



2022-2023 NEW EDITION

# GLOW PLUGS

HIGH PERFORMANCE AND HIGH QUALITY  
MADE IN JAPAN





## 使用上の注意

- (1) ディーゼルエンジンは、始動時にガソリンエンジンに比べ消費電力が大きいため、バッテリー容量はエンジンメーカーの指示に従って下さい。バッテリー容量が不足すると、グロープラグが十分に赤熱せず、始動が困難になります。バッテリーが劣化している場合も同様の現象となります。
- (2) グロープラグの選定にあたっては、車種・年式を確認の上、当社カタログにより正しい品番のものを選定し、ご使用下さい。選定を誤ると始動困難、またはグロープラグの断線等の原因となります。
- (3) グロープラグが赤熱する時間は、スタンダード型で約25秒、クイック型で約20秒、クイックグローシステム型で10秒以内、コイル型で約20秒です。予熱後、始動不可能になった場合、連続しての始動行為はバッテリーの消耗が大きく、またグロープラグの寿命にも悪影響を及ぼしますので、一度スイッチを切ってから再び始動手順を行なって下さい。

## PROPER USE

- (1) Obey the manufacturer's instructions for the battery capacity because the diesel engine consumes more electricity than the gasoline engine at the starting time. Insufficiency of the battery capacity may not heat the glow plug sufficiently resulting in difficulty of starting. If the battery is deteriorated, the same phenomenon will occur.
- (2) When selecting the glow plug, make sure of the manufacturer's part number in accordance with HKT's product catalogue. Mistakes in selection may sometimes result in difficulty of starting (for example, using the product specified for 24V in a 12V vehicle) or melting of the glow plug (for example, using the product specified for 12V in a 24V vehicle).
- (3) It takes about 25 seconds, 20 seconds, 10 seconds and 20 seconds for the standard type, quick type, QGS type and coil type respectively to be heated up. When it does not start excellently after preliminary heating, continuous feeding of electricity may consume battery power considerably and gives an unfavorable influence upon the service life of the glow plug.  
Turn the switch to OFF after preliminary heating and turn ON again.



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# CLASSIFICATION AND CHARACTERISTICS OF GLOW PLUGS

## ABOUT GLOW PLUGS

グロープラグは構造上ヒーターコイルが外部に露出したコイル型と耐熱パイプに覆われたシース型の2種類に大別出来ます。コイル型は1970年以前が主流でしたが、現在はシース型が圧倒的に使用されています。シース型グロープラグは温度上昇時間により、スタンダード型、クイック型、クイックグローシステム型、スーパークイック型の4種類に分類されます。

There are two types of the glow plugs in view of the construction, coil type where the heating coil is exposed, and sheathed type where the coil is protected by the heat resistance pipe (sheath). The coil type was the main by the 1970s but the sheath type is now the most popular taken over all other types of glow plugs. The sheath type glow plug is divided into four groups for the heating time as follows.

### STANDARD TYPE スタンダード型

温度上昇時間800°Cまで 20-25秒

20-25 sec to 800°C

温度上昇によるヒーターコイルの抵抗値に変化はなく、一定量の電流が流れます。

Increasing temperature does not change the resistance of the heating coil, and the glow plug draws the constant current.

### QUICK TYPE クイック型

温度上昇時間800°Cまで 15-20秒

15-20 sec to 800°C

温度上昇に従い抵抗値が大きくなるヒーターコイルを使用しており、通電直後は抵抗値が低く、大容量の電流が流れる為、短時間で急速に温度が上昇する特性をもっています。

The coil resistance increases as the temperature goes up, and the current is almost double of the normal value when energized. This makes it possible to heat up quickly.

### QUICK GLOW SYSTEM TYPE クイックグローシステム型

温度上昇時間900°Cまで 約10秒

Approx. 10 sec to 900°C

コントローラー、グローリレー等の電子回路により、グロープラグへの通電時間、電流容量等を制御することにより、始動時間の短縮、低アイドル時のエンジン回転の安定、スモークの減少等の特性をもっています。

The electronic controller and the relay control the energized time and current draw for the quick starting, and also running of engine and reduction of smoke at cranking. Regulating the current capacity and conducting time with the electric controller and relays enables the engine to start quickly, run stably and reduce smoke at cranking.

