	4	12	9/98->	623PH	**623PHD**
	1.9 D	**1.9**	50-52	XUD, XUD9A	4	12	10/95->	366PH	**366PHD**
JUMPY	1.9 TD	**1.9**	66-68	XUD, XUD9TF	4	12	10/95->	366PH	**366PHD**
	2.0 HDI	**2,0**	80	DW10	4	12	10/99->	617PH	**617PHD**
	2,0 HDI	**2.0**	69		4	12	10/99->	617PH	**617PHD**
CLAAS									
75 R			77	KHD-F6L912		12	10/74->	1540TF	**/**
MERCATOR 60			70	KHD-F6L912		12	01/73->	1540TF	**/**
CLAYSON									
1520			51	KHD-F4L912		12	02/72->12/79	1540TF	**/**
1530			72	KHD-F6L912		12	01/72->12/79	1540TF	**/**
1540			74	KHD-F6L912		12	01/72->12/79	1540TF	**/**
DACIA									
DUSTER D	1.6 GLD	**1,6**	40		4	12	11/89->	376	**366PHD**
DAEWOO									
	1,9 D	**1,9**	40	F8Q290, F8Q292	4	12	02/99->	/	**629PHD**
KORANDO	2,9 D	**2,9**	72	MB-OM 662	4	12	01/99->	365PH	**365PHD**
	2,9 TD	**2,9**	88	MB-OM 601	4	12	01/99->	365PH	**365PHD**
	2,2 TD	**2,2**	74	MB-OM 662	4	12	09/99->	365PH	**365PHD**
MUSSO	2,9 D	**2,9**	72	MB-OM 662	4	12	01/99->	365PH	**365PHD**
	2,9 TD	**2,9**	88	MB-OM 601	4	12	01/99->	365PH	**365PHD**
REXTON	2,9 TD	**2.9**	88		5	12	04/02->	365PH	**365PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
DAF									
FA 65 CF 180			133	NS 133 M		12	02/98->	884	/
FA 65 CF 210			156	NS 156 M		12	02/98->	884	/
FA 65 CF 240			177	NS 177 M		12	02/98->	884	/
FAV 65 CF 180			133	NS 133 M		12	02/98->	884	/
FAV 65 CF 210			156	NS 156 M		12	02/98->	884	/
FA 75 CF 250			183	PF 183 M		12	02/98->	884	/
FA 75 CF 290			212	PF 212 M		12	02/98->	884	/
FA 75 CF 320			235	PF 235 M		12	02/98->	884	/
FAG 75 CF 250			183	PF 183 M		12	02/98->	884	/
FAG 75 CF 290			212	PF 212 M		12	02/98->	884	/
FAG 75 CF 320			235	PF 235 M		12	02/98->	884	/
FAN 75 CF 250			183	PF 183 M		12	02/98->	884	/
FAN 75 CF 290			212	PF 212 M		12	02/98->	884	/
FAN 75 CF 320			235	PF 235 M		12	02/98->	884	/
FAR 75 CF 250			183	PF 183 M		12	02/98->	884	/
FAR 75 CF 290			212	PF 212 M		12	02/98->	884	/
FAR 75 CF 320			235	PF 235 M		12	02/98->	884	/
FAS 75 CF 250			183	PF 183 M		12	02/98->	884	/
FAS 75 CF 290			212	PF 212 M		12	02/98->	884	/
FAS 75 CF 320			235	PF 235 M		12	02/98->	884	/
FAT 75 CF 250			183	PF 183 M		12	02/98->	884	/
FAT 75 CF 290			212	PF 212 M		12	02/98->	884	/
FAT 75 CF 320			235	PF 235 M		12	02/98->	884	/
FT 75 CF 250			183	PF 183 M		12	02/98->	884	/
FT 75 CF 290			212	PF 212 M		12	02/98->	884	/
FT 75 CF 320			235	PF 235 M		12	02/98->	884	/
FA 85 CF 340			250	XF 250 M		12	02/98->	884	/
FA 85 CF 390			280	XF 280 M		12	02/98->	884	/
FA 85 CF 430			315	XF 315 M		12	02/98->	884	/
FAC 85 CF 340			250	XF 250 M		12	02/98->	884	/
FAC 85 CF 390			280	XF 280 M		12	02/98->	884	/
FAC 85 CF 430			315	XF 315 M		12	02/98->	884	/
FAD 85 CF 340			250	XF 250 M		12	02/98->	884	/
FAD 85 CF 390			280	XF 280 M		12	02/98->	884	/
FAD 85 CF 430			315	XF 315 M		12	02/98->	884	/
FAG 85 CF 340			250	XF 250 M		12	02/98->	884	/
FAG 85 CF 390			280	XF 280 M		12	02/98->	884	/
FAG 85 CF 430			315	XF 315 M		12	02/98->	884	/
FAN 85 CF 340			250	XF 250 M		12	02/98->	884	/
FAN 85 CF 390			280	XF 280 M		12	02/98->	884	/
FAN 85 CF 430			315	XF 315 M		12	02/98->	884	/
FAR 85 CF 340			250	XF 250 M		12	02/98->	884	/
FAR 85 CF 390			280	XF 280 M		12	02/98->	884	/
FAR 85 CF 430			315	XF 315 M		12	02/98->	884	/
FAS 85 CF 340			250	XF 250 M		12	02/98->	884	/
FAS 85 CF 390			280	XF 280 M		12	02/98->	884	/
FAS 85 CF 430			315	XF 315 M		12	02/98->	884	/
FAT 85 CF 340			250	XF 250 M		12	02/98->	884	/
FAT 85 CF 390			280	XF 280 M		12	02/98->	884	/
FAT 85 CF 430			315	XF 315 M		12	02/98->	884	/
FT 85 CF 340			250	XF 250 M		12	02/98->	884	/
FT 85 CF 390			280	XF 280 M		12	02/98->	884	/
FT 85 CF 430			315	XF 315 M		12	02/98->	884	/
FTG 85 CF 340			250	XF 250 M		12	02/98->	884	/
FTG 85 CF 390			280	XF 280 M		12	02/98->	884	/
FTG 85 CF 430			315	XF 315 M		12	02/98->	884	/
FTT 85 CF 340			250	XF 250 M		12	02/98->	884	/

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
DAF									
FTT 85 CF 390			280	XF 280 M		12	02/98->	884	/
FTT 85 CF 430			315	XF 315 M		12	02/98->	884	/
FA 95 XF 380			280	XF 280 M		12	02/98->	884	/
FA 95 XF 430			315	XF 315 M		12	02/98->	884	/
FA 95 XF 480			355	XF 355 M		12	02/98->	884	/
FA 95 XF 530			390	XF 390 M		12	02/98->	884	/
FAC 95 XF 380			280	XF 280 M		12	02/98->	884	/
FAC 95 XF 430			315	XF 315 M		12	02/98->	884	/
FAC 95 XF 480			355	XF 355 M		12	02/98->	884	/
FAC 95 XF 530			390	XF 390 M		12	02/98->	884	/
FAD 95 XF 380			280	XF 280 M		12	02/98->	884	/
FAD 95 XF 430			315	XF 315 M		12	02/98->	884	/
FAD 95 XF 480			355	XF 355 M		12	02/98->	884	/
FAD 95 XF 530			390	XF 390 M		12	02/98->	884	/
FAR 95 XF 380			280	XF 280 M		12	02/98->	884	/
FAR 95 XF 430			315	XF 315 M		12	02/98->	884	/
FAR 95 XF 480			355	XF 355 M		12	02/98->	884	/
FAR 95 XF 530			390	XF 390 M		12	02/98->	884	/
FAS 95 XF 380			280	XF 280 M		12	02/98->	884	/
FAS 95 XF 430			315	XF 315 M		12	02/98->	884	/
FAS 95 XF 480			355	XF 355 M		12	02/98->	884	/
FAS 95 XF 530			390	XF 390 M		12	02/98->	884	/
FAT 95 XF 380			280	XF 280 M		12	02/98->	884	/
FAT 95 XF 430			315	XF 315 M		12	02/98->	884	/
FAT 95 XF 480			355	XF 355 M		12	02/98->	884	/
FAT 95 XF 530			390	XF 390 M		12	02/98->	884	/
FT 95 XF 380			280	XF 280 M		12	02/98->	884	/
FT 95 XF 430			315	XF 315 M		12	02/98->	884	/
FT 95 XF 480			355	XF 355 M		12	02/98->	884	/
FT 95 XF 530			390	XF 390 M		12	02/98->	884	/
FTG 95 XF 380			280	XF 280 M		12	02/98->	884	/
FTG 95 XF 430			315	XF 315 M		12	02/98->	884	/
FTG 95 XF 480			355	XF 355 M		12	02/98->	884	/
FTG 95 XF 530			390	XF 390 M		12	02/98->	884	/
FTR 95 XF 380			280	XF 280 M		12	02/98->	884	/
FTR 95 XF 430			315	XF 315 M		12	02/98->	884	/
FTR 95 XF 480			355	XF 355 M		12	02/98->	884	/
FTR 95 XF 530			390	XF 390 M		12	02/98->	884	/
FTS 95 XF 380			280	XF 280 M		12	02/98->	884	/
FTS 95 XF 430			315	XF 315 M		12	02/98->	884	/
FTS 95 XF 480			355	XF 355 M		12	02/98->	884	/
FTS 95 XF 530			390	XF 390 M		12	02/98->	884	/
FTT 95 XF 380			280	XF 280 M		12	02/98->	884	/
FTT 95 XF 430			315	XF 315 M		12	02/98->	884	/
FTT 95 XF 480			355	XF 355 M		12	02/98->	884	/
FTT 95 XF 530			390	XF 390 M		12	02/98->	884	/
DAIHATSU									
BUS	DG			DG(SV37)	4	12	70->73	408	/
CHARADE	1,0 D	**1.0**	28	CL10(N-G30,30V)	3	12	1/83->	412	**411PHD**
	1,0 CL30	**1.0**	28	CL30 (Q-G101S MAN.TRANS.)	3	12	1/87->	467	**411PHD**
	1,0 CL50 TURBO	**1.0**	35	CL50T	3	12	9/84->	411	**411PHD**
	1,0 CL51	**1.0**	28	CL51(N-G101S AUT.TRANS.)	3	12	1/87->	466	**411PHD**
	1.0 CL70, CL70 TURBO	**1.0**	28	CL70, CL70T	3	12	1,87->	411	**411PHD**
DELTA TRUCK	2C			2C (S-CB72V)	4	12	8/88->	466	**411PHD**
	2C-T			2C-T (Q-CB21G)	4	12	8/88->	412	**411PHD**
	B, 3B 24V	**3.0**	57	B, 3B	4	24	83->	/	**406PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
DAIHATSU									
DELTA TRUCK	B, 3B 12V	**3.0**	57	B, 3B	4	12	2/83->	411	**411PHD**
	DG, DL40	**3.4**		DG, DL40	4	12	8/77->	411	**411PHD**
DELTA WIDE	1C, 2C, 2C-T			1C, 2C, 2C-T	4	12	5/83->	404	**411PHD**
FOUR TRACK	2.8 D	**2.8**	54	DL 40, DL 50	4	12	1/85->12/93	411	**411PHD**
HIJET	CL20			CL20	4	12		412	**411PHD**
ROCKY 4WD	2.8 D	**2.8**	54	DL50	4	12	4/84->4/93	412	**411PHD**
	2.8 TD	**2.8**	67-75	DL	4	12	04/84->	412	**411PHD**
TAFT 4WD	2.5 D	**2.5**	46	DG (F50,K-F50)	4	12	8/78->3/84	463	**411PHD**
	2.8 D	**2.8**	54	DL 40	4	12	10/82->	463	**411PHD**
1000 CAB/VAN S77/S77V	1.0 D	**1.0**	27-28	CL20	4	12	10/83->2/87	402	**411PHD**
DEMAG									
21 C.P			68	KHD-F5L912		24	04/74->12/78	1560TF	/
23 C.L			82	KHD-F6L912		24	04/74->12/78	1560TF	/
31			114	KHD-F6L413V		24	04/74->12/87	1550TF	/
36			114	KHD-F6L413V		24	06/76->12/87	1550TF	/
41, 51			154	KHD-F8L413		24	04/74->12/87	1560TF	/
101			154	KHD-F8L413		24	04/74->04/77	1560TF	/
H 15 C.P			51	KHD-F4L912		24	04/74->12/78	1560TF	/
DEUTZ-FAHR									
660			41	KHD-F3L912		12	01/80->12/80	1540TF	/
750			47	KHD-F4L912		12	09/74->12/80	1540TF	/
900			52	KHD-F4L912		12	09/74->12/79	1540TF	/
922			56	KHD-F4L912		12	05/76->12/81	1540TF	/
1000			66	KHD-F6L912		12	01/68->12/77	1540TF	/
1002			64	KHD-F5L912		12	05/76->12/81	1540TF	/
1102			73	KHD-F6L912		12	05/76->12/80	1540TF	/
1200			80	KHD-F6L912		12	01/68->12/77	1540TF	/
1202			80	KHD-F6L912		12	05/76->01/80	1540TF	/
1300 H			129	KHD-BF6L913		12	01/74->04/76	1540TF	/
1300 M			88	KHD-F6L913		12	09/74->12/79	1540TF	/
1302 H.HA			102-117	KHD-BF6L913		12	05/76->12/79	1540TF	/
2003			44	F4L912H		12	09/74->05/80	1540TF	/
INTRAC 2002			37	F3L912		12	01/73->12/76	1540TF	/
M 1202			81	KHD-F6L912		12	01/80->	1540TF	/
M 600			41	KHD-F3L912		12	09/74->12/80	1540TF	/
FERRARI									
TRATTORE 94				SLANZI DVA 1030		12	06/80->	886	/
TRATTORE 95				SLANZI DVA 1550		12	06/80->	886	/
FIAT									
127	1,3 D	**1.3**	33	127 A... / 127 A 5...	4	12	4/83->2/87	366PH	**366PHD**
131	Mirafiori D	**2.0**	44	8144.65...	4	12	3/78->1/84	366PH	**366PHD**
	Mirafiori D	**2.5**	53	8144.61...	4	12	8/78->12/84	366PH	**366PHD**
132	2.0 D	**2.0**	44	8144.65...	4	12	3/78->5/81	366PH	**366PHD**
	2.5 D	**2.5**	52	8144.61...	4	12	3/78->5/81	366PH	**366PHD**
ARGENTA	2.5 D, TD	**2.5**	53-66	8144.61, 8144.81	4	12	81->	366PH	**366PHD**
	1.9 D	**1.9**	48	160 A 7.000	4	12	10/95->	366PH	**366PHD**
	1.9 TD	**1.9**	55-74	182 A 7.000, 182 A 8.000	4	12	11/98->	384PH	**384PHD**
BRAVA / BRAVO	1,9 JTD	**1,9**	76	182 B 9.000(Mot.1716460->)	4	12	8/00->	/	**630PHD**
	1,9 JTD	**1,9**	76	COOLING WATER HEATER	3	12	8/00->	/	**627PHD**
	1.9 JTD	**1.9**	77	AR 32.302	4	12	12/98->07/00	612PH	**612PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
FIAT									
BRAVA / BRAVO	1,9 JTD	**1,9**	77	COOLING WATER HEATER	3	12	12/98->07/00	/	**627PHD**
CAMPAGNOLA	2.5 D	**2.5**	53	8142.61	4	12	6/79->10/86	366PH	**366PHD**
	1.9 TD i.d.	**1.9**	69	154B,154 C 6.000,154 D 1.000	4	12	3/88->12/96	337PH	**337PHD**
	2.5 D	**2.5**	55	8144.67	4	12	12/85->12/89	366PH	**366PHD**
CROMA	2.5 TD	**2.5**	74	8144.91.200	4	12	12/85->2/89	366PH	**366PHD**
	2.5 TD	**2.5**	85	8144.97.2500	4	12	1/93->12/93	374PH	**374PHD**
	2.5 TD	**2.5**	85-86	8144.97.200, 8147.97.2200	4	12	3/89->12/92	366PH	**366PHD**
	1,9 D	**1,9**	46	223 A 6.000	4	12	01/01->	624PH	**624PHD**
DOBLO	1,9 JTD	**1,9**	74		4	12	01/01->	/	**630PHD**
	1,9 JTD	**1,9**	74	COOLING WATER HEATER	3	12	01/01->	/	**627PHD**
DUNA	1.7 D	**1.7**	44	149 B 3.000	4	12	10/86->12/90	366PH	**366PHD**
	1.3 D	**1.3**	33	127 A5, 146 B 1.000	4	12	3/82->	366PH	**366PHD**
FIORINO	1.7 D	**1.7**	42-43	149 B 3.000 149 B 4.046	4	12	12/87->	366PH	**366PHD**
	1.7 TD	**1.7**	47	146 D 7.000	4	12	2/97->	366PH	**366PHD**
	1,3 JTD	**1.3**	51		4	12	06/03->	/	**819PHD**
IDEA	1,9 JTD	**1,9**	74		4	12	01/01 ->	/	**630PHD**
	1,9 JTD	**1,9**	74	COOLING WATER HEATER	3	12	01/01 ->	/	**627PHD**
	1.9 TD	**1.9**	55-74	182 A 7.000, 182 A 8.000	4	12	9/96->4/99	384PH	**384PHD**
	1,9 JTD	**1,9**	77	182 B 4.000(->Mot.1713819)	4	12	3/99->11/99	612PH	**612PHD**
	1,9 JTD	**1,9**	77	COOLING WATER HEATER	3	12	3/99->11/99	/	**627PHD**
	1,9 JTD	**1,9**	77	182 B 4.000(Mot.1713820->)	4	12	12/99 ->	/	**630PHD**
	1,9 JTD	**1,9**	77	COOLING WATER HEATER	3	12	12/99 ->	/	**627PHD**
MAREA	1,9 JTD	**1,9**	81	186 A 6.000	4	12	08/00->	/	**630PHD**
	2.4 TD	**2.4**	91	185 A 2.000	5	12	9/96->2/99	384PH	**384PHD**
	2.4 JTD	**2.4**	96	185 A 6.000 (->Mot. 1713819)	5	12	3/99->11/99	612PH	**612PHD**
	2,4 JTD	**2,4**	96	COOLING WATER HEATER	3	12	3/99->11/99	/	**627PHD**
	2,4 JTD	**2,4**	100	185 A 6.000(Mot.1713820->)	5	12	12/99->	/	**630PHD**
	2,4 JTD	**2,4**	100	COOLING WATER HEATER	3	12	12/99->	/	**627PHD**
	1.9 D	**1.9**	48	160 A 7.000	4	12	1/92->	366PH	**366PHD**
	1.9 TD	**1.9**	66	160 A 6.000	4	12	1/92->12/96	366PH	**366PHD**
	1.9 TD	**1.9**	66	160 A 6.000	4	12	2/97->	384PH	**384PHD**
	1,9 JTD	**1,9**	77	182 B 4.000(->Mot.1713819)	4	12	03/99->11/99	612PH	**612PHD**
MARENGO	1,9 JTD	**1,9**	77	182 B 4.000(Mot.1713820->)	4	12	12/99->	/	**630PHD**
	1,9 JTD	**1,9**	81	186 A 6.000(Mot.1713820->)	4	12	08/00->	/	**630PHD**
	1,9 JTD	**1,9**	81	COOLING WATER HEATER	3	12	08/00->	/	**627PHD**
	2.0 D	**2.0**	48	149 A 1	4	12	1/86->7/89	366PH	**366PHD**
	2.5 D	**2.5**	53	8144.61	4	12	5/80->7/89	366PH	**366PHD**
	1,9 JTD	**1,9**	77	182B4000(->Mot.1692991)	4	12	1/99->11/99	612PH	**612PHD**
	1,9 JTD	**1,9**	77	182B4000 (Mot.1692992->)	4	12	12/99->	/	**630PHD**
MULTIPLA	1,9 JTD	**1,9**	77	COOLING WATER HEATER	3	12	1/99->	/	**627PHD**
	1,9 JTD	**1,9**	81	186 A 6000	4	12	03/01->07/02	/	**630PHD**
	1,9 JTD	**1,9**	85		4	12	07/02->	/	**630PHD**
	1.7 D, TD	**1.7**	51-52	176 A 3.000	4	12	04/96->	366PH	**366PHD**
PALIO	1,9 D	**1,9**	46	223 A 6.000	4	12	10/00->	624PH	**624PHD**
	1,9 JTD	**1,9**	74		4	12	01/01 ->	/	**630PHD**
	1,9 JTD	**1,9**	74	COOLING WATER HEATER	3	12	01/01 ->	/	**627PHD**
PANDA	1.3 D	**1.3**	27	156 A 5.000	4	12	3/86->12/89	366PH	**366PHD**
	1,3 JTD	**1.3**	51		4		09/03->	/	**819PHD**
PANDA 4x4	1,3 JTD	**1.3**	51		4		09/04->	/	**819PHD**
	1,3 JTD	**1.3**	51		4		06/03->	/	**819PHD**
	1.7 D	**1.7**	42	176 A 3.000	4	12	11/94->	366PH	**366PHD**
	1.7 TD	**1.7**	53	176 A 5.000, 176 TD, 1697 TT	4	12	6/93->	366PH	**366PHD**
PUNTO/PUNTO II	1.9 D	**1.9**	44	188 A 3.000	4	12	9/99->	624PH	**624PHD**
	1,9 JTD	**1,9**	63	188 A 7,000	4	12	02/00->	/	**630PHD**
	1,9 JTD	**1,9**	59	188 A 2000	4	12	9/99->	/	**630PHD**
	1,9 JTD	**1,9**	59	COOLING WATER HEATER	3	12	9/99->		**627PHD**
REGATA	1.7 D	**1.7**	43	138 B... / 149 B 3...	4	12	9/83->3/89	366PH	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
FIAT									
REGATA	1.9 D, DT	**1.9**	48	149 A 1, 831 D1...	4	12	4/84->7/89	366PH	**366PHD**
RITMO	ALL MODELS				4	12	10/79->	366PH	**366PHD**
SCUDO	1.8 D, TD	**1.8**	51	DW 8, DW8 TD	4	12	9/98->	623PH	**623PHD**
	1.9 D	**1.9**	51	D 9 B	4	12	3/96->	366PH	**366PHD**
	1.9 TD	**1.9**	68	XUD9TF	4	12	3/96->	366PH	**366PHD**
	2,0 JTD	**2,0**	69-80	RHZ, RHW, RHX	4	12	12/99->	617PH	**617PHD**
STRADA	1.7 D	**1.7**	43	138A, AE, 149B3, 831 D1	4	12	79->	366PH	**366PHD**
	1,9 JTD	**1.9**	59		4	12	04/03->	/	**630PHD**
STILO	1,9 JTD	**1.9**	59		4	12	10/01->	/	**630PHD**
	1,9 JTD	**1.9**	81		4	12	10/01->	/	**630PHD**
	1,9 JTD	**1.9**	85		4	12	01/03->	/	**630PHD**
TALENTO	1.9 D	**1.9**	51	149 B 1.000	4	12	3/88->12/94	366PH	**366PHD**
TEMPRA	1.9 D, TD ALL MODELS	**1.9**	48-68		4	12	2/90->	366PH	**366PHD**
TIPO	1.7 D - 1.9 D, TD		42-68		4	12	7/87->	366PH	**366PHD**
ULYSSE	1.9 TD	**1.9**	66	XUD 9 TU (D8B, DHX)	4	12	9/94->	366PH	**366PHD**
	2.0 JTD	**2.0**	80	RHZ, RHW	4	12	10/99->08/02	617PH	**617PHD**
	2.0 JTD	**2.0**	80	RHZ	4	12	08/02->	617PH	**617PHD**
	2.1 TD	**2.1**	80	XUD 11 ATE (P8C EDC)	4	12	5/96->	366PH	**366PHD**
	2.2 JTD	**2,2**	94	4HV (DW12ATED4)	4	12	08/02->	617PH	**617PHD**
UNO	ALL MODELS		33-52		4	12	6/83->	366PH	**366PHD**
240						12	->8/79	392	**/**
242	15/18 D	**2.5**	50	CRD 90	4	12	74->	366PH	**366PHD**
BUS 315, 316				24V		24		1502TS	**/**
DAILY	2,8 D	**2,8**	64	8140.63	6	12	06/98->	615PH	**615PHD**
DAILY, GRINTA	D, TD ALL MODELS	**2.5**	53	8140.61.204	4	12	4/78->	366PH	**366PHD**
DUCATO	10 D	**1.9**	51	230 A 2.000	4	12	3/94->	374PH	**374PHD**
	10 D	**2.0**	52	149 B 1.000	4	12	2/87->2/94	366PH	**366PHD**
	10TD	**1.9**	60	280 A 1.000	4	12	3/94->	366PH	**366PHD**
	10TD	**1.9**	59	230 A 4.000 ECO	4	12	3/94->	366PH	**366PHD**
	10TD	**1.9**	66	DHX	4	12	4/98 ->	366PH	**366PHD**
	10TD	**2.0**	60	280 A 1.000	4	12	1/90->2/94	366PH	**366PHD**
	10TD	**2.5**	70	8140.27	4	12	7/90 -> 2/94	366PH	**366PHD**
	10TD	**1.9**	50	DJY	4	12	4/98 ->	623PH	**623PHD**
	13 D	**2.5**	53	SOFIM, 8140.62	4	12	->12/85	366PH	**366PHD**
	14 D	**2.5**	62	8140.67.220	4	12	3/94->3/98	604PH	**604PHD**
	14 DI	**2.5**	81	8140.47R	4	12	3/94->	1580TF	**/**
	14 DI	**2.5**	85	8140.47.220	4	12	3/94->	1580TF	**/**
	14 TD	**1.9**	60	280 A 1.000, 230 A 3.000	4	12	2/87->3/98	366PH	**366PHD**
	14 TD	**2.5**	68	8144.21.220	4	12	1/86->2/94	366PH	**366PHD**
	14 TDI	**2.5**	68	8144.21.220	4	12	1/86->6/90	1570TF	**/**
	14 D, 14 D 4x4	**2.5**	55	8144.67.220	4	12	1/86->2/94	366PH	**366PHD**
	14 TD 4x4	**2.5**	68	8144.21.220	4	12	1/89->2/94	366PH	**366PHD**
	14 TDi 4x4	**2.5**	68	8144.21.220	4	12	1/89->6/90	1580TF	**/**
	18 MAXI TD	**2.5**	68	8144.21.220	4	12	1/86->2/94	366PH	**366PHD**
	18 MAXI TDI	**2.5**	68	8144.21.220	4	12	1/86->6/97	1580TF	**/**
	18 MAXI Tdi	**2.8**	90	8140.43	6	12	6/97->	1580TF	**/**
	18 2,8 D	**2,8**	64	8140.63	6	12	6/98->	615PH	**615PHD**
	2,0 JTD	**2.0**	62	DW10	4	12	04/02->	617PH	**617PHD**
	2,3 JTD	**2.3**	81	F1AE 0481C	4	12	04/02->	/	**853PHD**
	2,8 JTD	**2.8**	94	8140.43S	4	12	11/00->	615PH	**615PHD**
OM TRUCKS 100, 120				24V		24		1502TS	**/**
TRACTORS						12		1506TS	**/**
						12		1503TS	**/**
				215		24		439	**/**
				215		12		438	**/**
				241		12		438	**/**
				241		24		439	**/**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
FIAT									
TRACTORS				241 D		12		443	/
				241 D		24		444	/
				411		24		444	/
				411		12		443	/
				415		12		443	/
				415		24		444	/
				615 2^ - 3^ SERIE		24		444	/
				615 2^ - 3^ SERIE		12		443	/
				615 M1 - SERIE DIAMANTE		12		443	/
				615 M1 - SERIE DIAMANTE		24		444	/
				615 N		24		444	/
				615 N		12		438	/
				615 N		12		443	/
				641		24		439	/
				1400 B		24		439	/
				1400 B		12		438	/
TRACTORS TL5,TL 5H				12V		12		1503TS	/
TRUCKS-BUS						24		2530TS	/
FISSORE									
MAGNUM	**4x4**	**2.4**	77		6	12	7/84->4/86	366PH	**366PHD**
RAYTON	**TD 4x4**	**2.4**	82	HR492HIM	6	12	3/88 ->	608PH	**608PHD**
FORD									
COURIER	1,8 D	**1.8**	66	RTC, RTD, RTG	4	12	09/91->2/96	603PH	**603PHD**
	1,8 D	**1.8**	66	RTJ, RTK	4	12	2/96->7/98	601PH	**601PHD**
	1,8 TDCi	**1.8**	66	C9DA	4	12	8/98->	/	**618PHD**
ECONOVAN	2.0 D	**2.0**	41	RF, R2	4	12	9/85 ->	322	**317PHD**
ESCORT	Turnier TD	**1.8**	66	RFD,RFK	4	12	8/90->7/00	378	**603PHD**
	Turnier TD	**1.8**	66	RFS	4	12	1/95->2/99	601PH	**601PHD**
	1.6 D	**1.6**	40	D16	4	12	1/86->1/89	361	**604PHD**
	1.6 D,VAN35,VAN55	**1.6**	40	LTA / LTC	4	12	4/84->	361	**604PHD**
	1.8 D, Express, Turnier	**1.8**	44	RTF,RTH,RTA,RTB,RTE	4	12	1/86->	378	**603PHD**
	1,8 TD	**1.8**	51	RVA	4	12	8/90 .-> 7/98	601PH	**601PHD**
FIESTA	1,4 TDCI	**1,4**	50	F6JA/F6JB	4	12	11/01->	/	**818PHD**
	1.6 D	**1.6**	40	LTB	4	12	4/84->2/89	361	**604PHD**
	1.8 D, Courier	**1.8**	44	RTK,RTJ	4	12	11/95 ->	601PH	**601PHD**
	1.8 D, Courier	**1.8**	44	RTC,RTD,RTG	4	12	3/89 ->	378	**603PHD**
	1,8 DI	**1,8**	66	C9DC	4	12	8/98->	/	**618PHD**
FOCUS	C-MAX 1,6 TDCi	**1.6**	80		4	12	10/03->	/	**818PHD**
	C-MAX 2,0 TDCi	**1.8**	100		4	12	10/03->	/	**818PHD**
	1.8 DI	**1.8**	55	BHDA,BHDB	4	12	8/98->	/	**618PHD**
	1.8 DI	**1.8**	66	C9DA,C9DB,C9DC	4	12	8/98->	/	**618PHD**
FUSION	1,4 TDCI	**1,4**	50	F6JA	4	12	08/02->	/	**818PHD**
GALAXY	1.9 Tdi	**1.9**	66	1Z, AHU, ANU	4	12	02/96->	611PH	**611PHD**
	1.9 Tdi	**1.9**	66	COOLING WATER HEATER	3	12	02/96->	607PH	**607PHD**
	1.9 Tdi	**1.9**	81	AFN	4	12	95->	611PH	**611PHD**
	1.9 Tdi	**1.9**	81	COOLING WATER HEATER	3	12	95->	607PH	**607PHD**
	1.9 Tdi	**1.9**	85	AUY	4	12	4/00 ->	611PH	**611PHD**
	1.9 Tdi	**1.9**	85	COOLING WATER HEATER	3	12	4/00 ->	607PH	**607PHD**
GRANADA	1.9D	**1.9**	40	GD 19	4	12	8/77->2/79	446	/
	1.9D	**1.9**	40	GD 19	4	12	2/79->8/82	370	**366PHD**
	2.1 D	**2.1**	44	WTA/GD	4	12	2/79->8/82	370	**366PHD**
	2.1 D	**2.1**	44	WTA/GD	4	12	8/77->2/79	446	/
	2,5 D,Turnier	**2.5**	51	STP / PD	4	12	9/82->8/85	359	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
FORD									
MAVERICK	2,7 D	**2.7**	74	TD27 / TD27T	4	12	93->	313	**313PHD**
	2,7 TI-TD	**2.7**	92	TD27E	4	12	9/96->04/98	/	**644PHD**
MONDEO	1.8 TD	**1.8**	65	RFM,RFN	4	12	1/93->7/96	603PH	**603PHD**
	1.8 TD	**1.8**	66	RFN	4	12	8/96->9/99	601PH	**601PHD**
	1.8 TD Di	**1.8**	66	D5BA	4	12	10/99 ->	/	**636PHD**
	2.0 Di	**2.0**	66	D5BA	4	12	10/00 ->	/	**636PHD**
	2.0 TDCi	**2.0**	85	D5BA / D6BA	4	12	10/00 ->	/	**636PHD**
MONTEREY	3.1 TD	**3.1**	84	ISUZU 4JG2 TC OHV	4	12	8/91->4/93	316	**316PHD**
ORION	1.6 D	**1.6**	40	LTA / LTC	4	12	4/84->1/89	361	**604PHD**
	1.8 D	**1.8**	44	EURO1(RTA,RTB)-(RTE,RTF)-(RTH)	4	12	1/89->12/83	378	**603PHD**
	1.8 TD	**1.8**	66	EURO1 (RFD,RFK)	4	12	3/93->12/93	378	**603PHD**
RANGER	2,5 D	**2.5**	57	WL	4	12	10/99->04/02	322	**317PHD**
	2,5 D 4x4	**2.5**	57	WL	4	12	10/99->04/02	322	**317PHD**
	2,5 TD 4x4	**2.5**	80	WL-T	4	12	10/99->	322	**317PHD**
SAPPHIRE	1.8 TD	**1.8**			4	12		378	**603PHD**
	2.3 TD	**2.3**		XD2	4	12		359	**366PHD**
SCORPIO	2.5 D	**2.5**	51	STR	4	12	12/85->2/92	366PH	**366PHD**
	2.5 TD	**2.5**	68	SFA,SFB	4	12	5/85->10/94	366PH	**366PHD**
	2.5 TD	**2.5**	85	SCB	4	12	5/85->10/94	366PH	**366PHD**
	2.5 TD	**2.5**	92	SCD	4	12	10/94 -> 6/98	405PH	**405PHD**
	2,5 TD, Turnier	**2.5**	85	SCC	4	12	1/95->	405PH	**405PHD**
SIERRA	1.8 D, TD	**1.8**	55	RFA,RFB,RFL	4	12	1/87->12/92	378	**603PHD**
	2.3 D,Turnier	**2.3**	49	YTR,YTT/PD	4	12	6/82->12/92	359	**366PHD**
TOURNEO	2,5 Di, 2,5 TD	**2.5**	51-74	4FA,FB,FC D25N,4HA,HB D25P,4GA,GB,GC,4EB	4	12	7/94->	1505TS	**/**
	1,8 Turbo D	**1.8**	66		4	12	09/02->	**/**	**618PHD**
TRANSIT	D FT100,120,130, 160, 190	**2.4**	46	MOT. YORK	4	12	07/79->	351	**604PHD**
	D FT100,120,130, 160, 190	**2,5**	50-60	MOT. YORK DIRECT INJECTION	4	12	8/83->	1505TS	**/**
	DIESEL			MOT. PERKINS	4	12	01/71->06/79	370	**366PHD**
	2.0 Di	**2.0**	55	D3FA	4	12	3/99 ->	/	**636PHD**
	2.0 Di	**2.0**	74	ABFA	4	12	3/99 ->	/	**636PHD**
	2.4 Di	**2.4**	66	D2FA	4	12	01/00 ->	/	**636PHD**
	2,4 Di	**2.4**	55	F4FA	4	12	01/00 ->	/	**636PHD**
	2.4 Di	**2.4**	88	D4FA	4	12	01/00 ->	/	**636PHD**
	2.5 Di	**2,5**	50	4AB	4	12	1/86 -> 7/91	1505TS	**/**
	2.5 DI	**2,5**	59	4DA	4	12	8/91 -> 7/94	1505TS	**/**
	2.5 Di	**2,5**	63	4GA	4	12	8/91 -> 794	1505TS	**/**
	2.5 Di	**2.5**	52	4CA, 4FA, 4BA, 4BB, 4BC, 4CA, 4CB, 4CC	4	12	1/86 ->	1505TS	**/**
	2.5 TD	**2,5**	74	4EA	4	12	8/91 -> 7/94	1505TS	**/**
	2.5 TD	**2,5**	60	4AE Di	4	12	1/86 -> 7/91	1505TS	**/**
TRANSIT CONNECT	1,8 Di	**1.8**	55		4	12	09/02->	601PH	**601PHD**
	1,8 Turbo Di	**1.8**	66		4	12	09/02->	601PH	**601PHD**
	1,8 TDCi	**1.8**	66		4	12	09/02->	601PH	**601PHD**
TRACTORS						12		1506TS	**/**
ENGINE		**6.9**		6.9L 8 CYL.		12	83->12/86	418	**/**
		6.9		6.9L 8 CYL.		12	87->	416	**/**
		7.3		7.3L 8 CYL.		12	88->93	416	**/**
FREIGHTROVER									
1,5 D Van	1,5 D Van	**1.5**			4	12	1/83->3/89	427	**/**
2,0 D	2,0 D	**2.0**	46	PERKINS - PRIMA 65	4	12	5/86->3/89	366PH	**366PHD**
2,5 DI Van	2,5 DI Van	**2.5**			4	12	1/87->3/89	366PH	**366PHD**
FSO/FSK (PL)									
D	D	**1.6**	37	VW	4	12	1/86->	348PH	**348PHD**
CARO	CARO	**1.9**	51	XUD 9L,XUD 9A	4	12	10/92->	359	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
FUCHS									
400			29	KHD-F3L912		12	01/69->12/78	1540TF	/
500			35	KHD-F4L912		12	01/69->12/79	1540TF	/
701 M			29	KHD-F3L912		12	01/69->12/78	1540TF	/
702 M.R			37	KHD-F3L912		12	01/69->12/78	1540TF	/
703 M.R			49	KHD-F4L912		12	01/69->12/79	1540TF	/
GENERAL MOTORS									
ENGINE				381M, 466F, 466M, 220F, 200G		24		2530TS	/
GMC									
C	15					12	83->	413	**413PHD**
	25					12	83->	413	**413PHD**
	35					12	83->	413	**413PHD**
CABALLERO	N 5.7 V8	**5.7**		350 cu.in.	8	12	82->83	418	**418PHD**
	V 4.3 V6	**4.3**		260 cu.in.	6	12		418	**418PHD**
						12	82->	418	**418PHD**
ENGINE	5.7	**5.7**		350 CID (N,Z)	8	12	80->82	418	**418PHD**
	5.7	**5.7**		5.7L (N) 8 CYL.	8	12	83	418	**418PHD**
	5.7	**5.7**		5.7L (N,Z) 8 CYL.	8	12	80->81	418	**418PHD**
	5.7	**5.7**		5.7L (Z) 8 CYL.	8	12	78->79	453	**453PHD**
	5.7	**5.7**		5.7L (N) 8 CYL.	8	12	84	454	/
	6.2	**6.2**		6.2L (C,J) 8 CYL.	8	12	82->93	413	**413PHD**
	6.5	**6.5**		6.5L (F) 8 CYL.	8	12	92->93	413	**413PHD**
JIMMY	i Diesel V8	**6.2**		C,J	8	12	82->91	413	**413PHD**
						12	83->	413	**413PHD**
K	15					12	83->	413	**413PHD**
	25					12	83->	413	**413PHD**
	35					12	83->	413	**413PHD**
P	25					12	83->	413	**413PHD**
	35					12	83->	413	**413PHD**
GOLDONI									
42 B			25			12	06/91->	886	/
236				SLANZI DVA 1550		12	01/78->12/84	886	/
240				SLANZI DVA 1750		12	06/79->10/88	886	/
245			28			12	01/89->	886	/
336			27			12	06/74->11/90	886	/
518			10			12	01/88->	886	/
834				SLANZI DVA 1550		12	01/77->12/84	886	/
900 RS			18			12	04/90->	886	/
926, RS DT				SLANZI 1030		12	01/78->	886	/
938			15			12	09/88->04/90	886	/
945 RS/DT			28			12	04/90->	886	/
1040				SLANZI 1750		12	06/79->12/88	886	/
3445			28			12	10/88->	886	/
TRANSCAR 25 RS			16			12	11/90->	886	/
TRANSCAR 30 RS			20			12	11/90->	886	/
TRANSCAR 35			19			12	03/91->	886	/
UNIVERSAL 224			18			12	08/70->12/79	886	/

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
HANOMAG									
	44C		85	D943B			02/80->	1550TF	/
C	55C		108	D962B			02/80->	1550TF	/
	66C		157	D963A 1 TURBO			02/80->	1550TF	/
D	600 D		108	D962K			02/80->	1550TF	/
	700 D		150	D963A 1 TURBO			04/80->	1550TF	/
F	20,25,30,35	1.8	50	D301 E2	4	12		448	/
	44 C		85	D943B			02/80->	1550TF	/
	44 C		92	D943A 1 TURBO			08/82->	1550TF	/
	55 C		108	D962B			02/80->	1550TF	/
L	55 C		118	D963B			01/81->	1550TF	/
	600 C		108	D962K			02/80->08/81	1550TF	/
	600 D		108	D962K			02/80->	1550TF	/
	66 C		157	D963A 1 TURBO			02/80->	1550TF	/
	77 C		193	D963A 2 TURBO			02/80->	1550TF	/
MARKANT 9 LO				D 351 MLA		12		448	/
	300, 301			D 301 R2		12	5/67->8/69	448	/
PERFEKT	400, 401			D 301 R1		12	5/67->8/69	448	/
	400E			D 301 R4		12	5/67->8/69	448	/
HATZ (D)									
2L 30S, Z, C, 2L 40	12V				2	12		886	/
2 M 40	24V				2	12		886	/
3L 30S, Z, C, 3L 40	12V				3	12		886	/
3 M 40	24V				3	12		886	/
4L 30 S, Z, C, K, 4L 40	12V				4	12		886	/
HINDUSTAN MOTORS									
AMBASSADOR	1.5	1.5	40			12	1/78->	474	/
CONTESSA	1,5	1.5	40			12	1/84->	474	/
PORTER	1.5	1.5				12	1/80->	474	/
TREKKER	1.5	1.5				12	1/77->	474	/
RANGER									
	3B	3.4	70	3B(K-HV48)	4	24	79->82	/	**406PHD**
	3B	3.4	70	3B(N-HV40/42/47/48)	4	24	83->	/	**406PHD**
RANGER	B	3.0	60	B(HV10/11,K-HV10/11/12/17)	4	24	78->82	/	**406PHD**
	B	3.0	60	B(N-HV10/11/12/13/15/99)	4	24	83-> 7/88	/	**406PHD**
	DG	2.5	45	DG(HV23/25,K-HV23/25)	4	12	78-> 9/80	463	**411PHD**
HOLDER GMBH (D)									
A 10						12		886	/
A 30				VK2		12		886	/
A 40				6001-2		12		886	/
A 45,A 55, A 55F				VD3		12		886	/
A 50				60001-3		12		886	/
A 60 TURBO, A 60 F				6001-4		12		886	/
A 60, A 60 F				601-3		12		886	/
A 60, A 60 F				60001-3		12		886	/
B 10 (D500)						12		886	/
C 40				6001-2		12		886	/
C 50,C 60,C 500				6001-14		12		886	/
ED 10						12		886	/
ED II						12		886	/
P 60				VK2		12		886	/

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
HONDA									
ACCORD	2.0TDi	**2.0**	77	20TN2	4	12	5/95->	609PH	**609PHD**
	1,7 DI, DTI	**1.7**	55/75	4EE2	4	12	02->	/	**638PHD**
CIVIC	2.0 D	**2.0**	63	20T2R	4	12	10/97 ->	609PH	**609PHD**
	2.0 TDI	**2.0**	77	20TN2	4	12	1/98 ->02/01	609PH	**609PHD**
CONCERTO	TD	**1.8**	64	XUD 7 TE	4	12	10/94->2/95	366PH	**366PHD**
P100 PICK-UP	TD	**1.8**		D18T	4	12	5/89->1/94	603PH	**603PHD**
HUERLIMANN									
H 360				H-1103/5		12	01/80->	886	**/**
HUMMER									
HUMMER	6,5 D	**6.5**	125	GM	8	12		454	**/**
	6,5 TD	**6.5**	143	GM	8	12		454	**/**
HYUNDAI									
ACCENT	1,5 CRD-i	**1.5**	60	D3-EA	3	12	04/02->	/	**648PHD**
	2,0 CR DI	**2.0**	83	4DEA	4	12	04/01->	**/**	**648PHD**
ELANTRA	2,0 CR DI	**2,0**	83	4DEA	4	12	04/01->	/	**648PHD**
	2.5 TD	**2.5**	78-106	4D56	4	12	01/99->	476	**476PHD**
GALLOPER	2,5 Tci	**2.5**	77		4	12	08/98->	476	**476PHD**
	2,7 D	**2.7**	76		4	12	1/99->	476	**476PHD**
GETZ	1,5 CRD-i	**1.5**	60	D3-EA	3	12	03/03->	/	**648PHD**
	2,5 D	**2.5**	54	4D56 NA	4	12	2/93 ->	459	**459PHD**
H-1	2,5 D	**2.5**	57	D4BX	4	12	9/94 ->	459	**459PHD**
	2,5 D	**2.5**	59	T1NA	4	12	7/94 ->	459	**459PHD**
H-100	2,5 D	**2.5**	55	D4BA-D4BX		12	07/93->12/94	459	**459PHD**
	2,5 D	**2.5**	57	D4BB		12	12/94->03/00	459	**459PHD**
MATRIX	1,5 CRD-i	**1.5**	60	D3EA	3	12	10/01->	/	**648PHD**
SATELLITE	2.5 TD	**2.5**	59	D4BF	4	12	10/97->	459	**459PHD**
SANTA FE	2,0 CR DI	**2.0**	85	4DEA	4	12	08/01->	/	**648PHD**
	2,0 CR DI 4x4	**2.0**	83	4DEA	4	12	04/01->	/	**648PHD**
STAREX	2,5 TD	**2.5**	59		4	12	06/97->	345	**459PHD**
TRAJET	2,0 CR DI	**2.0**	83	4DEA	4	12	04/01->	/	**648PHD**
I.M.R									
TRACTORS						12	68->	1520TS	**/**
I.M.T									
TRACTORS						12	68->	1520TS	**/**
						12	68->	1520TS	**/**
IH									
3944, 3945 YUMBO			45	KHD-F4L912		12	01/73->12/86	1540TF	**/**
3960, 3961 YUMBO			77	KHD-F6L912		12	07/73->12/86	1540TF	**/**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
INNOCENTI									
3-CYLINDER	D			CL-001	3	12		404	**411PHD**
ELBA	1.7 D	**1.7**	42	146 B 2.000	4	12	08/91->12/96	359	**366PHD**
MINI	990D	**1.0**	27	DAIHATSU CL10		12		404	**411PHD**
INTERNATIONAL									
125	B, B2			D239		12	70->81	1507TS	**/**
	C			D239		12	70	1507TS	**/**
2400				D179		12	71->77	1507TS	**/**
2500				D239		12	71->77	1507TS	**/**
3400				D179		12	71->75	1507TS	**/**
3500 LOADER/350OGD				D239		12	73->	1507TS	**/**
454	GD			D179		12	70->	1507TS	**/**
454/2454/3400-A				D179		12	70->	1507TS	**/**
474				D206		12	73->74	1507TS	**/**
544	HS			D239		12	70->77	1507TS	**/**
574				D239		12	70->77	1507TS	**/**
ENGINE		**6.9**			8	12	83->86	418	**/**
		6.9			8	12	87->	416	**/**
		7.3			8	12	88->93	416	**/**
ISEKI									
MITS.-KYOTO IND. ENG.				12,13,14		12		340	**328PHD**
				K2A(S),2B,2C		12		340	**328PHD**
				K3,K4		12		328	**328PHD**
				K3A,3B,3C,3D,3E,3F,3H,3M		12		340	**328PHD**
				K4A,4B,4C,4D,4E,4F		12		340	**328PHD**
				KE55,80,85,95,130		12		328	**328PHD**
				KE 70,70L,75,75L		12		328	**328PHD**
				KE 130,135		12		458	**/**
ISUZU									
117 COUPE				C223(K-PAD30)	4	12	12/79->5/81	319	**339PHD**
ASKA	4FC1			4FC1(N-JJ510)	4	12		319	**339PHD**
BIG HORN	C223			C223(N-UBS52)	4	12	9/81->7/90	319	**339PHD**
	C223 TURBO			C223(N-UBS52)	4	12	9/81->7/87	319	**339PHD**
	4JB1 TURBO			4JB1T(Q-UBS55...,S-UBS55FM/CK)	4	12	8/90->7/92	386	**386PHD**
BUS	D500			BY30	6	24	70->71	/	**387PHD**
CAMPO	2,2 D	**2.2**	39	C223	4	12	01/83->12/90	339	**339PHD**
ELF 150	C190			C190(KAD40/41/50/51)	4	12	70->9/77	331	**339PHD**
	C190			C190(KAD41/51,K-KAD41/51)	4	12	10/77->10/79	321	**339PHD**
	C190			C190(K-KAD41/52,N-KAD41.51)	4	12	11/79->6/84	319	**339PHD**
	C240			C240(KAD42/52,N/K-KAD42/52)	4	12	11/79->6/84	118	**339PHD**
	C240			C240(KAD42/52,N/K-KAD42/52)	4	12	11/79->6/84	319	**339PHD**
	C240			C240(KAD42/52,K-KAD42/52)	4	12	78->10/79	321	**339PHD**
	C240			C240(KAD42/52,K-KAD42/52)	4	24	78->10/79	/	**653PHD**
	4JA1,4JB1,4JB1T.			4JA1,4JB1,4JB1 T.(P/S-NHR5...)	4	12	7/84->	386	**386PHD**
ELF 250	C240			C240(K-TLD23/43/53,N-TLD23)	4	12	2/80->6/84	319	**339PHD**
	C240			C240(TLD13/23/33/43/53/63)	4	12	70->9/77	331	**339PHD**
	C240			C240(K-TLD23/43/53,N-TLD23)	4	12	2/80->6/84	118	**339PHD**
	C240			C240(TLD23,K-TLD63)	4	12	10/77->1/80	321	**339PHD**
	C240			C240(TLD13/23/33/43/53/63)	4	24	70->9/77	/	**653PHD**
	C240			C240(TLD23,K-TLD63)	4	24	10/77->1/80	/	**653PHD**
	4BA1			4BA1(K-KT24,K-TLD...,N-TLD...)	4	12	2/80->6/84	120	**339PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
ISUZU									
	4BA1			4BA1(TLD24/34/44/54/64)	4	24	72->9/78	/	**653PHD**
	4BC1			4BC1(K-KT15/25/35,K-TLD...)	4	12	10/79->6/81	120	**339PHD**
ELF 250	4BC2			4BC2	4	24	7/81->6/84	/	**387PHD**
	4BJ1-2			4BJ1-2(P-WKR55)	4	12	3/85->	386	**386PHD**
	4JA1,4JB1			4JA1,4JB1	4	12	7/84->	386	**386PHD**
	C330			C330(KS10.20)	4	24	70->72	/	**653PHD**
ELF 350	4BB1			4BB1(KS11/21/31/41)	4	24	73->79	/	**387PHD**
	4BD1			4BD1(K-KS/N-KS/P-KS 22/32)	4	24	80->6/84	/	**387PHD**
ELF MYPACK	C240			C240(KUD20)	4	12	72->79	331	**339PHD**
FARGO	4FB1			4FB1(K-WFR50)	4	12	1/81->6/82	319	**339PHD**
	4FC1			4FC1(K-WFR51,N-WFR51)	4	12	1/81->6/82	319	**339PHD**
	C190			C190(KBD20/25/40)	4	12	78->9/79	331	**339PHD**
FASTER	C190			C190(K/N-KBD / KBD 21/26/41)	4	12	10/79->	319	**339PHD**
	C223			C223(N-KBD22/42/47)	4	12	8/87->	339	**339PHD**
FASTER	C223			C223(N-KBD22/27/42/47)	4	12	4/83->7/87	319	**339PHD**
	4JB1 TURBO			4JB1T(S-TFR55F/H,S-TFS55F/S/HD)	4	12	1/90->	386	**386PHD**
	4EC1	**1.5**	37	4EC1(Q-JT600)	4	12	12/88->	339	**339PHD**
	4EC1 TURBO	**1.5**	49	4EC1T(N-JT600)	4	12	10/85->12/88	302	**316PHD**
FF GEMINI	4EC1 TURBO	**1.5**	49	4EC1T(Q-JT600)	4	12	12/88->	316	**316PHD**
	4FB1			4FB1(K-PFD60)	4	12	10/79->9/81	319	**339PHD**
	4FB1 TURBO			4FB1T(K-PFD60)	4	12	10/79->9/81	319	**339PHD**
FLORIAN	C190			C190(PAD30,K-PAD30/30V)	4	12	10/77->2/80	321	**339PHD**
	C190			C190(K-PAD30/30V)	4	12	3/80->3/83	319	**339PHD**
FOWARD	D500			TR20 ,30 ,35 ,40 ,50 ,60 ,70 , 85	6	24	70->72	/	**387PHD**
JOURNEY	D500			BK30	6	24	70->72	/	**387PHD**
	4EC1	**1.5**	37	4EC1(Q-JT600)	4	12	12/88->	339	**339PHD**
	4EC1 TURBO	**1.5**	49	4EC1T(N-JT600)	4	12	10/85->12/88	302	**316PHD**
GEMINI	4EC1 TURBO	**1.5**	49	4EC1T(Q-JT600)	4	12	12/88->	316	**316PHD**
	4FB1			4FB1(K-PFD60)	4	12	10/79->9/81	319	**339PHD**
	4FB1 TURBO			4FB1T(K-PFD60)	4	12	10/79->9/81	319	**339PHD**
	C223			C223(N-UFR52G)	4	12	8/87->	339	**339PHD**
HIPACK	C223			C223(N-UFR52G)	4	12	1/83->7/87	319	**339PHD**
	C223 TURBO			C223T(N-UFR52G)	4	12	1/83->7/87	319	**339PHD**
I-MARK	4FB1			4FB1	4	12	81->82	319	**339PHD**
KB PICK-UP	C190			C190	4	12	10/79->	319	**339PHD**
	C223			C223	4	12	10/79->	319	**339PHD**
	2,0 TD	**2.0**	51	4FC1T	4	12	01/89->	302	**316PHD**
MIDI	2,2 D	**2.2**	45	4FD1	4	12	01/89->	302	**316PHD**
	2,4 D	**2.4**	56	4FG1T	4	12	01/94->	302	**316PHD**
MU	4JB1 TURBO			4JB1T(Q-UCS55)	4	12	8/90->	386	**386PHD**
NQR	75 QUINTALI					24		/	**387PHD**
NPR	69			3100 ASPIRATO		12		316	**316PHD**
NPR	TD	**2.8**		4JB1		12		386	**386PHD**
	C190			C190(K/N-KBD / KBD 21/26/41)	4	12	10/79->	319	**339PHD**
	C190			C190(KBD20/25/40)	4	12	78->9/79	331	**339PHD**
RODEO	C223			C223(N-KBD22/42/47)	4	12	8/87->	339	**339PHD**
	C223			C223(N-KBD22/27/42/47)	4	12	4/83->7/87	319	**339PHD**
	4JB1 TURBO			4JB1T(S-TFR55F/H,S-TFS55F/S/HD)	4	12	1/90->	386	**386PHD**
	C223	**2.3**	39/53	C223(N-UBS52)	4	12	8/87->7/90	339	**339PHD**
	C223	**2.3**	39/53	C223(N-UBS52)	4	12	9/81->7/87	319	**339PHD**
TROOPER	C223 TURBO	**2.3**	53/72	C223T(N-UBS52)	4	12	9/81->7/87	319	**339PHD**
	4JB1 TURBO	**2.8**	71/97	4JB1T(Q-UBS55...,S-UBS55FM/CK)	4	12	8/90->7/92	386	**386PHD**
	3,0 DTI	**3.0**	118/160	4JX1	4	12	07/98->	/	**339PHD**
	C223			C223(N-UFR52G)	4	12	8/87->	339	**339PHD**
VAN	C223			C223(N-UFR52G)	4	12	1/83->7/87	319	**339PHD**
	C223 TURBO			C223T(N-UFR52G)	4	12	1/83->7/87	319	**339PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
IVECO									
75-9A	9A		64	KHD-F4L913		12	01/83->02/86	1540TF	**/**
	9A		64	KHD-F4L913		12	01/83->02/86	1540TF	**/**
	13A		96	KHD-F6L913		12	01/83->02/86	1540TF	**/**
80	13A		96-99	BF6L913T Vollkaps.		12	01/83->	1540TF	**/**
	13A		96-99	KHD-BF6L913T		12	01/83->	1540TF	**/**
	16A		118-124	KHD-BF6L913		12	01/83->	1540TF	**/**
	9A		64	KHD-F4L913		12	01/83->02/86	1540TF	**/**
90	13A		96	KHD-F6L913		12	01/83->02/86	1540TF	**/**
	13A		96-99	KHD-BF6L913T		12	01/83->	1540TF	**/**
	13A		96	KHD-F6L913		12	01/83->02/86	1540TF	**/**
110	13A		96-99	KHD-BF6L913T		12	01/83->	1540TF	**/**
	16A		118-124	KHD-BF6L913		12	01/83->	1540TF	**/**
	13ANW		96	KHD-F6L913		24	01/83->02/86	1560TF	**/**
120	16ANW		118	KHD-BF6L913		24	01/83->11/89	1560TF	**/**
	17ANW		124	KHD-BF6L913/U		24	07/89->	1560TF	**/**
130	13A		96	KHD-F6L913		12	01/83->02/86	1540TF	**/**
	13A		96-99	KHD-BF6L913T		12	01/83->	1540TF	**/**
150	16AN		118	KHD-BF6L913		24	01/83->11/89	1560TF	**/**
	16A		118-124	KHD-BF6L913		12	01/83->	1540TF	**/**
160	17AN		124	KHD-BF6L913/U		24	07/89->	1560TF	**/**
	AR		124	KHD-BF6L913		24	01/83->12/84	1560TF	**/**
	25AH		188	KHD-F8L413F		24	07/83->06/86	1550TF	**/**
190	25AN		188	KHD-F8L413F		24	07/83->02/86	1550TF	**/**
	32AH		235	KHD-F10L413F		24	01/83->12/85	1550TF	**/**
260	32AH		235	KHD-F10L413F		24	01/83->12/85	1550TF	**/**
	25AH		188	KHD-F8L413F		24	07/83->02/85	1550TF	**/**
330	32ANW		235	KHD-F10L413F		24	07/83->06/87	1550TF	**/**
	36AH		265	KHD-BF10L413F		24	07/83->06/85	1550TF	**/**
	D 30/35/40/48	**2.4**	53	Sofim 8140.61.200	4	12	4/78->6/89	376	**366PHD**
DAILY	2,8 D	**2.8**	64	8140,63	6	12	6/98->	615PH	**615PHD**
	2,8 TDI	**2.8**	90	8140.43	6	12	6/97->	1580TF	**/**
GRINTA	D 30/35/40/48	**2.4**	53	Sofim 8140.61.200	4	12	4/78->6/89	376	**366PHD**
TRUCKS						12		1503TS	**/**
						24		2530TS	**/**
JOHN DEERE-LANZ									
2840 TRACTOR				6329DL12	6	12	74->	1507TS	**/**
3030 TRACTOR				6329DL14	6	12	74->	1507TS	**/**
3030 TRACTOR				6329DZ01	6	12	74->	1507TS	**/**
3130 TRACTOR				6329DL13	6	12	74->	1507TS	**/**
MB955 CKD COMBINE				6359DZ01	6	12	74->	1507TS	**/**
MB955 COMBINE				6359DZ02	6	12	74->	1507TS	**/**
				6329DZ02	6	12	74->	1507TS	**/**
MB955/630 COMBINE				6329DZ03	6	12	74->	1507TS	**/**
				6329TZ01	6	12	74->	1507TS	**/**
MB965/975 COMBINE				6359TZ03	6	12	74->	1507TS	**/**
MB975 COMBINE				6359TZ01	6	12	74->	1507TS	**/**
MB985 COMBINE				6359TZ02	6	12	74->	1507TS	**/**
TRACTORS				2010 C, D	4	12		391	**/**
JAGUAR									
X-TYPE	2,0 D (CF1)	**2.0**	96		4	12	07/03->	/	**636PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
KHD									
2003			44	F4L912H		12	09/74->05/80	1540TF	/
5206			37	F3L912		12	09/74->06/80	1540TF	/
6206			43	F4L912		12	09/74->06/80	1540TF	/
6806			49	F4L912		12	09/74->06/80	1540TF	/
7206			51	F4L912		12	09/74->06/80	1540TF	/
8006			58	F6L912		12	05/70->02/78	1540TF	/
10006			73	F6L912		12	05/70->02/78	1540TF	/
13006			88	BF6L912		12	05/72->02/78	1540TF	/
INTRAC 2002			37	F3L912		12	01/73->12/76	1540TF	/
	75 D 6 FL			FL 712	6	12		446	/
MAGIRUS	120,126			FL 613	6	12	65->	441	/
	135			FL 413	6	12		395	/
	135			FL 413 W	6	12		396	/
MERCUR	120			FL 613	6	12	65->	441	/
	90 L			FL 514	2-6	12	1/66->	441	/
	90 L			FL 614	2-12	12	1/66->	441	/
	90 L			FL 714	6-12	12	1/66->	441	/
	90 L			FL/AL 514	3-6	12	5/64->	440	/
SIRIUS	90 L			FM 716	3-12	12	1/66->	441	/
	90 L			FL 712	6	12		446	/
	D40,D40S			FL 712	1->6	12	3/60->	446	/
	D4005, D4505			FL 712	1->6	12	3/60->	446	/
				A-L 714	6->12	12	1/61->12/78	441	/
				BA-L 714	12	12	1/64->12/78	441	/
				BF-L 714	12	12	1/64->12/78	441	/
				SA-L 714	8-12	12	1/64->12/78	441	/
STATIONARY ENGINE				SBF-L 714	12	12	1/64->12/78	441	/
			188	F10L413F		24	07/76-	1550TF	/
				F10L413F		24	10/67-12/80	1550TF	/
			103-130	F6L413FR		24	12/88-	1550TF	/
				F6L413FR		24	06/71-12/80	1550TF	/
			174	F8L413F		24	07/76-	1550TF	/
			147	F8L413F		24	12/67-12/80	1550TF	/
KIA									
BESTA	2.2 D	2.2	48-52	HW	4	12	10/92->	465	**465PHD**
FRONTIER	3,0 D	3,0	66	JT-Motor W3, NB9		12	01/98->	305	**305PHD**
PREGIO	2,7 D	2.7	60		4	12	10/97->	/	**682PHD**
	3,0 D	3,0	66	JT-Motor W3, NB9		12	01/98->	305	**305PHD**
RETONA	2,0 TD	2.0	61		4	12	06/99->	317	**317PHD**
SPORTAGE	2,0 TD	2,0	61	MAZDA RE,RFTCI	4	12	10/97->	/	**682PHD**
KOMATSU									
				4D 130, 4D 50	6	24		329	/
BULLDOZER				4D 115	4	24		264	/
POWER SHOVEL				4D 105	4	24		/	**406PHD**
				4D 92	4	24		/	**406PHD**
FORK LIFT				4D 95S	4	24		329	/
IHC/PAYLOADER						12		1501TS	/

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
KUBOTA									
COMBINE				RX 3350 (V1200 N-TC)		12		473	**/**
				3602 DT (V 1902) 4 cyl	4	12		301	**398PHD**
				B 1902 DT (DM 1102) 3 cyl	3	12		471	**306PHD**
				B 5100 (Z 500-14) 2 cyl	2	12		471	**306PHD**
				B 6100 (D 650 A) 3 cyl	3	12		471	**306PHD**
				B 7001 (D 750) 3 cyl	3	12		471	**306PHD**
				B 7100 (D 750) 3 cyl	3	12		471	**306PHD**
				KH-11H (D 1302) 3 cyl	3	12		301	**398PHD**
				KH-12FD (D 1402) 3 cyl	3	12		301	**398PHD**
				KH-20 (VT 1502) 4 cyl	4	12		301	**398PHD**
				KH-8 (D 850) 3 cyl	3	12		471	**306PHD**
				L 2002 (D 1302) 3 cyl	3	12		471	**306PHD**
				L 1802 (D 1102) 3 cyl	3	12		471	**306PHD**
				L 2202 (D 1402-L) 3 cyl	3	12		471	**306PHD**
				L 235 (D 1102-A) 3 cyl	3	12		301	**398PHD**
				L 2402 (D 1402) 3 cyl	3	12		471	**306PHD**
ENGINE				*L 2601 (V 1502-L) 4 cyl*	*4*	*12*		*301*	***398PHD***
				L 2602 (VT 1502) 4 cyl	4	12		471	**306PHD**
				L 275 (D 1302-A) 3 cyl	3	12		471	**306PHD**
				L 2802 (V 1502) 4 cyl	4	12		471	**306PHD**
				L 305 (D 1302-DA) 3 cyl	3	12		301	**398PHD**
				L 3202 (V 1502) 4 cyl	4	12		471	**306PHD**
				L 4202 (VT 1502) 4 cyl	4	12		301	**398PHD**
				L 4202 DT (VT 1502) 4 cyl	4	12		471	**306PHD**
				M 4950 (S 2800) 6 cyl	6	12		471	**306PHD**
				NX 1100 (ZB 500) 2 cyl	2	12		471	**306PHD**
				NX 1300 (ZB 600) 2 cyl	2	12		471	**306PHD**
				NX 1500 (D 850C) 3 cyl	3	12		471	**306PHD**
				NX 1800 (D 850) 2 cyl	2	12		471	**306PHD**
				RC-15 FD (D 750 K1) 3 cyl	3	12		471	**306PHD**
				RC-20 (ZB 500 C-1K) 2 cyl	2	12		471	**306PHD**
				RC-20 FD (D 1402) 3 cyl	3	12		301	**398PHD**
				RC-25 (ZB 600 C-1K) 2 cyl	2	12		471	**306PHD**
				RC-8 FD (Z 500 K1) 2 cyl	2	12		471	**306PHD**
LADA									
ALEKO	D	**1.8**	44	RTE,RTS	4	12	8/90 ->	378	**603PHD**
	1.9 4x4	**1.9**	47	XUD9L	4	12	5/84 ->	359	**366PHD**
NIVA	1,9 D	**1.9**	47	XUD9A	4	12	01/93->	359	**366PHD**
	1,9 D	**1.9**	55	XUD9SD	4	12	01/99->	366PH	**366PHD**
SAGONA	1.5 D	**1.5**	43	TUD 5	4	12	10/95->	403PH	**403PHD**
SAMARA	1.5 D	**1.5**	40-42	TUD 5	4	12	1/95->	403PH	**403PHD**
LAMBORGHINI									
-5 BOSSO			48	916.4W		12	10/84->05/86	1540TF	**/**
-80 . DT. N			54	1000.4W		12	06/86->	1540TF	**/**
1256 DT				Same1056P		12	06/78->07/81	1540TF	**/**
1256 DT			93	1056P		12	06/78->07/81	1540TF	**/**
1306 TURBO DT			92	916.6WT		12	01/84->	1540TF	**/**
1356 DT			99	H1106-12		12	04/82->12/84	1540TF	**/**
1556			114	H1106-15		12	04/82->12/84	1540TF	**/**
2 RM			70	916.6W1		12	01/84->	1540TF	**/**
2 RM			81	916.6W2		12	01/84->	1540TF	**/**
483 L. N			35	983L		12	04/83->06/87	1540TF	**/**
653			46	105.3P		12	03/82->12/85	1540TF	**/**
653 DT			46	105.3P		12	01/79->12/85	1540TF	**/**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
LAMBORGHINI									
654. DT				Same984P		12	07/77->12/81	1540TF	/
674-5			48	916.4W		12	10/84->05/86	1540TF	/
683 DT-RM			44	105.3P		12	06/82->12/86	1540TF	/
683 L. N			45	105.3P		12	04/83->06/87	1540TF	/
684 DT			49	984P		12	01/82->12/85	1540TF	/
684			51	984P		12	03/82->12/85	1540TF	/
724. F			61	105.4P		12	02/82->05/87	1540TF	/
754			53	105.4P		12	01/82->12/85	1540TF	/
754 DT			53	Same-984P		12	11/76->01/82	1540TF	/
774-5			55	916.4W		12	06/85->05/86	1540TF	/
784 DT			78	1054P		12	01/80->12/85	1540TF	/
854 DT-2RM			60	105.4P		12	11/76->12/85	1540TF	/
916/3W			44			24	01/84->01/87	1560TF	/
			44			12	01/84->01/87	1540TF	/
955 DT-2RM			68	105.5P		12	06/79->12/85	1540TF	/
956 DT			70	916.6W1		12	01/84->	1540TF	/
1056 DT			77	Same-986/3		12	02/77->01/81	1540TF	/
1106 DT			81	916.6W2		12	01/84->	1540TF	/
1156			85	105.6P		12	06/81->12/84	1540TF	/
C	553 LS.N.SL		39	983P		12	06/76->01/84	1540TF	/
DT			48	916.4W		12	10/84->05/86	1540TF	/
R 483			35	983L		12	05/82->01/86	1540TF	/
	653 L.N		46	105.3P		12	06/76->01/84	1540TF	/
LANCIA									
	1.9 TD	1.9	66	835 A 4.000	4	12	3/89->9/94	359	**366PHD**
	1.9 TD	1.9	59		4	12	6/86->6/91	359	**366PHD**
DEDRA	1.9 Eco LE TD	1.9	68	160 D 1.000	4	12	6/93->	368PH	**366PHD**
	1.9 HPE TD	1.9	66	160 D 1.000	4	12	10/94->	368PH	**366PHD**
	1.9 TD Ds LS, LE	1.9	66	160 D 1.000	4	12	10/94->	368PH	**366PHD**
DELTA	1.9 TD	1.9	59	831 D 1000	4	12	6/86-> 6/91	366PH	**366PHD**
	1.9 TD	1.9	66	160 D 1000	4	12	6/86-> 6/91	366PH	**366PHD**
Y	1,3 Multijet Common Rail	1.3	51		4		10/03->	/	**819PHD**
	1,9 JTD	1,9	81	AR 37101	4	12	9/00->	/	**630PHD**
	1,9 JTD	1,9	81	COOLING WATER HEATER	3	12	9/00->	/	**627PHD**
	1.9 JTD	1,9	77	AR 32202, AR 37101	4	12	10/99->	/	**630PHD**
LYBRA	1,9 JTD	1,9	77	COOLING WATER HEATER	3	12	10/99->	/	**627PHD**
	2,4 JTD	2.4	98	839 A 5.000	5	12	10/99->9/00	/	**630PHD**
	2,4 JTD	2,4	98	COOLING WATER HEATER	3	12	10/99->9/00	/	**627PHD**
	2,4 JTD	2.4	98-103	839 A 6.000	5	12	9/00->	/	**630PHD**
	2,4 JTD	2.4	98	COOLING WATER HEATER	3	12	9/00->	/	**627PHD**
	2.4 TD	2.4	91	838 A 3.000	5	12	11/94->5/98	384PH	**384PHD**
	2.4 JTD	2.4	100	AR 34.202	5	12	7/98->10/99	612PH	**612PHD**
KAPPA	2.4 JTD	2.4	100	COOLING WATER HEATER	3	12	7/98->10/99	/	**627PHD**
	2.4 JTD	2.4	100	838 A 8.000	5	12	11/99->	/	**630PHD**
	2.4 JTD	2.4	100	COOLING WATER HEATER	3	12	11/99->	/	**627PHD**
PHEDRA	2,0 JTD	2.0	80	DW10ATED4	4	12	09/02->	617PH	**617PHD**
	2,2 JTD	2.2	94	DW12ATED4	4	12	09/02->	617PH	**617PHD**
PRISMA	1.9 D	1.9	48	831 D...	4	12	6/84->12/89	359	**366PHD**
	1.9 TD	1.9	59	831 D...	4	12	5/85->12/89	359	**366PHD**
THEMA	2.5 TD	2.5	74-85	8144.91.2200 ,8144.97.2200 ,8144.97	4	12	11/84->	369	**366PHD**
THESIS	2,4 JTD	2.4	110	841C,000	5	12	04/02->	/	**630PHD**
	2,4 JTD	2.4	129		5	12	05/03->	/	**851PHD**
	1.9 TD	1.9	68	XUD 9TE	4	12	4/95->	366PH	**366PHD**
ZETA	2.0 JTD	2.0	80	RHZ	4	12	9/99 ->09/02	617PH	**617PHD**
	2.1 TD	2.1	80	XUD 11 ATE	4	12	5/96->	366PH	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
LANDINI									
ENGINE				MOT TL 16C, TL 20N, R 4500, R 8000		12		1501TS	/
TL 16N R 7000						12		1501TS	/
LAVERDA									
Gloria Combine				Perkins 6-354		12	01/68->	1501TS	/
M 120, M 120 R				Perkins 6-354		12	01/72->12/75	1501TS	/
LELY									
Dechentreeter Hay Loader				Perkins 4-107 (TA)		12	01/69->	1501TS	/
LEYLAND									
200	2,0D	**2.0**		PERKINS PRIMA 65	4	12	3/89->	366PH	**366PHD**
245, 245 S				2,5l Diesel Engine		12	01/73->	1504TS	/
400	2,5D, TD	**2.5**	71	XD3, XD3T	4	12	1/87->	366PH	**366PHD**
Boxer 14 Ton Truck				Perkins 6-354		12	01/69->12/70	1501TS	/
Boxer BX	1425 Truck			Perkins 6-354		12	01/69->	1501TS	/
	1600 Truck			Perkins 6-354		12		1501TS	/
	1600 Truck			Perkins 6-354		24	01/74->12/77	2570TS	/
	18 TF Truck			Perkins 6-354		12	25569	1501TS	/
Boxer BX	19 TA Truck			Perkins 6-354		12	01/70->	1501TS	/
Boxer BX	20 TF Truck			Perkins 6-354		12	01/70->	1501TS	/
FK Range Tractor Shovel				Perkins 6-354		12	01/69->12/76	1501TS	/
Ford Truck				Perkins 4-107		12	01/69->12/72	1501TS	/
				Perkins 4-108		12	01/74->	1501TS	/
				Perkins 4-203		12	01/69->12/70	1501TS	/
				Perkins 6-354		12	01/69->	1501TS	/
FAIRWAY	2,7TD	**2.7**		TD27, TD27T	4	12	93->	313	**313PHD**
GC 4 Road Roller				Perkins 4-236		12	01/69->12/76	1501TS	/
GN Range				Perkins 4-236		12	01/77->	1501TS	/
GN Road Roller				Perkins 4-236		12	01/69->12/76	1501TS	/
GR Road Roller				Perkins 3-152		12	01/69->12/76	1501TS	/
GRY Road Roller				Perkins D3-152		12	01/77->	1504TS	/
GRT Road Roller				Perkins D3-152		12	01/77->	1504TS	/
PR 2 Road Roller				Perkins 4-236		12	01/70->	1501TS	/
PR 15 Road Roller				Perkins 4-236		12	01/77->	1501TS	/
PTR Road Roller				Perkins 4-236		12	01/69->12/76	1501TS	/
READLINE	220, 240, 340 FG, 350					12		427	/
SHERPA	1.5 D VAN	**1.5**			4	12		427	/
SHERPA, EA RANGE	1.8 D	**1.8**		9731	4	12	74-<86	427	/
SHERPA	2,0 D	**2.0**		PERKINS PRIMA 65	4	12	5/86->3/89	366PH	**366PHD**
	2,5 Di VAN	**2.5**			4	12	1/87->	366PH	**366PHD**
SY 4 Dumper				Perkins 4-236		12	01/72->12/76	1504TS	/
SY 5 Dumper				Perkins 4-236		12	01/72->12/76	1504TS	/
SY 6 Dumper				Perkins 4-236		12	01/72->12/76	1504TS	/
SY 7 Dumper				Perkins 4-236		12	01/72->12/76	1504TS	/
TR 3 Road Roller				Perkins 4-236		12	01/69->12/76	1501TS	/
TR Range				Perkins 4-236		12	01/77->	1501TS	/
TS 200 Tractor Shovel				Perkins 6-354		12	01/77->	1504TS	/

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
LIEBHERR									
	901 B		37	KHD-F3L912	12		01/73->12/78	1540TF	/
A 901 B	911		44	KHD-F4L912	12		04/72->12/78	1540TF	/
	921		51	KHD-F4L912	12		04/72->12/78	1540TF	/
	911		44	KHD-F4L912	12		04/72->	1540TF	/
	921		51	KHD-F4L912	12		04/72->	1540TF	/
R 911	961		115	KHD-F6L413V	24		02/73->	1550TF	/
	971		154	KHD-F8L413V	24		02/73->	1550TF	/
	981		118	KHD-BF6L913	24		04/74->	1560TF	/
LINCOLN ELECTRIC									
300 amp. Welding Set				Perkins 4-270 (1)	12		01/70->	1501TS	/
Welding Set				Perkins 4-236	12		01/70->	1501TS	/
				Perkins D3-152	12		01/71->	1501TS	/
LINDER									
B 45 Tractor				Perkins 3-152 (TA)	12		01/69->12/70	1501TS	/
BF 350/450 Tractor				Perkins D3-152	12		01/71->	1501TS	/
BF 550-650 Tractor				Perkins 4-236	12		25934	1501TS	/
Farm Trans-TH 5000 TM 500				Perkins 4-107	12		01/69->12/70	1501TS	/
Tractor				Perkins 4-236 (TA)	12		01/71->	1501TS	/
MAGIRUS-DEUTZ									
130	R 81		96	F6L913	24		10/77->12/79	1560TF	/
192	M 14, M16 FL, FS		141	F6L413F	24		01/79->12/82	1550TF	/
230	SH 110		141-147	F6L413F	24		10/77->04/80	1550TF	/
256	M 19 FL. FLL. FS. FSL		188	F8L413F	24		05/78->07/83	1550TF	/
	M 22 FLL, FSL		188	F8L413F	24		05/78->07/83	1550TF	/
260	L 117 P		188	F8L413F	24		10/77->12/82	1550TF	/
	L 117		154	F8L413F	24		02/78->12/82	1550TF	/
320	M 19 FL. FLL. FS. FSL		235	F10L413F	24		05/78->07/82	1550TF	/
	M 22 FLL, FSL		235	F10L413F	24		05/78->07/82	1550TF	/
			63	F4L913 24V	24		05/76->10/82	1560TF	/
	D 5.2/5.6/6/6.5/7.5 FV		63	F4L913 12V	12		05/76->10/82	1540TF	/
	D 5.2/5.6/6.5/7.5 FK		63	F4L913 12V	12		05/76->10/82	1540TF	/
M90	D 5.2/5.6/6/6.5/7.5 FL		63	F4L913 12V	12		05/76->10/82	1540TF	/
	D 5.2/5.6/6/6.5/7.5 FL		63	F4L913 24V	24		05/76->10/82	1560TF	/
	D 5.2/5.6/6/6.5/7.5 FV		63	F4L913 24V	24		05/76->10/82	1560TF	/
	M 6/7 FK		63	F4L913 12V	12		05/76->12/82	1540TF	/
	M 6/7/8/9 FL		63	F4L913 12V	12		05/76->12/82	1540TF	/
M120	R 80		80	F6L912 24V	24		01/75->09/79	1560TF	/
	D 12/15 K. AK		95	F6L913 24V	24		01/75->12/82	1560TF	/
	D 12/15 K. AK		95	F6L913 12V	12		01/75->12/82	1540TF	/
	D 14/16 FL		95	F6L913 24V	24		01/75->10/82	1560TF	/
	D 14/16 FL		95	F6L913 12V	12		01/75->10/82	1540TF	/
	D 16 FLL		95	F6L913 24V	24		01/75->05/76	1560TF	/
	D 16 FLL		95	F6L913 12V	12		01/75->05/76	1540TF	/
M130	D9/11 FL		95	F6L913 24V	24		01/75->05/76	1560TF	/
	D9/11 FL		95	F6L913 12V	12		01/75->05/76	1540TF	/
	M 8/9 FS		95	F6L913 24V	24		09/75->12/82	1560TF	/
	M 8/9 FS		95	F6L913 12V	12		09/75->12/82	1540TF	/
	M 8/9/11/13 FK		95	F6L913 24V	24		09/75->12/82	1560TF	/
	M 8/9/11/13 FK		95	F6L913 12V	12		09/75->12/82	1540TF	/
	M 8/9/11/13 FL		95	F6L913 24V	24		09/75->12/82	1560TF	/
	M 8/9/11/13 FL		95	F6L913 12V	12		09/75->12/82	1540TF	/
M160	D 11 FS		144	BF6L913 12V	12		01/75->05/76	1540TF	/

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE		Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
MAGIRUS-DEUTZ										
	D 11 FS		144	BF6L913	24V		24	01/75->05/76	1560TF	/
	D 11/16 FL		144	BF6L913	12V		12	01/75->10/82	1540TF	/
	D 11/16 FL		144	BF6L913	24V		24	01/75->10/82	1560TF	/
M160	D 12/15 K. AK		144	BF6L913	12V		12	01/75->12/82	1540TF	/
	D 12/15 K. AK		144	BF6L913	24V		24	01/75->12/82	1560TF	/
	D 16 FLL		144	BF6L913	12V		12	01/75->05/76	1540TF	/
	D 16 FLL		144	BF6L913	24V		24	01/75->05/76	1560TF	/
	M 11/13 FK. FL. FS		144	BF6L913	12V		12	09/75->12/82	1540TF	/
	M 11/13 FK. FL. FS		144	BF6L913	24V		24	09/75->12/82	1560TF	/
	M 14/16			BF6L913	24V		24	01/75->12/82	1560TF	/
M168	M 14/16			BF6L913	24V		24	01/75->12/82	1560TF	/
	D 11/14/16 FL		129	F6L413			24	01/75->10/82	1550TF	/
	D 12/15/17/21 AK		129	F6L413			24	01/75->10/82	1550TF	/
	D 14 FS		129	F6L413			24	01/75->10/82	1550TF	/
	D 15 FK. FAK		129	F6L413			24	01/75->10/82	1550TF	/
M 170	D 15 K		129	F6L413			24	01/75->10/82	1550TF	/
	L/R 100		129	F6L413			24	01/75->09/79	1550TF	/
	L/R 120		129	F6L413			24	01/75->09/77	1550TF	/
	SH 110		129	F6L413			24	01/75->06/78	1550TF	/
	SH 110		169	F8L413			24	01/75->06/78	1550TF	/
	TL/TR 100		129	F6L413			24	01/75->09/79	1550TF	/
	L/R 100		147	F8L413			24	01/75->09/79	1550TF	/
M200	SH 110 U		132	F8L413W			24	01/75->05/78	1550TF	/
	TL/TR 100		147	F8L413			24	01/75->09/79	1550TF	/
	L/R 120		169	F8L413			24	01/75->09/79	1550TF	/
M 230	L117		169	F8L413			24	01/75->04/80	1550TF	/
	TL/TR 120		169	F8L413			24	01/75->09/79	1550TF	/
	D 13/16 FL		170	F8L413			24	01/75->10/82	1550TF	/
	D 13/16/19 FS		170	F8L413			24	01/75->10/82	1550TF	/
M232	D 15 FLL		170	F8L413			24	01/75->10/82	1550TF	/
	D 15/19/22/26 FK. FAK		170	F8L413			24	01/75->10/82	1550TF	/
	D 16/19/22/26 K. AK		170	F8L413			24	01/75->10/82	1550TF	/
	D 19 S		170	F8L413			24	01/75->10/82	1550TF	/
	D 16 FL. FS		188	F8L413F			24	03/77->10/82	1550TF	/
M256	D 16/26 K. AK		188	F8L413F			24	03/77->10/82	1550TF	/
	D 22 FLL		188	F8L413F			24	03/77->10/82	1550TF	/
	D 16 FK. 22/26 FAK		198	F10L413			24	04/76->06/78	1550TF	/
	D 16 S		198	F10L413			24	01/75->06/78	1550TF	/
M270	D 16/22 FL		198	F10L413			24	01/75->06/78	1550TF	/
	D 16/22 FLL. FS. FSL		198	F10L413			24	01/75->06/78	1550TF	/
	D 16/26 K. AK		198	F10L413			24	01/75->06/78	1550TF	/
	D 16/19 S		224	F10L413			24	01/75->12/81	1550TF	/
	D 16/19/22 FL, FS		224	F10L413			24	01/75->10/82	1550TF	/
M310	D 16/19/22/26 FK. FAK		224	F10L413			24	01/75->10/82	1550TF	/
	D 16/19/22/26 K. AK		224	F10L413			24	01/75->12/81	1550TF	/
	D 16/22 FLL. FSL		224	F10L413			24	01/75->10/82	1550TF	/
M340	D 16/22 FL, FLL		329	F12L413			24	01/75->02/77	1550TF	/
	D 22/26 FS, FSL		329	F12L413			24	01/75->02/77	1550TF	/

MAHINDRA									
CJ 3D	2,1-2,5	29-46	PEUGEOT		4	12	4/86->	359	**366PHD**
CJ 4D			PEUGEOT		4	12	4/86->	359	**366PHD**
CJ 340 Classic D	2.1	48	XD 4.90		4	12	93->	359	**366PHD**
CJ 540 D	2.1	48	XD 4.90		4	12	93->	359	**366PHD**
CJ 5D	2.1-2.5	29-46	PEUGEOT		4	12	4/86->	359	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
MAZDA									
121	1.8 D	**1.8**	44	RTJ	4	12	3/96->	601PH	**601PHD**
	1.7 D	**1.7**	41-43	PN 27, PN 46, PN 62	4	12	4/86->2/96	322	**317PHD**
323	1,7 D WAGON	**1.7**	44	PN2,PN26,PN54	4	12	1/86->	322	**317PHD**
	2,0 DiTD	**2,0**	66-74	2,0 DiTD	4	12	09/98->	/	**668PHD**
	2,0	**2,0**	66-74	2,0 DiTD	4	12	09/98->	/	**668PHD**
626	2.0 D	**2.0**	53	RF46	4	12	11/82->6/87	/	**682PHD**
	2.0 D	**2.0**	44	RFB	4	12	7/87->8/89	/	**682PHD**
	2,0 D WAGON , COMPREX	**2.0**	55	RF,RF8	4	12	1/88->3/92	/	**682PHD**
929				S2	4	12	9/80->	347	**317PHD**
	2.2	**2.2**		F2, R2	4	12	8/84->	347	**317PHD**
B	2.2	**2.2**		F2,R2	4	24	8/84->	/	**320PHD**
	2,5 4WD	**2.5**	57			24	9/98->6/99	/	**320PHD**
BONGO VAN	R 2			KF-SK22V, 22T, 22L / KJ-SK22V, 22T	4	12	6/99->	/	**646PHD**
	R 2			KG-SK22V, 22M, 22L	4	12	6/99->	/	**646PHD**
	R2			R2(N-SR2AV/29V,N-SD29T/2AT)	4	12	6/83->	322	**317PHD**
BONGO	RF			RF(N-SRF9W/SSF8V/SEF8T)	4	12	6/83->	322	**317PHD**
	S2			S2(K-BA2S8/8V,K-BA2S9/9V)	4	12	10/79->12/80	317	**317PHD**
	S2			S2(K-BA2S8/8V/8H	4	12	1/81->	317	**317PHD**
	S2			K-BA2S9/9V,N-BA2S8/9)	4	12	1/81->	317	**317PHD**
CAPELLA	RF			RF(N-GCFP,Q/N-GDFP)	4	12	9/83->	322	**317PHD**
COSMO	S2			S2(N-HBPS2)	4	12	10/83->	347	**317PHD**
E	2.2	**2.2**	46	R2	4	12	1/84->2/88	322	**317PHD**
	2,2 R2	**2.2**	46	R207	4	12	1/84->2/88	322	**317PHD**
FAMILIA	BHA7R, 7P			4EE1-T	4	12	10/94->	457	**457PHD**
LUCE	S2			S2(K-LA4SS)	4	12	9/80->9/81	317	**317PHD**
	S2			S2(N-HBPS2)	4	12	10/83->9/86	347	**317PHD**
J80	RF			RF(N-SSF8VF)	4	12	83->	322	**317PHD**
MPV	2,5 TD	**2.5**	85	WL-Turbo	4	12	5/96->	317	**317PHD**
	2.2			HA(K-WVLSF)	4	24	10/80->	/	**320PHD**
PARKWAY	HA			HA(K-WVLSF)	4	24	10/80->	/	**320PHD**
	HA			HA	4	12	10/80->	322	**317PHD**
PREMACY	2,0 TD	**2.0**	66-74		4	12	10/99->	/	**668PHD**
	2.5	**2.5**	52	XA	6	24	10/80->	/	**320PHD**
	2.5	**2.5**	52	XA	6	12	10/80->	322	**317PHD**
T	3	**3.0**	50-66	HA	6	24	10/80->	/	**320PHD**
	3	**3.0**	50-66	HA	6	12	10/80->12/92	322	**317PHD**
	4.1	**4.1**		ZB	6	12	10/80->	322	**317PHD**
	4.1	**4.1**		ZB	6	24	10/80->	/	**320PHD**
TERSTAR	R2			R2(N-GCFPF)	4	12	83->	322	**317PHD**
	HA			HA	4	24	10/80->	/	**320PHD**
	XA			XA(K-WEW051,N-WE5AT/WG5AT)	4	24	10/80->	/	**320PHD**
TITAN	XA			XA(K-WEW051,N-WE5AT/WG5AT)	4	12	10/80->	322	**317PHD**
	ZB			ZB(K-WE X/Y/Z 011N-WE11D/14L/14T/17T)	6	24	10/80->	/	**320PHD**
	HA			HA	4	24	77->79	/	**320PHD**
SPECTRON	RF			RF(N-SSD8WF)	4	12	83->	322	**317PHD**
MENGELE									
HM, HR 1020			38	KHD-F 3 L 912		12	04/72->	1540TF	**/**
HM 1024			51	KHD-F 4L 912		12	02/77->	1540TF	**/**
HM, HR 1030			51	KHD-F 4 L 912		12	04/72->	1540TF	**/**
MERCEDES-BENZ									
	2.0 D MOD.201	**2.0**	53-55	OM 601.911	4	12	2/89->8/93	365	**365PHD**
	2.0 D MOD.201	**2.0**	53-55	OM 601.911	4	12	9/83->1/89	371	**366PHD**
190	2.5 D MOD.201	**2.5**	66-69	OM 602.911	5	12	2/89->5/93	365	**365PHD**
	2.5 D MOD.201	**2.5**	66-69	OM 602.911	5	12	4/85->1/89	371	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
MERCEDES-BENZ									
190	2.5 D TURBO MOD.201	2.5	90-93	0M 602.961	5	12	2/89->5/93	371	**365PHD**
	2.5 D TURBO MOD.201	2.5	90-93	0M 602.961	5	12	2/88->1/89	365	**366PHD**
	2.0 D MOD. 123	2.0	40-44	OM 615.940	4	12	2/76->7/80	450	**/**
	2.0 D MOD. 123	2.0	40-44	OM 615.940	4	12	8/80->11/85	371	**366PHD**
200	2.0 D, TD MOD. 124	2.0	53-55	OM 601.912	4	12	12/84->1/89	365	**366PHD**
	2.0 D, TD MOD. 124	2.0	53-55	OM 601.912	4	12	2/89->6/93	371	**365PHD**
	2.0 D MOD. 115	2.0	40	OM 615.913	4	12	5/69->1/77	450	**/**
	2.0 D	2.0	40	OM 615	4	12	1/71->2/73	450	**/**
206	2.0 DG	2.0	40	OM 615.943	4	12	12/76->7/77	450	**/**
	2.2 DG	2.2	44	OM 615.917/937/939	4	12	3/73->7/77	450	**/**
	2.2 D MOD. 115	2.2	44	OM 615.912	4	12	5/69->1/77	450	**/**
220	2.2 D MOD. 123	2.2	44-49	OM 615.941	4	12	2/76->3/79	450	**/**
	2.2 220 CDI, T 202	2,2	92	OM 611.960Eng.50 055543->	4	12	12/97->02/01	/	**625PHD**
	2.2 220 CDI, T 203	2,2	105				05/00->	/	**625PHD**
	2.4 D MOD. 115	2.4	48	OM 616.916	4	12	7/73->1/77	450	**/**
	2.4 D, TD MOD. 123	2.4	48	OM 616.912	4	12	2/76->7/80	450	**/**
	2.4 D, TD MOD. 123	2.4	48	OM 616.912	4	12	8/80->11/85	371	**366PHD**
240	2.4 GD MOD. 460	2.4	53	OM 616.936	4	12	8/80->89	371	**366PHD**
	2.5 GD MOD. 460	2.5	62-69	OM 602.930	5	12	9/87->1/89	371	**366PHD**
	2.5 GD MOD. 460	2.5	62-69	OM 602.930	5	12	2/89->8/92	365	**365PHD**
	3.0 D 3.0 MOD. 115	3.0	59	OM 617.910	5	12	8/74->11/76	450	**/**
	2.5 D MOD. 124	2.5	66-69	OM 602.912	5	12	2/89->6/93	365	**365PHD**
250	2.5 D MOD. 124	2.5	66-69	OM 602.912	5	12	4/85->1/89	371	**366PHD**
	2.5 D TURBO MOD.124	2.5	93	OM 602.962	5	12	2/89->6/93	365	**365PHD**
	2.5 D TURBO MOD.124	2.5	93	OM 602.962	5	12	2/85->6/89	371	**366PHD**
290	2.5 GD MOD.463	2.5	69	OM 602.931	5	12	4/92->	365	**365PHD**
	3.0 D MOD. 123	3.0	80-83	OM 603.912	6	12	12/84->1/89	450	**/**
	3.0 D MOD. 123, 124, 463	3.0	80-83	OM 603.912	6	12	2/89->6/93	365	**365PHD**
	3.0 D TURBO MOD. 123	3.0	65	OM 617.912	5	12	2/76->7/80	450	**/**
	3.0 D TURBO MOD. 123	3.0	65	OM 617.912	5	12	8/80->11/85	371	**366PHD**
	3.0 D 4MATIC MOD.124	3.0	80-83	OM 603.913	6	12	2/89->8/92	365	**365PHD**
	3.0 D 4MATIC MOD.124	3.0	80-83	OM 603.913	6	12	9/86->1/89	371	**366PHD**
300	3.0 D, TD MOD. 124	3.0	105-108	OM 603.960	6	12	2/89->6/93	365	**365PHD**
	3.0 D, TD MOD. 124	3.0	105-108	OM 603.960	6	12	9/86-1/89	371	**366PHD**
	3.0 D, TD 4MATIC MOD.124	3.0	105	OM 603.963	6	12	2/89->6/93	365	**365PHD**
	3.0 D, TD 4MATIC MOD.124	3.0	105	OM 603.963	6	12	9/86-1/89	371	**366PHD**
	3.0 TD MOD.124	3.0	80-83	OM 603.912	6	12	9/86->1/89	371	**366PHD**
	3.0 TD TURBO MOD.123	3.0	92	OM 617.952	5	12	10/80->11/85	371	**366PHD**
	3.0 GD MOD.460	3.0	65	OM 617.931	5	12	12/79->7/80	450	**/**
	3.0 GD MOD.460	3.0	65	OM 617.931	5	12	12/79->8/90	371	**366PHD**
	3.5 SD MOD.140	3.5	100-110	OM 603.971	6	12	7/91->5/93	365	**365PHD**
	2.0 D	2.0	40	OM 615	4	12	1/71->2/73	450	**/**
306	2.0 DG	2.0	40	OM 615.943	4	12	12/76->7/77	450	**/**
	2.2 DG	2.2	44	OM 615.917/937/939	4	12	3/73->7/77	450	**/**
350	3.5 GD TURBO MOD.463	3.5	100	OM 603.972	6	12	9/91->7/93	365	**365PHD**
406	2.2 DG	2.2	44	OM615.910	4	12	5/69->12/74	450	**/**
A CLASS	A 1,7 160 CDI (Mod.168)	1.7	44	OM 668.941	4	12	1/98->	/	**621PHD**
	A 1.7 170 CDI (Mod.168)	1.7	66-70	OM 668.940	4	12	1/98->	/	**621PHD**
C 180	1.8 D MOD.202	1.8	65	OM 604.	4	12	10/98->5/00	432PH	**432PHD**
	2.0 D MOD.202	2.0	55	OM 601.913	4	12	3/93->8/95	365	**365PHD**
	2.0 D	2.0	65	OM 604.915	4	12	9/96->	432PH	**432PHD**
C 200	2.2 CDI MOD.202	2,2	75	OM 611.960	4	12	3/98->05/00	/	**625PHD**
	2.2 CDI MOD.203	2,2	85	OM 611.960	4	12	9/00->	/	**625PHD**
	2,2 CDI (W203)	2.2	90	OM 646,962	4	12	04/03->	/	**625PHD**
	2.2 D	2.2	70	OM 604.910	4	12	2/95->00	432PH	**432PHD**
C 220	2.2 D	2.2	55	OM 611.913, OM 611.915	4	12	7/96->5/00	432PH	**432PHD**
	2.2 D MOD.202	2.2	70	OM 604.910	4	12	8/93->1/95	431PH	**431PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
MERCEDES-BENZ									
C 220	2.2 CDI, MOD.202	2.2	92	OM 611.960	4	12	12/97->4/00	/	**625PHD**
	2.2 CDI, MOD.203	2.2	105	OM 611.962	4	12	5/00->	/	**625PHD**
	2.5 D MOD.202	2.5	83	OM 605.910	5	12	5/93->1/95	431PH	**431PHD**
C 250	2.5 D MOD.202	2.5	83	OM 605.910	5	12	2/95->8/95	432PH	**432PHD**
	2.5 TD MOD.202	2.5	110	OM 605.960	5	12	5/96->	432PH	**432PHD**
C 270	2.7 CDI, MOD.203	2,7	125	OM 612.962	5	12	12/00->	/	**625PHD**
CLK 270 CDI	2,7 CDI MOD.209	2.7	125		5	12	10/02->	/	**625PHD**
	2.0 D MOD.124	2.0	55	OM 601.912	4	12	7/93->6/95	365	**365PHD**
	2.0 D MOD.210	2.0	65	OM 604.917	4	12	1/96->	432PH	**432PHD**
E 200	2.2 CDI MOD.210	2.2	75-85	OM 611.961	4	12	6/98->	/	**625PHD**
	2.2 CDI MOD.210	2.2	105	OM 611.962	4	12	6/99->	/	**625PHD**
	2,2 CDI (W211)	2.2	75		4	12	07/02->	/	**625PHD**
	2,2 CDI (W211)	2.2	90		4	12	07/02->	/	**625PHD**
	2.2 D MOD.210	2.2	70	OM 604.912	4	12	6/95->	431PH	**431PHD**
E 220	2.2 D MOD.210	2,2	55	OM 611.913 WITH IMMOBILIZER	4	12	5/96->	432PH	**432PHD**
	2.2 CDI MOD.210	2,2	92	OM 611.961	4	12	7/98->6/99	/	**625PHD**
	2,2 CDI (W211)	2.2	110	OM 646,961	4	12	03/02->	/	**625PHD**
	2.5 D MOD.210	2.5	83	OM 605.912 WITH IMMOBILIZER	5	12	6/95->	432PH	**432PHD**
	2.5 D, TD MOD.124	2.5	83	OM 605.911	5	12	7/93->5/96	431PH	**431PHD**
E 250	2.5 TD MOD.124	2.5	93	OM 602.962	5	12	7/93->6/95	365	**365PHD**
	2.5 TD MOD.124	2.5	83	OM 605.911 WITH IMMOBILIZER	5	12	7/93->5/96	432PH	**432PHD**
	2.5 TD MOD.210	2.5	110	OM 605.962 WITH IMMOBILIZER	5	12	5/96->	432PH	**432PHD**
E 270	2.7 CDI MOD.210	2,7	105	OM 612.962	5	12	6/99->	/	**625PHD**
	2,7 CDI (W211)	2.7	130	OM 647,961	5	12	03/02->	/	**625PHD**
E 290	2.9 TD MOD.210	2.9	95	OM 602.982	5	12	1/96->	610PH	**610PHD**
	3.0 D MOD.210	3.0	100	OM 616.912 WITH IMMOBILIZER	6	12	3/95->	432PH	**432PHD**
	3.0 D, TD MOD.124	3.0	100	OM 606.910	6	12	7/93->6/95	431PH	**431PHD**
E 300	3.0 TD MOD.124	3.0	108	OM 603.960	6	12	7/93->5/95	365	**365PHD**
	3.0 TD MOD.124	3.0	100	OM 606.910 WITH IMMOBILIZER	6	12	6/95->6/96	432PH	**432PHD**
	3.0 TD MOD.210	3.0	130	OM 606 962 WITH IMMOBILIZER	6	12	12/96->	432PH	**432PHD**
E 320	3.2 CDI MOD.210	3,2	145	OM 613.961	6	12	6/99->	/	**625PHD**
	3,2 CDI (W211)	3.2	150		6	12	11/02->	/	**625PHD**
E 400	4,0 CDI (W211)	4.0	191		8	12	02/03->	/	**625PHD**
G 290	2.9 D MOD.461	2.9	72	OM 602.942/947	5	12	8/93->10/94	365	**365PHD**
	2.9 TD MOD.461	2.9	88	OM 602.983	5	12	7/97->	365	**365PHD**
G 300	3.0 D MOD.463	3.0	83	OM 603.931	6	12	93->10/94	365	**365PHD**
G 350	3.5 TD MOD.463	3.5	100	OM 603.972	6	12	8/93->6/94	365	**365PHD**
ML 270	2.7 CDI MOD.163	2,7	120	OM 612.963	5	12	2/98->	/	**625PHD**
V 200	2.0 CDI	2.0	75	OM 611.960	4	12	6/99->	/	**625PHD**
V 220	2.2 CDI	2,2	90	OM 611.980	4	12	6/99->	/	**625PHD**
V 230	2.3 TD	2.3	72	OM 601.970	4	12	4/96->	365	**365PHD**
VANEO	1,7 CDI	1.7	55-67	OM 668	4	12	1/02->	/	**621PHD**
VARIO	2.9 512 D	2.9	90	OM 602.984	5	12	9/96->	610PH	**610PHD**
	2.9 612 D, 812D	2.9	90	OM 602.984/985	5	12	9/96->	610PH	**610PHD**
VIANO	2,0 CDI	2.0	80		4	12	09/03->	/	**625PHD**
	2,2 CDI	2.2	110		4	12	09/03->	/	**625PHD**
	2.2 108 CDI	2,2	60	OM 611A	4	12	03/99->	/	**625PHD**
	2.3 108 D	2.3	58	OM 601.942	4	12	11/95->	365	**365PHD**
	2.3 110 TD	2.3	72	OM 601.970	4	12	11/95->	365	**365PHD**
VITO	2.2 110 CDI	2,2	75	OM 611.960	4	12	4/98->	/	**625PHD**
	2.2 112 CDI	2,2	90	OM 611.980	4	12	03/99->	/	**625PHD**
	2,0 CDI	2.0	80		4	12	09/03->	/	**625PHD**
	2,2 CDI	2.2	110		4	12	09/03->	/	**625PHD**
	2.0 D	2.0	40	OM 615.944	4	12	8/77->1/89	450	**/**
207 D	2.4 D	2.4	48	OM 616.917/934	4	12	5/77->8/82	450	**/**
	2.4 D	2.4	53	OM 616.937/939	4	12	9/82->1/89	371	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
MERCEDES-BENZ									
208 D	2.3 D	2.3	58-60	OM 601.940	4	12	10/88->6/95	365	**365PHD**
209 D	3.0 D	3.0	65	OM 617.913	5	12	9/82->1/89	371	**366PHD**
210 D	2.9 D	2.9	70-72	OM 602.940	5	12	10/88->6/95	365	**365PHD**
	2.0 D	2.0	40	OM 615.944	4	12	8/77->10/85	450	**/**
307 D	2.4 D	2.4	48	OM 616.934	4	12	5/77->8/82	450	**/**
	2.4 D	2.4	53	OM 616.937/939	4	12	9/82->1/89	371	**366PHD**
308 D	2.3 D	2.3	58-60	OM 601.940	4	12	10/88->	365	**365PHD**
309 D	3.0 D	3.0	65	OM 617.913	5	12	9/82->1/89	371	**366PHD**
310 D	2.9 D	2.9	70-72	OM 602.940	5	12	10/88->6/95	365	**365PHD**
407 D	2.4 D	2.4	48-53	OM 616.910	4	12	1/75->8/82	450	**/**
	2.4 D	2.4	53	OM 616.910	4	12	9/82->12/88	371	**366PHD**
408 D	2.3 D	2.3	58-60	OM 601.940	4	12	11/88->6/95	365	**365PHD**
409 D	3.0 D	3.0	65	OM 617.913	5	12	4/82->1/89	371	**366PHD**
410 D	2.9 D	2.9	70-72	OM 602.940	5	12	11/88->6/95	365	**365PHD**
507 D	2.4 D	2.4	53	OM 616.914	4	12	4/86->4/89	371	**366PHD**
508 D	2.3 D	2.3	58	OM 601.941	4	12	3/89->	365	**365PHD**
	2.4 100 D	2.4	53-56	OM 616.963	4	12	9/87->1/89	371	**366PHD**
MB	2.4 100 D	2.4	53-56	OM 616.963	4	12	2/89->8/91	365	**365PHD**
	2.4 180	2.4	56	OM 616.963-01	4	12	2/89->	365	**365PHD**
	2.4 180	2.4	56	OM 616.963-01	4	12	1/87->1/89	371	**366PHD**
O 100	2.9 CITY	2.9	70	OM 602.940	5	12	1/94->	365	**365PHD**
O 309	2.4 D	2.4	48	OM 616.910	4	12	1/75->8/82	450	**/**
	2.4 D	2.4	53	OM 616.937/939	4	12	9/82->2/89	371	**366PHD**
S 300	3.0 TD MOD.140	3.0	130	OM 606.961	6	12	6/96->9/98	432PH	**432PHD**
S 320 CDI	3.2 CDI MOD.220	3.2	145	OM 613.960	6	12	6/99->	/	**625PHD**
S 350	3.5 TD MOD.140	3.5	110	OM 603.971	6	12	6/93->6/96	365	**365PHD**
S 400	4.0 CDI MOD.220	4.0	184	OM 628.960	8	12	01/00->	/	**625PHD**
	2.2 208 CDI	2.2	60	OM 611.987	4	12	04/00->	/	**625PHD**
	2.3 208 D	2.3	58	OM 601.943	4	12	2/95->	365	**365PHD**
	2.9 210 D	2.9	75	OM 602.986	5	12	1/97->	610PH	**610PHD**
	2.2 211 CDI	2.2	80	OM 611.981	4	12	04/00->	/	**625PHD**
	2.9 212D	2,9	90	OM 602.980 DE LA ->Eng.000136	5	12	2/95->3/00	371	**366PHD**
	2.9 212D	2,9	90	OM 602.980 DE LA Eng.000137->	5	12	2/95->3/00	610PH	**610PHD**
	2.9 212 D	2.9	90	OM 602.980 DE LA ->Eng.009849	5	12	2/95->3/00	371	**366PHD**
	2.9 212D	2,9	90	OM 602.980 DE LA Eng.009850->	5	12	2/95->3/00	610PH	**610PHD**
	2.2 213 CDI	2.2	95	OM 611.960	4	12	04/00->	/	**625PHD**
	2.7 216 CDI	2,7	115	OM 612.981	5	12	04/00	/	**625PHD**
	2.2 308 CDI	2.2	60	OM 611.987	4	12	04/00->	/	**625PHD**
	2.3 308 D	2.3	58	OM 601.943	4	12	4/95->	365	**365PHD**
	2.9 310 D	2.9	75	OM 602.986	5	12	1/97->	610PH	**610PHD**
	2.2 311 CDI	2.2	80	OM 611.981	4	12	04/00->	/	**625PHD**
	2.9 312 D	2,9	90	OM 602.980 DE LA ->Eng.000136	5	12	2/95->3/00	371	**366PHD**
SPRINTER	2.9 312 D	2,9	90	OM 602.980 DE LA Eng.000137->	5	12	2/95->3/00	610PH	**610PHD**
	2.9 312 D	2.9	90	OM 602.980 DE LA ->Eng.009849	5	12	2/95->3/00	371	**366PHD**
	2.9 312 D	2,9	90	OM 602.980 DE LA Eng.009850->	5	12	2/96->	610PH	**610PHD**
	2.2 313 CDI	2.2	95	OM 611.960	4	12	04/00->	/	**625PHD**
	2.7 316 CDI	2,7	115	OM 612.981	5	12	04/00	/	**625PHD**
	2.2 408 CDI	2.2	60	OM 611.987	4	12	04/00->	/	**625PHD**
	2.3 408 D	2.3	58	OM 601.943	4	12	2/95->	365	**365PHD**
	2.9 410 D	2.9	75	OM 602.986	5	12	1/97->	610PH	**610PHD**
	2.2 411 CDI	2.2	80	OM 611.981	4	12	04/00->	/	**625PHD**
	2.9 412D	2,9	90	OM 602.980 DE LA ->Eng.000136	5	12	2/95->3/00	365	**366PHD**
	2.9 412D	2,9	90	OM 602.980 DE LA Eng.000137->	5	12	2/95->3/00	610PH	**610PHD**
	2.9 412 D	2.9	90	OM 602.980 DE LA ->Eng.009849	5	12	2/95->3/00	365	**366PHD**
	2.9 412D	2,9	90	OM 602.980 DE LA Eng.009850->	5	12	2/95->3/00	610PH	**610PHD**
	2.2 413 CDI	2.2	95	OM 611.981	4	12	04/00->	/	**625PHD**
	2.7 416 CDI	2,7	115	OM 612.981	5	12	04/00->01/01	/	**625PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
MERCEDES-BENZ									
SPRINTER	2.7 616 CDI	**2,7**	115	OM 612.981	5	12	02/01->	/	**625PHD**
	1.8 U 34	**1.8**	25	OM 636.914	4	12	1/65->9/75	486	**/**
	2.5 U 52	**2.5**	38	OM 616.915	4	12	5/69->12/76	450	**/**
	2.5 U 60	**2.5**	44	OM 616.930	4	12	5/69->12/76	450	**/**
UNIMOG	3.0 U 90	**3.0**	65	OM 602.941	5	12	11/92->	365	**365PHD**
	2.9 100 L	**2.9**	71	OM 602.948	5	12	11/92->	365	**365PHD**
	2.0 421	**2.0**	34-40	OM 621...	4	12	1/66->9/75	486	**/**
	2.4 600/650	**2.4**	38-44	OM 616...	4	12	1/88->	371	**366PHD**
MINI									
MINI	1,4 D 8V	**1.4**	55	D-4D(Toyota same as Yaris)	4	12	06/03->	/	**660PHD**
MITSUBISHI									
ENGINE	4D32,33,34			Mitsubishi 4D32,33,34		24		/	**658PHD**
	4DQ			T 720, T 722	4	12	->67	301	**398PHD**
				4DQ	4	12	->67	301	**398PHD**
				4DR1	4	12	68->70	357	**/**
				4DR5	4	12	71->9/85	357	**/**
				4DR5	4	12	10/85->	360	**/**
CANTER				4DR5	4	24	12/73->4/83	358	**/**
				4DR51	4	24	1/81->4/83	358	**/**
	4DR5			K-FB300	4	12	10/85->	360	**/**
				4D30	4	24	78->4/83	/	**356PHD**
	3.3 D	**3.3**	85-86	4D310AT	4	24	1/86->5/96	/	**658PHD**
	3.3 D	**3.3**	66	4D310AZ	4	24	1/86->9/96	/	**658PHD**
	FB501A,B FB511A,B			4M40	4	12	11/93->	/	**657PHD**
CARISMA	1.9 TD	**1.9**	66	F8Q	4	12	10/96->	600PH	**600PHD**
	1.8 D	**1.8**		4D65 (C14A)	4	12	11/83->11/84	335	**459PHD**
COLT LANCER	1,8 GL D	**1.8**	44	4D65 (BJ86-92)	4	12	09/86->04/88	335	**459PHD**
	2.0 TD	**2,0**		4D68T	4	12	12/93->4/96	476	**476PHD**
	4D55			N-LO380PV/GV/GW	4	12	11/82->	335	**459PHD**
	4D56			N-PO5V/P25V	4	12	6/86->	335	**459PHD**
	4D56			NOT QGS SYSTEM	4	12	11/82->	335	**459PHD**
	4D56			L-039P	4	12	6/93->3/94	479	**317PHD**
DELICA	KD-PA5V, KC-PB5V, PD5V			4D56T		12	9/97->	476	**476PHD**
	KB-P05V, 05T, 15V, 25V			4D56T		12	9/97->	476	**476PHD**
	KC-P15V, 15T, 25T, 45V			4D56T		12	9/97->	476	**476PHD**
	KD-P05W, 25W, 35W			4D56T		12	9/97->	476	**476PHD**
	KD-PA5W, PB5W, PC5W			4D56T		12	9/97->	476	**476PHD**
	KD-PE8W, PD8W, PF8W			4M40T	4	12	5/94->	/	**657PHD**
DELICA VAN	R 2			KG-SK22MM / KJ-SK22VM	4	12	6/99->	/	**646PHD**
ENGINE	MM35			Mitsubishi BOBCAT		12		328	**328PHD**
ETERNA	1.8 D, TD	**1.8**		4D65, 4D65T	4	12	4/84->7/87	335	**459PHD**
	4D55	**2.3**		4D55,T (K-A167) NOT QGS SYSTEM	4	12	5/80->11/82	335	**459PHD**
	1,8 TD	**1.8**	60	4D65T	4	12	06/84->12/87	341	**459PHD**
GALANT	2.3 D, SIGMA, TD	**2.3**	62-70	4D55, 4D55T	4	12	1/80->5/84	341	**459PHD**
	4D65T	**2.3**		4D65T QGS	4	12	6/84->6/85	341	**459PHD**
	2,0 D TURBO	**2,0**	66	4D68	4	12	12/93->02/00	476	**476PHD**
GALANT SIGMA	2.3 D	**2.3**	62-70	4D55	4	12	01/80 - 05/84	335	**459PHD**
	2.3 TD	**2.3**	62-70	4D55 T	4	12	01/80 - 05/84	335	**459PHD**
GALANT WAGON	2,0 D TURBO (EA)	**2,0**	66	4D68	6	12	10/96->02/00	476	**476PHD**
GALLOPER	2.5 D	**2.5**	73-98	D4BH	4	12	8/98->	476	**476PHD**
JEEP				4DR5	4	24	11/82->	358	**/**
				6DR5	6	24	71->	358	**/**
JUPITER				KE31/36	4-6	12		**/**	**656PHD**
				KE41/61	4-6	12	65->67	148	**/**
				KE65	6	24	67->70	144	**/**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
MITSUBISHI									
L 200	2,3 D	**2.3**	49	4D55	4	12	4/83->10/86	335	**459PHD**
	2,5D (K0T-K3T)	**2.5**	51	4D56 SOHC	4	12	06/94->08/96	476	**476PHD**
	2.5 D	**2.5**	62	4D56	4	12	12/87->	341	**459PHD**
L 300	2.5 TD	**2.5**	64	4D56T SOHC	4	12	06/94->	476	**476PHD**
	2.5 D	**2.3**	49	4D55	4	12	5/83->10/86	335	**459PHD**
L400	2,5TD	**2.5**	73	4D56T	4	12	12/94->	476	**476PHD**
LIBERO	KACB8V, CD8V			4D68T		12	9/97->	476	**476PHD**
	KD-CB8W, CD8W			4D68T		12	9/97->	476	**476PHD**
LANCER	KD-CK8A, CM8A			4D68T		12	9/97->	476	**476PHD**
	2,0 D (CB/CD)	**2,0**	50-54	4D68	4	12	12/93->04/96	476	**476PHD**
LANCER STATION W.	2,0 D	**2,0**	50-54	4D68 SOHC	4	12	12/93->05/96	476	**476PHD**
MIRAGE	X-CK8A, CM8A			4D68T		12	9/97->	476	**476PHD**
MONTERO	2.5 TD	**2,5**		4D55T, 4D65T	4	12	83->88	335	**459PHD**
	2,3 D	**2.3**	62	4D55	4	12	12/82->06/83	341	**459PHD**
	2,3 TD	**2.3**	62	4D55T	4	12	12/82->04/86	341	**459PHD**
PAJERO	2,3 TD INTERCOOLER	**2.3**	64	4D55	4	12	09/84->04/86	341	**459PHD**
	2,5 D TURBO (L)	**2.5**	62	4D56T	4	12	05/86->10/93	341	**459PHD**
	2,5 TD INTERCOOLER (V)	**2.5**	62	4D56T	4	12	08/93->09/99	479	**317PHD**
PAJERO II	2,8 TD V26W, V26WG, KC	**2,8**	92	4M40	4	12	06/94->04/00	/	**657PHD**
	2,8 TD V46W, KD-V46WG	**2,8**	92	4M40	4	12	06/94->04/00	/	**657PHD**
PAJERO III	3,2 DI-D (V60)	**3,2**	118	4M41DI	4	12	04/10->10/01	/	**641PHD**
	3,2 DI-D (V60)	**3,2**	121	4M41DI	4	12	10/01->	/	**641PHD**
PAJERO SPORT	2,5 TD	**2.5**	73		4	12	11/98->07/02	476	**476PHD**
				6DR5	6	24	73->1/83	358	**/**
ROSA				4DR5	4	12	70->79	357	**/**
				KE31	4	24	70->71	146	**/**
				4D30	4	24	79->1/83	/	**356PHD**
	2.3 D	**2,3**		4D55 QGS	4	12	5/82->11/82	459	**459PHD**
	2.3 TD	**2.3**		4D55 T	4	12	11/82->	459	**459PHD**
SHOGUN	2,5 TD	**2.5**	73	4D56T	4	12	11/93->1/98	476	**476PHD**
	2,8 TD	**2.8**		4M40	4	12	4/98->08/00	/	**657PHD**
	3,2 TD	**3.2**		4M41DI	4	12	02/99->	/	**641PHD**
SPACE GEAR	2,5 TD	**2.5**	73	4D56T	4	12	12/94->	476	**476PHD**
SPACE RUNNER	2,0 D	**2.0**	60	4D68	4	12	06/93->	476	**476PHD**
SPACE WAGON	1.8 TD	**1.8**		4D65T	4	12	89->	459	**459PHD**
	2,0 D TURBO 4WD (N)	**2.0**	60	4D68 SOHC	4	12	06/93->	476	**476PHD**
SIGMA	4D55T TURBO			4D55T QGS		12	80->84	341	**459PHD**
	2,3 4D55	**2.3**		4D55		12	5/80->5/84	335	**459PHD**
SPACE RUNNER	2,0 TD	**2.0**				12		341	**459PHD**
SPACE WAGON	1,8 TD	**1.8**		4D65		12	89->	341	**459PHD**
STRADA	KC-K74T			4D68T		12	9/97->	476	**476PHD**
MOTORIBERICA									
ALL MODELS						12		1501TS	**/**
PATROL D260	2.8 D	**2.8**		A428	4	12	->8/88	359	**366PHD**
SANTANA TD	1.6 D	**1.6**		CY	4	12	84/87	348PH	**348PHD**
SERENA D	2.0 D	**2.0**		GX3	4	12	11/94->	305	**305PHD**
NEW HOLLAND									
	SP818			Perkins 6-354 (1)		12	01/68-12/70	1501TS	**/**
	1530			Perkins 6-354		12	01/70-	1501TS	**/**
	1540-1550			Perkins 6-372		12	01/71-	1501TS	**/**
CLAYSON	1545			Perkins 6-372 (TA)		12	01/71-12/75	1501TS	**/**
	1550			Perkins T6-354.1		12	01/71-12/73	1501TS	**/**
	M140, M133, M135			Perkins 6-354		12	01/69-	1501TS	**/**
	M89			Perkins 4-236		12	01/68-	1501TS	**/**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
NISSAN									
	2.0 D	2.0		SD20	4	12	6/79->	303	**306PHD**
	2.0 D	2.0		SD20	4	12	68->5/77	304	**306PHD**
	2.0 D	2.0		SD20	4	12	6/77->6/79	309	**306PHD**
220 C	2.2 D	2.2		SD22	4	12	6/77->	309	**306PHD**
	2.3 D	2.3		SD23	4	12	84->	311	**306PHD**
	2.8 D	2.8		LD28	6	12	11/79->6/82	353	**350PHD**
	2.8 D	2.8		LD28 QGS TYPE2	6	12	6/82->	350	**350PHD**
	2.0 D	2.0		SD20	4	12	6/79->	303	**306PHD**
	2.0 D	2.0		SD20	4	12	6/77->10/77	309	**306PHD**
	2.2 D	2.2		SD22	4	12	6/79->	303	**306PHD**
	2.2 D	2.2		SD22	4	12	6/77->10/77	309	**306PHD**
280 C	2.8 D	2.8		LD28	6	12	11/79->6/82	353	**350PHD**
	2.8 D	2.8		QGS TYPE2 LD 28	6	12	6/82->	350	**350PHD**
	2.0 D	2.0		SD20	4	12	10/77->6/79	310	**306PHD**
	2.2 D	2.2		SD22	4	12	10/77->6/79	310	**306PHD**
	2.0 D	2.0		SD20	4	12	68->5/77	304	**306PHD**
	2.8 D	2.8		QGS TYPE1 LD 28	6	12	6/82->	349	**350PHD**
300 C	2.8 D	2.8		QGS TYPE1, 2 LD 28	6	12	6/82->	350	**350PHD**
	2.0 D	2.0		LD20 QGS TYPE1	4	12	1/81->	349	**350PHD**
	2.0 D	2.0		LD20/20T	4	12	87->	305	**305PHD**
819	2.0 D	2.0		LD20/20T	4	12	5/80->12/81	353	**350PHD**
	2.0 D	2.0		LD207T QGS TYPE1	4	12	1/81->	349	**350PHD**
	2.8 D	2.8		LD28	6	12	6/80->8/81	353	**350PHD**
	2.8 D	2.8		LD28 QGS TYPE1	6	12	8/81->	349	**350PHD**
	2.0 D	2.0		LD20 QGS TYPE1	4	12	1/81->	349	**350PHD**
	2.0 D	2.0		LD20/20T	4	12	5/80->12/81	353	**350PHD**
910	2.0 D	2.0		LD20/20T	4	12	87->	305	**305PHD**
	2.0 D	2.0		LD207T QGS TYPE1	4	12	1/81->	349	**350PHD**
	2.8 D	2.8		LD28	6	12	6/80->8/81	353	**350PHD**
	2.8 D	2.8		LD28 QGS TYPE1	6	12	8/81->	349	**350PHD**
	1,5 dCi	1.5	60		4	12	01/03->	/	**628PHD**
ALMERA	2,0 D (N15)	2.0	55	CD20 OHC	4	12	07/95->04/99	315PH	**315PHD**
	2,2 di	2,2	81	YD22DDT	4	12	03/00->	/	**643PHD**
ALMERA TINO	2,2 di	2,2	84	YD22DDTi	4	12	08/00->	/	**643PHD**
B 11	1.7 D	1.7		CD17	4	12	86->	305	**305PHD**
	1.7 D	1.7		CD17 QGS TYPE1, 2	4	12	10/82->	324	**324PHD**
BASSARA	2.5	2.5			4	12		/	**643PHD**
	2,0 D (T12, T72)	2.0	47-49	LD20	4	12	12/85->02/90	305	**305PHD**
BLUEBIRD	2.0 D	2.0	60	LD20 QGS TYPE1	4	12	1/81->	349	**350PHD**
	2.8 D	2.8		LD28	6	12	6/80->8/81	353	**350PHD**
	2.8 D	2.8		LD28 QGS TYPE1	6	12	8/81->	349	**350PHD**
BROUGHAM	2.3 D	2.3		TD23	4	12	93->	345	**459PHD**
	2.2 D	2.2		SD22	4	12	8/66->9/67	166	**/**
	2.2 D	2.2		SD22	4	12	10/67->12/72	304	**306PHD**
CABALL	3.0 D	3.0		ED30	4	24	10/76->11/77	382	**379PHD**
	3.0 D	3.0		ED30	4	12	1/73->5/80	168	**382PHD**
	3.0 D	3.0		ED30	4	12	6/80->12/81	311	**306PHD**
	3.3 D	3.3		ED33	4	24	6/80->12/81	/	**379PHD**
	2.2 D	2.2		SD22	4	12	1/76->	304	**306PHD**
CABSTAR	2.2 D	2.2		SD22	4	24	11/77->1/82	/	**312PHD**
	2.3D	2.3		TD23	4	12	87->	345	**459PHD**
	2.5 D	2.5		TD25	4	12	10/87->	345	**459PHD**
	2.7 D	2.7		TD27	4	12	10/87->	345	**459PHD**
				SD20/22	4	12	->65	160	**/**
				SD20/22	4	12	68->6/83	304	**306PHD**
CEDRIC				SD20/22	4	12	66->67	166	**/**
	2.3 D	2.3		SD23	4	12	84->	304	**306PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
NISSAN									
	2.3 D		2.3	TD23	4	12	9/86->	345	**459PHD**
CEDRIC	2.8 D		2.8	LD 28	4	12	11/79->6/82	307	**350PHD**
	2.8 D		2.8	LD 28 QGS TYPE1, 2	4	12	6/82->6/85	350	**350PHD**
CHERRY	1.7 D		1.7	CD 17 QGS TYPE1, 2	4	12	10/82->	324	**324PHD**
	2.2 D		2.2	SD22	4	12	9/71->	304	**306PHD**
	3.0 D		3.0	ED30 12V	4	12	2/73->5/80	168	**382PHD**
CIVILIAN	3.0 D		3.0	ED30 24V	4	24	10/76->	/	**379PHD**
	3.3 D		3.3	ED33 24V	4	24	6/80->3/88	/	**379PHD**
	3.5 D		3.5	ED35	4	24	6/90->	/	**379PHD**
	4.2 D		4.2	TD42	4	24	5/88->	/	**346PHD**
	2.2 D		2.2	SD22	4	12	10/67->12/72	304	**306PHD**
	2.2 D		2.2	SD22	4	12	8/66->9/67	166	**/**
CLIPPER	3.0 D		3.0	ED30	4	12	6/80->12/81	311	**306PHD**
	3.0 D		3.0	ED30	4	24	10/76->11/77	382	**379PHD**
	3.0 D		3.0	ED30	4	12	1/73->5/80	168	**382PHD**
	3.3 D		3.3	ED33	4	24	6/80->12/81	/	**379PHD**
DELICA VAN				R2 - KJ-SK22VM / KG-SK22MM		12	06/99->	/	**646PHD**
	2.5 D		2.5	TD25	4	12	93->	345	**459PHD**
D21	2.7 D		2.7	TD27	4	12	93->	345	**459PHD**
	2.7 D		2.7	TD27T	4	12	93->	313	**313PHD**
				KH-ATE50 ZD30DDTi (NE Di)		12	08/99->	/	**645PHD**
				KH-ATWE50 ZD30DDTi (NE Di)		12	08/99->	/	**645PHD**
	2.0 D		2.0	LD20T QGS TYPE1	4	12	5/82->	349	**350PHD**
	2.2 D		2.2	SD22	4	24	3/78->	/	**312PHD**
	2.2 D		2.2	SD22	4	12	3/78->	310	**306PHD**
E20	2.3 D		2.3	SD23	4	24	5/82->	300	**/**
	2.3 D		2.3	SD23 QGS TYPE1	4	12	5/82->	311	**306PHD**
	2.3 D		2.3	TD23	4	12		345	**459PHD**
	2.7 D		2.7	TD27	4	12		345	**459PHD**
	2.0 D		2.0	LD20T QGS TYPE1	4	12	5/82->	349	**350PHD**
	2.2 D		2.2	SD22	4	12	3/78->	310	**306PHD**
E23	2.2 D		2.2	SD22	4	24	3/78->	/	**312PHD**
	2.3 D		2.3	SD23	4	24	5/82->	300	**/**
	2.3 D		2.3	SD23 QGS TYPE1	4	12	5/82->	311	**306PHD**
	2.3 D		2.3	TD23	4	12		345	**459PHD**
	2.7 D		2.7	TD27	4	12		345	**459PHD**
	2.0 D		2.0	LD20T QGS TYPE1	4	12	5/82->	349	**350PHD**
	2.2 D		2.2	SD22	4	24	3/78->	/	**312PHD**
	2.2 D		2.2	SD22	4	12	3/78->	310	**306PHD**
E24	2.3 D		2.3	SD23	4	24	5/82->	300	**/**
	2.3 D		2.3	SD23 QGS TYPE1	4	12	5/82->	311	**306PHD**
	2.3 D		2.3	TD23	4	12		345	**459PHD**
	2.5 D		2.5	TD25	4	12	93->	345	**459PHD**
	2.7 D		2.7	TD27	4	12		345	**459PHD**
	2.3 D		2.3	SD23	4	24		300	**/**
	2.3 D		2.3	TD23	4	12		345	**459PHD**
	2.5 D		2.5	SD25	4	12	12/81->	307	**306PHD**
F22	2.5 D		2.5	SD25	4	24		300	**/**
	2.5 D		2.5	TD25	4	12		345	**459PHD**
	2.7 D		2.7	TD27	4	12		345	**459PHD**
	3.3 D		3.3	ED33	6	24		/	**379PHD**
				SD20/22	4	12	68->6/83	304	**306PHD**
				SD20/22	4	12	->65	160	**/**
				SD20/22	4	12	66->67	166	**/**
GLORIA	2.3 D		2.3	SD23	4	12	84->	307	**306PHD**
	2.3 D		2.3	TD23	4	12	9/86->	345	**459PHD**
	2.8 D		2.8	LD 28	6	12	11/79->6/82	353	**350PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
NISSAN									
GLORIA	2.8 D	**2.8**		QGS TYPE1, 2 MOT LD 28	6	12	6/82->6/85	350	**350PHD**
	2.2 D	**2.2**		SD22	4	12	1/76->	304	**306PHD**
	2.2 D	**2.2**		SD22	4	24	11/77->1/82	/	**312PHD**
HOMER	2.3 D	**2.3**		TD23	4	12		345	**459PHD**
	2.5 D	**2.5**		TD25	4	12		345	**459PHD**
	2.7 D	**2.7**		TD27	4	12		345	**459PHD**
INTERSTAR	1,9 dCi	**1.9**		F9Q 772	4	12	07/02->	/	**628PHD**
	2.0 D	**2.0**		LD20	4	12	6/80->9/81	350	**350PHD**
K 180	2.0 D	**2.0**		LD20 QGS TYPE1, 2	4	12	10/81->	350	**350PHD**
	2.8 D	**2.8**		LD28	6	12	6/80->9/81	353	**350PHD**
	2.8 D	**2.8**		LD28 QGS TYPE1, 2	6	12	8/81->	350	**350PHD**
KUBISTAR	1,5 dCi	**1.5**	48		4	12	08/03->	/	**628PHD**
	1,5 dCi	**1.5**	60		4	12	08/03->	/	**628PHD**
	2.0 D	**2.0**		LD20	4	12	11/80->9/81	353	**350PHD**
	2.0 D	**2.0**		SD20	4	12	11/78->11/80	310	**306PHD**
	2.0 D	**2.0**		LD20 QGS TYPE1, 2	4	12	10/81->	350	**350PHD**
LAUREL	2.8 D	**2.8**	62	LD28	6	12	11/80->9/81	353	**350PHD**
	2.8 D	**2.8**		RD28 CYLINDER 1,2,3	3	12	89->	330	**/**
	2.8 D	**2.8**		RD28 CYLINDER 4,5,6	3	12	89->	332	**/**
	2.8 D	**2.8**		LD28 QGS TYPE1, 2	6	12	10/81->	350	**350PHD**
	1,5 D	**1.5**	43	TUD 5	4	12	10/96->	403PH	**403PHD**
MICRA	1.5 JIVE	**1.5**	43	TUD5	4	12	10/96->	403PH	**403PHD**
	1,5 dCi	**1.5**	48-60		4	12	01/03->	/	**628PHD**
	2,5 D21	**2.5**		TD25	4	12	10/81->	345	**459PHD**
PATHFINDER	2,7 D21	**2.7**	96	TD27ETi	4	12	10/81->	345	**459PHD**
	2,7 D21	**2.7**		TD27T	4	12	10/81->	313	**313PHD**
	2.7 TD	**2.7**		TD27 12V	4	12	2/93->	345	**459PHD**
	2.8 TD	**2.8**		RD28T CYLINDER 1,2,3	3	12	89->	330	**/**
	2.8 TD	**2.8**		RD28T CYLINDER 4,5,6	3	12	89->	332	**/**
	2,8 TDTi GRII	**2.8**	95	RD28Ti	6	12	06/97->05/00	/	**657PHD**
	3,0 Dti	**3.0**	116	ZD30DDTi	4	12	05/00->	/	**645PHD**
	3.2 D	**3.2**		SD33 12V	6	12	8/82->	307	**306PHD**
PATROL	3.2 D	**3.2**		SD33 24V	6	24	6/80->8/82	/	**312PHD**
	3.2 TD	**3.2**		SD33T 12V	6	12	82->	306	**306PHD**
	3.2 TD	**3.2**		SD33T 24V	6	24	82->85	300	**/**
	3.2 TD	**3.2**		SD33T 24V	6	24	86->	/	**308PHD**
	4.2 TD	**4.2**	107	TD42T 12V	6	12	87->	345	**459PHD**
	4.2 TD	**4.2**	107	TD42T 24V	6	24	87->	/	**346PHD**
	2.2 D	**2.2**	47	SD22	4	12	11/78->1/82	310	**306PHD**
	2.3 D	**2.3**	51	SD23	4	12	87->	306	**306PHD**
	2.3 D	**2.3**	51	SD23 QGS TYPE1, 2	4	12	84->	307	**306PHD**
	2.5 D	**2.5**	53	SD25	4	12	87->	306	**306PHD**
PICK-UP	2.5 D	**2.5**	53	SD25 QGS TYPE1, 2	4	12	83->86	307	**306PHD**
	2.5 D	**2.5**	59	TD25	4	12	08/87->03/96	345	**459PHD**
	2.7 D	**2.7**	73	TD27	4	12	08/87->02/98	345	**459PHD**
	2.7 D	**2.7**		TD27T	4	12		313	**313PHD**
PRESAGE	2,5 D	**2.5**				12		/	**643PHD**
PRIMASTAR	1,9 dCi 80	**1.9**	60			12	09/02->	/	**628PHD**
	1,9 dCi 100	**1.9**	74			12	09/02->	/	**628PHD**
	2.0 WAGON	**2.0**		CD20	4	12	91->	315PH	**315PHD**
PRIMERA	2,0 D (P10E)	**2.0**	55	CD20	4	12	01/91->06/96	315PH	**315PHD**
	2,0 D (W10)	**2.0**	55	CD20	4	12	07/90->04/96	315PH	**315PHD**
	2,0 TD	**2.0**	66	CD20T	4	12	09/96->	315PH	**315PHD**
	1,7 D (N13)	**1.7**	41	CD17	4	12	06/86->08/90	305	**305PHD**
PULSAR	1,7 D	**1.7**		CD17	4	12	6/88->	305	**305PHD**
	1,7 D	**1.7**		CD17 QGS TYPE1, 2	4	12	10/82->9/85	324	**324PHD**
	1,7 D	**1.7**		CD17 QGS TYPE1, 2	4	12	9/85->5/88	324	**324PHD**
N 12	1,7 D	**1.7**		CD17	4	12	\	305	**305PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
NISSAN									
N 12	1,7 D	**1.7**		CD17 QGS TYPE1, 2	4	12	10/82->	324	**324PHD**
REGULUS				KH-JTR50 ZD30DDTi (NE Di)		12	02/99->	/	**645PHD**
SAFARI				KH-WTY61 ZD30DDTi (NE Di)		12	02/99->	/	**645PHD**
SERENA	2.0 D	**2.0**	49	GX3	4	12	11/94->	305	**305PHD**
	2.3 D(C23M)	**2.3**	49	LD20 OHC	4	12	07/92->09/94	305	**305PHD**
	2.3 D	**2.3**	55	LD23 OHC	4	12	11/94->	313	**313PHD**
	2.5 D	**2,5**			4	12		/	**643PHD**
SENTRA	1.7 D	**1.7**		CD17	4	12	87->	305	**305PHD**
	1.7 D	**1.7**		CD17 QGS TYPE1,2	4	12	10/82->84	324	**324PHD**
SKYLINE	2.0 D	**2.0**		LD20	4	12	6/80->9/81	353	**350PHD**
	2.0 D	**2.0**		LD20 QGS TYPE1, 2	4	12	10/81->	349	**350PHD**
	2.8 D	**2.8**		LD28	6	12	6/80->9/81	353	**350PHD**
	2.8 D	**2.8**		LD28 QGS TYPE1, 2	6	12	8/81->	349	**350PHD**
STANZA	2.0 D	**2.0**		LD20	4	12	86->	305	**305PHD**
SUNNY	1,7 D (Y10, N13)	**1.7**	40	CD17>	4	12	05/86->04/98	305	**305PHD**
	1.7 D	**1.7**		CD17 QGS TYPE1, TYPE2	4	12	10/82->84	324	**324PHD**
	2,0 D (Y10, N14)	**2.0**	55	CD20	4	12	10/90->05/95	315PH	**315PHD**
TERRANO	2.5 TD	**2.5**		TD25	4	12	8/87->	345	**459PHD**
	2.7 TD	**2,7**	62	TD27	4	12	8/87->	345	**459PHD**
	2.7 TD	**2,7**	73	TD27T	4	12	2/89->10/93	313	**313PHD**
TERRANO II	2.7 TD	**2,7**	74	TD27T	4	12	2/93->01/02	/	**644PHD**
	2,7 TDI	**2.7**	92	TD27TI	4	12	5/96->2/97	313	**313PHD**
	2,7 TDI	**2.7**	92	TD27TI		12	10/97->10/99	/	**644PHD**
	3.0 DDTi	**3,0**	113	KH-TR50 ZD30DDTi (NE Di)	4	12	02/99->	/	**645PHD**
TRADE	2,8 D	**2.8**	57	A428II	6	12	3/87->11/89	366PH	**366PHD**
URVAN	2.0 D	**2.0**		LD20T QGS TYPE1	4	12	5/82->	349	**350PHD**
	2.2 D	**2.2**		SD22	4	24	3/78->	/	**312PHD**
	2.2 D	**2.2**		SD22	4	12	3/78->	310	**306PHD**
	2.3 D	**2.3**		SD23	4	24	5/82->	300	**/**
	2.3 D	**2.3**		SD23 QGS TYPE1	4	12	5/82->	311	**306PHD**
	2.3 D	**2.3**		TD23	4	12	3/87->	345	**459PHD**
	2.5 D	**2.5**		TD25	4	12	93->	345	**459PHD**
	2.7 D	**2.7**		TD27	4	12	88->	345	**459PHD**
VANETTE	2.0 D	**2.0**		CD20	4	12	91->	315PH	**315PHD**
	2.0 D	**2.0**		LD20	4	12	6/81->9/82	353	**350PHD**
	2.0 D	**2.0**		LD20	4	12	87->	305	**305PHD**
	2.0 D	**2.0**		QGS TYPE1, 2 LD20	4	12	9/82->86	349	**350PHD**
	2,0 D (C220)	**2.0**	44	LD20II OHV	4	12	04/87->11/94	305	**305PHD**
	2,0 D (C220)	**2.0**	47-49	LD20IIL	4	12	01/91->11/94	305	**305PHD**
	2.0 D	**2.0**	47-49	LD20 OHC	4	12	09/86->03/95	305	**305PHD**
				KF-SK22VN, TN, LN / KJ-SK22VN, TN	4	12	6/99->	/	**646PHD**
				KG-SK22VN, MN, LN	4	12	6/99->	/	**646PHD**
VANETTE CARGO	2,0 D	**2.0**	49	LD20 OHC	4	12	07/92->09/94	305	**305PHD**
WAGON	1.7 D	**1.7**		CD17	4	12	93->	305	**305PHD**
	2.0 D	**2.0**		CD20	4	12	91->	315PH	**315PHD**
OLDSMOBILE									
98		**5.7**		I DIESEL V8 N	8	12	79->83	418	**418PHD**
		5.7		I DIESEL V8 N	8	12	78	418	**418PHD**
CIERA		**4.3**		I DIESEL V6 T,V	6	12	82->83	418	**418PHD**
CUSTOM CRUISER		**5.7**				12	81->84	418	**418PHD**
CUTLASS		**4.3**		I DIESEL V6 T,V	6	12	79->83	418	**418PHD**
		4.3		I DIESEL V8 P	8	12	79	418	**418PHD**
		5.7		I DIESEL V8 N	8	12	79->83	418	**418PHD**
DELTA 88		**5.7**		I DIESEL V8 N	8	12	79->83	418	**418PHD**
		5.7		I DIESEL V8 N	8	12	78	453	**453PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
OLDSMOBILE									
		4,3		4.3L (T) 6 CYL.	6	12	85	454	/
ENGINE		4,3		4.3L (T) 6 CYL.	6	12	82->83	418	**418PHD**
		4,3		4.3L (T,V) 6 CYL.	6	12	84->85	454	/
		5,7		5.7L (N) 8 CYL.	8	12	1/79->6/79	453	**453PHD**
		5,7		5.7L (N) 8 CYL.	8	12	78	453	**453PHD**
ENGINE		5,7		5.7L (N) 8 CYL.	8	12	84->85	454	/
		5,7		5.7L (N) 8 CYL.	8	12	6/79->83	418	**418PHD**
TORONADO		5.7		I DIESEL V8 N	8	12	79->83	418	**418PHD**
OPEL									
AGILA	1,3 CDTI	1.3	51		4		08/03->	/	**819PHD**
ARENA	1.9 D	1.9	44	F8Q-600/606	4	12	3/98->	614PH	**614PHD**
	2.5 D	2.5	55	S8U-758	4	12	3/98->	366PH	**366PHD**
	B 2.0 D	2.0	43-49	20 D (->MOT.90309)	4	12	8/78->10/79	434	**/**
ASCONA	B 2.0 D	2.0	43-49	20 D (MOT. 90310->)	4	12	11/79->8/81	370	**366PHD**
	C 1.6 D	1.6	40	16 D,DA OHC	4	12	3/82->8/88	359	**366PHD**
	1.7 D	1.7	42-44	17 D/DR OHC II	4	12	12/91->8/94	359	**366PHD**
	1.7 DTL	1.7	50	X17 DTL OHC	4	12	9/94->	366PH	**366PHD**
	1,7 DTI 16V	1.7	55/75	4EE2	4	12	02/00->	/	**638PHD**
	1.7 TD	1.7	60	ISUZU TC4 EE1 OHC	4	12	12/91->	316	**316PHD**
ASTRA	1.7 TD	1.7	60	17 DT/TC4 EE1 OHC Mot. 956633->	4	12	12/91->02/98	457	**457PHD**
	1.7 XTD	1.7	60	17 DT/TC4 EE1 OHC Mot. 956633->	4	12	04/96->02/98	457	**457PHD**
	2.0 DI	2.0	60	X20DILC	4	12	98->	/	**622PHD**
	2.0 DTI	2.0	74	Y20DTL,Y20DTH	4	12	8/99->	/	**622PHD**
	2.0 DTI	2.0	60	X 20 DLC	4	12	09/97->02/98	613PH	**613PHD**
	2,2 DTI	2.2	92		4	12	09/02->		**649PHD**
BLITZ	2.1D	2.1	44	PEUGEOT XDP 4/90	4	12	1/69->12/74	440	**/**
CAMPO	2.2 D PICK-UP	2.2	45	ISUZU 4 FD1	4	12	2/96->	339	**339PHD**
	1,7 D	1.7	44	X17D 4EE1 OHC	4	12	04/96->	457	**457PHD**
	1,7 DI	1.7	44	17D 4EE1 OHC	4	12	07/94->	457	**457PHD**
COMBO	1,7 DI	1.7	44	4EE2	4	12	00->	/	**638PHD**
	1,7 Dti	1.7	55	Y17DT	4	12	10/01->	/	**638PHD**
	1,3 CDTi	1.3	51		4		06/03->	/	**819PHD**
	1.5 D	1.5	37	ISUZU 15 D/4 EC1 AAD S.N. 804795->	4	12	90->93	339	**339PHD**
	1.5 D	1.5	37	ISUZU 15 D/4 EC1 AAD S.N.->804794	4	12	87->89	319	**339PHD**
	1.5 D	1.5	37	15D 4EC1 OHC	4	12	03/93->08/00	457	**457PHD**
	1.5 TD	1.5	49	15DT/T4,EC1 AADT OHC S.N->804794	4	12	88->89	302	**316PHD**
CORSA	1.5 TD	1.5	37	T4EC1 AADT OHC S.N.804795->	4	12	90->2/93	316	**316PHD**
	1.5 TD	1.5	49	15 TD T4EC1 OHC	4	12	03/93->08/00	457	**457PHD**
	1,5 XD	1.5	37	X 15D 4EC1 OHC	4	12	04/96->08/00	457	**457PHD**
	1,5 XTD	1.5	49	X15 TD 4EE1 OHC	4	12	04/96->08/00	457	**457PHD**
	1,7 D	1.5	44	X 17 D 4EE1 OHC	4	12	04/96->08/00	457	**457PHD**
	1,7 D	1.5	44	17 D 4EE1 OHC	4	12	87->89	319	**339PHD**
	1,7 DI 16V	1.7	65	4EE2	4	12	01/01->	/	**638PHD**
	1,7DTI 16V	1.7	75	4EE2	4	12	01/01->	/	**638PHD**
	1,7 Dti	1.7	55	Y17DT	4	12	10/01->	/	**638PHD**
	2,8 TDI	2.8	83	C 4JG 2 OHV	4	12	2/95 -> 8/98	386	**386PHD**
	2.2 DTI	2.2	85	Y22DTH	4	12	10/97->	/	**649PHD**
FRONTERA	2.2 DTI	2.2	85	X22DTH	4	12	10/97 ->	/	**622PHD**
	2.3 TD	2.3	74	23 DTR OHC	4	12	9/91->2/95	359	**366PHD**
	2.5 TDI	2.5	85	25 TD/TDS OHC	4	12	6/96->	405PH	**405PHD**
	2,8 TDI	2.8	83	28TD	4	12	3/95->9/98	/	**622PHD**
	D 1.6 D	1.6	40	16 D OHC	4	12	3/82->8/84	359	**366PHD**
KADETT	E 1.5 D	1.5	37	ISUZU 4 EC1 S.N. 804795	4	12	9/84->8/91	339	**339PHD**
	E 1.5 D	1.5	37	ISUZU 4 EC1 S.N.->804794	4	12	9/84->8/91	319	**339PHD**
	E 1.5 TD	1.5	53	ISUZU TC4,EC1 OHC	4	12	9/88->8/91	302	**316PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
OPEL									
KADETT	E 1.6 D	1.6	40	16 D,DA,DHC	4	12	9/84->1/89	359	**366PHD**
	E 1.7 TD	1.7	60	ISUZU TC4 EE1OHC S.N.->817252	4	12	9/88->8/91	302	**316PHD**
	E 1.7 TD	1.7	60	ISUZU TC4 EE1OHC S.N.817253->	4	12	9/88->8/91	316	**316PHD**
MERIVA	1,7 DTI	1.7	55	Y17DT	4	12	09/02->	/	**638PHD**
	1,7 CDTI	1.7	74	Y17DTL - Z17DTL	4	12	09/03->	/	**638PHD**
MONTEREY	3,0 TDI	3.0	117	4JX1	4	12	7/98->	/	**666PHD**
	3.1 TD	3.1	85	ISUZU 4 JG2 TC OHV	4	12	9/91->4/93	316	**316PHD**
MOVANO	1.9 DTI	1,9	59	F9Q-770	4	12	12/99->	/	**628PHD**
	2,2 DTI	2.2	66	G9T-720	4	12	09/00->	/	**640PHD**
	2.5 D	2.5	59	S8U772	4	12	7/98->	604PH	**604PHD**
OMEGA	A 2.3 D	2.3	54	23 YD OHC	4	12	9/86->3/94	359	**366PHD**
	A 2.3 TD	2.3	66-74	23 DTR OHC,23 YDT OHC	4	12	9/86->3/94	359	**366PHD**
	B 2.0 DI	2.0	60	X 20 DILC	4	12	9/96->8/97	613PH	**613PHD**
	B 2.0 DI	2.0	74	X 20 DILC	4	12	9/97->	/	**622PHD**
	B 2.5 TD	2.5	96	BMW U25 TD OHC R6	6	12	1/94->	363PH	**366PHD**
	B 2,5 DTI 24V	2.5	110	Y 25 TD	6	12	09/01->	/	**616PHD**
	C 2,0 DTI	2,0	74	X20DTH	4	12	02/98->	/	**622PHD**
	C 2,0 DTI 16V	2,0	74	Y 20 DTH	4	12	9/99->	/	**649PHD**
	C 2,2 DTI 16V	2.2	88	Y 22 DTR	4	12	10/00->	/	**649PHD**
REKORD	D 2.0 D	2.0	40-43	20 D	4	12	8/74->12/75	433	**/**
	D 2.0 D	2.0	40-43	20 D	4	12	1/76->8/77	434	**/**
	D 2.1 D	2.1	44	21 D	4	12	9/72->8/77	434	**/**
	D 2.1 D CARAVAN	2.1	44	21 D	4	12	9/72->8/77	434	**/**
	E 2.0 D	2.0	40-43	20 D	4	12	9/77->10/79	434	**/**
	E 2.0 D	2.0	40-43	20 D	4	12	11/79->10/82	359	**366PHD**
	E 2.1 D	2.1	44	21 D	4	12	9/77->7/78	434	**/**
	E 2.3 D	2.3	48-52	23 D	4	12	11/82->8/86	366PH	**366PHD**
	E 2.3 D	2.3	48-52	23 D	4	12	8/78->10/79	434	**/**
	E 2.3 D	2.3	48-52	23 D	4	12	11/79->10/82	359	**366PHD**
	E 2.3 TD	2.3	63	23 DT	4	12	6/84->8/86	359	**366PHD**
SENATOR	2.0 D	2.0		S.N. 90310->	4	12	80->	370	**366PHD**
	2.0 D	2.0		S.N.->90309	4	12	->79	434	**/**
	2.3 D	2.3	70	S.N. 40019->		12	81->	359	**366PHD**
	2.3 D	2.3	64	S.N.->40018		12	->80	434	**/**
	2.3 TD	2.3	64	S.N. 121527->	4	12	81->	359	**366PHD**
SIGNUM	2,0 DTI	2.0	74		4	12	05/03->	/	**622PHD**
	2,2 DTI	2.2	92		4	12	05/03->	/	**649PHD**
SINTRA	2,2 TDI	2,2	85	X22DTH	4	12	1/98 ->	/	**622PHD**
VECTRA	A 1.7 D	1.7	42-44	17D OHC II S.N. S1003315,S7502800	4	12	9/94->8/95	366PH	**366PHD**
	A 1.7 D	1.7	42	17D OHC II S.N.->S1003314,S7502799	4	12	10/88->8/94	359	**366PHD**
	A 1,7 TD	1.7	60	X17DT Isuzu TC4EE1	4	12	10/92->8/95	457	**457PHD**
	A 1.7 TD	1.7	60	ISUZU 17DT/TC4 EC1,X17DT	4	12	3/80->9/92	339	**339PHD**
	A 1.7 TD	1.7	60	ISUZU 17DT/TC4 EC1,X17DT	4	12	10/92->08/95	457	**457PHD**
	A 1.7 XTD	1.7	60	X 17 TD OHC Turbo <TC4 EE1>	4	12	09/95->	457	**457PHD**
	B 1.7 XTD	1.7	60	X 17 TD OHC Turbo <TC4 EE1>	4	12	09/95->	457	**457PHD**
	B 2.0 DTI	2.0	74	X 20 DILC	4	12	9/97-> 7/99	/	**622PHD**
	B 2.0 DTL	2.0	60	X 20 DTL OHC 16V	4	12	9/96->	613PH	**613PHD**
	B 2,2 TDI 16V	2.2	92	Y 22 DTR	4	12	08/00->	/	**649PHD**
	C 2,0 DTI	2.0	74		4	12	04/02->	/	**649PHD**
	C 2,2 DTI	2.2	92		4	12	04/02->	/	**649PHD**
VIVARO	1.9 DTI	1,9	59	F9Q-770	4	12	12/99->	/	**628PHD**
	2,5 DTI	2.5	99		4	12	05/03->	/	**640PHD**
ZAFIRA	2,0 DI	2.0	60	X 20 DTL	4	12	9/99->	/	**622PHD**
	2.0 DTI	2.0	74	Y20DTH, Y20DTL	4	12	8/99 ->	/	**622PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
ORESTEIN & KOPPEL									
MOTRAK S 10				KHDF1L411D	1	12		886	/
MOTRAK S 16				KHDF2L411D	2	12		886	/
RADLADER L 4				KHDF2L411D	2	12		886	/
RADLADER L 5				KHDF2L411D	2	12		886	/
RADLADER L 5 C				KHDF2L511D	2	12		886	/
OTOSAN									
PICK-UP	600 D	1.9		ERK 1.9	4	12		359	**366PHD**
PERKINS									
4.108	4.108			ED…U61958N		12		701	/
2-2 1/2 Ton Fork Lift Truck				Perkins D3-152 (1)		12	01/70->	1501TS	/
				Perkins 4-107 (1)		12	01/70->	1501TS	/
Bedford CF Van	Float Engine			Perkins 4-108 (V)		12	01/71->	1501TS	/
				Perkins 4-154 (V)		12	01/71->	1501TS	/
				.4-99, -107, -108, -192, -203, -236		12	01/70->12/71	1501TS	/
				3-144, -152		12	01/70->12/71	1501TS	/
				6 Pf 288, 305		12	01/70->12/71	1501TS	/
Beet Harvester				6-354		12	01/70->12/71	1501TS	/
				P3, P359		12	01/70->12/71	TA55E	/
				P4, P459		12	01/70->12/71	TA55E	/
				P6, P659		12	01/70->12/71	TA55E	/
				Perkins 6-372 (TA)		12	01/70->12/71	1501TS	/
DFG4L Fork Lift Truck/Industrial				Perkins 4-236 (1)		12	01/70->	1501TS	/
General				Perkins 6-354 (1)		12	01/69->12/70	1501TS	/
Inc. Marine				Perkins H6-354(M)		12	01/71->	1501TS	/
				Perkins 4-248 (1)		12	01/71->	1501TS	/
				Perkins 6-354.2		12	01/70->12/71	1501TS	/
Industrial				Perkins 6-372		12	01/71->	1501TS	/
				Perkins A4-248		12	01/70->	1501TS	/
				Perkins D4-203 (1)		12	01/70->	1501TS	/
Jeepney Bus				Perkins 4-108 (V)		12	01/69->	1501TS	/
Loading Shovel				Perkins 6-354 (1)		12	01/69->	1501TS	/
Marine				Perkins 4-108 M		12	01/69->	1501TS	/
Refrigeration Unit				Perkins 4-107 (A)		12	01/69->	1501TS	/
Tractor Convers. Engine				Perkins T6-354		12	01/69->	1501TS	/
Vehicle				Perkins 6-354 (V)		12	01/70->	1501TS	/
				WELLMAN EQUIPED		12		701	/
PEUGEOT									
	1.9 D	1.9	51	XUD9A	4	12	11/87->	359	**366PHD**
J 5	2.5 D	2.5	54-55	CRD93	4	12	9/81->	359	**366PHD**
	2.5 TD	2.5	70	CRD93LS	4	12	7/87->	370	**366PHD**
	2.0 D	2.0	44	XDP88	4	12	10/67->9/78	440	/
J 7	2.1 D	2.1	55	XDP90	4	12	10/70->9/78	440	/
	2.3 D	2.3	49	XD2P94	4	12	10/78->9/80	359	**366PHD**
	2.1 D	2.1	41	XDP4.90	4	12	10/80->	359	**366PHD**
J 9	2.3 D	2.3	49	XD2P	4	12	10/80->	359	**366PHD**
	2.5 D	2.5	53	XD3P	4	12	10/82->	359	**366PHD**
P4	2,5 D	2,5	56	XD3	4	24	10/86->12/93	373	/
	1.4 D	1.4	37	TUD3/L	4	12	10/92->	603PH	**603PHD**
106	1,5 D	1.5	40-42	VJZ, VJY	4	12	01/95->	623PH	**623PHD**
	1.6 D	1.6	40	TUD5	4	12	3/94->	403PH	**403PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
PEUGEOT									
	1.4 D XND, XRD, XTD	1.9	36	TUD3 [K9A][K9B] (37 / 50)	4	12	10/92->04/96	603PH	**603PHD**
	1.4 D XND, XRD, XTD	2.1	43-48	TUD3 L [K9Y] (37 / 50) < Catalysé >	4	12	10/92->04/96	603PH	**603PHD**
106	1.5 D	2.1	43-48	TUD5 [VJY] (40 / 54)	4	12	03/94 ->	339	**339PHD**
	1.5 D	2.1	48	TUD5 B [VJX][VJU] (40 / 54)	4	12	09/00 ->	339	**339PHD**
	1.5 D	2.3	47-51	TUD5 L [VJZ] (42 / 57)	4	12	03/94 ->	339	**339PHD**
204	1.3 D	1.3	29	XLD	4	12	7/67->7/73	435	**/**
	1.4 D	1.4	33	XL4D	4	12	7/73->7/77	435	**/**
	1.8 D	1.8	44	XUD7 (A9A,161A)	4	12	10/83->	359	**366PHD**
205	1.8 TD	1.8	58	XUD7T (A8A,A8B)	4	12	7/85->	359	**366PHD**
	1.9 D	1.9	47-51	XUD9/XUD9A	4	12	10/87->9/98	366PH	**366PHD**
	1,4 HDI	1.4	50	8HX (DV4TD)	4	12	09/01->	/	**818PHD**
	1,4 HDI S.W.	1,4	50	8HX (DV4TD)	4	12	07/02->	/	**818PHD**
206	1,8 TD	1.8	66	DW8TD	4	12	09/98->	623PH	**623PHD**
	1.9 D	1.9	51	WJZ (DW 8)	4	12	9/98->	623PH	**623PHD**
	2.0 HDI	1.9	66	DW10 TD, RHY	4	12	4/99->	617PH	**617PHD**
304	1.4 D	1.4	30-33	XL4D	4	12	8/76->8/79	435	**/**
	1.5 D	1.5	32-35	XIDL	4	12	2/79->8/80	370	**366PHD**
	1.5 D	1.5	32-36	XID	4	12	2/79->	359	**366PHD**
305	1.6 D	1.6	32-36	XD	4	12	11/77->	359	**366PHD**
	1.7 D	1.7	44	XUD7	4	12	10/82 -> 6/88	359	**366PHD**
	1.9 D	1.9	47-48	XUD9	4	12	10/82 -> 7/90	359	**366PHD**
	1.8 D	1.8	44	XUD7	4	12	9/98->	366PH	**366PHD**
	1.8 TD	1.8		DW8TD	4	12	09/98->	623PH	**623PHD**
	1.9 D	1.9	51	DW8	4	12	9/98->	623PH	**623PHD**
306	1.9 D	1.9	51	XUD9A/L, XUD9BSD	4	12	5/93->	366PH	**366PHD**
	1.9 TD	1.9	55	DHV	4	12	6/98->	623PH	**623PHD**
	1.9 TD	1.9	68	XUD9TE	4	12	3/93->	366PH	**366PHD**
	2.0 HDI	2.0	66-80	DW 10 TD	4	12	9/98->	617PH	**617PHD**
	1,4 HDI	1.4	50	8HX (DV4TD)	4	12	10/01->	/	**818PHD**
307	1,6 HDI	1.6	80	110 FAP	4	12	02/04->	617PH	**617PHD**
	2.0 HDI	2.0	66	DW 10 TD	4	12	03/01->	617PH	**617PHD**
	2.0 HDI	2.0	81	DW10ATED4	4	12	03/01->	617PH	**617PHD**
	1.6 D	1.6	40	TUD5	4	12	3/94->	403PH	**403PHD**
309	1.8 D	1.8	44	XUD7	4	12	6/86->12/93	359	**366PHD**
	1.8 TD	1.8	58	XUD7T	4	12	11/89->12/93	359	**366PHD**
	1.9 D	1.9	47	XUD9,XUD9Y	4	12	6/86->12/93	359	**366PHD**
404	1.9 D	1.9	39-47	XD4/88	4	12	10/67->6/75	440	**/**
	1.8 D	1.8	44	XUD7	4	12	10/90->12/92	366PH	**366PHD**
	1.8 TD	1.8	66	XUD7TE(A8A,A8B),XUD7TEY(AJZ)	4	12	3/88->12/92	366PH	**366PHD**
405	1.9 D	1.9	51	XUD9A(D9B)/L	4	12	9/98->	366PH	**366PHD**
	1.9 D	1.9	47	XUD9Y	4	12	7/88->12/92	366PH	**366PHD**
	1.9 D	1.9	50	XUD9Y(D9B)	4	12	7/94->	366PH	**366PHD**
	1.9 TD	1.9	68	XUD9TE KATAL.(DHY),XUD9TF(D8A)	4	12	9/93->	366PH	**366PHD**
	1.9 D	1.9	51	XUD9SD, XUD9BSD	4	12	9/98->	366PH	**366PHD**
	1.9 TD	1.9	68	XUD9BTF	4	12	9/98->	366PH	**366PHD**
	1.9 TD	1.9	68	XUD9TE	4	12	10/95->8/98	366PH	**366PHD**
406	2,0 TD	2,0	80	DW10TD (RHZ)	4	12	9/98->	617PH	**617PHD**
	2.0 D	2.0	80	DW10TED (RHZ)	4	12	9/98->	617PH	**617PHD**
	2,0 HDI	2.0	66	DW10TD	4	12	2/99->	617PH	**617PHD**
	2.0 HDI	2.0	79	DW10ATED4	4	12	08/01->	617PH	**617PHD**
	2.0 HDI	2.0	80	RHZ (DW10ATED)	4	12	9/98->3/99	617PH	**617PHD**
	2.1 TD	2.1	80-81	XUD11ATE, XUD11BTE	4	12	12/95->3/99	366PH	**366PHD**
	2,2 HDI	2,2	100	DW12TED4/FAP	4	12	9/00->	617PH	**617PHD**
407	1,6 HDI	1.6	80		4	12	05/04->	617PH	**617PHD**
	2,0 HDI	2.0	100		4	12	05/04->	617PH	**617PHD**
504	1.9 D	1.9	36-42	XD 4.88	4	12	4/71->5/78	446	**/**
	1.9 D	1.9	36-42	XD 4.88	4	12	6/78->9/79	370	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
PEUGEOT									
	1.9 D PICK-UP	1.9	36	XD 4.88 S.N. S 3680625->	4	12	1/82->6/87	359	**366PHD**
	1.9 D PICK-UP	1.9	36	XD 4.88 S.N.->S 3680624	4	12	10/79->12/81	359	**366PHD**
	2.1 D	2.1	43-48	XD 4.90	4	12	10/70->5/78	446	**/**
504	2.1 D	2.1	43-48	XD 4.90	4	12	6/78->9/81	370	**366PHD**
	2.1 D PICK-UP	2.1	48	XD 4.90 (115)	4	12	8/81->12/90	359	**366PHD**
	2.3 D	2.3	47-51	XD2	4	12	8/76->5/78	446	**/**
	2.3 D	2.3	47-51	XD2	4	12	6/78->6/83	366PH	**366PHD**
	2.3 D PICK-UP	2.3	51	XD2	4	12	7/84->	366PH	**366PHD**
	2.3 D	2.3	44-51	XD2	4	12	9/79->9/86	366PH	**366PHD**
	2.3 TD	2.3	54-59	XD2S	4	12	9/80->6/86	366PH	**366PHD**
505	2.5 D	2.5	51-56	XD3	4	12	6/81->12/93	366PH	**366PHD**
	2.5 TD	2.5	66-77	XD3T	4	12	10/83->12/93	366PH	**366PHD**
	2.5 TD	2.5	77	XD3TE	4	12	10/86->12/93	366PH	**366PHD**
604	2.3 TD	2.3	54-59	XD2S, XD2D	4	12	2/79->6/83	366PH	**366PHD**
	2.5 TD	2.5	66-70	XD3T	4	12	7/83->6/86	366PH	**366PHD**
	2.1 D	2.1	60	XUD11A/L	4	12	6/89->	366PH	**366PHD**
605	2.1 TD	2.1	80	XUD11ATE/L,XUD11BTE	4	12	6/89->10/96	366PH	**366PHD**
	2.1 TD	2.1	80-81	XUD11BTE	4	12	4/98->5/99	366PH	**366PHD**
	2.5 TD	2.5	94-96	DK5ATE (THY)	4	12	7/94->	366PH	**366PHD**
607	2.2 HDi	2.2	98	DW12TED4/FAP	4	12	3/00->	617PH	**617PHD**
	1.9 TD	1.9	68	XUD9TE, XUD9TF, XUD9BTF	4	12	94->9/98	366PH	**366PHD**
806	2.0 D	2.0	80	DW10ATED	4	12	9/98->	617PH	**617PHD**
	2.0 HDI	2.0	80	DW10ATED (RHZ)	4	12	08/99->	617PH	**617PHD**
	2.1 TD	2.1	80	XUD11BTE, XUD11ATE	4	12	4/96->	366PH	**366PHD**
807	2,0 HDI	2.0	78	DW10ATED4	4	12	06/02->	617PH	**617PHD**
	2,2 HDI	2.2	94	DW12TED4/FAP	4	12	06/02->	617PH	**617PHD**
	1.8 D	1.8	44	XUD7	4	12	9/98->	366PH	**366PHD**
	1.9 D	1.9	51	XUD9AU	4	12	3/94->	366PH	**366PHD**
	1.9 TD	1.9	60	XUD9TFU, XUD9TF	4	12	3/94->	366PH	**366PHD**
	2.0 D	2.0	80	DW 10 TED, DW 10 DU	4	12	9/98->	617PH	**617PHD**
BOXER	2.0 HDI	2.0	69	RHZ	4	12	7/00->	617PH	**617PHD**
	2,2 HDI	2.2	74		4	12	04/02->	617PH	**617PHD**
	2.4 TDI	2.4	79	DJ 5 TED	4	12	1/97->	620PH	**620PHD**
	2.5 D	2.5	63	DJ5	4	12	3/94->	366PH	**366PHD**
	2.5 TD	2.5	76	DJ5T	4	12	3/94->8/96	366PH	**366PHD**
	2.5 TDI	2.5	76	DJ 5 TED	4	12	9/96->	620PH	**620PHD**
	2,8 HDI	2.8	94		4	12	11/00->	615PH	**615PHD**
	1.8 D, TD	1.8	51-66	DW 8, TD	4	12	9/98->	623PH	**623PHD**
	1.9 D	1.9	51	XUD9A	4	12	9/95->	366PH	**366PHD**
EXPERT	1.9 TD	1.9	66-68	XUD9TE, TF, BTF	4	12	9/95->	366PH	**366PHD**
	1.9 D	1.9	51	WJZ (DW 8)	4	12	9/98->	/	**623PHD**
	2.0 HDI	2.0	69	RHZ	4	12	7/00->	617PH	**617PHD**
	2,0 HDI	2,0	80	DW10 ATED, BTED	4	12	10/99->	617PH	**617PHD**
	1.8 D	1.8	44	XUD7	4	12	8/96->	366PH	**366PHD**
	1.8 D, TD	1.8	51-66	DW 8, TD	4	12	9/98->	623PH	**623PHD**
PARTNER	1.9 D	1.9	51	XUD9A	4	12	8/96->	366PH	**366PHD**
	1.9 D	1.9	51	WJZ (DW 8)	4	12	11/98->	/	**623PHD**
	1.9 D	1.9	52	WJY (DW 8B)	4	12	09/00->	/	**623PHD**
	2,0 HDI	2.0	66	DW10TD	4	12	02/00->	617PH	**617PHD**
RANCH	1,9 D	1,9	51	XUD9A	4	12	7/97->10/98	366PH	**366PHD**
PIAGGIO									
APECAR, VESPACAR	0,5	0,5	11		1	12	83->	354	**348PHD**
PORTER	1.2 D	1.2	26	Mot. LOMBARDINI LDW12	4	12	05/95->	366PH	**374PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
POCLAIN									
18.01, 18,15			54	KHD-F 6 L 912		24	01/69->12/79	1560TF	/
FC 30, FY 30			24	KHD-F 3 L 912		12	01/69->02/76	1540TF	/
HC 300			201	KHD-F 12 L 413		24	01/73->02/76	1550TF	/
LC 80,LY 80, LY 2P			54	KHD-F 6 L 912		24	01/69->06/76	1560TF	/
POCLAIN									
MC 100, MCL 84			61	KHD-F 5 L 912		24	01/73->01/76	1560TF	/
RC 200			115	KHD-F 6 L 413		24	001/73->11/76	1550TF	/
RC 491, 556			115	KHD-F 6 L 413		24	01/73->	1550TF	/
SC 141, 150			95	KHD-BF 6 L 912		24	01/73->09/76	1560TF	/
TY 2P			38	KHD-F 4 L 912		12	01/69->01/80	1540TF	/
TY 45			38	KHD-F 4 L 912		12	01/69->12/79	1540TF	/
PONTIAC									
6000	4.3 D	**4.3**		I DIESEL V6 T	6	12	82->3	418	/
BONNEVILLE	5.7 D	**5.7**		I DIESEL V8 N	8	12	80->83	418	/
CATALINA						12		418	/
ENGINE	4.3 D	**4.3**		I DIESEL V6 T	6	12	82->83	418	/
	4.3 D	**4.3**		I DIESEL V6 T	6	12	84->85	454	/
	5.7 D	**5.7**		I DIESEL V8 N	8	12	80->83	418	/
	5.7 D	**5.7**		I DIESEL V8 N	8	12	84->85	454	/
GRAND PRIX	5.7 D	**5.7**		I DIESEL V8 N	8	12	81->83	418	/
LEMANS	5.7 D	**5.7**		I DIESEL V8 N	8	12	82->83	418	/
PARISIENNE						12		418	/
SAFARI						12		418	/
PROTON									
PERSONA 400/420	2.0 D	**2.0**	60		4	12	09/96->	341	**459PHD**
RENAULT									
AVANTIME	2,2 DCI	**2.2**	110	COOLING WATER HEATER		12	05/02->	/	**628PHD**
	2,2 DCI	**2.2**	110		4	12	05/02->	/	**640PHD**
CLIO	1.9 D	**1.9**	48	F8Q-676	4	12	10/94->	385PH	**385PHD**
	1.9 D	**1.9**	47-48	F8Q-714, F8Q-730, F8Q-732	4	12	01/90->02/98	602PH	**602PHD**
CLIO II	1.5 DCI	**1.5**	48	K9K-704	4	12	06/01->	/	**628PHD**
	1.5 DCI	**1.5**	60	K9K-702	4	12	06/01->		**628PHD**
	1.9 D	**1.9**	47	F8Q-630,662	4	12	03/98->	614PH	**614PHD**
	1.9 D	**1.9**	40-47	F8Q-632	4	12	03/99->	/	**629PHD**
	1.9 TDI	**1.9**	72	F9Q-716	4	12	01/99->	609PH	**609PHD**
	1.9 TDI	**1.9**	59	F9Q-780	4	12	02/00->	/	**628PHD**
ESPACE I	2,1 TD	**2.1**	65	J8S	4	12	10/84->10/90	376	**366PHD**
ESPACE II	2,1 TD	**2.1**	65-66	J8S	4	12	01/91->10/96	376	**366PHD**
ESPACE III	1,9 DTI	**1.9**	72	F9Q-722	4	12	02/99->	/	**628PHD**
	2,2 TD	**2.2**	83	G8T-714,716,760	4	12	11/96->10/00	609PH	**609PHD**
	2,2 DCI	**2.2**	95	G9T-710	4	12	08/00->	/	**640PHD**
ESPACE IV	1,9 DCI	**1.9**	88		4	12	11/02->	/	**628PHD**
	2,2 DCI	**2.2**	110	G9T-702	4	12	11/02->	/	**640PHD**
EXPRESS	1,6 EXTRA, RAPID	**1.6**	40	F8M	4	12	86->97	602PH	**602PHD**
	1,9 EXTRA, RAPID	**1.9**	47-48	F8Q-640	4	12	9/94->	385PH	**385PHD**
	1,9 EXTRA, RAPID	**1.9**	48	F8Q-774, 776, 730	4	12	9/91->	602PH	**602PHD**
FUEGO	2,1 D	**2.1**		J8S	4	12	9/81->	376	**366PHD**
	2,1 TD	**2.1**	65	J8S	4	12	9/82->7/84	376	**366PHD**
KANGOO	1,5 dCi	**1.5**	48	K9K-700	4	12	12/01->	/	**628PHD**
	1,5 dCi	**1.5**	60		4	12	07/02->	/	**628PHD**
	1.9 D	**1.9**	40-47	F8Q-632	4	12	03/99->	/	**629PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
RENAULT									
KANGOO	1.9 D 55	1.9	40	F8Q-662	4	12	03/98->	614PH	**614PHD**
	1.9 D 65	1.9	47	F8Q-630	4	12	03/98->	614PH	**614PHD**
	1,9 dCi	1.9	59	F9Q 790	4	12	10/01->	/	**628PHD**
	1.9 DTI	1.9	59	F9Q-780	4	12	03/98->	/	**628PHD**
LAGUNA I	1,9 DTI	1.9	72	F9Q-710, 716, 717, 718	4	12	10/97->3/01		**628PHD**
	2,2 D	2.2	61	G8T	4	12	1/94->3/01	609PH	**609PHD**
	2,2 TD	2.2	83-85	G8T-760	4	12	3/96->3/01	609PH	**609PHD**
LAGUNA II	1,9 DCI	1.9	88	F9Q-750, 751, 752, 754	4	12	1/01->	/	**628PHD**
	1,9 DCI	1.9	74	(BG0R)	4	12	10/01->	/	**628PHD**
	1,9 DCI	1.9	77	(BG0E)	4	12	06/01->	/	**628PHD**
	1,9 DCI	1.9	79	(B56W)	4	12	09/99->03/01	/	**628PHD**
	2,2 DCI	2.2	110	G9T-702	4	12	10/01->	/	**640PHD**
	2,2 D	2,2	99	G9T-710	4	12	3/01->	/	**628PHD**
MASTER	1,9 DTI	1,9	59	F9QT-770	4	12	6/00->	/	**628PHD**
	1,9 DCI	1.9	60		4	12	11,01->	/	**628PHD**
	2,1 T30D	2.1	45	J8S	4	12	1/86->	376	**366PHD**
	2,2 DCI	2.2	66	G9T-722	4	12	09/00->	/	**640PHD**
	2,4 T30D	2.4	52	SOFIM 8140.61	4	12	9/80->12/87	376	**366PHD**
	2,4 T35D	2.4	52-55	S8U-731,S8U-742	4	12	5/85->	376	**366PHD**
	2,4 T35D	2.4	52-55	S8V-748	4	12	5/85->	380PH	**604PHD**
	2,4 T35D	2.4	52-55	SOFIM 8140.61	4	12	9/80->	376	**366PHD**
	2.5 D	2.5	59	S8U-770	4	12	7/98->	615PH	**615PHD**
	2,5 DCI	2.5	84	G9U-720	4	12	10/01->	/	**640PHD**
	2,5 P35D	2.5	52	SOFIM 8140.61.2300	4	12	9/80->01/89	366PH	**366PHD**
	2,5 T28D	2.5	57	SOFIM - MOTOR	4	12	1/81->12/85	374PH	**374PHD**
	2,5 T35D TURBO	2.5	69	S8V-748 TURBO	4	12	5/85->	604PH	**604PHD**
	2,5 TDi	2.5	85	SOFIM 8140.27.2560	4	12	2/94->	1570TF	**/**
	2,8 DTI	2.8	84	S9W-700, 702,714,740	4	12	9/97->	615PH	**615PHD**
MEGANE	1,5 DCI	1.5	60	K9K-722	4	12	11/02->	/	**628PHD**
	1,9 DCI	1.9	72-75	F9Q-731, 736	4	12	3/99->	**/**	**628PHD**
	1,9 DCI	1.9	72-75	COOLING WATER HEATER	3	12	3/99->	/	**652PHD**
	1,9 D	1.9	47-48	F8Q-620, 624	4	12	1/96->	385PH	**385PHD**
	1,9 D	1.9	47	F8Q-622, 790	4	12	3/99->	/	**629PHD**
	1,9 D	1.9	47	F8Q-788	4	12	3/99->	614PH	**614PHD**
	1,9 DTI	1.9	72	F9Q-716, 718	4	12	3/99->	/	**628PHD**
	1,9 DTI	1.9	59	F9QT-770	4	12	6/00->	/	**628PHD**
	1,9 TD	1.9	66	F8Q-784, 786	4	12	1/96->	600PH	**600PHD**
	1,9 TDI	1.9	66-69	F9Q-730, 734	4	12	1/96->	609PH	**609PHD**
	1,9 TDI	1.9	66-69	COOLING WATER HEATER	3	12	1/96->	**/**	**652PHD**
	1,9 Dci	1.9	88		4	12	09/03->	611PH	**611PHD**
R 5	1,6 D	1.6	40	F8M	4	12	85->12/92	602PH	**602PHD**
	1,6 D	1.6	40	F8M720, F8M730	4	12	10/84->	602PH	**602PHD**
R 9	1,6 D	1.6	40	F8M	4	12	83->12/92	602PH	**602PHD**
	1,6 D	1.6	40	F8M700, F8M720, F8M730	4	12	83->	602PH	**602PHD**
R 11	1,6 D	1.6	40	F8M	4	12	83->12/92	602PH	**602PHD**
	1,6 D	1.6	40	F8M700, F8M720, F8M730	4	12	83->	602PH	**602PHD**
R 18	2,1 D	2.1	48	J8S	4	12	8/80->2/86	370	**366PHD**
	2,1 TD	2.1	50	J8S TURBO	4	12	5/81->2/86	376	**366PHD**
R 19	1,9 D	1.9	48	F8Q	4	12	6/88->12/92	367	**602PHD**
	1,9 D	1.9	48	F8Q706, F8Q742, F8Q764	4	12	6/88->	367	**602PHD**
	1,9 TD	1.9	66-68	F8Q610, 740, 744, 768	4	12	9/90->	600PH	**600PHD**
R 20	2,1 D	2.1	47		4	12	12/79->12/83	370	**366PHD**
	2,1 TD	2.1	63		4	12	9/82->12/83	376	**366PHD**
R 21	1,9 D,SD,GSD	1.9	48	F8Q	4	12	86->12/92	602PH	**602PHD**
	1,9 D,SD,GSD	1.9	48	F8Q710	4	12	5/89->	602PH	**602PHD**
	2,1 FASTBACK D	2.1	51-54	J8S	4	12	3/86->	376	**366PHD**
	1,9 FASTBACK D,SD,GSD	1.9	48	F8Q	4	12	86->12/92	602PH	**602PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
RENAULT									
	1,9 FASTBACK D,SD,GSD	1.9	48	F8Q710	4	12	5/89->	602PH	**602PHD**
	2,1 FASTBACK TD	2.1	65	J8S TURBO	4	12	3/86->12/93	376	**366PHD**
	2,1 NEVADA D	2.1	49-54	J8S	4	12	3/86->	376	**366PHD**
	1,9 NEVADA D,SD,GSD	1.9	48	F8Q	4	12	86->12/92	602PH	**602PHD**
R 21	1,9 NEVADA D,SD,GSD	1.9	48	F8Q710	4	12	89->	602PH	**602PHD**
	2,1 NEVADA TD	2.1	65	J8S TURBO	4	12	3/86->12/93	376	**366PHD**
	2,1 D	2.1	46-56	J8S	4	12	3/86->	376	**366PHD**
	2,1 TD	2.1	65-68	J8S TURBO	4	12	3/86->12/93	376	**366PHD**
R 25	2.1 D	2.1	46-51	J8S	4	12	1/84->12/92	376	**366PHD**
	2,1 TD	2.1	63	J8S TURBO	4	12	1/84->12/92	376	**366PHD**
R 30	2.1 D	2.1			4	12		370	**366PHD**
	2,1 TD	2.1	63	J8S TURBO	4	12	10/81->12/83	370	**366PHD**
RAPID	1,6 D	1.6	40	F8M 720,730,736,760	4	12	09/86->08/98	602PH	**602PHD**
	1,9 D	1.9	40	F8Q 640, 682	4	12	09/94->03/98	385PH	**385PHD**
	2,1 TD	2.1	65-66	J8S	4	12	92->	376	**366PHD**
SAFRANE	2,2 TD	2.2	83	G8T	4	12	10/96->	609PH	**609PHD**
	2,5 TD	2.5	83-85	S8U	4	12	5/93->	380PH	**374PHD**
	1,9 DCI	1.9	75		4	12	11/00->	/	**628PHD**
SCENIC	1,9 DCI RX4	1.9	75		4	12	11/00->	/	**628PHD**
	1,9 DTI	1.9	72		4	12	09/99->	/	**628PHD**
	1,9 DTI	1.9	59		4	12	02/01->	/	**628PHD**
SCENIC II	1,5 CDI	1.5	60		4	12	06/03->	/	**628PHD**
	1,9 CDI	1.9	88		4	12	06/03->	/	**628PHD**
THALIA	1,5 dCi	1.5	48		4	12	04/02->	/	**628PHD**
	1,9 D	1.9	44	F8Q-606	4	12	3/98->	614PH	**614PHD**
	1,9 DCI 80	1.9	60		4	12	03/01->	/	**640PHD**
	1,9 DCI 100	1.9	74	F9Q 760	4	12	03/01->	/	**640PHD**
	2,1 DP1000, 1200	2.1	43	852-750	4	12	9/80->10/97	376	**366PHD**
TRAFIC	2,1 DT800, 1000, 1200, 4x4	2.1	43	J8S	4	12	9/80->10/97	376	**366PHD**
	2,5 D	2.5	99			12	05/03->	/	**640PHD**
	2.5 D	2.5	50	S8U-750, 752	4	12	1/89->12/95	604PH	**604PHD**
	2.5 D	2.5	55	SOFIM 81.40.67.2500	4	12	3/90->10/97	376	**366PHD**
	2.5 D	2.5	52	SOFIM S8U	4	12	10/82->10/97	376	**366PHD**
VEL SATIS	2,2 CDI	2.2	110	G9T-702	4	12	06/02->	/	**640PHD**
WINNEBAGO	2.1 D	2.1	43-57	J8S-232,234	4	12	4/82->6/87	376	**366PHD**
25 KVA				Perkins 4-108 (1)		12	01/72->	1501TS	/
456, 460 Tractor				M.W.M. D 325-3		12	01/71->	1504TS	/
50/53 Tractor				M.W.M. D 325-2		12	01/71->	1504TS	/
51, 56, 60, 61, 70 Tractors				M.W.M. D 325-3		12	01/71->	1504TS	/
560 KG, 610 KG				Perkins 6-354		12	01/75->	1501TS	/
560 KG, 610 KG, 750 KG				Perkins 6-354.2		12	01/75->	1501TS	/
750 GL				Perkins 6-354.4		12	01/77->	1504TS	/
750 KG Truck				Perkins 4-236 (V)		12	01/60->	1501TS	/
80, 86 Tractor				M.W.M. D 325-3		12	01/71->	1504TS	/
94 Tractor				M.W.M. D 325-4		12	01/71->	1504TS	/
Coach				Perkins 6-354		12	01/67->12/68	1501TS	/
Farm Tractor				Perkins D3-152		12	01/73->12/75	1504TS	/
OK, O 5 K, 10 K				Perkins 4-236		12	01/73->	1501TS	/
OU, O5 U, 10 U Chassis				Perkins 4-236		12	01/73->	1501TS	/
PR 100 Bus				Perkins V8-510		12	01/72->	1501TS	/
PR 100 City Bus				Perkins V8-510		12	01/71->	1501TS	/
R 361 Tractor				M.W.M. D 325-3		12	01/75->	1504TS	/
S 1000				Perkins 6-354		12	01/70->12/75	1501TS	/
S 1000 + 5800 Truck				Perkins 6-354 (V)		12	01/71->	1501TS	/
S 5800				Perkins 6-354		12	01/70->12/75	1501TS	/
S 7				Perkins 6-354		12	01/70->	1501TS	/
S 8				Perkins 6-354		12	01/70->	1501TS	/