### SUPER QUICK TYPE スーパークイック型

温度上昇時間800°Cまで 10秒以内

Max. 10 sec to 800°C

材質が異なる2種類のコイル特性を利用して急速に温度を上昇させた後、プラグ自身で温度を制御させています。周辺機器の簡素化と始動性に優れています。

The heating coil and the self-regulating coil, which consist of different materials, have their respective properties. After the coils increase the temperature rapidly, the glow plug itself regulates the heat to the appropriate level. That makes it possible to simplify the system and ensure a quick start.

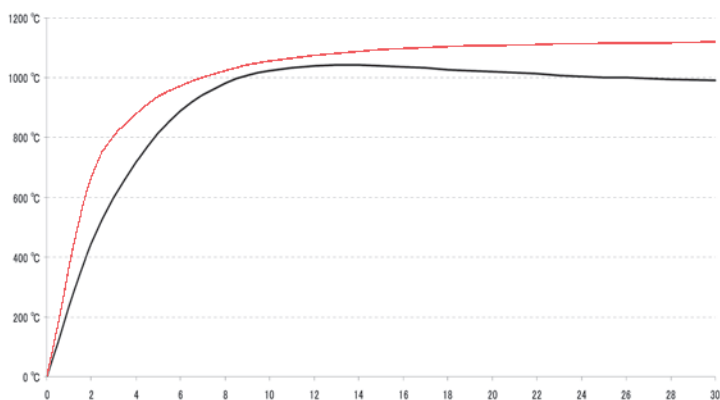


# CERAMIC GLOW PLUG JPX-SERIES

GOOD DURABILITY,  
GOOD REASON  