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
RENAULT									
S800-S1000 Series Trucks				Perkins 6-354 (V)		12	01/70->	1501TS	**/**
SB 2				712		12	01/70->	1501TS	**/**
				712		12	01/70->	1504TS	**/**
SC 5				Perkins 6-354		12	01/70->	1501TS	**/**
SD 4 T				712		12	01/71->	1504TS	**/**
SG 2				712		12	01/70->	1501TS	**/**
				712		12	01/70->	1504TS	**/**
SG 4				712		12	01/70->	1501TS	**/**
				712		12	01/70->	1504TS	**/**
SG 4 T				712		12	01/71->	1504TS	**/**
SG 5				712		12	01/71->	1504TS	**/**
SM 5				712		12	01/71->	1504TS	**/**
SMD 5 T				712		12	01/71->	1504TS	**/**
Truck				Perkins 4-236, V		12	01/60->	1501TS	**/**
ROVER / MG									
FL 2R	HIRE CAR					12	8/83->	604PH	**604PHD**
FX 4R	TAXI					12	8/83->	604PH	**604PHD**
FREELANDER	2,0 DI	**2.0**	71	TCI-E	4	12	3/98->	609PH	**609PHD**
	2,0 TD4	**2.0**	82		4	12	11/00->	/	**616PHD**
	2,5 DTI	**2.5**	102	M47 D20	4	12	5/98->	/	**616PHD**
LAND ROVER	2,2 88	**2,2**		10J	4	12	72->83	452	**/**
	2,2 90	**2,2**		10J	4	12	77->83	452	**/**
	2,4	**2.4**	78	11A	4	12	04/86->12/90	430	**608PHD**
	2,5 90	**2.5**		12J	4	12	83->90	366PH	**366PHD**
	2,5 110	**2.5**	83	12J	4	12	1/85->12/90	366PH	**366PHD**
	2,5 COUNTY TD	**2.5**	83	12J	4	12	1/89->	608PH	**608PHD**
	2,5 D	**2.5**	100	25-6T (BMW)	6	12	07/94->03/02	363PH	**366PHD**
	2,5 DEFENDER TDi	**2.5**	83	200, 300 TDi	4	12	11/89->	397PH	**397PHD**
	2,5 DISCOVERY TDi	**2.5**	83	200, 300 TDi	4	12	9/89->	397PH	**397PHD**
	2,5 DISCOVERY TDi	**2.5**	102	TD5	5	12	1/99->	/	**631PHD**
	2,6 109	**2,6**	68		6	12		452	**/**
	3,0 D	**3.0**	130		6	12	03/02->	/	**616PHD**
MAESTRO	500	**0.5**	45	PERKINS PRIMA 80	4	12	1/86->12/89	366PH	**366PHD**
	700	**0.7**	45	PERKINS PRIMA 80	4	12	1/86->12/89	366PH	**366PHD**
	2,0 D	**2.0**	45	PERKINS PRIMA 80	4	12	1/90->12/92	366PH	**366PHD**
	2,0 TD, TD VAN	**2.0**	60	PERKINS PRIMA 80 T	4	12	1/92->12/95	366PH	**366PHD**
MARINA	1,5 D	**1.5**	37	BMC 1,5 OHV	4	12	1/71->12/82	427	**/**
METRO	1,4 D	**1.4**	39	TUD 3	4	12	1/92->12/95	603PH	**603PHD**
MG ZR	2,0 TD	**2.0**	74		4	12	06/01->	609PH	**609PHD**
MONTEGO	2,0 TD	**2.0**	60	PERKINS PRIMA 80 T	4	12	9/88->12/95	366PH	**366PHD**
RANGE ROVER	2,4 D	**2.4**				12		608PH	**608PHD**
	2,5 DT, DSE	**2.5**	100	BMW-M51-025	6	12	9/94->	366PH	**366PHD**
	2,4 SDi 2400 TD	**2.4**	67	VM-HR492HT	6	12	4/82->4/86	608PH	**608PHD**
	2,5 TD VOGUE, CLASSIC	**2.5**	87	VM HR 492,VM 425 SLIRR	4	12	93->	366PH	**366PHD**
	2,5 TDi	**2.5**	83	BMW-5 TC 2000 N	4	12	9/94->	366PH	**366PHD**
	2,5 TDi	**2.5**	83	ETC 9091 N	4	12	1/86->12/94	397PH	**397PHD**
	3,0 TD 6	**3.0**	130		6	12	03/02->	/	**616PHD**
SDI 2400	2,4 TD	**2.4**	67	VM-HR 492HT	6	12	4/82->4/86	608PH	**608PHD**
25	2,0 IDT	**2.0**	74	Tcie	4	12	10/99->	609PH	**609PHD**
45	2,0 IDT	**2.0**	74	Tcie	4	12	2/00->	609PH	**609PHD**
75	2,0 CDT	**2.0**	84	M 47 R	4	12	2/99->	/	**616PHD**
114	1,4 D	**1.4**	39	TUD3	4	12	1/92->12/94	603PH	**603PHD**
115	1,6 SD,CSD	**1.6**	57	TUD5	4	12	3/95->	403PH	**403PHD**
217	1,9 SD	**1.9**	49	XUD9	4	12	9/91->	366PH	**366PHD**
218	1,9 D,SD,SLD	**1.9**	49	XUD 9	4	12	3/91->12/96	366PH	**366PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
ROVER / MG									
218	1,8 TD	**1.8**	65	XUD7TE	4	12	3/91->12/96	366PH	**366PHD**
220	2,0 DI	**2,0**	63	20T2RN	4	12	2/96->	609PH	**609PHD**
	2,0 TDI	**2,0**	75	20T2N	4	12	2/96->	609PH	**609PHD**
418	1,9 D	**1,9**	49	XUD9	4	12	9/91->4/95	366PH	**366PHD**
	1,8 SLD,GSD,TD	**1.8**	65	XUD7T	4	12	9/91->12/92	366PH	**366PHD**
	2,0 D, SD	**2.0**	63	20T2R	4	12	3/96->	609PH	**609PHD**
420	2,0 DI, SDI, SLDI	**2.0**	77	20T2N	4	12	3/96->	609PH	**609PHD**
	2,0 D	**2.0**	63	20T2R	4	12	11/95-03/00	609PH	**609PHD**
	2,0 DI	**2.0**	77	20T2N	4	12	05/95-03/00	609PH	**609PHD**
620	2,0 SDi,SLDi,TD	**2.0**	77	20T2N	4	12	3/95->12/98	609PH	**609PHD**
	2,5 D, SD, SLD, TD	**2.5**	87	VM 425 SLIRR	4	12	9/91->4/95	366PH	**366PHD**
825	2,5 D	**2,5**	87	LBB 10249/C	6	12	01/88->07/91	608PH	**608PHD**
	2,5 SD, TD	**2,5**	87	VM425 SLIRR	4	12	5/95->	405PH	**405PHD**
2400	2,4 STD	**2.4**	67	VM HR 492 HT	4	12	4/82->10/86	608PH	**608PHD**
SAAB									
9-3	2,2 TiD	**2.2**	85	X 22 DTH	4	12	2/98->11/00	/	**622PHD**
	2,2 TiD	**2.2**	92		4	12	11/00->	/	**649PHD**
9-5	3,0 TiD	**3,0**	130	YS3E	6	12	07/01->	/	**665PHD**
SAME									
Aurora 45			33	983 L		12	03/73->10/81	1540TF	/
Buffalo 130			91	1056 P		12	01/78->10/81	1540TF	/
Centauro	70 Export		50	984 P		12	12/81->08/82	1540TF	/
	70 Export		50	100.4 P		12	09/82->10/87	1540TF	/
	70 Spécial		50	984 P		12	12/81->02/82	1540TF	/
	70 Spécial		50	100.4 P		12	09/82->10/87	1540TF	/
Centurion	75		55	105.4 P		12	11/78->09/80	1540TF	/
	75 Export		52	984 P		12	01/81->01/81	1540TF	/
	75 Export		55	105.4 P		12	01/81->10/87	1540TF	/
Centurion	75 Spécial		52	984 P		12	01/81->01/81	1540TF	/
	75 Spécial		55	105.4 P		12	01/81->05/88	1540TF	/
Condor 55			38	983 P		12	02/79->10/81	1540TF	/
Corsaro	Frutteto 70		48	984 P		12	10/81->03/88	1540TF	/
	Synchro 70		51	984 P		12	03/78->12/80	1540TF	/
Delfino	35		25	982 L		12	01/72->10/81	1540TF	/
Drago	120		84	1056 P		12	01/78->05/86	1540TF	/
			72	037-986		12	11/71->12/77	1540TF	/
ENGINE	105.2 LP		29			12	01/86->	1540TF	/
	105.3 P		47			12	01/86->	1540TF	/
	105.4 P		62			12	01/86->	1540TF	/
	105.2 LP		29			24	01/86->	1560TF	/
	105.3 P		47			24	01/86->	1560TF	/
	105.4 P		62			24	09/80->	1560TF	/
Explorer	60 Export, Spécial		44	100.3 A		12	06/86->	1540TF	/
	70 Export, Spécial		51	1000.4 A		12	07/86->	1540TF	/
	80 Export, Spécial		59	1000.4 A		12	07/86->	1540TF	/
	90 Export		65	1000.4 AT		12	06/86->	1540TF	/
	90 Spécial Turbo		65	1000.4 AT		12	06/86->12/88	1540TF	/
Falcon			36	983 L		12	07/75->09/80	1540TF	/
Fruttero	60		44	1000.3 A		12	04/87->	1540TF	/
	75		55	1000.4 A		12	04/87->	1540TF	/
Galaxy 170			121	105.6 PTI		12	06/83->	1540TF	/
Hercules 160			144	105.6 PT		12	06/79->10/83	1540TF	/
Jaguar			60	105.4 P		12	09/78->09/80	1540TF	/

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
SAME									
Jaguar	100		72	105.5 P		12	03/82->03/84	1540TF	/
	95		69	105.5 P		12	02/79->03/82	1540TF	/
Laser	150		170	105.6 PS		12	03/83->	1540TF	/
	90		65	105.4 PT		12	03/84->	1540TF	/
Leopard	85		60	105.4 P		12	01/78->02/82	1540TF	/
	85 Export		60	105.4 P		12	02/79->11/81	1540TF	/
	90 Turbo		61	105.4 PT		12	02/82->03/84	1540TF	/
Mercury	85		61	105.4 P		12	01/81->10/81	1540TF	/
	85 Export, Special		61	105.4 P		12	01/81->10/87	1540TF	/
Minitaurus 60			41	1053 L		12	01/74->09/80	1540TF	/
			44	105.3 P		12	05/60->12/77	1540TF	/
Panther	90		64	985 P		12	01/78->09/80	1540TF	/
	95		69	1055 P		12	02/79->10/81	1540TF	/
			61	DA 985 (041-985)		12	07/74->12/77	1540TF	/
Saturno Synchro 80			58	1054 P		12	02/79->12/80	1540TF	/
Sirenetta			22	982 L		12	01/72->10/81	1540TF	/
Solar	50		37	983 L		12	06/86->	1540TF	/
	60		44	105.3 P		12	06/86->	1540TF	/
Taurus	60		43	105.3 P		12	11/78->12/84	1540TF	/
	C		45	105.3 P		12	12/81->12/83	1540TF	/
Tiger 100			75	105.5 L		12	01/77->09/80	1540TF	/
Tiger Six 105			77	986 P		12	01/77->10/83	1540TF	/
			77	100.6 P		12	03/82->10/83	1540TF	/
Trident 130			92	1056 P		12	06/81->10/83	1540TF	/
SAVIEM									
15.168 HA, 19.168 H17			150	MAN-D2555M		24	01/77->06/80	1530TF	/
26.240 DHPM			194	MAN-D2556MX		24	01/77->06/80	1530TF	/
32.256 DHA			205	MAN-D2538MT		24	01/77->06/80	1530TF	/
SM5, SMD5T, S1000						12		1504TS	/
S5800, S7, S8, SC5						12		1504TS	/
TRUCKS SG2, SB2, SG4						12		1504TS	/
TRUCKS SG4T, SD4T, SG5,						12		1504TS	/
SEAT									
131	2.4 D	**2.4**	53	8144,61	4	12	6/82->12/84	366PH	**366PHD**
ALHAMBRA	1.9 TDi	**1.9**	66	1 Z, AHU	4	12	4/95->	611PH	**611PHD**
	1.9 TDi	**1.9**	66	COOLING WATER HEATER	3	12	4/95->	607PH	**607PHD**
	1.9 TDi	**1.9**	81	AFN	4	12	11/96->	611PH	**611PHD**
	1.9 TDi	**1.9**	81	COOLING WATER HEATER	3	12	11/96->	607PH	**607PHD**
	1,9 TDi 4 MOTION	**1.9**	66	ANU, AUY	4	12	06/00->	611PH	**611PHD**
	1,9 Tdi	**1.9**	96	ASZ	4	12	11/02->	/	**647PHD**
AROSA	1,4 TDI	**1,4**	55	AMF	3	12	01/00->	/	**647PHD**
	1.7 SDI	**1.7**	44	AKU	4	12	8/97->	611PH	**611PHD**
CORDOBA	1,4 TDI	**1.4**	55	AMF	3	12	10/02->	/	**647PHD**
	1.9 D	**1.9**	47-55	AEF, 1Y, AAZ	4	12	5/93->	348PH	**348PHD**
	1.9 SDI	**1.9**	47	AEY	4	12	12/95->	611PH	**611PHD**
	1.9 TDI	**1.9**	81	AFN	4	12	3/97->	611PH	**611PHD**
	1.9 TDI	**1.9**	81	COOLING WATER HEATER	3	12	3/97->	607PH	**607PHD**
	1.9 TDI	**1.9**	66	AHU	4	12	7/96->	611PH	**611PHD**
	1.9 TDI	**1.9**	66	COOLING WATER HEATER	3	12	7/96->	607PH	**607PHD**
IBIZA	1,4 Tdi	**1.4**	55	AMF	3	12	05/02->	/	**647PHD**
	1.7 D	**1.7**	40	FIAT 138 A 5...	4	12	6/84->5/93	366PH	**366PHD**
	1.9 D	**1.9**	47	1Y	4	12	5/93->	348PH	**348PHD**
	1.9 TD	**1.9**	55	AAZ	4	12	3/93->	348PH	**348PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
SEAT									
	1.9 SDI	1.9	47	AEY	4	12	3/93->	611PH	**611PHD**
	1.9 TDI	1.9	66	AHU	4	12	7/96->	611PH	**611PHD**
	1.9 TDI	1.9	66	COOLING WATER HEATER	3	12	7/96->	607PH	**607PHD**
	1.9 TDI	1.9	81	AFN	4	12	3/97->	611PH	**611PHD**
IBIZA	1.9 TDI	1.9	81	COOLING WATER HEATER	3	12	3/97->	607PH	**607PHD**
	1.9 SDI	1.9	47	ASY	4	12	02/02->	/	**647PHD**
	1.9 TDI	1.9	74	ATD	4	12	02/02->	/	**647PHD**
	1.9 TDI	1.9	96	ASZ	4	12	02/02->	/	**647PHD**
	1.9 TDI CUPRA R	1.9	110	ARL	4	12	01/04->	/	**647PHD**
INCA	1.7 D	1.7	42	AHB	4	12	09/96->	348PH	**348PHD**
	1.9 D	1.9	47	1Y	4	12	11/95->	348PH	**348PHD**
INCA	1,9 TDI	1.9	66		4	12	09/96->	611PH	**611PHD**
	1.9 SDI	1.9	47	AEY	4	12	11/95->	611PH	**611PHD**
	1,9 SDI	1.9	50	AQM	4	12	11/99->	611PH	**611PHD**
	1,9 TDI	1,9	66	AGR	4	12	12/99->	611PH	**611PHD**
LEON	1,9 TDI	1,9	66	COOLING WATER HEATER	3	12	12/99->	607PH	**607PHD**
	1,9 TDI	1,9	81	AHF	4	12	12/99->	611PH	**611PHD**
	1,9 TDI	1,9	81	COOLING WATER HEATER	3	12	12/99->	611PH	**611PHD**
	1,9 TDI	1,9	96	ASZ	4	12	05/03->	/	**647PHD**
	1,9 TDI	1,9	110	ARL	4	12	02/01->	611PH	**611PHD**
	1,9 TDI 4x4	1,9	110	ARL	4	12	05/02->	611PH	**611PHD**
MALAGA	1.7 D	1.7	40	FIAT 138 A5...	4	12	5/85->8/91	366PH	**366PHD**
RITMO	1,7 D	1.7	40	FIAT 138 A5...	4	12	9/80->8/88	366PH	**366PHD**
RONDA	1.7 D	1.7	40	FIAT 138 A5...	4	12	6/82->8/88	366PH	**366PHD**
TERRA	1.3 D	1,3	33	MN	4	12	1/90->12/94	348PH	**348PHD**
	1.4 D, KOMBI	1.4	35	1W	4	12	10/90->12/95	348PH	**348PHD**
	1.9 D	1.9	47	1 Y	4	12	3/91->	348PH	**348PHD**
	1.9 TD	1.9	55	AAZ	4	12	3/91->4/97	348PH	**348PHD**
	1.9 TDi	1.9	66	1Z	4	12	8/93->1/99	611PH	**611PHD**
TOLEDO	1.9 TDi	1.9	66	COOLING WATER HEATER	3	12	8/93->1/99	607PH	**607PHD**
	1.9 TDI	1.9	66	AGR	4	12	2/99->	611PH	**611PHD**
	1.9 TDI	1.9	66	COOLING WATER HEATER	3	12	2/99->	607PH	**607PHD**
	1.9 TDI	1.9	81	AHF	4	12	2/99->	611PH	**611PHD**
	1.9 TDI	1.9	81	COOLING WATER HEATER	3	12	2/99->	607PH	**607PHD**
	1.9 TDI	1.9	96	ASZ	4	12	05/03->	/	**647PHD**
SLANZI									
DVA 920						12	01/68->	886	/
DVA 1030						12	04/74->	886	/
DVA 1550						12	04/74->	886	/
DVA 1550 S 2						12	10/83->	886	/
DVA 1750						12	01/78->	886	/
DVA 1750 S						12	04/84->	886	/
DVA 1800						12	02/80->	886	/
DVA 2350						12	01/84->	886	/
DVA 2700						12	02/80->	886	/
DVA 3600						12	11/78->	886	/
DVA 3600 TB						12	01/84->	886	/

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
SKODA									
	1,4 TDI	1.4	55	AMF	3	12	04/03->	/	**647PHD**
	1.9 SDI	1.9	47-72	AGP	4	12	12/99->	611PH	**611PHD**
FABIA	1.9 TDI	1.9	81-85	AHF, AJM	4	12	12/99->	611PH	**611PHD**
	1,9 SDI PRAKTIK	1.9	47	ASY	4	12	05/03->	611PH	**611PHD**
	RS	1.9	96	ASZ	4	12	09/03->	/	**647PHD**
FELICIA	1.9 D	1.9	47	AEF, 1 Y	4	12	9/96->	348PH	**348PHD**
	1,9 SDI	1.9	47-50	AEY	4	12	09/96->	611PH	**611PHD**
	1,9 SDI	1.9	47-50	AGP , AQM	4	12	06/97->	611PH	**611PHD**
	1.9 D, PICK-UP	1.9	47-50	AEF, AGP	4	12	1/96->	348PH	**348PHD**
	1.9 TDi	1.9	66	1Z	4	12	7/96->	611PH	**611PHD**
OCTAVIA	1.9 TDi	1.9	66	COOLING WATER HEATER	3	12	7/96->	607PH	**607PHD**
	1.9 TDI	1.9	81	AHF	4	12	1/97->	611PH	**611PHD**
	1.9 TDI	1.9	81	COOLING WATER HEATER	3	12	1/97->	607PH	**607PHD**
	1.9 TDI	1.9	66	AGR	4	12	1/96->	607PH	**611PHD**
	1.9 TDI	1.9	66	COOLING WATER HEATER	3	12	1/96->	607PH	**607PHD**
	1,9 TDI	1.9	96	ASZ	4	12	1/03->	/	**647PHD**
	1,9 TDI	1.9	74	AVB	4	12	08/02->	/	**647PHD**
SUPERB	1,9 TDI	1.9	96	AWX	4	12	02/02->	611PH	**611PHD**
	2,5 TDI	2,5	114	AYM	6	12	02/02->	/	**626PHD**
SKODA									
	2,5 TDI	2,5	120	BDG	6	12	06/03->	/	**626PHD**
SMART									
CABRIO	0,8 CDI	0,8	29	OM 660 DE 08 LA	3	12	07/98->	/	**632PHD**
CITY-COUPE'	0,8 CDI	0,8	29	OM 660 DE 08 LA	3	12	11/99->	/	**632PHD**
FORFOUR	1.5	1.5			3	12	09/04->	/	**632PHD**
SSANG YONG									
ISTANA	2.3 D	2.3	57-58	OM 661.911	4	12	7/95->	365PH	**365PHD**
	2.9 D	2.9	70	OM 662.911	5	12	7/95->	365PH	**365PHD**
	2,2 D	2.2	50	DAEWOO DC23	4	12	12/88->12/96	339	**339PHD**
	2,3 D	2.3	58-59	OM 601.940	4	12	12/96->1/99	365PH	**365PHD**
KORANDO	2,9 D	2.9	72	OM 602.910	5	12	12/96->	365PH	**365PHD**
	2,9 TD	2.9	95	OM 662.D29	5	12	7/96->	365PH	**365PHD**
MUSSO	2,3 D	2.3	59	OM 601.910	4	12	7/93->	365PH	**365PHD**
	2,9 D	2.9	73-88	OM 602.910	5	12	7/93->	365PH	**365PHD**
REXTON	2,9 D	2.9	88		5	12	04/02->	365PH	**365PHD**
STEYR-DAIMLER-PUCH									
1291.310			225	WD 615.68,78		24	09/85->09/87	1550TF	**/**
1291.330			240	WD 815.67		24	10/86->09/87	1550TF	**/**
1491.310			225	WD 615.68,78		24	09/85->09/87	1550TF	**/**
1491.330			240	WD 815.67		24	10/83->09/87	1550TF	**/**
1891.310			225	WD 615.68		24	09/85->09/87	1550TF	**/**
1891.330			240	WD 815.68		24	10/83->09/87	1550TF	**/**
19 S 31			225-228	WD 615.68, 78, 98		24	10/87->	1550TF	**/**
19 S 34			240-250	WD 815.64, 67, 69, 79		24	10/87->	1550TF	**/**
19 S 37			270	WD 815.66,76		24	10/87->	1550TF	**/**
22 S 31			225-228	WD 615.68, 78		24	10/87->	1550TF	**/**
22 S 34			240-250	WD 815.64, 67, 69		24	10/87->	1550TF	**/**
22 S 37			270	WD 815.66		24	10/87->	1550TF	**/**
26 S 31			225	WD 615.68, 78		24	10/87->	1550TF	**/**
26 S 34			240-250	WD 615.64, 67, 69		24	10/87->	1550TF	**/**
26 S 37			270	WD 815.66,76		24	10/87->	1550TF	**/**
290GD	2.9	2.9	72	OM602	5	12	8/93->	365PH	**365PHD**
300GD	3.0	3.0	83	OM617/603	6	12	9/89->	365PH	**365PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
STEYR-DAIMLER-PUCH									
32 S 31			225-228	WD 615.68, 78		24	10/87->	1550TF	**/**
32 S 34			240-250	WD 815.64,67, 69, 79		24	10/87->	1550TF	**/**
32 S 37			270	WD 815.66,76		24	10/87->	1550TF	**/**
33 S 31			225-228	WD 615.68		24	10/87->	1550TF	**/**
33 S 34			250	WD 815.67		24	10/87->	1550TF	**/**
350GDT	3.5	**3.5**	100	OM617/603	6	12	9/91->	365PH	**365PHD**
40 S 31			225-228	WD 615.68		24	01/88->	1550TF	**/**
40 S 34			250	WD 815.67		24	01/88->	1550TF	**/**
40 S 37			270	WD 815.66		24	01/88->	1550TF	**/**
8060, A				WD 311.40 , 311.41		12	01/80->	886	**/**
8070, A				WD 411.41 , 411.42		12	01/80->06/82	886	**/**
8080, A				WD 411.85 , 411.86		12	01/80->	886	**/**
8100, A				WD 611.40 , 611.41		12	12/78->	886	**/**
8120, A				WD 611.85 , 611.86		12	12/78->06/82	886	**/**
SUZUKI									
BALENO	1,9 TD	**1,9**	55		4	12	4/98->	366PH	**366PHD**
GRAND VITARA	2,0 TD	**2,0**	64	MAZDA RF	4	12	3/98->	347	**317PHD**
	2,0 HDI 110 (FT-GT)	**2.0**	80		4	12	07/01->	617PH	**617PHD**
VITARA	1.9 D	**1.9**	50	XUD9A	4	12	4/96->3/98	366PH	**366PHD**
SUZUKI									
VITARA	1.9 TD	**1.9**	55	XUD9SD	4	12	10/96->3/98	366PH	**366PHD**
	2.0 TD	**2.0**	52-64	MAZDA RF	4	12	12/94->3/98	347	**317PHD**
VITARA ESCUDO	RF TURBO			KD-TD31W	4	12	10/96->	/	**646PHD**
SAMURAI (SJ)	1,9 TD	**1.9**	46	XUD9	4	12	11/98->	366PH	**366PHD**
TALBOT									
	1.9 D	**1.9**	51	XUD 9A	4	12	11/87->01/94	366PH	**366PHD**
EXPRESS	2.5 D	**2.5**	55	CRD93	4	12	9/81->1/94	366PH	**366PHD**
	2.5 TD	**2.5**	70	CRD 93 LS	4	12	7/87->1/94	366PH	**366PHD**
HORIZON	1,9 D	**1.9**	47	XUD 9	4	12	7/82->6/86	359	**366PHD**
SOLARA	1,9 D	**1.9**	47	XUD 9	4	12	11/84->7/86	359	**366PHD**
TAGORA	2,3 TD	**2.3**	59	XD2S	4	12	9/81->6/83	359	**366PHD**
TATA									
206, 207	1,9 D	**1.9**	44-50	4DL	4	12	7/88->	366PH	**366PHD**
SIERRA	1,9 D	**1.9**	46		4	12	06/97->10/99	366PH	**366PHD**
	1,9 TD	**1.9**	68		4	12	06/97->	366PH	**366PHD**
TOYOTA									
	2,4 TD	**2,4**	66	2L-T	4	12	10/90->12/96	424	**425PHD**
4 RUNNER	2,5 D	**2,5**	66	2L-T	4	12	93->	424	**425PHD**
	2,8 D	**2.8**	58	3L	4	12	93->	424	**425PHD**
AVENSIS	2,0 TD	**2,0**	66	2CTE (TDEFI)	4	12	10/97->7/00	466	**411PHD**
	2,0 D-4D	**2,0**	82	2,0TD Mot.1CDETV(C. RAIL)	4	12	04/03->	/	**642PHD**
AVENSIS VERSO	2,0	**2,0**	85	1CD-FTV	4	12	01/01->	/	**642PHD**
BLIZZARD	2,5 D	**2,5**	63-66	2L-TE	4	12	4/90->	424	**425PHD**
BUS				2 D	6	24	3/73->3/77	/	**318PHD**
				2 D	6	24	3/69->2/73	190	**/**
CAMRY	1,8 D	**1,8**	54	1C-T	4	12	8/83->12/85	425	**411PHD**
	2,0 TD COMBI	**2,0**	62	2CT	4	12	10/86->5/91	211	**411PHD**
CARINA	1,8 D	**1,8**	48	1C-2CL	4	12	4/82->9/83	425	**411PHD**
CARINA E	2,0 TD	**2,0**	61	2C-T	4	12	1/96->10/97	211	**411PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
TOYOTA									
CARINA E	2,0 D	**2,0**	54	2C	4	12	2/92->	211	**411PHD**
CARINA II	2,0 D	**2.0**	54	2C	4	12	12/87->	211	**411PHD**
	2,0 D	**2,0**	55	2C-L	4	12	10/83->12/85	211	**411PHD**
	2,0 D	**2.0**	51	2C-L	4	12	10/83->11/87	211	**411PHD**
CHASER	2,5 D Q-LX80	**2.5**	53-61	2L-II, 2L-IIT	4	12	8/88->	424	**425PHD**
COASTER				2H	6	24	82->	/	**406PHD**
				13 B		24	93->	/	**406PHD**
				13 B	4	12	93->	211	**411PHD**
				B,2B,3B	4	24	72->7/89	/	**406PHD**
				B,2B,3B	4	12	72->4/82	211	**411PHD**
	K-BB 21, 31, 26V			3B	4	24	8/98->	/	**406PHD**
	KC-HZB 50			1HZ	6	24	5/94->	/	**406PHD**
	U-HDB 30, 31			1HD-T	6	24	8/98->	/	**406PHD**
	U-HZB 30, 31, 36V			1HZ	6	24	8/98->	/	**406PHD**
COROLLA	1,5 X-NL40	**1,5**		1N-T	4	12	9/90->8/94	424	**425PHD**
	1,5 NL50	**1,5**		1N-T	4	12	9/94->	419	**425PHD**
	1,5 Q-NL30	**1.5**		1N-T	4	12	5/86->8/90	419	**425PHD**
	1,8 D	**1,8**	47	1C	4	12	5/87->4/92	412	**411PHD**
	1,8 D	**1.8**	44	1CL	4	12	10/82->4/87	211	**411PHD**
	1,8 D	**1.8**	48	1CL	4	12	5/83->12/86	411	**411PHD**
	1,8 D HATCHBACK	**1,8**	47-49	1C	4	12	5/87->4/92	412	**411PHD**
	1,8 D LIFTBACK	**1,8**	47	1C	4	12	5/87->4/92	412	**411PHD**
	1,8 D SEDAN	**1,8**	47	1C	4	12	5/87->4/92	412	**411PHD**
COROLLA	1,8 D WAGON	**1,8**	43	1C	4	12	5/83->7/87	404	**411PHD**
	1.8 D	**1.8**	44	1CL	4	12	5/83->4/87	404	**411PHD**
	2,0 D	**2,0**	53/54	2C	4	12	5/92->8/97	211	**411PHD**
	2,0 D	**2.0**	53	2C-E	4	12	8/97->2/00	211	**411PHD**
	2,0 D	**2,0**	66	2,0TD Mot.1CDFTV(C. RAIL)	4	12	9/00->	/	**642PHD**
	2,0 D SEDAN	**2,0**	82	2,0TD Mot.1CDFTV(C. RAIL)	4	12	9/00->	/	**642PHD**
	2,0 D VERSO	**2,0**	80	2,0TD Mot.1CDFTV(C. RAIL)	4	12	9/00->	/	**642PHD**
	2,0 D WAGON	**2,0**	66	2,0TD Mot.1CDFTV(C. RAIL)	4	12	9/00->	/	**642PHD**
CRESSIDA	2,2 D KOMBI	**2.2**	49	L	4	12	9/80->7/82	420	**425PHD**
	2,2 D KOMBI	**2.2**	49	L	4	12	8/82->	419	**425PHD**
	2,2 D KOMBI	**2.2**	53	L	4	12	9/80->7/84	420	**425PHD**
	2,4 D KOMBI	**2.4**	62	2L	4	12	8/88->	425	**425PHD**
	2,5 D KOMBI	**2.5**	61	2L	4	12	8/84->	420	**425PHD**
	2,5 TD KOMBI	**2.5**	63	2LT	4	12	8/84->8/86	425	**425PHD**
CRESTA	2,5 D Q-LX80	**2.5**	53-61	2L-II, 2L-IIT	4	12	8/88->	424	**425PHD**
CROWN	2,2 D KOMBI	**2.2**	49	L	4	12	8/80->7/83	419	**425PHD**
	2,2 D KOMBI	**2.2**	53	L	4	12	9/79->7/83	420	**425PHD**
	2,5 D KOMBI	**2.5**	53-61	2L	4	12	8/83->8/89	420	**425PHD**
	2,5 D KOMBI	**2.5**	53-61	2L-II, 2L-IIT, 2L-THEII	4	12	8/89->	424	**425PHD**
DYNA	2,0 D	**2.0**		2B	4	24	8/80->	/	**406PHD**
	2,5 D 100	**2.5**	53	2L OHC	4	12	8/85->7/88	419	**425PHD**
	2,5 D 100	**2.5**	53-54	2L	4	12	8/88->	424	**425PHD**
	2,5 D 100	**2.5**	55	2L OHC	4	12	8/85->7/87	420	**425PHD**
	2,5 D 100	**2.5**	55	2L OHC	4	12	8/87->7/88	419	**425PHD**
	2,5 D 100	**2.5**	55	2L	4	12	3/88->	424	**425PHD**
	2,5 D 150	**2.5**	53	2L OHC	4	12	8/85->8/88	419	**425PHD**
	2,5 D 150	**2.5**	55	2L OHC	4	12	8/85->8/87	420	**425PHD**
	2,8 D 150	**2.8**	58	3L	4	12	8/88->	424	**425PHD**
	3,0 D 200	**3.0**	59	B OHV	6	12	8/88->	408	**/**
	3,0 D 200	**3.0**	60	B OHV	6	12	8/87->8/88	408	**/**
	3,0 D 3000	**3.0**		B/ 11B	6	12	1/93->	408	**/**
	3,0 D 3000	**3.0**		B/ 11B	6	24	1/93->	/	**406PHD**
	3,7 D 3700	**3.7**		14B	6	12	1/93->	408	**/**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
TOYOTA									
DYNA	3,7 D 3700	**3.7**		14B	6	24	1/93->	/	**406PHD**
	2,2 D	**2.2**	46		4	12	1/80->10/82	420	**425PHD**
	2,2 D	**2.2**	49	L	4	12	12/82->10/84	419	**425PHD**
	2,2 D PICKUP	**2.2**	49	L	4	12	11/82->7/85	419	**425PHD**
	2,4 D	**2.4**	55	2L	4	12	7/99->	425	**425PHD**
	2,4 D	**2.4**	58	2L	4	12	8/95->	424	**425PHD**
	2,4 TD	**2.4**	66	2LT	4	12	8/95->	424	**425PHD**
HI-ACE	2,5 D	**2.5**	55	2L	4	12	1/84->	425	**425PHD**
	2,5 D 4WD	**2.5**	55	2L	4	12	8/87->7/89	419	**425PHD**
	2,5 D	**2.5**	53-61	2L-II, 2L-T, 3L	4	12	8/88->	424	**425PHD**
	2,5 D	**2.5**	53-61	2L-T, 3L	4	12	8/89->	424	**425PHD**
	2,5 D 4WD	**2.5**	55	2L	4	12	8/89->	424	**425PHD**
	3,0 D	**3.0**		B/ 11B	6	12	1/93->	408	**/**
	3,0 D	**3.0**		B/ 11B	6	24	1/93->	/	**406PHD**
	3,7 D	**3.7**		14B	6	12	1/93->	408	**/**
	3,7 D	**3.7**		14B	6	24	1/93->	/	**406PHD**
	2,2 D	**2.2**	49	L	4	12	8/80->7/83	420	**425PHD**
	2,2 D 4WD	**2.2**	49	L	4	12	8/81->7/83	419	**425PHD**
	2,2 D 4WD	**2.2**	53	L	4	12	9/79->7/83	420	**425PHD**
HI-LUX	2,4 D	**2.4**	55	2L	4	12	9/88->	424	**425PHD**
	2,4 D 4WD	**2.4**	55-59	2L	4	12	9/88->	424	**425PHD**
	2,4 D (TARO)	**2.4**	61	2L	4	12	1/89->	424	**425PHD**
	2,4 TD	**2.4**	66	2L-T	4	12	8/98->	425	**425PHD**
	2,5 D	**2.5**	53-61	2L-II, 2L-TII, 3L	4	12	9/88->	424	**425PHD**
HI-LUX SURF				2C-III T	4	12	8/88->	412	**411PHD**
	3.0 D	**3,0**		3,0 COMMON RAIL		12	10/00->	/	**642PHD**
	2,4 D	**2,4**	53	2L	4	12	11/84->10/85	419	**425PHD**
	2,4 TD	**2,4**	63	2LT	4	12	10/85->12/89	425	**425PHD**
	2,4 TD	**2,4**	66	2L-T	4	12	1/90->5/93	424	**425PHD**
	2,4 D	**2,4**		2B	4	24	2/79->10/81	/	**406PHD**
	2,5 D	**2,5**	66	2L-TE	4	12	4/90->	424	**425PHD**
	2,5 D OPTIONAL	**2,5**	85	VM-HR 492	4	12	1/93->	366PH	**366PHD**
	2,8 D	**2,8**	58	3L	4	12	1/93->	424	**425PHD**
	3,0 D-4D	**3,0**	120	1KD-FTV	4	12	01/03->	/	**642PHD**
	3,0 D	**3,0**	92	1KZ-TE	4	12	5/93->	478	**478PHD**
	3,0 D	**3,0**	92	1KZ-TE	4	12	6/96->	478	**478PHD**
LAND CRUISER	3,4 D	**3,4**	66	3B	4	12	8/80->7/87	211	**411PHD**
	3,4 D	**3,4**	66-69	3B	4	12	8/87->	211	**411PHD**
	3,4 D	**3,4**	66	B, 3B	4	12	8/80->10/84	211	**411PHD**
	3,4 D	**3,4**	66	3B	4	24	8/80->10/81	/	**406PHD**
	3,4 D	**3,4**	66	3B	6	24	10/81->10/84	/	**406PHD**
	3,4 D	**3,4**	66	3B	4	24	11/84->8/88	/	**406PHD**
	3,4 D	**3,4**	70	3B	4	12	3/89->12/89	211	**411PHD**
	4,0 D	**4,0**	76	2H	6	12	8/80->8/87	411	**411PHD**
	4,0 D	**4,0**	76-79	2H	6	12	8/87->1/90	211	**411PHD**
	4,0 D	**4,0**	76	2H	6	24	10/82->8/87	/	**406PHD**
	4,0 TD	**4,0**	100	12HT	6	24	8/87->12/89	/	**406PHD**
	4,2 D	**4,2**	99	1HZ OHC	6	12	1/90->	211	**411PHD**
	4,2 D	**4,2**	125	1HD-FT	6	24	1/95->12/97	/	**406PHD**
	4,2 TD	**4,2**	118-123	1HDT OHC	6	12	1/90->12/97	211	**411PHD**
	4,2 TD	**4,2**	150	HD-FTE	6	24	1/98->	/	**406PHD**
	1,8 D	**1,8**	47	1C	4	12	10/85->8/88	404	**411PHD**
	1,8 D	**1,8**	48	1C	4	12	10/82->8/85	404	**411PHD**
LITE-ACE	1,8 D	**1,8**	47	2C	4	12	8/88->1/92	466	**411PHD**
	2,0 D	**2,0**	51	2C	4	12	7/92->12/96	211	**411PHD**
	2,0 D	**2,0**	53	2C	4	12	8/88->1/92	211	**411PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
TOYOTA									
				L		12	9/79->	420	**425PHD**
MARK II				2L		12	8/84->	419	**425PHD**
	2,5D	**2.5**	53-61	2L-II, 2L-IIT	4	12	8/88->	424	**425PHD**
PICK UP				L (QGS)		12	82->	419	**425PHD**
PREVIA	2,0 D	**2,0**	85	2,0TD Mot.1CDFTV(C. RAIL)	4	12	07/01->	/	**642PHD**
RAV-4	2,0 D	**2,0**	85	2,0TD Mot.1CDFTV(C. RAIL)	4	12	09/01->	/	**642PHD**
STARLET	1,5 D	**1.5**	40	1N	4	12	12/86->	419	**425PHD**
TAMARROW				L (QGS)		12	82->	424	**425PHD**
TARAGO				2C		12		404	**411PHD**
	2,2 D	**2.2**	49	L	4	12	4/80->1/82	420	**425PHD**
	2,5 D	**2.5**		2J	4	12	3/79->8/83	408	**/**
TOYO-ACE	2,5 D	**2.5**		2J	4	24	1/82->	/	**406PHD**
	2,5 D	**2.5**	53	2J OHC	4	12	8/83->7/85	/	**410PHD**
	2,5 D	**2.5**	53-61	2L-II, 3L	4	12	8/88->	424	**425PHD**
				B	4	24	8/80->1/82	/	**406PHD**
				2D		24	3/73->4/77	196	**/**
				2D		24	5/77->	/	**318PHD**
				2D		24	69->2/73	190	**/**
TRUCK				2L		12	73->	419	**425PHD**
				2L		24	73->	/	**410PHD**
				D		24	5/77->	/	**318PHD**
				D		24	69->2/73	190	**/**
				D		24	3/73->4/77	196	**/**
YARIS	1,4 D	**1.4**	55	1ND-TV	4	12	12/01->	/	**660PHD**
YARIS VERSO	1,4 D	**1.4**	55	1ND-TV	4	12	12/01->	/	**660PHD**
UAZ									
425/PP PROMISCUO	D			PEUGEOT	4	12	8/81->	359	**366PHD**
469 B	2,4 TD	**2.4**		VM	4	12	4/86->	430	**608PHD**
	2,5 D	**2.5**		PEUGEOT	4	12	->11/85	359	**366PHD**
UMM									
ALTER	4x4 D			PEUGEOT		12	06/87->	359	**366PHD**
UNIC									
30 U 8	2,5 D	**2.5**	53	Fiat 8140.61	4	12	4/78->12/82	366PH	**366PHD**
35 U 8	2,5 D	**2.5**	53	Fiat 8140.61	4	12	4/78->12/82	366PH	**366PHD**
40 U 8	2,5 D	**2.5**	53	Fiat 8140.61	4	12	4/78->12/82	366PH	**366PHD**
VAUXHALL									
ARENA	1.9 D	**1.9**	44	F8Q-600/606	4	12	3/98->08/01	614PH	**614PHD**
	2,5 D	**2.5**	55	S8U-758	4	12	3/98->08/01->	366PH	**366PHD**
	1.5 E D	**1.5**	37	ISUZU 4 EC1 (S.N 804795->)	4	12	9/84->8/91	339	**339PHD**
	1.5 E D	**1.5**	37	ISUZU 4 EC1 (S.N->804794)	4	12	9/84->8/91	319	**339PHD**
	1.5 E TD	**1.5**	53	ISUZU TC4 EC1 OHC	4	12	9/88->8/91	302	**316PHD**
	1.6 D	**1.6**	40	16 D, DA OHC	4	12	3/82->	359	**366PHD**
	1.7 D	**1.7**	42	17 D OHC II	4	12	1/89->	359	**366PHD**
ASTRA	1.7 TD	**1.7**	60	ISUZU TC4 EE1 OHC	4	12	12/91->	316	**316PHD**
	1.7 TD	**1.7**	60	17 DT/TC4 EE1 OHC Mot. 956633->	4	12	12/91->02/98	457	**457PHD**
	1.7 E TD	**1.7**	60	ISUZU TC4 EE1 OHC(S.N.->817252)	4	12	2/90->8/91	302	**316PHD**
	1.7 E TD	**1.7**	60	ISUZU TC4 EE1 OHC(S.N.817253->)	4	12	2/90->8/91	316	**316PHD**
	1,7 DTI 16V	**1.7**	55/75	4EE2	4	12	2/00->	/	**638PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
VAUXHALL									
	2.0 DI	2.0	60	X20DILC	4	12	98->	/	**622PHD**
ASTRA	2.0 DTI	2.0	74	Y20DTH,Y20DTL	4	12	8/99->	/	**622PHD**
	2.0 DTI	2,0	60	X 20 DLC	4	12	09/97->02/98	613PH	**613PHD**
BELMONT	1.6 D	1.6		DOHC	4	12	3/82->9/93	359	**366PHD**
BRAVA	2,5 PICK-UP	2.5	56	4JA1	6	12	3/92->	366PH	**366PHD**
	2.2 D Pick-up	2.2	45	ISUZU-4FD1	4	12	2/91->8/97	339	**339PHD**
CARLTON	2.3 D	2.3	51	23 D	6	12	5/83->8/86	359	**366PHD**
	2.3 TD	2.3	74		6	12	3/92->	359	**366PHD**
	1.6 D	1.6	40	16 D/DA OHC	4	12	3/82->8/88	359	**366PHD**
	1.7 D	1.7	42	17 D	4	12	9/88->8/95	359	**366PHD**
CAVALIER	1.7 TD	1.7		ISUZU	4	12	9/95->	457	**457PHD**
	1.7 TD	1.7	60	ISUZU TC4 EC1(S.N.->817252)	4	12	3/90->8/95	302	**316PHD**
	1.7 TD	1.7	60	ISUZU TC4 EC1(S.N.817253->)	4	12	3/90->8/95	316	**316PHD**
	1.7 TD (III)	1.7	60	17 DT/TC4 EE1 OHC	4	12	10/92->08/95	457	**457PHD**
COMBO	1,7D	1.7	44	X 17 D 4EE1 OHC	4	12	04/96->	457	**457PHD**
	1.5 D	1.5	37	ISUZU 15 D/4 EC1 AAD S.N. 804795->	4	12	90->93	339	**339PHD**
	1.5 D	1.5	37	ISUZU 15 D/4 EC1 AAD S.N.->804794	4	12	87->89	319	**339PHD**
	1.5 D	1.5	37	15 D 4EC1 OHC	4	12	08/93->08/00	457	**457PHD**
	1.5 TD	1.5	49	15DT/T4,EC1 AADT OHC S.N->804794	4	12	88->89	302	**316PHD**
	1.5 TD	1.5	49	T4EC1 AADT OHC S.N.804795->	4	12	90->2/93	316	**316PHD**
CORSA	1.5 TD	1.5	49	15 TD T4EC1OHC	4	12	08/93->08/00	457	**457PHD**
	1.5 XD	1.5	37	X15 D 4EC1 OHC	4	12	04/96->08/00	457	**457PHD**
	1.5 XTD	1.5	49	X15 TD 4EC1 OHC	4	12	04/96->08/00	457	**457PHD**
	1,7 D	1.7	44	X17 D 4EE1 OHC	4	12	04/96->08/00	457	**457PHD**
	1,7 DI 16V	1.7	65	4EE2	4	12	01/01->	/	**638PHD**
	1,7DTI 16V	1.7	75	4EE2	4	12	01/01->	/	**638PHD**
	2.2 DTI 16V	2.2	85	X22DTH	4	12	10/97->	/	**622PHD**
FRONTERA	2.5 TDI	2.5	85	25TD/TDS OHC	4	12	9/96->10/98	405PH	**405PHD**
	2,3 ESTATE TD	2.3	74	DTR OHC	4	12	3/92->2/95	366PH	**366PHD**
	A 2.8 TDI	2,8	83	28TD 4JB1T (28TDI) ISUZU	4	12	2/95->	386	**386PHD**
	2.0 DI 16V	2.0	60	X20DILC	4	12	9/96->8/97	613PH	**613PHD**
	B 2.0 DTI	2.0	74	X20DILC	4	12	9/97->	/	**622PHD**
	2,0 DTI	2,0	74	X20DTH	4	12	02/98->	/	**622PHD**
OMEGA	B 2.5 TD	2.5	96	BMW U25 TD OHC R6	6	12	1/94->	366PH	**366PHD**
	C 2,0 DTI 16V	2,0	74	Y 20 DTH	4	12	9/99->	/	**649PHD**
	C 2,2 DTI 16V	2.2	88	Y 22 DTR	4	12	10/00-<	/	**649PHD**
	2.0 DI 16V	2.0	74	X20DILC	4	12	9/97->	/	**622PHD**
MONTEREY	3.0 TD	3,0	117/165	4JX1	4	12	07/98->	/	**666PHD**
	3.1 TD	3.1	84	ISUZU C4 JG2	4	12	9/91->	316	**316PHD**
	1.9 DTI	1,9	59-60	F9Q-770	4	12	12/99->	/	**628PHD**
MOVANO	2,2 DTI	2.2	66	G9T-720	4	12	09/00->	/	**640PHD**
	2.5 D	2.5	59	S8U-772	4	12	7/98->	604PH	**604PHD**
	2,8 DTI	2,8	84	S9W700-702	4	12	7/98->	615PH	**615PHD**
	1.5 D	1.5	37	ISUZU 15D/4 EC1AAD(S.N.804795->)	4	12	9/87->2/93	339	**339PHD**
NOVA	1.5 D,TD	1.5		OPEL	4	12	7/87->	359	**366PHD**
	1.5 TD	1.5	49	ISUZU 15DT/T4 EC1AADT(S.N.->804794)	4	12	3/88->2/93	302	**316PHD**
	1.5 TD	1.5	49	ISUZU 15DT/T4 EC1AADT(S.N.804795->)	4	12	3/88->2/93	316	**316PHD**
SIGNUM	2,0 DTI	2.0	74		4	12	05/03->	/	**622PHD**
	2,2 DTI	2.2	92		4	12	05/03->	/	**649PHD**
SINTRA	2,2 DTI	2.2	85	X22DTH	4	12	07/97->04/99	/	**622PHD**
	1.7 TD	1.7	60	X17 DT OHC Turbo <TC4 EE1>	4	12	09/95->	457	**457PHD**
VECTRA	2.0 DTI	2.0	60	X20DILC	4	12	11/96->8/97	613PH	**613PHD**
	2.0 DI 16V	2.0	74	X20DILC	4	12	9/97->	/	**622PHD**
	2,2 TDI 16V	2.2	92	Y20DTH, Y 22 DTR	4	12	08/00->	/	**649PHD**
ZAFIRA	2.0 DI 16V	2.0	60	X20DTH, X20DTL	4	12	9/99->	/	**622PHD**
	2,2 DTI	2.2	92	Y22DTR	4	12	01/02->	/	**649PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
VOLKSWAGEN									
BORA	1,9 SDI	1,9	50	AGP, AQM	4	12	9/98->	611PH	**611PHD**
	1,9 TDI	1.9	74	ATD, AXR	4	12	09/00->	/	**647PHD**
	1,9 TDI	1.9	96	ASZ	4	12	11/00->	/	**647PHD**
	1,9 TDI	1.9	110	AXR	4	12	10/01->	/	**647PHD**
	1,9 TDI	1,9	66	AGR, ALH	4	12	9/98->	611PH	**611PHD**
	1,9 TDI	1,9	66	COOLING WATER HEATER	3	12	9/98->	607PH	**607PHD**
	1,9 TDI	1,9	81	AHF	4	12	9/98->	611PH	**611PHD**
	1,9 TDI	1,9	81	COOLING WATER HEATER	3	12	9/98->	607PH	**607PHD**
	1,9 TDI	1,9	85	AJM	4	12	9/98->	611PH	**611PHD**
	1,9 TDI	1,9	85	COOLING WATER HEATER	3	12	9/98->	607PH	**607PHD**
	1,9 TDI	1,9	66	ANU	4	12	1/99->	611PH	**611PHD**
	1,9 TDI	1,9	66	COOLING WATER HEATER	3	12	1/99->	607PH	**607PHD**
	1,9 TDI	1,9	110	ARL	4	12	05/00->	611PH	**611PHD**
	1,9 TDI	1,9	110	COOLING WATER HEATER	3	12	05/00->	607PH	**607PHD**
	1,9 TDI	1,9	74	ATD	4	12	10/00->	611PH	**611PHD**
	1,9 TDI	1,9	74	COOLING WATER HEATER	4	12	10/00->	607PH	**607PHD**
BUS	1,6 D	1.6	37	CS	4	12	1/81->7/87	354	**348PHD**
	1,6 TD	1.6	51	JX	4	12	8/84->7/92	354	**348PHD**
	1,8 D	1,8	42	KY	4	12	8/84->7/92	348PH	**348PHD**
	1,9 D	1,9	44	1X	4	12	8/90->12/95	348PH	**348PHD**
	1,9 TD	1,9	50	ABL	4	12	9/92->4/98	348PH	**348PHD**
	2,4 D	2,4	55	AJA	5	12	5/97->4/98	348PH	**348PHD**
	2,4 TD	2,4	57	AAB	5	12	8/90->4/98	348PH	**348PHD**
	2,5 TDI	2,5	75	ACV	5	12	8/95->4/98	611PH	**611PHD**
	2,5 TDI	2,5	111	AHY	5	12	5/98->	/	**626PHD**
	2,5 TDI	2,5	65	AJT	5	12	5/98->	/	**626PHD**
CADDY	1,6 D	1.6	40	JK, ME	4	12	->7/92	354	**348PHD**
	1,7 SDI	1.7	42	AHB	4	12	10/96->	611PH	**611PHD**
	1,9 D	1.9	47	AEF, 1Y	4	12	11/95->	348PH	**348PHD**
	1,9 TDI	1,9	66	AHU	4	12	9/96->	611PH	**611PHD**
	1,9 TDI	1,9	66	COOLING WATER HEATER	3	12	9/96->	607PH	**607PHD**
	1,9 TDI	1,9	66	ALE	4	12	9/97->	611PH	**611PHD**
	1,9 TDI	1,9	66	COOLING WATER HEATER	3	12	9/97->	607PH	**607PHD**
CALIFORNIA	1,9 D	1.9	45	1X	4	12	9/90->7/95	348PH	**348PHD**
	1,9 TD	1,9	50	ABL	4	12	8/92->3/98	348PH	**348PHD**
	2.4 D	2.4	57	AAB	5	12	9/90->4/98	348PH	**348PHD**
	2.5 TDi	2.5	75	ACV	5	12	8/95->3/98	611PH	**611PHD**
	2,5 TDI	2,5	65	AJT	5	12	5/98->	/	**626PHD**
CARAVELLE	1,9 D	1,9	45	1X	4	12	10/90->4/97	348PH	**348PHD**
	1,9 TD	1,9	50	ABL	4	12	10/92->	348PH	**348PHD**
	2,4 D, SYNCRO	2,4	57	AAB	4	12	9/90->	348PH	**348PHD**
	2,5 TDI	2,5	75	ACV	5	12	7/95->	611PH	**611PHD**
	2,8 TDI	2.8	92	AGK	4	12	7/97->	/	**639PHD**
EUROVAN	2,4 D	2,4	57	AAB	5	12	10/92->	348PH	**348PHD**
	2,5 TDI	2,5	75	ACV	5	12	1/95->	611PH	**611PHD**
GOLF I	1.5 D	1.5	37	CK	4	12	->7/80	354	**348PHD**
	1.6 D	1.6	40	CR, JK	4	12	8/80->12/84	354	**348PHD**
	1,6 TD	1.6	51	CY	4	12	3/82->12/83	348PH	**348PHD**
GOLF II	1,6 D	1.6	40	ME, JK, JP	4	12	5/88->7/92	354	**348PHD**
	1,6 D	1.6	44	1V	4	12	8/89->7/92	354	**348PHD**
	1,6 TD	1,6	51	MF, JR	4	12	5/88->10/91	354	**348PHD**
	1,6 TD	1,6	59	RA, SB	4	12	4/89->10/91	354	**348PHD**
GOLF III	1,9 D	1.9	47	1Y	4	12	11/91->8/98	348PH	**348PHD**
	1,9 TD	1.9	55	AAZ	4	12	11/91->8/98	348PH	**348PHD**
	1,9 TDi	1.9	66	1Z	4	12	8/93->7/96	611PH	**611PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
VOLKSWAGEN									
	1,9 TDi	1.9	66	COOLING WATER HEATER	3	12	8/93->7/96	607PH	**607PHD**
	1,9 TDi	1.9	81	AFN	4	12	2/96->8/98	611PH	**611PHD**
	1,9 TDi	1.9	81	COOLING WATER HEATER	3	12	2/96->8/98	607PH	**607PHD**
GOLF III	1,9 TDi	1.9	66	ALE, AHU	4	12	5/96->8/98	611PH	**611PHD**
	1,9 TDi	1.9	66	COOLING WATER HEATER	3	12	5/96->8/98	607PH	**607PHD**
	1,9 VARIANT TDi	1.9	47-81	1Z,AEY,AFN	4	12	3/94->	611PH	**611PHD**
	1,9 SDI	1.9	50	AGP, AQM	4	12	97->	611PH	**611PHD**
	1,9 TDi	1.9	66	AGR, ALH	4	12	10/97->	611PH	**611PHD**
	1,9 TDi	1.9	74	ATD, AXR	4	12	10/00->	/	**647PHD**
	1,9 TDi	1.9	74	COOLING WATER HEATER	3	12	10/00->	607PH	**607PHD**
	1,9 TDI	1.9	96	ASZ	4	12	11/00->	/	**647PHD**
	1,9 TDi	1,9	81	AHF	4	12	10/97->	611PH	**611PHD**
GOLF IV	1,9 TDi	1,9	81	COOLING WATER HEATER	3	12	10/97->	607PH	**607PHD**
	1,9 TDi	1,9	85	AJM	4	12	8/98->	611PH	**611PHD**
	1,9 TDi	1,9	85	COOLING WATER HEATER	3	12	8/98->	607PH	**607PHD**
	1,9 TDi	1,9	66	ANU	4	12	1/99->	611PH	**611PHD**
	1,9 TDi	1,9	66	COOLING WATER HEATER	3	12	1/99->	607PH	**607PHD**
	1,9 TDI	1.9	110	ARL	4	12	10/01->	/	**647PHD**
	1,9 TDi	1,9	110	ARL	4	12	01/00->	611PH	**611PHD**
	1,9 TDi	1,9	110	COOLING WATER HEATER	3	12	01/00->	607PH	**607PHD**
ILTIS 12 Volts	1,6 D	1.6	51	1C	4	12	87-88	348PH	**348PHD**
ILTIS 24 Volts	1,6 D	1.6	51	1C	4	24	87-88	/	**348PHD/24**
	1,6 D	1.6	40	CR, JK	4	12	8/80->2/84	354	**348PHD**
JETTA	1,6 D	1.6	40-44	JP, ME, 1V	4	12	12/83->7/92	354	**348PHD**
	1,6 TD	1.6	51	CY, JR, MF	4	12	8/82->10/91	354	**348PHD**
	1,6 TD	1,6	59	RA, SB	4	12	4/89->10/91	354	**348PHD**
	1,2 TDI	1.2	45	ANY, AYZ	3	12	07/99->	/	**647PHD**
	1,2 TDI	1,2	45	ANY	3	12	10/98->	611PH	**611PHD**
LUPO	1,4 TDI	1.4	55	AMF	3	12	01/99->	/	**647PHD**
	1,7 SDI	1.7	42	AKU	4	12	10/98->	611PH	**611PHD**
	1,7 SDI	1.7	42	COOLING WATER HEATER	3	12	10/98->	607PH	**607PHD**
	2.4 TD	2.4	68-70	1G,ACL	6	12	8/88->12/95	348PH	**348PHD**
	2.5 SDi	2.5	55	AGX	5	12	7/96->	611PH	**611PHD**
	2.5 TDi	2.5	75	AHD, ACV	5	12	8/95->4/97	611PH	**611PHD**
LT	2.5 TDi	2.5	66	APA	5	12	5/99->	611PH	**611PHD**
	2,4 D	2,4	51	1S, ACT	6	12	8/88->12/95	348PH	**348PHD**
	2,4 D	2,4	55	CP, DW	6	12	8/78->7/92	354	**348PHD**
	2,4 TD	2,4	55-75	DW	6	12	12/82->7/92	354	**348PHD**
	2,5 TDI	2,5	80	ANJ	5	12	1/99->	611PH	**611PHD**
	2,8 TDI	2.8	92	AGK	4	12	07/97->12/98	/	**639PHD**
	2,8 - 46 II TDI	2.8	116	AUH	4	12	04/02->	/	**680PHD**
MULTIVAN T4	2.5 TDi	2.5	65	AJT	5	12	5/98->	/	**626PHD**
	1,9 D	1,9	44	1X	4	12	9/90->4/97	348PH	**348PHD**
	1,9 TD	1,9	50	ABL	4	12	10/92->	348PH	**348PHD**
	2,4 D	2,4	55-57	AAB, AJA	5	12	9/90->4/98	348PH	**348PHD**
MULTIVAN	2,5 TDI	2,5	75	ACV	5	12	8/95->4/98	611PH	**611PHD**
	1,9 TDI	1.9	77	AXB	4	12	04/03->	/	**647PHD**
	1,9 TDI	1.9	96	AXD	5	12	04/03->	/	**647PHD**
	2,5 TDI	2.5	128	AXE	5	12	04/03->	/	**647PHD**
	1,9 TDI	1.9	66	ALH, AGR	4	12	1/98->02/01	611PH	**611PHD**
	1,9 TDI	1.9	66	COOLING WATER HEATER	3	12	1/98->02/01	607PH	**607PHD**
NEW BEETLE	1,9 TDI, CABRIO	1,9	74	ATD	4	12	02/01->	/	**647PHD**
	1,9 TDI, CABRIO	1,9	74	COOLING WATER HEATER	3	12	02/01->	607PH	**607PHD**
	1,9 TDI, CABRIO	1,9	74	AXR	4	12	03/03->	/	**647PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
VOLKSWAGEN									
	1,5 D	1.5	37	CK	4	12	->10/80	354	**348PHD**
	1,6 D	1.6	40	CR, JK	4	12	8/80->3/88	354	**348PHD**
	1,9 D	1.9	47	1Y	4	12	5/89->10/93	354	**348PHD**
	1,6 TD	1,6	59	RA, SB	4	12	8/88->10/93	354	**348PHD**
	1,6 TD	1.6	51	CY	4	12	12/81->3/88	354	**348PHD**
	1,9 TD	1.9	55	AAZ	4	12	3/91->12/96	348PH	**348PHD**
	1,9 TDI	1,9	85	AJM	4	12	11/98->	611PH	**611PHD**
PASSAT	1,9 TDI	1,9	85	COOLING WATER HEATER	3	12	11/98->	607PH	**607PHD**
	1,9 TDI	1,9	96	AVF	4	12	10/00->	611PH	**611PHD**
	1,9 TDI	1,9	96	COOLING WATER HEATER	3	12	10/00->	607PH	**607PHD**
	1,9 TDI	1.9	66	1Z	4	12	10/93->	611PH	**611PHD**
	1,9 TDI	1.9	66	COOLING WATER HEATER	3	12	10/93->	607PH	**607PHD**
	1,9 TDI	1.9	81	AFN	4	12	12/95->	611PH	**611PHD**
	1,9 TDI	1.9	81	COOLING WATER HEATER	3	12	12/95->	607PH	**607PHD**
	1,9 TDI	1.9	66	AHU, AHH	4	12	8/96->	611PH	**611PHD**
	1,9 TDI	1.9	66	COOLING WATER HEATER	3	12	8/96->	607PH	**607PHD**
	2,5 TDI	2,5	110	AFB, AHN	6	12	8/98->	/	**626PHD**
	2,5 TDI	2.5	120	BDG	6	12	05/03->	/	**626PHD**
	2,5 TDI 4MOTION	2.5	130	BAU , BDH	6	12	01/03->	/	**626PHD**
PHAETON	5,0 V10 TDI	5.0	230	AJS	10	12	11/02->	/	**647PHD**
	1,3 D	1.3	33	MN	4	12	8/85->7/90	354	**348PHD**
	1,4 D	1.4	35	1W	4	12	10/90->7/94	348PH	**348PHD**
	1,4 TDI	1,4	55	AMF	4	12	1/99->09/01	611PH	**611PHD**
	1,4 TDI	1,4	55	BAY	4	12	10/01->	/	**647PHD**
	1,9 D	1,9	47	1Y, AEF	4	12	1/96->	348PH	**348PHD**
POLO	1,7 SDi	1,7	42	AHB, AHG, AKU, AKW	4	12	1/96->	611PH	**611PHD**
	1,7 SDi	1,7	44	AKU	4	12	10/99->	611PH	**611PHD**
	1,9 SDI	1,9	47	AEY, AGD	4	12	12/95->4/98	611PH	**611PHD**
	1,9 SDI	1,9	47	AGD, ASX	4	12	10/99->09/01	611PH	**611PHD**
	1,9 TDI	1.9	74	ATD, AXR	4	12	10/01->	/	**647PHD**
	1,9 TDI	1,9	81	AFN	4	12	6/98->	611PH	**611PHD**
	1,9 TDI	1,9	81	COOLING WATER HEATER	3	12	6/98->	607PH	**607PHD**
	1,9 TDI	1,9	66	AHU, ALE	4	12	1/97->	611PH	**611PHD**
	1,9 TDI	1,9	66	COOLING WATER HEATER	3	12	1/97->	607PH	**607PHD**
SANTANA	1,6 D	1.6	40	CR, JK	4	12	8/81->	354	**348PHD**
	1,6 TD	1.6	51	CY	4	12	12/81->	354	**348PHD**
	1,9 TDI	1.9	66-81	1Z, AFN, AHU	4	12	9/95->4/00	611PH	**611PHD**
SHARAN	1,9 TDI	1.9	66-81	COOLING WATER HEATER	3	12	9/95->4/00	607PH	**607PHD**
	1,9 TDI	1.9	85	AJM	4	12	4/00->	611PH	**611PHD**
	1,9 TDI	1.9	85	COOLING WATER HEATER	3	12	4/00->	607PH	**607PHD**
TARO	2,4 D	2.4	61	2L	4	12	1/89->	424	**425PHD**
TOUAREG	2,5 R5 TDI	2.5	128	BAC	5	12	01/03->	/	**647PHD**
	5,0 V10 TDI	5.0	230	AJS	10	12	10/02->	/	**647PHD**
	1,6 D	1,6	37	CS	4	12	1/81->7/87	354	**348PHD**
	1,6 TD	1,6	51	JX	4	12	8/84->7/92	354	**348PHD**
	1,7 D	1,7	42	KY	4	12	10/86->7/92	354	**348PHD**
	1,9 D	1,9	45	1X	4	12	9/90->4/97	348PH	**348PHD**
TRANSPORTER	1,9 TD	1,9	50	ABL	4	12	10/92->	348PH	**348PHD**
	2,4 D	2,4	55	AJA	5	12	4/97->4/98	348PH	**348PHD**
	2,4 TD	2,4	57	AAB	5	12	9/90->4/98	348PH	**348PHD**
	2,5 TDI	2.5	65	AJT	5	12	5/98->	/	**626PHD**
	2,5 TDI	2,5	75	ACV	5	12	1/95->	611PH	**611PHD**
	1,9 TDI	1.9	63	AXC	4	12	04/03->	/	**647PHD**
TRANSPORTER V	1,9 TDI	1.9	77	AXB	4	12	04/03->	/	**647PHD**
	2,5 TDI	2.5	96	AXD	5	12	04/03->	/	**647PHD**
	2,5 TDI	2,5	128	AXE	5	12	04/03->	/	**647PHD**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
VOLKSWAGEN									
TRANSPORTER T4	2,5 TDI	**2,5**	111	AHY	5	12	5/98->	/	**626PHD**
	1,9 D	**1.9**	47	1Y	4	12	11/91->	348PH	**348PHD**
	1,9 TD	**1.9**	55	AAZ	4	12	11/91->12/97	348PH	**348PHD**
	1,9 TDI	**1,9**	81	AFN	4	12	2/96->12/97	611PH	**611PHD**
VENTO	1,9 TDI	**1,9**	81	COOLING WATER HEATER	3	12	2/96->12/97	607PH	**607PHD**
	1,9 TDI	**1.9**	66	1Z, AHU, ALE	4	12	7/93->	611PH	**611PHD**
	1,9 TDI	**1.9**	66	COOLING WATER HEATER	3	12	7/93->	607PH	**607PHD**
	1.9 SDi	**1.9**	47	AEY	4	12	1/95->12/97	611PH	**611PHD**
VOLVO									
240	2.0 D	**2.0**	50	D 20	4	12	4/79->81	354	**348PHD**
	2.4 D	**2.4**	60	D 24	4	12	4/79->8/93	354	**348PHD**
340	1,6 D	**1.6**	40	D 16	4	12	9/84->7/91	602PH	**602PHD**
360	1,6 D	**1.6**	40	D 16	4	12	7/84->7/91	602PH	**602PHD**
	1,8 D	**1,8**	44	XUD7	4	12	9/98->	366PH	**366PHD**
340	1,6 D	**1.6**	40	D 16	4	12	9/84->7/91	602PH	**602PHD**
360	1,6 D	**1.6**	40	D 16	4	12	9/84->7/91	602PH	**602PHD**
	1,8 D	**1.8**	44	XUD 7	4	12	9/98->	366PH	**366PHD**
440	1,9 TD	**1.9**	66	RENAULT F8Q TURBO	4	12	1/93->8/97	600PH	**600PHD**
460	1,9 TD	**1.9**	66	D 19 T	4	12	6/94->8/97	600PH	**600PHD**
	2,4 D	**2.4**	60	D 24	6	12	4/84->7/92	354	**348PHD**
740	2,4 TD	**2.4**	80	D 24 T	6	12	4/87->7/92	354	**348PHD**
	2,4 TD INTERCOOLER	**2.4**	85	D 24 TIC	6	12	4/87->7/92	354	**348PHD**
760	2,4 TD	**2.4**	80	D 24 T	6	12	8/82->7/87	354	**348PHD**
	2,4 TD INTERCOOLER	**2.4**	85	D 24 TIC	6	12	8/87->7/92	354	**348PHD**
780	2,4 TD	**2.4**	85	D 24 TIC	6	12	8/85->7/91	354	**348PHD**
850	2,5 TDI	**2.5**	103	AUDI AEL, D5252	5	12	8/95->	611PH	**611PHD**
	2,4 GL, GLE	**2.4**	85	D 24 TIC	6	12	9/90->8/97	348PH	**348PHD**
940	2,4 TD	**2.4**	80	D 24,D 24 T	6	12	9/90->8/93	348PH	**348PHD**
	2,4 TD INTERCOOLER/KOMBI	**2.4**	90	D 24 TIC	6	12	1/94->8/97	348PH	**348PHD**
960	2,4 TD INTERCOOLER	**2.4**	85	D 24 TIC	6	12	9/91->8/97	348PH	**348PHD**
S 40	1.9 TD	**1.9**	66	F8Q	4	12	5/96->	600PH	**600PHD**
S 60	2,4 D5	**2.4**	120	D 5244T2	5	12	10/01->	/	**826PHD**
	2,5 TDI	**2,5**	103	D 5252T	5	12	07/01->	611PH	**611PHD**
S 70	2.5 TDI	**2.5**	103	D 5252T	5	12	4/97->	611PH	**611PHD**
S 80	2,4 D	**2.4**	96		5	12	10/01->	/	**826PHD**
S 80	2,4 D5	**2.4**	120	D 5244T2	5	12	1/01->	/	**826PHD**
	2.5 TDI	**2.5**	103	D 5252T	5	12	1/99->	611PH	**611PHD**
V 40	1.9 TD	**1.9**	66	F8Q	4	12	1/96->	600PH	**600PHD**
	2,4 D	**2.4**	96		5	12	12/01->	/	**826PHD**
V 70	2,4 D5	**2.4**	120	D 5244T2	5	12	1/01->	/	**826PHD**
	2,5 TDI	**2.5**	103	D 5252T	5	12	4/97->	611PH	**611PHD**
XC 70	2,5 D5	**2.5**	120	D 5244T	5	12	09/02->	/	**826PHD**
V 90	3,6 F 407/408	**3.6**	80-88	TD 40 A	4	12	4/78->2/86	608PH	**608PHD**
XC 90	2,4 D5	**2.4**	120	D 5244T2	5	12	10/02->	/	**826PHD**
Aktiv S 800				Perkins 4-154 (TA)		12	01/72->12/75	1501TS	**/**
	Harvester			Perkins 4-154 (TA)		12	01/70->	1501TS	**/**
Combine				Perkins 4-236 (TA)		12	01/66->12/69	1501TS	**/**
				Perkins 4-108 (TA)		12	01/66->12/70	1501TS	**/**
	Agric Tractor			Perkins D3-152 (TA)		12	01/69->	1501TS	**/**
D 430	Buster			Perkins D3-152 (TA)		12	01/69->12/70	1501TS	**/**
	Tractor			Perkins D3-152		12	01/69->	1501TS	**/**
				Perkins D3-152 (TA)		12	01/69->12/70	1501TS	**/**
F 82 Truck				Perkins 4-236		12	01/72->	1501TS	**/**
				Perkins 4-236		12	26299	1501TS	**/**

■ = not yet in production

Application List

CAR MAKER VEHICLE	MODEL	cc.	KW	ENGINE	Cyl	V	YEAR	Standard *Single Coil*	PHD *Twin Coil*
VOLVO									
G 65 & G 80				Perkins 4-236		12	01/73->	1504TS	/
Industrial Tractor				Perkins D3-152 (TA)		12	01/69->	1501TS	/
Lapplander Jeep				Perkins 4-108		12	01/71->12/75	1501TS	/
S 830				Perkins 4-154 (TA)		12	01/72->12/75	1501TS	/
S 900	Combine			Perkins 4-236 (TA)		12	01/69->	1501TS	/
				Perkins 4-248 (TA)		12	01/68->	1501TS	/
SM 462 Combine				Perkins 3-152 (TA)		12	01/72->	1501TS	/
ST 257, 280				Perkins 4-99		12	01/72->	1501TS	/
				Perkins 4-107 (TA)		12	01/72->12/75	1501TS	/
ST 257, Combine				Perkins 4-107 (TA)		12	01/66->12/70	1501TS	/
T 400 Terrier				Perkins D3-152 (TA)		12	01/72->12/75	1501TS	/
T 430				Perkins D3-152 (TA)		12	01/72->12/75	1501TS	/
T 430-1				Perkins D3-152 (TA)		12	01/72->12/75	1501TS	/
T 500				Perkins 4-236 (A)		12	01/74->	1504TS	/
Terrier Tractor				Perkins 3-150 (TA)		12	01/68->12/70	1501TS	/
				Perkins 3-152 (TA)		12	01/65->12/70	1501TS	/
VF 82-83	Truck			Perkins 4-236 (V)		12	01/69->	1501TS	/
				Perkins 4-236		12	01/67->12/68	1501TS	/
VOLVO PENTA									
AQD 19, 21A					4	12		449	/
AQD 27, 29A					6	12		449	/
AQD 29A, MD 29A					6	24		445	/
AQD 32A					6	12		449	/
AQD 32A, MD 32A					6	24		445	/
MD 19, 21A					4	12		449	/
MD 21A					4	24		445	/
MD 27, 32A					6	12		449	/
MD 29A					6	12		449	/
YANMAR									
COMBINE	CA125.140.160			3TN63-U1C, 3TN66-U1C, 3TNA68-U1C	3	12		700	**306PHD**
	CA15			3TNA68U	3	12		700	**306PHD**
	CA15G			3TNA68U-C	3	12		700	**306PHD**
	CA17.19.21			3T70B-NAC, 3T70B-NBC, 3T72H-NAC	3	12		700	**306PHD**
	CA17G.17DT, CA19G.19DT			3TNA72-UBC	3	12		700	**306PHD**
	CA19DG.21DG			3TNA72-UAC, 3TN75-RAC	3	12		700	**306PHD**
YANMAR									
COMBINE	CA21G.21DT			3TNA75-RAC	3	12		700	**306PHD**
				3TNT5U, 3TNA72-UJ, 3TN66/E	3	12		700	**306PHD**
CONSTR. MACHIN.	B-08, B-12, B-17			3TNA72L-UBA/UBB, 3TN66L-UB	3	12		700	**306PHD**
	Vi-1			3TN66L-UKB	3	12		700	**306PHD**
	Vio15, Vio20			3TNE68L-UBA/UBB	3	12		700	**306PHD**
GENERATOR				3TN66L- UGH/UGCD	3	12		700	**306PHD**
TRACTORS	AF-15.16.17.18			3TNA72-UIA, 3TNE74-UIA	3	12		700	**306PHD**
	F13.14.15.16,F(X)17			3TNA70UK, 3TNA70UN, 3TNA72UN	3	12		700	**306PHD**
	F5.6.7(D)			3TNA72, 3TN75	3	12		700	**306PHD**
	FX16.17.18.20.22(D)			3TN75-UA.UB, 3TN80-U, 3TN82-U	3	12		700	**306PHD**
	FX26.28.32.42(D)			4TN78-UM.UP.UK	4	12		700	**306PHD**
	Ke-2, Ke-3, Ke-2A, Ke-3A			3TNA68-UNK, 3TN66-U/UNK	3	12		700	**306PHD**
	Ke-4A			3TN68-UNK, 3TN72-UNK	3	12		700	**306PHD**
				3TNA72	3	12		700	**306PHD**
ZUK									
TRANSPORTER	2,4 D	**2,4**	51-68	C90, CT90	4	12		434	/

■ = **not yet in production**

Application List for interior compartment

MODEL	NR° MODEL	V	Single Coil
EBERSPACHER			
B5W	20 1645 05 00 00	12	882
B5W	20 1677 05 00 00	12	882
B5W	20 1690 05 00 00	12	882
D1L	25 1384 05 00 00	12	882
D1L	25 1385 05 00 00	12	882
D1L	25 1531 05 00 00	12	882
D1L	25 1532 05 00 00	12	882
D1L	25 1612 05 00 00	12	882
D1L	25 1637 05 00 00	12	882
D1L	25 1638 05 00 00	12	882
D1L	25 1639 05 00 00	12	882
D2L	25 1507 05 00 00	12	882
D2L	25 1534 05 00 00	12	882
D2L	25 1597 05 00 00	12	882
D2L	25 1625 05 00 00	12	882
D2L	25 1632 05 00 00	12	882
D2L	25 1684 05 00 00	12	882
D2L	25 1690 05 00 00	12	882
D2L	25 1725 05 00 00	12	882
D2LS	25 1529 05 00 00	12	882
D2LS	25 1541 05 00 00	12	882
D3L	25 1482 05 00 00	12	882
D3L	25 1483 05 00 00	12	882
D3L	25 1573 05 00 00	12	882
D3L	25 1640 05 00 00	12	882
D3L	25 1641 05 00 00	12	882
D3L	25 1642 05 00 00	12	882
D3L	25 1738 05 00 00	12	882
D3L	25 1739 05 00 00	12	882
D5W	25 1599 05 00 00	12	882
D5W	25 1600 05 00 00	12	882
D5W	25 1670 05 00 00	12	882
D5W	25 1671 05 00 00	12	882
D5W	25 1732 05 00 00	12	882
D5W	25 1733 05 00 00	12	882
WEBASTO			
BBW 46 (12V)		12	881
DBW 46 (12V)		12	881
DBW 46.11 (24V)		24	883
DBW 46.22 (24V)		24	883
DBW 46.33 (24V)		24	883
DBW 46.36 (24V)		24	883
DBW 46.56 (24V)		24	883
HL 18 B (12V)		12	881
HL 18 D (12V)		12	881
HL 18 B 03 (24V)		24	883
HL 20 (24V)		24	883
HL 24 B 62 (24V)		24	883
HL 24 D 02 (24V)		12	881
HL 32 B (12V)		24	883
HL 32 B (24V)		24	883
HL 32 D 04 (24V)		24	883
HL 32 D 06 (24V)		24	883
HL 32 B 64 (24V)		24	883
HL 65, 95 (12/24V)		4	880
HL 3003		4	880
HL 3030		4	880

MODEL	NR° MODEL	V	Single Coil
WEBASTO			
HL 5001, 6502		4	880
HL 6504		4	880
HL 6511, 6512 (12V/24V)		4	880
HL 9503		4	880
HL 9511, 9512 (12/24V)		4	880
HL 10011, 12503 (12V)		4	880
WB 14003		4	880
30 HL 1 A M 1		4	880
65 A		4	880
80 W, 120 W		4	880
180 W, 180 WB		4	880

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	**Single Coil**	**Twin Coil**	**V**
A C			
12 G	454	**/**	11.0
13 G	914	**/**	11.0
27 G	480	**/**	11.0
32 G	416	**416PHD**	5.0
7 G	453	**453PHD**	6.0
8 G	418	**418PHD**	11.5
9 G	/	**413PHD**	6.0
101 G	/	**625PHD**	11.5
AUTOLITE			
1105	/	**413PHD**	6.0
1106	453	**453PHD**	6.0
1107	418	**418PHD**	11.5
1108	416	**416PHD**	5.0
1109	454	**/**	11.0
BERU			
0 100 100 203	452	**/**	1.7
0 100 101 302	486	**/**	0.9
0 100 101 305	486	**/**	0.9
0 100 101 306	486	**/**	0.9
0 100 101 308	450	**/**	0.9
0 100 220 101	355	**348PHD**	11.0
0 100 220 103	355	**348PHD**	11.0
0 100 220 113	349	**350PHD**	6.5
0 100 220 114	307	**306PHD**	11.0
0 100 220 115	311	**306PHD**	10.5
0 100 220 118	306	**306PHD**	11.0
0 100 220 119	306	**306PHD**	11.0
0 100 220 176	365PH	**365PHD**	11.5
0 100 220 206	434	**/**	11.0
0 100 220 210	434	**/**	11.0
0 100 221 101	427	**/**	12.0
0 100 221 102	370	**366PHD**	11.0
0 100 221 103	370	**366PHD**	11.0
0 100 221 104	370	**366PHD**	11.0
0 100 221 105	354	**348PHD**	11.0
0 100 221 106	370	**366PHD**	11.0
0 100 221 107	371	**366PHD**	11.5
0 100 221 108	351	**604PHD**	11.0
0 100 221 110	354	**348PHD**	11.0
0 100 221 112	366PH	**366PHD**	11.0
0 100 221 114	376	**366PHD**	11.0
0 100 221 118	376	**366PHD**	11.0
0 100 221 125	367	**602PHD**	11.0
0 100 221 132	361	**604PHD**	11.0
0 100 221 133	376	**366PHD**	11.0
0 100 221 134	354	**348PHD**	11.0
0 100 221 135	376	**366PHD**	11.0
0 100 221 136	427	**/**	12.0
0 100 221 141	429	**608PHD**	11.0
0 100 221 141	430	**608PHD**	11.0
0 100 221 144	381	**603PHD**	11.0

OUR REFERENCES			
O.E.S. Ref.	**Single Coil**	**Twin Coil**	**V**
BERU			
0 100 221 145	376	**366PHD**	11.0
0 100 221 146	378	**603PHD**	11.5
0 100 221 147	335	**459PHD**	12.0
0 100 221 148	462	**411PHD**	8.5
0 100 221 148	463	**411PHD**	8.5
0 100 221 149	324	**324PHD**	6.5
0 100 221 151	425	**425PHD**	11.0
0 100 221 152	353	**350PHD**	11.0
0 100 221 153	371	**366PHD**	11.5
0 100 221 154	322	**317PHD**	10.5
0 100 221 155	371	**366PHD**	11.5
0 100 221 162	365	**365PHD**	11.5
0 100 221 163	363PH	**366PHD**	11.0
0 100 221 164	371	**366PHD**	11.5
0 100 221 167	369	**366PHD**	11.0
0 100 221 168	305	**305PHD**	11.0
0 100 221 170	337PH	**337PHD**	11.0
0 100 221 186	319	**339PHD**	5.0
0 100 221 199	474	**/**	11.5
0 100 221 201	434	**/**	11.0
0 100 221 206	435	**/**	9.5
0 100 221 209	433	**/**	8.0
0 100 221 210	392	**/**	9.5
0 100 221 301	440	**/**	10.5
0 100 221 304	441	**/**	9.5
0 100 221 305	396	**/**	9.5
0 100 221 311	442	**/**	9.0
0 100 221 314	403PH	**403PHD**	11.0
0 100 222 101	419	**425PHD**	7.0
0 100 222 102	**/**	**410PHD**	16.0
0 100 222 103	419	**425PHD**	7.0
0 100 222 104	421	**425PHD**	6.0
0 100 222 105	421	**425PHD**	6.0
0 100 222 301	446	**/**	10.5
0 100 222 302	447	**/**	9.5
0 100 222 304	447	**/**	9.5
0 100 222 307	447	**/**	9.5
0 100 222 307	449	**/**	9.5
0 100 222 308	448	**/**	9.5
0 100 226 120	311	**306PHD**	10.5
0 100 226 122	331	**339PHD**	10.5
0 100 226 124	350	**350PHD**	8.5
0 100 226 125	307	**306PHD**	11.0
0 100 226 128	605PH	**366PHD**	11.5
0 100 226 129	397PH	**397PHD**	11.5
0 100 226 138	/	**680PHD**	11.0
0 100 226 163	692	**366PHD**	11.0
0 100 226 164	352	**600PHD**	11.0
0 100 226 170	305	**305PHD**	11.0
0 100 226 171	313	**313PHD**	11.0
0 100 226 172	611PH	**611PHD**	11.0
0 100 226 173	348PH	**348PHD**	11.0
0 100 226 175	431PH	**431PHD**	11.5

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BERU			
0 100 226 176	365PH	**365PHD**	11.5
0 100 226 177	/	**812PHD**	11.0
0 100 226 180	404	**411PHD**	7.0
0 100 226 182	411	**411PHD**	10.5
0 100 226 183	341	**459PHD**	6.0
0 100 226 184	609PH	**609PHD**	11.0
0 100 226 185	368PH	**366PHD**	11.0
0 100 226 186	366PH	**366PHD**	11.0
0 100 226 188	403PH	**403PHD**	11.0
0 100 226 189	374PH	**374PHD**	11.0
0 100 226 190	604PH	**604PHD**	11.0
0 100 226 190	380PH	**604PHD**	11.0
0 100 226 194	345	**459PHD**	11.0
0 100 226 198	380PH	**604PHD**	11.0
0 100 226 199	607PH	**607PHD**	11.0
0 100 226 203	/	**636PHD**	11.5
0 100 226 205	601PH	**601PHD**	10.0
0 100 226 206	613PH	**613PHD**	11.0
0 100 226 207	339	**339PHD**	11.0
0 100 226 208	316	**316PHD**	11.0
0 100 226 209	302	**316PHD**	5.0
0 100 226 210	432PH	**432PHD**	11.5
0 100 226 226	602PH	**602PHD**	11.0
0 100 226 227	611PH	**611PHD**	11.0
0 100 226 229	368PH	**366PHD**	11.0
0 100 226 231	602PH	**602PHD**	11.0
0 100 226 233	459	**459PHD**	6.2
0 100 226 234	365PH	**365PHD**	11.5
0 100 226 235	432PH	**432PHD**	11.5
0 100 226 237	600PH	**600PHD**	11.0
0 100 226 238	609PH	**609PHD**	11.0
0 100 226 241	610PH	**610PHD**	11.5
0 100 226 242	412	**411PHD**	7.0
0 100 226 243	424	**425PHD**	11.0
0 100 226 245	614PH	**614PHD**	11.0
0 100 226 246	620PH	**620PHD**	11.0
0 100 226 248	601PH	**601PHD**	10.0
0 100 226 249	384PH	**384PHD**	11.0
0 100 226 250	610PH	**610PHD**	11.5
0 100 226 251	365PH	**365PHD**	11.5
0 100 226 253	ST 68	**652PHD**	11.0
0 100 226 254	366PH	**366PHD**	11.0
0 100 226 255	/	**631PHD**	11.0
0 100 226 256	/	**626PHD**	12.0
0 100 226 258	431PH	**431PHD**	11.5
0 100 226 260	/	**625PHD**	11.5
0 100 226 284	/	**639PHD**	11.5
0 100 226 299	385PH	**385PHD**	11.0
0 100 226 300	/	**622PHD**	11.0
0 100 226 301	/	**618PHD**	10.0
0 100 226 302	/	**644PHD**	11.0
0 100 226 305	404	**411PHD**	7.0
0 100 226 306	603PH	**603PHD**	11.0
0 100 226 307	459	**459PHD**	6.2

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BERU			
0 100 226 309	339	**339PHD**	11.0
0 100 226 310	316	**316PHD**	11.0
0 100 226 311	424	**425PHD**	11.0
0 100 226 312	/	**666PHD**	11.0
0 100 226 331	404	**411PHD**	7.0
0 100 226 333	/	**820PHD**	11.0
0 100 226 336	/	**682PHD**	11.0
0 100 226 338	/	**626PHD**	12.0
0 100 226 343	405PH	**405PHD**	11.0
0 100 226 344	617PH	**617PHD**	11.0
0 100 226 345	411	**411PHD**	10.5
0 100 226 349	477	**411PHD**	11.0
0 100 226 351	/	**640PHD**	11.0
0 100 226 352	313	**313PHD**	11.0
0 100 226 353	/	**621PHD**	11.5
0 100 226 354	615PH	**615PHD**	11.0
0 100 226 361	/	**616PHD**	11.0
0 100 226 362	/	**616PHD**	11.0
0 100 226 365	/	**621PHD**	11.5
0 100 226 366	366PH	**366PHD**	11.0
0 100 226 367	601PH	**601PHD**	10.0
0 100 226 368	/	**632PHD**	11.5
0 100 226 369	601PH	**601PHD**	10.0
0 100 226 370	/	**634PHD**	11.0
0 100 226 371	623PH	**623PHD**	11.0
0 100 226 372	612PH	**612PHD**	11.0
0 100 226 373	/	**628PHD**	11.0
0 100 226 375	/	**629PHD**	11.0
0 100 226 376	/	**627PHD**	12.0
0 100 226 379	/	**625PHD**	11.5
0 100 226 381	601PH	**601PHD**	10.0
0 100 226 382	317	**317PHD**	10.5
0 100 226 383	476	**476PHD**	11.0
0 100 226 384	/	**618PHD**	10.0
0 100 226 385	/	**636PHD**	11.5
0 100 226 391	624PH	**624PHD**	11.0
0 100 226 392	/	**632PHD**	11.5
0 100 226 395	/	**625PHD**	11.5
0 100 226 396	/	**616PHD**	11.0
0 100 226 397	/	**626PHD**	12.0
0 100 226 417	/	**649PHD**	11.0
0 100 226 418	365PH	**365PHD**	11.5
0 100 226 419	/	**625PHD**	11.5
0 100 226 422	/	**648PHD**	11.0
0 100 226 432	366PH	**366PHD**	11.0
0 100 226 435	/	**680PHD**	11.5
0 100 226 436	/	**630PHD**	11.0
0 100 226 437	/	**660 PHD**	11.0
0 100 226 438	376	**366PHD**	11.0
0 100 226 439	602PH	**602PHD**	11.0
0 100 226 440	348PH	**348PHD**	11.0
0 100 226 441	376	**366PHD**	11.0
0 100 226 442	366PH	**366PHD**	11.0
0 100 226 443	378	**603PHD**	11.5

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BERU			
0 100 226 444	376	**366PHD**	11.0
0 100 226 445	370	**366PHD**	11.0
0 100 226 446	381	**603PHD**	11.0
0 100 226 447	363PH	**366PHD**	11.0
0 100 226 448	368PH	**366PHD**	11.0
0 100 226 449	365PH	**365PHD**	11.5
0 100 226 450	384PH	**384PHD**	11.0
0 100 226 451	371	**366PHD**	11.5
0 100 226 452	361	**604PHD**	11.0
0 100 226 453	368PH	**366PHD**	11.0
0 100 226 454	403PH	**403PHD**	11.0
0 100 226 455	611PH	**611PHD**	11.0
0 100 226 456	431PH	**431PHD**	11.5
0 100 226 457	432PH	**432PHD**	11.5
0 100 226 458	/	**625PHD**	11.5
0 100 226 459	405PH	**405PHD**	11.0
0 100 226 460	/	**626PHD**	12.0
0 100 226 461	/	**621PHD**	11.5
0 100 226 462	/	**632PHD**	11.5
0 100 226 463	601PH	**601PHD**	10.0
0 100 226 464	/	**616PHD**	11.0
0 100 226 465	319	**339PHD**	5.0
0 100 226 466	339	**339PHD**	11.0
0 100 226 473	/	**625PHD**	11.5
0 100 226 474	/	**647PHD**	11.0
0 100 226 475	477	**411PHD**	11.0
0 100 226 480	/	**660PHD**	11.0
0 100 226 481	317	**317PHD**	10.5
0 100 226 482	/	**647PHD**	11.0
0 100 226 489	/	**649PHD**	11.0
0 100 226 495	457	**457PHD**	11.0
0 100 226 497	/	**638PHD**	11.0
0 100 230 101	/	**312PHD**	23.0
0 100 230 102	300	**/**	23.0
0 100 230 103	300	**/**	23.0
0 100 230 105	/	**312PHD**	23.0
0 100 230 106	/	**308PHD**	24.0
0 100 230 107	/	**308PHD**	24.0
0 100 231 101	373	**/**	18.0
0 100 231 102	373	**/**	18.0
0 100 231 104	/	**320PHD**	23.0
0 100 231 107	/	**406PHD**	14.0
0 100 231 109	/	**346PHD**	24.0
0 100 231 110	/	**633PHD**	23.0
0 100 231 114	/	**406PHD**	23.0
0 100 231 115	/	**406PHD**	14.0
0 100 231 120	373	**/**	18.0
0 100 231 121	373	**/**	18.0
0 100 231 122	/	**320PHD**	23.0
0 100 231 305	395	**/**	18.0
0 100 232 301	445	**/**	22.5
0 100 266 002	/	**806PHD**	5.0
0 100 266 003	/	**835PHD**	5.0
0 100 266 005	/	**833PHD**	5.0

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BERU			
0 100 271 101	416	**416PHD**	5.0
0 100 271 102	418	**418PHD**	11.5
0 100 271 103	416	**416PHD**	5.0
0 100 271 301	438	**/**	12.0
0 100 271 601	480	**/**	11.0
0 100 271 602	391	**/**	12.0
0 100 276 002	/	**826PHD**	11.0
0 100 276 003	/	**853PHD**	11.0
0 100 276 004	/	**818PHD**	11.0
0 100 276 005	/	**826PHD**	11.0
0 100 276 007	/	**819PHD**	11.0
0 100 276 008	/	**819PHD**	11.0
0 100 276 015	/	**851PHD**	11.0
0 100 281 301	439	**/**	24.0
0 100 331 301	445	**/**	22.5
0 101 032 603	2530 TS	**/**	24.0
0 101 072 405	1505TS	**/**	8.0
0 101 072 408	1505TS	**/**	8.0
0 101 072 409	1505TS	**/**	8.0
0 101 072 603	1501TS	**/**	12.0
0 101 072 603	1501TS	**/**	12.0
0 101 223 401	1540TF	**/**	9.5
0 101 223 449	1580TF	**/**	11.0
0 101 223 454	1570TF	**/**	9.5
0 101 223 459	1570TF	**/**	9.5
0 101 223 461	1580TF	**/**	11.0
0 101 233 401	1560TF	**/**	19.0
0 101 233 413	1550TF	**/**	19.0
0 101 233 418	1530TF	**/**	19.0
0 101 233 486	1590TF	**/**	24.0
0 102 024 405	886	**/**	11.0
0 102 024 602	885	**/**	11.0
0 102 113 303	880	**/**	4.0
0 102 123 203	882	**/**	12.0
0 102 124 404	884	**/**	12.0
0 102 124 405	882	**/**	12.0
0 102 124 418	884	**/**	12.0
0 102 133 204	883	**/**	24.0
0 102 173 201	881	**/**	12.0
0 102 173 212	881	**/**	12.0
105 MN	370	**366PHD**	11.0
106 MJ	434	**/**	11.0
107 MJ	447	**/**	9,5
108 MJ	447	**/**	9,5
112 M	427	**/**	12
130 MJ	392	**/**	9,5
137 MJ	434	**/**	11.0
141 M	355	**348PHD**	11.0
141 MJ	355	**348PHD**	11.0
151 MJ	370	**366PHD**	11.0
154 GS	1501TS	**/**	12.0
154 GSF	1501TS	**/**	12.0
161 MJ	370	**366PHD**	11.0
162 MJ	355	**348PHD**	11.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BERU			
166 GS	2530 TS	/	24.0
167 G	1560TF	/	19.0
169 G	1540TF	/	9.5
171 MJ	447	/	9,5
172 G	1550TF	/	19.0
173 G	1570TF	/	9.5
184 G	886	/	11.0
184 M	886	/	11.0
185 G	885	/	11.0
214 GK	486	/	0.9
219 CG	452	/	1,7
220 G	452	/	1,7
348 GK	486	/	0.9
359 G	880	/	4.0
368 GK	486	/	0.9
380 MJ	445	/	22.5
382 GK	486	/	0.9
400 G	884	/	12.0
408 GS	882	/	12.0
601 MJ	354	**348PHD**	11.0
602 MJ	370	**366PHD**	11.0
603 MJ	371	**366PHD**	11.5
604 MJ	370	**366PHD**	11.0
605 MJ	354	**348PHD**	11.0
606 MJ	376	**366PHD**	11.0
607 MJ	371	**366PHD**	11.5
609 MJ	376	**366PHD**	11.0
613 MJ	376	**366PHD**	11.0
624 MJ	376	**366PHD**	11.0
630 G	1550TF	/	19.0
631 MJ	361	**604PHD**	11.0
633 MJ	371	**366PHD**	11.5
634 GS	1505TS	/	8.0
636 MJ	371	**366PHD**	11.5
639 GS	881	/	12.0
642 MJ	369	**366PHD**	11.0
651 MJ	371	**366PHD**	11.5
657 MJ	430	**608PHD**	11.0
661 MJ	378	**603PHD**	11.5
663 MJ	371	**366PHD**	11.5
666 MJ	381	**603PHD**	11.0
673 MJ	335	**459PHD**	12.0
678 MJ	402	**411PHD**	8.0
682 G	1570TF	/	9.5
683 G	1570TF	/	9.5
685 MJ	343	**324PHD**	8,5
687 MJ	348PH	**348PHD**	11.0
688 MJ	420	**425PHD**	11.0
689 MJ	355	**348PHD**	11.0
690 G	1560TF	/	19.0
691 MJ	371	**366PHD**	11.5
699 G	1530TF	/	19.0
701 G	1540TF	/	9.5
703 G	1550TF	/	19.0

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BERU			
705 MJ	322	**317PHD**	10,5
711 G	1570TF	/	9.5
718 MJ	365	**365PHD**	11.5
719 MJ	363PH	**366PHD**	11.0
721 G	1580TF	/	11.0
724 MJ	371	**366PHD**	11.5
727 MJ	369	**366PHD**	11.0
729 MJ	376	**366PHD**	11.0
730 MJ	337PH	**337PHD**	11.0
747 MJ	ST 68	**652PHD**	11.0
749 MJ	319	**339PHD**	5.0
783 MJ	397PH	**397PHD**	11.5
798 MJ	606PH	**374PHD**	12,5
815 MJ	354	**348PHD**	11.0
823 MJ	416	**416PHD**	5.0
835 MJ	418	**418PHD**	11.5
843 G	1580TF	/	11.0
844 MJ	600PH	**600PHD**	11.0
846 G	883	/	24.0
852 MJ	602PH	**602PHD**	11.0
853 MJ	305	**305PHD**	11.0
854 MJ	313	**313PHD**	11.0
855 MJ	611PH	**611PHD**	11.0
857 MJ	348PH	**348PHD**	11.0
858 MJ	365PH	**365PHD**	11.5
886 MJ	404	**411PHD**	7.0
887 MJ	/	**312PHD**	23.0
888 MJ	349	**350PHD**	6,5
889 MJ	307	**306PHD**	11.0
890 MJ	300	/	23.0
892 MJ	311	**306PHD**	10,5
894 MJ	419	**425PHD**	7.0
895 MJ	/	**406PHD**	14.0
896 MJ	302	**316PHD**	5.0
897 MJ	411	**411PHD**	10,5
898 MJ	341	**459PHD**	6.0
905 MJ	609PH	**609PHD**	11.0
908 MJ	368PH	**366PHD**	11.0
909 MJ	368PH	**366PHD**	11.0
912 MJ	403PH	**403PHD**	11.0
913 G	1580TF	/	11.0
917 MJ	374PH	**374PHD**	11.0
920 MJ	306	**306PHD**	11.0
921 MJ	345	**459PHD**	11.0
944 MJ	613PH	**613PHD**	11.0
946 MJ	339	**339PHD**	11.0
947 MJ	316	**316PHD**	11.0
948 MJ	432PH	**432PHD**	11.5
950 MJ	611PH	**611PHD**	11.0
966 MJ	601PH	**601PHD**	10.0
968 GV	424	**425PHD**	11.0
968 MJ	424	**425PHD**	11.0
969 MJ	/	**406PHD**	23.0
970 MJ	384PH	**384PHD**	11.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BERU			
997 MJ	/	**666PHD**	11.0
999 MJ	609PH	**609PHD**	11.0
GD 214	486	**/**	0.9
GD 220	452	**/**	1.7
GD 348	486	**/**	0.9
GD 368	486	**/**	0.9
GD 382	450	**/**	0.9
GE 102	/	**806PHD**	5.0
GE 103	/	**835PHD**	5.0
GE 104	/	**833PHD**	5.0
GF 006	1580TF	**/**	11.0
GF 154	1501TS	**/**	12.0
GF 166	2530 TS	**/**	24.0
GF 167	1560TF	**/**	19.0
GF 169	1540TF	**/**	9.5
GF 177	2570 TS	**/**	24.0
GF 630	1550TF	**/**	19.0
GF 671	1530TF	**/**	19.0
GF 683	1570TF	**/**	9.5
GF 699	1530TF	**/**	19.0
GF 700	1530TF	**/**	19.0
GF 859	1505TS	**/**	8.0
GF 974	1580TF	**/**	11.0
GF 978	1590TF	**/**	24.0
GF 982	1505TS	**/**	8.0
GF 983	1505TS	**/**	8.0
GF 984	1580TF	**/**	11.0
GH 185	885	**/**	11.0
GH 359	880	**/**	4.0
GH 401	884	**/**	12.0
GH 408	882	**/**	12.0
GH 760	886	**/**	11.0
GH 846	883	**/**	24.0
GH 847	881	**/**	12.0
GN 001	/	**820PHD**	11.0
GN 003	/	**625PHD**	11.5
GN 005	/	**682PHD**	11.0
GN 007	405PH	**405PHD**	11.0
GN 008	/	**626PHD**	12.0
GN 010	/	**621PHD**	11.5
GN 012	615PH	**615PHD**	11.0
GN 013	366PH	**366PHD**	11.0
GN 015	/	**632PHD**	11.5
GN 016	623PH	**623PHD**	11.0
GN 017	612PH	**612PHD**	11.0
GN 018	/	**628PHD**	11.0
GN 019	/	**629PHD**	11.0
GN 020	/	**627PHD**	12.0
GN 022	601PH	**601PHD**	10.0
GN 023	317	**317PHD**	10.5
GN 024	/	**616PHD**	11.0
GN 025	/	**634PHD**	11.0
GN 026	/	**640PHD**	11.0
GN 027	617PH	**617PHD**	11.0

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BERU			
GN 028	476	**476PHD**	11.0
GN 030	624PH	**624PHD**	11.0
GN 033	/	**649PHD**	11.0
GN 035	/	**648PHD**	11.0
GN 037	/	**853PHD**	11.0
GN 039	313	**313PHD**	11.0
GN 041	/	**630PHD**	11.0
GN 042	/	**660 PHD**	11.0
GN 043	499	**411PHD**	12.0
GN 044	/	**308PHD**	24.0
GN 045	/	**826PHD**	11.0
GN 046	/	**647PHD**	11.0
GN 047	/	**818PHD**	11.0
GN 050	/	**680PHD**	11.5
GN 053	/	**819PHD**	11.0
GN 059	/	**851PHD**	11.0
GN 103	457	**457PHD**	11.0
GN 104	/	**638PHD**	11.0
GN 217	614PH	**614PHD**	11.0
GN 739	610PH	**610PHD**	11.5
GN 823	416	**416PHD**	5.0
GN 835	418	**418PHD**	12.0
GN 853	305	**305PHD**	11.0
GN 854	313	**313PHD**	11.0
GN 855	611PH	**611PHD**	11.0
GN 857	348PH	**348PHD**	11.0
GN 858	365PH	**365PHD**	11.5
GN 860	431PH	**431PHD**	11.5
GN 870	/	**812PHD**	11.0
GN 905	609PH	**609PHD**	11.0
GN 908	368PH	**366PHD**	11.0
GN 909	366PH	**366PHD**	11.0
GN 912	403PH	**403PHD**	11.0
GN 917	374PH	**374PHD**	11.0
GN 918	604PH	**604PHD**	11.0
GN 925	366PH	**366PHD**	11.0
GN 926	/	**633PHD**	23
GN 927	380PH	**604PHD**	11.0
GN 928	607PH	**607PHD**	11.0
GN 939	/	**636PHD**	11.5
GN 944	613PH	**613PHD**	11.0
GN 948	432PH	**432PHD**	11.5
GN 954	366PH	**366PHD**	11.0
GN 955	459	**459PHD**	6.2
GN 959	600PH	**600PHD**	11.0
GN 961	610PH	**610PHD**	11.5
GN 963	614PH	**614PHD**	11.0
GN 964	620PH	**620PHD**	11.0
GN 966	601PH	**601PHD**	10.0
GN 970	384PH	**384PHD**	11.0
GN 984	/	**652PHD**	11.0
GN 985	/	**631PHD**	11.0
GN 989	/	**639PHD**	11.5
GN 991	385PH	**385PHD**	11.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BERU			
GN 992	/	**622PHD**	11.0
GN 993	/	**618PHD**	10.0
GN 994	/	**644PHD**	11.0
GN 997	/	**666PHD**	11.0
GN 999	609PH	**609PHD**	11.0
GV 001	421	**425PHD**	6.0
GV 105	370	**366PHD**	11.0
GV 106	433	**/**	8.0
GV 107	446	**/**	10.5
GV 108	447	**/**	9.5
GV 112	427	**/**	12.0
GV 117	445	**/**	22.5
GV 119	434	**/**	11.0
GV 124	447	**/**	10.5
GV 128	439	**/**	24.0
GV 130	392	**/**	9.5
GV 134	480	**/**	11.0
GV 137	434	**/**	11.0
GV 145	438	**/**	12.0
GV 151	370	**366PHD**	11.0
GV 153	373	**/**	18.0
GV 155	435	**/**	9.5
GV 170	440	**/**	10.5
GV 171	447	**/**	9.5
GV 179	396	**/**	9.5
GV 181	395	**/**	18.0
GV 185	448	**/**	9.5
GV 186	391	**/**	12.0
GV 197	441	**/**	9.5
GV 362	/	**616PHD**	11.0
GV 602	370	**366PHD**	11.0
GV 603	371	**366PHD**	11.5
GV 604	351	**604PHD**	11.0
GV 624	367	**602PHD**	11.0
GV 626	442	**/**	9.0
GV 631	361	**604PHD**	11.0
GV 636	376	**366PHD**	11.0
GV 642	376	**366PHD**	11.0
GV 657	429	**608PHD**	11.0
GV 657	430	**608PHD**	11.0
GV 661	381	**603PHD**	11.0
GV 661	603PH	**603PHD**	11.0
GV 662	381	**603PHD**	11.0
GV 663	376	**366PHD**	11.0
GV 666	378	**603PHD**	11.5
GV 673	335	**459PHD**	12.0
GV 678	462	**411PHD**	8.5
GV 678	463	**411PHD**	8.5
GV 685	324	**324PHD**	6.5
GV 685	343	**324PHD**	8.5
GV 688	420	**425PHD**	11.0
GV 688	426	**425PHD**	11.0
GV 689	353	**350PHD**	11.0
GV 691	371	**366PHD**	11.5

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BERU			
GV 705	322	**317PHD**	10.5
GV 719	363PH	**366PHD**	11.0
GV 724	376	**366PHD**	11.0
GV 727	369	**366PHD**	11.0
GV 728	305	**305PHD**	11.0
GV 730	337PH	**337PHD**	11.0
GV 736	373	**/**	18.0
GV 749	319	**339PHD**	5.0
GV 764	474	**/**	11.5
GV 783	397PH	**397PHD**	11.5
GV 798	605PH	**366PHD**	11.5
GV 819	894	**317PHD**	11.0
GV 823	416	**416PHD**	5.0
GV 835	453	**453PHD**	6.0
GV 844	352	**600PHD**	11.0
GV 852	692	**366PHD**	11.0
GV 852	602PH	**602PHD**	11.0
GV 880	/	**320PHD**	23.0
GV 886	404	**411PHD**	7.0
GV 887	/	**312PHD**	23.0
GV 888	349	**350PHD**	6.5
GV 889	307	**306PHD**	11.0
GV 890	300	**/**	23.0
GV 892	311	**306PHD**	10.5
GV 894	419	**425PHD**	7.0
GV 895	/	**406PHD**	14.0
GV 896	/	**410PHD**	16.0
GV 897	411	**411PHD**	10.5
GV 898	341	**459PHD**	6.0
GV 920	306	**306PHD**	11.0
GV 921	345	**459PHD**	11.0
GV 922	/	**346PHD**	24.0
GV 945	302	**316PHD**	5.0
GV 946	339	**339PHD**	11.0
GV 947	316	**316PHD**	11.0
GV 967	412	**411PHD**	7.0
GV 968	424	**425PHD**	11.0
GV 969	/	**406PHD**	23.0
G 3	366PH	**366PHD**	11.0
G 4	603PH	**603PHD**	11.0
G 5	365PH	**365PHD**	11.5
BOSCH			
0 250 001 001	486	**/**	0.9
0 250 001 005	486	**/**	0.9
0 250 001 008	450	**/**	0.9
0 250 001 010	486	**/**	0.9
0 250 001 012	450	**/**	0.9
0 250 001 015	450	**/**	0.9
0 250 001 016	450	**/**	0.9
0 250 001 017	450	**/**	0.9
0 250 001 416	450	**/**	0.9
0 250 002 009	452	**/**	1.7
0 250 102 002	886	**/**	11.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BOSCH			
0 250 102 003	886	/	11.0
0 250 200 001	447	/	10.5
0 250 200 006	439	/	24.0
0 250 200 008	447	/	9.5
0 250 200 011	OUT OF PRODUCTION		22.5
0 250 200 013	440	/	10.5
0 250 200 014	446	/	10.5
0 250 200 020	447	/	9.5
0 250 200 021	441	/	9.5
0 250 200 025	434	/	11.0
0 250 200 029	448	/	9.5
0 250 200 032	434	/	11.0
0 250 200 035	427	/	12.0
0 250 200 037	435	/	9.5
0 250 200 046	433	/	8.0
0 250 200 048	392	/	9.5
0 250 200 049	429	**608PHD**	11.0
0 250 200 051	434	/	11.0
0 250 200 052	355	**348PHD**	11.0
0 250 200 053	429	**608PHD**	11.0
0 250 200 054	370	**366PHD**	11.0
0 250 200 055	447	/	10.5
0 250 200 056	370	**366PHD**	11.0
0 250 200 057	370	**366PHD**	11.0
0 250 200 058	370	**366PHD**	11.0
0 250 200 059	370	**366PHD**	11.0
0 250 200 060	370	**366PHD**	11.0
0 250 200 061	370	**366PHD**	11.0
0 250 200 063	355	**348PHD**	11.0
0 250 200 064	373	/	18.0
0 250 200 065	370	**366PHD**	11.0
0 250 200 066	351	**604PHD**	11.0
0 250 200 068	370	**366PHD**	11.0
0 250 200 069	369	**366PHD**	11.0
0 250 200 420	446	/	10,5
0 250 200 451	434	/	11.0
0 250 200 454	370	**366PHD**	11.0
0 250 200 456	370	**366PHD**	11.0
0 250 200 464	373	/	18.0
0 250 200 465	370	**366PHD**	11.0
0 250 200 468	370	**366PHD**	11.0
0 250 201 001	371	**366PHD**	11.5
0 250 201 004	354	**348PHD**	11.0
0 250 201 005	376	**366PHD**	11.0
0 250 201 006	376	**366PHD**	11.0
0 250 201 008	376	**366PHD**	11.0
0 250 201 009	376	**366PHD**	11.0
0 250 201 010	442	/	9.0
0 250 201 011	354	**348PHD**	11.0
0 250 201 012	430	**608PHD**	11.0
0 250 201 013	367	**602PHD**	11.0
0 250 201 014	429	**608PHD**	11.0
0 250 201 015	354	**348PHD**	11.0
0 250 201 017	361	**604PHD**	11.0

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BOSCH			
0 250 201 019	376	**366PHD**	11.0
0 250 201 021	354	**348PHD**	11.0
0 250 201 022	/	**348PHD/24**	24.0
0 250 201 026	365	**365PHD**	11.5
0 250 201 029	366PH	**366PHD**	11.0
0 250 201 030	376	**366PHD**	11.0
0 250 201 031	352	**600PHD**	11.0
0 250 201 032	348PH	**348PHD**	11.0
0 250 201 033	368PH	**366PHD**	11.0
0 250 201 034	608PH	**608PHD**	11.0
0 250 201 035	431PH	**431PHD**	11.5
0 250 201 036	607PH	**607PHD**	11.0
0 250 201 037	605PH	**366PHD**	11.5
0 250 201 038	432PH	**432PHD**	11.5
0 250 201 039	366PH	**366PHD**	11.0
0 250 201 040	603PH	**603PHD**	11.0
0 250 201 041	365PH	**365PHD**	11.5
0 250 201 042	366PH	**366PHD**	11.0
0 250 201 043	366PH	**366PHD**	11.0
0 250 201 044	442	/	9.0
0 250 201 045 C	366PH	**366PHD**	11.0
0 250 201 046 C	348PH	**348PHD**	11.0
0 250 201 047 C	365PH	**365PHD**	11.5
0 250 201 048 C	432PH	**432PHD**	11.5
0 250 201 049	601PH	**601PHD**	10.0
0 250 201 050	600PH	**600PHD**	11.0
0 250 201 405	376	**366PHD**	11.0
0 250 201 415	354	**348PHD**	11.0
0 250 201 469	376	**366PHD**	11.0
0 250 201 901	K 30	/	9.0
0 250 201 927	376	**366PHD**	11.0
0 250 201 929	376	**366PHD**	11.0
0 250 201 930	348PH	**348PHD**	11.0
0 250 201 932	376	**366PHD**	11.0
0 250 201 933	/	**KE 201 PH**	11.0
0 250 201 934	361	**604PHD**	11.0
0 250 201 935	602PH	**602PHD**	11.0
0 250 201 939	366PH	**366PHD**	11.0
0 250 201 950	/	**KE 204 PH**	11.0
0 250 201 951	/	**KE 202 PH**	11.0
0 250 201 952	366PH	**366PHD**	11.0
0 250 202 001	381	**603PHD**	11.0
0 250 202 001	603PH	**603PHD**	11.0
0 250 202 002	337PH	**337PHD**	11.0
0 250 202 003	335	**459PHD**	12.0
0 250 202 004	462	**411PHD**	8.5
0 250 202 004	463	**411PHD**	8.5
0 250 202 005	324	**324PHD**	6.5
0 250 202 006	420	**425PHD**	11.0
0 250 202 006	426	**425PHD**	11.0
0 250 202 007	322	**317PHD**	10.5
0 250 202 008	319	**339PHD**	5.0
0 250 202 009	611PH	**611PHD**	11.0
0 250 202 010	353	**350PHD**	11.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BOSCH			
0 250 202 011	331	**339PHD**	10.5
0 250 202 012	/	**406PHD**	19.0
0 250 202 013	349	**350PHD**	6.5
0 250 202 014	307	**306PHD**	11.0
0 250 202 015	304	**306PHD**	10.5
0 250 201 027	363PH	**366PHD**	11.0
0 250 202 016	310	**306PHD**	9.5
0 250 202 017	311	**306PHD**	10.5
0 250 202 018	378	**603PHD**	11.5
0 250 202 019	620PH	**620PHD**	11.0
0 250 202 020	403PH	**403PHD**	11.0
0 250 202 021	385PH	**385PHD**	11.0
0 250 202 022	611PH	**611PHD**	11.0
0 250 202 023	405PH	**405PHD**	11.0
0 250 202 024	385PH	**385PHD**	11.0
0 250 202 025	609PH	**609PHD**	11.0
0 250 202 026	610PH	**610PHD**	11.5
0 250 202 027	613PH	**613PHD**	11.0
0 250 202 028	612PH	**612PHD**	11.0
0 250 202 029	/	**625PHD**	11.5
0 250 202 032	617PH	**617PHD**	11.0
0 250 202 033 C	603PH	**603PHD**	11.0
0 250 202 034	384PH	**384PHD**	11.0
0 250 202 035	614PH	**614PHD**	11.0
0 250 202 036	/	**630PHD**	11.0
0 250 202 039	/	**625PHD**	11.5
0 250 202 040	397PH	**397PHD**	11.5
0 250 202 041	/	**621PHD**	11.5
0 250 202 042	620PH	**620PHD**	11.0
0 250 202 043	/	**649PHD**	11.0
0 250 202 045	/	**625PHD**	11.5
0 250 202 046	/	**647PHD**	11.0
0 250 202 051	404	**411PHD**	7.0
0 250 202 051	412	**411PHD**	7.0
0 250 202 052	466	**411PHD**	11.0
0 250 202 053	424	**425PHD**	11.0
0 250 202 054	419	**425PHD**	7.0
0 250 202 056	347	**317PHD**	12.0
0 250 202 058	411	**411PHD**	10.5
0 250 202 059	343	**324PHD**	8.5
0 250 202 060	345	**459PHD**	11.0
0 250 202 062	350	**350PHD**	8.5
0 250 202 064	/	**308PHD**	24.0
0 250 202 065	386	**386PHD**	11.0
0 250 202 069	300	**/**	23.0
0 250 202 070	/	**410PHD**	16.0
0 250 202 071	/	**312PHD**	23.0
0 250 202 073	421	**425PHD**	6.0
0 250 202 074	467	**411PHD**	11.0
0 250 202 076	/	**406PHD**	14.0
0 250 202 077	306	**306PHD**	11.0
0 250 202 079	211	**411PHD**	11.0
0 250 202 085	339	**339PHD**	11.0
0 250 202 086	302	**316PHD**	5.0

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
BOSCH			
0 250 202 087	316	**316PHD**	11.0
0 250 202 088	894	**317PHD**	11.0
0 250 202 089	317	**317PHD**	12.0
0 250 202 090	465	**465PHD**	12.0
0 250 202 091	/	**658PHD**	23.0
0 250 202 092	479	**317PHD**	11.0
0 250 202 093	313	**313PHD**	11.0
0 250 202 094	459	**459PHD**	6.2
0 250 202 095	411	**411PHD**	10.5
0 250 202 096	425	**425PHD**	11.0
0 250 202 097	/	**406PHD**	23.0
0 250 202 102	/	**626PHD**	12.0
0 250 202 103	/	**616PHD**	11.0
0 250 202 104	/	**653PHD**	24.0
0 250 202 105	/	**387PHD**	20.5
0 250 202 106	317	**317PHD**	12.0
0 250 202 107	/	**320PHD**	23.0
0 250 202 110	306	**306PHD**	11.0
0 250 202 115	411	**411PHD**	12.0
0 250 202 119	/	**406PHD**	23.0
0 250 202 120	/	**387PHD**	24.0
0 250 202 121	305	**305PHD**	11.0
0 250 202 124	/	**641PHD**	11.0
0 250 202 125	/	**642PHD**	11.0
0 250 202 128	/	**640PHD**	11.0
0 250 202 129	/	**629PHD**	11.0
0 250 202 251	/	**413PHD**	6.0
0 250 202 254	416	**416PHD**	5.0
0 250 202 710	337PH	**337PHD**	11.0
0 250 203 001	/	**851PHD**	11.0
0 250 203 002	/	**819PHD**	11.0
0 250 312 001	305	**305PHD**	11.0
0 250 312 002	315PH	**315PHD**	11.0
0 250 312 003	457	**457PHD**	11.0
0 250 312 007	476	**476PHD**	11.0
0 257 100 006	2530 TS	**/**	24.0
0 257 100 009	1501TS	**/**	12.0
0 257 100 010	1504TS	**/**	12.0
0 257 200 003	1560TF	**/**	19.0
0 257 201 001	1550TF	**/**	19.0
0 257 201 002	1570TF	**/**	9.5
0 257 201 004	1530TF	**/**	19.0
0 257 202 001	1560TF	**/**	19.0
0 257 202 002	1540TF	**/**	9.5
0 257 204 002	1580TF	**/**	11.0
0 257 204 003	1580TF	**/**	11.0
0 257 205 004	1590TF	**/**	24.0
0 986 257 007	881	**/**	12.0
0 986 257 008	882	**/**	12.0
0 986 257 013	880	**/**	4.0
0 986 257 015	883	**/**	24.0
CHAMPION			
AG 32	427	**/**	12.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
CHAMPION			
AG 44	440	/	11.0
AG 5611	454	/	11.0
CH 4	908	/	2.0
CH 8	369	**366PHD**	11.0
CH 28	486	/	0.9
CH 32	427	/	12.0
CH 32	427	/	12.0
CH 40	480	/	11.0
CH 44	440	/	11.0
CH 45	452	/	1.7
CH 60	355	**348PHD**	11.0
CH 61	450	/	0.9
CH 62	429	**608PHD**	11.0
CH 63	351	**604PHD**	11.0
CH 63	370	**366PHD**	11.0
CH 64	392	/	9,5
CH 65	447	/	9.5
CH 66	434	/	11.0
CH 68	371	**366PHD**	11.5
CH 68	376	**366PHD**	11.0
CH 69	354	**348PHD**	11.0
CH 70	430	**608PHD**	11.0
CH 77	/	**413PHD**	6.0
CH 78	453	**453PHD**	6.0
CH 79	361	**604PHD**	11.0
CH 80	/	**413PHD**	6.0
CH 84	416	**416PHD**	5.0
CH 87	370	**366PHD**	11.0
CH 88	376	**366PHD**	11.0
CH 90	337PH	**337PHD**	11.0
CH 94	335	**459PHD**	12.0
CH 95	404	**411PHD**	7.0
CH 96	350	**350PHD**	8.5
CH 96	349	**350PHD**	6.5
CH 97	322	**317PHD**	10.5
CH 98	324	**324PHD**	6.5
CH 98	324	**324PHD**	6.5
CH 99	343	**324PHD**	8.5
CH 101	341	**459PHD**	6.0
CH 102	307	**306PHD**	11.0
CH 103	420	**425PHD**	11.0
CH 104	/	**406PHD**	14.0
CH 108	/	**653PHD**	24.0
CH 110	319	**339PHD**	5.0
CH 117	/	**312PHD**	23.0
CH 121	462	**411PHD**	8.5
CH 128	300	/	23.0
CH 129	311	**306PHD**	10.5
CH 132	419	**425PHD**	7.0
CH 133	411	**411PHD**	10.5
CH 137	376	**366PHD**	11.0
CH 137	369	**366PHD**	11.0
CH 139	1501TS	/	12.0
CH 139	1504TS	/	12.0

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
CHAMPION			
CH 141	604PH	**604PHD**	11.0
CH 144	328	**328PHD**	10.5
CH 147	378	**603PHD**	11.5
CH 152	473	/	11.0
CH 154	424	**425PHD**	11.0
CH 155	367	**602PHD**	11.0
CH 156	365	**365PHD**	11.5
CH 157	339	**339PHD**	11.0
CH 158	316	**316PHD**	11.0
CH 159	363PH	**366PHD**	11.0
CH 160	348PH	**348PHD**	11.0
CH 161	306	**306PHD**	11.0
CH 162	345	**459PHD**	11.0
CH 163	366PH	**366PHD**	11.0
CH 163	368PH	**366PHD**	11.0
CH 164	606PH	**374PHD**	12.5
CH 166	612PH	**612PHD**	11.0
CH 167	384PH	**384PHD**	11.0
CH 168	403PH	**403PHD**	11.0
CH 169	609PH	**609PHD**	11.0
CH 170	617PH	**617PHD**	11.0
CH 171	611PH	**611PHD**	11.0
CH 172	609PH	**609PHD**	11.0
CH 173	602PH	**602PHD**	11.0
CH 174	374PH	**374PHD**	11.0
CH 175	431PH	**431PHD**	11.5
CH 176	365PH	**365PHD**	11.5
CH 177	432PH	**432PHD**	11.5
CH 178	397PH	**397PHD**	11.5
CH 179	600PH	**600PHD**	11.0
CH 181	405PH	**405PHD**	11.0
CH 184	/	**628PHD**	11.0
CH 185	623PH	**623PHD**	11.0
CH 186	313	**313PHD**	11.0
CH 187	313	**313PHD**	11.0
CH 188	302	**316PHD**	5.0
CH 189	620PH	**620PHD**	11.0
CH 190	613PH	**613PHD**	11.0
CH 196	/	**618PHD**	10.0
CH200/02	/	**818PHD**	11.0
CH 201	380PH	**604PHD**	11.0
CH 202	607PH	**607PHD**	11.0
CH 203	/	**616PHD**	11.0
CH 204	610PH	**610PHD**	11.5
CH 205	601PH	**601PHD**	10.0
CH 206	385PH	**385PHD**	11.0
CH 207	/	**622PHD**	11.0
CH 208	620PH	**620PHD**	11.0
CH 209	624PH	**624PHD**	11.0
CH 215	/	**626PHD**	12.0
CH 216	615PH	**615PHD**	11.0
CH 217	614PH	**614PHD**	11.0
CH 218	/	**625PHD**	11.0
CH 219	/	**621PHD**	11.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	**Single Coil**	**Twin Coil**	**V**
CHAMPION			
CH 222	/	**630PHD**	11.0
CH 229	/	**636PHD**	11.5
CH 231	/	**649PHD**	11.0
CH 232	/	**640PHD**	11.0
CH 233	/	**629PHD**	11.0
CH 242	/	**682PHD**	11.0
CH 271	611PH	**611PHD**	11.0
CH 302	466	**411PHD**	11.0
CH 360	/	**622PHD**	11.0
CH 386	613PH	**613PHD**	11.0
DELPHI			
DS 001	366PH	**366PHD**	11.0
DS 002	348PH	**348PHD**	11.0
DS 003	366PH	**366PHD**	11.0
DS 006	366PH	**366PHD**	11.0
DS 025	300	**/**	23.0
DS 090	453	**453PHD**	6.0
DS 091	/	**413PHD**	6.0
DS 092	416	**/**	5.0
DS 093	454	**/**	11.0
DS 101	450	**/**	0.9
HDS 212	376	**366PHD**	11.0
HDS 216	366PH	**366PHD**	11.0
HDS 217	354	**348PHD**	11.0
HDS 218	376	**366PHD**	11.0
HDS 219	355	**348PHD**	11.0
HDS 220	434	**/**	11.0
HDS 221	370	**366PHD**	11.0
HDS 222	351	**604PHD**	11.0
HDS 223	355	**348PHD**	11.0
HDS 224	392	**/**	9.5
HDS 225	447	**/**	9.5
HDS 226	435	**/**	9.5
HDS 227	427	**/**	12.0
HDS 229	367	**602PHD**	11.0
HDS 230	324	**324PHD**	6.5
HDS 231	349	**350PHD**	6.5
HDS 232	335	**459PHD**	12.0
HDS 233	404	**411PHD**	7.0
HDS 233	412	**411PHD**	7.0
HDS 234	420	**425PHD**	11.0
HDS 234	426	**425PHD**	11.0
HDS 235	419	**425PHD**	7.0
HDS 236	/	**406PHD**	19.0
HDS 237	/	**406PHD**	23.0
HDS 238	/	**406PHD**	20.5
HDS 238	/	**406PHD**	20.5
HDS 239	307	**306PHD**	11.0
HDS 240	300	**/**	23.0
HDS 241	322	**317PHD**	10.5
HDS 242	/	**406PHD**	14.0
HDS 243	303	**306PHD**	11.0
HDS 244	/	**320PHD**	23.0

OUR REFERENCES			
O.E.S. Ref.	**Single Coil**	**Twin Coil**	**V**
DELPHI			
HDS 245	462	**411PHD**	8.5
HDS 245	463	**411PHD**	8.5
HDS 246	/	**312PHD**	23.0
HDS 247	319	**339PHD**	5.0
HDS 248	471	**306PHD**	10.5
HDS 248	304	**306PHD**	10.5
HDS 249	331	**339PHD**	10.5
HDS 250	358	**/**	22.5
HDS 251	433	**/**	8
HDS 252	402	**411PHD**	8.0
HDS 253	343	**324PHD**	8.5
HDS 254	350	**350PHD**	8.5
HDS 255	366PH	**366PHD**	11.0
HDS 256	309	**306PHD**	9.5
HDS 257	310	**306PHD**	9.5
HDS 258	353	**350PHD**	11.0
HDS 259	327	**344PHD**	6.5
HDS 261	/	**318 PHD**	21.0
HDS 262	424	**425PHD**	11.0
HDS 263	/	**410PHD**	23.0
HDS 264	425	**425PHD**	11.0
HDS 266	429	**608PHD**	11.0
HDS 267	430	**608PHD**	11.0
HDS 268	411	**411PHD**	10.5
HDS 269	/	**356PHD**	20.5
HDS 270	341	**459PHD**	6.0
HDS 271	603PH	**603PHD**	11.0
HDS 272	317	**317PHD**	12.0
HDS 273	378	**603PHD**	11.5
HDS 273	603PH	**603PHD**	11.0
HDS 274	363PH	**366PHD**	11.0
HDS 275	412	**411PHD**	7.0
HDS 276	345	**459PHD**	11.0
HDS 278	429	**608PHD**	11.0
HDS 280	311	**306PHD**	10.5
HDS 282	408	**/**	8.0
HDS 283	303	**306PHD**	11.0
HDS 283	306	**306PHD**	11.0
HDS 284	/	**410PHD**	16.0
HDS 291	/	**312PHD**	19.0
HDS 292	701	**/**	11.0
HDS 293	701	**/**	11.0
HDS 294	/	**346PHD**	24.0
HDS 295	366PH	**366PHD**	11.0
HDS 297	365PH	**365PHD**	11.5
HDS 302	455	**339PHD**	5.0
HDS 303	397PH	**397PHD**	11.5
HDS 305	453	**453PHD**	6.0
HDS 306	/	**413PHD**	6.0
HDS 307	416	**416PHD**	5.0
HDS 308	454	**/**	11.0
HDS 316	450	**/**	0.9
HDS 317	452	**/**	1.7
HDS 319	486	**/**	0.9

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
DELPHI			
HDS 336	474	/	11.5
HDS 337	366PH	**366PHD**	11.0
HDS 338	302	**316PHD**	5.0
HDS 339	366PH	**366PHD**	11.0
HDS 340	/	**308PHD**	24.0
HDS 341	600PH	**600PHD**	11.0
HDS 342	611PH	**611PHD**	11.0
HDS 343	348PH	**348PHD**	11.0
HDS 345	339	**339PHD**	11.0
HDS 346	316	**316PHD**	11.0
HDS 347	602PH	**602PHD**	11.0
HDS 348	366PH	**366PHD**	11.0
HDS 350	403PH	**403PHD**	11.0
HDS 352	366PH	**366PHD**	11.0
HDS 353	366PH	**366PHD**	11.0
HDS 354	432PH	**432PHD**	11.5
HDS 355	609PH	**609PHD**	11.0
HDS 356	384PH	**384PHD**	11.0
HDS 357	337PH	**337PHD**	11.0
HDS 358	313	**313PHD**	11.0
HDS 360	613PH	**613PHD**	11.0
HDS 361	405PH	**405PHD**	11.0
HDS 362	601PH	**601PHD**	10.0
HDS 363	431PH	**431PHD**	11.5
HDS 364	612PH	**612PHD**	11.0
HDS 365	620PH	**620PHD**	11.0
HDS 366	385PH	**385PHD**	11.0
HDS 367	617PH	**617PHD**	11.0
HDS 368	/	**628PHD**	11.0
HDS 369	623PH	**623PHD**	11.0
HDS 370	609PH	**609PHD**	11.0
HDS 371	366PH	**366PHD**	11.0
HDS 372	/	**616PHD**	11.0
HDS 373	610PH	**610PHD**	11.5
HDS 374	/	**626PHD**	12.0
HDS 375	615PH	**615PHD**	11.0
HDS 376	614PH	**614PHD**	11.0
HDS 377	/	**625PHD**	11.5
HDS 379	/	**618PHD**	10.0
HDS 380	624PH	**624PHD**	11.0
HDS 382	/	**630PHD**	11.0
HDS 383	/	**636PHD**	11.5
HDS 384	/	**649PHD**	11.0
HDS 385	463	**629PHD**	11.0
HDS 386	613PH	**613PHD**	11.0
HDS 394	/	**682PHD**	11.0
1854030	2530TS	/	24.0
1854112	2530TS	/	24.0
185 4040	1524TS	/	12.0
185 4050	1501TS	/	12.0
185 4060	1521TS	/	24.0
185 4080	1518TS	/	12.0
185 4090	2570 TS	/	24.0
185 4101	1506TS	/	12.0

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
DELPHI			
185 4102	1504TS	/	12.0
185 4103	2530 TS	/	24.0
185 4104	1503TS	/	12.0
185 4105	1502TS	/	24.0
185 4106	1507TS	/	12.0
185 4109	1519TS	/	12.0
185 4111	1523TS	/	12.0
185 4117	1522TS	/	12.0
185 5018	362	**604PHD**	11.0
EIKO			
GC-921	388	/	24.0
GD-901	408	/	8.0
GD-902	422	/	8.0
GD-903	412	**411PHD**	7.0
GD-904	467	**411PHD**	11.0
GF 104	347	**317PHD**	12.0
GF 105	347	**317PHD**	12.0
GF-101		**OUT OF PRODUCTION**	
GF-102	357	/	10.5
GF-103		**OUT OF PRODUCTION**	
GF-106	280	**398PHD**	10.5
GF-107	/	**323PHD**	22.5
GF-108	358	/	22.5
GF-109	358	/	22.5
GF-110	/	**333PHD**	21.0
GF-112	335	**459PHD**	12.0
GF-115	341	**459PHD**	6.0
GF-118	340	**328PHD**	10.5
GF-120	459	**459PHD**	6.2
GF-121	476	**476PHD**	11.0
GF-122	479	**317PHD**	11.0
GF-123	/	**657PHD**	11.0
GH-401	/	**323PHD**	22.5
GH-402	/	**323PHD**	19.0
GH-405	/	**387PHD**	23.0
GH-406	/	**387PHD**	14.0
GH-502	322	**317PHD**	10.5
GI-003	331	**339PHD**	10.5
GI-005	319	**339PHD**	5.0
GI-006	118	**339PHD**	9.5
GI-006	120	**339PHD**	9.5
GI-007	/	**653PHD**	20.5
GI-008	/	**387PHD**	20.5
GI-009	120	**339PHD**	9.5
GI-010	386	**386PHD**	11.0
GI-011	302	**316PHD**	5.0
GI-013	339	**339PHD**	11.0
GI-018	316	**316PHD**	11.0
GK-911	329	/	22.5
GM-501	317	**317PHD**	12.0
GM-502	322	**317PHD**	10.5
GM-503	/	**320PHD**	23.0
GM-504	347	**317PHD**	12.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
EIKO			
GM-505	/	**320PHD**	24.0
GM-506	895	**317PHD**	10.5
GM-507	894	**317PHD**	11.0
GM-508	457	**457PHD**	11.0
GM-509	893	**317PHD**	11.0
GN-302	304	**306PHD**	10.5
GN-303	310	**306PHD**	9.5
GN-304	168	**382PHD**	10.0
GN-305	/	**379PHD**	19.0
GN-306	303	**306PHD**	11.0
GN-307	/	**312PHD**	19.0
GN-308	/	**312PHD**	23.0
GN-309	353	**350PHD**	11.0
GN-310	309	**306PHD**	9.5
GN-311	/	**379PHD**	23.0
GN-314	343	**324PHD**	8.5
GN-315	324	**324PHD**	6.5
GN-316	349	**350PHD**	6.5
GN-317	300	**/**	23.0
GN-318	311	**306PHD**	10.5
GN-319	307	**306PHD**	11.0
GN-320	350	**350PHD**	8.5
GN-321	/	**379PHD**	23.0
GN-322	306	**306PHD**	11.0
GN-323	344	**344PHD**	8.5
GN-324	/	**308PHD**	24.0
GN-325	327	**344PHD**	6.5
GN-326	/	**379PHD**	24.0
GN-327	345	**459PHD**	11.0
GN-328	313	**313PHD**	11.0
GN-329	/	**346PHD**	24.0
GN-330	382	**382PHD**	9.5
GN-331	305	**305PHD**	11.0
GN-332	315PH	**315PHD**	11.0
GPFS	347	**317PHD**	12.0
GPNFS	347	**317PHD**	12.0
GT-201	437	**/**	8.0
GT-203	402	**411PHD**	8.0
GT-204	/	**406PHD**	19.0
GT-205	420	**425PHD**	11.0
GT-206	/	**318 PHD**	21.0
GT-207	/	**406PHD**	20.5
GT-207	/	**406PHD**	20.5
GT-208	462	**411PHD**	8.5
GT-208	463	**411PHD**	8.5
GT-210	/	**410PHD**	23.0
GT-212	404	**411PHD**	7.0
GT-213	/	**406PHD**	23.0
GT-214	409	**411PHD**	6.0
GT-215	426	**425PHD**	11.0
GT-216	419	**425PHD**	7.0
GT-217	/	**406PHD**	14.0
GT-218	411	**411PHD**	10.5

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
EIKO			
GT-219	/	**410PHD**	16.0
GT-220	211	**411PHD**	11.0
GT-221	424	**425PHD**	11.0
GT-222	/	**406PHD**	23.0
GT-223	466	**411PHD**	11.0
GT-224	/	**410PHD**	23.0
GT-225		**OUT OF PRODUCTION**	
GT-226	421	**425PHD**	6.0
GT-227	478	**478PHD**	11.0
HKT			
B-021	440	**/**	10.5
B-022	447	**/**	9.5
B-025	435	**/**	9.5
B-026	433	**/**	8.0
B-027	392	**/**	9,5
B-028	354	**348PHD**	11.0
B-029	446	**/**	10,5
B-030	370	**366PHD**	11.0
B-031	434	**/**	11.0
B-032	351	**604PHD**	11.0
B-033	370	**366PHD**	11.0
B-034	370	**366PHD**	11.0
B-035	446	**/**	10,5
B-036	370	**366PHD**	11.0
B-038	376	**366PHD**	11.0
B-039	370	**366PHD**	11.0
B-040	376	**366PHD**	11.0
B-041	376	**366PHD**	11.0
B-043	354	**348PHD**	11.0
B-044	371	**366PHD**	11.5
B-045	376	**366PHD**	11.0
B-049	429	**608PHD**	11.0
B-050	376	**366PHD**	11.0
B-051	367	**602PHD**	11.0
B-052	376	**366PHD**	11.0
B-053	361	**604PHD**	11.0
B-054	442	**/**	9.0
B-055	427	**/**	12.0
B-078	365PH	**365PHD**	11.5
B-081	366PH	**366PHD**	11.0
B-098	/	**622PHD**	11.0
B-099	432PH	**432PHD**	11.5
B-100	613PH	**613PHD**	11.0
B-101	/	**636PHD**	11.5
B-102	/	**629PHD**	11.0
B-103	/	**628PHD**	11.0
B-200	1504TS	**/**	12.0
CP 01	305	**305PHD**	11.0
CP 02	315PH	**315PHD**	11.0
CP 03	/	**644PHD**	11.0
CP 05	/	**657PHD**	11.0
CP 06	459	**459PHD**	6.2

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
HKT			
CP 07	476	**476PHD**	11.0
CP 20	477	**411PHD**	11.0
CP 22	478	**478PHD**	11.0
CP 50	457	**457PHD**	11.0
CP 51	/	**638PHD**	11.0
CP 60	/	**646PHD**	11.0
CP 70	330	**/**	6.5
CP 72	/	**643PHD**	11.0
CP 73	/	**645PHD**	11.0
PD 190	412	**411PHD**	7.0
PD 191	466	**411PHD**	11.0
PD 192	467	**411PHD**	11.0
PD 95	422	**/**	8.0
PD 99	408	**/**	8.0
PH 104	896	**411PHD**	8.5
PH 20	**/**	**323PHD**	22.5
PH 21	**/**	**323PHD**	19.0
PH 22	**/**	**387PHD**	23.0
PH 23	**/**	**387PHD**	14.0
PH 25	703	**386PHD**	10.5
PI 170	386	**386PHD**	11.0
PI 172	/	**666PHD**	11.0
PI 42	331	**339PHD**	10.5
PI 43	/	**653PHD**	20.5
PI 44	**/**	**387PHD**	20.5
PI 45	321	**339PHD**	9.0
PI 46	319	**339PHD**	5.0
PI 47	118	**339PHD**	9.5
PI 48	120	**339PHD**	9.5
PI 49	386	**386PHD**	11.0
PI 50	**/**	**387PHD**	23.0
PI 51	302	**316PHD**	5.0
PI 53	/	**653PHD**	20.5
PI 54	/	**653PHD**	20.5
PI 55	455	**339PHD**	5.0
PI 56	386	**386PHD**	10,5
PI 57	316	**316PHD**	11.0
PI 58	339	**339PHD**	11.0
PI 59	316	**316PHD**	11.0
PK 111	389	**/**	24.0
PK 112	390	**/**	12.0
PK 115	**/**	**/**	20.5
PK 117	469	**/**	12.0
PK 96	329	**/**	22.5
PK 98	388	**/**	24.0
PM 161	341	**459PHD**	6.0
PM 163	/	**658PHD**	23.0
PM 164	479	**317PHD**	11.0
PM 165	/	**305PHD**	11.0
PM 166	/	**459PHD**	11.0
PM 167	476	**476PHD**	11.0
PM 168	/	**641PHD**	11.0
PM 61	**/**	**/**	22.5
PM 62	889	**398PHD**	10.5

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
HKT			
PM 63	357	**/**	10.5
PM 65	358	**/**	22.5
PM 66	**/**	**333PHD**	21.0
PM 70	**/**	**323PHD**	22.5
PM 73	**/**	**356PHD**	20.5
PM 74	358	**/**	20,5
PM 75	335	**459PHD**	12.0
PM 77	360	**/**	11.0
PM 78	/	**356PHD**	23.0
PM 79	340	**328PHD**	10.5
PN 120	**/**	**312PHD**	23.0
PN 121	349	**350PHD**	6.5
PN 122	382	**382PHD**	9.5
PN 123	307	**306PHD**	11.0
PN 124	300	**/**	23.0
PN 125	**/**	**379PHD**	23.0
PN 126	324	**324PHD**	6.5
PN 127	343	**324PHD**	8.5
PN 128	311	**306PHD**	10.5
PN 129	350	**350PHD**	8.5
PN 130	**/**	**379PHD**	23.0
PN 131	**/**	**308PHD**	24.0
PN 132	306	**306PHD**	11.0
PN 133	344	**344PHD**	8.5
PN 134	327	**344PHD**	6.5
PN 135	345	**459PHD**	11.0
PN 136	**/**	**346PHD**	24.0
PN 137	**/**	**379PHD**	24.0
PN 138	313	**313PHD**	11.0
PN 81	304	**306PHD**	10.5
PN 82	**/**	**379PHD**	19.0
PN 84	168	**382PHD**	10.0
PN 85	309	**306PHD**	9.5
PN 86	310	**306PHD**	9.5
PN 87	303	**306PHD**	11.0
PN 88	**/**	**312PHD**	19.0
PN 89	353	**350PHD**	11.0
PS 201	470	**306PHD**	10.5
PS 202	471	**306PHD**	10.5
PS 203	902	**317PHD**	10.5
PS 204	280	**312PHD**	10.5
PS 205	903	**317PHD**	12.0
PS 206	905	**/**	11.0
PS 207	473	**/**	11.0
PS 208	904	**/**	11.0
PS 210	906	**306PHD**	10.0
PS 210	700	**306PHD**	10.0
PT 100	462	**411PHD**	8.5
PT 101	**/**	**406PHD**	20.5
PT 102	**/**	**318 PHD**	21.0
PT 103	420	**425PHD**	11.0
PT 104	463	**411PHD**	8.5
PT 105	**/**	**410PHD**	23.0
PT 106	425	**425PHD**	11.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	**Single Coil**	**Twin Coil**	**V**
HKT			
PT 107	404	**411PHD**	7.0
PT 108	/	**406PHD**	23.0
PT 109	/	**406PHD**	20.5
PT 140	419	**425PHD**	7.0
PT 141	/	**406PHD**	14.0
PT 142	/	**410PHD**	16.0
PT 144	426	**425PHD**	11.0
PT 145	411	**411PHD**	10.5
PT 146	409	**411PHD**	6.0
PT 147	421	**425PHD**	6.0
PT 148	/	**OUT OF PRODUCTION**	
PT 149	/	**406PHD**	23.0
PT 150	466	**411PHD**	11.0
PT 151	424	**425PHD**	11.0
PT 152	211	**411PHD**	11.0
PT 153	/	**406PHD**	23.0
PT 154	211	**411PHD**	11.0
PT 155	426	**425PHD**	11.0
PT 157	/	**642PHD**	11.0
PT 167	476	**476PHD**	11.0
PT 90	437	/	8.0
PT 93	402	**411PHD**	8.0
PT 94	/	**406PHD**	19.0
PZ 30	317	**317PHD**	12.0
PZ 31	/	**320PHD**	23.0
PZ 32	/	**320PHD**	24.0
PZ 33	322	**317PHD**	10.5
PZ 33	322	**317PHD**	11.0
PZ 34	895	**317PHD**	10.5
PZ 35	317	**317PHD**	12
PZ 35	347	**317PHD**	12.0
PZ 36	465	**465PHD**	12.0
PZ 37	892	**317PHD**	12.0
PZ 38	894	**317PHD**	11.0
PZ 39	893	**317PHD**	12.0
PZ 703	601PH	**601PHD**	10.0
PZ 704	/	**668PHD**	11.0
MARELLI			
CIM14A	443	/	12.0
CIM14B	444	/	24.0
CIM15A	447	/	9.5
CIM15A	446	/	10.5
CIM4A	438	/	12.0
CIM4B	439	/	24.0
CTZ 1 U	1506TS	/	12.0
CTZ 2 U	1503TS	/	12.0
CTZ 3 U	2530 TS	/	24.0
CTZ 4 U	1502TS	/	24.0
CTZ 5 U	1501TS	/	12.0
CTZ 6 U	1504TS	/	12.0
REP 1A	366PH	**366PHD**	11.0
TIW4A	392	/	9.5
TIW6A	434	/	11.0

OUR REFERENCES			
O.E.S. Ref.	**Single Coil**	**Twin Coil**	**V**
MARELLI			
TIX1A	355	**348PHD**	11.0
TIX2A	370	**366PHD**	11.0
TIX4A	370	**366PHD**	11.0
TIX6A	691	**608PHD**	11.0
TIX7A	429	**608PHD**	11.0
UC17A	/	**625PHD**	11.5
UC18A	/	**621PHD**	11.5
UC2A	337PH	**337PHD**	11.0
UC3A	611PH	**611PHD**	11.0
UC4A	384PH	**384PHD**	11.0
UC7A	403PH	**403PHD**	11.0
UC8A	609PH	**609PHD**	11.0
UX11A	603PH	**603PHD**	11.0
UX12A	604PH	**604PHD**	11.0
UX13A	365PH	**365PHD**	11.5
UX14A	602PH	**602PHD**	11.0
UX15A	363PH	**366PHD**	11.0
UX1A	354	**348PHD**	11.0
UX2A	376	**366PHD**	11.0
UX4A	376	**366PHD**	11.0
UX5A	367	**602PHD**	11.0
UX7A	430	**608PHD**	11.0
UX8A	348PH	**348PHD**	11.0
UX9A	366PH	**366PHD**	11.0
UX21A	624PH	**624PHD**	11.0
MOTORCRAFT			
5 031 006	366PH	**366PHD**	11.0
EZD 1	601PH	**601PHD**	10.0
EZD 2	366PH	**366PHD**	11.0
EZD 10	348PH	**348PHD**	11.0
EZD 18	335	**459PHD**	12.0
EZD 19	462	**411PHD**	8.5
EZD 20	324	**324PHD**	6.5
EZD 21	420	**425PHD**	11.0
EZD 22	322	**317PHD**	10.5
EZD 23	319	**339PHD**	5.0
EZD 30	366PH	**366PHD**	11.0
EZD 33	611PH	**611PHD**	11.0
EZD 35	601PH	**601PHD**	10.0
EZD 36	405PH	**405PHD**	11.0
EZD 37	/	**618PHD**	10.0
EZD 38	/	**636PHD**	11.5
EZD 39	601PH	**601PHD**	10.0
EZD 4	603PH	**603PHD**	11.0
EZD 40	611PH	**611PHD**	11.0
EZD 5	366PH	**366PHD**	11.0
EZD 6	603PH	**603PHD**	11.0
EZD 8	378	**603PHD**	11.5
RZD 4	601PH	**601PHD**	10.0
NGK			
CX-01	332	/	6.5
CY-01	305	**305PHD**	11.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
NGK			
CY-02	315PH	**315PHD**	11.0
CY-03	457	**457PHD**	11.0
CY-05	/	**657PHD**	11.0
CY-07	476	**476PHD**	11.0
CY-08	/	**644PHD**	11.0
CY-22	478	**478PHD**	11.0
CY-51	305	**305PHD**	11.0
CY-52	315PH	**315PHD**	11.0
CY-53	457	**457PHD**	11.0
CY-55	/	**657PHD**	11.0
CY-57	476	**476PHD**	11.0
CY-58	/	**644PHD**	11.0
CZ-01	330	**/**	6.5
CZ-21	/	**645PHD**	11.0
CZ-22	/	**638PHD**	11.0
CZ-24	/	**665PHD**	11.0
DG-237	450	**/**	0.9
Y-03X	471	**306PHD**	10.5
Y-102	889	**398PHD**	10.5
Y-103	304	**306PHD**	10.5
Y-103-1	309	**306PHD**	9.5
Y-103-2	310	**306PHD**	9.5
Y-103K	471	**306PHD**	10.5
Y-103V	470	**306PHD**	10.5
Y-104	331	**339PHD**	10.5
Y-104R	319	**339PHD**	5.0
Y-106-1	280	**398PHD**	10.5
Y-106V	280	**398PHD**	10.5
Y-107R	322	**317PHD**	10.5
Y-107T	317	**317PHD**	12.0
Y-107V	902	**317PHD**	10.5
Y-108	408	**/**	8.0
Y-109	390	**/**	12.0
Y-110	328	**328PHD**	10.5
Y-112M-1	307	**306PHD**	11.0
Y-112R	311	**306PHD**	10,5
Y-112R-1	311	**306PHD**	10.5
Y-112T	303	**306PHD**	11.0
Y-114T	340	**328PHD**	10.5
Y-115R-1	341	**459PHD**	6.0
Y-115T	459	**459PHD**	6.0
Y-115T-1	335	**459PHD**	12.0
Y-117RS	324	**324PHD**	6.5
Y-117SS	343	**324PHD**	8.5
Y-118R	419	**425PHD**	7.0
Y-118T	420	**425PHD**	11.0
Y-118T	426	**425PHD**	11.0
Y-118T1	425	**425PHD**	11.0
Y-128	402	**411PHD**	8.0
Y-128T	462	**411PHD**	8.5
Y-128T	463	**411PHD**	8.5
Y-142-T	478	**478PHD**	11.0
Y-144RS	327	**344PHD**	6.5
Y-144SS	344	**344PHD**	8.5

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
NGK			
Y-146R	404	**411PHD**	7.0
Y-146R	412	**411PHD**	7.0
Y-147T	411	**411PHD**	10.5
Y-154	/	**653PHD**	20.5
Y-154R	118	**339PHD**	9.5
Y-154R	120	**339PHD**	9.5
Y-154RS	386	**386PHD**	11.0
Y-157R	/	**320PHD**	23.0
Y-159	389	**/**	24.0
Y-162R-1	300	**/**	23.0
Y-168R	/	**410PHD**	16.0
Y-171	388	**/**	24.0
Y-172	347	**317PHD**	12.0
Y-173	/	**323PHD**	22.5
Y-174TS	329	**/**	22.5
Y-175-2	461	**/**	22.5
Y-176	/	**323PHD**	19.0
Y-177-1	/	**312PHD**	19.0
Y-178	/	**406PHD**	19.0
Y-178T	/	**406PHD**	20.5
Y-178T	/	**406PHD**	20.5
Y-180	/	**333PHD**	21.0
Y-181T	/	**312PHD**	23.0
Y-182T-1	/	**342PHD**	22.0
Y-197R	/	**406PHD**	14.0
Y-197T	/	**406PHD**	23.0
Y-201	357	**/**	10.5
Y-202	168	**382PHD**	10.0
Y-202-2	382	**382PHD**	9.5
Y-203	433	**/**	8.0
Y-204RS	349	**350PHD**	6.5
Y-204SS	350	**350PHD**	8.5
Y-204TS	353	**350PHD**	11.0
Y-204TS-1	353	**350PHD**	11.0
Y-207T	355	**348PHD**	11.0
Y-208T	366PH	**366PHD**	11.0
Y-251	358	**/**	22.5
Y-252	/	**379PHD**	19.0
Y-271-2	/	**387PHD**	20.5
Y-272R-1	/	**379PHD**	23.0
Y-272T	/	**379PHD**	23.0
Y-274	/	**356PHD**	20.5
Y-302	427	**/**	12.0
Y-306R	373	**/**	18.0
Y-402-2	437	**/**	8.0
Y-403	434	**/**	11.0
Y-403-1	433	**/**	8.0
Y-403T	434	**/**	11.0
Y-404	435	**/**	9.5
Y-501U	/	**626PHD**	12.0
Y-504R	617PH	**617PHD**	11.0
Y-506R	614PH	**614PHD**	11.0
Y-507R	/	**616PHD**	11.0
Y-508J	/	**852PHD**	11.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
NGK			
Y-509J	484	**305PHD**	11.0
Y-515J	/	**628PHD**	11.0
Y-516J	/	**629PHD**	11.0
Y-519J	/	**643PHD**	11.0
Y-524J	601PH	**601PHD**	10.0
Y-701J	893	**317PHD**	11.0
Y-701R	892	**317PHD**	12.0
Y-701R	903	**317PHD**	12.0
Y-701U	/	**317PHD**	11.0
Y-702R	472	**306PHD**	11.0
Y-702U	906	**306PHD**	10.0
Y-702U	700	**306PHD**	10.0
Y-703R	466	**411PHD**	11.0
Y-705RS	306	**306PHD**	11.0
Y-707RS	345	**459PHD**	11.0
Y-709R	473	**/**	11.0
Y-710R	339	**339PHD**	11.0
Y-711R	302	**316PHD**	5.0
Y-711RS	316	**316PHD**	11.0
Y-712RS	313	**313PHD**	11.0
Y-715R	424	**425PHD**	11.0
Y-716RS	904	**/**	11.0
Y-719RS	316	**316PHD**	11.0
Y-720U	280	**398PHD**	10.0
Y-721-RS	465	**465PHD**	11.0
Y-729U	397PH	**397PHD**	11.5
Y-730U	609PH	**609PHD**	11.0
Y-731U	403PH	**403PHD**	11.0
Y-732U	611PH	**611PHD**	11.0
Y-732U	611PH	**611PHD**	11.0
Y-733-J	476	**476PHD**	11.0
Y-738U	620PH	**620PHD**	11.0
Y-739R	609PH	**609PHD**	11.0
Y-740U	609PH	**609PHD**	11.0
Y-745U	/	**625PHD**	11.5
Y-747U	612PH	**612PHD**	11.0
Y-749J	/	**648PHD**	11.0
Y-755RS	/	**308PHD**	24.0
Y-757RS	/	**346PHD**	24.0
Y-810	447	**/**	9.5
Y-810	446	**/**	10.5
Y-811	440	**/**	11.0
Y-901R	354	**348PHD**	11.0
Y-902R	371	**366PHD**	11.5
Y-902R	376	**366PHD**	11.0
Y-904M	386	**386PHD**	11.0
Y-907R	361	**604PHD**	11.0
Y-908R	376	**366PHD**	11.0
Y-909R	430	**608PHD**	11.0
Y-910R	378	**603PHD**	11.5
Y-911R	381	**603PHD**	11.0
Y-913M	602PH	**602PHD**	11.0
Y-914U	374PH	**374PHD**	11.0
Y-916R	376	**366PHD**	11.0

OUR REFERENCES			
O.E.S. Ref.	Single Coil	Twin Coil	V
NGK			
Y-916R	365PH	**365PHD**	11.5
Y-917U	363PH	**366PHD**	11.0
Y-918R	348PH	**348PHD**	11.0
Y-920R	376	**366PHD**	11.0
Y-922R	368PH	**366PHD**	11.0
Y-923U	366PH	**366PHD**	11.0
Y-924U	366PH	**366PHD**	11.0
Y-925R	432PH	**432PHD**	11.5
Y-927R	385PH	**385PHD**	11.0
Y-928U	384PH	**384PHD**	11.0
Y-929U	610PH	**610PHD**	11.5
Y-932R	600PH	**600PHD**	11.0
Y-938R	366PH	**366PHD**	11.0
Y-945M1	/	**387PHD**	23.0
Y-955RS	/	**379PHD**	24.0
YE-01	905	**/**	11.0
YE-04	/	**818PHD**	11.0
KN-32	/	**852PHD**	11.0
8 ZNA	457	**457PHD**	11.0
NIPPON DENSO			
067100-1042	437	**/**	8.0
067100-1070	/	**323PHD**	24.0
067100-1071	/	**323PHD**	19.0
067100-1090	408	**/**	8.0
067100-1100	422	**/**	8.0
067100-1120	/	**406PHD**	19.0
067100-1130	402	**411PHD**	8.0
067100-1161	/	**406PHD**	20.5
067100-1171	462	**411PHD**	8.5
067100-1175	462	**411PHD**	8,5
067100-1190	/	**318 PHD**	21.0
067100-1210	425	**425PHD**	11.0
067100-1220	/	**406PHD**	23.0
067100-1250	/	**318 PHD**	21.0
067100-1270	420	**425PHD**	11.0
067100-1280	/	**410PHD**	23.0
067100-1330	411	**411PHD**	10,5
067100-1340	/	**406PHD**	23.0
067100-1350	463	**411PHD**	8.5
067100-1360	/	**406PHD**	20.5
067100-1370	419	**425PHD**	7.0
067100-1380	/	**410PHD**	16.0
067100-1430	404	**411PHD**	7.0
067100-1450	409	**411PHD**	6.0
067100-1460	/	**406PHD**	14.0
067100-1500	421	**425PHD**	6.0
067100-1530	412	**411PHD**	7.0
067100-1540		**OUT OF PRODUCTION**	
067100-1580	/	**387PHD**	23.0
067100-1591	703	**386PHD**	10.5
067100-1630	425	**425PHD**	11.0
067100-1670	467	**411PHD**	11.0
067100-1690	466	**411PHD**	11.0

■ = not yet in production

Conversion List O.E.S.

OUR REFERENCES			
O.E.S. Ref.	**Single Coil**	**Twin Coil**	**V**
NIPPON DENSO			
067100-1700	/	**406PHD**	23.0
067100-1700	/	**406PHD**	23.0
067100-1710	425	**425PHD**	11.0
067100-1840	426	**425PHD**	11.0
067100-1850	/	**646PHD**	11.0
067100-1860	411	**411PHD**	10,5
067100-1900	/	**668PHD**	11.0
067100-1910	425	**425PHD**	11.0

■ = not yet in production

Conversion List O.E.M.

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
ALFA ROMEO			
11661 05 358 00	430	**608PHD**	11.0
11676 05 358 01	429	**608PHD**	11.0
11676 05 358 01	430	**608PHD**	11.0
46072001	366PH	**366PHD**	11.0
46451951	612PH	**612PHD**	11.0
46754154	/	**630PHD**	11.0
46792355	/	**851PHD**	11.0
4729595	366PH	**366PHD**	11.0
4849406	366PH	**366PHD**	11.0
773592	366PH	**366PHD**	11.0
60507123	430	**608PHD**	11.0
60596245	366PH	**366PHD**	11.0
60617002	405PH	**405PHD**	11.0
60816139	612PH	**612PHD**	11.0
9633214380	366PH	**366PHD**	11.0
BMW			
12 12 1 286 059	366PH	**366PHD**	11.0
12 12 1 288 161	366PH	**366PHD**	11.0
12 23 1 288 245	366PH	**366PHD**	11.0
12 23 2 240 255	376	**366PHD**	11.0
12 23 2 241 387	366PH	**366PHD**	11.0
12 23 2 241 388	366PH	**366PHD**	11.0
12 23 2 241 389	366PH	**366PHD**	11.0
12 23 2 248 059	/	**616PHD**	11.0
12 23 2 248 422	/	**649PHD**	11.0
12 23 7 786 869	/	**806PHD**	5.0
12 23 7 788 957	/	**835PHD**	5.0
12 23 7 791 101	/	**660PHD**	11.0
12 23 9 061 353	366PH	**366PHD**	11.0
12 23 9 061 354	366PH	**366PHD**	11.0
CATERPILLAR			
1P-7324	388	**/**	24.0
3S-9624	388	**/**	24.0
3T-8705	469	**/**	12.0
3T-8706	389	**/**	24.0
3T-9561	390	**/**	12.0
3T-9562	388	**/**	24.0
4N-360	389	**/**	24.0
4S-7824	388	**/**	24.0
9H-4577	388	**/**	24.0
9N-0194	469	**/**	12.0
IP-7912	390	**/**	12.0
CITROEN			
5 414 326	392	**/**	9.5
5 415 813	447	**/**	9.5
5 460 556	392	**/**	9.5
5 477 234	392	**/**	9.5
5 491 387	392	**/**	9.5
5 500 842	392	**/**	9.5
5 962 008	366PH	**366PHD**	11.0
5 962 58	366PH	**366PHD**	11.0
5500 842	392	**/**	9,5
5960.19	/	**818PHD**	11.0
5960 32	363PH	**366PHD**	11.0
5960 33	384PH	**384PHD**	11.0
5960 34	384PH	**384PHD**	11.0
5960 35	432PH	**432PHD**	11.5
5960 36	316	**316PHD**	11.0
5960 38	/	**616PHD**	11.0

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
CITROEN			
5960 39	337PH	**337PHD**	11.0
5960 40	499	**411PHD**	10.5
5960 41	612PH	**612PHD**	11.0
5961 05	447	**/**	9.5
5961 18	435	**/**	9.5
5961 22	447	**/**	9.5
5961 39	366PH	**366PHD**	11.0
5961 40	366PH	**366PHD**	11.0
5961 53	366PH	**366PHD**	11.0
5961 54	366PH	**366PHD**	11.0
5961 57	366PH	**366PHD**	11.0
5961 58	366PH	**366PHD**	11.0
5961 95	373	**/**	18.0
5962 74	366PH	**366PHD**	11.0
5981 10	366PH	**366PHD**	11.0
5981 11	366PH	**366PHD**	11.0
5981 13	366PH	**366PHD**	11.0
5981 15	366PH	**366PHD**	11.0
5962 1P	620PH	**620PHD**	11.0
5962 1Q	620PH	**620PHD**	11.0
5962 1R	366PH	**366PHD**	11.0
5962 1S	604PH	**604PHD**	11.0
5962 1T	366PH	**366PHD**	11.0
5962 1V	366PH	**366PHD**	11.0
5962 1W	603PH	**603PHD**	11.5
5962 1X	600PH	**600PHD**	11.0
5962 1Y	602PH	**602PHD**	11.0
5962 1Z	348PH	**348PHD**	11.0
5962 2Z	623PH	**623PHD**	11.0
5962 3C	617PH	**617PHD**	11.0
5962 3E	617PH	**617PHD**	11.0
5962 3H	366PH	**366PHD**	11.0
5962 3J	366PH	**366PHD**	11.0
5962 4J	/	**628PHD**	11.0
5962 4K	385PH	**385PHD**	11.0
5962 4L	609PH	**609PHD**	11.0
5962 74	366PH	**366PHD**	11.0
5962 74	366PH	**366PHD**	11.0
5962 7F	617PH	**617PHD**	11.0
5962 7G	617PH	**617PHD**	11.0
5962 7Z	600PH	**600PHD**	11.0
5962 C7	447	**/**	11.0
5962 J2	366PH	**366PHD**	11.0
5962 J3	603PH	**603PHD**	11.0
5962 J3	366PH	**366PHD**	11.0
5962 J4	366PH	**366PHD**	11.0
5962 J5	366PH	**366PHD**	11.0
5962 J6	366PH	**366PHD**	11.0
5962 J7	348PH	**348PHD**	11.0
5962 K5	366PH	**366PHD**	11.0
5962 R8	366PH	**366PHD**	11.0
5962 S8	366PH	**366PHD**	11.0
5962 T1	602PH	**602PHD**	11.0
5962 T2	600PH	**600PHD**	11.0
5962 T3	319	**339**	5.0
5962 T3	366PH	**366PHD**	11.0
5962 T7	603PH	**603PHD**	11.0
5962 T7	366PH	**366PHD**	11.0
5962 W2	403PH	**403PHD**	11.0
5962 W3	403PH	**403PHD**	11.0
5962 W8	366PH	**366PHD**	9.5
5962 X1	366PH	**366PHD**	11.0

■ **=not yet in production**

Conversion List O.E.M.

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
CITROEN			
7549 232 5	392	**/**	9.5
7563 225 100	435	**/**	9.5
7932 564 528	366PH	**366PHD**	11.0
7932 565 492	435	**/**	11.0
7932 567 619	447	**/**	11.0
7932 567 717	366PH	**366PHD**	11.0
7932 567 717	366PH	**366PHD**	11.0
7932 567 718	366PH	**366PHD**	11.0
90 041 002 80	603PH	**603PHD**	11.0
91 507 718	366PH	**366PHD**	11.0
91 521 849	366PH	**366PHD**	11.0
91 536 646	366PH	**366PHD**	11.0
91 538 910 99	603PH	**603PHD**	11.0
9150 771 880	366PH	**366PHD**	18.0
9150 861 080	366PH	**366PHD**	11.0
9153 664 680	366PH	**366PHD**	11.0
93 010 500	373	**/**	11.0
95 493 206	366PH	**366PHD**	11.0
95 534 788	366PH	**366PHD**	11.0
96 009 783	603PH	**603PHD**	11.0
96 009 783	366PH	**366PHD**	11.0
96 070 388 80	603PH	**603PHD**	11.0
96 076 258	603PH	**603PHD**	11.0
96 076 258	366PH	**366PHD**	11.0
96 104 689	366PH	**366PHD**	11.0
96 141 678	366PH	**366PHD**	9.5
96 165 724	366PH	**366PHD**	11.0
96 165 734	403PH	**403PHD**	11.0
96 236 383	617PH	**617PHD**	11.0
96 316 589 80	403PH	**403PHD**	11.0
96 332 143	366PH	**366PHD**	11.0
96 389 858	617PH	**617PHD**	11.0
HG 2621	447	**/**	0.9
MKD 000 66	366PH	**366PHD**	11.0
MKD 000 68	381	**603PHD**	11.0
MKP 000 64	367	**602PHD**	11.0
MKP 000 65	366PH	**366PHD**	11.0
MKP 000 67	366PH	**366PHD**	11.0
MKP 000 68	361	**604PHD**	11.0
MKP 000 69	366PH	**366PHD**	11.0
MKP 000 70	450	**/**	0,9
MKP 000 71	348PH	**348PHD**	11.0
CUMMINGS			
3 928 189	1580TF	**/**	11.0
3 925 441	1560TF	**/**	19.0
3 928 188	1560TF	**/**	19.0
DAEWOO			
90210824	366PH	**366PHD**	11.0
DAF			
105977	1550TF	**/**	19.0
1343069	884		12.0
1353958	366PH	**366PHD**	11.0
1378163	884	**/**	12.0
DAIHATSU			
067100-1100	422	**/**	8.0
19850-54030	420	**425PHD**	11.0
19850-54050	419	**425PHD**	7.0
19850-54070	421	**425PHD**	6.0

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
DAIHATSU			
19850-54071	404	**411PHD**	7.0
19850-54090	424	**425PHD**	11.0
19850-56010	/	**406PHD**	19.0
19850-56012	/	**406PHD**	20.5
19850-56022	462	**411PHD**	8,5
19850-58030	402	**411PHD**	8.0
19850-58040	/	**406PHD**	24.0
19850-64010	404	**411PHD**	7.0
19850-64020	412	**411PHD**	7.0
19850-68010	408	**/**	8.0
19850-68030	462	**411PHD**	8,5
19850-68040	**/**	**406PHD**	20.5
19850-68060	**/**	**406PHD**	14.0
19850-87303	408	**/**	8.0
19850-87309	409	**411PHD**	6.0
19850-87701	412	**411PHD**	7.0
19850-87702	466	**411PHD**	11.0
19850-87703	467	**411PHD**	11.0
DEUTZ-FAHR			
10721000725	606PH	**366PHD**	12.5
0 118 0898	/	**820PHD**	11.0
EBERSPACHER			
100 25 1384 01 00 0	882	**/**	12.0
FIAT			
980611	438	**/**	12.0
4122453	444	**/**	24.0
4137983	443	**/**	12.0
4221168	2530TS	**/**	24.0
4232051	1502TS	**/**	24.0
4232052	2530TS	**/**	24.0
4393814	370	**366PHD**	11.0
4714294	370	**366PHD**	11.0
4724601	1503TS	**/**	12.0
4724603	2530TS	**/**	24.0
4724604	1502TS	**/**	24.0
4729585	370	**366PHD**	11.0
4738576	370	**366PHD**	11.0
4752281	691	**608PHD**	11.0
4754011	370	**366PHD**	11.0
4774412	370	**366PHD**	11.0
4774413	376	**366PHD**	11.0
4781356	376	**366PHD**	11.0
4783047	376	**366PHD**	11.0
4792112	366PH	**366PHD**	11.0
4832279	1580TF	**/**	11.0
4833643	369	**366PHD**	11.0
4849406	369	**366PHD**	11.0
5141702	1503TS	**/**	12.0
5155859	1522TS	**/**	12.0
5161845	1522TS	**/**	12.0
5493206	370	**366PHD**	11.0
5500842	392	**/**	9.5
5946920	366PH	**366PHD**	11.0
5950464	370	**366PHD**	11.0
5951861	370	**366PHD**	11.0
5951879	370	**366PHD**	11.0
5951880	429	**608PHD**	11.0
5951881	376	**366PHD**	11.0
5951882	376	**366PHD**	11.0

■ **=not yet in production**

Conversion List O.E.M.

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
FIAT			
5973752	376	**366PHD**	11.0
5973753	376	**366PHD**	11.0
5990986	366PH	**366PHD**	11.0
7632587	337PH	**337PHD**	11.0
7735920	368PH	**366PHD**	11.0
9753331	439	**/**	24.0
57029585	370	**366PHD**	11.0
88900066	440	**/**	10.5
98459883	380PH	**604PHD**	11.0
98462490	374PH	**374PHD**	11.0
98498630	380PH	**604PHD**	11.0
F2 VB	370	**366PHD**	11.0
FU 2A	376	**366PHD**	11.0
FU 4A	376	**366PHD**	11.0
07029585	370	**366PHD**	11.0
4474413	376	**366PHD**	11.0
46072001 F	366PH	**366PHD**	11.0
46447610	384PH	**384PHD**	11.0
46451951	612PH	**612PHD**	11.0
46751764	624PH	**624PHD**	11.0
46754154	/	**630PHD**	11.0
46779614	/	**819PHD**	11.0
46792355	/	**851PHD**	11.0
46796050	/	**819PHD**	11.0
4775705	1580TF	**/**	11.0
4776085	1580TF	**/**	11.0
500303569	615PH	**615PHD**	11.0
500314583	1580TF	**/**	11.0
500316493	615PH	**615PHD**	11.0
500351992	/	**853PHD**	11.0
60507123	429	**608PHD**	11.0
60596245	368PH	**366PHD**	11.0
60657138	/	**627PHD**	12.0
60812292	368PH	**366PHD**	11.0
60814613	612PH	**612PHD**	11.0
60816139	/	**630PHD**	11.0
61617002	405PH	**405PHD**	11.0
7029585	370	**366PHD**	11.0
717190 15	366PH	**366PHD**	11.0
71719015	376	**366PHD**	11.0
717340 87	612PH	**612PHD**	11.0
717354 58	/	**630PHD**	11.0
717354 59	384PH	**384PHD**	11.0
717354 60	604PH	**604PHD**	11.0
717354 61	366PH	**366PHD**	11.0
717354 62	615PH	**615PHD**	11.0
717354 63	337PH	**337PHD**	11.0
717354 64	624PH	**624PHD**	11.0
717354 65	405PH	**405PHD**	11.0
76226740	376	**366PHD**	11.0
77359200	366PH	**366PHD**	11.0
7777837	380PH	**604PHD**	11.0
8122180	1560TF	**/**	19.0
8122193	1540TF	**/**	9,5
96165724	366PH	**366PHD**	11.0
9616572480	366PH	**366PHD**	11.0
9623638380	617PH	**617PHD**	11.0
9631658980	623PH	**623PHD**	11.0
9633214380	366PH	**366PHD**	11.0
9638985980	617PH	**617PHD**	11.0
98462492	366PH	**366PHD**	11.0
F4 VB	370	**366PHD**	11.0

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
FORD			
4025139	/	**317PHD**	11.0
1 001 049	601PH	**601PHD**	10.0
1 008 792	601PH	**601PHD**	10.0
1 037 204	611PH	**611PHD**	11.0
1 045 261	601PH	**601PHD**	10.0
1 056 857	601PH	**601PHD**	10.0
1 079 401	/	**618PHD**	10.0
1 096 527	/	**635PHD**	11.5
1 148 105	/	**818PHD**	11.0
1 587 444	370	**366PHD**	11.0
1 587 757	886	**/**	11.0
1 590 417	366PH	**366PHD**	11.0
1 669 977	611PH	**611PHD**	11.0
1 690 048	405PH	**405PHD**	11.0
1 820 697 C1	894	**317PHD**	11.0
1 952 464	313	**313PHD**	11.0
103 7204	611PH	**611PHD**	11.0
166 9977	611PH	**611PHD**	11.0
2S6Q6M090AA	/	**818PHD**	11.0
5 023 129	335	**459PHD**	12.0
5 023 133	322	**317PHD**	10.5
5 023 372	366PH	**366PHD**	11.0
5 031 006	366PH	**366PHD**	11.0
6 048 827	440	**/**	10,5
6 063 505	370	**366PHD**	11.0
6 075 812	366PH	**366PHD**	11.0
6 132 244	361	**604PHD**	11.0
6 132 246	381	**603PHD**	11.0
6 154 593	366PH	**366PHD**	11.0
6 163 811	366PH	**366PHD**	11.0
6 748 697	1505TS	**/**	8.0
7 072 673	366PH	**366PHD**	11.0
7 088 988	603PH	**603PHD**	11.0
1M21 18B515 AA	/	**647PHD**	11.0
71 F 61055 AC	886	**/**	11.0
715 F 11390 CA	886	**/**	11.0
715 F 6L055 AC	886	**/**	11.0
715 F 6L055 AD	886	**/**	11.0
715 F 62055 AA	886	**/**	11.0
785F6M090BA	370	**366PHD**	11.0
785F6M090CB	370	**366PHD**	11.0
786B6M090CA	370	**366PHD**	11.0
78GB6M090BA	440	**/**	10.5
78GB6M090CA	370	**366PHD**	11.0
795F6M090AA	351	**604PHD**	11.0
795F6M090BA	361	**604PHD**	11.0
795F6M090CA	351	**604PHD**	11.0
83BB6M090A1A	376	**366PHD**	11.0
83BB6M090A2A	376	**366PHD**	11.0
83BB6M090B1A	381	**603PHD**	11.0
83BB6M090B2A	381	**603PHD**	11.0
844 FF 9N424 AA	1505TS	**/**	8.0
84BB6M090AA	376	**366PHD**	11.0
84FF 6M091 BA	381	**603PHD**	11.0
84FF 6M091 BA	361	**604PHD**	11.0
84FF 6M091 BA	366PH	**366PHD**	11.0
84FF6M090B1A	361	**604PHD**	11.0
84FF6M090B2A	361	**604PHD**	11.0
84FF6M091BA	361	**604PHD**	11.0
88BB6M090AA	376	**366PHD**	11.0
89FF6M090AA	378	**603PHD**	11.5
89FF6M091AA	366PH	**366PHD**	11.0

■ **=not yet in production**

Conversion List O.E.M.

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
FORD			
890X6M090UA	366PH	**366PHD**	11.0
910X6M090AA	602PH	**602PHD**	11.0
910X6M090BA	370	**366PHD**	11.0
92 VB 9N424 BA	1505TS	**/**	8.0
93BB6M090A2A	376	**366PHD**	11.0
93FF6M090AA	603PH	**603PHD**	11.0
94DD6M090AA	366PH	**366PHD**	11.0
95 VB 9N424 AA	1505TS	**/**	8.0
95 VB 9N424 AB	1505TS	**/**	8.0
95DD6M090AA	405PH	**405PHD**	11.0
95VW6M090AA	611PH	**611PHD**	11.0
95VW6M090AB	611PH	**611PHD**	11.0
96FF 6M090 BA	601PH	**601PHD**	10.0
96FF6M090AA	601PH	**601PHD**	10.0
96FF6M090AB	601PH	**601PHD**	10.0
96FF6M090CA	601PH	**601PHD**	10.0
99 FF 6M090 AA	601PH	**601PHD**	10.0
99 FF 6M090 BA	601PH	**601PHD**	10.0
99 FF 6M090 BB	601PH	**601PHD**	10.0
99FF6M090AA	601PH	**601PHD**	10.0
EZD 18	335	**459PHD**	12.0
EZD 22	332	**317PHD**	11.0
EZD 30	366PH	**366PHD**	11.0
EZD 35	601PH	**601PHD**	10.0
EZD 36	405PH	**405PHD**	11.0
EZD 36	405PH	**405PHD**	11.0
EZD 37	/	**618PHD**	10.0
EZD 38	/	**635PHD**	11.5
EZD 8	378	**603PHD**	11.5
E 2 TZ 12A342 A	416	**416PHD**	5.0
E 4 TZ 12A342 A	416	**416PHD**	5.0
E 7 TZ 12A342 A	416	**416PHD**	5.0
F 2 TZ 12A342 A	416	**416PHD**	5.0
RZD 4	601PH	**601PHD**	10.0
V 94 DX 6M090 AA	366PH	**366PHD**	11.0
V94DD 6M090A	366PH	**366PHD**	11.0
V94DX 6M090A	366PH	**366PHD**	11.0
V95DD 6M090A	405PH	**405PHD**	11.0
XM34-12A342BA	/	**317PHD**	11.0
XS4U 6M090 AB	/	**618PHD**	10.0
XS7U 6M090 BA	/	**635PHD**	11.5
ZD 8	416	**416PHD**	5.0
ZD 9	416	**416PHD**	5.0
HINO			
19 85 A 56 022	415	**411PHD**	8.0
HYUNDAI			
36710-27000	/	**648PHD**	11.0
36710-27010	/	**648PHD**	11.0
36710-42000	335	**459PHD**	12.0
36710-42010	459	**459PHD**	6.2
36710-42020	459	**459PHD**	6.2
I.H.C (international Harv. CO.)			
3054 716 R 91	441	**/**	9.5
710 348 R 1	450	**/**	0.9
ISHIKAVAJIMA SHIBAUR			
18635-6080	322	**317PHD**	10,5

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
ISKRA			
11 720 204	880	**/**	4.0
11 720 205	881	**/**	12.0
11 720 207	882	**/**	12.0
11 720 208	883	**/**	24.0
11 720 209	884	**/**	12.0
11 720 210	885	**/**	11.0
11 720 211	886	**/**	11.0
11 720 212	887	**/**	12.0
11 720 430	1505TS	**/**	8.0
11 720 533	1590TF	**/**	24.0
ISUZU			
12 14 321	386	**386PHD**	11.0
1-82513043-0	/	**387PHD**	20.5
1-82513044-0	/	**387PHD**	20.5
5-81410040-0	321	**339PHD**	9.0
5-81410044-0	/	**653PHD**	20.5
5-81410045-0	/	**653PHD**	20.5
5-81410055-2	118	**339PHD**	9.5
5-81410056-3	120	**339PHD**	9.5
5-81410057-2	118	**339PHD**	9.5
5-81410057-3	/	**626PHD**	12.0
5-81410058-3	120	**339PHD**	9.5
8-94133759-1	386	**386PHD**	11.0
8-94133759-2	386	**386PHD**	11.0
8-94133759-3	386	**386PHD**	11.0
8-94133759-4	386	**386PHD**	11.0
8-94133759-5	386	**386PHD**	11.0
8-94133759-6	386	**386PHD**	11.0
8-94133759-7	386	**386PHD**	11.0
8-94140115-3	386	**386PHD**	11.0
8-94144412-0	339	**339PHD**	11.0
8-94144412-1	339	**339PHD**	11.0
8-94175158-0	386	**386PHD**	11.0
8-94175158-1	386	**386PHD**	11.0
8-94221719-3	319	**339PHD**	5.0
8-94241449-0	319	**339PHD**	5.0
8-94241449-1	319	**339PHD**	5.0
8-94241499-0	319	**339PHD**	5.0
8-94249692-1	319	**339PHD**	5.0
8-94255588-0	319	**339PHD**	5.0
8-94319700-1	339	**339PHD**	11.0
8-94319700-2	339	**339PHD**	11.0
8-94319700-2	339	**339PHD**	11.0
8-94387612-1	316	**316PHD**	11.0
8-94402303-1	302	**316PHD**	5.0
8-94439218-0	455	**339PHD**	5.0
8-94481972-0	316	**316PHD**	11.0
8-97033761-0	/	**387PHD**	23.0
8-97043744-0	316	**316PHD**	11.0
8-97044037-0	316	**316PHD**	11.0
8-97073641-0	386	**386PHD**	11.0
8-97080554-0	457	**457PHD**	11.0
8-97210818-2	/	**638PHD**	11.0
9413-3759	386	**386PHD**	11.0
9414-0115	386	**386PHD**	11.0
9417-5158	386	**386PHD**	11.0
9-82511-957-0	331	**339PHD**	10.5
9-82511-964-0	331	**339PHD**	10.5
9-82511-965-0	/	**653PHD**	24.0

■ **=not yet in production**

Conversion List O.E.M.

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
ISUZU			
9-82511-978-0	331	**339PHD**	10.5
9-82511-978-1	331	**339PHD**	10.5
9-82511-978-2	331	**339PHD**	10.5
9-82511-978-3	331	**339PHD**	10.5
9-82511-979-0	/	**653PHD**	24.0
9-8251-3928-0	/	**387PHD**	20.5
9-8251-3928-1	/	**387PHD**	20.5
9-8251-3928-2	/	**387PHD**	20.5
9-8251-3928-3	/	**387PHD**	20.5
9-8251-3928-4	/	**387PHD**	20.5
9-8251-3928-5	/	**387PHD**	20.5
9-8251-3928-6	/	**387PHD**	20.5
9-8251-3928-7	/	**387PHD**	20.5
9-8251-3928-8	/	**387PHD**	20.5
9-8251-3928-9	/	**387PHD**	20.5
9-8251-3959-0	/	**653PHD**	20.5
9-8251-3959-1	/	**653PHD**	20.5
9-8251-3959-2	/	**653PHD**	20.5
9-8251-3959-3	/	**653PHD**	20.5
9-8251-3959-4	/	**653PHD**	20.5
IVECO			
4772614	1580TF	**/**	11.0
4774413	366PH	**366PHD**	11.0
4775705	1580TF	**/**	11.0
4776085	1580TF	**/**	11.0
4781356	366PH	**366PHD**	11.0
4792112	366PH	**366PHD**	11.0
4832279	1580TF	**/**	11.0
4841294	376	**366PHD**	11.0
4849406	369	**366PHD**	11.0
4849601	1570TF	**/**	9.5
5951879	366PH	**366PHD**	11.0
7632587	337PH	**337PHD**	11.0
8122193	1540TF	**/**	9.5
9462703	366PH	**366PHD**	11.0
98459883	380PH	**604PHD**	11.0
98462490	374PH	**374PHD**	11.0
98462492	366PH	**366PHD**	11.0
98498630	380PH	**604PHD**	11.0
99444499	1590TF	**/**	24.0
99450392	1590TF	**/**	24.0
99450396	1580TF	**/**	11.0
500303569	1570TF	**/**	9.5
500314583	1580TF	**/**	11.0
500316493	615PH	**615PHD**	11.0
500351992	/	**853PHD**	11.0
4724602EZ	1522TS	**/**	12.0
4776085	1570TF	**/**	9.5
8122180	1560TF	**/**	19.0
99450396	1580TF	**/**	11.0
KHD			
0009 72 02 03	434	**/**	11.0
0120 07 72 020	376	**366PHD**	11.0
0120 07 72 020	366PH	**366PHD**	11.0
116 1134	1580TF	**/**	11.0
116 1135	1560TF	**/**	19.0
116 1636	1580TF	**/**	11.0
116 1637	1560TF	**/**	19.0
116 2543	450	**/**	0.9
116 9117	441	**/**	9.5

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
KHD			
117 0058	441	**/**	9.5
117 0841	450	**/**	0.9
117 3889	1590TF	**/**	24.0
117 4299	1580TF	**/**	11.0
117 4599	1550TF	**/**	19.0
117 9031 EC	1580TF	**/**	11.0
117 9702 ED	1580TF	**/**	11.0
117 9703 ED	1580TF	**/**	11.0
130 10 86	441	**/**	9.5
472 9585	366PH	**366PHD**	11.0
478 1356	376	**366PHD**	11.0
812 2180	1560TF	**/**	19.0
812 2193	1540TF	**/**	9,5
130 1086	441	**/**	9.5
472 9585	366PH	**366PHD**	11.0
478 1356	366PH	**366PHD**	11.0
812 2193	1580TF	**/**	11.0
B 0,15 H7633	450	**/**	0.9
B 12V H7632	1540TF	**/**	9,5
B 12V H7632	1580TF	**/**	11.0
B 24V H7632	1560TF	**/**	19.0
BO 9 H7631	450	**/**	0.9
C 12V H7632	1570TF	**/**	9,5
C 12V H7632	1580TF	**/**	11.0
C 24V H7632	1550TF	**/**	19.0
D11 H7631	886	**/**	11.0
H 7631BO	450	**/**	0.9
S 95 H7631	441	**/**	9.5
S 95L 7631	441	**/**	9.5
KIA			
367104A000	/	**852PHD**	11.0
3671042510	305	**305PHD**	11.0
OK054-18140	/	**682PHD**	11.0
OK710-18140	/	**682PHD**	11.0
OK710-18140A	/	**682PHD**	11.0
OK71E-18140	465	**465PHD**	12.0
OK75A-18140	/	**682PHD**	11.0
KOMATSU			
600-815-1340	897	**406PHD**	20.5
600-815-1350	468	**411PHD**	8.5
600-815-2310	329	**/**	22.5
600-815-2650	329	**/**	22.5
600-815-2660	329	**/**	22.5
611-013-2510	329	**/**	22.5
611-013-2511	329	**/**	22.5
611-013-2610	329	**/**	22.5
KUBOTA			
129155-77801	906	**306PHD**	10.0
15204-6551-1	328	**328PHD**	10.5
15221-6551-3	301	**398PHD**	10.5
15261-6551-0	471	**306PHD**	10.5
15261-6551-2	471	**306PHD**	10.5
15521-6551-0	301	**398PHD**	10.5
15521-6551-2	301	**398PHD**	10.5
15521-6551-3	301	**398PHD**	10.5
15694-6551-2	472	**306PHD**	11.0
15951-6551-1	306	**306PHD**	12.0

■ **=not yet in production**

Conversion List O.E.M.