FOR HEAVY-DUTY



## HIGH PERFORMANCE



—HKT [メタル CP-72] 温度上昇  
HKT [metal CP-72] Temperature

—HKT [セラミック] 温度上昇  
HKT [Ceramic] Temperature



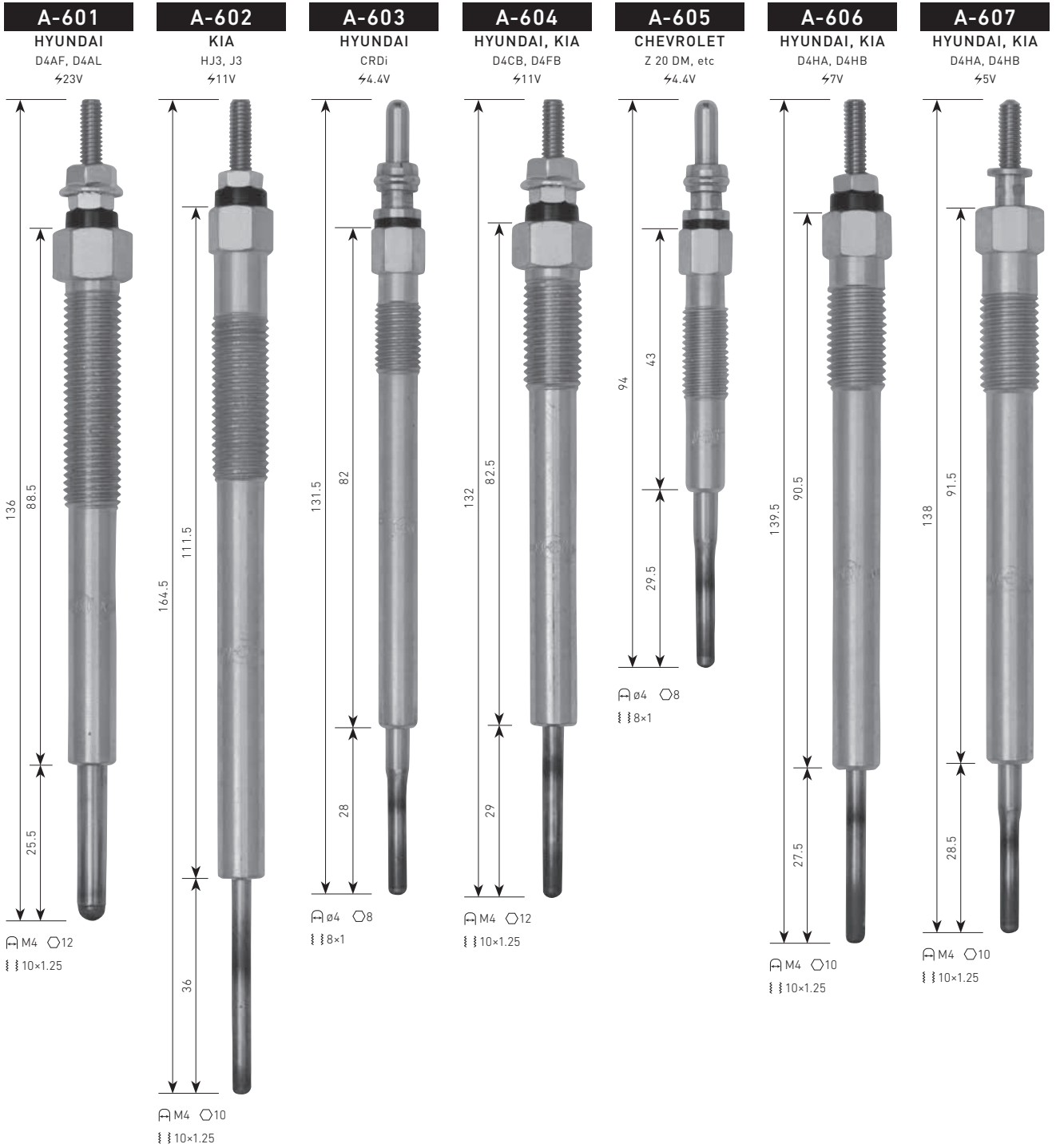
CERAMIC MATERIAL



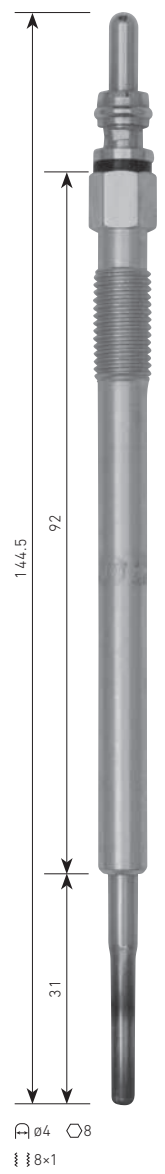
# IMAGES



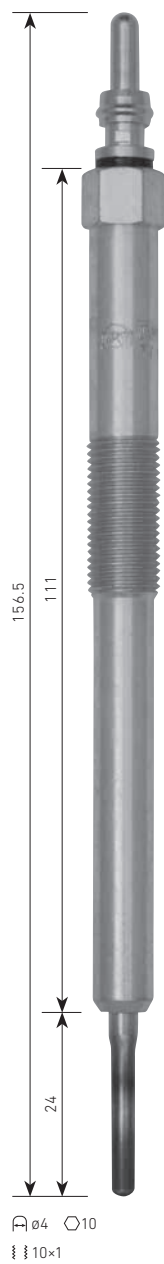
(ACTUAL SIZE) (mm)



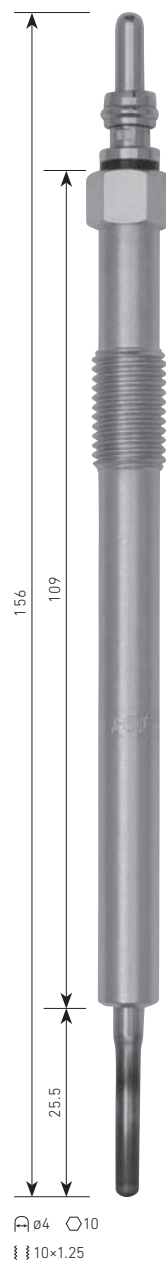
**A-608**  
CHEVROLET  
Z 22 D1  
⚡4.4V



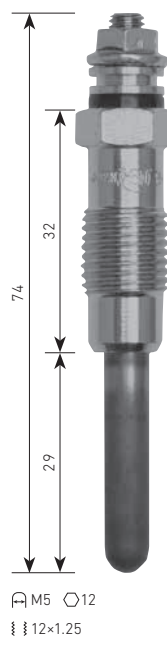
**A-609**  
SSANGYONG  
D27DTP  
⚡5V



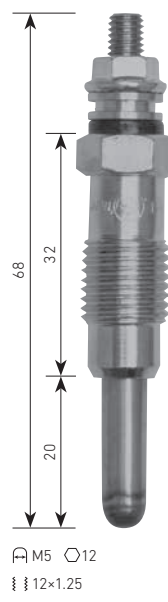
**A-610**  
SSANGYONG  
D20DTF, D20DTR  
⚡4.4V