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
KUBOTA			
15951-6551-2	470	**306PHD**	10.5
16241-6551-1	473	**/**	11.0
16851-6551-0	905	**/**	11.0
16851-6551-2	905	**/**	11.0
18536-6060	902	**317PHD**	10.5
18536-6092	903	**317PHD**	12.0
19077-6551-0	904	**/**	11.0
19077-6551-1	904	**/**	11.0
8412	306	**306PHD**	12.0
YF04 / 95Y4	905	**/**	11.0
LANCIA			
975331	439	**/**	24.0
4393814	366PH	**366PHD**	11.0
4714294	370	**366PHD**	11.0
4729585	366PH	**366PHD**	11.0
4754011	366PH	**366PHD**	11.0
4774413	366PH	**366PHD**	11.0
4775705	1580TF	**/**	11.0
4776085	1580TF	**/**	11.0
4781356	366PH	**366PHD**	11.0
4792112	366PH	**366PHD**	11.0
4849406	366PH	**366PHD**	11.0
5493206	366PH	**366PHD**	11.0
5500842	392	**/**	9.5
5950464	370	**366PHD**	11.0
5951881	366PH	**366PHD**	11.0
5951882	366PH	**366PHD**	11.0
5973752	366PH	**366PHD**	11.0
5990986	366PH	**366PHD**	11.0
61617002	405PH	**405PHD**	11.0
7632587	337PH	**337PHD**	11.0
7735920	366PH	**366PHD**	11.0
8122180	1560TF	**/**	19.0
8122193	1580TF	**/**	11.0
46447610	384PH	**384PHD**	11.0
46451951	612PH	**612PHD**	11.0
46754154	/	**630PHD**	11.0
60812292	366PH	**366PHD**	11.0
61617002	405PH	**405PHD**	11.0
77359200	366PH	**366PHD**	11.0
88900066	447	**/**	9.5
96165724	366PH	**366PHD**	11.0
98462492	366PH	**366PHD**	11.0
9623638380	617PH	**617PHD**	11.0
LEYLAND			
075 95 77	605PH	**366PHD**	11.5
LOMBARDINI			
107.2100.072	366PH	**366PHD**	11.0
107.2100.079	366PH	**366PHD**	11.0
107.2100.089	606PH	**374PHD**	12.5
6254414	606PH	**374PHD**	12.5
MAN			
51 26803 0034	1580TF	**/**	11.0
A 5 000 04 1358	1501TS	**/**	12.0
000 835 0026	880	**/**	4.0
51 26803 0034	1580TF	**/**	11.0
51 2603 0019		**/**	19.0
51 26803 0008	1560TF	**/**	19.0

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
MAN			
51 26803 0015	1560TF	**/**	19.0
51 26803 0019	1560TF	**/**	19.0
51 26803 0021	1560TF	**/**	19.0
51 26803 0022	1560TF	**/**	19.0
81 25923 0001	1550TF	**/**	19.0
MAZDA			
1353-18140	317	**317PHD**	12.0
1353-18140A	893	**317PHD**	12.0
1354-18140A	/	**320PHD**	24.0
4869-18-140A	895	**317PHD**	10.5
IE07-18-601	601PH	**601PHD**	10.0
RF1M-18-601	/	**646PHD**	11.0
RF2A-18-601	/	**668PHD**	11.0
RFG1-18-601	/	**682PHD**	11.0
RFJ5-18-601	892	**317PHD**	12.0
RFN1 18 601	/	**682PHD**	11.0
RFN1 18 601A	/	**682PHD**	11.0
RFR1 18 601	/	**682PHD**	11.0
RFS5 18 601	465	**465PHD**	12.0
RFS5 18 601A	465	**465PHD**	12.0
S201 18 140	322	**317PHD**	10.5
S210-18140	/	**682PHD**	11.0
S501 18 140	322	**317PHD**	12.0
S501-18140A	322	**317PHD**	10.5
SE01-18140A	/	**320PHD**	23.0
VS01-18-601	465	**465PHD**	12.0
WLO3-18-601	/	**682PHD**	11.0
WLO1 18 601	/	**682PHD**	11.0
WLY5-18-601	/	**646PHD**	11.0
Y701-18-601	457	**457PHD**	11.0
MERCEDES-BENZ			
000 150 00 81	397PH	**397PHD**	11.5
000 159 04 01	373	**/**	18.0
000 159 06 01	486	**/**	0.9
000 159 21 01	/	**432PHD**	11.5
000 159 24 01	486	**/**	0.9
000 159 25 01	442	**/**	9,5
000 159 26 01	486	**/**	0.9
000 159 27 01	/	**621PHD**	11.5
000 159 28 01	/	**625PHD**	11.5
000 159 37 01	/	**625PHD**	11.5
000 159 38 01	/	**625PHD**	11.5
000 159 41 01	440	**/**	10.5
000 159 43 01	/	**OUT OF PRODUCTION**	
000 159 48 01	/	**625PHD**	11.5
000 159 49 01	/	**625PHD**	11.5
000 159 51 01	/	**OUT OF PRODUCTION**	
000 159 60 01	450	**/**	0,9
000 159 61 01	450	**/**	0,9
000 159 74 01	886	**/**	11.0
000 159 75 01	371	**366PHD**	11.5
000 159 77 01	366PH	**366PHD**	11.0
000 159 81 01	366PH	**366PHD**	11.0
000 159 82 01	373	**/**	18.0
000 159 83 01	371	**366PHD**	11.5
000 159 90 01	486	**/**	0,9
000 159 91 01	442	**/**	9.0
000 159 96 01	366PH	**366PHD**	11.0
000 159 99 01	366PH	**366PHD**	11.0
000 835 0026	880	**/**	4.0

■ **=not yet in production**

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
MERCEDES-BENZ			
000 835 0016	881	**/**	12.0
001 152 26 01	610PH	**610PHD**	11.5
001 159 00 01	365PH	**365PHD**	11.5
001 159 04 01	373	**/**	18.0
001 159 15 01	431PH	**431PHD**	11.5
001 159 16 01	431PH	**431PHD**	11.5
001 159 17 01	365PH	**365PHD**	11.5
001 159 20 01	432PH	**432PHD**	11.5
001 159 21 01	432PH	**432PHD**	11.5
001 159 22 01	366PH	**366PHD**	11.0
001 159 25 01	486	**/**	0.9
001 159 26 01	610PH	**610PHD**	11.5
001 159 27 01	/	**621PHD**	11.5
001 159 28 01	/	**625PHD**	11.5
001 159 35 01	366PH	**366PHD**	11.0
001 159 36 01	365PH	**365PHD**	11.5
001 159 37 01	/	**625PHD**	11.5
001 159 38 01	/	**625PHD**	11.5
001 159 42 01	/	**625PHD**	11.5
001 159 48 01	/	**625PHD**	11.5
001 159 49 01	/	**625PHD**	11.5
001 159 52 01	/	**833PHD**	5.0
A 001 159 04 01	373	**/**	18
A 660 159 00 01	/	**632PHD**	11.5
MITSUBISHI			
1304-18140	325	**/**	22.5
30666-20309	889	**/**	10.5
30666-51301	**/**	**323PHD**	22.5
31166-03101	**OUT OF PRODUCTION**		
31366-02100	358	**/**	22.5
31366-02109	358	**/**	22.5
31366-14300	357	**/**	10.5
31366-14301	357	**/**	10.5
31366-14302	357	**/**	10.5
31366-14701	358	**/**	22.5
34466-31300	/	**342PHD**	22.0
36710-42500	476	**476PHD**	11.0
F0098000017	/	**656PHD**	10.5
K 9670240	357	**/**	10.5
M8 167 32	600PH	**600PHD**	11.0
M8 838 28	/	**628PHD**	11.0
MD070194	459	**459PHD**	6,2
MD077167	459	**459PHD**	6,2
MD354500	479	**317PHD**	11.0
MD014997	341	**459PHD**	6.0
MD050212	335	**459PHD**	12.0
MD092392	459	**459PHD**	6.2
MD197511	476	**476PHD**	11.0
MD201632	475	**305PHD**	11.0
MD301950	479	**317PHD**	11.0
MD344469	476	**476PHD**	11.0
ME007637	/	**658PHD**	23.0
ME007547	358	**/**	20,5
ME007615	360	**/**	11.0
ME007637	/	**658PHD**	23.0
ME007649	/	**658PHD**	23.0
ME017010	**OUT OF PRODUCTION**		
ME037002	**OUT OF PRODUCTION**		
ME200970	/	**657PHD**	11.0
ME201632	/	**305PHD**	11.0
ME201638	/	**657PHD**	11.0

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
MITSUBISHI			
ME203539	/	**641PHD**	11.0
ME203583	305	**305PHD**	11.0
ME203754	305	**305PHD**	11.0
MM105560	358	**/**	22.5
MM401621	328	**/**	10.5
MM401625	358	**/**	22.5
MM409510	340	**/**	10.5
MM43214801	/	**656PHD**	10.5
MQ 901659	/	**646PHD**	11.0
MR577131	476	**476PHD**	11.0
NAVISTAR			
304131R2	480	**/**	11.0
304131R3	480	**/**	11.0
NISSAN			
11065-02T00	/	**379PHD**	24.0
11065-10G00	306	**306PHD**	11.0
11065-10T01	/	**346PHD**	24.0
11065-16A00	343	**324PHD**	8.5
11065-16A01	344	**344PHD**	8.5
11065-16A05	324	**324PHD**	6.5
11065-16A06	327	**344PHD**	6.5
11065-16A10	343	**324PHD**	8.5
11065-16A11	344	**344PHD**	12.0
11065-16A15	324	**324PHD**	6.5
11065-16A16	344	**344PHD**	12.0
11065-2W202	/	**645PHD**	11.0
11065-2W211	/	**645PHD**	11.0
11065-31N00	313	**313PHD**	11.0
11065-31W00	303	**306PHD**	11.0
11065-31W01	303	**306PHD**	11.0
11065-34W00	307	**306PHD**	11.0
11065-37506	304	**306PHD**	10.5
11065-37507	304	**306PHD**	10.5
11065-43G01	345	**459PHD**	11.0
11065-4P400	/	**657PHD**	11.0
11065-57J00	315PH	**315PHD**	11.0
11065-5C900	315PH	**315PHD**	11.0
11065-63G00	459	**459PHD**	6,2
11065-63G00	345	**459PHD**	11.0
11065-65N01	/	**313PHD**	11.0
11065-7C000	313	**313PHD**	11.0
11065-7F400	/	**644PHD**	11.0
11065-9C600	305	**305PHD**	11.0
11065-AD200	/	**643PHD**	11.0
11065-AD201	/	**643PHD**	11.0
11065-C8600	/	**308PHD**	24.0
11065-D9701	305	**305PHD**	11.0
11065-G2400	313	**313PHD**	11.0
11065-G5501	305	**305PHD**	11.0
11065-HA300	/	**646PHD**	11.0
11065-J2000	168	**382PHD**	10.0
11065-J5501	382	**382PHD**	9.5
11065-J5502	382	**382PHD**	9.5
11065-J6500	/	**379PHD**	23.0
11065-OW801	/	**644PHD**	11.0
11065-T3400	/	**312PHD**	19.0
11065-T3401	/	**312PHD**	19.0
11065-T3470	/	**312PHD**	23.0
11065-T8200	311	**306PHD**	10.5
11065-T8201	300	**/**	23.0

■ **=not yet in production**

Conversion List O.E.M.

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
NISSAN			
11065-T8202	311	**306PHD**	10.5
11065-T8203	300	**/**	23.0
11065-T9000	/	**379PHD**	24.0
11065-T9001	/	**379PHD**	23.0
11065-V0700	353	**350PHD**	11.0
11065-V0710	353	**350PHD**	11.0
11065-V7202	332	**/**	6.5
11065-V7203	330	**/**	6.5
11065-W2500	349	**350PHD**	6.5
11065-W2510	349	**350PHD**	6.5
11065-W3400	350	**350PHD**	8.5
11065-W3410	350	**350PHD**	8.5
11065-Y1400	309	**306PHD**	9.5
11065-Y1401	309	**306PHD**	9.5
11065-Y1402	310	**306PHD**	9.5
11065-Y1403	310	**306PHD**	9.5
11065-Y1404	310	**306PHD**	9.5
11065-Z5000	/	**379PHD**	24.0
11065-Z5500	/	**379PHD**	19.0
758 000 06-0	366PH	**366PHD**	11.0
039 034 17-0	348PH	**348PHD**	11.0
997261	429	**608PHD**	11.0
NISSAN Motoriberica			
11065-D9701	305	**305PHD**	11.0
11065-D9702	305	**305PHD**	11.0
11065-G2400	313	**313PHD**	11.0
11065-Y9703	348PH	**348PHD**	11.0
758 000 06-0	376	**366PHD**	11.0
OPEL GM			
5954839	/	**665PHD**	11.0
03 443 087	446	**/**	11.0
03 443 087	440	**/**	11.0
03 443 450	440	**/**	11.0
09 110 945	614PH	**614PHD**	11.0
09 111 145	603PH	**603PHD**	11.0
09 118 201	620PH	**620PHD**	11.0
12 14 033	/	**649PHD**	11.0
12 14 035	/	**638PHD**	11.0
12 14 065	/	**638PHD**	11.0
12 14 018	/	**616PHD**	11.0
12 14 300	447	**/**	9.5
12 14 301	/	**638PHD**	11.0
12 14 302	433	**/**	8.0
12 14 303	434	**/**	11.0
12 14 304	366PH	**366PHD**	11.0
12 14 305	/	**649PHD**	11.0
12 14 306	366PH	**366PHD**	11.0
12 14 307	366PH	**366PHD**	11.0
12 14 308	319	**339PHD**	5.0
12 14 309	302	**316PHD**	5.0
12 14 310	316	**316PHD**	11.0
12 14 311	339	**339PHD**	11.0
12 14 312	339	**339PHD**	11.0
12 14 315	316	**316PHD**	11.0
12 14 316	457	**457PHD**	11.0
12 14 317	366PH	**366PHD**	11.0
12 14 319	366PH	**366PHD**	11.0
12 14 321	386	**386PHD**	11.0
12 14 322	613PH	**613PHD**	11.0
12 14 323	386	**386PHD**	11.0

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
OPEL GM			
12 14 324	363PH	**366PHD**	11.0
12 14 427	405PH	**405PHD**	11.0
12 14 456	/	**622PHD**	11.0
12 14 457	/	**622PHD**	11.0
12 14 459	/	**666PHD**	11.0
2666 A 003	608PH	**608PHD**	11.0
34 48 796	433	**/**	8.0
43 00 425	386	**386PHD**	11.0
43 00 615	386	**386PHD**	11.0
44 02 945	614PH	**614PHD**	11.0
44 03 145	603PH	**603PHD**	11.0
56 14 216	348PH	**348PHD**	11.0
56 14 217	450	**/**	0,9
56 14 218	371	**366PHD**	11.5
56 14 219	348PH	**348PHD**	11.0
56 14 220	416	**416PHD**	5.0
56 14 221	319	**339PHD**	5.0
5614215	480	**/**	11.0
88 900 715	/	**625PHD**	11.5
88 900 716	405PH	**405PHD**	11.0
88 900 717	/	**626PHD**	12.0
88 900 718	/	**621PHD**	11.5
88 900 719	/	**632PHD**	11.5
88 900 720	601PH	**601PHD**	10.0
88 900 721	/	**616PHD**	11.0
88 900 722	611PH	**611PHD**	11.0
88 900 723	348PH	**348PHD**	11.0
88 900 724	431PH	**431PHD**	11.5
88 900 725	366PH	**366PHD**	11.0
88 900 726	403PH	**403PHD**	11.0
88 900 727	432PH	**432PHD**	11.5
88 900 728	366PH	**366PHD**	11.0
88 900 729	384PH	**384PHD**	11.0
88 900 730	370	**366PHD**	11.0
88 900 731	371	**366PHD**	11.5
88 900 732	361	**604PHD**	11.0
88 900 733	376	**366PHD**	11.0
88 900 734	376	**366PHD**	11.0
88 900 735	603PH	**603PHD**	11.0
88 900 736	376	**366PHD**	11.0
88 900 737	378	**603PHD**	11.5
88 900 738	363PH	**366PHD**	11.0
88 900 740	692	**366PHD**	11.0
88 900 740	602PH	**602PHD**	11.0
88 900 741	365PH	**365PHD**	11.5
88 900 742	368PH	**366PHD**	11.0
88 900 743	339	**339PHD**	11.0
90 003 450	433	**/**	8.0
90 019 495	434	**/**	11.0
90 033 357	434	**/**	11.0
90 040 991	604PH	**604PHD**	11.0
90 051 950	366PH	**366PHD**	11.0
90 093 867	366PH	**366PHD**	11.0
90 093 897	366PH	**366PHD**	11.0
90 166 155	366PH	**366PHD**	11.0
90 210 824	366PH	**366PHD**	11.0
90 464 737	613PH	**613PHD**	11.0
90 487 858	366PH	**366PHD**	11.0
90 510 924	366PH	**366PHD**	11.0
90 540 864	363PH	**366PHD**	11.0
90 569 338	/	**622PHD**	11.0
91 10 945	614PH	**614PHD**	11.0

■ **=not yet in production**

Conversion List O.E.M.

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
OPEL GM			
91 11 145	380PH	**604PHD**	11.0
91 153 919	405PH	**405PHD**	11.0
91 182 01	/	**622PHD**	11.0
91 966 69	/	**649PHD**	11.0
93 171 875	/	**616PHD**	11.0
93 178 047	/	**819PHD**	11.0
93 178 225	/	**649PHD**	11.0
93 178 411	/	**851PHD**	11.0
94 133 759	386	**386PHD**	11.0
94 140 115	386	**386PHD**	11.0
94 175 158	386	**386PHD**	11.0
94 319 700	339	**339PHD**	11.0
94 402 303	302	**316PHD**	5.0
94 422 171	319	**339PHD**	5.0
94 422 1719	319	**339PHD**	5.0
94 439 218	319	**339PHD**	5.0
94 481 972	316	**316PHD**	11.0
97 044 037	316	**316PHD**	11.0
97 080 554	457	**457PHD**	11.0
97 210 818	/	**638PHD**	11.0
97 464 737	/	**649PHD**	11.0
PERKINS			
185 366 190	317	**317PHD**	10.5
2666103	1501TS	**/**	12.0
2666104	1521TS	**/**	24.0
2666108	1501TS	**/**	12.0
2666408	701	**/**	11.0
CD10199	1521TS	**/**	24.0
K 166 AF 01	376	**366PHD**	11.0
OE42898	2530TS	**/**	24.0
2666 A 002	429	**608PHD**	11.0
2666 A 003	608PH	**608PHD**	11.0
PEUGEOT			
5 415 813	440	**/**	11.0
5 460 556	392	**/**	9,5
5932 2Y	403PH	**403PHD**	11.0
5932 565 882	447	**/**	9.5
5960 12	/	**818PHD**	11.0
5960 32	363PH	**366PHD**	11.0
5960 33	384PH	**384PHD**	11.0
5960 34	365PH	**365PHD**	11.5
5960 35	432PH	**432PHD**	11.5
5960 36	316	**316PHD**	11.0
5960 38	/	**616PHD**	11.0
5960 39	337PH	**337PHD**	11.0
5960 40	499	**411PHD**	10.5
5960 41	612PH	**612PHD**	11.0
5961 05	447	**/**	9.5
5961 18	435	**/**	9.5
5961 22	447	**/**	9.5
5961 35	447	**/**	9.5
5961 39	376	**366PHD**	11.0
5961 40	370	**366PHD**	11.0
5961 53	376	**366PHD**	11.0
5961 54	370	**366PHD**	11.0
5961 57	376	**366PHD**	11.0
5961 58	370	**366PHD**	11.0
5961 95	373	**/**	18.0
5962 1P	620PH	**620PHD**	11.0
5962 1Q	620PH	**620PHD**	11.0

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
PEUGEOT			
5962 35	371	**366PHD**	11.5
5962 3C	617PH	**617PHD**	11.0
5962 3E	617PH	**617PHD**	11.0
5962 3H	366PH	**366PHD**	11.0
5962 4J	611PH	**611PHD**	11.0
5962 4K	385PH	**385PHD**	11.0
5962 4L	609PH	**609PHD**	11.0
5962 74	376	**366PHD**	11.0
5962 7F	617PH	**617PHD**	11.0
5962 7G	617PH	**617PHD**	11.0
5962 7Z	600PH	**600PHD**	11.0
5962 C7	447	**/**	9.5
5962 J2	602PH	**602PHD**	11.0
5962 J3	381	**603PHD**	11.0
5962 J4	376	**366PHD**	11.0
5962 J5	371	**366PHD**	11.5
5962 J6	376	**366PHD**	11.0
5962 J7	354	**348PHD**	11.0
5962 K5	376	**366PHD**	11.0
5962 R8	366PH	**366PHD**	11.0
5962 S8	366PH	**366PHD**	11.0
5962 T1	602PH	**602PHD**	11.0
5962 T2	600PH	**600PHD**	11.0
5962 T3	366PH	**366PHD**	11.0
5962 T7	378	**603PHD**	11.5
5962 W2	403PH	**403PHD**	11.0
5962 W3	403PH	**403PHD**	11.0
5962 W8	366PH	**366PHD**	11.0
59622Y	403PH	**403PHD**	11.0
59622Z	403PH	**403PHD**	11.0
59623E	617PH	**617PHD**	11.0
5962X1	366PH	**366PHD**	11.0
5981 10	366PH	**366PHD**	11.0
5981 11	366PH	**366PHD**	11.0
5981 13	366PH	**366PHD**	11.0
5981 15	366PH	**366PHD**	11.0
5 414 326	392	**/**	9.5
5 415 813	447	**/**	10.5
5 460 556	392	**/**	9.5
5 477 234	392	**/**	9.5
5 491 387	392	**/**	9.5
5 500 842	392	**/**	9.5
7549 2365	392	**/**	9.5
7563 225 100	435	**/**	9.5
79 32 567 717	366PH	**366PHD**	11.0
7932 565 492	435	**/**	9.5
7932 564 528	366PH	**366PHD**	11.0
7932 565 563	435	**/**	9.5
7932 565 882	447	**/**	9.5
7932 567 619	447	**/**	9.5
7932 567 717	366PH	**366PHD**	11.0
7932 567 718	370	**366PHD**	11.0
7950 076 593	366PH	**366PHD**	11.0
91 507 718	366PH	**366PHD**	11.0
91 508 610	366PH	**366PHD**	11.0
91 521 849	366PH	**366PHD**	11.0
91 536 646	366PH	**366PHD**	11.0
92 515 867	366PH	**366PHD**	11.0
92 515 869	366PH	**366PHD**	11.0
9150 771 880	366PH	**366PHD**	11.0
9150 860 280	376	**366PHD**	11.0
9150 861 080	376	**366PHD**	11.0

■ **=not yet in production**

Conversion List O.E.M.

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
PEUGEOT			
9151 586 780	366PH	**366PHD**	11.0
9151 586 980	376	**366PHD**	11.0
9152 184 980	376	**366PHD**	11.0
9153 664 680	376	**366PHD**	11.0
9190 861 080	366PH	**366PHD**	11.0
9250 888 280	366PH	**366PHD**	11.0
93 010 500	373	**/**	18
95 493 206	366PH	**366PHD**	11.0
95 534 787	366PH	**366PHD**	11.0
95 534 788	370	**366PHD**	11.0
96 009 783	381	**603PHD**	11.0
96 009 783	366PH	**366PHD**	11.0
96 076 258	381	**603PHD**	11.0
96 076 258	366PH	**366PHD**	11.0
96 104 689	366PH	**366PHD**	11.0
96 141 678	366PH	**366PHD**	11.0
96 165 724	366PH	**366PHD**	11.0
96 165 734	403PH	**403PHD**	11.0
96 236 383	617PH	**617PHD**	11.0
96 389 858	617PH	**617PHD**	11.0
9616 572 480	366PH	**366PHD**	11.0
9631 658 980	403PH	**403PHD**	11.0
9633 214 380	366PH	**366PHD**	11.0
HG 262 1	446	**/**	11.0
HG 262 1	440	**/**	11.0
MK P00 068	361	**604PHD**	11.0
MK P00 068	603PH	**603PHD**	11.0
MKD 000 66	366PH	**366PHD**	11.0
MKD 000 68	603PH	**603PHD**	11.0
MKP 000 64	366PH	**366PHD**	11.0
MKP 000 65	366PH	**366PHD**	11.0
MKP 000 67	366PH	**366PHD**	11.0
MKP 000 69	366PH	**366PHD**	11.0
MKP 000 70	450	**/**	0.9
MKP 000 71	348PH	**348PHD**	11.0
POCLAIN			
D 0041518	1550TF	**/**	19.0
Q 0041506	1560TF	**/**	19.0
W 0041512	441	**/**	9.5
PSA			
96 38 985 980	617PH	**617PHD**	11.0
PUCH			
159 6101	450	**/**	0,9
000 1 59 610 1	450	**/**	0,9
716+ 1 09 033 0	354	**348PHD**	11.0
RENAULT			
00 25 871 045	**OUT OF PRODUCION**		
01 22 999 900	434	**/**	11.0
08 54 647 500	440	**/**	11.0
08 54 997 100	447	**/**	9.5
50 00 270 881	1560TF	**/**	19.0
50 00 590 058	1560TF	**/**	19.0
50 01 001 587	370	**366PHD**	11.0
50 01 829 283	447	**/**	9.5
77 00 100 558	614PH	**614PHD**	11.0
77 00 100 586	609PH	**609PHD**	11.0
77 00 100 635	/	**629PHD**	11.0
77 00 103 674	/	**640 PHD**	11.0

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
RENAULT			
77 00 105 290	385PH	**385PHD**	11.0
77 00 111 323	/	**628PHD**	11.0
77 00 111 940	/	**629PHD**	11.0
77 00 662 199	370	**366PHD**	11.0
77 00 673 874	376	**366PHD**	11.0
77 00 701 130	376	**366PHD**	11.0
77 00 704 185	367	**602PHD**	11.0
77 00 715 768	376	**366PHD**	11.0
77 00 733 076	376	**366PHD**	11.0
77 00 734 956	367	**602PHD**	11.0
77 00 741 144	376	**366PHD**	11.0
77 00 854 538	600PH	**600PHD**	11.0
77 00 855 865	602PH	**602PHD**	11.0
77 00 856 238	602PH	**602PHD**	11.0
77 00 856 292	600PH	**600PHD**	11.0
77 00 858 208	609PH	**609PHD**	11.0
77 00 860 796	609PH	**609PHD**	11.0
77 00 861 906	609PH	**609PHD**	11.0
77 00 867 002	385PH	**385PHD**	11.0
77 00 867 617	600PH	**600PHD**	11.0
77 00 874 336	385PH	**385PHD**	11.0
77 01 029 762	376	**366PHD**	11.0
77 01 035 956	369	**366PHD**	11.0
77 01 039 387	366PH	**366PHD**	11.0
77 01 040 208	380PH	**604PHD**	11.0
77 01 349 475	376	**366PHD**	11.0
77 01 349 943	602PH	**602PHD**	11.0
77 01 349 949	600PH	**600PHD**	11.0
77 01 414 072	376	**366PHD**	11.0
77 01 414 076	370	**366PHD**	11.0
77 01 414 077	348PH	**348PHD**	11.0
77 01 414 078	361	**604PHD**	11.0
77 01 414 079	371	**366PHD**	11.5
77 01 414 080	376	**366PHD**	11.0
77 01 414 081	378	**603PHD**	11.5
77 01 414 081	603PH	**603PHD**	11.0
77 01 414 083	381	**603PHD**	11.0
77 01 414 084	429	**608PHD**	11.0
77 01 414 086	376	**366PHD**	11.0
77 01 414 088	348PH	**348PHD**	11.0
77 01 414 089	366PH	**366PHD**	11.0
77 01 414 107	365PH	**365PHD**	11.5
77 01 414 108	363PH	**366PHD**	11.0
77 01 414 123	366PH	**366PHD**	11.0
77 01 414 157	365PH	**365PHD**	11.5
77 01 414 162	366PH	**366PHD**	11.0
79 32 563 970	447	**/**	9.5
79 32 567 717	366PH	**366PHD**	11.0
82 00 012 099	/	**640 PHD**	11.0
86 71 004 016	348PH	**348PHD**	11.0
86 71 004 017	603PH	**603PHD**	11.0
86 71 004 018	366PH	**366PHD**	11.0
ROVER / MG			
247 712 F1	452	**/**	1,7
510 078	452	**/**	1,7
568 335	452	**/**	1,7
ADU 9830	366PH	**366PHD**	11.0
ERC 8450	370	**366PHD**	11.0
ERC 8648	366PH	**366PHD**	11.0
ERR 4084	/	**633PHD**	23.0
ERR 6066	/	**631PHD**	11.0

■ **=not yet in production**

Conversion List O.E.M.

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
ROVER / MG			
ETC 8847	397PH	**397PHD**	11.5
NCC 100080	405PH	**405PHD**	11.0
NCC 100080L	405PH	**405PHD**	11.0
NCC 100100	403PH	**403PHD**	11.0
NCC100050	609PH	**609PHD**	11.0
NCC100050L	609PH	**609PHD**	11.0
NCC100120	/	**616PHD**	11.0
NCC100120L	/	**616PHD**	11.0
SAAB			
5954839	/	**665PHD**	11.0
SEAT			
000 394 0685	370	**366PHD**	11.0
N 105 792 01	/	**647PHD**	11.0
N 105 792 02	/	**647PHD**	11.0
SE 138919 000 A	370	**366PHD**	11.0
X 0396 550 20	376	**366PHD**	11.0
0581CR1	376	**366PHD**	11.0
SMART			
0004562V00300000(	/	**632PHD**	11.5
SSANGYONG			
00115-90001	365PH	**365PHD**	11.5
STEYR MOTORS			
2177492/6	/	**611PHD / 24**	24.0
SUZUKI			
00000-A01289	366PH	**366PHD**	11.0
00000-A01354-000	366PH	**366PHD**	11.0
09900-HDI01-000	617PH	**617PHD**	11.0
09900-TD001-000	366PH	**366PHD**	11.0
15320-86CB0	366PH	**366PHD**	11.0
18550-78E00	/	**682PHD**	11.0
18550-66G00	366PH	**366PHD**	11.0
18550-67G00	617PH	**617PHD**	11.0
18550-78E00	317	**317PHD**	12.0
18550-78E11	/	**646PHD**	11.0
TALBOT			
91 507 715 80	376	**366PHD**	11.0
91 507 715 80	366PH	**366PHD**	11.0
91 507 719 80	376	**366PHD**	11.0
91 521 918 80	366PH	**366PHD**	11.0
93 010 500 80	370	**366PHD**	11.0
95 534 788 80	366PH	**366PHD**	11.0
TOYOTA			
19850-0W010	/	**660PHD**	11.0
19850-27010	/	**642PHD**	11.0
19850-30010	/	**642PHD**	11.0
19850-45030	420	**425PHD**	11.0
19850-45030	426	**425PHD**	11.0
19850-45031	420	**425PHD**	11.0
19850-45031	426	**425PHD**	11.0
19850-46020	437	**/**	8.0
19850-46021	437	**/**	8.0
19850-54010	425	**425PHD**	11.0
19850-54020	/	**406PHD**	23.0
19850-54030	420	**425PHD**	11.0

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
TOYOTA			
19850-54031	426	**425PHD**	11.0
19850-54040	/	**411PHD**	23.0
19850-54050	419	**425PHD**	7.0
19850-54060	/	**411PHD**	16.0
19850-54070	421	**425PHD**	6.0
19850-54071	421	**425PHD**	6.0
19850-54090	424	**425PHD**	11.0
19850-54110	477	**411PHD**	11.0
19850-54120	426	**425PHD**	11.0
19850-54130	477	**411PHD**	11.0
19850-54150	425	**425PHD**	11.0
19850-56010	/	**406PHD**	19.0
19850-56012	/	**406PHD**	20.5
19850-56020	402	**411PHD**	8.0
19850-56021	462	**411PHD**	8.5
19850-56022	462	**411PHD**	8.5
19850-58010	/	**406PHD**	23.0
19850-64010	404	**411PHD**	7.0
19850-64020	466	**411PHD**	11.0
19850-64030	411	**411PHD**	11.0
19850-64031	211	**411PHD**	11.0
19850-64031B	411	**411PHD**	11.0
19850-64050	411	**411PHD**	11.0
19850-67020	478	**478PHD**	11.0
19850-67030	478	**478PHD**	11.0
19850-68010	411	**411PHD**	10.5
19850-68020	/	**406PHD**	23.0
19850-68030	463	**411PHD**	8.5
19850-68040	/	**406PHD**	20.5
19850-68050	409	**411PHD**	6.0
19850-68060	/	**406PHD**	14.0
19850-77010	/	**318PHD**	21.0
19850-77011	/	**318PHD**	21.0
19850-78010	/	**/**	14.0
19850-87309	463	**411PHD**	8.5
VAUXHALL			
900 33357	370	**366PHD**	11.0
900 93897	370	**366PHD**	11.0
902 10824	376	**366PHD**	11.0
VOLKSWAGEN			
000 395 4619	376	**366PHD**	11.0
059 963 319	/	**626PHD**	12.0
059 963 319 A	/	**626PHD**	12.0
061 905 061	348PH	**348PHD**	11.0
062 905 061	/	**639PHD**	11.0
068 905 061	348PH	**348PHD**	11.0
171 911 261 A	/	**KE201PH**	11.0
171 911 261 B	/	**KE201PH**	11.0
171 911 261 C	/	**KE201PH**	11.0
171 911 261 D	/	**KE201PH**	11.0
171 911 261 E	/	**KE201PH**	11.0
637 0601	486	**/**	0,9
N 019 081 01	348PH	**348PHD**	11.0
N 019 081 02	348PH	**348PHD**	11.0
N 019 081 1	348PH	**348PHD**	11.0
N 019 081 2	348PH	**348PHD**	11.0
N 019 081 4	348PH	**348PHD**	11.0
N 019 097 01	348PH	**348PHD**	11.0
N 019 097 1	348PH	**348PHD**	11.0
N 019 100 01	348PH	**348PHD**	11.0

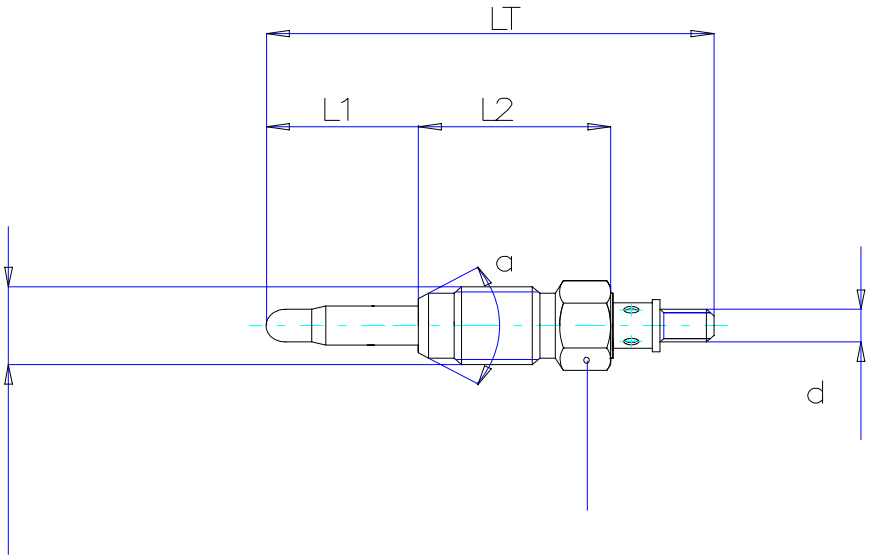
■ = **not yet in production**

Conversion List O.E.M.

OUR REFERENCES			
O.E.M. Ref.	**Single Coil**	**Twin Coil**	**V**
VOLKSWAGEN			
N 019 100 02	348PH	**348PHD**	11.0
N 019 100 05	348PH	**348PHD**	11.0
N 019 100 06	348PH	**348PHD**	11.0
N 019 100 1	348PH	**348PHD**	11.0
N 019 100 2	348PH	**348PHD**	11.0
N 019 100 5	348PH	**348PHD**	11.0
N 019 100 6	348PH	**348PHD**	11.0
N 101 401 01	611PH	**611PHD**	11.0
N 101 401 02	611PH	**611PHD**	11.0
N 101 401 03	611PH	**611PHD**	11.0
N 101 401 04	611PH	**611PHD**	11.0
N 101 401 05	611PH	**611PHD**	11.0
N 101 664 01	611PH	**611PHD**	11.0
N 102 130 01	348PH	**348PHD**	11.0
N 102 130 02	348PH	**348PHD**	11.0
N 103 021.01	607PH	**607PHD**	11.0
N 103 021.02	607PH	**607PHD**	11.0
N 105 792 01	/	**647PHD**	11.0
N 105 792 02	/	**647PHD**	11.0
251 963 319 D	882	**/**	12.0
251 963 319 E	881	**/**	12.0
VOLVO			
829857	376	**366PHD**	11.0
829859	373	**/**	18.0
837329	1550TF	**/**	19.0
840643	376	**366PHD**	11.0
870325	450	**/**	0.9
870680	441	**/**	9.5
870681	445	**/**	23
870846	441	**/**	9.5
1257141	348PH	**348PHD**	11.0
1257889	348PH	**348PHD**	11.0
1542319	608PH	**608PHD**	11.0
1542411	608PH	**608PHD**	11.0
3092109	608PH	**608PHD**	11.0
3094343	608PH	**608PHD**	11.0
3287815	366PH	**366PHD**	11.0
8631607	/	**826PHD**	11.0
YANMAR			
129155-77800	306	**306PHD**	12.0
129155-77801	700	**306PHD**	10.0
129795-77800	306	**306PHD**	12.0
WEBASTO			
122 793	883	**/**	24.0
157 915	883	**/**	24.0
169 587	880	**/**	4.0
462 799	881	**/**	12.0
479 594	881	**/**	12.0

■ **=not yet in production**

Technical List



Our Ref.	DIMENSIONS					TECHNICAL DATA				*Tube*
	L1	L2	LT			d	V	T ± 1"	a°	*Diam.*
Twin Coil										
653PHD	24	48.5	86.6	12	M10X1,25	M4	20.5	6	120	*5*
387PHD	25	96	135.1	12	M12X1,25	M4	24.0	6	120	*5*
386PHD	25	96	135.1	12	M12X1,25	M4	12.0	6	120	*5*
316PHD	18	48.5	80.6	12	M10X1,25	M4	12.0	6	120	*5*
339PHD	24	48.5	86.6	12	M10X1,25	M4	12.0	6	120	*5*
457PHD	18	53	85.1	12	M10X1,25	M4	11.0	6	120	*5*
328PHD	22.5	45	81.1	12	M10X1,25	M4	10.5	6	90	*5*
641PHD	35	115	170	12	M10X1,25	M4	11.0	6	123	*5*
656PHD	24	36	75	12	M10X1,25	M4	10.5	6	123	*5*
657PHD	22	47.5	89	12	M10X1,25	M4	11.0	5	123	*5*
333PHD	23	52.5	89.1	12	M10X1,25	M4	21.0	6	120	*5*
658PHD	25	65	130	12	M10X1,25	M4	23.0	6	123	*5*
476PHD	18	45	77.1	12	M10X1,25	M4	11.0	6	120	*5*
356PHD	20	59	92.6	12	M12X1,25	M4	20.5	6	/	*5*
459PHD	22	52	88.1	12	M10X1,25	M4	12.0	6	120	*5*
342PHD	22.5	45	81.1	12	M10X1,25	M4	22.0	6	90	*5*
305PHD	18.5	47.5	80.1	12	M10X1,25	M4	11.0	6	120	*5*
379PHD	21	55	89.6	14	M12X1,25	M4	24.0	6	120	*5*
382PHD	21	55	89.6	14	M12X1,25	M4	12.0	6	120	*5*
324PHD	24.5	47.5	85.6	12	M10X1	M4	12.0	6	120	*5*
350PHD	20	26	60.1	12	M12X1,25	M5	12.0	6	63	*6*
312PHD	19	39	71.6	12	M10X1,25	M4	24.0	6	120	*5*
344PHD	24.5	47.5	85.6	12	M10X1,25	M4	12.0	6	120	*5*
306PHD	18	33.5	65.6	12	M10X1,25	M4	12.0	6	120	*5*
308PHD	18	33.5	65.1	12	M10X1,25	M4	24.0	6	120	*5*
346PHD	22	52	87.6	12	M10X1,25	M4	24.0	6	120	*5*
642PHD	36	112	170	12	M10X1,25	M4	11.0	6	93	*5*
660PHD	36	102.5	160	10	M10X1,25	M4	11.0	6	93	*5*
318PHD	23	53	89.6	12	M10X1,25	M4	21.0	6	90	*5*
425PHD	32	43	89.1	12	M10X1,25	M4	12.0	6	90	*5*
478PHD	24	58.5	96.6	12	M10X1,25	M4	11.0	6	120	*5*
406PHD	28	53	95.1	12	M10X1,25	M4	24.0	6	90	*5*
411PHD	28	53	95.1	12	M10X1,25	M4	12.0	6	90	*5*
410PHD	32	43	89.1	12	M10X1,25	M4	24.0	6	90	*5*
317PHD	22.5	45	81.6	12	M10X1,25	M4	12.0	6	120	*5*
465PHD	16	44	74.1	12	M10X1,25	M4	11.0	6	120	*5*
320PHD	22.5	45	82.1	12	M10X1,25	M4	24.0	6	120	*5*

■ = not yet in production

Our Ref.	DIMENSIONS					TECHNICAL DATA				Tube
	L1	L2	LT			d	V	T ± 1"	a°	Diam.
Twin Coil										
323PHD	22.5	41	77.1	12	M10X1,25	M4	24.0	17	120	*5*
398PHD	16	39	68.6	12	M10X1,25	M4	12.0	12	120	*5*
313PHD	19	50	83.1	12	M10X1,25	M4	11.0	6	120	*5*
315PHD	19	62.5	95.6	12	M10X1,25	M4	11.0	6	120	*5*
643PHD	20.5	143	180	12	M10X1,25	M4	11.0	5	123	*4*
644PHD	16	52	82	12	M10X1,25	M4	11.0	6	123	*5*
645PHD	22.5	175	212	12	M10X1,25	M4	11.0	5	123	*5*
665PHD	9	108	134	12	M10X1,25	M4	11.0	5	123	*5*
666PHD	24	103	145	12	M10X1,25	M4	11.0	6	123	*5*
646PHD	22.5	58.5	103	12	M10X1,25	M4	11.0	6	123	*5*
668PHD	30	71	121	12	M10X1,25	M4	11.0	6	123	*5*
348PHD	20	25.3	59.4	12	M12X1,25	M5	24.0	6	63	*6*
600PHD	20	27	61.1	12	M12X1,25	M5	11.0	6	63	*6*
601PHD	18	29	61.1	12	M12X1,25	M5	10.0	6	63	*6*
385PHD	25	27	66.1	12	M12X1,25	M4	11.0	5	63	*5*
602PHD	24	27	65.1	12	M12X1,25	M5	11.0	6	63	*6*
603PHD	20	32	66.1	12	M12X1,25	M4	11.0	5	63	*5*
384PHD	25	32	71.1	12	M12X1,25	M4	11.0	5	63	*5*
604PHD	20.5	32	66.6	12	M12X1,25	M5	11.0	6	63	*6*
374PHD	24.5	32	70.6	12	M12X1,25	M5	11.0	6	63	*6*
365PHD	22	32	68.1	12	M12X1,25	M5	11.5	6	63	*6*
366PHD	24.5	32	70.6	12	M12X1,25	M5	11.0	6	63	*6*
607PHD	20	25.3	75.6	12	M12X1,25	4	11.0	6	63	*6*
608PHD	28	32	74.1	12	M12X1,25	M5	11.0	6	63	*6*
615PHD	24,5	38	76.1	10	M10X1	M4	11.0	5	63	*5*
627PHD	29	26	81	12	M12X1,25	4	12.0	6	63	*6*
628PHD	23	43	83.5	10	M10X1	4	11.0	5	63	*5*
337PHD	24.5	42	80.1	10	M10X1	M4	11.0	5	63	*5*
609PHD	24	46	83.6	10	M10X1	M4	11.0	5	63	*5*
610PHD	27	37	87.3	12	M12X1,25	4	11.5	5	63	*5*
403PHD	28.5	46	88.1	10	M10X1	M4	11.0	5	63	*5*
623PHD	29	46	88.6	10	M10X1	M4	11.0	5	63	*5*
624PHD	20	30	75.3	12	M12X1,25	4	11.0	6	63	*6*
611PHD	24	46	92	10	M10X1	4	11.0	5	63	*5*
614PHD	24.5	53	91.1	10	M10X1	M4	11.0	5	63	*5*
612PHD	24	57	94.6	10	M10X1	M4	11.0	5	63	*5*
618PHD	24.5	55	93.1	10	M10X1	4	10.0	5	90	*5*
405PHD	29	46	97	10	M10X1	4	11.0	5	63	*5*
647PHD	29	46	97	10	M10X1	4	11.0	5	63	*5*
629PHD	24	53	99	10	M10X1	4	11.0	5	63	*5*
648PHD	29	53	112	10	M10X1	M4	11.0	5	63	*5*
630PHD	24	57	103	10	M10X1	4	11.0	5	63	*5*
616PHD	32	46	105.8	10	M10X1	4	11.0	5	63	*5*
617PHD	27	63.5	105	10	M10X1	M4	11.0	5	63	*5*
631PHD	24	61	106.5	10	M10X1	4	11.0	5	63	*5*
432PHD	27.5	67.5	116	12	M12X1,25	4	11.5	6	63	*6*
818PHD	27.5	75	118	8		M4			123	*4*
431PHD	27.5	67.5	120	12	M12X1,25	5	11.5	6	63	*6*
620PHD	34	70	117.6	10	M10X1	M4	11.0	5	90	*5*
632PHD	39	58	122	10	M10X1	4	11,5	5	63	*5*
626PHD	34.5	70	126.2	10	M10X1	4	12.0	5	63	*5*
397PHD	26.5	83	123.1	10	M10X1	M4	11.5	5	90	*5*
613PHD	28	83	124.6	10	M10X1	M4	11.0	5	63	*5*
633PHD	26.5	83	123.1	10	M10X1	M4	23.0	5	90	*5*
621PHD	30	83	126.6	10	M10X1	M4	11.5	5	63	*5*
625PHD	27.5	80	128	10	M10X1	4	11.5	5	63	*5*
830PHD	31	77	128	10	M10X1	4	11.0	5	93	*5*
680PHD	27.5	84	131	10	M10X1	/	11.5	5	93	*5*
622PHD	28	77	132.8	10	M10X1	4	11.0	5	63	*5*

■ = not yet in production

Our Ref.	DIMENSIONS					TECHNICAL DATA				Tube
	L1	L2	LT			d	V	T ± 1"	a°	Diam.
Twin Coil										
634PHD	29	77	134	10	M10X1	4	11.0	5	63	*5*
649PHD	29	77	134	10	M10X1	4	11.0	5	63	*5*
638PHD	24	92.5	144	12	M10X1,25	4	11.0	5	123	*5*
635PHD	35	96	147	10	M10X1	M4	11.5	5	95	*5*
639PHD	26	101	149	8	M10X1	4	11.5	5	93	*5*
640PHD	29	105	150	10	M10X1	4	11.0	5	63	*5*
851PHD	29.5	100	152	9		/				*4*
852PHD	31	100	152				11.0			*3.5*
853PHD	39.5	90	151.5	8	M8X1	/				*4*
616PHD	32	46	105.8	10	M10X1	4	5.0	5	63	*5*
819PHD	28	70	119	8	M8X1	/	11.0			*4*
826PHD	24.5	80	126.5	8	M8X1	4	11.0	/		*4*
835PHD	29	77	134	10	M10X1	4	5.0	5	63	*5*
820PHD	27	72	120	12	M12X1,25	2	11.0			*6*
821PHD	24	70	122	12	M12X1,25	2	11.0	6	63	*6*
413PHD	27.5	27.5	76.3	9.5	M10X1	/	12.0	7	90	*5*
401PHD	27.5	33.5	75.1	9.5	M10X1	M4	11.0	17	90	*5*
418PHD	27.5	33.5	79.8	9.5	M10X1	/	11.0	7	90	*5*
453PHD	27.5	33.5	82.3	9.5	M10X1	/	6.0	7	90	*5*
416PHD	27.5	33.5	81.5	9.5	M10X1	3.8	5.0	7	90	*5*
652PHD	29	25.3	67.9	12	M12X1,25	M5	11.0	7	63	*6*
Single Coil										
438	29.5	34.2	100	19	M18X1,5	7	12.0	22	/	*6*
443	36.1	34.2	106.6	19	M18X1,5	7	12.0	22	/	*6*
439	29.5	34.2	100	19	M18X1,5	7	24.0	22	/	*6*
444	36.1	34.2	106.6	19	M18X1,5	7	24.0	22	/	*6*
447	38	34.5	86.1	21	M18X1,5	M5	9.5	17	60	*6*
435	30	53.5	97.1	14	M14X2	M5	9.5	17	60	*6*
392	24.5	42	80.1	17	M14X1,25	M5	9.5	17	60	*6*
434	28	34	75.6	14	M14X1,25	M5	11.0	17	63	*6*
433	28	34	75.6	17	M14X1,25	M5	8.0	17	60	*6*
391	25	47.5	87.5	9.5	3/8" 24s	/	12.0	17	90	*5*
480	26	81	127.8	9.5	3/8" 24s	/	11.0	8	63	*5*
441	28	44.5	86.1	21	M18X1,5	M5	9.5	18	60	*6*
395	21	37.5	72.1	21	M18X1,5	M5	18.0	18	60	*6*
446	38	34.5	86.1	21	M18X1,5	M5	10.5	18	60	*6*
396	21	37.5	72.1	21	M18X1,5	M5	9.5	18	60	*6*
440	28	44.5	86.1	21	M18X1,5	M5	10.5	18	60	*6*
448	34	34.5	82.1	21	M18X1,5	M5	9.5	17	60	*6*
449	38	34.5	86.1	21	M18X1,5	M5	9.5	20	60	*6*
445	38	34.5	86.1	21	M18X1,5	M5	22.5	22	60	*6*
450	27.4	32	87.4	21	M18X1,5	M5	0.9	17	60	/
486	27.4	32	87.4	21	M18X1,5	M5	0.9	17	60	/
452	19	54	101	17	M14X1,25	M5	1.7	17	60	/
880	49		92	24	M18X1,5	M5	4.0			
881	43.5		64	19	M14X1,25	4	12.0			
882	42.5		62.5	19	M14X1,25	M4	12.0			
883	43.5		64	19	M14X1,25	4	24.0			
884	55		105	26	M22X1,5	M5	12.0			
885	65		89	26	UNF 7/8-14	M5	11.0			
886	65		89	26	M22X1,5	M5	11.0			
887	53		85.5	24	G 1/2		12.0			
442	29	35	77.6	21	M18X1,5	M5	9.0	8	63	*6*
427	28	48	97	17	M10X1	M4	12.0	17	90	*4*
331	24	48.5	86.1	12	M10X1,25	M4	10.5	17	120	*5*
321	24	48.5	86.1	12	M10X1,25	M4	9.0	17	120	*5*

■ =not yet in production

Technical List

Our Ref.	DIMENSIONS					TECHNICAL DATA				*Tube*
	L1	L2	LT			d	V	T ± 1"	a°	*Diam.*
Single Coil										
319	24	48.5	86.1	12	M10X1,25	M4	5.0	5	120	*5*
118	24	48.5	86.1	12	M10X1,25	M4	9.5	5	120	*5*
120	24	48.5	86.1	12	M10X1,25	M4	9.5	7	120	*5*
302	18	48.5	80.1	12	M10X1,25	M4	5.0	5	120	*5*
386	25	96	134.6	12	M12X1,25	M4	11.0	11	120	*5*
911	24	48.5	86.1	12	M10X1,25	M4	5.0	5	120	*5*
316	18	48.5	80.1	12	M10X1,25	M4	11.0	7	120	*5*
339	24	48.5	86.1	12	M10X1,25	M4	11.0	7	120	*5*
457	18	53	84.6	12	M10X1,25	M4	11.0	7	120	*5*
325	22.5	50	85.1	12	M10X1,25	M4	22.5	7	120	*5*
328	22.5	45	81.1	12	M10X1,25	M4	10.5	7	90	*5*
340	22.5	45	81.1	12	M10X1,25	M4	10.5	7	90	*5*
889	16	39	68.6	12	M10X1,25	M4	10.5	12	120	*5*
458	22	38	73.6	14	M16X1,5	M4	9.0	17	120	*5*
357	20.5	42	76.1	12	M12X1,25	M4	10.5	17	/	*5*
358	20.5	42	76.1	12	M12X1,25	M4	22.5	17	/	*5*
475	18.5	47.5	79.6	12	M10X1,25	M4	11.0	5	120	*5*
912	23	52.5	89.1	12	M10X1,25	M4	21.0	17	120	*5*
479	22.5	45	81.1	12	M10X1,25	M4	11.0	7	120	*5*
360	20.5	42	76.1	12	M12X1,25	M4	11.0	17	/	*5*
476	18	45	76.6	12	M10X1,25	M4	11.0	5	120	*5*
459	22	52	87.6	12	M10X1,25	M4	6.2	6	120	*5*
913	22	52	87.6	12	M10X1,25	M4	12.0	6	120	*5*
335	22	52	87.6	12	M10X1,25	M4	12.0	17	120	*5*
341	22	52	87.6	12	M10X1,25	M4	6.0	6	120	*5*
305	18.5	47.5	79.6	12	M10X1,25	M4	11.0	5	120	*5*
382	21	55	89.6	14	M12X1,25	M4	9.5	17	120	*5*
304	18	33.5	65.1	12	M10X1,25	M4	10.5	17	120	*5*
307	18	33.5	65.1	12	M10X1,25	M4	11.0	17	120	*5*
300	18	33.5	65.1	12	M10X1,25	M4	23.0	5	120	*5*
168	21	55	89.6	14	M12X1,25	M4	10.0	7	120	*5*
324	24.5	47.5	85.6	12	M10X1	M4	6.5	6	120	*5*
309	18	33.5	65.1	12	M10X1,25	M4	9.5	17	120	*5*
343	24.5	47.5	85.6	12	M10X1	M4	8.5	7	120	*5*
310	18	33.5	65.1	12	M10X1,25	M4	9.5	17	120	*5*
311	18	33.5	65.1	12	M10X1,25	M4	10.5	7	120	*5*
303	18	33.5	65.1	12	M10X1,25	M4	11.0	17	120	*5*
350	20	26	59.6	12	M12X1,25	M5	8.5	7	63	*5*
353	20	26	59.6	12	M12X1,25	M5	11.0	17	63	*5*
344	24.5	47.5	85.6	12	M10X1,25	M4	8.5	7	120	*5*
349	20	26	59.6	12	M12X1,25	M5	6.5	6	63	*5*
327	24.5	47.5	85.6	12	M10X1,25	M4	6.5	7	120	*5*
306	18	33.5	65.1	12	M10X1,25	M4	11.0	7	120	*5*
345	22	52	87.6	12	M10X1,25	M4	11.0	7	120	*5*
330	21.5	47.5	82.6	12	M10X1,25	M4	6.5	5	120	*5*
332	21.5	47.5	90	12	M10X1,25	M4	6.5	5	120	*5*
437	33.5	39	86.1	17	M14X1,25	M4	8.0	18	120	*5*
402	28	53	94.6	12	M10X1,25	M4	8.0	7	90	*5*
462	28	53	94.6	12	M10X1,25	M4	8.5	7	90	*5*
420	32	43	88.6	12	M10X1,25	M4	11.0	7	90	*5*
477	28	53	94.6	12	M10X1,25	M4	11.0	7	90	*5*
463	28	53	94.6	12	M10X1,25	M4	8.5	7	90	*5*
211	28	53	94.6	12	M10X1,25	M4	11.0	7	90	*5*
425	32	43	88.6	12	M10X1,25	M4	11.0	7	90	*5*
404	28	53	94.6	12	M10X1,25	M4	7.0	7	90	*5*
478	24	58.5	96.6	12	M10X1,25	M4	11.0	6	120	*5*
411	28	53	94.6	12	M10X1,25	M4	10.5	6	90	*5*
419	32	43	88.6	12	M10X1,25	M4	7.0	7	90	*5*
409	28	53	94.6	12	M10X1,25	M4	6.0	6	90	*5*

■ =not yet in production

Technical List

Our Ref.	DIMENSIONS					TECHNICAL DATA				Tube
	L1	L2	LT			d	V	T ± 1"	a°	Diam.
Single Coil										
424	32	43	88.6	12	M10X1,25	M4	11.0	7	90	*5*
426	32	43	88.6	12	M10X1,25	M4	11.0	7	90	*5*
421	32	43	88.6	12	M10X1,25	M4	6.0	5	90	*5*
317	22.5	45	81.1	12	M10X1,25	M4	12.0	7	120	*5*
465	16	44	73.6	12	M10X1,25	M4	11.0	7	120	*5*
893	22.5	45	81.1	12	M10X1,25	M4	11.0	7	120	*5*
322	22.5	45	81.1	12	M10X1,25	M4	10.5	7	120	*5*
894	22.5	45	81.1	12	M10X1,25	M4	11.0	7	120	*5*
347	22.5	45	81.1	12	M10X1,25	M4	12.0	7	120	*5*
895	22.5	45	81.1	12	M10X1,25	M4	10,5	7	120	*5*
422	32	41	86.6	12	M10X1,25	M4	8.0	7	120	*5*
408	26	50.5	90.1	12	M10X1,25	M4	8.0	7	90	*5*
412	28	53	94.6	12	M10X1,25	M4	7.0	7	90	*5*
466	28	53	94.6	12	M10X1,25	M4	11.0	7	90	*5*
467	28	53	94.6	12	M10X1,25	M4	11.0	7	120	*5*
909	25	96	134.6	12	M12X1,25	M4	10.5	11	120	*5*
896	28	53	94.6	12	M10X1,25	M4	8.5	7	90	*5*
329	24.5	55	93.1	12	M10X1,25	M4	22.5	14	120	*5*
468	28	53	94.6	12	M10X1,25	M4	8.5	7	90	*5*
388	22.5	83.5	116.3	9.5	3/8" 24s	6.5	24.0	25	120	*5*
389	23	52	86.5	8	3/8" 24s	2.3	24.0	22	120	*5*
390	22.5	83.5	116.3	9.5	3/8" 24s	6.5	12.0	25	120	*5*
469	23	52	86.5	8	3/8" 24s	2.3	12.0	22	120	*5*
280	16	39	68.6	12	M10X1,25	M4	10.5	12	120	*5*
470	18	33.5	65.1	12	M10X1,25	M4	10.5	7	120	*5*
471	18	33.5	65.1	12	M10X1,25	M4	10.5	12	120	*5*
902	22.5	45	81.1	12	M10X1,25	M4	10.5	7	120	*5*
472	18	33.5	65.1	12	M12X1,25	M4	11.0	17	120	*5*
903	22.5	45	81.1	12	M10X1,25	M4	12.0	7	120	*5*
473	24.5	33.5	71.6	12	M10X1,25	M4	11.0	6	120	*5*
906	18	33.5	65.1	12	M10X1,25	M4	10.0	7	120	*5*
910	16	39	68.6	12	M10X1,25	M4	10.5	12	120	*5*
313	19	50	82.6	12	M10X1,25	M4	11.0	7	120	*5*
315PH	19	62.5	95.1	12	M10X1,25	M4	11.0	7	120	*5*
700	18	33.5	65.1	12	M10X1,25	M4	10.0	7	120	*5*
474	29	41	84.1	10	M10X1	M4	11.5	7	63	*5*
355	20	25.3	58.9	12	M12X1,25	M5	11.0	17	63	*6*
351	20.5	32	66.1	12	M12X1,25	M5	11.0	17	63	*6*
372	24.5	32	70.1	12	M12X1,25	M5	11.0	17	63	*6*
373	24.5	32	70.1	12	M12X1,25	M5	18.0	17	63	*6*
428	24.5	32	70.1	12	M12X1,25	M5	11.0	17	63	*6*
429	28	32	73.6	12	M12X1,25	M5	11.0	17	63	*6*
691	28	32	73.6	12	M12X1,25	M5	11.0	17	63	*6*
692	24.5	32	70.1	12	M12X1,25	M5	11.0	11	63	*6*
376	24.5	32	70.1	12	M12X1,25	M5	11.0	11	63	*6*
430	28	32	73.6	12	M12X1,25	M5	11.0	11	63	*6*
354	20	25.3	58.9	12	M12X1,25	M5	11.0	8	63	*6*
383	20	25.3	58.9	12	M12X1,25	M5	11.0	8	63	*6*
352	20	27	60.6	12	M12X1,25	M5	11.0	8	63	*6*
367	24	27	64.6	12	M12X1,25	M5	11.0	8	63	*6*
381	20	32	65.6	12	M12X1,25	M4	11.0	8	63	*6*
378	25	32	70.6	12	M12X1,25	M4	11.5	8	63	*6*
361	20.5	32	66.1	12	M12X1,25	M5	11.0	8	63	*6*
393	20.5	32	66.1	12	M12X1,25	M5	11.0	8	63	*6*
365	20.5	32	66.1	12	M12X1,25	M5	11.0	8	63	*6*
369	24.5	32	70.1	12	M12X1,25	M5	11.0	8	63	*6*
371	24.5	32	70.1	12	M12X1,25	M5	11.5	8	63	*6*
359	24.5	32	70.1	12	M12X1,25	M5	11.0	8	63	*6*
394	28	32	73.6	12	M12X1,25	M5	11.0	8	63	*6*

■ =not yet in production

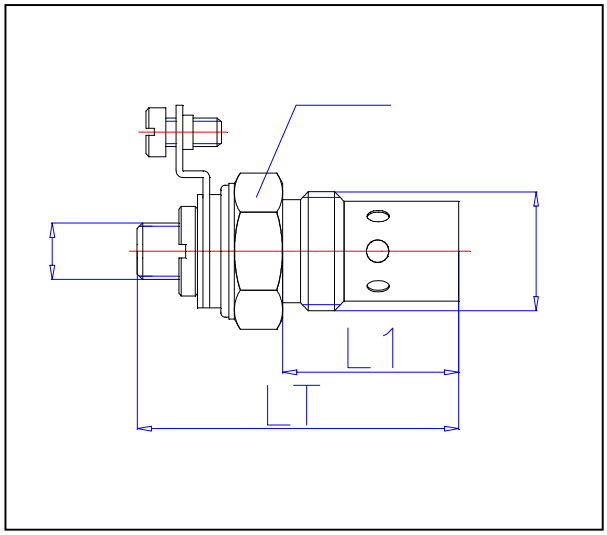
Technical List

Our Ref.	DIMENSIONS					TECHNICAL DATA				*Tube*
	L1	L2	LT			d	V	T ± 1"	a°	*Diam.*
Single Coil										
337PH	24.5	42	80.6	10	M10X1	M4	11.0	8	63	*6*
397PH	26.5	83	123.6	10	M10X1	M4	11.5	8	90	*6*
348PH	20	25.3	58.9	12	M12X1,25	M5	11.0	7	63	*6*
600PH	20	27	60.6	12	M12X1,25	M5	11.0	7	63	*6*
601PH	18	29	60.6	12	M12X1,25	M5	10.0	7	63	*6*
385PH	25	27	65.6	12	M12X1,25	M4	11.0	7	63	*6*
602PH	24	27	64.6	12	M12X1,25	M5	11.0	7	63	*6*
377	24	27	64.6	12	M12X1,25	M5	11.0	7	63	*6*
603PH	20	32	65.6	12	M12X1,25	M4	11.0	7	63	*5*
384PH	25	32	70.6	12	M12X1,25	M4	11.5	7	63	*5*
604PH	20.5	32	66.1	12	M12X1,25	M5	11.0	7	63	*6*
374PH	24.5	32	70.1	12	M12X1,25	M5	11.0	7	63	*6*
365PH	22	32	67.6	12	M12X1,25	M5	11.5	7	63	*6*
380PH	20.5	32	66.1	12	M12X1,25	M5	11.0	7	63	*6*
605PH	24.5	32	70.1	12	M12X1,25	M5	11.5	7	63	*6*
606PH	24.5	32	70.1	12	M12X1,25	M5	12.5	7	63	*6*
366PH	24.5	32	70.1	12	M12X1,25	M5	11.0	7	63	*6*
368PH	24.5	32	70.1	12	M12X1,25	M5	11.0	7	63	*6*
607PH	20	25.3	75.6	12	M12X1,25	4	11.0	7	63	*6*
363PH	24.5	32	70.1	12	M12X1,25	M5	11.0	7	63	*6*
608PH	28	32	73.6	12	M12X1,25	M5	11.0	7	63	*6*
615PH	24.5	38	76.6	10	M10X1	M5	11.0	7	63	*6*
609PH	24	46	84.1	10	M10X1	M4	11.0	7	63	*5*
610PH	27	37	86.3	12	M12X1,25	4	11.5	7	63	*5*
403PH	28.5	46	88.6	10	M10X1	M4	11.0	7	63	*5*
623PH	29	46	89.1	10	M10X1	M4	11.0	7	63	*5*
624PH	20	30	75.3	12	M12X1,25	4	11.0	7	63	*6*
611PH	24	46	92	10	M10X1	4	11.0	7	63	*5*
614PH	24.5	53	91.6	10	M10X1	M4	11.0	7	63	*5*
612PH	24	57	95.1	10	M10X1	M4	11.0	7	63	*5*
405PH	29	46	97	10	M10X1	4	11.0	7	63	*5*
617PH	27	63.5	104.6	10	M10X1	M4	11.0	7	63	*5*
432PH	27.5	67.5	116	12	M12X1,25	4	11.5	6	63	*6*
431PH	27.5	67.5	120	12	M12X1,25	5	11.5	6	63	*6*
620PH	34	70	117.6	10	M10X1	M4	11.0	7	90	*5*
613PH	28	83	124.6	10	M10X1	M4	11.0	7	63	*5*
413	27.5	27.5	76.3	9.5	M10X1	/	6.0	7	90	*5*
401	27.5	33.5	75.1	9.5	M10X1	M4	11.0	17	90	*5*
418	27.5	33.5	79.8	9.5	M10X1	/	11.0	7	90	*5*
453	27.5	33.5	82.3	9.5	M10X1	/	6.0	7	90	*5*
454	27.5	33.5	82.3	9.5	M10X1	/	11.0	7	90	*5*
416	27.5	33.5	81.5	9.5	M10X1	3.8	5.0	7	90	*5*
701	15	40.5	69.1	16	5/8" 18s	M4	11.0	20	120	*6*
362	21	32	66.6	12	M12X1,25	M5	11.0	8	63	*6*

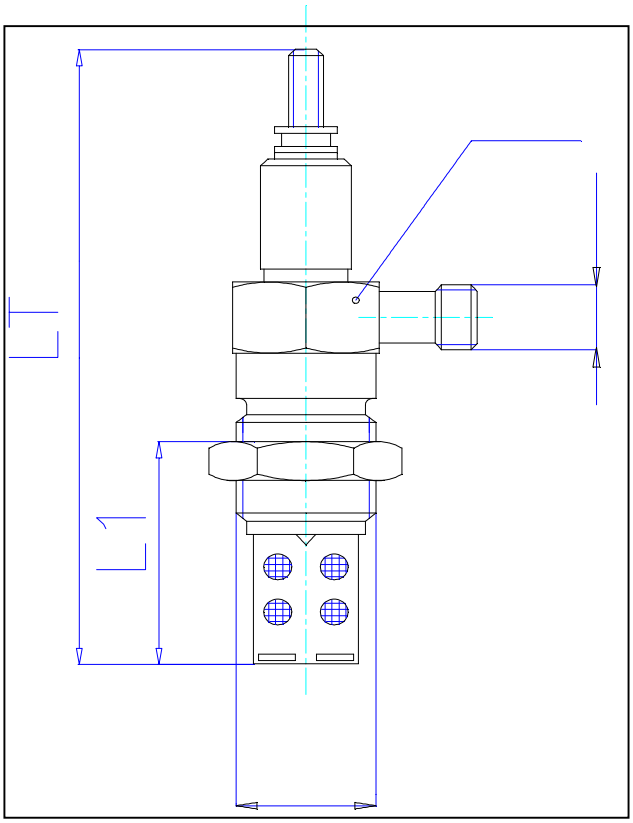
■ **=not yet in production**

Technical List

OUR REF.	L1	LT				V	Cm3/min			VAL. ROTA
1505TS	32	64.5	26	M22 x 1,5	3/8" 24UNF	8	5		☺	
1506TS	32	58	24	1/2" Gas	3/8" 24UNF	12	2 - 3,2		☺	
1503TS	32	58	24	1/2" Gas	3/8" 24UNF	12	3,5 - 5		☺	
1522TS	32	58	24	1/2 Bsf	3/8" 24UNF	12	3,5 - 5		☺	
2530TS	32	58	24	1/2" Gas	3/8" 24UNF	24	11 - 15		☺	
1502TS	32	58	24	1/2" Gas	3/8" 24UNF	24	7 - 12		☺	
1501TS	32	58	24	7/8" - 14	3/8" 24UNF	12	3,5 - 5	☺		
1524TS	32	58	24	1/2" Gas	3/8" 24UNF	12	7 - 12	☺		
1504TS	32	58	24	7/8" - 14	3/8" 24UNF	12	3,5 - 5		☺	
2570TS	32	58	24	7/8" - 14	3/8" 24UNF	24	7 - 12		☺	
1518TS	32	58	24	7/8" - 14	3/8" 24UNF	12	2 - 3,2		☺	
1519TS	32	58	24	M22 x 1,5	3/8" 24UNF	12	2 - 3,2		☺	
1507TS	32	58	24	M22 x 1,5	M10 x 1	12	3,5 - 5		☺	
1507TS	32	58	24	7/8" - 14	3/8" 24UNF	12	7 - 10		☺	
1521TS	32	58	24	7/8" - 14	3/8" 24UNF	24	7 - 12	☺		
1520TS	32	58	24	M22 x 1,5	M10 x 1	12	3,5 - 5	☺		
1530TF	41	95	24	M20 x 1,5	M10 x 1	19	8,3			250
1540TF	41	95	24	M20 x 1,5	M10 x 1	9.5	13,7			320
1550TF	41	95	24	M20 x 1,5	M10 x 1	19	9,6			350
1560TF	41	95	24	M20 x 1,5	M10 x 1	19	13,7			320
1570TF	41	95	24	M20 x 1,5	M10 x 1	9.5	15,7			360
1580TF	48	95	24	M20 x 1,5	M10 x 1	11	9,6	☺		280
1590TF	46	96	24	M20 x 1,5		24	9,4			



TA

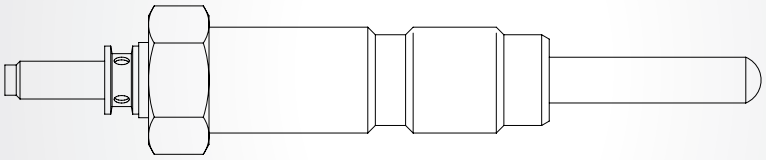


TF

490

11,0 V

NEW



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
490	28	53	100	17	M14X1,25	M5	11,0	7	60	6

Suitable to:
BERU
0 100 221 203
129 MJ
GV 129

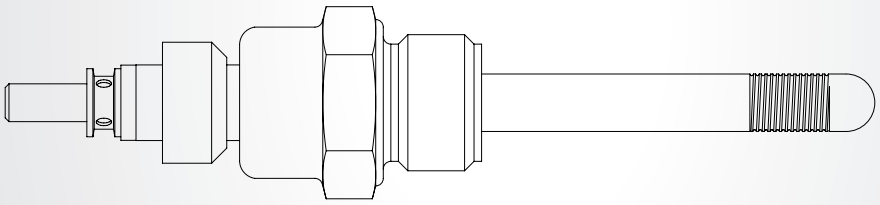
Suitable to:
FENDT
F 238 900 020 130
MWM
6 0579 410 0007

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
BAUTZ							
ENGINE	T 600			MWM-D308-3	3	12	
	COMMODORE			MWM-D308-4 /KD12Z	4	12	
FENDT							
ENGINE	F231GT			MWM-D 208-3	3	12	
ENGINE	FW139M, 228M, 138M			MWM-D 208-3	3	12	
ENGINE	FWA138M			MWM-D 208-3	3	12	
ENGINE	FL120M, 131M			MWM-D 325-2	2	12	
ENGINE	FW150/11, FWA150/7			MWM-D 208-4	4	12	
ENGINE	FW180M, FWA180M			MWM-D 225-6	6	12	
ENGINE	FW238M, FWA238M, FW258M, FWA258M			MWM-D 225-4	4	12	
ENGINE	FW165M, FWA165M			MWM-D 225-4	4	12	
ENGINE	FARMER 2DE, 2E, 2N, 2S			MWM-D 208-3	3	12	
ENGINE	FARMER3S			MWM-D 208-4	4	12	04.66>12.67
ENGINE	FARMER5S			MWM-D 225-4	4	12	
ENGINE	FAVORIT3			MWM-KD 210,5 V	4	12	01.64>12.65
ENGINE	FAVORIT4			MWM-D 208-6	6	12	01.67>12.67
LANZ							
ENGINE	D208				2	12	
MWM							
ENGINE	D208-2, D225-2, D308-2, D325-2				2	12	
ENGINE	D208-3, D225-3, D308-3, D325-3				3	12	
ENGINE	D208-4, D225-4, D308-4, D325-4, TD208-4				4	12	
ENGINE	D208-6, D225-6, D308-6, D325-6, TD208-6				6	12	
RENAULT							
R 30	R 7050 D				3	12	
SUPER 6					3	12	
SCHMIEDAG AG							
ENGINE	RAUPE K 300 H			600/63	2	12	

491

24,0 V

NEW

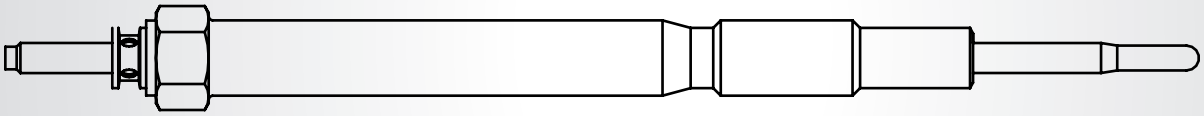


ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
491	52	32	115	22	M18X1,5	M5	24,0	9	/	7,6

Suitable to:
BERU
0 102 334 302
MERCEDES
001 159 34 01
N.S.N.
2920-12-355-4309

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
MERCEDS							
	MTU		880	880	8	24	

492 PHD 11,0 V



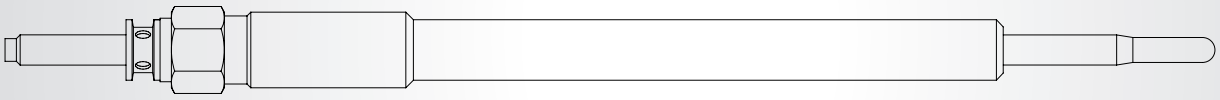
ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
492 PHD	30	108,5	158,5	12	M10X1,25	M4	11,0	6	123	4

Suitable to:
HKT
PZ 710
NGK
Y-526J
MAZDA
WE01-18-601

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
FORD							
RANGER	TU-TDCI	3.0	115	8566AMI/AXH	4	12	05/05>
	TU-TDCI 4X4	3.0	115	8566AMI/AXH	4	12	05/05>
MAZDA							
BT-50	2.5 MRZ-CD 4X4	2.5	105	WLAA	4	12	12/06>
	3,0 CDVi	3,0	115	WEAT	4	12	12/06>

661 PHD 11,0 V

NEW



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
661 PHD	28	110	160	10	M10X1,25	M4	11,0	6	93	4

Suitable to:
BERU
0 100 226 538
GN 108
DELPHI
HDS429
HKT
CP 23
PT 500

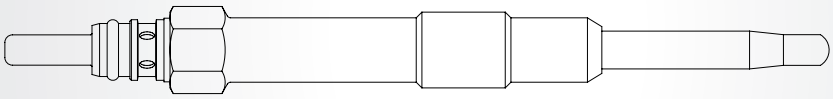
Suitable to:
NGK
DP65
Y-1012J
TOYOTA
19850-0R010
19850-0R020
19850-26010

Suitable to:
TOYOTA
19850-26020
19850-26021
19850-26022

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
LEXUS							
IS 220 d	IS 220 d Tre Volumi	2.2	130	2AD-FHV	4	12	10/05>
TOYOTA							
AURIS	2,2 D	2.2	130	2AD-FHV	4	12	03/07>
AVENSIS	2,2 D-CAT (T25)	2.2	130	2AD-FHV	4	12	07/05>
	2,2 D-CAT (T25) S.W.	2.2	130	2AD-FHV	4	12	07/05>
	2,2 D (T27) S.W.	2.2	130	2AD-FHV	4	12	02/09>
	2,2 D-CAT (T25) 3 Vol.	2.2	130	2AD-FHV	4	12	07/05>
COROLLA	2.2 D-4D VERSO	2.2	130	2AD-FHV	4	12	10.05>
	2.2 D-4D VERSO	2.2	136	2AD-FTV	4	12	10.05>
RAV-4 III	2.2 D-4D	2.2	100		4	12	03.06>
	2.2 D-CAT	2.2	130		4	12	03.06>

130 PHD 11,0 V

NEW



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
130 PHD	30	57	109	10	M10X1	4	11,0	5	63	5

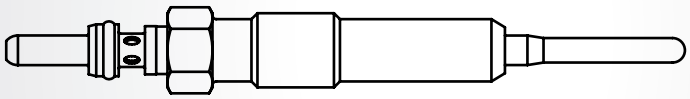
Suitable to:
ASHIKA
01-08-803
BERU
0 100 226 639
GN097
BOSCH
0 250 202 132

Suitable to:
CHAMPION
CH 269
DELPHI
HDS418
MARELLI
UC43A

Suitable to:
FIAT
55200817
OPEL / G.M.
93 190 433

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
ALFA ROMEO							
ALFA 147	1.9 JTDM 8V	1.9	88	937 A3.000	4	12	07/05>
	1.9 JTDM 16V (937)	1.9	85	939 A7.000	4	12	10/04>03/10
ALFA 159	1,9 JTDM 8V	1.9	85	937 A7.000 - 939 A7.000	4	12	09/05>
	1,9 JTDM 8V	1.9	88	939 A1.000	4	12	09/05>
FIAT							
BRAVA / BRAVO	1.9 D Multijet	1.9	88	192 A8.000	4	12	04/07>
BRAVO II	1.9 D Multijet (198)	1.9	66		4	12	04/07>12/08
CROMA	1.9 D Multijet	1.9	85	939 A7.000	4	12	06/05>
	1.9 D Multijet	1.9	88	939 A1.000	4	12	06/05>
DOBLO	1,9 D Multijet	1.9	88	186 A9.000	4	12	10/05>
MULTIPLA	1,9 JTD	1.9	88	186 A9.000	4	12	04/02>
PUNTO/PUNTO II	1,9 JTD	1.9	63	188 A7.000	4	12	10/01>
	1,9 JTD	1.9	74	188 B2.000	4	12	06/03>
GRANDE PUNTO	1,9 D Multijet	1.9	88	939 A1.000	4	12	10/05>
	1,9 D Multijet	1.9	96	199 A5.000	4	12	10/05>
STILO	1,9 D MULTIJET	1.9	88	192 A8.000	4	12	09/05>
	1,9 JTD	1.9	66		4	12	09/04>
	1,9 JTD	1.9	85	192 A1.000 - 937 A7.000	4	12	10/01>
SUZUKI							
SX4 (GY)	1.9 DDiS	1.9	88	D19AA	4	12	06/06>
SX4 (GY)	1.9 DDiS 4X4	1.9	88	D19AA	4	12	06/06>
VAUXHALL							
ASTRA	1,9 CDTI MK V	1.9	74	Z 19 DTL	4	12	08/05>

131 PHD 4,4 V



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
131 PHD	24	45	90,5	10	M10X1	4	4,4	3	63	4

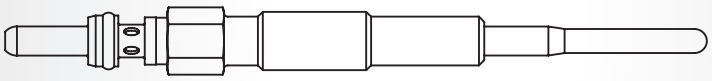
Suitable to:
BERU
GE 111
0 100 266 026
0 100 266 033
0 100 266 053
BOSCH
GLP222
0 250 403 013

Suitable to:
DELPHI
HDS447
MARELLI
UY16A
DACIA
82 00 794 920
RENAULT
82 00 794 920

Suitable to:
SUZUKI
18550-80KA0-000

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
RENAULT							
GRAND SCENIC III	1,9 dCi	1,9	96	F9Q 870	4	12	02/09->
MEGANE III	1.9 dCi (BZ0_)	1.9	96	F9Q 872 (4,4 Volt)	4	12	11/08>
	1.9 dCi Tre volumi	1.9	96	F9Q 872 (4,4 Volt)	4	12	06/09>
	1.9 dCi (KZ0N)	1.9	96	F9Q 870 (4,4 Volt)	4	12	05/09>
	1.9 dCi (DZ0_)	1.9	96	F9Q 870 (4,4 Volt)	4	12	11/08>
SCENIC III	1.9 dCi (JZO/1_)	1,9	96	F9Q 870	4	12	02/09->
SUZUKI							
GRAND VITARA II	1,9 DDiS (JT)	1,9	95	F9QB (4,4Volt)	4	12	10/05>

106 PHD 4,4 V



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
106 PHD	29,5	42	93,5	8	M8X1	4	4,4	3	93	4

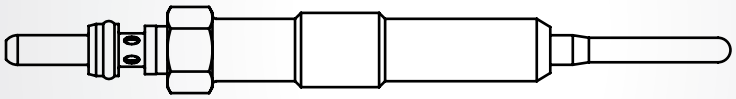
Suitable to:
ASHIKA
01-0W-W07
BOSCH
GLP179
0 250 403 003
0 250 403 010
HKT
01-0W-W07
CE-W07

Suitable to:
CHEVROLET
96 440 144
DAEWOO
96 440 144
MARELLI
UY11A
OPEL GM
96 440 144

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
CHEVROLET							
CAPTIVA	2,0 CDRi	2,0	110	Z20S (4,4 Volt)	4	12	10/06>
	2,0 CDRi 4WD	2,0	110	Z20S (4,4 Volt)	4	12	10/06>
CRUZE	2.0 CDI (J300)	2.0	110	Z 20 S1 (4,4 Volt)	4	12	05/09>
EPICA	2,0 CDRi	2,0	110	Z20S (4,4 Volt)	4	12	09/06>
LACETTI	2,0 D	2,0	89	(4,4 Volt)	4	12	01/07>
NUBIRA	1.9 dCi (JZO/1_)	1,9	96	F9Q 870 (4,4 Volt)	4	12	02/09->
OPEL GM							
ANTARA	2,0 CDTI	2,0	110	Z20 DM <Ecotec> (4,4 Volt)	4	12	05/06>
	2,0 CDTI	2,0	93	Z20 DM <Ecotec> (4,4 Volt)	4	12	03/07>
VAUXHALL							
ANTARA	2,0 CDTI	2,0	110	Z20 DM <Ecotech> (4,4 Volt)	4	12	05/06>

132 PHD 4,4 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
132 PHD	24	51	96,5	10	M10X1	4	4,4	3	63	4

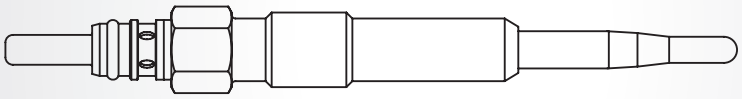
Suitable to:
BERU
GE 110
0 100 266 032
0 100 266 023
BOSCH
GLP221
0 250 403 012
DELPHI
HDS446

Suitable to:
MARELLI
UY18A
NGK
DP77
Y-1035AS
DACIA
82 00 682 592
RENAULT
82 00 682 592

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
DACIA							
SANDERO	1.5 dCi	1.5	55	K9K 892 (4,4 Volt)	4	12	05/10>
RENAULT							
FLUENCE	1,5 dCi (L30A)	1,5	63	K9K-830 (4,4 Volt)	4	12	02/10>
	1,5 dCi (L30D,L30L)	1,5	81	K9K-836, 837 (4,4 Volt)	4	12	02/10>
MEGANE III	1,5 dCi (BZ0_)	1,5	63	K9K-830 (4,4 Volt)	4	12	12/09>
	1.5 dCi 2 volumi (BZ0_)	1.5	66	K9K H 834 (4,4 Volt)	4	12	11/08>
	1.5 dCi 2 volumi (BZ0_)	1.5	81	K9K 836 (4,4 Volt)	4	12	02/09>
	1.5 dCi sw (KZ0C)	1.5	66	K9K 834 (4,4 Volt)	4	12	05/09>
	1.5 dCi sw (KZ0D)	1.5	81	K9K 836 (4,4 Volt)	4	12	02/09>
	1.5 dCi (DZ0_) Coupé	1.5	66	K9K H 834 (4,4 Volt)	4	12	11/08>
	1.5 dCi (DZ0_) Coupé	1.5	78	K9K G 832 (4,4 Volt)	4	12	02/09>
	1.5 dCi (DZ0_) Coupé	1.5	81	K9K J 836 (4,4 Volt)	4	12	02/09>
	1,5 dCi Grandtour (KZ0/1, KZ0C,KZ1A)	1,5	66	K9K-834 (4,4 Volt)	4	12	05/09>
	1,5 dCi Grandtour (KZ0/1,KZ1M,KZ1W)	1,5	78	K9K-836, 846 (4,4 Volt)	4	12	02/09>
	1,5 dCi Grandtour (KZ0/1,KZ09,KZ0D)	1,5	81	K9K-836, 837, 846 (4,4 Volt)	4	12	02/09>
MEGANE CC	1,5 dCi (EZ0/1,EZ0D,EZ1G)	1,5	81	K9K-836 (4,4 Volt)	4	12	06/10>
SCENIC III	1,5 dCi (JZ0/1)	1,5	63	K9K-830 (4,4 Volt)	4	12	04/09>
	1,5 dCi (JZ0/1)	1,5	81	K9K-836 (4,4 Volt)	4	12	04/09>
GRAND SCENIC III	1,5 dCi (JZ0/1)	1,5	63	K9K-830 (4,4 Volt)	4	12	04/09>
	1,5 dCi (JZ0/1)	1,5	81	K9K-836 (4,4 Volt)	4	12	04/09>

107 PHD 5,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
107 PHD	29	46	97	10	M10X1	4	5,0	3	63	5

Suitable to:
BERU
0 100 266 001
0 100 266 008
GE 100
BOSCH
GLP050
GSK2-HS
0 250 402 001
0 250 402 005

Suitable to:
CHAMPION
CH 700
DELPHI
HDS 413
DENSO
DG-177
MARELLI
UC01F

Suitable to:
NGK
DP50
Y-607AS
VOLKSWAGEN
N 105 916 02
N 105 916 03

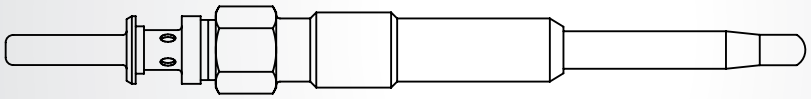
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
AUDI							
A2	1,4 TDI (8Z0)	1.4	66	ATL (5,0 Volt)	3	12	11/03>
A3	1,9 TDI (8P1)	1.9	77	BKC, BLS, BXE (5,0 Volt)	4	12	05/03>
	1,9 TDI Cabriolet (8P7)	2.0	77	BKC, BLS, BXE (5,0 Volt)	4	12	04/08>
	1,9 TDI SPORTBACK	1.9	77	BKC, BLS, BXE (5,0 Volt)	4	12	09/04>
	2,0 TDI	2.0	103	BMM (5 Volt)	4	12	06/05>
	2,0 TDI QUATTRO (8P1)	2.0	103	BMM (5 Volt)	4	12	01/06>
	2,0 TDI Sportback (8PA)	2.0	103	BMM (5 Volt)	4	12	06/05>
	2,0 TDI Sportback Quattro (8PA)	2.0	103	BMM (5 Volt)	4	12	01/06>
A4	1,9 TDI (8E2, B6)	1.9	85	BKE	4	12	06/04>12/04
	1,9 TDI (8EC, B7)	1.9	85	BKE, BRB	4	12	11/04>06/08
	1,9 TDI AVANT (8E5,B6)	1.9	85	BKE	4	12	06/04>12/04
	1,9 TDI AVANT (8ED)	1.9	85	BKE, BRB	4	12	11/04>06/08
SEAT							
ALHAMBRA	1,9 TDI (7V8, 7V9)	1.9	110	ARL (5 Volt)	4	12	05/05>
ALTEA	1,9 TDI (5P1)	1.9	66	BXF (5 Volt)	4	12	08/09>
	1,9 TDI (5P1)	1.9	77	BJB,BKC,BLS (5 Volt)	4	12	04/04>
	2,0 TDI	2.0	103	BMM (5 Volt)	4	12	11/05>
	2,0 TDI (5P1)	2.0	100	AZV (5 Volt)	4	12	03/04>05/09
	XL 1,9 TDI (5P5,5P8)	1,9	66	BXF (5 Volt)	4	12	08/09>
	XL 1,9 TDI (5P5,5P8)	1,9	77	BKC, BLS, BXE (5 Volt)	4	12	10/06>
IBIZA IV	1,9 TDI CUPRA R (6L1)	1.9	118	BPX (5 Volt)	4	12	03/04>
LEON	1,9 TDI (1M1)	1.9	74	AXR (5 Volt)	4	12	10/05>06/06
	1,9 TDI (1P1)	1,9	66	BXF (5 Volt)	4	12	06/07>
	1,9 TDI (1P1)	1.9	77	BKC, BLS (5 Volt)	4	12	07/05>
TOLEDO II	1,9 TDI (1M2)	1.9	74	AXR (5 Volt)	4	12	08/05>05/06
TOLEDO III	1,9 TDI (5P2)	1.9	77	BJB, BKC (5 Volt)	4	12	10/04>05/09
SKODA							
FABIA	1.9 TDI Combi	1.9	77	BLS, BSW (5 Volt)	4	12	10/07>

107 PHD 5,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
SKODA							
OCTAVIA	1,9 TDI	1.9	77	BJB, BKC (5 Volt)	4	12	06/04>
	1,9 TDI (1Z3)	1.9	77	BJB, BKC, BLS (5 Volt)	4	12	06/04>12/10
	1,9 TDI COMBI (1Z5)	1.9	77	BJB, BKC, BLS (5 Volt)	4	12	09/04>12/10
	1,9 TDI COMBI (1Z5) 4x4	1.9	77	BKC, BLS, BXE (5 Volt)	4	12	11/04>12/10
	2,0 TDI (1Z3)	2,0	103	BMM (5 Volt)	4	12	11/05>
	2,0 TDI (1Z5) COMBI 4X4	2.0	103	BMM (5 Volt)	4	12	07/06>
	2,0 TDI COMBI (1Z5)	2,0	103	BMM (5 Volt)	4	12	11/05>
ROOMSTER	1,9 TDI	1.9	77	BLS (5 Volt)	4	12	09/06>
SUPERB	1.9 TDI (3T4)	1.9	77	BLS,BXE (5 Volt)	4	12	03/08>
	1.9 TDI (3T5) S.W.	1.9	77	BLS,BXE (5 Volt)	4	12	10/09>11/10
VOLKSWAGEN							
BEETLE	1,9 TDI (9C1, 1C1)	1.9	77	BSW (5 Volt)	4	12	07/05>
	1,9 TDI Cabriolet (1Y7)	1.9	77	BSW (5 Volt)	4	12	07/05>
CADDY III	1,9 TDI (2KA,2KH,2CA,2CH)	1.9	77	BJB, BSU (5 Volt)	4	12	04/04>08/10
	1,9 TDI (2KA,2KH,2CA,2CH)	1.9	55	BSU (5 Volt)	4	12	09/05>08/10
	1,9 TDI (2KA,2KH,2CA,2CH)	1.9	77	BSU (5 Volt)	4	12	11/08>08/10
	1,9 TDI (2KB,2KJ,2CB,2CJ)	1.9	55	BSU (5 Volt)	4	12	09/05>08/10
	1,9 TDI (2KB,2KJ,2CB,2CJ)	1.9	77	BJB, BLS (5 Volt)	4	12	04/04>08/10
	1,9 TDI 4X4 (2KB,2KJ,2CB,2CJ)	1.9	77	BLS (5 Volt)	4	12	05/08>08/10
	2,0 TDI (2KA,2KH,2CA,2CH)	2.0	103	BMM (5 Volt)	4	12	09/07>08/10
	2,0 TDI (2KB,2KJ,2CB,2CJ)	2.0	103	BMM (5 Volt)	4	12	09/07>08/10
CRAFTER	2.5 TDI 30-35 (2E)	2.5	65	BJJ	5	12	04/06>
EOS	2,0 TDI (1F7, 1F8)	2.0	103	BMM (5 Volt)	4	12	06/06>05/08
GOLF V	1,9 TDI (1K1)	1.9	66	BRU, BXF (5 Volt)	4	12	05/04>11/08
	1,9 TDI (1K1)	1.9	77	BJB , BKC (5 Volt)	4	12	10/03>11/08
	1,9 TDI (1K1) 4 MOTION	1.9	77	BKC, BLS, BXE (5 Volt)	4	12	08/04>11/08
	1,9 TDI Variant (1K1)	1.9	77	BLS, BXE (5 Volt)	4	12	06/07>
	1,9 TDI Variant 4X4 (1K1)	1.9	77	BLS (5 Volt)	4	12	01/08>
	2,0 SDI (1K1)	2.0	55	BDK (5 Volt)	4	12	01/04>11/08
	2,0 TDI (1K1)	2,0	103	BMM (5 Volt)	4	12	12/04>11/08
	2,0 TDI 4X4 (1K1)	2,0	103	BMM (5 Volt)	4	12	08/04>11/08
	2,0 TDI Variant (1K1)	2,0	103	BMM (5 Volt)	4	12	06/07>
GOLF VI	2.0 TDI Variant (AJ5)	2.0	103	BMM (5 Volt)	4	12	07/09>
GOLF PLUS	1,9 TDI (5M1)	1.9	77	BKC, BLS, BXE (5 Volt)	4	12	01/05>01/09
	1,9 TDI (5M1, 521)	1.9	66	BRU, BXF, BXJ (5 Volt)	4	12	05/05>12/08
	2,0 TDI (5M1, 521)	2,0	103	BMM (5 Volt)	4	12	12/05>05/09
JETTA III	1,9 TDI (1K2)	1.9	77	BKC, BLS, BXE (5 Volt)	4	12	09/05>10/10
	2,0 TDI (1K2)	2.0	103	BMM (5 Volt)	4	12	10/05>10/10
MULTIVAN	1,9 TDI (7HM)	1.9	75	BRS (5 Volt)	4	12	06/06>
MULTIVAN V	1.9 TDI (7HM, 7HN, 7HF, 7EF, 7EM, 7EN)	1.9	62	BRR (5 Volt)	4	12	01/06>11/09
	1.9 TDI (7HM, 7HN, 7HF, 7EF, 7EM, 7EN)	1.9	75	BRS (5 Volt)	4	12	06/06>11/09
PASSAT	1,9 TDI (3C2)	1.9	77	BKC (5 Volt)	4	12	03/05>11/08
	1,9 TDI Variant (3C5)	1.9	77	BKC, BLS, BXE (5 Volt)	4	12	08/05>11/08
	2.0 TDI (3C2) 4motion	2.0	103	BKP, CBAB, BMP (5 Volt)	4	12	03/05>
	2.0 TDI (3C2) 4motion	2.0	103	BGW (4,4 Volt)	4	12	03/05>
PHAETON	3,2 V6	3.2	177	AYT (5 Volt)	6	12	04/02>
SHARAN	1,9 TDI (7M6, 7M8, 7M9)	1.9	110	BTB (5 Volt)	4	12	06/05>
	2.0 TDI	2.0	103	BRT (5 Volt)	4	12	11/05>
TOURAN	1,9 TDI (1T1, 1T2)	1.9	66	BRU, BXF, BXJ (5 Volt)	4	12	11/04>05/10
	1,9 TDI (1T1, 1T2)	1.9	74	AVQ (5 Volt)	4	12	02/03>05/04
	1,9 TDI (1T1, 1T2)	1.9	77	BKC, BLS, BXE (5 Volt)	4	12	08/03>05/10
	2,0 TDI (1T1, 1T2)	2,0	103	BMM (5 Volt)	4	12	12/05>05/10
TRANSPORTER V	1.9 TDI (7HB, 7HJ)	1.9	75	BRS (5 Volt)	5	12	06/06>11/09
	1.9 TDI (7HB, 7HJ, 7EB, 7EJ, 7EF)	1.9	62	BRR (5 Volt)	4	12	01/06>11/09

109 PHD 5,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
109 PHD	32	46	106	10	M10X1	4	5,0	3	63	5

Suitable to:
ASHIKA
01-09-912
BERU
GE 102
0 100 266 002
BMW
12 23 7 786 869
77 86 869

Suitable to:
BOSCH
GLP070
GSK2
0 250 402 002
CHAMPION
CH701
DELPHI
HDS 415

Suitable to:
DENSO
DG-178
MARELLI
UC02F
NGK
DP47
Y-547AS

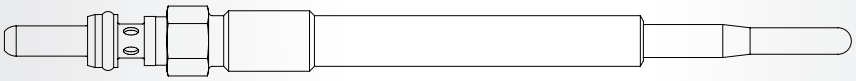
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
BMW							
118 D (E87)	2,0 D (E81, E87)	2.0	90	M47N204D4 (5 Volt)	4	12	09/04>09/12
120 D (E81, E87)	2,0 D (E81, E87)	2.0	120	M47N204D4 (5 Volt)	4	12	09/04>09/12
318 D (E46)	2.0 D (E46)	2.0	85	M47D20,M47N204D1 (5 Volt)	4	12	09/01>03/03
	2.0 D (E46)	2.0	85	M47N204D4 (5 Volt)	4	12	03/03>02/05
318 TD (E46)	2,0 (E46) TD COMPACT	2.0	85	M47N204D4 (5 Volt)	4	12	03/03>02/05
318 D (E46)	320d (E46) TOURING	2,0	85	M47 D20 (5 Volt)	4	12	03/02>02/05
		2,0	85	M47N204D4 (5 Volt)	4	12	03/03>02/05
318 D (E90)	2,0 D (E90)	2.0	90	M47N204D4 (5 Volt)	4	12	09/05>
318 D (E91) Touring	318d (E91) TOURING	2.0	90	M47N204D4 (5 Volt)	4	12	09/05>
320 D (E46)	2.0 D (E46)	2.0	110	M47N204D4 (5 Volt)	4	12	09/01>02/05
	2,0 d (E46) TOURING	2,0	110	M47N204D4 (5 Volt)	4	12	09/01>02/05
320 D (E90)	2,0 D (E90)	2.0	120	M47N204D5 (5 Volt)	4	12	01/05>
320 D (E91)	2,0 d (E91)	2.0	120	N47 D20A, M47N204D5 (5 Volt)	4	12	09/05>
	2,0 d (E91)	2.0	110	M47 D20TU, M47N204D4 (5 Volt)	4	12	09/05>
320 C D (E46)	2.0 (E46) CD CABRIOLET	2.0	110	M47N204D4 (5 Volt)	4	12	02/05>
	2,0 (E46) CD COUPE'	2.0	110	M47N204D4 (5 Volt)	4	12	11/03>
320 D (E90)	2,0 (E90)TD	2.0	150	M47N204D4 (5 Volt)	4	12	09/01>02/05
325 (E91)	3.0 (E91) D	3.0	145	M57306D3,M57D30TU2 (5 Volt)	6	12	09/06>
325 (E92)	3,0 (E92) D COUPE'	3,0	145	M57D30TU2, N57N306D3(5Volt)	6	12	03/07>
330 D (E46)	3.0 (E46) D	3.0	150	M57N306D2 (5 Volt)	6	12	03/03>02/05
	3.0 (E46) D	3.0	150	M57N306D2 (5 Volt)	6	12	03/03>02/05
330 D (E90)	3.0 (E90) D	3.0	170	M57N306D3 (5 Volt)	6	12	09/05>
330 D (E91) Touring	3,0 (E91) D TOURING	3.0	170	M57N306D3 (5 Volt)	6	12	09/05>
330 D (E92)	330 (E92) D COUPE'	3,0	170	M57D30TU2, N57N306D3(5Volt)	6	12	09/06>
330 CD (E46)	3.0 (E46) CD CABRIOLET	3.0	150	M57N306D2 (5 Volt)	6	12	08/05>
	3.0 (E46) CD COUPE'	3.0	150	M57N306D2 (5 Volt)	6	12	03/03>
330 XD (E46)	3.0 (E46) XD	3.0	150	M57N306D2 (5 Volt)	6	12	03/03>02/05
330 XD (E90)	3.0 (E90) XD	3.0	170	M57N306D3 (5 Volt)	6	12	09/05>
330 XD (E91)Touring	3.0 (E91) XD TOURING	3.0	170	M57N306D3 (5 Volt)	6	12	09/05>
330 XD (E92)Coupè	3,0 (E92) XD COUPE'	3,0	170	M57N306D3, M57D30TU2 (5 Volt)	6	12	09/06>
335 D (E90)	3,0 (E90) D	3,0	210	M57N306D5 (5 Volt)	6	12	09/06>
335 D (E92)	3,0 (E92) D COUPE'	3,0	210	M57N306D5 (5 Volt)	6	12	09/06>

109 PHD 5,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
BMW							
335 D (E91)	3,0 (E91) D TOURING	3,0	210	M57N306D5 (5 Volt)	6	12	09/06>
520 D (E60)	2,0 (E60) D	2,0	110	M47N204D4 (5 Volt)	4	12	09/05>03/10
	2,0 (E60) D	2.0	120	M47N204D5, N47D20A (5 Volt)	4	12	07/05>03/10
	2,0 (E60) D	2,0	130	M47N204D4,N47D20A/C(5 Volt)	4	12	09/07>03/10
520 D (E61) Touring	2,0 (E61) D	2.0	110	M47N204D4 (5 Volt)	4	12	09/05>
525 D (E60)	2,5 (E60) D	2.5	130	M57D25TU, M57N256D4 (5 Volt)	6	12	06/04>03/10
	2,5 (E60) D	2.5	145	M57 306 D3 (5 Volt)	6	12	01/07>03/10
	2,5 (E60) D	2.5	120	M57 256 D1 (5 Volt)	6	12	12/04>03/10
525 XD (E60)	2,5 (E60) XD	2,5	145	M57D25TU, M57N256D4 (5 Volt)	6	12	01/07>03/10
	2,5 (E60) XD	2,5	145	M57D25TU, M57N256D4 (5 Volt)	6	12	09/08>03/10
525 D (E61) Touring	2,5 (E61) D TOURING	2.5	130	M57D25TU, M57N256D4 (5 Volt)	6	12	06/04>03/10
	2,5 (E61) D TOURING	2.5	145	M57 306 D3 (5 Volt)	6	12	01/07>03/10
	2,5 (E61) D TOURING	2.5	120	M57 256 D4 (5 Volt)	6	12	12/04>03/10
530 D (E60)	3,0 (E60) D	3.0	160	M57N306D2 (5 Volt)	6	12	07/03>03/10
	3,0 (E60) D	3.0	170	M57N306D3 (5 Volt)	6	12	07/03>03/10
	3,0 (E60) D	3.0	173	M57N306D3 (5 Volt)	6	12	01/07>03/10
530 XD (E60)	3,0 (E60) XD	3.0	170	M57N306D3 (5 Volt)	6	12	07/05>03/10
	3,0 (E60) XD	3.0	173	M57N306D3 (5 Volt)	6	12	01/07>03/10
530 D (E61)Touring	3,0 (E61) D TOURING	3.0	160	M57N306D2 (5 Volt)	6	12	06/04>
	3,0 (E61) D TOURING	3.0	170	M57N306D3 (5 Volt)	6	12	07/05>
	3,0 (E61) D TOURING	3.0	173	M57N306D3 (5 Volt)	6	12	01/07>
530 XD (E61)Touring	3,0 (E61) XD TOURING	3.0	170	M57N306D3 (5 Volt)	6	12	07/05>
	3,0 (E61) XD TOURING	3.0	173	M57N306D3 (5 Volt)	6	12	01/07>
535 D (E60)	3,0 (E60) D	3.0	200	M57N306D4 (5 Volt)	6	12	09/04>03/10
	3,0 (E60) D	3.0	210	M57N306D5 (5 Volt)	6	12	01/07>03/10
535 D (E61)	3,0 (E61) D TOURING	3.0	200	M57N306D4 (5 Volt)	6	12	09/04>
	3,0 (E61) D	3.0	210	M57N306D5 (5 Volt)	6	12	01/07>
635 D (E64)	3,0 (E64) D CABRIOLET	3,0	210	M57N306D5 (5 Volt)	6	12	07/07>
730 D (E65, E66)	3,0 (E65,E66) D	3.0	160	M57N306D2 (5 Volt)	6	12	10/02>
730 D,TD (E65, E66)	3,0 (E65,E66) D,TD	3.0	170	M57 306 D3, M57N306D2 (5 Volt)	6	12	07/05>
X3 (E83)	2,0 (E83) D	2.0	110	M47N204D4 (5 Volt)	4	12	10/04>
	3,0 (E83) D	3.0	150	M54N 306 D2 (5 Volt)	6	12	01/04>
	3,0 (E83) D	3.0	160	M57N 2306 D2 (5 Volt)	6	12	01/04>
	3,0 (E83) SD	3,0	210	M57 306 D5 (5 Volt)	6	12	09/06>
X5 (E53)	3,0 (E53) D	3.0	160	M57N306D4 (5 Volt)	6	12	12/03>
X5 (E70)	3,0 (E70) D	3,0	173	M57 306 D3 (5 Volt)	6	12	02/07>09/08
	3,0 (E70) SD	3,0	210	M57 306 D3 (5 Volt)	6	12	09/07>09/08
X6 3,0 (E71, E72)	3,0 (E71,E72) D	3.0	173	N57N 306 D3 (5 Volt)	6	12	05/08>
X6 3,5 XD(E71, E72)	3,5 (E71,E72) D	3,0	210	M57N 306 D5 (5 Volt)	6	12	05/08>
X6 (E71, E72)	3,5 (E71,E72) D xDrive	3,0	210	M57N 306 D5 (5 Volt)	6	12	09/08>
JEEP							
COMPASS	2.0 CRD	2.0	103	ECD, ECE (5 Volt)	4	12	08/06>
	2.0 CRD 4x4	2.0	103	ECE (5 Volt)	4	12	09/06>

133 PHD 5,0 V

NEW



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
133 PHD	27,5	63	112	8	M8X1	4	5,0	3	123	4,4

Suitable to:
NGK
DP58
Y-8001AS
FORD
1682276
AV6Q6M090BA

Suitable to:
P.S.A.
5960 E6
9683 195 280

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
CITROEN							
C3 II	1,6 HDI 110	1,6	82	9HR (DV6C) (5 Volt)	4	12	11/09>
C3 PICASSO	1,6 HDI 110 PICASSO	1,6	82	9HR (DV6C) (5 Volt)	4	12	05/10>
	1,6 HDI 90 Picasso	1.6	68	9HP DV6DTED (5 Volt)	4	12	07/10>
C4	1,6 Hdi 110 (B7)	1,6	82	9HR (DV6C) (5 Volt)	4	12	11/09>
C4	1,6 HDI 115	1,6	84	(5 Volt)	4	12	04/12>
C4	1,6 HDI 115 AWC	1,6	84	(5 Volt)	4	12	05/12>
C4	1.6 HDI 90 (B7)	1,6	68	9HJ(DV6DTEDM), 9HP(DV6DTED) (5 Volt)	4	12	11/09>
C4 AIRCROSS	2,0 HDI 150 (B7)	2,0	110	(5 Volt)	4	12	11/09>
C4 PICASSO	2.0 HDI 150	2,0	110	(5 Volt)	4	12	07/09>
	2.0 HDI 165	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	09/10>
C4 Grand PICASSO	2.0 Hdi 150	2,0	110	(5 Volt)	4	12	07/09>
	2.0 Hdi 165	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	09/10>
C5	1,6 HDI 110	1,6	82	9HR (DV6C) (5 Volt)	4	12	07/10>
	1,6 HDI Break (TD_) 110	1,6	82	9HR (DV6C) (5 Volt)	4	12	07/10>
	2,0 HDI 165	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	04/09>
	2,0 HDI 165 (TD)	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	04/09>
DS3	1,6 HDI 90	1,6	68	9HP (DV6DTED) (5 Volt)	4	12	11/09>
	1,6 HDI 110	1,6	82	9HR (DV6C) (5 Volt)	4	12	11/09>
DS4	1,6e HDI 110	1,6	81	(5 Volt)	4	12	04/11>
	1,6 HDI 110	1,6	82	9HR (DV6C) (5 Volt)	4	12	04/11>
	2,0 HDI 160	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	04/11>
DS5	1,6 HDI 110	1,6	82	9HR (DV6C) (5 Volt)	4	12	11/11>
	2,0 HDI 165	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	11/11>
	2,0 HDI 165 Hybrid4 4x4	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	12/11>
BERLINGO	1,6 HDI 110	1.6	82	9HR (DV6C) (5 Volt)	4	12	07/10>
	1,6 HDI 90 Furgonato	1.6	82	9H9 (DV6DTED), 9HX (DV6ATED4)(5 Volt)	4	12	07/10>
JUMPY	2,0 HDI 125	2,0	94	(5 Volt)	4	12	07/11>
	2,0 HDI 125 Furgonato	2,0	94	(5 Volt)	4	12	07/11>
	2,0 HDI 165	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	07/10>
	2,0 HDI 165 Furgonato	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	07/10>
	2,0 HDI 95	2,0	72	(5 Volt)	4	12	07/11>
	2,0 HDI 95 Furgonato	2,0	72	(5 Volt)	4	12	07/11>

133 PHD 5,0 V

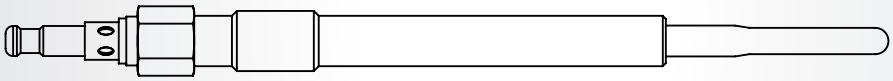
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
FORD							
B-MAX	1,5 TDCI	1,5	55	(5 Volt)	4	12	12/10>
	1,6 TDCI	1,6	70	(5 Volt)	4	12	12/10>
C-MAX II	1,6 TDCI	1,6	85	T1DA, T1DB (5 Volt)	4	12	12/10>
	1,6 TDCI	1,6	70	T3DA, T3DB (5 Volt)	4	12	12/10>
	2,0 TDCI	2,0	85	TYDA (5 Volt)	4	12	02/11>
	2,0 TDCI	2,0	103	UFDB (5 Volt)	4	12	02/11>
	2,0 TDCI	2,0	120	TXDB (5 Volt)	4	12	12/10>
GRAND C-MAX	1,6 TDCI	1,6	85	T1DA, T1DB (5 Volt)	4	12	12/10>
	1,6 TDCI	1,6	70	T3DA, T3DB (5 Volt)	4	12	12/10>
	2,0 TDCI	2,0	85	TYDA (5 Volt)	4	12	02/11>
	2,0 TDCI	2,0	103	UFDB (5 Volt)	4	12	02/11>
	2,0 TDCI	2,0	120	TXDB (5 Volt)	4	12	12/10>
FIESTA VI	1,6 TDCI	1,6	70	TZJA, TZJB (5 Volt)	4	12	02/10>
FOCUS III	1,6 TDCI	1,6	85	T1DA, T1DB (5 Volt)	4	12	04/11>
	1,6 TDCI	1,6	70	T3DA, T3DB (5 Volt)	4	12	04/11>
	2,0 TDCI	2,0	120	TXDB (5 Volt)	4	12	04/11>
	2,0 TDCI	2,0	103	UFDB (5 Volt)	4	12	04/11>
	2,0 TDCI	2,0	85	TYDA (5 Volt)	4	12	04/11>
	Tre volumi 1.6 TDCi	1,6	85	T1DA, T1DB (5 Volt)	4	12	04/11>
	Tre volumi 1.6 TDCi	1,6	70	T3DA, T3DB (5 Volt)	4	12	04/11>
	Tre volumi 2,0 TDCi	2,0	120	TXDB (5 Volt)	4	12	04/11>
	Tre volumi 2,0 TDCi	2,0	103	UFDB (5 Volt)	4	12	04/11>
	Tre volumi 2,0 TDCi	2,0	85	TYDA (5 Volt)	4	12	04/11>
	TURNIER 1.6 TDCi	1,6	85	T1DA, T1DB (5 Volt)	4	12	05/11>
	TURNIER 1.6 TDCi	1,6	70	T3DA, T3DB (5 Volt)	4	12	05/11>
	TURNIER 2,0 TDCi	2,0	120	TXDB (5 Volt)	4	12	05/11>
	TURNIER 2,0 TDCi	2,0	103	UFDB (5 Volt)	4	12	05/11>
	TURNIER 2,0 TDCi	2,0	85	TYDA (5 Volt)	4	12	05/11>
GALAXY	1,6 TDCi	1,6	85	T1DA, T1DB (5 Volt)	4	12	02/11>
	2.0 TDCi	2,0	100	AZWC, UKWA (5 Volt)	4	12	05/06>
	2.0 TDCi	2,0	103	QXWA,QXWB,QXWC (5 Volt)	4	12	05/06>
	2.0 TDCi	2,0	120	TXWA (5 Volt)	4	12	03/10>
KUGA	2,0 TDCi	2,0	103	UFDA (5 Volt)	4	12	03/10>
	2,0 TDCI 4x4	2,0	103	UFDA (5 Volt)	4	12	03/10>
MONDEO IV	1,6 TDCi	1,6	85	T1BB (5 Volt)	4	12	02/11>
	1,6 TDCI Turnier	1,6	85	T1BB (5 Volt)	4	12	02/11>
	2.0 TDCi	2,0	120	TXBA (5 Volt)	4	12	03/10>
	2,0 TDCI Turnier	2,0	120	TXBA (5 Volt)	4	12	03/10>
S-MAX	1,6 TDCi	1,6	85	(5 Volt)	4	12	02/11>
	2.0 TDCi	2.0	103	QXWA,QXWB,QXWC (5 Volt)	4	12	05/06>
PEUGEOT							
207	1,6 HDI 110(WA_, WC_)	1,6	82	9HZ (DV6TED4) (5 Volt)	4	12	08/09>
	1,6 HDI CC (WA_, WC_)	1,6	82	9HR (DV6C) (5 Volt)	4	12	08/09>
	1,6 HDI WK (WA_, WC_)	1,6	82	9HR (DV6C) (5 Volt)	4	12	08/09>
208	1,6 HDI	1,6	68	9HP (DV6DTED) (5 Volt)	4	12	03/12>
	1,6 HDI	1,6	84	(5 Volt)	4	12	03/12>
308	1,6 HDI CC	1,6	82	9HR (DV6C) (5 Volt)	4	12	06/09>
	1.6 HDI (4A_,4C_)	1,6	82	9HR (DV6C) (5 Volt)	4	12	12/09>
	1.6 HDI (4A_,4C_)	1,6	68	9HP (DV6DTED) (5 Volt)	4	12	11/09>
	1.6 HDI SW	1,6	82	9HR (DV6C) (5 Volt)	4	12	12/09>
	1.6 HDI SW (4A_,4C_)	1,6	68	9HP (DV6DTED) (5 Volt)	4	12	11/09>
	2,0 HDI	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	06/09>
	2,0 HDI SW	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	06/09>
407	2,0 HDI (6D_)	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	07/09>
	2,0 HDI COUPE' (6C_)	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	06/09>
	2,0 HDI SW (6E_)	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	07/09>

133 PHD 5,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
PEUGEOT							
508	1,6 HDI	1.6	82	9HR (DV6C) (5 Volt)	4	12	11/10>
	1,6 HDI	1.6	84	9HD (DV6CTED) (5 Volt)	4	12	02/12>
	1,6 HDI SW	1.6	82	9HR (DV6C) (5 Volt)	4	12	11/10>
	1,6 HDI SW	1.6	84	9HD (DV6CTED) (5 Volt)	4	12	02/12>
	2,0 HDI	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	11/10>
	2,0 HDI SW	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	11/10>
807	2,0 HDI	2.0	120	RHR (DW10BTED4)	4	12	06/09>
3008	1,6 HDI	1.6	82	9HR (DV6C) (5 Volt)	4	12	08/10>
	2,0 HDI	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	06/09>
	2,0 HDI	2,0	110	RHE (DW10CTED4) (5 Volt)	4	12	06/09>
	2,0 HYBRID4	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	02/11>
4008	1,6 HDI AWC	1,6	84	(5Volt)	4	12	05/12>
5008	1,6 HDI	1,6	82	9HR (DV6C) (5 Volt)	4	12	08/10>
	2,0 HDI	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	09/09>
	2,0 HDI	2,0	110	RHE (DW10CTED4) (5 Volt)	4	12	06/09>
EXPERT	2,0 HDI 130 (VF3A/U/X)	2.0	94		4	12	03/11>
	2,0 HDI 165 (VF3A/U/X)	2.0	120	RHH (DW10CTED4) (5 Volt)	4	12	03/11>
EXPERT Teepee	2,0 HDI 100 (VF3V)	2.0	72		4	12	03/11>
	2,0 HDI 130 (VF3V)	2.0	94		4	12	03/11>
	2,0 HDI 165 (VF3V)	2.0	120	RHH (DW10CTED4) (5 Volt)	4	12	09/09>
RCZ	2,0 HDI	2,0	120	RHH (DW10CTED4) (5 Volt)	4	12	03/10>

108 PHD 4,4 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
108 PHD	29,5	70	117,5	8	M8X1	4	4,4	3	93	4

Suitable to:
BERU
0 100 226 009
0 100 266 004
0 100 266 009
GE 101
BOSCH
0 250 403 002
CH702
HDS414

Suitable to:
CHAMPION
CH 702
DELPHI
HDS414
DENSO
DG-190
MARELLI
UC03F

Suitable to:
NGK
DP48
YE-14
MITSUBISHI
MN980234
SEAT
N 105 798 02

Suitable to:
SKODA
N 105 798 02
VOLKSWAGEN
N 105 798 02

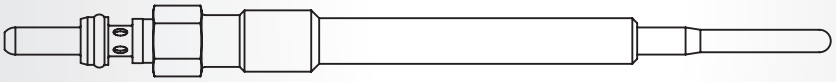
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
AUDI							
A3	2,0 TDI (8P1)	2.0	100	AZV, CBAA, CFFA (4,4 Volt)	4	12	05/03>
	2,0 TDI (8P1) 16V	2.0	103	BKD, CBAB, CFFB (4,4 Volt)	4	12	05/03>
	2,0 TDI QUATTRO (8P1)	2.0	103	AZV (4,4 Volt)	4	12	05/03>
	2,0 TDI QUATTRO (8P1) 16V	2.0	103	BKD, CBAB, CFFB (4,4 Volt)	4	12	08/04>
	2,0 TDI SPORTB. (8PA) 16V	2.0	103	BKD, CBAB, CFFB (4,4 Volt)	4	12	09/04>
	2,0 TDI SPORTB. (8PA) 4 - 16V	2.0	103	BKD, CBAB, CFFB (4,4 Volt)	4	12	11/05>
A4	2,0 TDI (8EC, B7)	2.0	100	BNA, BRF (4,4 Volt)	4	12	11/04>06/08
	2,0 TDI (8EC, B7) 16V	2.0	103	BLB, BRE (4,4 Volt)	4	12	11/04>06/08
	2,0 TDI (8ED, B7) AVANT	2.0	100	BNA, BRF (4,4 Volt)	4	12	11/04>06/08
	2,0 TDI (8ED, B7) AVANT 16V	2.0	103	BLB, BRE (4,4 Volt)	4	12	11/04>06/08
A6	2,0 TDI (4F2, C6)	2.0	100	BNA Da n° telaio 8E-5-400 001 (4,4 Volt)	4	12	07/04>03/11
	2,0 TDI (4F2, C6)	2.0	103	BLB, BRE (4,4 Volt)	4	12	07/04>10/08
	2,0 TDI AVANT (4F5, C6)	2,0	100	BNA Da n° telaio 8E-5-400 001 (4,4 Volt)	4	12	06/05>08/11
	2,0 TDI AVANT (4F5, C6)	2.0	103	BLB, BRE (4,4 Volt)	4	12	06/05>10/08
DODGE							
AVENGER	2.0 CRD	2.0	103	ECD (4,4 Volt)	4	12	06/07>
CALIBER	2.0 CRD	2.0	103	ECD, ECE (4,4 Volt)	4	12	06/06>
JEEP							
PATRIOT	2.0 CRD	2.0	103	ECD, ECE (4,4 Volt)	4	12	01/08>
MITSUBISHI							
GRANDIS	2.0 DI-D (NA_W)	2.0	100	BSY (4,4 Volt)	4	12	09/05->
LANCER	2.0 DI-D 3 VOL	2.0	103	BKD (4,4 Volt)	4	12	01/08>
	2.0 DI-D SPORTBACK	2.0	103	BKD (4,4 Volt)	4	12	06/08>
OUTLANDER II	2.0 DI-D (CW_W)	2.0	103	BSY (4,4 Volt)	4	12	02/07>
SEAT							
ALTEA	2,0 TDI (5P1) 16V	2.0	103	BKD, CFHC (4,4 Volt)	4	12	03/04>
	XL 2.0 TDI (5P5, 5P8) 16V	2.0	103	BKD, CFHC (4,4 Volt)	4	12	10/06>
LEON	2.0 TDI	2.0	100	AZV (4,4 Volt)	4	12	07/05-05/10
	2.0 TDI 16V	2.0	103	BKD, CFHC, CLCB (4,4 Volt)	4	12	07/05>
TOLEDO III	2,0 TDI (5P2)	2.0	100	AZV (4,4 Volt)	4	12	09/04>05/09
	2,0 TDI (5P2) 16V	2.0	103	BKD (4,4 Volt)	4	12	04/04>05/09

108 PHD 4,4 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
SKODA							
OCTAVIA	2,0 TDI (1Z3)	2.0	100	AZV (4,4 Volt)	4	12	02/04>05/10
	2,0 TDI (1Z3) 16V	2.0	103	BKD, CFHC, CLCB (4,4 Volt)	4	12	02/04>
	2,0 TDI (1Z5) 16V	2,0	100	AZV (4,4 Volt)	4	12	02/04>05/10
	2,0 TDI (1Z5) 16V	2,0	103	BKD, CFHC, CLCB (4,4 Volt)	4	12	02/04>
SUPERB	1,6 TDI (3T4)	1,6	77	CAYC (4,4 Volt)	4	12	09/10>
	1,6 TDI (3T5) SW	1,6	77	CAYC (4,4 Volt)	4	12	09/10>
	2,0 TDI 16V (3T4)	2.0	103	BKD, CFFB, CLJA (4,4 Volt)	4	12	01/09>
	2,0 TDI SW 16V (3T5)	2,0	103	BKD, CFFB, CLJA (4,4 Volt)	4	12	10/09>
VOLKSWAGEN							
CADDY III	2,0 SDI (2KA)	2.0	51	BDJ (4,4 Volt)	4	12	03/04>
	2,0 SDI S.W.(2KA)	2.0	51	BDJ (4,4 Volt)	4	12	03/04>
GOLF V	2,0 TDI (1K1)	2.0	100	AZV (4,4 Volt)	4	12	10/03>11/08
	2,0 TDI (1K1) 16V	2.0	103	BKD (4,4 Volt)	4	12	10/03>11/08
	2,0 TDI 4 MOTION (1K1) 16V	2.0	103	BKD (4,4 Volt)	4	12	08/04>11/08
	2,0 TDI Variant (1K5)	2.0	100	AZV (4,4 Volt)	4	12	06/07>
	2,0 TDI Variant (1K5) 16V	2.0	103	BKD (4,4 Volt)	4	12	06/07>
	2,0 TDI Variant 4 MOTION (1K5) 16V	2.0	100	AZV (4,4 Volt)	4	12	06/07>
GOLF PLUS	2,0 TDI (5M1, 521)	2.0	96	BEE (4,4 Volt)	4	12	05/05>05/07
	2,0 TDI (5M1, 521)	2.0	100	AZV, CBDA, CFHB (4,4 Volt)	4	12	05/05>
	2,0 TDI (5M1, 521) 16V	2.0	103	BKD, CBDB, CFHC (4,4 Volt)	4	12	01/05>
JETTA III	2,0 TDI (1K2)	2.0	100	AZV (4,4 Volt)	4	12	09/05>10/10
	2,0 TDI (1K2)	2.0	103	BKD (4,4 Volt)	4	12	08/05>10/10
PASSAT	2,0 TDI (3C2)	2.0	100	BMA (4,4 Volt)	4	12	03/05>11/10
	2,0 TDI (3C2) 16V	2.0	103	BKP (4,4 Volt)	4	12	03/05>
	2,0 TDI (3C2) 4motion	2.0	103	BKP (4,4 Volt)	4	12	03/05>
	2,0 TDI (3C5) Variant 16V	2.0	103	BKP (4,4 Volt)	4	12	08/05>
	2,0 TDI (3C5) Variant 16V 4motion	2.0	103	BKP (4,4 Volt)	4	12	08/05>
	2,0 TDI Variant (3B6)	2.0	100	BGW (4,4 Volt)	4	12	12/03>
	2,0 TDI Variant (3C5)	2.0	100	BMA (4,4 Volt)	4	12	08/05>11/10
TOURAN	2,0 TDI (1T1, 1T2)	2.0	100	AZV (4,4 Volt)	4	12	02/03>05/10
	2,0 TDI (1T1, 1T2)	2.0	125	BMN, CFJA (7 Volt)	4	12	12/05>05/10

134 PHD 4,4 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
134 PHD	28	70	119,5	9	M9X1	4	4,4	3	93	4

Suitable to:
BERU
0 100 266 025
0 100 266 031
GE 112
DELPHI
HDS448

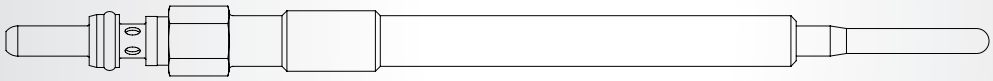
Suitable to:
MARELLI
UY19A
FIAT
55210051
G.M.
55 564 219

Suitable to:
OPEL **G.M.**
18 26 357
55 564 219

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
OPEL							
ASTRA J	1.3 CDTI ecoFlex	1.3	70	A 13 DTE (4,4 Volt)	4	12	12/09>
	1.3 CDTI ecoFlex 3 VOLUMI	1.3	70	A 13 DTE (4,4 Volt)	4	12	06/12>
	1.3 CDTI ecoFlex Sport Tourer	1.3	70	A 13 DTE (4,4 Volt)	4	12	10/10>
CORSA	D - 1.3 CDTI	1.3	55	A13DTC-Z13DTJ (4,4Volt)	4	12	07/06>
	D - 1.3 CDTI	1.3	70	A13DTR-Z13DTE-Z13DTR (4,4Volt)	4	12	06/10>
	D - 1.3 CDTI VAN	1.3	55	A13DTC-Z13DTJ (4,4Volt)	4	12	07/10>
	D - 1.3 CDTI VAN	1.3	70	A13DTR-Z13DTE (4,4Volt)	4	12	06/10>
MERIVA B	1,7 CDTI	1.7	70	A 13 DTE (4,4Volt)	4	12	06/10>
VAUXHALL							
ASTRA	1,3 CDTI MK VI (J)	1.3	70	A 13 DTE (4,4Volt)	4	12	12/09>
	1,3 CDTI MK VI (J) SPORTS TOURER	1.3	70	A 13 DTE (4,4Volt)	4	12	10/10>
CORSA	1,3 CDTI MK IV (D)	1.3	70	A13DTE-Z13DTE-Z13DTR (4,4Volt)	4	12	11/06>
CORSAVAN	D 1,3 CDTI MK IV	1.3	70	Z13DTE (4,4Volt)	4	12	07/06>
MERIVA	1.3 CDTI MK II (B)	1.3	55	A 13 DTC (4,4Volt)	4	12	06/10>

135 PHD 4,4 V

NEW



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
135 PHD	29,5	83	130	8	M8X1	4	4,4	3	93	4

Suitable to:
BOSCH
GLP201
0 250 403 004
OPEL GM
12 62 5507
VM
46 07 201F

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
JEEP							
WRANGLER	RUBICON	4,4					2007->

136 PHD 5,0 V

ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
136 PHD	25	83	130	10	M10X1	4	5,0	3	63	5

Suitable to:

BOSCH

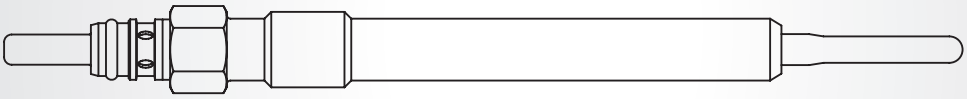
0 250 402 003
GLP195

VM

46 07 2012F
46 07 2017F

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
JEEP							
CHEROKEE	2.8 CRD (KJ)	2.8	110	**VM (5 Volt)**	4	5	01/08>

111 PHD 4,4 V



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
111 PHD	24	81	127	10	M10X1	4	4,4	3	63	4

Suitable to:
BERU
0 100 266 014
0 100 266 016
0 100 266 020
0 100 266 040
GE 108
GE 115
BOSCH
GLP194
0 250 403 007
0 250 403 009

Suitable to:
CHAMPION
CH 705
DELPHI
HDS 432
DENSO
DG-193
NGK
DP49
DP57
Y-609AS
Y-1002AS

Suitable to:
PORSCHE
955 170 320 90
VOLKSWAGEN
03L 963 319
03L 963 319 A
059 963 319 C
059 963 319 E
059 963 319 F
059 963 319 J

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
AUDI							
A1	1,6 TDI (8X1)	1,6	66	CAYB (4,4 Volt)	4	12	03/11>
	1,6 TDI (8X1)	1,6	77	CAYC (4,4 Volt)	4	12	05/10>
	1,6 TDI Sportback (8XA)	1,6	66	CAYB (4,4 Volt)	4	12	11/11>
	1,6 TDI Sportback (8XA)	1,6	77	CAYC (4,4 Volt)	4	12	11/11>
	2,0 TDI (8X1)	2,0	105	CFHD (4,4 Volt)	4	12	09/11>
A3	1.6 TDI (8P1)	1.6	66	CAYB(4,4 Volt)	4	12	05/09>
	1.6 TDI (8P1)	1.6	77	CAYC (4,4 Volt)	4	12	05/09>
	1.6 TDI (8P7) CABRIOLET	1.6	77	CAYC (4,4 Volt)	4	12	05/09>
	1.6 TDI (8PA) Sportback	1.6	66	CAYB (4,4 Volt)	4	12	05/09>
	1.6 TDI (8PA) Sportback	1.6	77	CAYC (4,4 Volt)	4	12	05/09>
	2,0 TDI (8PA) Sportback	2.0	125	BMN, CBBB, CFGB (4,4 Volt)	4	12	03/06>
	2,0 TDI (8PA) Sportback 16V	2.0	103	BKB, CBAB,CFFB (4,4 Volt)	4	12	09/04>
	2,0 TDI (8PA) Sportback 16V Quattro	2.0	103	BKB, CBAB,CFFB (4,4 Volt)	4	12	11/05>
	2,0 TDI (8PA) Sportback Quattro	2.0	125	BMN, CBBB, CFGB (4,4 Volt)	4	12	03/06>
	2,0 TDI (8X1)	2.0	100	AZV, CBAA, CFFA (4,4 Volt)	4	12	05/03>
	2,0 TDI (8X1)	2.0	125	BMN, CBBB, CFGB (4,4 Volt)	4	12	03/06>
	2,0 TDI (8X1) 16V	2.0	103	BKB, CBAB,CFFB (4,4 Volt)	4	12	05/03>
	2,0 TDI (8X1) 16V Quattro	2.0	103	BKB, CBAB,CFFB (4,4 Volt)	4	12	08/04>
	2,0 TDI (8X1) Quattro	2.0	125	BMN, CBBB, CFGB (4,4 Volt)	4	12	03/06>
	2,0 TDI Cabriolet	2.0	103	CBAB, CFFB (4,4 Volt)	4	12	04/08>
A4	2.0 TDI (8K2, B8)	2.0	88	CAGC, CJCC (4,4 Volt)	4	12	06/08>
	2.0 TDI (8K2, B8)	2.0	100	CAGB, CJCB (4,4 Volt)	4	12	11/07>
	2.0 TDI (8K2, B8)	2.0	105	CAGB, CJCB (4,4 Volt)	4	12	11/07>
	2.0 TDI (8K2, B8)	2.0	120	CAHB, CGLD (4,4 Volt)	4	12	08/08>
	2.0 TDI (8K2, B8)	2.0	125	CAHA (4,4 Volt)	4	12	01/08>
	2.0 TDI (8K2, B8)	2.0	130	CGLC, CMGB (4,4 Volt)	4	12	11/11>
	2.0 TDI (8K2, B8) quattro	2.0	105	CAGA, CJCA (4,4 Volt)	4	12	11/08>
	2.0 TDI (8K2, B8) quattro	2.0	125	CAHA (4,4 Volt)	4	12	01/08>
	2.0 TDI (8K2, B8) quattro	2.0	130	CGLC (4,4 Volt)	4	12	11/11>
	2.0 TDI (8K2, B8) quattro	2.0	125	CAHA (4,4 Volt)	4	12	04/09>

111 PHD 4,4 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
AUDI							
A4	2.0 TDI (8K2, B8) quattro	2.0	130	CGLC (4,4 Volt)	4	12	11/11>
	2.0 TDI (8K5, B8) AVANT	2.0	88	CAGC, CJCC (4,4 Volt)	4	12	06/08>
	2.0 TDI (8K5, B8) AVANT	2.0	100	CAGB, CJCB (4,4 Volt)	4	12	04/08>
	2.0 TDI (8K5, B8) AVANT	2.0	105	CAGA, CJCA, CMEA (4,4 Volt)	4	12	04/08>
	2.0 TDI (8K5, B8) AVANT	2.0	120	CAHB, CGLD (4,4 Volt)	4	12	08/08>
	2.0 TDI (8K5, B8) AVANT	2.0	125	CAHA (4,4 Volt)	4	12	04/08>
	2.0 TDI (8K5, B8) AVANT	2.0	130	CGLC (4,4 Volt)	4	12	11/11>
	2.0 TDI (8K5, B8) AVANT quattro	2.0	105	CAGA, CJCA, CMEA (4,4 Volt)	4	12	04/08>
	2.0 TDI (8K5, B8) AVANT quattro	2.0	125	CAHA (4,4 Volt)	4	12	08/08>
	2.0 TDI (8K5, B8) AVANT quattro	2.0	130	CGLC (4,4 Volt)	4	12	11/11>
	2.0 TDI (8KH, B8) Allroad quattro	2.0	100	CAGB, CJCB (4,4 Volt)	4	12	09/09>
	2.0 TDI (8KH, B8) Allroad quattro	2.0	105	CAGA, CJCA (4,4 Volt)	4	12	09/09>
	2.0 TDI (8KH, B8) Allroad quattro	2.0	120	CAHB, CGLD (4,4 Volt)	4	12	04/09>
	2.7 TDI (8EC, B7)	2.7	120	BSG (4,4 Volt)	6	12	01/05>06/08
	2.7 TDI (8EC, B7)	2.7	132	BPP (4,4 Volt)	6	12	01/06>06/08
	2.7 TDI (8ED, B7) AVANT	2.7	120	BSG (4,4 Volt)	6	12	11/05>03/08
	2.7 TDI (8H7,B6,8HE,B7)CABRIOLET	2.7	132	BPP (4,4 Volt)	6	12	06/06>03/09
	2.7 TDI (8K2, E8)	2.7	140	CAMA, CGKA (4,4 Volt)	6	12	11/07>
	2.7 TDI (8K5, B8) AVANT	2.7	120	CAMB, CGKB (4,4 Volt)	6	12	04/08>
	2.7 TDI (8K5, B8) AVANT	2.7	140	CAMA, CGKA (4,4 Volt)	6	12	04/08>
	3.0 TDI (8EC, B7) quattro	3.0	150	BKN (4,4 Volt)	6	12	11/04>06/08
	3.0 TDI (8EC, B7) quattro	3.0	171	ASB (4,4 Volt)	6	12	11/06>06/08
	3.0 TDI (8ED, B7) AVANT quattro	3.0	150	BKN (4,4 Volt)	6	12	11/04>06/08
	3.0 TDI (8ED, B7) AVANT quattro	3.0	171	ASB (4,4 Volt)	6	12	01/06>06/08
	3.0 TDI (8H7,B6,8HE,B7)CABRIOLET 4	3.0	150	BKN (4,4 Volt)	6	12	01/06>03/09
	3.0 TDI (8H7,B6,8HE,B7)CABRIOLET 4	3.0	171	ASB (4,4 Volt)	6	12	01/06>03/09
	3.0 TDI (8K2, B8) quattro	3.0	155	CCWB (4,4 Volt)	6	12	06/08>
	3.0 TDI (8K2, B8) quattro	3.0	176	CAPA, CCLA, CCWA (4,4 Volt)	6	12	11/07>
	3.0 TDI (8K2, B8) quattro	3.0	180	CDUC, CKVB (4,4 Volt)	6	12	11/11>
	3.0 TDI (8K2, E8)	3.0	150	CLAB (4,4 Volt)	6	12	11/11>
	3.0 TDI (8K5, B8) AVANT	3.0	150	CLAB (4,4 Volt)	6	12	11/11>
	3.0 TDI (8K5, B8) AVANT quattro	3.0	176	CAPA, CCLA, CCWA (4,4 Volt)	6	12	04/08>
	3.0 TDI (8K5, B8) AVANT quattro	3.0	180	CDUC, CKVB (4,4 Volt)	6	12	11/11>
	3.0 TDI (8KH, B8) Allroad quattro	3.0	176	CCWA (4,4 Volt)	6	12	04/09>
	3.0 TDI (8KH, B8) Allroad quattro	3.0	180	CDUC, CKVB (4,4 Volt)	6	12	01/12>
A5	2.0 TDI (8F7) CABRIOLET	2.0	125	CAHA (4,4 Volt)	4	12	05/09>
	2.0 TDI (8F7) CABRIOLET	2,0	130	CGLC (4,4 Volt)	4	12	10/11>
	2.0 TDI (8F7) CABRIOLET quattro	2,0	130	CGLC (4,4 Volt)	4	12	01/12>
	2.0 TDI (8T3)	2.0	125	CAHA (4,4 Volt)	4	12	08/08>
	2.0 TDI (8T3)	2,0	130	CGLC (4,4 Volt)	4	12	10/11>
	2.0 TDI (8T3) quattro	2.0	125	CAHA (4,4 Volt)	4	12	08/08>
	2.0 TDI (8T3) quattro	2,0	130	CGLC (4,4 Volt)	4	12	12/11>
	2.0 TDI (8TA) Sportback	2.0	105	CAGA, CJCA, CMEA (4,4 Volt)	4	12	09/09>
	2.0 TDI (8TA) Sportback	2.0	125	CAHA (4,4 Volt)	4	12	05/09>
	2.0 TDI (8TA) Sportback	2,0	130	CGLC (4,4 Volt)	4	12	10/11>
	2.0 TDI (8TA) Sportback quattro	2.0	125	CAHA (4,4 Volt)	4	12	09/09>
	2.0 TDI (8TA) Sportback quattro	2,0	130	CGLC (4,4 Volt)	4	12	12/11>
	2.7 TDI (8F7) CABRIOLET	2,7	140	CGKA (4,4 Volt)	6	12	03/09>
	2.7 TDI (8T3)	2,7	120	CAMB, CGKB (4,4 Volt)	6	12	09/07>
	2.7 TDI (8T3)	2,7	140	CAMA, CGKA (4,4 Volt)	6	12	06/07>
	2.7 TDI (8TA) Sportback	2,7	140	CGKA (4,4 Volt)	6	12	09/09>
	3,0 TDI (8FT) CABRIOLET	3,0	150	CLAB (4,4 Volt)	6	12	10/11>
	3,0 TDI (8FT) CABRIOLET quattro	3,0	176	CCWA (4,4 Volt)	6	12	03/09>
	3,0 TDI (8FT) CABRIOLET quattro	3,0	180	CDUC (4,4 Volt)	6	12	10/11>
	3,0 TDI (8T3)	3,0	150	CLAB (4,4 Volt)	6	12	10/11>

111 PHD 4,4 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
AUDI							
A5	3,0 TDI (8T3) quattro	3,0	155	CCWB (4,4 Volt)	6	12	03/08>
	3,0 TDI (8T3) quattro	3,0	176	CAPA, CCWA (4,4 Volt)	6	12	06/07>
	3,0 TDI (8T3) quattro	3,0	180	CDUC, CKVB (4,4 Volt)	6	12	10/11>
	3,0 TDI (8TA) Sportback	3,0	150	CLAB (4,4 Volt)	6	12	10/11>
	3,0 TDI (8TA) Sportback quattro	3,0	176	CCWA (4,4 Volt)	6	12	09/09>
	3,0 TDI (8TA) Sportback quattro	3,0	180	CDUC, CKVB (4,4 Volt)	6	12	10/11>
A6	2,0 TDI (4F2, C6)	2.0	100	CAGB (4,4 Volt)	4	12	07/04>03/11
	2,0 TDI (4F2, C6)	2.0	125	CAHA (4,4 Volt)	4	12	11/08>03/11
	2,0 TDI (4F5, C6) AVANT	2.0	100	CAGB (4,4 Volt)	4	12	06/05>08/11
	2,0 TDI (4F5, C6) AVANT	2.0	125	CAHA (4,4 Volt)	4	12	10/08>08/11
	2,0 TDI (4G2, C7)	2.0	120	CGLD (4,4 Volt)	4	12	03/11>
	2,0 TDI (4G2, C7)	2.0	130	CGLC, CMGB (4,4 Volt)	4	12	03/11>
	2,0 TDI (4G5, C7) AVANT	2.0	120	CGLD (4,4 Volt)	4	12	05/11>
	2,0 TDI (4G5, C7) AVANT	2.0	130	CGLC, CMGB (4,4 Volt)	4	12	05/11>
	2.7 TDI (4F2, C6)	2.7	120	BSG, CANB (4,4 Volt)	6	12	11/04>03/11
	2.7 TDI (4F2, C6)	2.7	132	BPP (4,4 Volt)	6	12	11/04>10/08
	2.7 TDI (4F2, C6)	2.7	140	CANA (4,4 Volt)	6	12	10/08>03/11
	2.7 TDI (4F2, C6) quattro	2.7	120	BSG, CAND (4,4 Volt)	6	12	06/05>03/11
	2.7 TDI (4F2, C6) quattro	2.7	132	BPP (4,4 Volt)	6	12	11/04>10/08
	2.7 TDI (4F2, C6) quattro	2.7	140	CANC (4,4 Volt)	6	12	10/08>03/11
	2.7 TDI (4F5, C6) AVANT	2.7	120	BSG, CANB (4,4 Volt)	6	12	03/05>08/11
	2.7 TDI (4F5, C6) AVANT	2.7	132	BPP (4,4 Volt)	6	12	03/05>10/08
	2.7 TDI (4F5, C6) AVANT	2.7	140	CANA (4,4 Volt)	6	12	10/08>08/11
	2.7 TDI (4F5, C6) AVANT quattro	2.7	120	BSG, CAND (4,4 Volt)	6	12	06/05>08/11
	2.7 TDI (4F5, C6) AVANT quattro	2.7	132	BPP (4,4 Volt)	6	12	03/05>10/08
	2.7 TDI (4F5, C6) AVANT quattro	2.7	140	CANC (4,4 Volt)	6	12	10/08>08/11
	2.7 TDI (4FH, C6) Allroad quattro	2.7	120	BSG, CAND (4,4 Volt)	6	12	05/06>
	2.7 TDI (4FH, C6) Allroad quattro	2.7	132	BPP (4,4 Volt)	6	12	05/06>
	2.7 TDI (4FH, C6) Allroad quattro	2.7	140	CANC (4,4 Volt)	6	12	10/08>
	3,0 TDI (4F2, C6) quattro	3.0	155	BNG, CDYB (4,4 Volt)	6	12	05/04>03/11
	3,0 TDI (4F2, C6) quattro	3.0	165	BMK (4,4 Volt)	6	12	05/04>05/06
	3,0 TDI (4F2, C6) quattro	3.0	171	ASB (4,4 Volt)	6	12	06/06>10/08
	3,0 TDI (4F2, C6) quattro	3.0	176	CDYA, CDYB (4,4 Volt)	6	12	10/08>03/11
	3,0 TDI (4F5, C6) AVANT quattro	3.0	155	BNG, CDYB (4,4 Volt)	6	12	03/05>08/11
	3,0 TDI (4F5, C6) AVANT quattro	3.0	165	BMK (4,4 Volt)	6	12	03/05>05/06
	3,0 TDI (4F5, C6) AVANT quattro	3.0	171	ASB (4,4 Volt)	6	12	06/06>10/08
	3,0 TDI (4F5, C6) AVANT quattro	3.0	176	CDYA, CDYB (4,4 Volt)	6	12	10/08>08/11
	3,0 TDI (4FH, C6) Allroad quattro	3.0	155	BNG, CDYB (4,4 Volt)	6	12	05/06>
	3,0 TDI (4FH, C6) Allroad quattro	3.0	171	ASB (4,4 Volt)	6	12	05/06>
	3,0 TDI (4FH, C6) Allroad quattro	3.0	176	CDYA (4,4 Volt)	6	12	10/08>
	3,0 TDI (4G2, C7)	3.0	150	CLAB (4,4 Volt)	6	12	11/10>
	3,0 TDI (4G2, C7) quattro	3.0	150	CLAA (4,4 Volt)	6	12	03/11>
	3,0 TDI (4G2, C7) quattro	3.0	180	CDUC, CDUD, CKVB (4,4 Volt)	6	12	03/11>
	3,0 TDI (4G2, C7) quattro	3.0	230	CGQB (4,4 Volt)	6	12	11/11>
	3,0 TDI (4G5, C7) AVANT	3.0	150	CLAB (4,4 Volt)	6	12	05/11>
	3,0 TDI (4G5, C7) AVANT quattro	3.0	150	CLAA (4,4 Volt)	6	12	05/11>
	3,0 TDI (4G5, C7) AVANT quattro	3.0	180	CDUC, CDUD, CKVB (4,4 Volt)	6	12	05/11>
	3,0 TDI (4G5, C7) AVANT quattro	3.0	230	CGQB (4,4 Volt)	6	12	11/11>
A7	3,0 TDI (4GA) Sportback	3.0	150	CLAB (4,4 Volt)	6	12	11/10>
	3,0 TDI (4GA, C6)Sportback quattro	3.0	150	CLAA (4,4 Volt)	6	12	12/10>
	3,0 TDI (4GA, C6)Sportback quattro	3.0	180	CDUC, CDUD, CKVB (4,4 Volt)	6	12	10/10>
	3,0 TDI (4GA, C6)Sportback quattro	3.0	230	CGQB (4,4 Volt)	6	12	11/10>
A8	3,0 TDI (4H)	3.0	150	CLAB (4,4 Volt)	6	12	09/11>
	3,0 TDI QUATTRO (4E)	3.0	155	BNG (4,4 Volt)	6	12	11/03>07/10
	3,0 TDI QUATTRO (4E)	3.0	171	ASB (4,4 Volt)	6	12	08/03>07/10

111 PHD 4,4 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
AUDI							
A8	3,0 TDI QUATTRO (4H)	3.0	155	CDTB (4,4 Volt)	6	12	08/10>
	3,0 TDI QUATTRO (4H)	3.0	184	CDTA, CMHA (4,4 Volt)	6	12	07/10>
	4.2 TDI quattro (4E)	4.2	235	BMC (4,4 Volt)	8	12	01/05>06/05
	4.2 TDI quattro (4E)	4.2	240	BVN (4,4 Volt)	8	12	07/05>07/10
	4.2 TDI quattro (4H)	4.2	258	CDSB (4,4 Volt)	8	12	11/09>
Q3	2,0 TDI	2,0	100	CFFA (4,4 Volt)	4	12	09/11>
	2,0 TDI	2,0	103	CFFB (4,4 Volt)	4	12	09/11>
	2,0 TDI quattro	2,0	103	CFFB (4,4 Volt)	4	12	01/12>
Q5	2.0 TDI (8R)	2.0	100	CJCB (4,4 Volt)	4	12	11/10>
	2.0 TDI (8R)	2.0	105	CJCA (4,4 Volt)	4	12	11/10>
	2.0 TDI (8R) quattro	2.0	105	CAGA, CJCA (4,4 Volt)	4	12	08/09>
	2.0 TDI (8R) quattro	2.0	125	CAHA, CGLB, CMGA (4,4 Volt)	4	12	11/08>
	3.0 TDI (8R) quattro	3.0	176	CCWA (4,4 Volt)	6	12	11/08>
Q7	3.0 TDi (4L)	3.0	155	BUN, CASB (4,4 Volt)	6	12	03/06>05/10
	3.0 TDi (4L)	3.0	165	CATA (4,4 Volt)	6	12	06/09>05/12
	3.0 TDi (4L)	3.0	171	BUG (4,4 Volt)	6	12	03/06>05/08
	3.0 TDi (4L)	3.0	176	CASA,CCMA,CJGA (4,4 Volt)	6	12	11/07>
	3.0 TDi (4L)	3.0	180	CJGD,CLZB,CRCA (4,4 Volt)	6	12	05/11>
	4.2 TDI (4L)	4,2	240	BTR (4,4 Volt)	8	12	03/07>06/09
	4.2 TDI (4L)	4,2	250	CCFA, CCFC (4,4 Volt)	8	12	05/09>
	4.2 TDI (4L)	6,0	368	CCGA (4,4 Volt)	12	12	09/08>
TT	2.0 TDI (8J3) quattro	2.0	125	CBBB, CFGB (4,4 Volt)	4	12	06/08>
	ROADSTER 2.0 TDI (8J9) quattro	2.0	125	CBBB, CFGB (4,4 Volt)	4	12	06/08>
PORSCHE							
CAYENNE	3,0 TDI (955)	3,0	155	MCR.CB (4,4 Volt)	6	12	06/10>
	3,0 TDI	3,0	176	M 05.9D (4,4 Volt)	6	12	02/09>
	3,0 TDI	3,0	176	M 05.9E (4,4 Volt)	6	12	06/10>
	3,0 TDI	3,0	180	MCR.CA (4,4 Volt)	6	12	06/11>
SEAT							
ALHAMBRA	2.0 TDI (710)	2.0	85	CFFE (4,4 Volt)	4	12	05/11>
	2.0 TDI (710)	2.0	100	CFFA (4,4 Volt)	4	12	06/10>05/11
	2.0 TDI (710)	2.0	103	CFFB (4,4 Volt)	4	12	06/10>
	2.0 TDI (710)	2.0	125	CFGB (4,4 Volt)	4	12	06/10>
	2.0 TDI (710) 4X4	2.0	103	CFFB (4,4 Volt)	4	12	05/11>
ALTEA	1.6 TDI (5P1)	1.6	77	CAYC (4,4 Volt)	4	12	10/09>
	2,0 TDI (5P1)	2,0	125	BMN, CEGA (4,4 Volt)	4	12	03/06>
	2,0 TDI (5P1) 16V	2,0	103	BKD, CFHC (4,4 Volt)	4	12	03/04>
	XL 1.6 TDI (5P5, 5P8)	1.6	77	CAYC (4,4 Volt)	4	12	10/09>
	XL 2,0 TDI (5P1, 5P8)	2,0	125	BMN, CEGA (4,4 Volt)	4	12	06/07>
	XL 2,0 TDI (5P1, 5P8) 16V	2,0	103	BKD, CFHC (4,4 Volt)	4	12	10/06>
	XL 2,0 TDI (5P1, 5P8) 4X4	2,0	125	BMN,CEGA,CFJA (4,4 Volt)	4	12	06/07>
EXEO	2.0 TDI (3R2)	2.0	105	CAGA, CJCA (4,4 Volt)	4	12	03/09>
	ST 2.0 TDI (3R5)	2.0	105	CAGA, CJCA (4,4 Volt)	4	12	06/09>
	2.0 TDI (3R2)	2.0	125	CAHA, CGLB (4,4 Volt)	4	12	03/09>
	ST 2.0 TDI (3R5)	2.0	125	CAHA, CGLB (4,4 Volt)	4	12	06/09>
IBIZA V	1,2 TDI (6J1) SPORTCOUPE'	1,2	55	CFWA (4,4 Volt)	3	12	05/10>
	1.6 TDI (6J5)	1.6	66	CAYB (4,4 Volt)	4	12	05/09>
	1.6 TDI (6J5)	1.6	77	CAYC, CLNA (4,4 Volt)	4	12	05/09>
	1.6 TDI (6J1) SPORTCOUPE'	1.6	66	CAYB (4,4 Volt)	4	12	05/09>
	1.6 TDI (6J1) SPORTCOUPE'	1.6	77	CAYC, CLNA (4,4 Volt)	4	12	05/09>
	1.6 TDI (6J1)	1,6	66	CAYB (4,4 Volt)	4	12	03/10>
	2,0 TDI (6J5)	2,0	105	CFHD (4,4 Volt)	4	12	01/10>
	2,0 TDI (6J1)	2,0	105	CFHD (4,4 Volt)	4	12	01/10>

111 PHD 4,4 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
SEAT							
LEON	1,6 TDI (1P1)	1,6	66	CAYB (4,4 Volt)	4	12	11/10>
	1,6 TDI (1P1)	1,6	77	CAYC (4,4 Volt)	4	12	02/10>
	2,0 TDI (1P1)	2,0	125	BMN, CEGA, CFJA (4,4 Volt)	4	12	05/06>
	2,0 TDI (1P1) 16V	2,0	103	BKD, CFHC, CLCB (4,4 Volt)	4	12	07/05>
TOLEDO III	2,0 TDI (5P2)	2.0	125	CEGA (4,4 Volt)	4	12	01/06>05/09
SKODA							
FABIA	1,6 TDI	1,6	55	CAYA (4,4 Volt)	4	12	04/10>
	1,6 TDI	1,6	66	CAYB (4,4 Volt)	4	12	03/10>
	1,6 TDI	1,6	77	CAYC (4,4 Volt)	4	12	03/10>
	1,6 TDI Combi	1,6	55	CAYA (4,4 Volt)	4	12	04/10>
	1,6 TDI Combi	1,6	66	CAYB (4,4 Volt)	4	12	03/10>
	1,6 TDI Combi	1,6	77	CAYC (4,4 Volt)	4	12	03/10>
OCTAVIA	1,6 TDI Combi (1Z5)	1,6	77	CAYC (4,4 Volt)	4	12	06/09>
	1,6 TDI Combi (1Z5) 4X4	1,6	77	CAYC (4,4 Volt)	4	12	06/09>
	1.6 TDI (1Z3)	1.6	77	CAYC (4,4 Volt)	4	12	06/09>
	2,0 TDI (1Z3) RS	2,0	125	BMN, CEGA (4,4 Volt)	4	12	04/06>
	2,0 TDI (IZ3)	2,0	81	CFHF, CLCA (4,4 Volt)	4	12	03/10>
	2,0 TDI (IZ3) 16V	2,0	103	BKD,CFHC, CLCB (4,4 Volt)	4	12	02/04>
	2,0 TDI Combi (1Z5)	2,0	81	CFHF, CLCA (4,4 Volt)	4	12	03/10>
	2,0 TDI Combi (1Z5) 16V	2,0	103	BKD,CFHC, CLCB (4,4 Volt)	4	12	02/04>
	2,0 TDI Combi (1Z5) 16V 4X4	2,0	103	CFHC (4,4 Volt)	4	12	05/10>
	2,0 TDI Combi (1Z5) RS	2,0	125	BMN, CEGA (4,4 Volt)	4	12	04/06>
ROOMSTER	1,2 TDI (5J)	1,2	55	CFWA (4,4 Volt)	3	12	03/10>
	1,2 TDI (5J) Praktic	1,2	55	CFWA (4,4 Volt)	3	12	03/10>
	1,6 TDI (5J)	1,6	66	CAYB (4,4 Volt)	4	12	03/10>
	1,6 TDI (5J)	1,6	77	CAYC (4,4 Volt)	4	12	03/10>
	1,6 TDI (5J) Praktic	1,6	66	CAYB (4,4 Volt)	4	12	03/10>
SUPERB	2,0 TDI 16V (3T4)	2.0	77	CAYC (4,4 Volt)	4	12	09/10>
	2.0 TDI (3T4)	2.0	125	CBBB, CFCB (4,4 Volt)	4	12	07/08>
	2.0 TDI (3T4) 16V	2.0	103	BKD,CFFB, CLJA (4,4 Volt)	4	12	01/09>
	2.0 TDI (3T4) 16V 4X4	2.0	103	CFFB (4,4 Volt)	4	12	11/10>
	2.0 TDI (3T4) 4X4	2.0	125	CBBB, CFGB (4,4 Volt)	4	12	09/08>
	2.0 TDI (3T5) 16V 4X4	2.0	103	CFFB (4,4 Volt)	4	12	11/10>
	2.0 TDI (3T5) 4X4	2.0	125	CBBB, CFGB (4,4 Volt)	4	12	10/09>
	2.0 TDI (3T5) SW	2.0	125	CBBB, CFGB (4,4 Volt)	4	12	10/09>
	2.0 TDI (3T5) SW 16V	2.0	103	BKD,CFFB, CLJA (4,4 Volt)	4	12	10/09>
YETI	1,6 TDI (5L)	1,6	77	CAYC (4,4 Volt)	4	12	11/10>
	2.0 TDI (5L)	2.0	81	CFHA, CLCA (4,4 Volt)	4	12	11/09>
	2.0 TDI (5L)	2.0	103	CFHC (4,4 Volt)	4	12	11/11>
	2.0 TDI (5L) 4X4	2.0	81	CFHF (4,4 Volt)	4	12	11/09>
	2.0 TDI (5L) 4X4	2.0	103	CBDB, CFHC, CLCB (4,4 Volt)	4	12	05/09>
	2.0 TDI (5L) 4X4	2.0	125	CEGA, CFJA (4,4 Volt)	4	12	11/09>
VOLKSWAGEN							
AMAROK	2,0 BiTDI	2,0	120	CDCA (4,4 Volt)	4	12	09/10>
	2,0 BiTDI 4motion	2,0	120	CDCA (4,4 Volt)	4	12	09/10>
	2,0 TDI	2,0	90	CDBA, CNFA (4 Volt)	4	12	09/10>
	2,0 TDI 4motin	2,0	90	CDBA, CNFA (4 Volt)	4	12	09/10>
BEETLE	1,6 TDI (5C1)	1,6	77	CAYC (4,4 Volt)	4	12	10/11>
	2,0 TDI (5C1)	2,0	103	CFFB, CJAA (4,4 Volt)	4	12	04/12>
CADDY III	1,6 TDI (2KA,2KH,2CA,2CH)	1,6	75	CAYD (4,4 Volt)	4	12	08/10>
	1,6 TDI (2KA,2KH,2CA,2CH)	1,6	55	CAYE (4,4 Volt)	4	12	08/10>
	1,6 TDI (2KB,2KJ,2CB,2CJ) SW	1,6	75	CAYD (4,4 Volt)	4	12	08/10>
	1,6 TDI (2KB,2KJ,2CB,2CJ) SW	1,6	55	CAYE (4,4 Volt)	4	12	08/10>
	1,6 TDI (2KB,2KJ,2CB,2CJ) SW	2,0	81	CLCA (4,4 Volt)	4	12	08/10>

111 PHD 4,4 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
VOLKSWAGEN							
CADDY III	1,6 TDI (2KB,2KJ,2CB,2CJ) SW	2,0	125	CFJA (4,4 Volt)	4	12	05/12>
	1,6 TDI (2KB,2KJ,2CB,2CJ) SW 16V	2,0	103	CFHC (4,4 Volt)	4	12	11/10>
	1,6 TDI (2KB,2KJ,2CB,2CJ) SW 16V 4motion	2,0	103	CFHC (4,4 Volt)	4	12	11/10>
	1,6 TDI (2KB,2KJ,2CB,2CJ) SW 4motion	2,0	81	CFHF (4,4 Volt)	4	12	08/10>
	2,0 TDI (2KA,2KH,2CA,2CH)	2,0	62	CFHE (4,4 Volt)	4	12	11/10>
	2,0 TDI (2KA,2KH,2CA,2CH)	2,0	81	CLCA (4,4 Volt)	4	12	08/10>
	2,0 TDI (2KA,2KH,2CA,2CH)	2,0	103	CFHC (4,4 Volt)	4	12	11/10>
	2,0 TDI (2KA,2KH,2CA,2CH)	2,0	125	CFJA (4,4 Volt)	4	12	05/12>
	2,0 TDI (2KA,2KH,2CA,2CH) 16V	2,0	103	CFHC (4,4 Volt)	4	12	11/10>
	2,0 TDI (2KA,2KH,2CA,2CH) 16v 4motion	2,0	103	CFHC (4,4 Volt)	4	12	11/10>
	2,0 TDI (2KA,2KH,2CA,2CH) 4motion	2,0	62	CFHE (4,4 Volt)	4	12	12/10>
	2,0 TDI (2KA,2KH,2CA,2CH) 4motion	2,0	81	CFHF (4,4 Volt)	4	12	08/10>
CC	2,0 TDI (358)	2,0	103	CFFB (4,4 Volt)	4	12	11/11>
	2,0 TDI (358)	2,0	125	CFGB, CLLA (4,4 Volt)	4	12	11/11>
CRAFTER	2,0 TDI 30-35 (2E) Autobus	2,0	105	CKUC (4,4 Volt)	4	12	10/11>
	2,0 TDI 30-35 (2E) Autobus	2,0	120	CKUB (4,4 Volt)	4	12	07/11>
	2,0 TDI 30-35 (2E) Autobus	2,0	100	CKTC (4,4 Volt)	4	12	05/11>
	2,0 TDI 30-35 (2E) Autobus	2,0	80	CKTB (4,4 Volt)	4	12	05/11>
	2,0 TDI 30-35 (2E) Autobus 4motion	2,0	120	CKUB (4,4 Volt)	4	12	11/11>
	2,0 TDI 30-50 (2E) Furgonato	2,0	105	CKUC (4,4 Volt)	4	12	10/11>
	2,0 TDI 30-50 (2E) Furgonato	2,0	120	CKUB (4,4 Volt)	4	12	07/11>
	2,0 TDI 30-50 (2E) Furgonato	2,0	100	CKTC (4,4 Volt)	4	12	05/11>
	2,0 TDI 30-50 (2E) Furgonato	2,0	80	CKTB (4,4 Volt)	4	12	05/11>
	2,0 TDI 30-50 (2E) Furgonato 4motion	2,0	120	CKUB (4,4 Volt)	4	12	11/11>
	2,0 TDI 30-50 (2E) Pianale piatto	2,0	105	CKUC (4,4 Volt)	4	12	10/11>
	2,0 TDI 30-50 (2E) Pianale piatto	2,0	120	CKUB (4,4 Volt)	4	12	07/11>
	2,0 TDI 30-50 (2E) Pianale piatto	2,0	100	CKTC (4,4 Volt)	4	12	05/11>
	2,0 TDI 30-50 (2E) Pianale piatto	2,0	80	CKTB (4,4 Volt)	4	12	05/11>
	2,0 TDI 30-50 (2E) Pianale piatto 4motion	2,0	120	CKUB (4,4 Volt)	4	12	11/11>
EOS	2,0 TDI (1F7, 1F8)	2,0	100	CFFA (4,4 Volt)	4	12	05/08>
	2,0 TDI (1F7, 1F8) 16V	2,0	103	CBAB, CFFB (4,4 Volt)	4	12	05/08>
GOLF IV	1.6 TDI Variant	1.6	77	CAYC	4	12	07/09>
GOLF V	2,0 TDI (1K1)	2,0	100	CBDA (4,4 Volt)	4	12	10/03>11/08
	2,0 TDI (1K5) Variant 16V	2,0	103	CBDB (4,4 Volt)	4	12	06/07>
GOLF VI	1,6 TDI (517) Cabriolet	1.6	77	CAYC (4,4 Volt)	4	12	03/11>
	1,6 TDI (5K1)	1.6	77	CAYC (4,4 Volt)	4	12	02/09>
	1,6 TDI (5K1)	1.6	66	CAYB (4,4 Volt)	4	12	02/09>
	1,6 TDI (AJ5) Variant	1.6	66	CAYB (4,4 Volt)	4	12	12/09>
	1,6 TDI (AJ5) Variant	1.6	77	CAYC (4,4 Volt)	4	12	07/09>
	1,6 TDI (AJ5) Variant 4motion	1,6	77	CAYC (4,4 Volt)	4	12	07/09>
	2,0 TDI (AJ5) Variant 16V	2,0	103	CBDB, CFHC (4,4 Volt)	4	12	07/09>
	2.0 TDI (517) Cabriolet	2.0	103	CFHC (4,4 Volt)	4	12	11/11>
	2.0 TDI (5K1)	2.0	81	CBDC, CLCA (4,4 Volt)	4	12	10/08>
	2.0 TDI (5K1)	2.0	103	CBAB, CFFB (4,4 Volt)	4	12	10/08>
	2.0 TDI (5K1)	2.0	125	CBBB, CFGB (4,4 Volt)	4	12	04/09>
	2.0 TDI (5K1)	2.0	100	CBAA, CFFA (4,4 Volt)	4	12	10/08>
	2.0 TDI (5K1) 4motin	2.0	103	CBAB, CFFB (4,4 Volt)	4	12	05/09>
GOLF PLUS	1,6 TDI (5M1, 521)	1,6	77	CAYC (4,4 Volt)	4	12	03/09>
	1,6 TDI (5M1, 521)	1,6	66	CAYB (4,4 Volt)	4	12	02/09>
	1,6 TDI (5M1, 521)	2.0	81	CBDC, CLCA (4,4 Volt)	4	12	01/09>
	1,6 TDI (5M1, 521)	2.0	100	BZW, CBDA, CFHB (4 Volt)	4	12	05/05>
	1,6 TDI (5M1, 521) 16V	2.0	103	BKD, CBDB, CFHC (4,4 Volt)	4	12	01/05>
JETTA III	1,6 TDI (1K2)	1,6	66	CAYB (4,4 Volt)	4	12	12/09>10/10
	1,6 TDI (1K2)	1,6	77	CAYC (4,4 Volt)	4	12	06/09>10/10

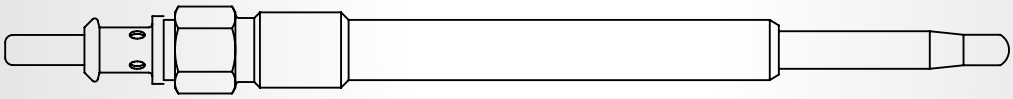
111 PHD 4,4 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
VOLKSWAGEN							
JETTA III	2,0 TDI (1K2)	2,0	125	BMN, CEGA (4,4 Volt)	4	12	10/06>10/10
	2,0 TDI (1K2)	2,0	100	CBDA (4,4 Volt)	4	12	09/05>10/10
	2,0 TDI (1K2) 16V	2,0	103	CBDB (4,4 Volt)	4	12	08/05>10/10
JETTA IV	1,6 TDI (162)	1,6	77	CAYC (4,4 Volt)	4	12	02/11>
	2,0 TDI (162)	2,0	81	CLCA (4,4 Volt)	4	12	02/11>
	2,0 TDI (162)	2,0	103	CFFB, CFHC, CJAA (4,4 Volt)	4	12	10/10>
MULTIVAN V	2,0 BiTDI (7HM/N/F,7EF/M/N)	2,0	132	CFCA (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7HM/N/F,7EF/M/N)	2,0	103	CAAC, CCHA (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7HM/N/F,7EF/M/N)	2,0	75	CAAB (4 Volt)	4	12	09/09>
	2,0 BiTDI (7HM/N/F,7EF/M/N)	2,0	62	CAA4 (4 Volt)	4	12	09/09>
	2,0 BiTDI (7HM/N/F,7EF/M/N) 4motion	2,0	132	CFCA (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7HM/N/F,7EF/M/N) 4motion	2,0	103	CAAC, CCHA (4,4 Volt)	4	12	09/09>
PASSAT	1,6 TDI (362)	1.6	77	CAYC (4,4 Volt)	4	12	08/10>
	1,6 TDI (365) Variant	1.6	77	CAYC (4,4 Volt)	4	12	08/10>
	1,6 TDI (3C2)	1.6	77	CAYC (4,4 Volt)	4	12	08/09>07/10
	1,6 TDI (3C5) Variant	1.6	77	CAYC (4,4 Volt)	4	12	08/09>11/10
	2,0 BlueTDI (3C2)	2,0	105	CBAC (4,4 Volt)	4	12	11/08>
	2,0 BlueTDI (3C5) Variant	2,0	105	CBAC (4,4 Volt)	4	12	01/09>
	2,0 TDI (362)	2,0	125	CFGB, CLLA (4,4 Volt)	4	12	08/10>
	2,0 TDI (362)	2,0	103	CFFB (4,4 Volt)	4	12	08/10>
	2,0 TDI (362)	2,0	100	CFFA (4,4 Volt)	4	12	08/10>
	2,0 TDI (362) 4motion	2,0	125	CFGB, CLLA (4,4 Volt)	4	12	08/10>
	2,0 TDI (362) 4motion	2,0	103	CFFB (4,4 Volt)	4	12	08/10>
	2,0 TDI (365) Variant	2,0	125	CFGB, CLLA (4,4 Volt)	4	12	08/10>
	2,0 TDI (365) Variant	2,0	103	CFFB (4,4 Volt)	4	12	08/10>
	2,0 TDI (365) Variant	2,0	100	CFFA (4,4 Volt)	4	12	08/10>
	2,0 TDI (365) Variant 4motion	2,0	125	CFGB, CLLA (4,4 Volt)	4	12	08/10>
	2,0 TDI (365) Variant 4motion	2,0	103	CFFB (4,4 Volt)	4	12	08/10>
	2,0 TDI (3C2)	2.0	100	BMA, CBAA (4,4 Volt)	4	12	03/05>
	2,0 TDI (3C2)	2,0	81	CBDC (4,4 Volt)	4	12	11/08>07/10
	2,0 TDI (3C2)	2,0	125	BMR, CBBB (4,4 Volt)	4	12	08/05>
	2,0 TDI (3C2)	2,0	100	CEGA (4,4 Volt)	4	12	03/05>11/10
	2,0 TDI (3C2) 16V	2.0	103	BKP, CBAB (4,4 Volt)	4	12	03/05>
	2,0 TDI (3C2) 16V	2,0	103	CBAB (4,4 Volt)	4	12	03/05>
	2,0 TDI (3C2) 16V 4motion	2,0	103	CBAB (4,4 Volt)	4	12	03/05>
	2,0 TDI (3C2) 4motion	2,0	125	BMR, CBBB (4,4 Volt)	4	12	05/09>
	2,0 TDI (3C5) Variant	2,0	81	CBDC (4,4 Volt)	4	12	11/08>11/10
	2,0 TDI (3C5) Variant	2,0	100	CBAA (4,4 Volt)	4	12	08/05>11/10
	2,0 TDI (3C5) Variant	2,0	125	BMR, CBBB (4,4 Volt)	4	12	08/05>
	2,0 TDI (3C5) Variant 16V	2,0	103	CBAB (4,4 Volt)	4	12	08/05>
	2,0 TDI (3C5) Variant 16V 4motion	2,0	103	CBAB (4,4 Volt)	4	12	08/05>
	2,0 TDI (3C5) Variant 4motion	2,0	125	CBBB (4,4 Volt)	4	12	05/09>
	CC 2,0 BlueTDI (357)	2,0	105	CBAC (4,4 Volt)	4	12	05/09>11/10
	CC 2,0 TDI (357)	2,0	100	CBAA, CFFA (4,4 Volt)	4	12	06/08>05/11
	CC 2,0 TDI (357)	2,0	125	CBBB, CFGB, CLLA (4,4 Volt)	4	12	06/08>
	CC 2,0 TDI (357)	2,0	103	CBAB, CFFB (4,4 Volt)	4	12	06/08>
	CC 2,0 TDI (357)	2,0	120	CBBA (4,4 Volt)	4	12	05/08>11/08
	CC 2,0 TDI (357)	2,0	103	CBAB, CFFB (4,4 Volt)	4	12	08/09>
	CC 2,0 TDI (357) 4motion	2,0	125	CBBB, CFGB, CLLA (4,4 Volt)	4	12	11/09>
PHAETON	3,0 TDI 4MOTION V6 (3D2)	3.0	165	BMK (4,4 Volt)	6	12	09/04>
	3,0 TDI 4MOTION V6 (3D2)	3.0	176	CARB, CEXA (4,4 Volt)	6	12	11/08>
	3.0 TDI 4MOTION (3D2) V6	3.0	171	CARA (4,4 Volt)	6	12	06/07>
POLO	1,2 TDI (6R)	1,2	55	CFWA (4,4 Volt)	3	12	10/09>
	1.6 TDI (6R_)	1.6	66	CAYB (4,4 Volt)	4	12	06/09>

111 PHD 4,4 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
VOLKSWAGEN							
POLO	1.6 TDI (6R_)	1.6	55	CAYA (4,4 Volt)	4	12	06/09>
	1.6 TDI (6R_)	1.6	77	CAYC (4,4 Volt)	4	12	06/09>
SCIROCCO	2,0 TDI (137)	2,0	100	CFHB (4,4 Volt)	4	12	11/10>
	2,0 TDI (137)	2,0	103	CBDB, CFHC (4,4 Volt)	4	12	08/08>
	2,0 TDI (137)	2,0	125	CBBB, CFGB (4,4 Volt)	4	12	05/09>
SHARAN	2,0 TDI (7N)	2,0	85	CFFE (4,4 Volt)	4	12	11/11>
	2,0 TDI (7N)	2,0	125	CFGB (4,4 Volt)	4	12	08/10>
	2,0 TDI (7N)	2,0	103	CFFB (4,4 Volt)	4	12	05/10>
	2,0 TDI (7N) 4motion	2,0	103	CFFB (4,4 Volt)	4	12	05/11>
	2,0 TDI (7N) 4motion	2,0	100	CFFA (4,4 Volt)	4	12	05/11>
TIGUAN	2.0 TDI (5N)	2.0	81	CFFD (4,4 Volt)	4	12	05/10>
	2.0 TDI (5N)	2.0	103	CBAB, CFFB (4,4 Volt)	4	12	03/08>
	2.0 TDI (5N) 4motion	2.0	120	CBBA (4,4 Volt)	4	12	02/08>08/09
	2.0 TDI (5N) 4motion	2.0	100	CBAA, CFFA (4,4 Volt)	4	12	11/07>
	2.0 TDI (5N) 4motion	2.0	125	CBBB, CFGB (4,4 Volt)	4	12	09/07>
	2.0 TDI (5N) 4motion	2.0	103	CBAB, CFFB, CLJA (4,4 Volt)	4	12	09/07>
TOUAREG	3,0 TDI V6 (7LA, 7L6, 7L7)	3.0	176	CASA, CASC (4,4 Volt)	6	12	11/07>05/10
	3,0 TDI V6 (7LA, 7L6, 7L7)	3.0	165	BKS, CATA (4,4 Volt)	6	12	11/04>05/10
	3,0 TDI V6 (7P5)	3.0	176	CASA, CNRB (4,4 Volt)	6	12	01/10>
	3,0 TDI V6 (7P5)	3.0	150	CASD, CJMA (4,4 Volt)	6	12	01/10>
	4,2 TDI V6 (7P5)	4,2	250	CKDA (4,4 Volt)	8	12	01/10>
TOURAN	1,6 TDI (1T1, 1T2)	1,6	77	CAYC (4,4 Volt)	4	12	04/10>05/10
	1,6 TDI (1T1, 1T2)	2,0	125	BMN, CFJA (4,4 Volt)	4	12	12/05>05/10
	1,6 TDI (1T3)	1,6	66	CAYB (4,4 Volt)	4	12	05/10>
	2,0 TDI (1T3)	2,0	81	CLCA (4,4 Volt)	4	12	11/10>
TRANSPORTER V	2,0 (7HA/H,7EA/H) Furgonato	2,0	103	CAAC, CCHA (4,4 Volt)	4	12	09/09>
	2,0 (7HA/H,7EA/H) Furgonato	2,0	75	CAAB (4,4 Volt)	4	12	09/09>
	2,0 (7HA/H,7EA/H) Furgonato	2,0	62	CAAA (4,4 Volt)	4	12	09/09>
	2,0 (7HA/H,7EA/H) Furgonato 4motion	2,0	103	CAAC, CCHA (4,4 Volt)	4	12	09/09>
	2,0 (7JD/E/L/Z) Pianale piatto	2,0	103	CAAC (4,4 Volt)	4	12	09/09>
	2,0 (7JD/E/L/Z) Pianale piatto	2,0	75	CAAB (4,4 Volt)	4	12	09/09>
	2,0 (7JD/E/L/Z) Pianale piatto	2,0	62	CAAA (4,4 Volt)	4	12	09/09>
	2,0 (7JD/E/L/Z) Pianale piatto 4motion	2,0	103	CAAC (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7HA/H,7EA/H) Furgonato	2,0	132	CFCA (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7HA/H,7EA/H) Furgonato 4motion	2,0	132	CFCA (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7HB/J,7EB/F/J) Autobus	2,0	132	CFCA (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7HB/J,7EB/F/J) Autobus	2,0	103	CAAC, CCHA (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7HB/J,7EB/F/J) Autobus	2,0	75	CAAB (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7HB/J,7EB/F/J) Autobus	2,0	62	CAAA (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7HB/J,7EB/F/J) Autobus 4motion	2,0	132	CFCA (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7HB/J,7EB/F/J) Autobus 4motion	2,0	103	CAAC, CCHA (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7JD/E/L/Z) Pianale piatto	2,0	132	CFCA (4,4 Volt)	4	12	09/09>
	2,0 BiTDI (7JD/E/L/Z) Pianale piatto 4motion	2,0	132	CFCA (4,4 Volt)	4	12	09/09>

104 PHD (Ex 833 PHD) 5,0 V

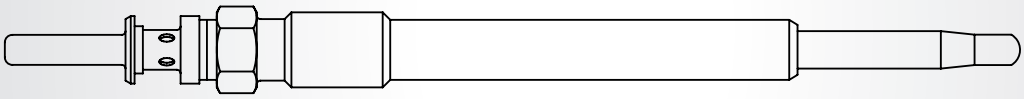


ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
104 PHD (Ex 833 PHD)	30	80	131	10	M10X1	4	5,0	3	63	5

Suitable to:
BERU
GE 104
0 100 266 005
0 100 266 010
CHAMPION
CH704
DENSO
DG-192
MARELLI
UC04F
MERCEDES
000 159 51 01
A 001 159 51 01

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
MERCEDES							
C 30 CDI	3,0 CDI AMG (W203) (203.018)	3.0	170	OM 612.990 (5,0 Volt)	5	12	01/03>02/07
C 30 CDI	3,0 CDI C30 AMG Sportcoupè (CL203)	3.0	170	OM 612.990 (5,0 Volt)	5	12	09/02>06/11
C 30 CDI	3,0 CDI T-model AMG (S203) (203.218)	3.0	170	OM 612.990 (5,0 Volt)	5	12	01/03>08/07

110 PHD 5,0 V



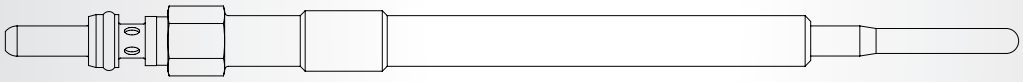
ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
110 PHD	29	77	134	10	M10X1	4	5,0	3	63	5

Suitable to:
BERU
GE 103
0 100 266 003
BMW
77 88 957
12 23 7 788 957
CHAMPION
CH703
DENSO
DG-191

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
BMW							
740 D, TD	4,0 TD (E65, E66)	4,0	190	M67N398D1 **(5,0 Volt)**	8	12	10/02->
745 D	4,5 D (E65, E66)	4,5	220	**(5,0 Volt)**	8	12	03/05->08/05
745 D	4,5 D (E65, E66)	4,5	242	**(5,0 Volt)**	8	12	07/05->

137 PHD 4,4 V

NEW



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
137 PHD	27,5	85	134	8	M8X1	4	4,4	3	93	4

Suitable to:
BOSCH
GLP144
0 250 403 001
NGK
DP74
Y-8008AS

Suitable to:
FORD
8653880
VOLVO
8653880

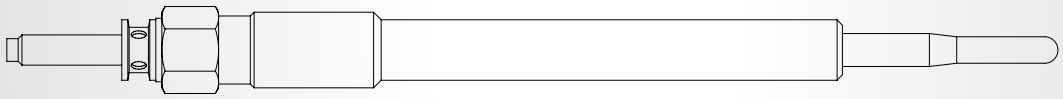
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
VOLVO							
C 30	D5	2.4	120	D 5244 T9 (4,4 Volt)	5	12	10/06>
	D5	2.4	132	D 5244 T13, T8 (4,4 Volt)	5	12	10/06>
C 70 II	Cabriolet D5	2.4	132	D 5244 T13, T8 (4,4 Volt)	5	12	03/06>
S 40 II	2.4 D5 (MS)	2.4	132	D 5244 T8 (4,4 Volt)	5	12	03/06>
S 60	2,4 D	2.4	93	D 5244 T7 (4,4 Volt)	5	12	09/05>04/10
	2.4 D	2.4	120	D 5244 T5 (4,4 Volt)	5	12	09/05>01/09
	2.4 D5	2.4	136	D 5244 T4 (4,4 Volt)	5	12	09/05>04/10
S 60 II	D3	2,0	120	D 5204 T2, T3 (4,4 Volt)	5	12	04/10>
	D3	2,0	100	D 5204 T7 (4,4 Volt)	5	12	05/12>
	D4	2,0	120	D 5204 T3 (4,4 Volt)	5	12	05/12>
	D5	2.4	151	D 5244 T10 (4,4 Volt)	5	12	04/10>
	D5	2.4	158	D 5244 T11, T15 (4,4 Volt)	5	12	06/11>
	D5 AWD	2.4	151	D 5244 T10 (4,4 Volt)	5	12	04/10>
	D5 AWD	2.4	158	D 5244 T11, T15 (4,4 Volt)	5	12	06/11>
S 80 II	2.4 D (AS)	2.4	120	D 5244 T, T5 (4,4 Volt)	5	12	03/06>
	D3 (AS)	2.4	120	D 5244 T, T5 (4,4 Volt)	5	12	01/10>
	D5 (AS)	2.4	136	D 5244 T4 (4,4 Volt)	5	12	03/06>
	D5 AWD (AS)	2.4	136	D 5244 T4 (4,4 Volt)	5	12	01/07>
V 50	2.4 D5 (MW)	2.4	132	D 5244 T13, T8 (4,4 Volt)	5	12	03/06>
	2.4 Tdi (MW)	2.4	120	D 5244 T9 (4,4 Volt)	5	12	05/07>
V 60	2,4 D5	2,4	158	D 5244 T11, T15 (4,4 Volt)	5	12	09/10>
	2,4 D5 AWD	2,4	158	D 5244 T11, T15 (4,4 Volt)	5	12	09/10>
	D3	2,0	100	D 5204 T7 (4,4 Volt)	5	12	12/12>
	D3	2,0	120	D 5204 T2, T3 (4,4 Volt)	5	12	09/10>
	D5	2,0	120	D 5244 T17 (4,4 Volt)	5	12	12/12>
	D5	2.4	151	D 5244 T10 (4,4 Volt)	5	12	09/10>
	D5 AWD	2.4	151	D 5244 T10 (4,4 Volt)	5	12	09/10>
V 70 II	2.4 D SW (P80_)	2.4	93	D 5244 T7 (4,4 Volt)	5	12	05/05>08/07
	2.4 D5 AWD (P80_)	2.4	136	D 5244 T4 (4,4 Volt)	5	12	12/05>08/07
	2.4 SW D5 (P80_)	2.4	136	D 5244 T4 (4,4 Volt)	5	12	12/05>08/07
	2.4 SW D5 (P80_)	2.4	120	D 5244 T, T5 (4,4 Volt)	5	12	08/01>08/07
V 70 III	2.4 D SW	2.4	129	D 5244 T14 (4,4 Volt)	5	12	10/09>
	2.4 D SW	2.4	120	D 5244 T5 (4,4 Volt)	5	12	08/07>
	D5 AWD SW	2.4	158	D 5244 T11, T15 (4,4 Volt)	5	12	06/11>

137 PHD 4,4 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
VOLVO							
V 70 III	D5 AWD SW	2.4	136	D 5244 T4 (4,4 Volt)	5	12	10/07>
	D5 SW	2.4	158	D 5244 T11, T15 (4,4 Volt)	5	12	06/11>
	D5 SW	2.4	136	D 5244 T4 (4,4 Volt)	5	12	08/07>
XC60	2.4 D AWD	2.4	120	D 5244 T16, T17, T5 (4,4 Volt)	5	12	05/08>
	D5 AWD	2.4	136	D 5244 T4 (4,4 Volt)	5	12	05/08>
XC 70	2.4 D5 AWD CROSS COUNTRY	2.4	136	D 5244 T4 (4,4 Volt)	5	12	12/05>
XC 70 II	2.4 D	2.4	129	D 5244 T14 (4,4 Volt)	5	12	01/10>
	2.4 D AWD	2.4	120	D 5244 T16, T5 (4,4 Volt)	5	12	08/07>
	D3 AWD	2,0	120	D 5204 T2 (4,4 Volt)	5	12	08/11>
	D5 AWD	2.4	136	D 5244 T4 (4,4 Volt)	5	12	08/07>
	D5 AWD	2.4	158	D 5244 T11, T15 (4,4 Volt)	5	12	06/11>
XC 90	D5	2.4	147	D 5244 T18 (4,4 Volt)	5	12	01/11>
	D5	2.4	120	D 5244 T5 (4,4 Volt)	5	12	04/09>
	D5	2.4	136	D 5244 T4 (4,4 Volt)	5	12	05/06>

138 PHD 5,0 V

NEW



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
138 PHD	28,5	90	139	10	M10X1,25	M4	5,0	3	93	4,4

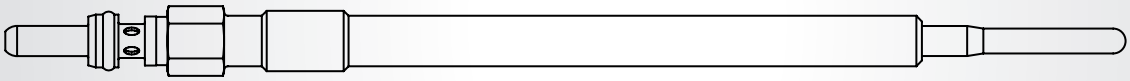
Suitable to:
ASHIKA
01-0H-H04
MARELLI
UY15A
NGK
Y-1003AS

Suitable to:
HYUNDAI
36710-2F100
36710-2F100 QQH
KIA
36710-2F100
36710-2F100 QQH

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
HYUNDAI							
Ix35	2,0 (LM) CRDi	2.0	100	D4HA (5 Volt)	4	12	01/10>
	2,0 (LM) CRDi 4X4	2.0	100	D4HA (5 Volt)	4	12	01/10>
	2,0 (LM) CRDi AWD	2,0	135	D4HA (5 Volt)	4	12	01/10>
SANTA FE II	2,0 (CM) CRDi	2,0	110	D4HA (5 Volt)	4	12	12/10>
	2,0 (CM) CRDi 4x4	2,0	110	D4HA (5 Volt)	4	12	12/10>
KIA							
SORENTO	2,0 CRDI(XM)	2,0	110	D4HA (5 Volt)	4	12	11/10>
	2,0 CRDI (XM) 4WD	2,0	110	D4HA (5 Volt)	4	12	11/10>
	2,2 CRDI (XM)	2,2	145	D4HB (5 Volt)	4	12	11/09>
	2,2 CRDI (XM) 4WD	2,0	145	D4HB (5 Volt)	4	12	11/09>
SPORTAGE	2,0 CRDi (SL)	2,0	100	D4HA (5 Volt)	4	12	07/10>
	2,0 CRDi (SL)	2,0	135	D4HA (5 Volt)	4	12	08/10>

112 PHD 4,4 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
112 PHD	27	100	148,5	8	M8X1	4	4,4	3	93	4

Suitable to:
BERU
0 100 226 011
0 100 266 007
0 100 266 011
0 100 266 045
GE 105
BOSCH
GLP197
GLP202
202

Suitable to:
BOSCH
0 250 403 006
0 250 403 008
CHAMPION
CH709
CHRYSLER
0 517 5756 AA
DELPHI
HDS 423

Suitable to:
DENSO
DG-194
HKT
CE-013
01-00-013
JEEP
0517 5756 AA
MERCEDES
000 159 50 01

Suitable to:
MERCEDES
001 159 50 01
001 159 71 01
A 001 159 50 01
A 001 159 71 01
NGK
DP51
Y-8002AS

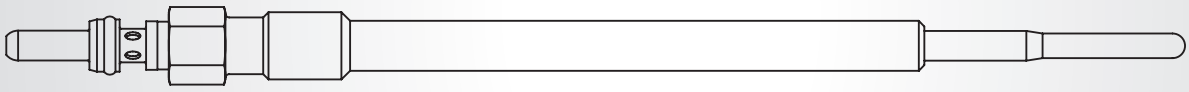
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
CHRYSLER							
300 C	3,0 CRD	3,0	160	M664 (4,4 Volt)			09/05>
	3,0 CRD Touring	3,0	160	M664 (4,4 Volt)			09/05>12/10
GRAND CHEROKEE III	3,0 CRD (WH)	3,0	160	EXL (4,4 Volt)			06/05>12/10
	3,0 CRD (WH)	3,0	155	EXL (4,4 Volt)			05/06>12/10
JEEP							
300 C	3.0 CRD	3.0	160	M664 (4,4 Volt)	6	12	09/05>
	3.0 CRD TOURING	3.0	160	M664 (4,4 Volt)	6	12	09/05>
GRAND CHEROKEE III	3,0 CRD (WH)	3,0	160	EXL (4,4 Volt)			06/05>12/10
	3,0 CRD (WH)	3,0	155	EXL (4,4 Volt)			05/06>12/10
MERCEDES							
A CLASS	A 2.0 160 CDI (W169)	2.0	60	OM 640.942 (4,4 Volt)	4	12	09/04>06/12
	A 2.0 180 CDI (W169)	2.0	80	OM 640.940 (4,4 Volt)	4	12	09/04>06/12
	A 2.0 200 CDI (W169)	2.0	103	OM 640.941 (4,4 Volt)	4	12	09/04>06/12
B CLASS	B 2.0 180 CDI (W245)	2.0	80	OM 640.940 (4,4 Volt)	4	12	03/05>11/11
	B 2.0 200 CDI (W245)	2.0	103	OM 640.941 (4,4 Volt)	4	12	03/05>11/11
C 320	3.0 C 320 CDI (W203)	3.0	165	OM 642.910 (4,4 Volt)	6	12	01/05>02/07
	3.0 C 320 CDI (W204)	3.0	165	OM 642.960 (4,4 Volt)	6	12	01/07>
	3.0 C 320 CDI (W204) 4-matic	3.0	165	OM 642.960 (4,4 Volt)	6	12	01/07>
	3.0 C 320 CDI (S203) T-Model	3.0	165	OM 642.910 (4,4 Volt)	6	12	06/05>08/07
	3.0 C 320 CDI (S204) T-Model	3.0	165	OM 642.960 (4,4 Volt)	6	12	08/07>
	3.0 C 320 CDI (S204) T-Model 4-matic	3.0	165	OM 642.961 (4,4 Volt)	6	12	08/07>
C 350	C 350 CDI	3.0	165	OM 642.960 (4,4 Volt)	6	12	07/09>
	C 350 CDI 4-MATIC	3.0	165	OM 642.961 (4,4 Volt)	6	12	07/09>
CLK 320	3.0 CDI (C209)	3.0	165	OM 642.910 (4,4 Volt)	6	12	01/05>05/09
CLK 350	3,0 CDI (A209)	3,0	165	OM 642.910 (4,4 Volt)	6	12	03/05>03/10
CLS 320	3.0 CDI (C219)	3.0	165	OM 642.920 (4,4 Volt)	6	12	01/05>12/10
CLS 350	3.0 CDI (C219)	3.0	165	OM 642.920 (4,4 Volt)	6	12	04/09>12/10
E 280	E 280 CDI (W211)	3.0	140	OM 642.920 (4,4 Volt)	6	12	03/05>12/08
	E 280 CDI (W211)	3.0	140	OM 642.921 (4,4 Volt)	6	12	03/05>12/08
E 280 T MODEL	E 280 T CDI (S211)	3.0	140	OM 642.920 (4,4 Volt)	6	12	03/05>07/09
	E 280 T CDI (S211) 4-matic	3.0	140	OM 642.921 (4,4 Volt)	6	12	03/05>07/09
E 320	3.0 CDI (W211)	3.0	165	OM 642.910 (4,4 Volt)	6	12	03/05>12/08

112 PHD 4,4 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
MERCEDES							
E 320 T-MODEL	3.0 T CDI (S211)	3.0	165	OM 642.920 (4,4 Volt)	6	12	03/05>07/09
	3.0 T CDI (S211) 4-MATIC	3.0	165	OM 642.920 (4,4 Volt)	6	12	03/05>07/09
E 420	4.0 CDI (W211)	8	231	OM 629.910 (4,4 Volt)	8	12	01/06>12/08
GL 320	3.0 GL 320 CDI (X164)	3.0	165	OM 642.822 (4,4 Volt)	6	12	09/06>05/09
GL 350	3,0 GL 350 CDI (X164)	3,0	165	OM 642.940 (4,4 Volt)	6	12	05/09>
	3,0 GL 350 CDI (X164) BlueTEC	3,0	155	OM 642.820 (7 Volt)	6	12	12/09>
GL 420	GL 420 CDI (X164)	4.0	225	OM 629.912 (4,4 Volt)	8	12	09/06>05/09
GL 450	GL 450 CDI (X164)	4,0	225	OM 629.912 (4,4 Volt)	8	12	05/09>
GLK 320	3.0 GLK 320 CDI (X204)	3.0	165	OM 642.961 (4,4 Volt)	6	12	06/08>
ML 280	3.0 ML CDI (W164) 4-MATIC	3.0	140	OM 642.940 (4,4 Volt)	6	12	07/05>07/09
ML 300	ML300 CDI (W164) 4-MATIC	3.0	140	OM 642.940 (4,4 Volt)	6	12	07/09>
ML 320	3.0 ML CDI (W164)	3.0	165	OM 642.940 (4,4 Volt)	6	12	07/05>0709
ML 350	ML 350 CDI (W-164) 4-MATIC	3.0	165	OM 642.940 (4,4 Volt)	6	12	07/09>
ML 420	4.0 ML CDI (W164)	4.0	225	OM 629.912 (4,4 Volt)	8	12	09/09>
ML 450	4,0 ML CDI (W164)	4,0	225	OM 629.912 (4,4 Volt)	8	12	09/09>
R 280	3.0 R 280 CDI (W251, V251)	3.0	140	OM 642.870,872,950 (4,4 Volt)	6	12	05/06>
	3.0 R 280 CDI (W251, V251) 4-MATIC	3.0	140	OM 642.950 (4,4 Volt)	6	12	05/06>
R 300	R 300 CDI 4.MATIC	3.0	140	OM 642.950 (4,4 Volt)	6	12	07/09>
R 320	3.0 R 320 CDI (W251)	3.0	165	OM 642.950 (4,4 Volt)	6	12	01/06>
R 350	R 350 CDI 4-MATIC	3.0	165	OM 642.950 (4,4 Volt)	6	12	07/09>
S 320 CDI	3.0 CDI (W221)	3.0	173	OM 642.930 (4,4 Volt)	6	12	12/05>
	3.0 CDI (W221) 4-MATIC	3.0	173	OM 642.932 (4,4 Volt)	6	12	10/06>
S 420	4.0 S 420 CDI (W221)	4.0	235	OM 629.911 (4,4 Volt)	8	12	10/06>
SPRINTER	218 CDI (906)	3.0	135	OM 642.992 (4,4 Volt)	6	12	06/06>
	219 CDI (906)	3.0	140	OM 642.992 (4,4 Volt)	6	12	03/09>
	318 CDI (906)	3.0	135	OM 642.896,992,993 (4,4 Volt)	6	12	06/06>
	318 CDI (906) 4X4	3.5	135	OM 642.896,992,993 (4,4 Volt)	6	12	02/08>
	319 CDI 4X4 (906)	3.5	140	OM 642.992 (4,4 Volt)	6	12	03/09>
	319 CDI (906)	3.0	140	OM 642.896,898,992 (4,4 Volt)	6	12	03/09>
VIANO	3.0 CDI (W639)	3.0	150	OM 642.990 (4,4 Volt)	6	12	03/06>
VITO	3.0 120 CDI (W639) Autobus	3.0	150	OM 642.990 (4,4 Volt)	6	12	09/07>
	3.0 120 CDI (W639) Furgonato	3.0	150	OM 642.990 (4,4 Volt)	6	12	09/07>

140 PHD 4,4 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
140 PHD	34,5	100	156	9	M9X1	4	4,4	3	93	4

Suitable to:
BERU
0 100 226 034
0 100 266 024
0 100 266 034
GE 114
BOSCH
GLP196
0 250 403 005
0 250 403 011

Suitable to:
DELPHI
HDS449
MARELLI
UY10A
NGK
Y-9003AS
FIAT
55200755

Suitable to:
G.M.
55 564 162
93 191 771
OPEL GM
12 14 334
93 191 771
SAAB
93178047
93191771

Suitable to:
SUZUKI
18550-79J81
18550-79J81 000
VM
46 07 2016F

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
ALFA ROMEO							
ALFA 159	2.0 JTDM	2.0	100	939 B4.000 (4,4 Volt)	4	12	06/10>11/11
	2.0 JTDM	2.0	125	939 B3.000 (4,4 Volt)	4	12	05/09>11/11
	2.0 JTDM Sportwagon	2.0	100	939 B4.000 (4,4 Volt)	4	12	06/10>11/11
	2.0 JTDM Sportwagon	2.0	125	939 B3.000 (4,4 Volt)	4	12	05/09>11/11
BRERA	2.0 JTDM	2.0	125	939 B3.000 (4,4 Volt)	4	12	05/09>
GIULIETTA	1.6 JTDM (940)	1.6	77	940 A3.000 (4,4 Volt)	4	12	04/10>
	2.0 JTDM (940)	2.0	125	940 A4.000 (4,4 Volt)	4	12	04/10>
MITO	1.6 JTDM (955)	1.6	85	955 A4.000 (4,4 Volt)	4	12	09/08>
	1.6 JTDM (955)	1.6	88	198 A2.000; 955 A3.000 (4,4 Volt)	4	12	04/07>
SPIDER	2.0 JTDM (939)	2.0	125	939 B3.000	4	12	05/09>
FIAT							
BRAVA / BRAVO	Van (198) 1.6 Multijet	2.0	77	198 A3.000 (4,4 Volt)	4	12	03/08>
BRAVO II	1.6 D Multijet (198)	1.6	66	198 A6.000 (4,4 Volt)	4	12	03/08>
	1.6 D Multijet (198)	1.6	77	198 A3.000 (4,4 Volt)	4	12	03/08>
	1.6 D Multijet (198)	1.6	85	955 A4.000 (4,4 Volt)	4	12	11/08>
	1.6 D Multijet (198)	1.6	88	198 A2.000 (4,4 Volt)	4	12	03/08>
	2.0 D Multijet (198)	2.0	120	844 A2.000 (4,4 Volt)	4	12	09/08>
	2.0 D Multijet (198)	2.0	121	198 A5.000	4	12	09/08>
DOBLO	1.6 D 16V Multijet	1.6	66	263 A4.000 (4,4 Volt)	4	12	02/10>
	1.6 D 16V Multijet	1.6	77	198 A3.000 (4,4 Volt)	4	12	02/10>
	1.6 D 16V Multijet	1.6	51	198 A3.000 (4,4 Volt)	4	12	02/10>
	2.0 D Multijet (263)	2.0	99	263 A1.000	4	12	02/10>
	CARGO 1,6 D (263) Multijet	1,6	66	263 A4.000 (4,4 Volt)	4	12	02/10>
	CARGO 1,6 D (263) Multijet	1,6	74	198 A3.000 (4,4 Volt)	4	12	02/10>
	CARGO 1,6 D (263) Multijet	1,6	77	198 A3.000 (4,4 Volt)	4	12	02/10>
	CARGO 1,6 D (263) Multijet Pianale piatto	1,6	66	263 A4.000 (4,4 Volt)	4	12	02/10>
	CARGO 1,6 D (263) Multijet Pianale piatto	1,6	77	198 A3.000 (4,4 Volt)	4	12	02/10>
	CARGO 2,0 D (263) Multijet	2,0	99	263 A1.000 (4,4 Volt)	4	12	02/10>
	CARGO 2,0 D (263) Multijet Pianale piatto	2,0	99	263 A1.000 (4,4 Volt)	4	12	02/10>

140 PHD 4,4 V

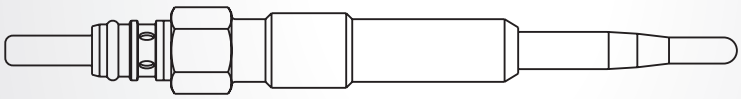
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
FIAT							
DUCATO	2.0 D Autobus (250) 115 Multijet	2.0	85	250 A1.000 (4,4 Volt)	4	12	06/11>
	2.0 D Furgonato (250) 115 Multijet	2.0	85	250 A1.000 (4,4 Volt)	4	12	06/11>
	2.0 D Pianale piatto (250) 115 Multijet	2.0	85	250 A1.000 (4,4 Volt)	4	12	06/11>
FREEMONT	2.0 JTD (JC)	2.0	100	939 B 5.000 (4,4 Volt)	4	12	08/11>
	2.0 JTD (JC)	2.0	103	939 B 5.000, 940 A 5.000 (4,4 Volt)	4	12	08/11>
	2.0 JTD (JC)	2.0	120	939 B 5.000 (4,4 Volt)	4	12	08/11>
	2.0 JTD (JC)	2.0	125	939 B 5.000 (4,4 Volt)	4	12	08/11>
	2.0 JTD (JC) 4X4	2.0	120	939 B 5.000 (4,4 Volt)	4	12	08/11>
	2.0 JTD (JC) 4X4	2.0	125	939 B 5.000 (4,4 Volt)	4	12	08/11>
IDEA	1.6 D Multijet	1.6	88	350 A2.000	4	12	05/08>
LINEA	1.6 D Multijet (323)	1.6	77	198 A3.000 (4,4 Volt)	4	12	06/09>
GRANDE PUNTO	1.6 D (199)	1.6	88	955 A3.000 (4,4 Volt)	4	12	07/08>
PUNTO EVO	1.6 D Multijet	1.6	88	955 A3.000 (4,4 Volt)	4	12	10/09>02/12
PUNTO VAN	1.3 D Multijet	1,3	62	955 A3.000 (4,4 Volt)	4	12	03/12>
SEDICI	2.0 D Multijet	2.0	99	D20AA (4,4 Volt)	4	12	06/06>
	2.0 D Multijet 4x4	2.0	99	D20AA (4,4 Volt)	4	12	06/06>
LANCIA							
DELTA III	1.6 D Multijet (844)	1.6	88	198 A2.000 (4,4 Volt)	4	12	09/08>
	1.9 D Multijet (844)	1.9	140	844 A1.000 (4,4 Volt)	4	12	01/09>
	2.0 D Multijet (844)	2.0	120	844 A2.000 (4,4 Volt)	4	12	09/08>
	2.0 D Multijet (844)	2.0	121	198 A5.000; 198 A8.000 (4,4 Volt)	4	12	09/08>
MUSA	1.6 D Multijet (350)	1.6	85	350 A2.000; 350 A3.000 (4,4 Volt)	4	12	07/08>
	1.6 D Multijet (350)	1.6	88	350 A2.000	4	12	07/08>
OPEL							
ASTRAJ	2.0 CDTI	2.0	118	A 20 DTH (4,4 Volt)	4	12	12/09>
	2.0 CDTI	2.0	121	A 20 DTH (4,4 Volt)	4	12	06/11>
ASTRA GTC J	2.0 GTCI	2.0	121	A 20 DTH (4,4 Volt)	4	12	10/11>
	2.0 BITURBO GTCI	2,0	143	A 20 DTR (4,4 Volt)	4	12	10/12>
ASTRAJ	2.0 CDTI Sports Tourer	2.0	118	A 20 DTH (4,4 Volt)	4	12	10/10>
	2.0 CDTI Sports Tourer	2.0	121	A 20 DTH (4,4 Volt)	4	12	08/11>
COMBO	COMBO Tour (X12) 1,6 CDTI	1,6	66	A 16 FDL (4,4 Volt)	4	12	02/12>
	COMBO Tour (X12) 1,6 CDTI	1,6	74	A 16 FDH (4,4 Volt)	4	12	02/12>
	COMBO Tour (X12) 1,6 CDTI	1,6	77	A 16 FDH (4,4 Volt)	4	12	02/12>
	COMBO (X12) 1,6 CDTI Promiscuo	1,6	66	A 16 FDL (4,4 Volt)	4	12	02/12>
	COMBO (X12) 1,6 CDTI Promiscuo	1,6	74	A 16 FDH (4,4 Volt)	4	12	02/12>
	COMBO (X12) 1,6 CDTI Promiscuo	1,6	77	A 16 FDH (4,4 Volt)	4	12	02/12>
	COMBO Tour (X12) 2,0 CDTI	2,0	99	A 20 FD (4,4 Volt)	4	12	02/12>
	COMBO (X12) 2,0 CDTI Promiscuo	2,0	99	A 20 FD (4,4 Volt)	4	12	02/12>
INSIGNIA	2.0 CDTI	2.0	81	A 20 DTC, A 20 DTL (4,4 Volt)	4	12	07/08>
	2.0 CDTI	2.0	96	A 20 DT, A 20 DTJ (4,4 Volt)	4	12	07/08>
	2.0 CDTI	2.0	118	A 20 DTH (4,4 Volt)	4	12	07/08>
	2.0 CDTI 4x4	2.0	118	A 20 DTH (4,4 Volt)	4	12	06/10>
	TRE VOLUMI 2.0 CDTI	2.0	81	A 20 DTC, A 20 DTL (4,4 Volt)	4	12	07/08>
	TRE VOLUMI 2.0 CDTI	2.0	96	A 20 DT, A 20 DTJ (4,4 Volt)	4	12	07/08>
	TRE VOLUMI 2.0 CDTI	2.0	118	A 20 DTH (4,4 Volt)	4	12	07/08>
	TRE VOLUMI 2,0 CDTI 4x4	2.0	118	A 20 DTH (4,4 Volt)	4	12	06/10>
	Sports Tourer 2.0 CDTI	2.0	81	A 20 DTC, A 20 DTL (4,4 Volt)	4	12	07/08>
	Sports Tourer 2.0 CDTI	2.0	96	A 20 DT, A 20 DTJ (4,4 Volt)	4	12	07/08>
	Sports Tourer 2.0 CDTI	2.0	118	A 20 DTH (4,4 Volt)	4	12	07/08>09/09
ZAFIRA C	C 2,0 CDTI (P12)	2,0	96	A20DT,YJ20DTJ, Z20DTJ (4,4 Volt)	4	12	10/11>
	C 2,0 CDTI (P12)	2,0	118	A 20 DTH (4,4 Volt)	4	12	10/11>
	C 2,0 CDTI (P12)	2,0	121	A 20 DTH (4,4 Volt)	4	12	10/11>
SAAB							
9-3	1.9 TTiD (YS3F)	1.9	96	A 19 DTR (4,4 Volt)	4	12	12/07>
	1.9 TTiD (YS3F)	1.9	118	A 19 DTR (4,4 Volt)	4	12	12/07>

140 PHD 4,4 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
SAAB							
9-3	X 1.9 TTiD (YS3F)	1.9	132	A 19 DTR, Z 19 DTR (4,4 Volt)	4	12	12/07>
	X 1.9 CabrioletTTiD (YS3F)	1.9	118	A 19 DTR (4,4 Volt)	4	12	12/07>
	X 1.9 CabrioletTTiD (YS3F)	1.9	132	A 19 DTR, Z 19 DTR (4,4 Volt)	4	12	12/07>
	X 1.9 Station Wagon TTiD (YS3F)	1.9	96	A 19 DTR (4,4 Volt)	4	12	12/07>
	X 1.9 CabrioletTTiD (YS3F)	1.9	118	A 19 DTR (4,4 Volt)	4	12	12/07>
	X 1.9 CabrioletTTiD (YS3F)	1.9	132	Z 19 DTR (4,4 Volt)	4	12	12/07>
	9-3X -1.9 TTiD	1.9	132	Z 19 DTR (4,4 Volt)	4	12	02/09>

141 PHD 7,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
141 PHD	29	46	97	10	M10X1	4	7,0	3	63	5

Suitable to: NGK
CZ-101
CZ-104
DP52

Suitable to: VOLKSWAGEN
N 105 91 601
N 105 91 604
N 105 91 607
N 105 91 608

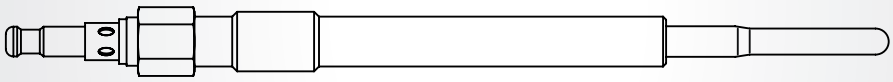
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
AUDI							
A3	2,0 TDI (8P1)	2.0	103	BMM (7 Volt)	4	12	06/05>
	2,0 TDI (8P1) QUATTRO	2.0	103	BMM (7 Volt)	4	12	01/06>
	2,0 TDIB sportback (8PA)	2.0	103	BMM (7 Volt)	4	12	06/05>
	2,0 TDI sportback (8PA) QUATTRO	2.0	103	BMM (7 Volt)	4	12	01/06>
A4	1.9 TDI (8EC, B7)	1.9	85	BKE, BRD (7 Volt)	4	12	11/04>06/08
	1.9 TDI (8ED, B7) Avant	1.9	85	BKE, BRD (7 Volt)	4	12	11/04>06/08
	2.0 TDI cabriolet (8H7, B6, 8HE, B7)	2.0	103	BPW (7 Volt)	4	12	01/06>03/09
	2.0 Avant (8ED, B7)	2.0	103	BPW (7 Volt)	4	12	11/04>06/08
	2.0 Avant (8ED, B7) QUATTRO	2.0	103	BPW (7 Volt)	4	12	01/06>06/08
SEAT							
ALHAMBRA	2.0 TDI (7V8, 7V9)	2.0	103	BRT (7 Volt)	4	12	11/05>03/10
IBIZA V	1.4 TDI (6J5)	1.4	59	BMS (7 Volt)	4	12	07/08>
	1.4 TDI (6J5) Sportcoupe	1.4	59	BMS (7 Volt)	4	12	07/08>
LEON	1,9 TDI (1P1)	1.9	77	BKC, BLS, BLE (7 Volt)	4	12	09/05>
SKODA							
FABIA	1.4 TDI	1.4	59	BMS, BNV (7 Volt)	4	12	01/07>
	1.4 TDI combi	1.4	59	BMS, BNV (7 Volt)	4	12	10/07>
	1.9 TDI	1.9	77	BLS, BSW (7 Volt)	4	12	04/07>
	1.9 TDI combi	1.9	77	BLS, BSW (7 Volt)	4	12	10/07>
ROOMSTER	1.4 TDI	1.4	59	BMS, BNV (7 Volt)	4	12	09/06>03/10
	1.4 TDI (5J) Praktik	1.4	59	BMS, BNV (7 Volt)	4	12	03/07>03/10
	1.9 TDI (5J)	1.9	77	BLS, BSW (7 Volt)	4	12	09/06>03/10
SUPERB	1,9 TDI (3U4)	1.9	77	BSV (7 Volt)	4	12	10/05>05/07
	1,9 TDI (3U4)	1.9	85	BPZ (7 Volt)	4	12	01/07>03/08
	2.0 TDI (3U4)	2.0	103	BSS (7 Volt)	4	12	10/05>03/08
	2.0 TDI (3T4)	2.0	103	BMP (7 Volt)	4	12	03/08>
	2.0 TDI (3T5) sw	2.0	103	BMP (7 Volt)	4	12	10/09>03/10
VOLKSWAGEN							
BEETLE	1,9 TDI (9C1, 1C1)	1.9	77	ATD, BEW (7 Volt)	4	12	02/01>

141 PHD 7,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
VOLKSWAGEN							
CRAFTER	2.5 TDI 30-35 (2E)	2.5	65	BJJ, CEBA (7 Volt)	5	12	04/06>
	2.5 TDI 30-35 (2E)	2.5	80	BJK, CEBB (7 Volt)	5	12	04/06>
	2.5 TDI 30-35 (2E)	2.5	100	BJL, CECA (7 Volt)	5	12	04/06>
	2.5 TDI 30-35 (2E)	2.5	120	BJM, CECB (7 Volt)	5	12	04/06>
GOLF V	1,9 TDI (1K1)	1.9	77	BKC, BLS, BXE (7 Volt)	4	12	10/03>
MULTIVAN V	2.5 TDI (7HM, 7HN, 7HF, 7EM, 7EN)	2.5	96	AXD, BNZ (7 Volt)	5	12	04/03>11/09
	2.5 TDI (7HM, 7HN, 7HF, 7EM, 7EN)	2.5	128	AXE, BPC (7 Volt)	5	12	04/03>11/09
PASSAT	2,0 TDI Variant (3C5)	2.0	103	BMP (7 Volt)	4	12	08/05>
	2,0 TDI Variant (3C5) 4 MOTION	2.0	103	BMP (7 Volt)	4	12	08/05>
	2.0 TDI (3C2)	2.0	103	BMP (7 Volt)	4	12	03/05>
POLO	1.4 TDI (9N)	1.4	51	BNM, BWB (7 Volt)	4	12	04/05>
	1.4 TDI (9N)	1.4	59	BMS, BNV (7 Volt)	4	12	04/05>
SHARAN	2.0 TDI (7M6, 7M8, 7M9)	2.0	103	BRT (7 Volt)	4	12	11/05>03/10
TOUAREG	2.5 R5 TDI (7LA, 7L6, 7L7)	2.5	128	BAC, BPE (7 Volt)	5	12	01/03>05/10
	5,0 V10 TDI (7LA, 7L6, 7L7)	5.0	230	AYH, BLE, BWF (7 Volt)	10	12	10/02>05/10
TRANSPORTER V	2,5 TDI (7HB, 7HJ, 7EB, 7EJ, 7EF)	2.5	128	AXE, BPC (7 Volt)	5	12	04/03>11/09

142 PHD 7,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
142 PHD	29,5	70	117	8	M8X1	4	7,0	3	93	4

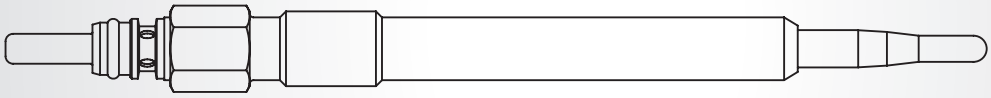
Suitable to:
NGK
CZ-304
DP55

Suitable to:
MITSUBISHI
MN980406

Suitable to:
VOLKSWAGEN
N 105 798 03
N 105 798 05

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
AUDI							
A3	2,0 TDI (8P1)	2.0	125	BMN, CBBB, CFGB (7 Volt)	4	12	03/06>
	2,0 TDI (8P1) SPORTBACK 4	2.0	125	BMN, CBBB, CFGB (7 Volt)	4	12	03/06>
	2,0 TDI (8PA) QUATTRO	2.0	125	BMN, CBBB, CFGB (7 Volt)	4	12	03/06>
	2,0 TDI (8PA) SPORTBACK	2.0	125	BMN, CBBB, CFGB (7 Volt)	4	12	03/06>
A4	2.0 TDI (8EC,B7)	2.0	100	BNA, BRF (7 Volt)	4	12	11/04>06/08
	2.0 TDI (8EC,B7)	2.0	125	BRD (7 Volt)	4	12	06/06>06/08
	2.0 TDI (8EC,B7) 16V	2.0	103	BLB, BRE (7 Volt)	4	12	11/04>06/08
	2.0 TDI (8EC,B7) QUATTRO	2.0	125	BRD (7 Volt)	4	12	06/06>06/08
	2.0 TDI (8ED,B7) 16V AVANT	2.0	103	BLB, BRE (7 Volt)	4	12	11/04>06/08
	2.0 TDI (8ED,B7) AVANT	2.0	125	BRD (7 Volt)	4	12	06/06>06/08
	2.0 TDI (8ED,B7) AVANT	2.0	100	BNA, BRF (7 Volt)	4	12	11/04>06/08
	2.0 TDI (8ED,B7) QUATTRO	2.0	125	BRD (7 Volt)	4	12	06/06>06/08
A6	2,0 TDI (4F2,C6)	2.0	100	BNA, BRF, CAGB (7 Volt)	4	12	07/04>03/11
	2,0 TDI (4F2,C6)	2.0	103	BLB, BRE (7 Volt)	4	12	07/04>10/08
	2,0 TDI (4F5,C6) AVANT	2.0	100	BNA, BRF, CAGB (7 Volt)	4	12	06/05>08/11
	2,0 TDI (4F5,C6) AVANT	2.0	103	BLB, BRE (7 Volt)	4	12	06/05>10/08
MITSUBISHI							
GRANDIS	2.0 DI-D (NA_W)	2,0	103	BWC (4,4 Volt)	4	12	02/07>
SEAT							
ALTEA	2,0 TDI (5P1)	2.0	125	BMN, CEGA (7 Volt)	4	12	03/06>
	XL 2.0 TDI (5P5, 5P8)	2.0	125	BMN, CEGA (7 Volt)	4	12	06/07>
	XL 2.0 TDI (5P5, 5P8) 4X4	2.0	125	BMN, CEGA, CFJA (7 Volt)	4	12	06/07>
LEON	2,0 TDI (1P1)	2.0	125	BMN, CEGA, CFJA (7 Volt)	4	12	05/06>
SKODA							
OCTAVIA	2,0 TDI (1Z3)	2.0	125	BMN, CEGA (7 Volt)	4	12	04/06>
	2,0 TDI (1Z5) COMBI	2.0	125	BMN, CEGA (7 Volt)	4	12	04/06>
VOLKSWAGEN							
GOLF V	2,0 TDI (1K1)	2.0	125	BMN (7 Volt)	4	12	11/05>11/08
JETTA III	2,0 TDI (1K2)	2.0	125	BMN, CEGA (7 Volt)	4	12	10/06>10/10
PASSAT	2,0 TDI (3C2)	2.0	100	BMA, CBAA (7 Volt)	4	12	03/05>11/10
	2,0 TDI (3C2)	2.0	125	BMR, CBBB (7 Volt)	4	12	08/05>
	2,0 TDI (3C2) 16V	2.0	103	BKP, CBAB (7 Volt)	4	12	03/05>
	2,0 TDI (3C2) 16V 4motion	2.0	103	BKP, CBAB (7 Volt)	4	12	03/05>
	2,0 TDI Variant (3C5)	2.0	90	BVE (7 Volt)	4	12	08/05>02/06
	2,0 TDI Variant (3C5)	2.0	100	BMA, CBAA (7 Volt)	4	12	08/05>11/10
	2,0 TDI Variant (3C5)	2.0	120	BUZ (4,4 Volt)	4	12	08/05>
	2,0 TDI Variant (3C5)	2.0	125	BMR, CBBB (4,4 Volt)	4	12	08/05>
	2,0 TDI Variant 16V (3C5)	2.0	103	BKP, CBAB (7 Volt)	4	12	08/05>
	2,0 TDI Variant 16V (3C5) 4MOTION	2.0	103	BKP, CBAB (7 Volt)	4	12	08/05>
TOURAN	2,0 TDI (1T1, 1T2) 16V	2.0	103	BKD (4,4 Volt)	4	12	08/03>05/10

143 PHD 7,0 V



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
143 PHD	25	83	130	10	M10X1	4	7,0	3	63	5

Suitable to:
BOSCH
GLP122
GSK3-5
122
0 250 302 004

Suitable to:
BOSCH USA
80041
CHRYSLER
0 514 2577 AA

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
JEEP							
LIBERTY	2.8 CRD (KJ)	2,8	110	**VM (7Volt)**	4	7	01/06>01/08
CHEROKEE	2,8 CRD (KJ)	2.8	110	**VM (7Volt)**	4	7	01/06>01/08

144 PHD 7,0 V

NEW

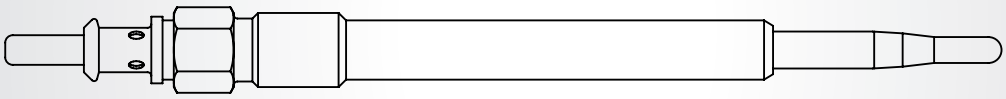
ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
144 PHD	26	78	126	8	M8X1	4	7,0	3	93	4

Suitable to:
BOSCH
GLP198
0 250 603 004
0 250 603 005
FORD
9X2Q6M090AC

Suitable to:
P.S.A.
5960 E7
ROVER
LR 013275

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
CITROEN							
C5	3,0 HDI 240 (RD_)	3,0	177	DT20C (7 Vvolt)	6	12	04/09>
C5 BREAK	3,0 HDI 240 BREAK(TD_)	3,0	177	DT20C (7 Vvolt)	6	12	04/09>
C6	3,0 HDI 240 (TD_)	3,0	177	DT20C (7 Vvolt)	6	12	04/09>
JAGUAR							
X-TYPE	3,0 D (_J05_, CC9)	3,0	155	AJV6D (7 Volt)	6	12	03/09>08/11
X-TYPE	3,0 D (_J05_, CC9)	3,0	177	AJV6D (7 Volt)	6	12	03/09>
X-TYPE	3,0 D (_J05_, CC9)	3,0	202	AJV6D (7 Volt)	6	12	03/09>
X-TYPE	3,0 D XF (J05, CC9)	3,0	202	306DT (7 Volt)	6	12	09/12>
X-TYPE	3,0 D XF SPRTBRAKE (CC9)	3,0	177	306DT (7 Volt)	6	12	09/12>
X-TYPE	3,0 V6 D (_J12_, _J24_, X 351)	3,0	202	AJV6D (7 Volt)	6	12	01/10>
X-TYPE	3,0 V6 D XJ (X35,J12,J24J05, CC9)	3,0	202	AJV6D (7 Volt)	6	12	10/09>
PEUGEOT							
407	3,0 HDI COUPE' (6C_)	3,0	177	DT20C (7 Volt)	6	12	06/09>

145 PHD 7,0 V



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
145 PHD	29	80	132	10	M10X1	4	7,0	3	63	5

Suitable to:

NGK

CZ-106

DP53

MERCEDES

001 159 68 01

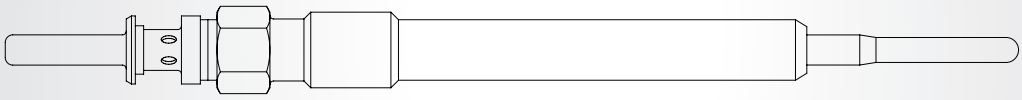
A 001 159 56 01

A 001 159 68 01

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
MERCEDES							
C200	2.0 CDI (W204) (204,007)	2,0	100	OM 646.811 **(7 Volt)**	4	12	01/07>
	2.0 T-Model (S204)	2.0	100	OM 646.811 **(7 Volt)**	4	12	08/07>
C220	2.2 CDI (W204) (204.008)	2,2	125	OM 646.811 **(7 Volt)**	4	12	01/07>
	2.2 T-Model (S204)	2,2	125	OM 646.811 **(7 Volt)**	4	12	08/07>
E200	E 200 CDI (W211)	2,2	100	OM 646.820 **(7 Volt)**	4	12	04/06>
	E T-Model (S211) (211.207)	2,2	100	OM 646.821 **(7 Volt)**	4	12	04/06>
E220	E 220 CDI (W211) (211.008)	2,2	125	OM 646.821 **(7 Volt)**	4	12	04/06>
	E T-Model (S211) (211.207)	2,2	100	OM 646.821 **(7 Volt)**	4	12	04/06>
	E T-Model (S211) (211.208)	2,2	125	OM 646.821 **(7 Volt)**	4	12	04/06>

146 PHD 7,0 V

NEW



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
146 PHD	28	78	134	10	M10X1	4	7,0	3	63	4

Suitable to:
BOSCH
GLP173
0 250 603 006

Suitable to:
BMW
12 23 0 035 934
12 23 7 803 368

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
BMW							
116 D (E81, E87)	116 (E81,E87) d	2.0	85	N47 D20 A, N47 D20 C (7 Volt)	4	12	03/09>09/12
116 D (F20)	116 (F20) d	2,0	85	N47 D16 A (7 Volt)	4	12	11/12>
	116 (F20) d	2,0	85	N47 D20 C (7 Volt)	4	12	12/10>
116 D (F21)	116 (F21) d	2,0	85	N47 D16 A (7 Volt)	4	12	12/11>
	116 (F21) d	2,0	85	N47 D20 C (7 Volt)	4	12	01/12>
118 D (E81, E87)	118 (E81,E87) d	2.0	90	N47 D20 A, N47 D20 C (7 Volt)	4	12	09/04>09/12
	118 (E81,E87) d	2.0	100	N47 D20 A, N47 D20 C (7 Volt)	4	12	09/06>09/12
	118 (E81,E87) d	2.0	105	N47 D20 A, N47 D20 C (7 Volt)	4	12	04/07>09/12
118 D (E82)	118d COUPE'	2.0	100	N47 D20 C (7 Volt)	4	12	09/09>
	118d COUPE'	2.0	105	N47 D20 C (7 Volt)	4	12	09/09>
118 D (E88)	118d CABRIOLET	2.0	100	N47 D20 A, N47 D20 C (7 Volt)	4	12	09/08>
	118d CABRIOLET	2.0	105	N47 D20 A, N47 D20 C (7 Volt)	4	12	09/08>
118 D (F20)	118 (F20) d	2.0	105	N47 D20 C (7 Volt)	4	12	12/10>
118 D (F21)	118 (F21) d	2.0	100	N47 D20 C (7 Volt)	4	12	12/11>
	118 (F21) d	2.0	105	N47 D20 C (7 Volt)	4	12	12/11>
120 D (E81, E87)	120 (E81,E87) d	2.0	120	N47 D20 A, N47 D20 C (7 Volt)	4	12	09/04>09/12
	120 (E81,E87) d	2.0	130	N47 D20 A, N47 D20 C (7 Volt)	4	12	03/07>09/12
	120 (E81,E87) d	2.0	120	N47 D20 A (7 Volt)	4	12	10/07>
120 D (E82)	120 (E82) d COUPE'	2,0	120	N47 D20 A (7 Volt)	4	12	10/07>
	120 (E82) d d COUPE'	2,0	130	N47 D20 A (7 Volt)	4	12	10/07>
120 D (E88)	120 (E88) d CABRIOLET	2.0	120	N47 D20 A (7 Volt)	4	12	03/08>
	120 (E88) d CABRIOLET	2.0	130	N47 D20 A, N47 D20 C (7 Volt)	4	12	03/08>
120 D (F20)	120 (F20) d	2.0	120	N47 D20 C (7 Volt)	4	12	09/11>
	120 (F20) d	2.0	135	N47 D20 C (7 Volt)	4	12	09/11>
	120 (F20) d X DRIVE	2.0	135	N47 D20 C (7 Volt)	4	12	11/12>
120 D (F21)	120 (F21) d	2.0	120	N47 D20 C (7 Volt)	4	12	11/12>
	120 (F21) d	2.0	135	N47 D20 C (7 Volt)	4	12	11/12>
	120 (F21) d X DRIVE	2.0	135	N47 D20 C (7 Volt)	4	12	02/12>
118 D (E81, E87)	123 (E81,E87) d	2,0	150	N47 D20 B, N47 D20 D (7 Volt)	4	12	10/07>09/12
123 D (E82)	123 (E82) d d COUPE'	2.0	150	N47 D20 B (7 Volt)	4	12	10/07>
123 D (E88)	123 (E88) d CABRIOLET	2.0	150	N47 D20 B (7 Volt)	4	12	09/08>
125 D (F20)	125 (F20) d	2.0	155	N47 D20 D (7 Volt)	4	12	08/11>
	125 (F20) d	2.0	160	N47 D20 D (7 Volt)	4	12	08/11>
125 D (F21)	125 (F21) d	2.0	155	N47 D20 D (7 Volt)	4	12	12/11>
	125 (F21) d	2.0	160	N47 D20 D (7 Volt)	4	12	12/11>
316 D (E90)	316 (E90) d	2.0	85	N47 D20 C (7 Volt)	4	12	07/09>12/11
316 D (E91)	316 (E91) d	2.0	85	N47 D20 C (7 Volt)	4	12	09/09>
316 D (F30)	316 (F30) d	2.0	85	N47 D20 C (7 Volt)	4	12	02/12>

146 PHD 7,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
BMW							
316 D (F31)	316 (F31) d TOURING	2.0	85	N47 D20 C (7 Volt)	4	12	06/12>
318 D (E90)	318 (E90) d	2.0	100	N47 D20 C (7 Volt)	4	12	07/07>12/11
	318 (E90) d	2.0	105	N47 D20 A, N47 D20 C (7 Volt)	4	12	09/05>12/11
318 D (E91) Touring	318 (E91) d	2.0	100	N47 D20 C (7 Volt)	4	12	07/07>
	318 (E91) d	2.0	105	N47 D20 A, N47 D20 C (7 Vollt)	4	12	09/07>
318 D (F30)	318 (F30) d	2.0	105	N47 D20 C (7 Volt)	4	12	02/12>
318 D (F31)	318 (F31) d TOURING	2.0	105	N47 D20 C (7 Volt)	4	12	06/12>
318 D (F34)	318 (F34) d Gran Turismo	2.0	105	(7 Volt)	4	12	03/13>
320 D (E90)	2,0 (E90) D	2.0	130	N47 D20 A (7 Volt)	4	12	09/07>12/11
	2,0 (E90) D xDrive	2.0	120	N47 D20 C (7 Volt)	4	12	07/08>12/11
	2,0 (E90) D xDrive	2.0	130	N47 D20 C (7 Volt)	4	12	09/08>12/11
	2,0 (E90) XD	2.0	130	N47 D20 C (7 Volt)	4	12	09/07>12/11
	320 (E90) d	2.0	135	N47 D20 C (7 Volt)	4	12	01/10>12/11
	320 (E90) d xDrive	2.0	135	N47 D20 C (7 Volt)	4	12	01/10>12/11
320 D (E91)	320 (E91) d	2.0	130	N47 D20 A (7 Volt)	4	12	09/07>
	320 (E91) d	2.0	135	N47 D20 C (7 Volt)	4	12	01/10>
	320 (E91) d xDrive	2.0	120	N47 D20 C (7 Volt)	4	12	07/09>
	320 (E91) d xDrive	2.0	130	N47 D20 C (7 Volt)	4	12	09/08>
	320 (E91) d xDrive	2.0	135	N47 D20 C (7 Volt)	4	12	01/10>
	320 (E91) xd	2.0	130	N47 D20 A (7 Volt)	4	12	09/07>
320 D (E92)	320 (E92) d	2.0	130	N47 D20 A (7 Volt)	4	12	03/07>
	320 (E92) d	2.0	135	N47 D20 C (7 Volt)	4	12	01/10>
	320 (E92) d xDrive	2.0	130	N47 D20 C (7 Volt)	4	12	09/08>
	320 (E92) d xDrive	2.0	135	N47 D20 C (7 Volt)	4	12	01/10>
	320 (E92) xd	2.0	130	N47 D20 A (7 Volt)	4	12	03/07>
320 D (E93)	320 (E93) d CABRIOLET	2.0	130	N47 D20 A (7 Volt)	4	12	03/07>
	320 (E93) d CABRIOLET	2.0	135	N47 D20 C (7 Volt)	4	12	01/10>
320 D (F30)	320 (F30) d	2.0	120	N47 D20 C (7 Volt)	4	12	10/11>
	320 (F30) d	2.0	135	N47 D20 C (7 Volt)	4	12	10/11>
	320 (F30) d X DRIVE	2.0	135	N47 D20 C (7 Volt)	4	12	10/11>
320 D (F31)	320 (F31) D TOURING	2.0	135	N47 D20 C (7 Volt)	4	12	06/12>
320 D (F34)	320 (F34) D Gran Turismo	2.0	135	(7 Volt)	4	12	03/13>
325 (E90)	325 (E90) d	3.0	150	N57 D30 A (7Volt)	6	12	01/10>12/11
325 (E91)	3,0 (E91) D TOURING	3,0	145	M57N2306D3, N57D30A (7 Volt)	6	12	04/10>
325 (E92)	325 (E92) D CABRIOLET	3.0	150	N57D30A (7 Volt)	6	12	03/10>
330 D (E90)	330 (E90) d	3.0	180	M57N2 306 D3, N57 D30 A (7 Volt)	6	12	01/09>12/11
	330 (E90) d xDrive	3.0	180	N57 D30 A (7 Volt)	6	12	01/09>12/11
330 D (E91) Touring	330 (E91) d	3.0	180	M57N2 306 D3, N57 D30 A (7 Volt)	6	12	01/09>
	330 (E91) xd	3.0	180	M57N2 306 D3, N57 D30 A (7 Volt)	6	12	01/09>
330 D (E92)	330 (E92) d	3.0	180	M57N2 306 D3, N57 D30 A (7 Volt)	6	12	01/09>
	330 (E92) xd X	3.0	180	M57N2 306 D3, N57 D30 A (7 Volt)	6	12	01/09>
	330 (E92) d xDrive	3.0	180	N57 D30 A (7Volt)	6	12	01/09>
330d (E93)	330 (E93) d	3.0	180	M57N2 306 D3, N57 D30 A (7 Volt)	6	12	01/09>
330d (F31)	330 (F31) D	3,0	190	N57 D30 A (7 Volt)	6	12	06/12>
330 XD (E91)Touring	3.0 (E91) XD	3.0	180	M57N2 306 D3, N57 D30 A (7 Volt)	6	12	01/09>
520 D (E60)	2,0 (E60) D	2,0	120	M47D20(204D4),N47D20A,N47D20C (7 Volt)	4	12	07/05>03/10
	2,0 (E60) D	2.0	130	M47D20(204D4),N47D20A,N47D20C (7 Volt)	4	12	09/07>03/10
520 D (E61) Touring	2,0 (E61) D TOURING	2.0	120	N47D20A, M47N204D5 (5 Volt)	4	12	07/05>
	2,0 (E61) D TOURING	2.0	130	N47 D20 A, N47 D20 C (7 Volt)	4	12	09/07>
520d (F07)	520 (F07) d Gran Turismo	2.0	135	N47 D20 C (7 Volt)	4	12	10/11>
520d (F10)	520 (F10) d	2.0	135	N47 D20 C (7 Volt)	4	12	03/10>
520d (F11)	520 (F11) d Touring	2.0	135	N47 D20 C (7 Volt)	4	12	09/10>
525d (F10)	525 (F10) d	2.0	155	N47 D20 D (7 Volt)	4	12	09/11>
	525 (F10) d xDrive	2.0	155	N47 D20 D (7 Volt)	4	12	09/11>
	525 (F10) d	2.0	160	N47 D20 D (7 Volt)	4	12	09/11>

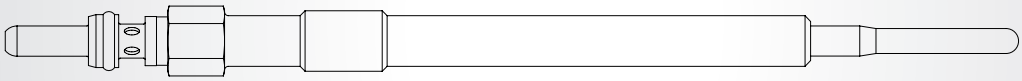
146 PHD 7,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
BMW							
525d (F10)	525 (F10) d xDrive	2.0	160	N47 D20 D (7 Volt)	4	12	09/11>
	525 (F10) d	2.0	150	N57 D30 A (7 Volt)	4	12	03/10>
525d (F11)	525 (F11) d TOURING	3.0	150	N47 D20 D (7 Volt)	4	12	09/10>
	525 (F11) d TOURING	2.0	160	N47 D20 D (7 Volt)	4	12	09/11>
	525 (F11) d xDrive TOURING	2.0	160	N47 D20 D (7 Volt)	4	12	09/11>
530 D GT (F07)	530 (F07) d GRAN TURISMO	3.0	155	N57 D30 A (7 Volt)	6	12	07/10>
	530 (F07) d GRAN TURISMO	3.0	180	N57 D30 A (7 Volt)	6	12	10/09>
	530 (F07) d xDRIVE GRAN T.	3.0	180	N57 D30 A (7 Volt)	6	12	09/10>
	530 (F07) d GRAN TURISMO	3.0	190	N57 D30 A (7 Volt)	6	12	10/09>
	530 (F07) d xDRIVE GRAN T.	3.0	190	N57 D30 A (7 Volt)	6	12	10/09>
530d (F10)	530 (F10) d	3.0	180	N57 D30 A (7 Volt)	6	12	03/10>
	530 (F10) d	3.0	190	N57 D30 A (7 Volt)	6	12	09/11>
	530 (F10) d Xdrive	3.0	190	N57 D30 A (7 Volt)	6	12	09/11>
530d (F11)	530 (F11) d	3.0	180	N57 D30 A (7 Volt)	6	12	09/10>
	530 (F11) d	3.0	190	N57 D30 A (7 Volt)	6	12	09/11>
	530 (F11) d Xdrive	3.0	190	N57 D30 A (7 Volt)	6	12	09/11>
535 D GT (F07)	535 (F07) d GRAN TURISMO	3.0	220	N57S D30 B (7 Volt)	6	12	09/10>
	535 (F07) d xDrive GRAN T.	3.0	220	N57S D30 B (7 Volt)	6	12	09/10>
535d (F10)	535 (F10) d	3.0	220	N57S D30 B (7 Volt)	6	12	09/10>
535 D (F11)	535 (F11) d	3.0	220	N57S D30 B (7 Volt)	6	12	09/10>
	535 (F11) d xDrive	3.0	220	N57 D30 B (7 Volt)	6	12	09/11>
730 D (F01, F02, F03, F04)	730 (F01, F02, F03, F04) d	3.0	180	N57 D30 A (7 Volt)	6	12	10/08>
	730 (F01, F02, F03, F04) d	3.0	190	N47 D30 A (7 Volt)	6	12	07/12>
	730 (F01, F02, F03, F04) d	3.0	190	N47 D30 A (7 Volt)	6	12	07/12>
740 D (F01, F02, F03, F04)	740 (F01, F02, F03, F04) d	3.0	225	N57S D30 B (7 Volt)	6	12	09/09>
	740 (F01, F02, F03, F04) d xD	3.0	225	N57S D30 B (7 Volt)	6	12	09/09>
X1 (E84)	2,0 (E84) Sdrive 16d	2,0	85	N47 D20 C (7 Volt)	4	12	04/12>
	2,0 (E84) sDrive 18d	2.0	100	N47 D20 C (7 Volt)	4	12	03/09>
	2,0 (E84) sDrive 18d	2.0	105	N47 D20 C (7 Volt)	4	12	10/09>
	2,0 (E84) sDrive 20d	2.0	120	N47 D20 C (7 Volt)	4	12	03/10>
	2,0 (E84) sDrive 20d	2.0	130	N47 D20 C (7 Volt)	4	12	10/09>
	2,0 (E84) xDrive 18d	2.0	105	N47 D20 C (7 Volt)	4	12	03/09>
	2,0 (E84) xDrive 18d	2.0	105	N47 D20 C (7 Volt)	4	12	10/09>
	2,0 (E84) xDrive 20d	2.0	120	N47 D20 C (7 Volt)	4	12	03/10>
	2,0 (E84) xDrive 20d	2.0	130	N47 D20 C (7 Volt)	4	12	10/09>
	2,0 (E84) xDrive 20d	2.0	135	N47 D20 C (7 Volt)	4	12	10/09>
	2,0 (E84) xDrive 23d	2,0	150	N47S D20 D (7 Volt)	4	12	10/09>
	2,0 (E84) xDrive 25d	2.0	160	N47 D20 D (7 Volt)	6	12	10/09>
X3 (E83)	2,0 (E83) xDrive 18d	2.0	105	N47 D20 C (7 Volt)	4	12	09/08>
	2,0 (E83) xDrive 20d	2.0	120	N47 D20 C (7 Volt)	4	12	09/08>
	2,0 (E83) xDrive 20d	2.0	130	N47 D20 C (7 Volt)	4	12	09/08>
	2,0 (E83) xDrive 20d	2.0	135	N47 D20 C (7 Volt)	4	12	09/10>
	2.0 (E83) D	2.0	130	N47 D20 A (7 Volt)	4	12	09/07>
X3 (F25)	2,0 (F25) sDrive 18d	2,0	100	N47 D20 C (7 Volt)	4	12	08/11>
	2,0 (F25) sDrive 18d	2,0	105	N47 D20 C (7 Volt)	4	12	08/11>
	2,0 (F25) xDrive 20d	2,0	120	N47 D20 C (7 Volt)	4	12	09/10>
	2,0 (F25) xDrive 20d	2,0	135	N47 D20 C (7 Volt)	4	12	09/10>
	3,0 (F25) xDrive 30d	3.0	190	N57 D30 A (7 Volt)	6	12	05/11>
X5 (E70)	3,0 (E70) xDrive 30d	3.0	180	N57 D30 A (7 Volt)	6	12	09/10>
	3,0 (E70) xDrive 30d	3.0	190	N57 D30 A (7 Volt)	6	12	05/11>
	3,0 (E70) xDrive 40d	3.0	225	N57S D30 B (7 Volt)	6	12	09/10>
X6 3,5 (E71, E72)	3,0 (E71,E72) xDrive 30d	3.0	155	N57 D30 A (7 Volt)	6	12	09/10>
X6 (E71, E72)	3,0 (E71,E72) xDrive 30d	3.0	180	M57N2 306 D3, N57 D30 A (7 Volt)	6	12	09/10>
	3,0 (E71,E72) xDrive 40d	3.0	225	N57S D30 B (7 Volt)	6	12	10/10>

147 PHD

7,0 V

NEW



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
147 PHD	27,5	85	134	8	M8X1	4	7,0	3	93	4

Suitable to:
BOSCH
GLP199
0 250 603 008

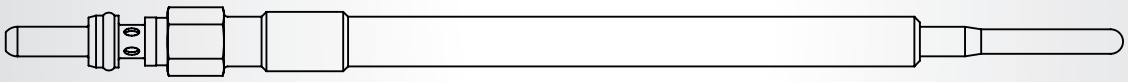
Suitable to:
VM
46 07 2020 F
D6 07 0054 A

Suitable to:
VOLVO
30777311

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
VOLVO							
C 30	D3	1.9	110	D 5204 T5 (7 Volt)	5	12	10/10>
	D4	1.9	130	D 5204 T (7 Volt)	5	12	10/10>
	D5	2.4	132	D 5244 T13, D 5244 T8 (7 Volt)	5	12	10/06>07/10
	D5	2.4	120	D 5244 T9 (7 Volt)	5	12	10/06>07/10
C 70 II	Cabriolet D3	1.9	110	D 5204 T5 (7 Volt)	5	12	10/10>
	Cabriolet D4	1.9	130	D5204 T (7 Volt)	5	12	10/10>
	Cabriolet D5	2,4	132	D 5244 T13, T8 (4,4 Volt)	5	12	03/06>
	Cabriolet 2,4 D	2.4	120	(7 Volt)	5	12	03/07>
S 40 II	D3 (MS)	1.9	110	D 5204 T5 (7 Volt)	5	12	10/10>
	D4 (MS)	1.9	130	D 5204 T (7 Volt)	5	12	10/10>
	D5 (MS)	2.4	132	D 5244 T8 (7 Volt)	5	12	03/06>07/10
S 80 II	2.4 D (AS)	2.4	120	D 5244 T, D 5244 T5 (7 Volt)	5	12	03/06>
	2.4 D (AS)	2.4	129	D 5244 T14 (7 Volt)	5	12	01/10>
	D5 (AS)	2.4	151	D 5244 T10 (7 Volt)	5	12	01/10>
	D5 (AS)	2.4	158	D 5244 T11, D 5244 T15 (7 Volt)	5	12	06/11>
	D5 AWD	2.4	151	D 5244 T10 (7 Volt)	5	12	01/10>
	D5 AWD	2.4	158	D 5244 T11, D 5244 T15 (7 Volt)	5	12	06/11>
V 40	D3 2 VOL.	1.9	110	D 5204 T6 (7 Volt)	5	12	03/12>
	D4 2 VOL.	1.9	130	D 5204 T4 (7 Volt)	5	12	03/12>
S 40 II	2.4 Tdi (MW)	2.4	120	D 5244 T9 (7 Volt)	5	12	05/07>07/10
	D3 (MW)	1.9	110	D 5204 T5 (7 Volt)	5	12	10/10>12/12
	D4 (MW)	1.9	130	D 5204 T (7 Volt)	5	12	10/10>12/12
	D5 (MW)	2.4	132	D 5244 T13, D 5244 T8 (7 Volt)	5	12	03/06>07/10
V 70 III	D3	2,0	120	D 5204 T02, D 5204 T03 (7 Volt)	5	12	03/10>
	D5 AWD	2.4	151	D 5244 T10 (7 Volt)	5	12	12/09>
	D5 SW	2.4	151	D 5244 T10 (7 Volt)	5	12	12/09>
XC60	D3	1.9	120	D 5204 T2, D5204 T3 (7 Volt)	5	12	03/10>
	2.4 D	2.4	129	D 5244 T14 (7 Volt)	5	12	07/09>
	2.4 D AWD	2.4	120	D 5244 T16, D 5244 T17, D 5244 T5 (7 Volt)	5	12	05/08>
	D5 AWD	2.4	136	D 5244 T4 (7 Volt)	5	12	05/08>
	D5 AWD	2.4	151	D 5244 T10 (7 Volt)	5	12	07/09>
	D5	2.4	158	D 5244 T11 (7 Volt)	5	12	06/11>
	D5 AWD	2.4	158	D 5244 T11, D 5244 T15 (7 Volt)	5	12	06/11>
XC 70 II	D5 AWD	2.4	151	D 5244 T10 (7 Volt)	5	12	12/09>

148 PHD 7,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
148 PHD	26	100	148	8	M8X1	4	7,0	3	93	4

Suitable to:
NGK
CZ-303
DP54

Suitable to:
MERCEDES
001 159 57 01
A 001 159 57 01

Suitable to:
MERCEDES
A 001 159 58 01
A 001 159 66 01

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
MERCEDES							
A CLASS	A 1,7 180 CDI (W176)	1,8	80	OM 651.901 (7 Volt)	4	12	06/12>
	A 2.0 200 CDI (W176)	1,8	100	OM 651.901 (7 Volt)	4	12	06/12>
	A 2.0 220 CDI (W176)	2,2	125	OM 651.930 (7 Volt)	4	12	09/12>
B CLASS	B 2.0 180 CDI (W245)(245.207)	2.0	80	OM 640.940 (7,0 Volt)	4	12	03/05>11/11
	B 2.0 180 CDI (W246)(245.200)	1,8	80	OM 651.901 (7,0 Volt)	4	12	11/11>
	B 2.0 200 CDI (W245)	2.0	100	OM 640.941 (7,0 Volt)	4	12	03/05>11/11
	B 2.0 200 CDI (W245)(245.208)	2.0	103	OM 640.941 (7,0 Volt)	4	12	03/05>11/11
	B 2.0 200 CDI (W246)(246.201)	1,8	100	OM 651.901 (7,0 Volt)	4	12	11/11>
C 180	C 180 CDI (W204)	2.1	88	OM 651.913 (7,0 Volt)	4	12	01/11>
C 180 CT	C 180 CDI (S204)	2,1	88	OM 651.913 (7,0 Volt)	4	12	01/11>
C 200	C 200 CDI (W204)	2.1	100	OM 651.913 (7,0 Volt)	4	12	01/11>
	C 220 CDI (W204)	2.1	125	OM 651.911 (7,0 Volt)	4	12	12/08>
C 220 COUPE'	C 220 CDI (C204)	2,2	125	OM 651.911 (7,0 Volt)	4	12	06/11>
C 220 CT	C 220 CDI (S204)	2,2	125	OM 651.911 (7,0 Volt)	4	12	12/08>
C 250	C 250 CDI (W204)	2.1	150	OM 651.911 (7,0 Volt)	4	12	08/08>
C 250 CT	C 250 CDI (S204)	2.1	150	OM 651.911 (7,0 Volt)	4	12	01/09>
	C 250 CDI (S204) 4matic	2.1	150	OM 651.912 (7,0 Volt)	4	12	04/10>
C 250 COUPE'	COUPE' 250 CDI (C218)	2.1	150	OM 651.911 (7,0 Volt)	4	12	04/11>
C 250 CLS	CLS 250 CDI (C218)	2.1	150	OM 651.924 (7,0 Volt)	4	12	04/11>
C 300	C 300 CDI 4matic	3,0	170	OM 642.832 (7,0 Volt)	6	12	01/11>
C 350	C 350 CDI (W204)	3.0	170	OM 642.830 (7,0 Volt)	6	12	10/09>
	C 350 CDI (W204) 4matic	3.0	170	OM 642.832 (7,0 Volt)	6	12	10/09>
C 350 CT	C 350 CDI (W204)	3.0	170	OM 642.830 (7,0 Volt)	6	12	10/09>
	C 350 CDI (W204) 4matic	3.0	170	OM 642.832 (7,0 Volt)	6	12	10/09>
E 200	E 200 CDI (W212)	2,2	100	OM 651.925 (7,0 Volt)	4	12	01/09>
	E 200 T-Model (S212)	2,2	100	OM 651.925 (7,0 Volt)	4	12	11/09>
E 220	E 220 CDI (W212) (212.002)	2,2	125	OM 651.924 (7 Volt)	4	12	01/09>
E 220 COUPE'	E 220 CDI (C207)	2,2	125	OM 651.911 (7 Volt)	4	12	01/10>
E 220 CABRIOLET	E 220 CDI (A207)	2,2	125	OM 651.911 (7 Volt)	4	12	01/10>
E 250	E 250 CDI (W211)	2,2	150	OM 651.924 (7,0 Volt)	4	12	08/08>12/08
	E 250 CDI (W212)	2,2	150	OM 651.924 (7,0 Volt)	4	12	01/09>
	E 250 CDI (W212) 4matic	2,2	150	OM 651.924 (7,0 Volt)	4	12	01/09>
	E 250 T-Model CDI (S212)	2,2	150	OM 651.924 (7,0 Volt)	4	12	11/09>
	E 250 T-Model CDI (S212) 4matic	2,2	150	OM 651.924 (7,0 Volt)	4	12	07/10>
E 250 CABRIOLET	E 220 CDI (A207) CABRIOLET	2,2	150	OM 651.911 (7 Volt)	4	12	01/10>
E 280	T-MODEL CDI (S211) (211.220)	3.0	140	OM 642.920 (7 Volt)	6	12	03/05>
	T-MODEL CDI (S211) 4-MATIC	3.0	140	OM 642.921 (7 Volt)	6	12	03/05>

148 PHD 7,0 V

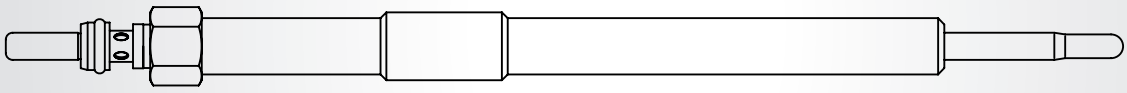
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
MERCEDES							
E 280	E 280 CDI (W211) (211.020)	3.0	140	OM 642.920 (7 Volt)	6	12	03/05>
	E 280 CDI (W211) 4-MATIC	3.0	140	OM 642.921 (7 Volt)	6	12	03/05>
E 300	E 300 CDI (W212)	3,0	150	(7,0 Volt)	6	12	03/11>
	E 300 CDI T-Model (S212)	3,0	150	(7,0 Volt)	6	12	03/11>
	E 300 CDI (W212)	3,0	170	OM 642.850 (7,0 Volt)	6	12	03/11>
E 300 BlueTEC	E 300 BlueTEC (W211)	3,0	155	OM 642.920 (7,0 Volt)	6	12	09/07>12/08
E 320	CDI T-MODEL (S211) (211.222)	3.0	165	OM 642.920 (7 Volt)	6	12	03/05>
	CDI T-MODEL (S211) 4-MATIC	3.0	165	OM 642.920 (7 Volt)	6	12	03/05>
	E320 CDI (W211) 4-MATIC	3.0	165	OM 642.910 (7 Volt)	6	12	03/05>
	E320 CDI (W211)(211.022)	3.0	165	OM 642.920 (7 Volt)	6	12	03/05>
E 350	E 350 CDI (W212)	3,0	170	OM 642.850 (7,0 Volt)	6	12	01/09>
	E 350 CDI (W212) 4matic	3,0	170	OM 642.856 (7,0 Volt)	6	12	01/09>
	E 350 T-Model CDI (S212)	3,0	170	OM 642.850 (7,0 Volt)	6	12	11/09>
	E 350 T-Model CDI (S212) 4matic	3,0	170	OM 642.856 (7,0 Volt)	6	12	11/09>
E 350 COUPE'	E 350 CDI (C207) COUPE'	3,0	170	OM 642.836 (7,0 Volt)	6	12	01/09>
E 350 CABRIOLET	E 350 CDI (A207) CABRIOLET	3,0	170	OM 642.836 (7,0 Volt)	6	12	01/10>
E 350 BlueTEC	E 350 BlueTEC (W212)	3,0	155	OM 642.850 (7,0 Volt)	6	12	01/09>
	E 350 BlueTEC (S212)	3,0	155	OM 642.850 (7,0 Volt)	6	12	11/09>
G 350	G 320 CDI (W463)	3.0	165	OM 642.970 (7 Volt)	6	12	09/06>
	G 320 CDI (W463) CABRIO	3.0	165	OM 642.970 (7 Volt)	6	12	09/06>
GLK 200	GLK 200 CDI (X204)	2,2	105	OM 651.913 (7 Volt)	4	12	07/10>
GLK 220	GLK 220 CDI (X204)	2,2	120	OM 651.916 (7 Volt)	4	12	12/08>
	GLK 220 CDI (X204) 4-Matic	2,2	125	OM 651.912 (7 Volt)	4	12	12/08>
	GLK 220 CDI (X204)	2,2	120	OM 651.916 (7 Volt)	4	12	12/08>
	GLK 220 CDI (X204) 4-Matic	2,2	125	OM 651.912 (7 Volt)	4	12	12/08>
GLK 250	GLK 250 CDI (X204) 4-Matic	2,2	150	OM 651.912 (7 Volt)	4	12	09/09>
GLK 350	GLK 350 CDI (X204) 4-Matic	3,0	165	OM 642.832 (7 Volt)	6	12	07/09>01/10
ML 250 BlueTEC	ML250 BlueTEC (166) 4Matic	2,2	150	OM 651.960 (7,0 Volt)	4	12	06/11>
ML 280	3.0 ML CDI (W164)	3.0	140	OM 642.940 (7 Volt)	6	12	07/05>07-09
ML 300	ML300 CDI (W164) 4-MATIC	3,0	150	OM 642.820, 642.832 (7 Volt)	6	12	02/10>
ML 320	3.0 ML CDI (W164) 4-MATIC	3.0	165	OM 642.940 (7 Volt)	6	12	07/05>07/09
ML 350	ML 350 CDI (W-164) 4-MATIC	3.0	155	OM 642.820 (7,0 Volt)	6	12	09/09>
R 280	3.0 R 280 CDI (W251)	3.0	140	OM 642.950 (7 Volt)	6	12	05/06>
R 320	3.0 R 320 CDI (W251)	3.0	165	OM 642.950 (7 Volt)	6	12	01/06>
R 350	R 350 CDI 4-MATIC (W251, V251)	3,0	155	OM 642.870,872,950 (7 Volt)	6	12	01/06>
	R 350 CDI 4-MATIC (W251, V251)	3,0	165	OM 642.950 (7 Volt)	6	12	07/09>
S 250	S 250 CDI (W221)	2,2	150	OM 651.961 (7,0 Volt)	4	12	01/11>
SLK 250	SLK 250 CDI (R172)	2,2	150	OM 651.980 (7,0 Volt)	4	12	01/12>
SPRINTER	210 CDI (906)	2.2	70	OM 651.955 (7,0 Volt)	4	12	03/09>
	216 CDI (906)	2,2	120	OM 651.957 (7,0 Volt)	4	12	03/09>
	219 CDI (906)	3.0	140	OM 642.886, 642.992 (7 Volt)	4	12	03/09>
	310 CDI (906) Autobus	2.2	70	OM 651.955 (7,0 Volt)	4	12	03/09>
	310 CDI (906) Furgonato	2.2	70	OM 651.955 (7,0 Volt)	4	12	03/09>
	310 CDI (906) Pianale piatto	2.2	70	OM 651.955 (7,0 Volt)	4	12	03/09>
	313 CDI (906) Autobus	2.2	95	OM 651.956 (7,0 Volt)	4	12	08/11>
	313 CDI (906) Autobus 4X4	2.2	95	OM 651.956 (7,0 Volt)	4	12	08/11>
	313 CDI (906) Pianale piatto	2.2	95	OM 651.956 (7,0 Volt)	4	12	06/06>
	316 CDI (906) Autobus 4X4	2.2	120	OM 651.957 (7,0 Volt)	4	12	08/11>
	316 CDI (906) Furgonato	2.2	120	OM 651.957 (7,0 Volt)	4	12	03/09>
	316 CDI (906) Furgonato 4X4	2.2	120	OM 651.957 (7,0 Volt)	4	12	03/09>
	316 CDI (906) Pianale piatto	2.2	120	OM 651.957 (7,0 Volt)	4	12	03/09>
	416 CDI (906) Furgonato	2.2	120	OM 651.957 (7,0 Volt)	4	12	03/09>
	416 CDI (906) Pianale piatto	2.2	120	OM 651.957 (7,0 Volt)	4	12	03/09>
	510 CDI (906) Furgonato	2.2	70	OM 651.955 (7,0 Volt)	4	12	03/09>

148 PHD 7,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
MERCEDES							
SPRINTER	513 CDI (906) Pianale piatto	2.2	95	OM 651.956 (7,0 Volt)	4	12	05/11>
	516 CDI (906) Furgonato	2.2	120	OM 651.957 (7,0 Volt)	4	12	03/09>
	516 CDI (906) Pianale piatto	2.2	120	OM 651.957 (7,0 Volt)	4	12	03/09>
	516 CDI (906) Pianale piatto 4X4	2.2	120	OM 651.957 (7,0 Volt)	4	12	05/11>
VIANO	2.0 CDI (W639)	2.2	100	OM 651.940 (7,0 Volt)	4	12	07/10>
	2.0 CDI (W639) 4-Matic	2,2	100	OM 651.940 (7,0 Volt)	4	12	07/10>
	2.2 CDI (W639)	2.2	120	OM 651.940 (7,0 Volt)	4	12	07/10>
	2.2 CDI (W639) 4-Matic	2.2	120	OM 651.940 (7,0 Volt)	4	12	07/10>
VITO	2.2 110 CDI (W639)	2.2	70	OM 651.940 (7,0 Volt)	4	12	09/10>
	2.2 113 CDI (W639)	2.2	100	OM 651.940 (7,0 Volt)	4	12	09/10>
	2.2 116 CDI (W639)	2.2	120	OM 651.940 (7,0 Volt)	4	12	09/10>
	2.2 116 CDI (W639) 4X4	2.2	120	OM 651.940 (7,0 Volt)	4	12	09/10>
VITO MIXTO	2.2 110 CDI (W639) MIXTO	2.2	70	OM 651.940 (7,0 Volt)	4	12	09/10>
	2.2 113 CDI (W639) MIXTO	2.2	100	OM 651.940 (7,0 Volt)	4	12	09/10>
	2.2 116 CDI (W639) MIXTO	2.2	120	OM 651.940 (7,0 Volt)	4	12	09/10>

149 PHD 7,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
149 PHD	26	115,5	163	10	M10X1	4	7,0	3	93	4

Suitable to:
BOSCH
GLP154
GLP5 4/3,3 7
0 250 603 001
0 250 603 002

Suitable to:
NISSAN
11065-00Q0C
11065-00Q0G
11065-5X00A

Suitable to:
OPEL - GM
93 161 575
93 198 468
RENAULT
82 00 561 251

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
INFINITI							
EX 30D	EX 30D	3.0	175	(7,0 Volt)	6	12	04/10>
FX 30D	FX 30D	3.0	175	(7,0 Volt)	6	12	04/10>
M (Y51)	M (Y51)	3.0	175	(7,0 Volt)	6	12	03/10>
NISSAN							
MURANO	2.5 4x4 (Z51)	2.5	140	(7 Volt)	4	12	01/10>
NAVARA	2.5 dCi (D40)	2.5	120	YD25DDTi (7 Volt)	4	12	10/06>
	2.5 dCi (D40)	2.5	128	YD25DDTi (7 Volt)	4	12	12/05>
	2.5 dCi (D40) 4WD	2.5	140	(7 Volt)	4	12	12/09>
	2.5 Dci (D40) PIANALE PIATTO	2.5	140	(7 Volt)	4	12	03/10>
	3,0 (D40) PIANALE PIATTO	3.0	170	(7 Volt)	4	12	03/10>
	3.0 dCi (D40)	3.0	170	(7 Volt)	4	12	02/10>
NV 400	2.3 Dci Autobus	2.3	74	M9T 670, 672 676 (7 Volt)	4	12	11/11>
	2.3 Dci Autobus	2.3	92	M9T 670, 672 676 (7 Volt)	4	12	11/11>
	2.3 Dci Autobus	2.3	107	M9T 678, 680 (7 Volt)	4	12	11/11>
	2.3 Dci Furgonato	2.3	74	M9T 670, 672 676 (7 Volt)	4	12	11/11>
	2.3 Dci Furgonato	2.3	92	M9T 670, 672 676 (7 Volt)	4	12	11/11>
	2.3 Dci Furgonato	2.3	107	M9T 678, 680 (7 Volt)	4	12	11/11>
	2.3 Dci Furgonato RWD	2.3	92	M9T 686,690,692,696 (7 Volt)	4	12	11/11>
	2.3 Dci Furgonato RWD	2,3	107	M9T 694,696,698 (7 Volt)	4	12	11/11>
	2.3 Dci Pianale piatto	2.3	74	M9T 670, 672 676 (7 Volt)	4	12	11/11>
	2.3 Dci Pianale piatto	2.3	92	M9T 670, 672 676 (7 Volt)	4	12	11/11>
	2.3 Dci Pianale piatto	2.3	107	M9T 678, 680 (7 Volt)	4	12	11/11>
	2.3 Dci Pianale piatto RWD	2.3	92	M9T 686,690,692,696,698 (7 Volt)	4	12	11/11>
	2.3 Dci Pianale piatto RWD	2,3	107	M9T 694,696,698 (7 Volt)	4	12	11/11>
PATHFINDER	2,5 DCI 4WD (R51)	2.5	128	YD25DDTi (7 Volt)	4	12	03/05>
	2,5 DCI 4WD (R51)	2.5	140	(7 Volt)	4	12	08/10>
	3.0 DCI (R51)	3.0	170	(7 Volt)	4	12	08/10>
PRIMASTAR	2.0 dCi 120 (X83) Autobus	2,0	84	M9R 780 (7 Volt)	4	12	09/06>
	2.0 dCi 120 (X83) Furgonato	2,0	84	M9R 780 (7 Volt)	4	12	09/06>
	2.0 dCi 90 (X83) Autobus	2.0	66	M9R 782 (7 Volt)	4	12	09/06>
	2.0 dCi 90 (X83) Furgonato	2.0	66	M9R 782 (7 Volt)	4	12	09/06>
	2.0 dCi 90 (X83) Furgonato	2.0	66	M9R 782 (7 Volt)	4	12	09/06>

149 PHD 7,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
NISSAN							
QASHQAI	2.0 CDI (J10, JJ10)	2.0	110	M1D, M9R (7 Volt)	4	12	02/07>
	2.0 CDI (J10, JJ10) 4WD	2.0	110	M1D, M9R (7 Volt)	4	12	02/07>
X-TRAIL	2.0 DCI (T31)	2.0	110	M9R (7 Volt)	4	12	06/07>
	2.0 DCI (T31) FWD	2.0	110	M9R (7 Volt)	4	12	06/07>
	2.0 DCI (T31)	2.0	127	M9R 760 (7 Volt)	4	12	06/07>
OPEL							
MOVANO	B 2.3 CDTI Autobus	2.3	74	M9T 670,672,676 (7 Volt)	4	12	12/10>
	B 2.3 CDTI Autobus	2.3	92	M9T 670,672,676,680 (7 Volt)	4	12	12/10>
	B 2.3 CDTI Autobus	2.3	107	M9T 678, M9T 680 (7 Volt)	4	12	12/10>
	B 2.3 CDTI Autobus	2.3	110	(7 Volt)	4	12	01/13>
	B 2.3 CDTI FWD Furgonato	2.3	74	M9T 670,672,676 (7 Volt)	4	12	05/10>
	B 2.3 CDTI FWD Furgonato	2.3	92	M9T 670,672,676 (7 Volt)	4	12	05/10>
	B 2.3 CDTI FWD Furgonato	2.3	107	M9T 678, M9T 680 (7 Volt)	4	12	05/10>
	B 2.3 CDTI FWD Furgonato	2.3	110	(7 Volt)	4	12	01/13>
	B 2.3 CDTI FWD Pianale piatto	2.3	74	M9T 670,672,676 (7 Volt)	4	12	05/10>
	B 2.3 CDTI FWD Pianale piatto	2.3	92	M9T 670,672,676,680 (7 Volt)	4	12	05/10>
	B 2.3 CDTI FWD Pianale piatto	2.3	107	M9T 678, M9T 680 (7 Volt)	4	12	05/10>
	B 2.3 CDTI FWD Pianale piatto	2.3	110	(7 Volt)	4	12	01/13>
	B 2.3 CDTI RWD Furgonato	2.3	74	M9T 690, M9T 692 (7 Volt)	4	12	05/10>
	B 2.3 CDTI RWD Furgonato	2.3	92	M9T 686,690,696 (7 Volt)	4	12	05/10>
	B 2.3 CDTI RWD Furgonato	2.3	107	M9T 694, 696,698 (7 Volt)	4	12	05/10>
	B 2.3 CDTI RWD Furgonato	2.3	110	(7 Volt)	4	12	01/13>
	B 2.3 CDTI RWD Pianale piatto	2.3	74	M9T 690, M9T 692 (7 Volt)	4	12	05/10>
	B 2.3 CDTI RWD Pianale piatto	2.3	92	M9T 692,696,698 (7 Volt)	4	12	05/10>
	B 2.3 CDTI RWD Pianale piatto	2.3	107	M9T 694, 696,698 (7 Volt)	4	12	05/10>
	B 2.3 CDTI RWD Pianale piatto	2.3	107	(7 Volt)	4	12	01/13>
VIVARO	2.0 CDTI (J7) Combi	2.0	66	M9R 780,782,786 (7 Volt)	4	12	08/06>
	2.0 CDTI (J7) Combi	2.0	84	M9R 780,784,786,788 (7 Volt)	4	12	08/06>
	2.0 CDTI (J7) Furgonato	2.0	66	M9R 780,782,786 (7 Volt)	4	12	08/06>
	2.0 CDTI (J7) Furgonato	2.0	84	M9R 780,784,786,788 (7 Volt)	4	12	08/06>
	2.0 CDTI (J7) Pianale piatto	2.0	66	M9R 782 (7 Volt)	4	12	01/06>
	2.0 CDTI (J7) Pianale piatto	2.0	84	M9R 780 (7 Volt)	4	12	08/06>
RENAULT							
ESPACE IV	2.0 DCI (JK0/1)	2.0	96	M9R 802 (7 Volt)	4	12	01/06>
	2.0 DCI (JK0/1)	2.0	110	M9R 740,750,815 (7 Volt)	4	12	01/06>
	2.0 DCI (JK0/1)	2.0	127	M9R 760,761,762,763 (7 Volt)	4	12	01/06>
KOLEOS	2.0 DCI (HY_)	2.0	110	M9R 855,856,862,865,866 (7 Volt)	4	12	09/08>
	2.0 DCI (HY_) 4x4	2.0	110	M9R 855,856,862,865,866 (7 Volt)	4	12	09/08>
	2.0 DCI (HY_) 4x4	2.0	127	M9R 830 (7 Volt)	4	12	09/08>
LAGUNA III	2.0 DCI (BT0/1)	2.0	96	M9R 742,744,802 (7 Volt)	4	12	10/07>
	2.0 DCI (BT0/1)	2.0	110	M9R 802,805,814 (7 Volt)	4	12	10/07>
	2.0 DCI (BT0/1)	2.0	127	M9R 800,809,815 (7 Volt)	4	12	01/08>
	2.0 DCI (BT0/1) COUPE'	2.0	110	M9R 802,805,814 (7 Volt)	4	12	09/08>
	2.0 DCI (BT0/1) COUPE'	2.0	127	M9R 800,809,815 (7 Volt)	4	12	09/08>
	2.0 DCI (BT0/1) GT	2.0	131	M9R 816 (7 Volt)	4	12	03/08>
	2.0 DCI (BT0/1) GT COUPE'	2.0	131	M9R 816, 820 (7 Volt)	4	12	03/08>
	2.0 DCI (BT0/1) GT Sportour	2.0	131	M9R 816, 820 (7 Volt)	4	12	03/08>
	2.0 DCI (BT0/1) Sportour	2.0	96	M9R 742,744,802 (7 Volt)	4	12	10/07>
	2.0 DCI (BT0/1) Sportour	2.0	110	M9R 802,805,814 (7 Volt)	4	12	10/07>
	2.0 DCI (BT0/1) Sportour	2.0	127	M9R 800,809,815 (7 Volt)	4	12	01/08>
	3.0 DCI (BT0/1) COUPE'	3,0	173	V9X 791, 891 (7 Volt)	6	12	09/08>
	3.0 DCI (BT0/1) COUPE'	3,0	177	V9X 891 (7 Volt)	6	12	09/08>
	3.0 DCI (BT0/1) GT	3,0	173	V9X 791, 891 (7 Volt)	6	12	09/08>
	3.0 DCI (BT0/1) GT Sportour	3,0	173	V9X 791, 891 (7 Volt)	6	12	09/08>

149 PHD 7,0 V

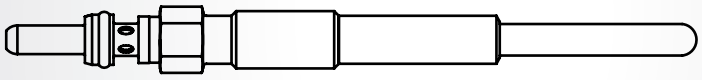
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
RENAULT							
LATITUDE	2.0 DCI 150 (L70)	2.0	110	M9R 824, 846 (7 Volt)	4	12	02/11>
	2.0 DCI 175 (L70)	2.0	127	M9R 804,817,844 (7 Volt)	4	12	05/11>
	3.0 DCI 240 (L70)	3.0	177	V9X 891 (7 Volt)	6	12	02/11>
MASTER III	2.3 dCi 100 (JV) Autobus	2.3	74	M9T 670,672,676 (7 Volt)	4	12	02/11>
	2.3 dCi 125 (JV) Autobus	2.3	92	M9T 670,672,676 (7 Volt)	4	12	02/11>
	2,8 DTI (JV) Autobus	2.3	107	M9T 680 (7 Volt)	4	12	02/11>
	2.3 dCi (FV) FWD Furgonato	2.3	74	M9T 670,672,676 (7 Volt)	4	12	02/10>
	2.3 dCi (FV) RWD Furgonato	2.3	74	M9T 690,692 (7 Volt)	4	12	02/10>
	2.3 dCi (FV) FWD Furgonato	2.3	92	M9T 670,672,676 (7 Volt)	4	12	02/10>
	2.3 dCi (FV) RWD Furgonato	2.3	92	M9T 686,690,692,696,698 (7 Volt)	4	12	02/10>
	2.3 dCi (FV) FWD Furgonato	2.3	107	M9T 676,680,694,696,698 (7 Volt)	4	12	02/10>
	2.3 dCi (FV) RWD Furgonato	2.3	107	M9T 694,698 (7 Volt)	4	12	02/10>
	2.3 dCi (EV) FWD Pianale piatto	2.3	74	M9T 670,672,676 (7 Volt)	4	12	02/10>
	2.3 dCi (EV) RWD Pianale piatto	2.3	74	M9T 690,692 (7 Volt)	4	12	02/10>
	2.3 dCi (EV) FWD Pianale piatto	2.3	92	M9T 670,672,676 (7 Volt)	4	12	02/10>
	2.3 dCi (EV) RWD Pianale piatto	2.3	92	M9T 686,690,692 (7 Volt)	4	12	02/10>
	2.3 dCi (EV) FWD Pianale piatto	2.3	107	M9T 676,680 (7 Volt)	4	12	02/10>
	2.3 dCi (EV) RWD Pianale piatto	2.3	107	M9T 694,696,698 (7 Volt)	4	12	02/10>
MEGANE II	2,0 dCi (BM0/1, CM0/1)	2.0	110	M9R 700, M9R 722 (7 Volt)	4	12	09/05>
	2,0 dCi (BM0/1, CM0/1)	2.0	127	M9R 724 (7 Volt)	4	12	01/07>
	2,0 dCi (LM0/1)	2.0	110	M9R 700, M9R 722 (7 Volt)	4	12	09/05>
	2,0 dCi Coupé Cabriolet (EM0/1)	2.0	110	M9R 700, M9R 722 (7 Volt)	4	12	09/05>
	2,0 dCi Station Wagon (KM0/1)	2.0	110	M9R 700, M9R 722 (7 Volt)	4	12	09/05>
MEGANE III	2,0 dCi (BZ0_)	2.0	110	M9R 615 (7 Volt)	4	12	10/10>
	2,0 dCi (BZ0_)	2.0	118	M9R 610 (7 Volt)	4	12	04/09>
	2,0 dCi Grandtour (K0/1)	2.0	110	M9R 615 (7 Volt)	4	12	10/10>
	2,0 dCi Grandtour (K0/1)	2,0	118	M9R 610 (7 Volt)	4	12	04/09>
	2,0 dCi COUPE' (DZ0/1)	2.0	110	M9R 615 (7 Volt)	4	12	04/09>
	2,0 dCi COUPE' (DZ0/1)	2,0	118	M9R 610 (7 Volt)	4	12	04/09>
MEGANE CC	CC 2.0 dCi (EX0/1)	2.0	118	M9R 610 (7 Volt)	4	12	06/10>
SCENIC II	2,0 dCi (JM0/1)	2.0	110	M9R 700,721,722 (7 Volt)	4	12	09/05>
SCENIC III	2,0 dCi (JZ0/1)	2.0	110	M9R 615 (7 Volt)	4	12	02/09>
	2,0 dCi (JZ0/1)	2,0	118	M9R 610 (7 Volt)	4	12	04/09>
GRAND SCENIC II	2.0 dCi	2.0	110	M9R 700,721,722 (7 Volt)	4	12	09/05>
GRAND SCENIC III	2.0 dCi (JZ0/1)	2.0	110	M9R 615 (7 Volt)	4	12	02/09>
	2.0 dCi (JZ0/1)	2.0	118	M9R 610 (7 Volt)	4	12	04/09>
TRAFIC II	2,0 dCi 115 (EL) Pianale piatto	2,0	84	M9R 780,782,786 (7 Volt)	4	12	08/06>
	2,0 dCi 115 (FL) Furgonato	2,0	84	M9R 780,782,786 (7 Volt)	4	12	08/06>
	2,0 dCi 115 (JL) Autobus	2,0	84	M9R 780,782,786 (7 Volt)	4	12	08/06>
	2,0 dCi 90 (FL) Furgonato	2,0	66	M9R 780,782 (7 Volt)	4	12	08/06>
	2,0 dCi 90 (JL) Autobus	2,0	66	M9R 782 (7 Volt)	4	12	08/06>
	2,0 dCi 90 EL) Pianale piatto	2,0	66	M9R 780,782 (7 Volt)	4	12	08/06>
VEL SATIS	2.0 dCi (BJ0)	2.0	110	M9R 760 (7 Volt)	4	12	08/05>
	2.0 dCi (BJ0)	2.0	127	M9R 760,762,763 (7 Volt)	4	12	01/06>
VAUXHALL							
MOVANO	MK II (B) 2.3 CDTI Combi	2.3	74	M9T 670,672,676 (7 Volt)	4	12	05/10>
	MK II (B) 2.3 CDTI Combi	2.3	92	M9T 670,672,676,680 (7 Volt)	4	12	05/10>
	MK II (B) 2.3 CDTI Combi	2.3	107	M9T 678, M9T 680 (7 Volt)	4	12	05/10>
	MK II (B) 2.3 CDTI Combi	2,3	110	(7 Volt)	4	12	01/13>
	MK II (B) 2.3 CDTI VAN FWD	2.3	74	M9T 670,672,676 (7 Volt)	4	12	05/10>
	MK II (B) 2.3 CDTI VAN RWD	2.3	74	M9T 690,692 (7 Volt)	4	12	05/10>
	MK II (B) 2.3 CDTI VAN FWD	2.3	92	M9T 670,672,676,680 (7 Volt)	4	12	05/10>
	MK II (B) 2.3 CDTI VAN RWD	2.3	92	M9T 686,690,692,696,698 (7 Volt)	4	12	05/10>
	MK II (B) 2.3 CDTI VAN FWD	2.3	107	M9T 678,680,694 (7 Volt)	4	12	05/10>
	MK II (B) 2.3 CDTI VAN RWD	2.3	107	M9T 694,696,698 (7 Volt)	4	12	05/10>

149 PHD 7,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
VAUXHALL							
MOVANO	MK II (B) 2.3 CDTI VAN FWD	2,3	110	(7 Volt)	4	12	01/13>
	MK II (B) 2.3 CDTI VAN RWD	2,3	110	(7 Volt)	4	12	01/13>
	MK II (B) 2.3 CDTI CAB FWD	2.3	74	M9T 670,672,676 (7 Volt)	4	12	05/10>
	MK II (B) 2.3 CDTI CAB FWD	2.3	92	M9T 670,672,676,680 (7 Volt)	4	12	05/10>
	MK II (B) 2.3 CDTI CAB FWD	2.3	107	M9T 678,680 (7 Volt)	4	12	05/10>
	MK II (B) 2.3 CDTI CAB RWD	2.3	107	M9T 694,696,698 (7 Volt)	4	12	07/10>
	MK II (B) 2.3 CDTI CAB FWD	2,3	110	(7 Volt)	4	12	01/13>
	MK II (B) 2.3 CDTI CAB RWD	2,3	110	(7 Volt)	4	12	01/13>
	MK II (B) 2.3 CDTI Doublecab FWD	2.3	74	M9T 670,672,676 (7 Volt)	4	12	07/10>
	MK II (B) 2.3 CDTI DoubleDoublecab RWD	2.3	92	M9T 686,690,692,696,698 (7 Volt)	4	12	07/10>
	MK II (B) 2.3 CDTI Doublecab RWD	2.3	107	M9T 694,696 (7 Volt)	4	12	07/10>
	MK II (B) 2.3 CDTI Doublecab FWD	2,3	110	(7 Volt)	4	12	01/13>
	MK II (B) 2.3 CDTI Doublecab RWD	2,3	110	(7 Volt)	4	12	01/13>
VIVARO	2.0 CDTI (J7) Combi	2.0	66	M9R 630, 780,782,786 (7 Volt)	4	12	01/06>
	2.0 CDTI (J7) Combi	2.0	84	M9R 630,780,784,786,788 (7 Volt)	4	12	08/06>
	2.0 CDTI (F7) Furgonato	2.0	66	M9R 630, 780,788 (7 Volt)	4	12	01/06>
	2.0 CDTI (F7) Furgonato	2.0	84	M9R 630,780,784,786,788 (7 Volt)	4	12	08/06>
	2.0 CDTI (F7) Pianale piatto	2.0	66	M9R 630,782 (7 Volt)	4	12	01/06>
	2.0 CDTI (F7) Pianale piatto	2.0	84	M9R 630,780,788 (7 Volt)	4	12	08/06>

117 PHD 11,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
117 PHD	27,5	47,5	97	8	M8X1	4	11,0	5	123	4,4

Suitable to:
BERU
GN 063
0 100 276 024
BOSCH
GLP210
0 250 203 012

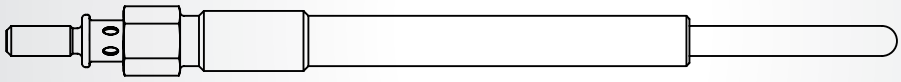
Suitable to:
MARELLI
UY12A
NGK
YE-08
FORD
1427905
6G9Q 6M090 AA

Suitable to:
MITSUBISHI
MN982294
P.S.A.
5960 G6
5960.99

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
CITROEN							
C5	2,2 HDI (RC_)	2.2	125	4HT (DW12BTED4)	4	12	04/06>
	2,2 HDI (RD_)	2.2	125	4HT (DW12BTED4)	4	12	02/08>
	2,2 HDI Break (RD_)	2.2	125	4HT (DW12BTED4)	4	12	02/08>
	2,2 HDI Break (RE_)	2.2	125	4HT (DW12BTED4)	4	12	04/06>
C6	2,2 HDI (TD_)	2.7	125	4HT (DW12BTED4)	4	12	06/06>
C8	2,2 HDI (EA, EB)	2.2	125	4HT (DW12BTED4)	4	12	06/06>
C-CROSSER	2.2 HDI (EP)	2.2	115	4HN (DW12MTED4)	4	12	02/07>
	2.2 HDI ENTERPRISE	2.2	115	4HN (DW12MTED4)	4	12	01/09>
FIAT							
ULYSSE	2.2 Multijet (179ax)	2.2	125	4HS, 4HT (DW12BTED4)	4	12	03/08>06/11
FORD							
GALAXY	2.2 TDCi	2,2	129	Q4BA,Q4WA	4	12	03/08>
MONDEO IV	2,2 TDCI	2,2	129	Q4BA	4	12	03/08>
	2,2 TDCI Tre volumi	2,2	129	Q4BA	4	12	03/08>
	2,2 TDCI Turnier	2,2	129	Q4BA	4	12	03/08>
S-MAX	2,2 TDCI	2,2	129	Q4WA	4	12	03/08>
LANCIA							
PHEDRA	2,2 JTD	2,2	120	4HP, 4HR	4	12	04/06>11/10
	2,2 Multijet	2,2	125	4HS, 4HT	4	12	03/08>11/10
PEUGEOT							
407	2.2 HDi 170 (6D_)	2.2	125	4HT (DW128BTED4)	4	12	05/06>
	2.2 HDi 170 SW (6E_)	2.2	125	4HT (DW128BTED4)	4	12	05/06>
607	2.2 Hdi (9D, 9U)	2.2	125	4HT (DW128BTED4)	4	12	05/06>
807	2,2 HDI (E)	2.2	125	4HT (DW128BTED4)	4	12	06/06>
4007	2.2 HDI (GP)	2.2	115	4HN (DW12MTED4)	4	12	02/07>
ROVER							
FREELANDER	2,2 TD4 (FA)	2,2	110	224DT, DW12BTED4	4	12	08/10>
	2,2 TD4 (FA) 4X4	2,2	110	224DT, DW12BTED4	4	12	10/06>

105 PHD 11,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
105 PHD	27,5	75	118	8	M8X1	M4	11,0	5	123	4,4

Suitable to:
ASHIKA
B106
BERU
GN 047
0 100 276 004
BOSCH
GLP059
0 250 204 001
CHAMPION
CH200/02
DELPHI
HDS399

Suitable to:
DENSO
DG-113
HKT
B-106
PT 501
MARELLI
UY1A
MOTORCRAFT
EZD 42
NGK
DP40
YE-04

Suitable to:
FORD
1148105
2S6Q6M090AA
EZD 40
EZD 42
MAZDA
Y401-18-601
MINI
12 23 7 806 041
P.S.A.
5960 12
5960 19

Suitable to:
P.S.A.
5960 E9
96 374 699 80
9637 469 980
SUZUKI
18550-73J00
TOYOTA
SU001-00671

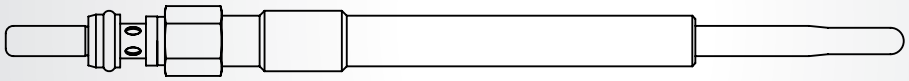
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
CITROËN							
C2	1,4 HDI (JM_)	1.4	50	8HX (DV4TD)	4	12	09/03>11/04
	1,4 HDI ENTERPRISE	1.4	50	8HX (DV4TD)	4	12	04/09>12/09
C3	1,4 HDI (FC_)	1.4	50	8HX (DV4TD)	4	12	02/02>11/04
	1,4 HDI 16V (FC)	1.4	66	8HY (DV4TED4)	4	12	02/02>11/04
	1,4 HDI 16V (FC)	1.4	66	8HY (DV4TED4)	4	12	12/04>08/05
	1,4 HDI PLURIEL (HB)	1.4	50	8HX (DV4TD)	4	12	04/04>11/04
	1,6 HDI 16V (FC)	1.6	80	9HX (DV6ATED4)	4	12	10/05>05/06
	1,6 HDI 16V (FC)	1.6	66	9HX (DV6ATED4)	4	12	10/05>05/06
C4	1.6 HDI (LA_) Coupé	1.6	80	9HY-Z (DV6TED4)	4	12	11/04>05/06
	1.6 HDI (LA_) Coupè	1.6	66	9HX (DV6ATED4)	4	12	11/04>07/10
	1.6 HDI (LC_)	1.6	66	9HX (DV6ATED4)	4	12	11/04>07/10
	1.6 HDI (LC_)	1.6	80	9HY-Z (DV6TED4)	4	12	11/04>05/06
C5	1,6 HDI (RC_)	1.6	80	9HY (DV6TED4)	4	12	10/04>05/06
	1,6 HDI Break (RE_)	1.6	80	9HY (DV6TED4)	4	12	10/04>05/06
BERLINGO	1,6 HDI 110	1.6	80	DV6TED4	4	12	08/05>05/06
	1,6 HDI 75 (MB9HW) Furgonato	1.6	55	9HW (DV6ETED), DV6B	4	12	07/05>05/06
	1,6 HDI 75 (MF)	1.6	55	9HW (DV6ETED), DV6B	4	12	07/05>05/06
	1,6 HDI 90 (MB9HX, MC9HX) Furgonato	1.6	66	9HX (DV6ATED4)	4	12	09/05>05/06
	1,6 HDI 90 (MF)	1.6	66	9HX (DV6ATED4)	4	12	09/05>05/06
XSARA	1,4 HDI (N1)	1.4	50	8HX (DV4TD)	4	12	01/03>03/05
	1,4 HDI BREAK (N2)	1.4	50	8HX (DV4TD)	4	12	01/03>08/05
	1,4 HDI COUPE' (N0)	1.4	50	8HX (DV4TD)	4	12	01/03>03/05
XSARA PICASSO	1,6 HDI (N68)	1.6	66		4	12	09/05>02/06
	1,6 HDI (N68)	1.6	80	9HY, DV6TED4	4	12	05/04>05/06
FORD							
ECOSPORT	1,4 TDCI	1,4	50	F6JC	4	12	01/03>
FIESTA	1,4 TDCI Van	1.4	50	F6JA/F6JB	4	12	10/03>10/04
	1,4 TDCI Van Tre volumi	1.4	50	F6JC	4	12	01/03>03/10

105 PHD 11,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
FORD							
FIESTA V	1,4 TDCI (JH_,JD_)	1.4	50	F6JA, F6JB	4	12	11/01>10/04
	1,6 TDCI (JH_,JD_)	1,6	66	HHJA, HHJB	4	12	11/04>05/06
FOCUS	C-MAX 1,6 TDCi	1.6	66	HHDA, HHDB	4	12	02/05>03/07
	C-MAX 1,6 TDCi	1.6	80	G8DA, G8DB	4	12	10/03>03/07
	II 1,6 TDCI TURNIER	1.6	66	HHDA, HHDB	4	12	01/05>
	II 1,6 TDCI, TURNIER	1.6	80	G8DA, G8DB	4	12	11/04>
	II 3 Vol 1,6 TDCI (DA_)	1.6	66	HHDA, HHDB	4	12	04/05>
	II 3 Vol 1,6 TDCI (DA_)	1.6	80	G8DA, G8DB	4	12	04/05>
FOCUS II	1,6 TDCI	1.6	80	G8DA, G8DB	4	12	04/05>
	1,6 TDCI (DA)	1.6	80	G8DA, G8DB, G8DD, G8DE, G8DF	4	12	11/04>05/06
	1.6 TDCI (DA)	1.6	66	GPDA, GPDC, HHDA, HHDB	4	12	01/05>05/06
	1.6 TDCi (DA) SW	1.8	66	GPDA, GPDC, HHDA, HHDB	4	12	11/04>05/06
	1.6 TDCi (DA) SW	1.8	80	G8DA, G8DB, G8DD, G8DE, G8DF	4	12	11/04>05/06
	1.6 TDCi (DA) Tre volumi	1.8	66	HHDA, HHDB	4	12	04/05>05/06
	1.6 TDCi (DA) Tre volumi	1.8	80	G8DA, G8DB, G8DD, G8DE, G8DF	4	12	04/05>05/06
FUSION	1,4 TDCI (JU_)	1.4	50	F6JA - F6JB	4	12	10/02>10/04
	1,6 TDCI	1.6	66	HHJA, HHJB	4	12	11/04>05/06
MAZDA							
2	1,4 CD (DY)	1.4	50	F6JA, F6JB	4	12	04/03>08/05
3	1.6 DI TURBO (BK)	1.6	80	Y601	4	12	06/04>06/09
	1.6 DI TURBO (BK) Tre volumi	1.6	80	Y601	4	12	06/04>12/08
PEUGEOT							
206	1,4 HDI S.W. (2E/K)	1.4	50	8HX (DV4TD)	4	12	07/02>11/04
	1,4 HDI Van	1.4	50	8HX (DV4TD), 8HZ (DV4TD)	4	12	09/01>03/09
	1,4 HDI (2A/C) 2 Volumi	1.4	51	8HX (DV4TD)	4	12	09/02>02/07
	1,4 HDI Eco 70 (2A/C) 2 Volumi	1.4	50	8HX, 8HZ (DV4TD)	4	12	09/01>11/04
	1,6 HDI 110 2 Volumi	1.6	80	9HY, 9HZ (DV6TED4)	4	12	05/04>03/07
	1,6 HDI 110 Van (2E/K)	1.6	80	9HZ (DV6TED4)	4	12	05/04>12/06
	1,6 HDI CC 110	1.6	80	9HZ (DV6TED4)	4	12	06/05>03/07
	1.6 HDI 110 (2A/C)	1.6	80	9HY (DV6TED4), 9HZ (DV6TED4)	4	12	05/04>
307	1,4 HDI (3A/C)	1.4	50	8HX (DV4TD), 8HZ (DV4TD)	4	12	10/01>11/04
	1,4 HDI BREAK (3E)	1.4	50	8HZ (DV4TD)	4	12	03/02>11/04
	1,6 HDI (3A/C)	1,6	66	9HV (DV6ATED4)	4	12	06/05>05/06
	1,6 HDI 110 (3A/C)	1.6	80	9HY, 9HZ (DV6TED4)	4	12	06/05>05/06
	1,6 HDI 110 (3H_) S.W.	1.6	80	9HY, 9HZ (DV6ATED4)	4	12	02/04>05/05
	1,6 HDI 110 BREAK (3E)	1.6	80	9HY, 9HZ (DV6ATED4)	4	12	06/05>05/06
	1,6 HDI 90 (3H_) S.W.	1.6	66	9HV (DV6ATED4)	4	12	12/06>05/07
	1,6 HDI BREAK (3E_)	1.6	66	9HV (DV6ATED4)	4	12	06/05>05/06
407	1,6 HDI 110 (6D_)	1.6	80	9HY (DV6TED4)	4	12	05/04>02/06
	1,6 HDI 110 (6E_) S.W.	1.6	80	9HY (DV6TED4)	4	12	05/04>06/06
1007	1,4 HDI (KM)	1,4	50	8HX, 8HZ (DV4TD)	4	12	04/05>01/09
PARTNER	1,6 HDI Pianale piatto	1,6	55	9HT (DV6BTED4)	4	12	01/09>
	1,6 HDI Pianale piatto	1,6	66	9HX (DV6ATED4)	4	12	04/04>
	1,6 HDI Pianale piatto	1,6	66	9HX (DV6ATED4)	4	12	01/09>02/12
RANCH	1.6 HDI	1.6	80	9HZ (DV6ATED4)	4	12	04/08>
	1.6 HDI 75 Furgonato (5)	1.6	55	9HW (DV6BTED4)	4	12	<02/06
	1.6 HDI 75 MPV Space Wagon (5F)	1.6	55	9HW (DV6BTED4)	4	12	<02/06
	1.6 HDI 90 (5F) Furgonato	1.6	66	9HX (DV6ATED4)	4	12	<02/06
	1.6 HDI 90 MPV Space Wagon (5F)	1.6	66	9HX (DV6ATED4)	4	12	<02/06
SUZUKI							
IGNIS II	1.4 DDiS (er)	1.4	66	8HY	4	12	04/04>
	1.4 DDiS Station Wagon (ER)	1.4	66	8HY	4	12	04/04>12/07
TOYOTA							
AYGO	1.4 Hdi (WNB1, KGB1)	1.4	40	2WZ-TV	4	12	07.05>08/10

100 PHD 11,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
100 PHD	28	70	119	8	M8X1	4	11,0	5	93	4

Suitable to:
ASHIKA
01-08-802
ASHUKI
1713-1008
BERU
GN 053
0 100 276 007
0 100 276 008
BOSCH
GLP016
0 250 203 002

Suitable to:
CHAMPION
CH223
DENSO
DG-171
FIAT
46779614
46796050
HINO
93 17 8047
MARELLI
UY2A

Suitable to:
NGK
DP62
Y-8003J
YE-06
OPEL GM
12 14 032
12 14 070
93 178 047
95 508 486
SUZUKI
18550-84E50

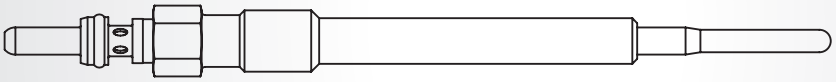
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
ALFA ROMEO							
MITO	1.3 JTDM (955)	1.3	66	199 A3.000	4	12	09/08>
FIAT							
500	1.3 D Multijet	1.3	55	169 A1.000	4	12	10/07>
	C 1.3 D MULTIJET	1.3	55	169 A1.000	4	12	09/09>
DOBLO	1,3 D Multijet (119)	1.3	62	223 A9.000	4	12	10/05>
	1,3 D Multijet (223)	1.3	55	199 A2.000	4	12	10/05>
	1,3 D Multijet (263)	1.3	66	199 A3.000, 263 A.2000	4	12	02/10>
	1,3 D Multijet 16V (263) Cargo	1.3	66	199 A3.000, 263 A.2000	4	12	02/10>
	1,3 D Multijet 16V (263) Pianale piatto	1.3	66	199 A3.000, 263 A.2000	4	12	02/10>
	1,3 JTD (119)	1.3	55	188 A2.000	4	12	05/05>
	1,3 JTD 16V (223)	1.3	51	188 A8.000, A9.000	4	12	05/04>
FIORINO	1.3 D Multijet (225)	1.3	55	199 A2.000; 199 A9.000	4	12	02/08>
IDEA	1,3 JTD	1.3	51	188 A9.000	4	12	01/04>
	1.3 D Multijet	1.3	66	199 A3.000	4	12	10/05>
LINEA	1.3 D Multijet (323)	1.3	66	199 A3.000	4	12	06/07>
PALIO	1,3 JTD Multijet (178BX)	1,3	51	188 A9.000	4	12	06/03>
	1,3 D Multijet (178BX)	1,3	55	188 A9.000	4	12	03/08>
PANDA	1,3 D Multijet (169)	1.3	51	188 A 8.000, A9.000	4	12	09/03>
	1,3 D Multijet (169)	1.3	55	169 A 1.000	4	12	06/06>
	1,3 JTD (169) VAN	1.3	51	188 A 8.000, A9.000	4	12	03/04>
	1,3 JTD (169) VAN	1.3	55	169 A 1.000	4	12	01/06>
PANDA 4X4	1,3 D Multijet (169)	1.3	51	188 A 8.000, A9.000	4	12	10/04>
	1,3 D Multijet (169)	1.3	55	169 A 1.000, A 5.000	4	12	09/10>
PUNTO/PUNTO II	1,3 JTD 16V (188)	1.3	51	188 A9.000	4	12	06/03>
	1,3 JTD 16V (188AX)	1.3	51	188 A9.000	4	12	06/03>10/05
GRANDE PUNTO	1,3 D MULTIJET	1.3	66	199 A3.000	4	12	10/05>
	1,3 D MULTIJET (199)	1.3	62	199 B4.000, 223 A9.000	4	12	04/10>
	1,3 D MULTIJET (199)	1.3	55	199 A2.000	4	12	10/05>
	1,3 D MULTIJET (199) VAN	1.3	55	199 A2.000	4	12	04/08>
PUNTO EVO	1.3 D Multijet	1.3	55	199 A2.000, 199 A9.000	4	12	10/09>02/12
	1.3 D Multijet	1.3	66	199 A3.000	4	12	10/09>02/12

100 PHD 11,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
FIAT							
QUBO	1.3 D Multijet	1.3	55	199 A2.000	4	12	09/08>
SCUDO	2.0 JTD (220L)	2.0	69	RHX	4	12	12/99>
SIENA	1.3 JTD	1.3	51	188 A9.000	4	12	09/03>
	1.3 D Multijet (178E)	1,3	51	188 A9.000	4	12	11/07>
STRADA	1.3 D Multijet (178E)	1.3	62	223 A9.000	4	12	05/06>
FORD							
KA	1.3 TDCI	1.3	55	FD4	4	12	10/08>
LANCIA							
MUSA	1,3 MULTIJET (350)	1.3	51	188 A9.000	4	12	10/04>
	1,3 MULTIJET (350)	1.3	66	199 A3.000	4	12	09/06>
YPSILON	1,3 JTD (843)	1.3	51	188 A9.000	4	12	10/03>12/11
	1.3 Multijet 843)	1.3	55	199 A2.000	4	12	06/06>12/11
	1.3 Multijet (843)	1.3	66	199 A3.000	4	12	06/06>12/11
OPEL							
AGILA	A 1,3 CDTI (H00)	1.3	51	Z13 DT	4	12	08/03>12/07
	B 1,3 CDTI (H08)	1.3	55	D13A, Z13 DTJ	4	12	004/08>
ASTRA H	H 1,3 CDTI	1.3	66	Z 13 DTH	4	12	08/05>
	H 1,3 CDTI GTC	1.3	66	Z 13 DTH	4	12	04/05>
	H 1,3 CDTI S.W.	1.3	66	Z 13 DTH	4	12	08/05>
	H 1,3 CDTI SW	1.3	66	Z 13 DTH	4	12	08/05>
	H 1,3 CDTI VAN	1.3	66	Z 13 DTH	4	12	08/05>
	H 1,3 CDTI Tre volumi	1.3	66	Z 13 DTH	4	12	02/07>
COMBO	1,3 CDTI 16V COMBO Tour	1.3	51	Y 13 DT, Z 13 DT	4	12	10/04>
	1,3 CDTI 16V COMBO Tour	1.3	55	Z 13 DTJ	4	12	10/05>
	1,3 CDTI 16V Cassone,Furgonato,Promiscuo	1.3	51	Z 13 DT	4	12	08/05>
	1,3 CDTI 16V Cassone,Furgonato,Promiscuo	1.3	55	Z 13 DTJ	4	12	10/05>
CORSA	C 1,3 CDTI 16V Furgonato (F08,W5L)	1.3	51	Z 13 DT	4	12	08/05>
	C 1,3 CDTi (F08, F68)	1.3	51	Z 13 DT	4	12	06/03>
	D - 1.3 CDTI	1.3	55	A 13 DTC, Z 13 DTJ	4	12	07/06>
	D - 1.3 CDTI	1.3	66	Z 13 DTH	4	12	07/06>
	D - 1.3 CDTI VAN	1.3	55	A 13 DTC, Z 13 DTJ	4	12	07/06>
	D - 1.3 CDTI VAN	1.3	66	Z 13 DTH	4	12	07/06>
MERIVA	1,3 CDTI	1.3	51	Y 13 DT, Z 13 DT	4	12	04/05>05/10
	1,3 CDTI	1.3	55	Z 13 DTJ	4	12	09/03>05/10
TIGRA	1,3 CDTI TWIN TOP	1.3	51	Z 13 DT	4	12	06/04>
SUZUKI							
IGNIS II	1,3 DDIS	1.3	51	Z 13 DT	4	12	09/03>
SPLASH	1.3 CDTI	1.3	55	D13A, Z 13 DTJ	4	12	01/08>
SWIFT III	1,3 DDIS (MZ, EZ)	1.3	51	Z 13 DT	4	12	08/05>
SWIFT	1,3 DDIS (MZ, EZ)	1.3	55	D 13 A, Z 13 DTJ	4	12	08/05>
SWIFT IV	1,3 DDIS (MZ, EZ)	1.3	55	D13A	4	12	10/10>
WAGON R+	1,3 DDIS (MM)	1.3	51	Z 13 DT	4	12	09/03>
VAUXHALL							
AGILA	A 1.3 CDTI MKI	1.3	51	Z 13 DT	4	12	08/03>03/08
	B 1.3 CDTI MK II	1.3	55	D 13 A, Z 13 DTJ	4	12	01/08>
ASTRA	1,3 CDTI MK V (H)	1.3	66	Z 13 DTH	4	12	01/04>05/09
	1,3 CDTI MK V (H) S.W.	1.3	66	Z 13 DTH	4	12	08/04>03/09
ASTRAVAN	1,3 CDTI MK V (H)	1.3	66	Z 13 DTH	4	12	08/05>
COMBO	C 1.3 CDTI 16V Mk II (W5L, F08)	1.3	55	Z 13 DT	4	12	08/00>09/06
	C 1.3 CDTI 16V Mk II (F25) Furgonato	1.3	55	Z 13 DTJ	4	12	10/05>11/11
CORSA	D 1,3 CDTI 16V MK III (L8)	1.3	55	A 13 DTC, Z 13 DTJ	4	12	11/06>
	D 1,3 CDTI 16V MK III (L8)	1.3	66	A 13 DTH	4	12	11/06>
CORSAVAN	C 1,3 CDTI 16V MK II	1.3	52	Z 13 DT	4	12	04/04>06/06
	D 1,3 CDTI 16V MK III	1.3	55	Z 13 DTJ	4	12	07/06>
MERIVA	A 1,3 CDTI Mk I	1.3	51	Y 13 DT, Z 13 DT	4	12	04/05>06/10
	A 1,3 CDTI Mk I	1.3	55	Z 13 DTJ	4	12	01/03>10/09
TIGRA	1,3 CDTI Twin Top	1.3	51	Z 13 DT	4	12	06/04>08/09

139 PHD 11,0 V

NEW



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
139 PHD	28	70	119,5	9	M9X1	4	11,0	5	93	4

Suitable to:
FIAT
55210051 (4,4 V)
OPEL
18 26 357 (4,4 V) 55 564 219 (4,4 V)
BERU
GE112 (4,4 V) 0100266025 (4,4 V) 0100266031 (4,4 V)

139 PHD è una variante 11V adatta a rimpiazzare (per esigenze particolari) i seguenti codici che corrispondono al nostro modello 134 PHD (4,4V) utilizzate sui nuovi propulsori 1.3 JTD Fiat e Opel:

- Cod. FIAT 55210051 (4,4V)
- Cod. OPEL 18 26 357 e 55 564 219 (4,4V)
- Cod. BERU GE112 -0100266025 – 0100266031 (4,4V)

Questo speciale prodotto è stato realizzato per ovviare all'incompatibilità tra candeletta e impianto elettrico in caso di sostituzione del nuovo propulsore su vecchi veicoli. In caso di sostituzione viene fornito il nuovo motore dotato di candelette a 4,4V mentre l'impianto elettrico originale del vecchio veicolo alimenta a 11V.

Non esistono candelette compatibili a 11V sul mercato per cui abbiamo soddisfatto l'esigenza degli installatori di avere la candeletta adeguata una volta eseguita la sostituzione del propulsore.

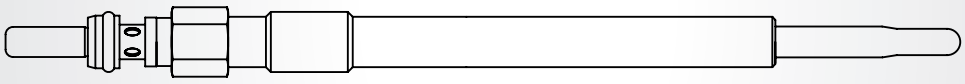
139 PHD *is a 11V glow plug that we manufacture to replace the following codes corresponding to our ref. 134 PHD4,4V, specially conceived to fit Fiat and Opel 1.3 JTD when substituting the engine on the elder vehicles:*

- *FIAT 55210051 (4,4V)*
- *OPEL 18 26 357 e 55 564 219 (4,4V)*
- *BERU GE112 -0100266025 – 0100266031 (4,4V)*

The new engine will be in fact equipped with 4,4V glow plugs but powered by the original wiring at 11V. No glow plugs can be actually found on the market suitable to be installed in such circumstances, hence the need of a new model.

101 PHD 11,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
101 PHD	25	80	126,5	8	M8X1	4	11,0	5	93	4

Suitable to:
BERU
GN 045
0 100 276 002
0 100 276 005
0 100 276 006
BOSCH
GLP115
0 250 203 004

Suitable to:
CHAMPION
CH240
DELPHI
HDS404
DENSO
DG-140

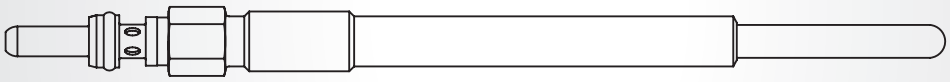
Suitable to:
FORD
4U3Q-6M090-AA
4U3Q-6M090-AB
4U3Q-AA
4U3Q-AB
JAGUAR
02 JD 61604
MARELLI
UY4A

Suitable to:
NGK
YE-12
P.S.A.
5960 76
5960 77
5960.76
5960.77
VOLVO
8631607

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
CITROËN							
C5	2.7 HDI (RD_)	2.7	150	DT17ED4 (4,4 Volt)	6	12	02/08>
	2.7 HDI (TD_) Break	2.7	150	DT17ED4, UHZ DT17BTED4	6	12	02/08>
C6	2,7 HDI (TD)	2.7	150	DT17ED4, UHZ DT17BTED4	6	12	09/05>
JAGUAR							
S-TYPE	2,7 D (CCX)	2,7	152	AJD	6	4	06/04>10/07
X-TYPE	2,7 D XF (J05, CC9)	2,7	152	AJD	6	12	03/08>
	2,7 D 6 (X350, X358)	2,7	152	AJD	6	12	10/05>03/09
PEUGEOT							
407	2.7 HDI (6D_)	2.7	150	UHZ (DT17)	6	12	10/05>
	2.7 HDI (6E_) SW	2.7	150	UHZ (DT17)	6	12	10/05>
	2.7 HDI (6C_) COUPE'	2.7	150	UHZ (DT17)	6	12	10/05>
607	2,7 HDI (9D, 9U) 24V	2.7	150	DT17TED4	6	12	12/04>
ROVER							
DICOVERY III	2,7 TD (TAA)	2,7	140	276DT			07/04>09/09
LAND ROVER	2.7 TD DISCOVERY III	2.7	140	276DT (4,0 Volt)	6	12	07/04>
RANGE ROVER	2.7 TDVM (LS) SPORT	2.7	140	276DT	6	12	02/05>
	3.6 TD 8	3.6	200	368DT	6	12	04/06>
VOLVO							
S 60	2,4 D	2.4	96	D 5244T2	5	12	12/01>
	2,4 D	2,4	96	D 5244 T2	5	12	12/01>04/10
	2,4 D5	2.4	120	D 5244T	5	12	07/01>04/10
S 80	2,4 D (TS, XY)	2.4	96	D 5244T2	5	12	10/01>07/06
	2,4 D5 (TS, XY)	2.4	120	D 5244T	5	12	08/01>07/06
V 70 II	2,4 D (P80)	2.4	96	D 5244T2	5	12	12/01>08/07
	2,4 D5 (P80)	2.4	120	D 5244T, D 5244 T5	5	12	08/01>08/07
	2,4 D5 AWD (P80)	2.4	120	D 5244T, D 5244 T5	5	12	03/03>08/07
XC 70	2,4 D5 XC AWD	2.5	120	D 5244T	5	12	09/02>08/07
XC 90	2,4 D5	2.4	120	D 5244T, D 5244 T5	5	12	10/02>

119 PHD 11,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
119 PHD	27,5	75	124,5	8	M8X1	4	11,0	5	123	4,4

Suitable to:
BERU
0 100 276 012
GN 056
BOSCH
GLP094
GLP094
0 250 204 002
CHAMPION
CH 201
DELPHI
HDS416

Suitable to:
DENSO
DG-180
HKT
B-123
MARELLI
UY5A
NGK
DP73
YE-05
BMW
12 23 7 806 041

Suitable to:
FIAT
9650100080
FORD
1369590
1447128
2S6Q6M090BA
2S6Q6M090BB
MAZDA
Y404-18-601
Y404-18-601A

Suitable to:
P.S.A.
5960 78
5960 79
5960 F9
5960.78
5960.79
VOLVO
31216248

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
CITROËN							
C1	1,4 HDI (PM, PN)	1.4	40	DVD4	4	12	06/05>
C2	1,4 HDI (JM_)	1.4	50	8HX (DV4TD)	4	12	12/04>12/09
	1,6 HDI (JM_)	1.6	80	9HZ (DV6TED4)	4	12	07/07>05/09
C3	1,4 HDI (FC_)	1.4	50	8HX (DV4TD)	4	12	12/04>08/05
	1,4 HDI (FC_)	1.4	55		4	12	09/05>09/09
	1,4 HDI PLURIEL (HB)	1.4	50	8HX (DV4TD)	4	12	12/04>01/10
	1,6 HDI 16V	1.6	80	DV6TED4	4	12	06/06>05/09
	1,6 HDI 16V (FC)	1.6	66	9HX (DV6ATED4)	4	12	06/06>12/09
C3 II	1,4 HDI 70	1,4	50	8HR (DV4C), 8HZ (DV4TD)	4	12	11/09>
	1,6 HDI 90	1,6	66	9HX DV6ATED4	4	12	11/09>
C3 PICASSO	1,6 HDI Picasso	1.6	66	9HX DV6ATED4	4	12	02/09>12/11
	1,6 HDI Picasso	1.6	80	9HZ DV6TED4	4	12	02/09>12/11
C4	1.6 HDI (LA_) Coupé	1.6	80	9HY-Z (DV6TED4)	4	12	06/06>07/10
	1.6 HDI (LA_) Coupè	1.6	66	9HX (DV6ATED4)	4	12	05/07>07/09
	1.6 HDI (LC_)	1.6	66	9HX (DV6ATED4)	4	12	05/07>07/09
	1.6 HDI (LC_)	1.6	80	9HY-Z (DV6TED4)	4	12	06/06>09/10
	1.6 HDI Tre volumi	1.6	80	9HY-Z (DV6TED4)	4	12	07/06>12/10
C4 PICASSO	1,6 HDI UD_)	1.6	80	9HY-Z (DV6TED4)	4	12	02/07>12/11
C4 Grand PICASSO	1,6 HDI (UA_)	1.6	80	9HY-Z (DV6TED4)	4	12	10/06>12/11
C5	1,6 HDI (RC_)	1.6	80	9HY (DV6TED4)	4	12	06/06>03/08
	1,6 HDI (RD_)	1.6	80	9HZ (DV6TED4)	4	12	04/08>07/10
	1,6 HDI Break (RE_)	1.6	80	9HY (DV6TED4)	4	12	06/06>03/08
	1,6 HDI Break (TD_)	1.6	80	9HZ (DV6TED4)	4	12	04/08>07/10
BERLINGO	1,6 HDI 110	1.6	80	9HZ (DV6TED4)	4	12	05/08>11/11
	1,6 HDI 110	1.6	80	9HZ (DV6TED4)	4	12	04/08>
	1,6 HDI 110 Furgonato	1.6	80	9HZ (DV6TED4)	4	12	04/08>
	1,6 HDI 75 (MB9HW) Furgonato	1.6	55	9HW (DV6ETED), DV6B	4	12	06/06>04/08
	1,6 HDI 75 (MF9HW)	1.6	55	(9HN,9HW (DV6ETED), 9HT(DV6BTED4)	4	12	04/08>
	1,6 HDI 75 (MF9HW)	1.6	55	9HW (DV6ETED), DV6B	4	12	06/06>04/08
	1,6 HDI 75 (MF9HW) Furgonato	1.6	55	(9HN,9HW (DV6ETED), 9HT(DV6BTED4)	4	12	04/08>
	1,6 HDI 90	1.6	66	9HX (DV6ATED4)	4	12	04/08>
	1,6 HDI 90 (MB9HX, MC9HX) Furgonato	1.6	66	9HX (DV6ATED4)	4	12	06/06>04/08

119 PHD 11,0 V

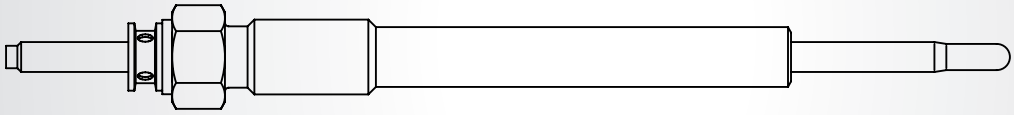
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
CITROËN							
BERLINGO	1,6 HDI 90 (MF9HX)	1.6	66	9HX (DV6ATED4)	4	12	06/06>04/08
	1,6 HDI 90 Furgonato	1.6	66	9HX (DV6ATED4)	4	12	04/08>
	1,6 HDI 90 Furgonato	1.6	66	9HX (DV6ATED4)	4	12	04/08>
NEMO	1.4 HDI S.W.	1.4	50	8HS (DV4TD)	4	12	04/09>
	1.4 HDI Furgonato (AA_)	1.4	50	8HS (DV4TD)	4	12	02/08>
XSARA	1,4 HDI (N1)	1.4	50	8HX (DV4TD)	4	12	12/04>
	1,4 HDI BREAK (N2)	1.4	50	8HX (DV4TD)	4	12	12/04>
	1,4 HDI COUPE' (N0)	1.4	50	8HX (DV4TD)	4	12	12/04>
XSARA PICASSO	1,6 HDI (N68)	1.6	66		4	12	06/06>04/10
	1,6 HDI (N68)	1.6	80	DV6TED4	4	12	06/06>04/10
JUMPY	1,6 HDI 90, Furgonato	1.6	66	9HU (DV6UTED4)	4	12	02/07>
FORD							
C-MAX	1,6 TDCi	1.6	66	GPDA, HHDA, HHDB	4	12	03/07>07/10
	1,6 TDCi	1.6	80	G8DA, G8DB, G8DD	4	12	03/07>07/10
FIESTA	1,4 TDCI Van	1.4	50	F6JA/F6JB	4	12	11/04>09/08
	1,4 TDCI Van	1.4	50	F6JB	4	12	01/09>11/12
	1,4 TDCI Van	1.4	51	F6JD, KVJA	4	12	07/10>11/12
	Van 1,6 TDCI	1,6	66	HHJC, HHJD, HHJE	4	12	01/09>11/12
	1,6 TDCI (WS) Australia	1,6	66	HHJD	4	12	01/09>11/12
	1,6 TDCI (Wt) 2 Volumi Australia	1,6	66	HHJC	4	12	10/10>11/12
FIESTA V	1,4 TDCI (JH_,JD_)	1.4	50	F6JA, F6JB	4	12	11/04>09/08
	1,6 TDCI	1.6	66	HHJA, HHJB	4	12	06/06>09/08
FIESTA VI	1,4 TDCI	1,4	50	F6JB	4	12	01/09>11/12
	1,4 TDCI	1,4	51	F6JB, KVJA	4	12	07/10>11/12
	1,6 TDCI	1,6	55	HHJF, UBJA	4	12	01/09>11/12
	1,6 TDCI	1,6	66	HHJC, HHJD, HHJE	4	12	10/08>11/12
FIGO	1,4 TDCi	1,4	51	F6JB	4	12	01/10>
FOCUS	C-MAX 1,6 TDCi	1.6	66	HHDA, HHDB	4	12	06/06>
	C-MAX 1,6 TDCi	1.6	80	G8DA, G8DB	4	12	06/06>
FOCUS II	1,6 TDCI (DA)	1.6	80	G8DA, G8DB, G8DD, G8DE, G8DF	4	12	06/06>12/11
	1.6 TDCI (DA)	1.6	66	GPDA, GPDC, HHDA, HHDB	4	12	06/06>12/11
	1.6 TDCi (DA) SW	1.8	66	GPDA, GPDC, HHDA, HHDB	4	12	06/06>12/11
	1.6 TDCi (DA) SW	1.8	80	G8DA, G8DB, G8DD, G8DE, G8DF	4	12	06/06>12/11
	1.6 TDCi (DA) SW	1.8	81		4	12	12/07>12/11
	1.6 TDCi (DA) Tre volumi	1.8	66	HHDA, HHDB	4	12	06/06>12/11
	1.6 TDCi (DA) Tre volumi	1.8	80	G8DA, G8DB, G8DD, G8DE, G8DF	4	12	06/06>12/11
FUSION	1,4 TDCI (JU_)	1.4	50	F6JA - F6JB	4	12	11/04>06/12
	1,6 TDCI (JU)	1.6	66	HHJA, HHJB	4	12	06/06>06/12
IKON	1,4 TDCi Duratorq	1,4	50	F6JA	4	12	04/09>
MAZDA							
2	1,4 CD (DY)	1.4	50	F6JA, F6JB	4	12	09/05>06/07
	1.6 MZR-CD (DE)	1.4	50		4	12	01/08>09/10
	1.6 MZ-CD (DE)	1.6	66		4	12	11/08>07/10
3	1.6 MZR-CD (BL)	1,6	80	Y601	4	12	06/09>07/11
	1.6 MZR-CD (BL) Tre volumi	1,6	80	Y601	4	12	06/09>07/11
MINI							
MINI COOPER D	1,6 D (R56)	1.6	80	9HZ (DV6TED4)	4	12	03/07>07/10
	1,6 D CLUBMAN (R55)	1.6	80	9HZ (DV6TED4)	4	12	11/07>07/10
	1,6 D (R56)	1,6	66	9HZ (DV6TED4)	4	12	09/09>
PEUGEOT							
107	1,4 HDI	1.4	40	8HT (DV4TD)	4	12	06/05>
206	1,4 HDI (2A/C) 2 Volumi	1.4	51	8HX (DV4TD)	4	12	12/04>02/07
	1,4 HDI (2E/K) S.W.	1.4	50	8HX (DV4TD)	4	12	12/04>12/06
	1,4 HDI + Eco 70 (T3E)	1.4	50	8HX (DV4TD), 8HZ (DV4TD)	4	12	03/09>
	1,4 HDI Eco 70 (2A/C) 2 Volumi	1.4	50	8HX (DV4TD), 8HZ (DV4TD)	4	12	12/04>02/09
	1,4 HDI Eco 70 3 Volumi	1.4	50	8HZ (DV4TD)	4	12	09/08>12/10

119 PHD 11,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
PEUGEOT							
206	1,4 Van HDI (2A/C)	1.4	50	8HX (DV4TD), 8HZ (DV4TD)	4	12	12/04>02/09
	1.6 HDI 110	1.6	80	9HY (DV6TED4), 9HZ (DV6TED4)	4	12	05/04>
207	1,4 HDI (WA_, WC_)	1.4	50	8HR (DV4TD), 8HZ (DV4TD)	4	12	05/06>04/10
	1,4 HDI Van	1.4	50	8HZ (DV4TD)	4	12	04/07>04/10
	1,6 HDI (WA_, WC_)	1.6	66	9HX (DV6ATED4)	4	12	05/06>04/11
	1,6 HDI (WA_, WC_)	1.6	80	9HY, 9HZ (DV6TED4)	4	12	05/06>04/10
	1,6 HDI CC (WD_)	1.6	80	9HZ (DV6TED4)	4	12	03/07>02/11
	1,6 HDI Van (WA_, WC_)	1.6	66	9HX (DV6ATED4)	4	12	04/07>04/10
	1,6 HDI S.W. (WK_)	1.6	66	9HZ (DV6ATED4)	4	12	06/07>04/11
	1,6 HDI S.W. (WK_)	1.6	80	9HZ (DV6TED4)	4	12	06/07>04/10
307	1,4 HDI (3A/C)	1.4	50	8HX (DV4TD), 8HZ (DV4TD)	4	12	12/04>05/05
	1,4 HDI BREAK (3E)	1.4	50	8HZ (DV4TD)	4	12	12/04>05/05
	1,6 HDI 110 (3A/C)	1.6	80	9HY, 9HZ (DV6TED4)	4	12	06/06>08/07
	1,6 HDI 110 BREAK (3E)	1.6	80	9HY, 9HZ (DV6ATED4)	4	12	06/06>05/08
	1,6 HDI 110 S.W. (3H_)	1.6	80	9HY, 9HZ (DV6ATED4)	4	12	06/06>05/08
	1,6 HDI 90 S.W. (3H_)	1.6	66	9HV (DV6ATED4)	4	12	06/07>05/08
	1,6 HDI BREAK (3E_)	1.6	66	9HV (DV6ATED4)	4	12	06/06>05/08
308	1.6 HDI (4A_,4C_)	1.6	66		4	12	09/07>03/10
	1.6 HDI (4A_,4C_)	1.6	80	9HZ (DV6TED4)	4	12	09/07>03/10
	1.6 HDI S.W.	1.6	66	9HV, 9HX (DV6ATED4)	4	12	05/08>03/10
	1.6 HDI S.W.	1.6	80	9HZ (DV6ATED4)	4	12	05/08>03/10
407	1,6 HDI 110 (6D_)	1.6	80	9HY (DV6TED4)	4	12	07/06>02/11
	1,6 HDI, S.W. (6E_)	1.6	80	9HY (DV6TED4)	4	12	07/06>02/11
1007	1,6 HDI (KM)	1.6	80	9HZ (DV6TED4)	4	12	06/07>02/11
3008	1,6 HDI	1.6	80	9HZ (DV6TED4)	4	12	06/09>
5008	1,6 HDI	1.6	80	9HZ (DV6TED4)	4	12	09/09>
BIPPER	1.4 HDI (AA)	1.4	50	8HS (DV4TD)	4	12	02/08>
	1.4 HDI Tepee	1.4	50	8HS (DV4TD)	4	12	04/08>
EXPERT	1.6 HDI 90 Tepee (V3FV_)	1.8	66	9HU (DV6UTED4)	4	12	02/07>
	1.6 HDI 90 Furgonto (VF3A,U,X_)	1.8	66	9HU (DV6UTED4)	4	12	02/07>
	1.6 HDI 90 Pianale piatto	1.8	66	9HU (DV6UTED4)	4	12	02/07>
PARTNER	1,6 HDI Pianale piatto	1,6	55	9HT (DV6BTED4)	4	12	01/09>02/12
RANCH	1.6 HDI	1.6	55	9HT (DV6BTED4)	4	12	05/08>02/12
	1.6 HDI	1.6	66	9HX (DV6ATED4)	4	12	05/08>02/12
	1.6 HDI	1.6	80	9HZ (DV6TED4)	4	12	05/08>02/12
	1.6 HDI 75 Furgonato (5)	1.6	55	9HW (DV6BTED4)	4	12	03/06>04/08
	1.6 HDI 75 MPV Space Wagon (5F)	1.6	55	9HW (DV6BTED4)	4	12	03/06>04/08
	1.6 HDI 90 Furgonato (5)	1.6	66	9HX (DV6ATED4)	4	12	03/06>04/08
	1.6 HDI 90 MPV Space Wagon (5F)	1.6	66	9HX (DV6ATED4)	4	12	03/06>04/08
	1.6 HDI Furgonato	1.6	55	9HT (DV6BTED4)	4	12	05/08>02/12
	1.6 HDI Furgonato	1.6	66	9HX (DV6ATED4)	4	12	05/08>02/12
	1.6 HDI Furgonato	1.6	80	9HZ (DV6TED4)	4	12	05/08>02/12
SUZUKI							
SANTANA	300/350 1.6 D	1.6	66	DV6TED4	4	12	09/98>
	1,6 D	1,6	66	DV6 (TED4)	4	12	09/98>
VOLVO							
C 30	1,6 D	1,6	80	D 4164 T	4	12	10/06>07/11
S 40 II	1,6 D (MS)	1.6	81	D 4164 T	4	12	01/05>
S 80 II	1,6 D DRIVe (AS)	1.6	80	D 4164 T	4	12	01/10>07/11
V 50	1,6 D (MW)	1.6	81	D 4164 T	4	12	01/05>07/10
V 70 III	1,6 D	1.6	80	D 4164 T	4	12	01/10>07/11

150 PHD 11,0 V

APP UPDATES

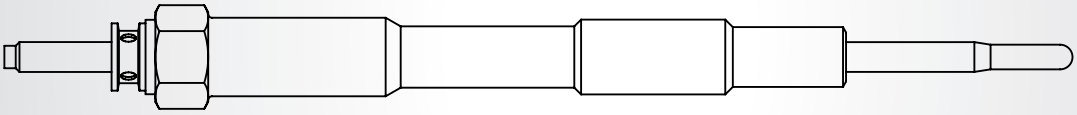


ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
150 PHD	29	82	133	12	M10X1,25	M4	11,0	5	123	4

Suitable to:
NGK
CZ-203
DP68
HYUNDAI
36710-2A700
KIA
36710-2A700

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
HYNDAI							
Ix35	1,7 CRDI (LM)	1,7	85	D4FD	4	12	11/10>
Ix40	1,7 CRDI (VF)	1,7	85	D4FD	4	12	07/11>
Ix40	1,7 CRDI (VF)	1,7	100	D4FD	4	12	07/11>
KIA							
CEE'D	1,6 CRDI 115 (ED) 2 Volumi	1,6	85	D4FB	4	12	10/10>
	1,6 CRDI 115 (ED) SW	1,6	85	D4FB	4	12	10/10>
	1,6 CRDI 128 (ED) 2 Volumi	1,6	94	D4FB	4	12	10/10>
	1,6 CRDI 128 (ED) SW	1,6	94	D4FB	4	12	10/10>
	1,6 CRDI 90 (ED) 2 Volumi	1,6	66	D4FB-L	4	12	10/10>
	1,6 CRDI 90 (ED) S.W.	1,6	66	D4FB-L	4	12	10/10>
PRO CEE'D	1,6 CRDi 90 (ED)	1.6	66	D4FB-L	4	12	10/10>
	1,6 CRDi 115 (ED)	1.6	85	D4FB	4	12	10/10>
SPORTAGE	1,7 CRDI (SL)	1,7	85	D4FD-L	4	12	02/11>
VENGA	1.4 CRDi 75 (YN)	1.4	55	D4FC	4	12	02/10>
	1.4 CRDi 75 (YN)	1.4	57	D4FC	4	12	02/10>
	1.4 CRDi 90 (YN)	1.4	66	D4FC	4	12	02/10>
	1.6 CRDi 115 (YN)	1.6	85	D4FB	4	12	02/10>
	1.6 CRDi 128 (YN)	1.6	94	D4FB	4	12	02/10>

153 PHD 11,0 V



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
153 PHD	30	91,5	141,5	12	M10X1,25	M4	11,0	5	123	4

Suitable to:

ASHIKA

01-03-305

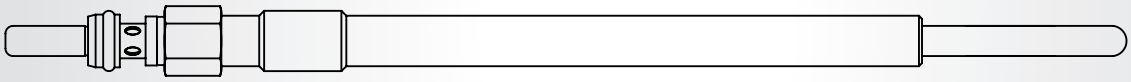
MAZDA

R2AA-18-601

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
MAZDA							
3	2.2 MZR-CD (BL)	2.2	110		4	12	06/09>
	2.2 MZR-CD (BL)	2.2	136		4	12	06/09>
	2.2 MZR-CD (BL) Tre volumi	2,2	136		4	12	06/09>
6	2.2 MZR-CD (GH)	2.2	92		4	12	01/09>
	2.2 MZR-CD (GH)	2.2	120		4	12	01/09>
	2.2 MZR-CD (GH)	2,2	132		4	12	01/10>
	2.2 MZR-CD (GH)	2.2	136		4	12	01/09>
	2.2 MZR-CD (GH) S.W.	2.2	92		4	12	01/09>
	2.2 MZR-CD (GH) S.W.	2.2	120		4	12	01/09>
	2.2 MZR-CD (GH) S.W.	2,2	132		4	12	01/10>
	2.2 MZR-CD (GH) S.W.	2.2	136		4	12	01/09>
CX-7	2.2 MZR-CD (ER)	2.2	127		4	12	09/09>

113 PHD 11,5 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
113 PHD	27	100	148,5	8	M8X1	4	11,5	5	93	4

Suitable to:
BERU
GN 058
0 100 276 009
0 100 276 014
DELPHI
HDS 428
HKT
PM 169

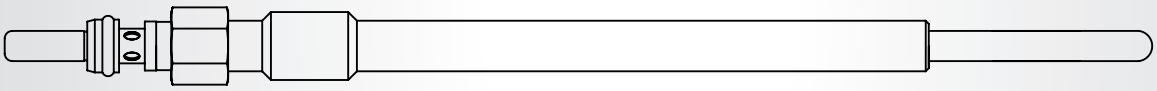
Suitable to:
MARELLI
UY13A
MERCEDES
001 159 46 01
MITSUBISHI
MN960270
MN960296

Suitable to:
NGK
YE-13
SMART
A 001 159 46 01
001 159 46 01

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
MITSUBISHI							
COLT VI	1,5 DI-D (Z3_A, Z2_A)	1.5	50	OM639.939	3	12	08/04>
	1,5 DI-D (Z3_A, Z2_A)	1.5	70	OM639.939	3	12	08/04>
SMART							
FORFOUR	1,5 CDI (454.000)	1.5	50	454.000	3	12	09/04>06/06
	1,5 CDI (454.001)	1.5	70	454.001	3	12	09/04>06/06

103 PHD 11,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
103 PHD	29,5	100	151,5	9	M9X1	4	11,0	5	93	4

Suitable to:
BERU
GN 059
0 100 276 010
0 100 276 015
BOSCH
GLP043
0 250 203 001
CHAMPION
CH224

Suitable to:
DELPHI
HDS409
DENSO
DG-170
ALFA ROMEO / FIAT
46792355
MARELLI
UY3A

Suitable to:
NGK
YE-07
ALFA ROMEO
46792355
93 178 411
FIAT
46792355
55187863

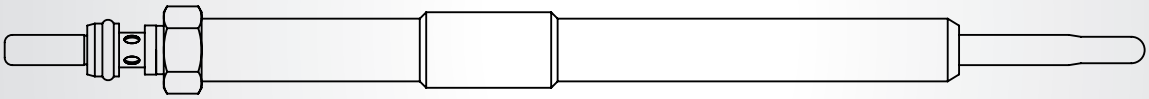
Suitable to:
G.M.
93 178 411
95 508 487
OPEL GM
12 14 034
12 14 071
55 187 863
93 178 411
95 508 487

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
ALFA ROMEO							
ALFA 147	1,9 JTD 16V (937)	1,9	93	937 A4.000	4	12	09/03>09/04
	1,9 JTD 16V (937)	1,9	100	192 B1.000	4	12	10/04>03/10
	1,9 JTD 16V (937)	1.9	103	192 A5.000	4	12	11/02>03/10
	1,9 JTDM 16V (937)	1.9	110	937 A5.000	4	12	07/05>03/10
ALFA 156	1,9 JTD (932) S.W.	1,9	93	937 A4.000	4	12	11/03>05/06
	1,9 JTD 16V (932)	1,9	93	937 A4.000	4	12	11/03>09/05
	1,9 JTD 16V (932)	1,9	100	192 B1.000	4	12	11/02>11/04
	1,9 JTD 16V (932) 16V	1.9	103	192 A5.000	4	12	11/02>09/05
	1,9 JTD 16V (932) 16V S.W.	1.9	103	192 A5.000	4	12	11/02>05/06
	1,9 JTD 16V (932) S.W.	1,9	100	192 B1.000	4	12	11/02>11/04
	1,9 JTD 16V (932) S.W.	1.9	110	937 A5.000	4	12	03/05>05/06
	1,9 JTD 16V Q4 (932) S.W.	1.9	110	937 A5.000	4	12	07/04>05/06
	1,9 JTDM 16V (932)	1.9	110	937 A5.000	4	12	07/04>09/05
	2.4 JTD (932)	2.4	120	841 M.000,N.000	5	12	06/03>09/05
	2.4 JTD (932)	2.4	129	841 G.000	5	12	10/03>09/05
	2.4 JTD (932) S.W.	2.4	120	841 M.000,N.000	5	12	06/03>05/06
	2.4 JTD (932) S.W.	2.4	129	841 G.000	5	12	10/03>05/06
ALFA 159	1,9 JTDM 16V (939)	1,9	100	937 A8.000 - 939 A8.000	4	12	09/05>11/11
	1,9 JTDM 16V (939)	1.9	110	939 A2.000	4	12	09/05>11/11
	1,9 JTDM 16 V S.W. (939)	1,9	100	937 A8.000	4	12	03/06>11/11
	1,9 JTDM 16 V S.W. (939)	1.9	110	939 A2.000	4	12	03/06>11/11
	2,4 JTDM (939)	2.4	147	939 A3.000	5	12	09/05>11/11
	2,4 JTDM (939)	2.4	154	939 A9.000	5	12	05/07>11/11
	2,4 JTDM (939) S.W.	2.4	147	939 A3.000	5	12	03/06>11/11
	2,4 JTDM (939) S.W.	2.4	154	939 A9.000	5	12	05/07>11/11
ALFA 166	2,4 JTD (936)	2.4	129	841 G.000, 841 H.000	5	12	10/03>06/07
	2,4 JTD (936)	2.4	132	841 M.000	5	12	07/06>06/07
	2,4 JTD (936)	2.4	136	841 M.000, 936 B.000	5	12	07/05>06/07
ALFA GT	1,9 JTD (937)	1.9	110	937 A5.000	4	12	11/03>09/10
BRERA	2.4 JTDM 20V	2.4	147	939 A3.000	5	12	01/06>

103 PHD 11,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
ALFA ROMEO							
SPIDER	2.4 JTDM 20V (939)	2.4	147	939 A3.000	5	12	04/07>
	2.4 JTDM 20V (939)	2.4	154	939 A3.000	5	12	03/08>
CADILLAC							
BLS	1.9 D	1.9	110	Z19DTH	4	12	04/06>
FIAT							
BRAVA / BRAVO	1.9 D Multijet	1.9	110		4	12	04/07>
BRAVO II	1.9 D Multijet (198)	1.9	110	937 A5.000	4	12	04/07>
CROMA	1,9 D MULTIJET (194)	1.9	100	939 A8.000	4	12	12/05>
	1,9 D MULTIJET (194)	1.9	110	939 A2.000	4	12	06/05>
	2,4 D MULTIJET (194)	2.4	147	939 A3.000	5	12	06/05>
STILO	1,9 D MULTIJET (192)	1.9	110	937 A.5000	4	12	09/05>11/06
	1,9 D MULTIJET M.W. (192)	1.9	110	937 A.5000	4	12	09/05>08/08
	1,9 JTD (192)	1,9	93	937 A.4000	4	12	09/03>11/06
	1,9 JTD (192)	1.9	103	192 A5.000	4	12	01/04>11/06
	1,9 JTD (192) M.W.	1,9	93	937 A.4000	4	12	09/03>08/08
	1,9 JTD (192) M.W.	1.9	103	192 A5.000	4	12	01/04>08/08
LANCIA							
THESIS	2,4 JTD (841AX)	2.4	129	841 G.000	5	12	05/03>07/09
OPEL							
ASTRA H	H 1,9 CDTI GTC	1.9	110	Z 19 DTH	4	12	03/05>
	H 1,9 CDTI GTC 16V	1.9	88	Z 19 DTJ	4	12	03/05>
	H 1,9 CDTI	1.9	110	Z 19 DTH	4	12	09/04>
	H 1,9 CDTI 16V	1.9	88	Z 19 DTJ	4	12	04/04>
	H 1,9 CDTI 16V .S.W.	1.9	88	Z 19 DTJ	4	12	08/04>
	H 1,9 CDTI 16V VAN	1.9	88	Z 19 DTJ	4	12	08/04>
	H 1,9 CDTI S.W.	1.9	110	Z 19 DTH	4	12	09/04>
	H 1,9 CDTI TWIN TOP	1.9	110	Z 19 DTH	4	12	09/05>
	H 1,9 CDTI VAN	1.9	110	Z 19 DTH	4	12	09/04>
SIGNUM	1,9 CDTI	1.9	110	Z 19 DTH	4	12	04/04>
VECTRA C	C 1,9 CDTI	1.9	110	Z 19 DTH	4	12	04/04>
	C 1,9 CDTI, GTS	1.9	110	Z 19 DTH	4	12	04/04>
	C 1,9 CDTI S.W.	1.9	110	Z 19 DTH	4	12	04/04>
ZAFIRA	C 1,9 CDTI	1.9	110	Z 19 DTH	4	12	07/05>
SAAB							
9-3	1,9 TID (YS3F)	1.9	110	Z 19 DTH	4	12	09/04>
	1,9 TID (YS3F) CABRIOLET	1.9	110	Z 19 DTH	4	12	01/06>
	1,9 TID (YS3F) S.W.	1.9	110	Z 19 DTH	4	12	03/05>
9-5	1.9 TiD (YS3E)	1.9	110	Z 19 DTH	4	12	01/06>
	1.9 TiD (YS3E) S.W.	1.9	110	Z 19 DTH	4	12	01/06>
VAUXHALL							
ASTRA	1,9 CDTI MK V(H) Sport Hatch	1.9	110	Z 19 DTH	4	12	02/05>11/10
	1,9 CDTI MK V (H)	1.9	110	Z 19 DTH	4	12	01/04>05/09
	1,9 CDTI MK V 16V (H)	1.9	88	Z 19 DTJ	4	12	01/04>05/09
	1,9 CDTI MK V (H) S.W.	1.9	110	Z 19 DTH	4	12	08/04>03/09
	1,9 CDTI MK V (H) Twin Top	1.9	110	Z 19 DTH	4	12	01/06>11/10
ASTRAVAN	1.9 CDTI MK V (H)	1.9	110	Z 19 DTH	4	12	03/05>11/11
SIGNUM	1,9 CDTI 16V	1.9	110	Z 19 DTH	4	12	04/04>03/08
VECTRA	1,9 CDTI MK II 16V (C)	1.9	110	Z 19 DTH	4	12	04/04>08/08
	1,9 CDTI MK II 16V (C) GTS	1.9	110	Z 19 DTH	4	12	04/04>07/08
	1,9 CDTI MK II 16V (C) S.W.	1.9	110	Z 19 DTH	4	12	04/04>07/08
ZAFIRA	1,9 CDTI MK II (B) (M75)	1.9	110	Z 19 DTH	4	12	07/05>

114 PHD 11,0 V



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
114 PHD	24	105	150,5	10	M10X1	4	11,0	5	63	4

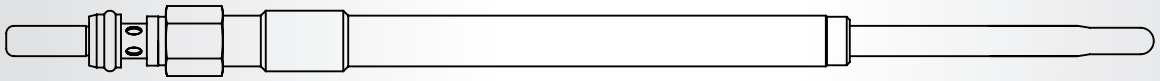
Suitable to:
BERU
GN 060
0 100 226 493
0 100 226 496
0 100 226 517
CHAMPION
CH 273
DELPHI
HDS421
DENSO
DG-188

Suitable to:
SSANGYONG
66415-90001
66415-90101
66515-90001
66515-90101
66515-90201
A 66415-90000
A 66415-90001
A 66515-90001
A 66515-90101

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
BMW							
Z4 2.5 si (E85)	2.5 si	2.5	160	N52 B25A	6	12	01/06>
SSANGYONG							
ACTYON	200 Xdi	2.0	100	D20DT	4	12	07/07>
	200 Xdi	2.0	104	D20DT	4	12	11/05>
	200 Xdi 4WD	2.0	100	D20DT	4	12	07/07>
	200 Xdi Action Sorts Pick-up (QJ) 4WD	2.0	104	D20DT	4	12	04/07>
ISTANA	Sport Pick-up Xdi 4WD	2.0	104		4	12	04/07>
KYRON	2.0 Xdi	2.0	100	D20DT	4	12	01/10>
	2.0 Xdi	2.0	104	D20DT	4	12	05/05>
	2.0 Xdi 4x4	2.0	100	D20DT	4	12	01/10>
	2.0 Xdi 4x4	2.0	104	D20DT	4	12	05/05>
	2.7 Xdi	2.0	121	D27DT	4	12	05/05>
REXTON	2,7 Xdi 4x4 (GAB)	2.7	120	D27DT	5	12	08/04>
	2,7 Xdi 4x4 (GAB)	2.7	118	D27DT	5	12	03/11>
	2,7 Xdi	2.7	121	D27DT	5	12	05/05>
	2,7 Xdi	2.7	120	D27DT	5	12	05/05>
	2,7 Xdi 4x4	2.7	120	D27DT	5	12	05/05>
	2,7 Xdi 4x4	2.7	120	D27DT	5	12	05/05>

102 PHD 11,0 V

APP UPDATES



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
102 PHD	40	90	152	8	M8X1	4	11,0	5	93	4

Suitable to:
BERU
0 100 276 003
0 100 276 017
0 100 276 035
GN 037
BOSCH
F002 G50 048
GLP205
0 250 203 000
CHAMPION
CH 270

Suitable to:
DELPHI
HDS419
DENSO
DG-195
MARELLI
UY6A
NGK
DP64
Y-8005J
FIAT
500351992

Suitable to:
IVECO
27600323
500351992
P.S.A.
5960 A3
5960 A4
5960 K4

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
CITROEN							
JUMPER	3.0 HDI 155	3.0	115	F1CE0481D (F30DT)	4	12	07/10>
	3.0 HDI 160	3.0	116	F1CE0481D (F30DT)	4	12	09/06>
FIAT							
DUCATO	2,3 120 Multijet D (250) Autobus	2.3	88	F1AE0481D	4	12	07/06>
	2,3 120 Multijet D (250) Furgonato	2.3	88	F1AE0481D	4	12	07/06>
	2,3 120 Multijet D (250) Furgonato	2.3	88	F1AE0481D	4	12	03/10>
	2,3 120 Multijet D (250) Pianale piatto	2.3	88	F1AE0481D	4	12	07/06>
	2,3 120 Multijet D (250) Pianale piatto	2.3	88	F1AE0481D	4	12	03/10>
	2,3 130 Multijet D (250) Autobus	2.3	96	F1AE3481D	4	12	01/07>
	2,3 130 Multijet D (250) Furgonato	2.3	96	F1AE0481N, F1AE3481D	4	12	01/07>
	2,3 130 Multijet D (250) Pianale piatto	2.3	96	F1AE0481N, F1AE3481D	4	12	01/07>
	2,3 150 Multijet D (250) Autobus	2,3	109	F1AE3481E	4	12	06/11>
	2,3 150 Multijet D (250) Furgonato	2,3	109	F1AE3481E	4	12	06/11>
	2,3 150 Multijet D (250) Pianale piatto	2,3	109	F1AE3481E	4	12	06/11>
	2,3 JTD (244) Furgonato	2.3	81	F1AE 0481C	4	12	04/02>
	2,3 JTD (244) Furgonato	2.3	93	F1AE0481T	4	12	12/09>
	2,3 JTD (244) Pianale piatto	2.3	81	F1AE0481C	4	12	04/02>07/06
	2,3 JTD (244) Pianale piatto	2.3	93	F1AE0481T	4	12	12/09>
	2,3 JTD (244, Z) Autobus	2.3	81	F1AE0481C	4	12	04/02>
	2,3 JTD (244, Z) Autobus	2.3	93	F1AE0481T	4	12	12/09>
	3,0 150 Multijet D (250) Autobus	3,0	107	F1CE3481N	4	12	04/10>
	3,0 150 Multijet D (250) Furgonato	3,0	107	F1CE3481N	4	12	04/10>
	3,0 150 Multijet D (250) Pianale piatto	3,0	107	F1CE3481N	4	12	04/10>
	3,0 160 Multijet D (250) Autobus	3.0	116	F1CE0481D, F1CE3481M	4	12	07/06>
	3,0 160 Multijet D (250) Furgonato	3.0	116	F1CE0481D	4	12	07/06>
	3,0 160 Multijet D (250) Pianale piatto	3.0	116	F1CE0481D	4	12	07/06>
	3,0 Multijet D (250) Autobus	3.0	130	F1CE3481E	4	12	06/11>
	3,0 Multijet D (250) Furgonato	3.0	130	F1CE3481E	4	12	06/11>
	3,0 Multijet D (250) Pianale piatto	3.0	130	F1CE3481E	4	12	06/11>

102 PHD 11,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
IVECO							
DAILY II	29L 10	2.3	70	F1AE0481A	4	12	09/02>
	29L 12	2.3	85	F1AE0481B	4	12	09/02>
	29L 14	2.3	100	F1AE0481M	4	12	11/05>
DAILY III	29L10	2,3	70	F1AE0481A	4	12	09/02>
	29L10V	2,3	70	F1AE0481A	4	12	09/02>
	29L12	2.3	85	F1AE0481B	4	12	09/02>
	29L12V	2.3	85	F1AE0481B	4	12	09/02>
	29L14	2.3	100	F1AE0481M	4	12	11/05>04/06
	35C10V, 35S10V	2,3	70	F1AE0481A	4	12	09/02>
	35C12, 35S12	2.3	85	F1AE0481B	4	12	09/02>
	35C12V, 35S12V	2.3	85	F1AE0481B	4	12	09/02>
	35C14	3,0	100	F1CE0481A	4	12	09/04>04/06
	35C14, 35S14	2.3	100	F1AE0481M	4	12	01/05>04/06
	35C17, 35S17	3,0	122	F1CE0481B	4	12	01/05>04/06
	35S10	2,3	70	F1AE0481A	4	12	09/02>
	40C14	3,0	100	F1CE0481A	4	12	09/04>04/06
	40C14	2.3	100	F1AE0481M	4	12	01/05>04/06
	40C17, 40S17	3,0	122	F1CE0481B	4	12	01/05>04/06
	50C14	3,0	100	F1CE0481A	4	12	09/04>04/06
	50C17	3,0	122	F1CE0481B	4	12	09/04>04/06
	65C14	3,0	100	F1CE0481A	4	12	09/04>04/06
	65C17	3,0	122	F1CE0481B	4	12	09/04>04/06
DAILY IV	29L10	2,3	70	F1AE0481FA	4	12	05/06>
	29L10V	2,3	70	F1AE0481FA	4	12	05/06>
	29L12	2.3	85	F1AE0481GA	4	12	05/06>
	29L12V, 29L12V/P	2.3	85	F1AE0481GA	4	12	05/06>
	29L14	2.3	100	F1AE0481HA	4	12	05/06>
	29L14V, V/P, C, C/P	2.3	100	F1AE0481HA	4	12	05/06>
	35C10, 35S10	2,3	70	F1AE0481FA	4	12	05/06>
	35C10K	2,3	70	F1AE0481FA	4	12	05/06>
	35C11, 35S11, D, P	2,3	78	F1AE0481FA	4	12	07/07>
	35C11K, DK 35S11K, DK	2,3	78	F1AE0481FA	4	12	07/07>
	35C11V, 35S11V	2,3	78	F1AE0481FA	4	12	07/07>
	35C12	2.3	85	F1AE0481GA	4	12	05/06>
	35C12, 35S12	2.3	85	F1AE0481GA	4	12	05/06>
	35C12V,VP , 35S12V,V/P	2.3	85	F1AE0481GA	4	12	05/06>
	35C13,P 35S13,D,P	2.3	93	F1AE0481GA	4	12	07/07>
	35C13K, DK 35S13K, DK	2.3	93	F1AE0481GA	4	12	07/07>
	35C13V,VP , 35S13V,V/P	2.3	93	F1AE0481GA	4	12	07/07>
	35C14, 35S14,P	2.3	100	F1AE0481HA	4	12	05/06>
	35C14,P 35S14D,P,DP	3,0	103	F1CE3481LC	4	12	07/07>
	35C14K, DK 35S14K, DK	3,0	103	F1CE3481LC	4	12	07/07>
	35C14V,V/P, 35S14C,C/P,V,V/P	2.3	100	F1AE0481HA	4	12	05/06>
	35C14V,VP , 35S14V,V/P	3,0	103	F1CE3481LC	4	12	07/07>
	35C15	3,0	107	F1CE0481FA	4	12	05/06>
	35C15V,VP	3,0	107	F1CE3481FA	4	12	05/06>
	35C17,P 35S17,D,P	3,0	125	F1CE0481HA	4	12	07/07>
	35C17K, DK 35S17K, DK	3,0	125	F1CE0481HA	4	12	07/07>
	35C17V,VP 35S17V,V/P	3,0	125	F1CE0481HA	4	12	07/07>
	35C18	3,0	130	F1CE0481HA	4	12	05/06>
	35C18, 35S18	3,0	130	F1CE0481HA	4	12	05/06>
	35C18V,VP 35S18V,V/P	3,0	130	F1CE0481HA	4	12	05/06>
	35S14K, DK	2.3	100	F1AE0481HA	4	12	07/07>
	35S17W,WD	3,0	125	F1CE0481HA	4	12	07/07>
	40C10	2,3	70	F1AE0481FA	4	12	05/06>
	40C10V	2,3	70	F1AE0481FA	4	12	05/06>

102 PHD 11,0 V

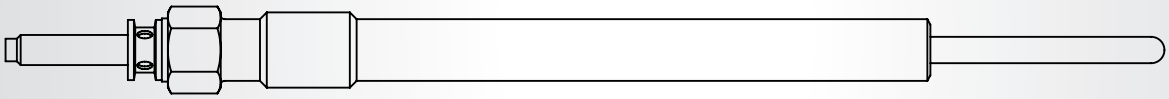
VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
IVECO							
DAILY IV	40C11, D	2,3	78	F1AE0481FA	4	12	07/07>
	40C11V	2,3	78	F1AE0481FA	4	12	07/07>
	40C12	2.3	85	F1AE0481GA	4	12	05/06>
	40C12V 40C14V/P	2.3	85	F1AE0481GA	4	12	05/06>
	40C13,P	2.3	93	F1AE0481GA	4	12	07/07>
	40C13V 40C13V/P	2.3	93	F1AE0481GA	4	12	07/07>
	40C14,P	3,0	103	F1CE3481LC	4	12	07/07>
	40C14K 40C14DK	3,0	103	F1CE3481LC	4	12	07/07>
	40C14V 40C14V/P	3,0	103	F1CE3481LC	4	12	07/07>
	40C15	3,0	107	F1CE3481FA	4	12	05/06>
	40C15V 40C15V/P	3,0	107	F1CE3481FA	4	12	05/06>
	40C17,P	3,0	125	F1CE0481HA	4	12	07/07>
	40C17K, DK	3,0	125	F1CE0481HA	4	12	07/07>
	40C17V 40C17V/P	3,0	125	F1CE0481HA	4	12	07/07>
	40C18	3,0	130	F1CE0481HA	4	12	05/06>
	40C18V 40C18V/P	3,0	130	F1CE0481HA	4	12	05/06>
	45C14,P	3,0	103	F1CE3481LC	4	12	07/07>
	45C15	3,0	107	F1CE3481FA	4	12	05/06>
	45C15V	3,0	107	F1CE3481FA	4	12	05/06>
	45C17,P	3,0	125	F1CE0481HA	4	12	07/07>
	45C17V 45C17V/P	3,0	125	F1CE0481HA	4	12	07/07>
	45C18,D,P,DP	3,0	130	F1CE0481HA	4	12	05/06>
	45C18V	3,0	130	F1CE0481HA	4	12	05/06>
	50C14,P	3,0	103	F1CE3481LC	4	12	07/07>
	50C14K 50C14DK	3,0	103	F1CE3481LC	4	12	07/07>
	50C14V 50C14V/P	3,0	103	F1CE3481LC	4	12	07/07>
	50C15	3,0	107	F1CE3481FA	4	12	05/06>
	50C15	3,0	107	F1CE0481FA	4	12	05/06>
	50C15V 50C15V/P	3,0	107	F1CE3481FA	4	12	05/06>
	50C17,P	3,0	125	F1CE0481HA	4	12	07/07>
	50C17K 50C17DK	3,0	125	F1CE0481HA	4	12	07/07>
	50C17V 50C17V/P	3,0	125	F1CE0481HA	4	12	07/07>
	50C18	3,0	130	F1CE0481HA	4	12	05/06>
	50C18,D,P,DP	3,0	130	F1CE0481HA	4	12	05/06>
	50C18V 50C18V/P	3,0	130	F1CE0481HA	4	12	05/06>
	55S17W,WD	3,0	125	F1CE0481HA	4	12	07/07>
	60C14,P	3,0	103	F1CE3481LC	4	12	07/07>
	60C14K 60C14DK	3,0	103	F1CE3481LC	4	12	07/07>
	60C15	3,0	107	F1CE3481FA	4	12	05/06>
	60C15,D,P,DP	3,0	107	F1CE0481FA	4	12	05/06>
	60C15V	3,0	107	F1CE3481FA	4	12	05/06>
	60C17,P	3,0	125	F1CE0481HA	4	12	07/07>
	60C17K 60C17DK	3,0	125	F1CE0481HA	4	12	07/07>
	60C17V 60C17V/P	3,0	125	F1CE0481HA	4	12	07/07>
	60C18	3,0	130	F1CE0481HA	4	12	05/06>
	60C18	3,0	130	F1CE0481HC	4	12	05/06>
	65C14,P	3,0	103	F1CE3481LC	4	12	07/07>
	65C14K 65C14DK	3,0	103	F1CE3481LC	4	12	07/07>
	65C14V 65C14V/P	3,0	103	F1CE3481LC	4	12	07/07>
	65C15	3,0	107	F1CE3481FA	4	12	05/06>
	65C15,D,P,DP	3,0	107	F1CE0481FA	4	12	05/06>
	65C17,P	3,0	125	F1CE0481HA	4	12	07/07>
	65C17K, DK, KK	3,0	125	F1CE0481HA	4	12	07/07>
	65C17V 65C17V/P	3,0	125	F1CE0481HA	4	12	07/07>
	65C18	3,0	130	F1CE0481HC	4	12	05/06>
	70C14,P	3,0	103	F1CE3481LC	4	12	07/07>
	70C14K, DK, KK	3,0	103	F1CE3481LC	4	12	07/07>
	70C14V 70C14V/P	3,0	103	F1CE3481LC	4	12	07/07>

102 PHD 11,0 V

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
IVECO							
DAILY IV	70C17,P	3,0	125	F1CE0481HA	4	12	07/07>
	70C17K, DK, KK	3,0	125	F1CE0481HA	4	12	07/07>
	70C17V 70C17V/P	3,0	125	F1CE0481HA	4	12	07/07>
MASSIF	3,0 HPI Pick-up	3,0	107	F1CE0481FA	4	12	10/08>
	3,0 HPI S.W.	3,0	107	F1CE0481FA	4	12	10/08>
	3,0 HPI Single Cab	3,0	107	F1CE0481FA	4	12	10/08>
	3,0HPT Pick-up	3,0	130	F1CE0481HA	4	12	10/08>
	3,0HPT S.W.	3,0	130	F1CE0481HA	4	12	10/08>
	3,0HPT Single Cab	3,0	130	F1CE0481HA	4	12	10/08>
MULTICAR							
FUMO	3.0	3.0	107	F1CE0481FA	4	12	09/06>
PEUGEOT							
BOXER	3.0 HDI 160 Furgonato	3.0	116	F1CE0481D (FG30DT)	4	12	04/06>

115 PHD 11,0 V

APP UPDATES



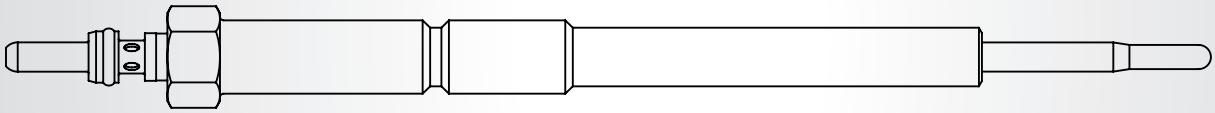
ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
115 PHD	31	101	154	12	M10X1,25	M4	11,0	5	123	5

Suitable to:
BERU
GN 057
0 100 222 106
CHAMPION
CH234
DELPHI
HDS420
DENSO
36710-4A 000

Suitable to:
HKT
B-120
NGK
Y-508J
HYUNDAI
36710-4A000
36710-4A100
KIA
36710-4A000
36710-4A100

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
HYUNDAI							
H-1	2,5 CRDi Furgonato	2.5	81	D4CB	4	12	07/01>04/04
H-1	2,5 CRDi Furgonato	2.5	103	D4CB	4	12	08/03>04/04
H-1	2,5 CRDi Cargo	2,5	125	D4CB	4	12	02/08>
H-1	2,5 CRDi Travel	2,5	125	D4CB	4	12	05/08>
TRAVEL	2,5 CRDi Bus	2,5	125	D4CB	4	12	05/08>
KIA							
SORENTO	2.5 CRDi (JC)	2.5	103	D4CB	4	12	08/02>
SORENTO	2.5 CRDi (JC)	2.5	125	D4CB	4	12	12/06>

116 PHD 11,0 V



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
116 PHD	30,5	108,5	160,5	12	M10X1,25	4	11,0	5	123	4

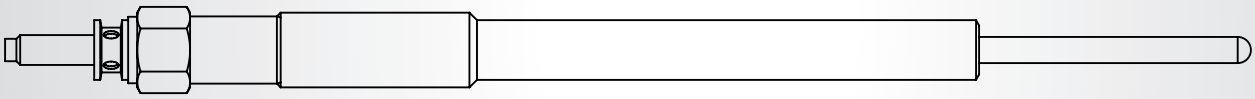
Suitable to:
ASHIKA
01-04-401
BERU
0 100 800 036
GN 073
BOSCH
F01G.004.02X
GLP147
0 250 503 003

Suitable to:
DELPHI
HDS431
HKT
CP 53
JAPANPARTS
CE-401
MARELLI
UY14A

Suitable to:
HONDA
12291-RBD-E01
12291-RBD-E011 M1
12291-RL0-G01
12291-RL0-G011
12291-RMA-XE011
12291-RMA-XE011 M1

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
HONDA							
ACCORD	VIII 2,2 i-CTDi	2.2	103	N22A1	4	12	01/04>
ACCORD	VIII Tourer 2,2 i-CTDi	2.2	103	N22A1	4	12	01/04>
CIVIC	CIVIC VII Hatchback - 2.2 CTDi	2.2	103	N22A2	4	12	01/06>
CR-V	CR-V II - 2.2 CTDi	2.2	103	N22A2	4	12	02/05>09/06
CR-V	CR-V III - 2.2 i-CTDi	2.2	103	N22A2	4	12	01/07>
FR-V	2.2 i CTDi	2.2	103	N22A1	4	12	07/05>

151 PHD 11,0 V



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
151 PHD	36	111,5	165	10	M10X1,25	M4	11,0	5	123	5

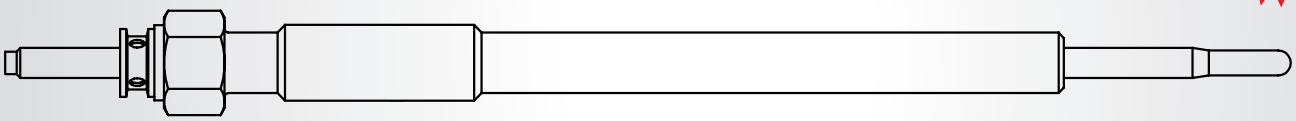
Suitable to:
NGK
Y-535J
KIA
36710-4X900

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
KIA							
CARNIVAL III	2,9 CRDI (VQ)	2.9	136	J3	4	12	06/06>
GRAND CARNIVAL	2,9 CRDi (VQ)	2.9	136	J3	4	12	06/06>
K2900	2.9 D	2,9	92	J3	4	12	01/08>

152 PHD

11,0 V

NEW



ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
152 PHD	30	119	170	12	M10X1,25	M4	11,0	5	93	4

Suitable to:
ASHIKA
PM 402
ASHUKI
1713-6105
HKT
PM 402
NGK
CZ-201

Suitable to:
MITSUBISHI
1820A-006T
1820A-009
1820A-020

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
MITSUBISHI							
L 200	2,5 DI-D (KA4T) (RWD)	2,5	94	4D56HP	4	12	04/10>
L 200	2,5 DI-D (KA4T) (RWD)	2,5	100	4D56HP	4	12	11/05>
L 200	2,5 DI-D 4x4 (KB4T)	2,5	100	4D56HP	4	12	11/05>
L 200	2,5 DI-D 4x4 (KB4T)	2,5	123	4D56HP	4	12	10/07>
L 200	2,5 DI-D 4x4 (KB4T) 4x4	2,5	131	4D56HP	4	12	04/10>

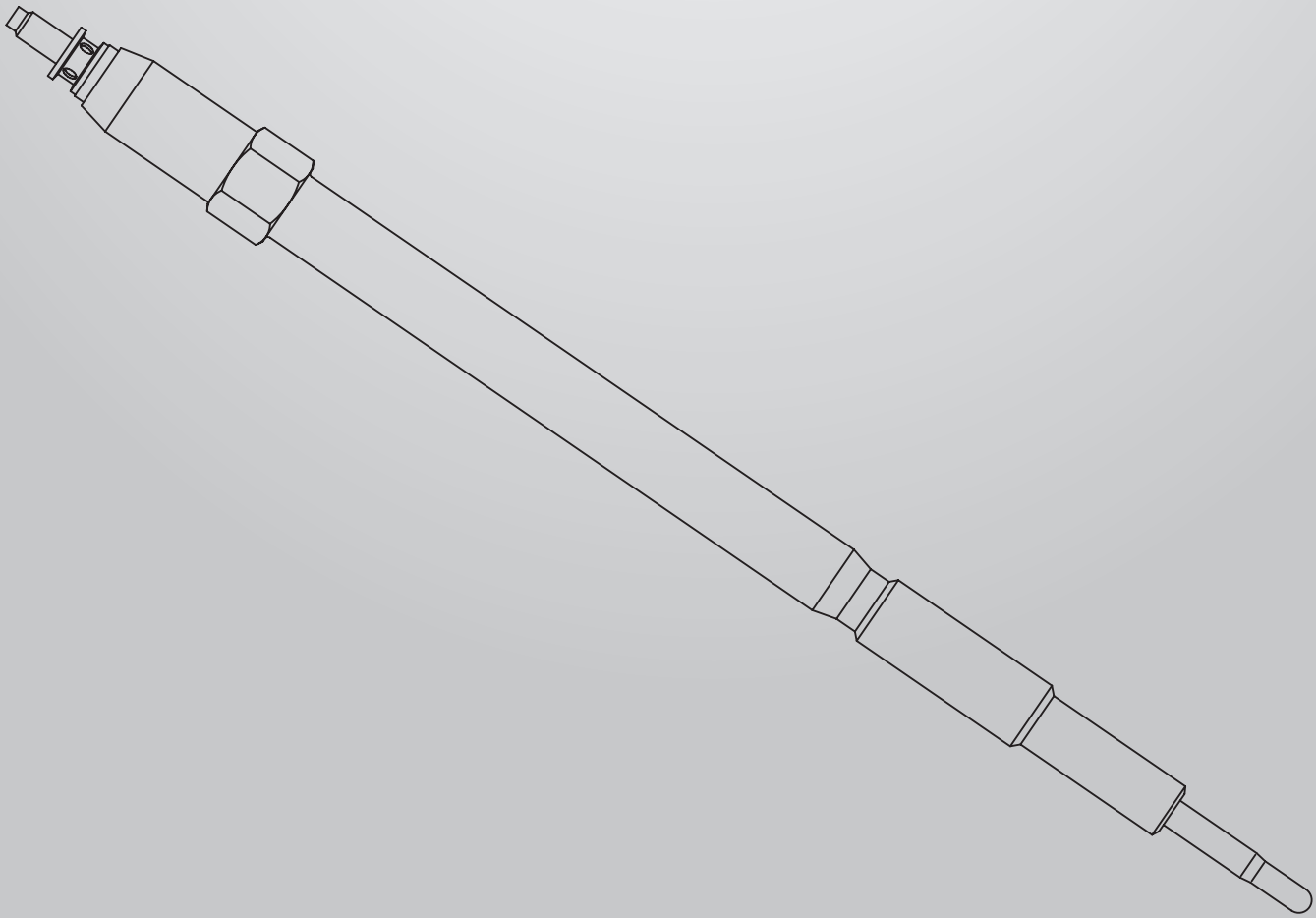
121 PHD 11,0 V

APP UPDATES

ELSTAR Ref.	DIMENSIONS L1	L2	LT			d	V	T ± 1″	a°	Tube Diam.
121 PHD	22,5	175	212	12	M10X1,25	M4	11,0	5	123	4

Suitable to:
NGK
Y-522J
NISSAN
11065-DB000 11065-MA70A
RENAULT
77 01 058 142

VEHICLE	MODEL	CC.	KW	ENGINE	Cyl	V	YEAR
NISSAN							
PATROL	3,0 Dti	3,0	116	ZD30DDTi	4	12	01/06>
RENAULT							
ESPACE	3,0 DCI	3.0	133		6	12	01/06>
MASCOTTE	3,0 DCI	3.0			4	12	



ECO KIT KE 200 ELSTAR.

THIS KIT HAS BEEN DESIGNED TAKING IN CONSIDERATION THE PRESENT GLOW PLUG PERFORMANCES SHOWING A LONG LAST IGNITION TIME WITHOUT FACING AN EXCESSIVE WEARING.

THE BLISTERIZED KIT CONTAINS THE FOUR GLOW PLUGS AND THE THREE CABLES TO CONNECT THE TERMINALS. INSIDE THE KIT YOU WILL FIND THE MOUNTING INSTRUCTIONS.

BY OUR KIT 200 EVEN ON OLD CARS YOU OBTAIN A LONGER IGNITION TIME OF THE PLUGS AND THEN HOLDING THE TEMPERATURE WITH THE FOLLOWING PLUS:

SHORTER STARTS: FROM THE TRADITIONAL 10-15 SECONDS OF PREHEATING, YOU DROP TO 7 SECONDS.

EXHAUST SMOKE REDUCTION: THE VEHICLE SMOKING DURING START IS REDUCED AVOIDING POLLUTION.

QUICKER HEATING: THE BURST CHAMBER REACHES THE TEMPERATURE IN LESS TIME. THIS WILL REDUCE THE FEUL CONSUMPTION AND THE NEGATIVE POINT OF A COOL START ON DIESEL ENGINE.

THEREFORE, THIS ECO KIT KE200 IS RECOMMENDED TO REPLACE THE OLD GLOW PLUG TYPE (WITH EXTERNAL RESISTENCE) OUR CODE 450, SUITABLE TO:

BERU TYPE GD- 0 100 101 308
BOSCH TYPE 0250 001 016