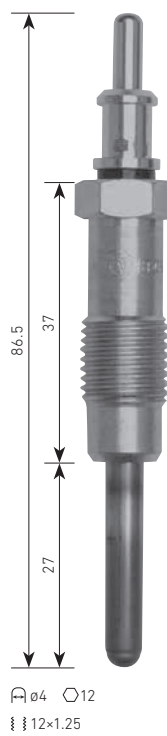
**B-049**  
ALFA ROMEO  
VM80A, VM81A  
⚡11V



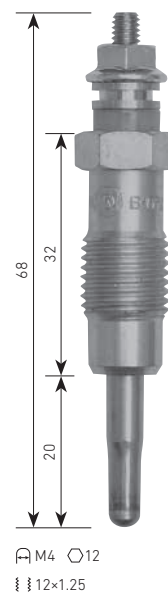
**B-053**  
FORD  
LTA, LTB, LTC  
⚡11.5V



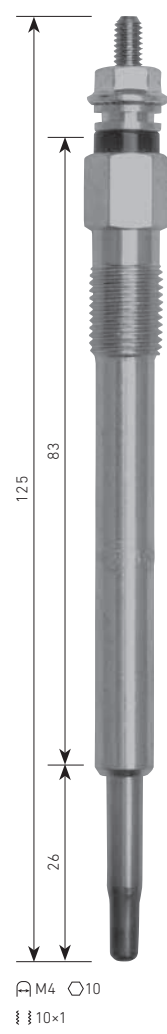
**B-067**  
MERCEDES-BENZ  
OM 602.980  
⚡11.5V



**B-072**  
CITROËN  
K9A (TUD3), K9Y (TUD3Y)  
⚡11.5V



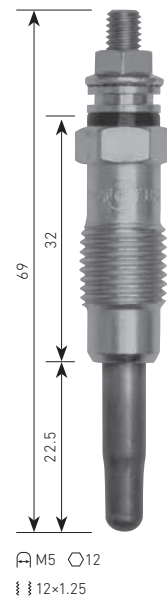
**B-074**  
LAND ROVER  
23L, etc.  
⚡11.5V



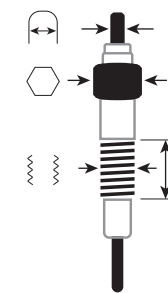
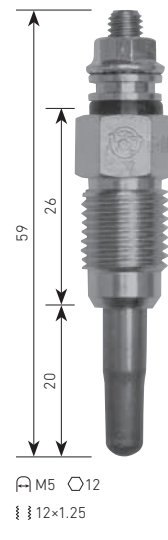
**B-077**  
AUDI  
AVG, etc.  
⚡11V



**B-078**  
MERCEDES-BENZ  
OM 601.912, etc.  
⚡11.5V



**B-080**  
RENAULT  
F8Q  
⚡11V

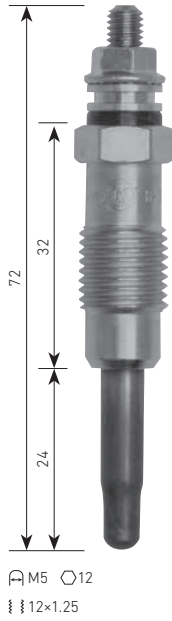


⚡ = VOLTAGE

(ACTUAL SIZE) (mm)

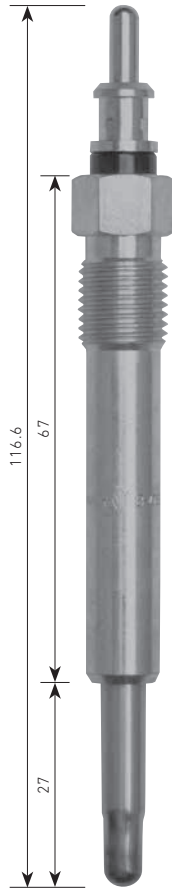
**B-081**

**BMW**  
M21 D24, etc.  
⚡11V



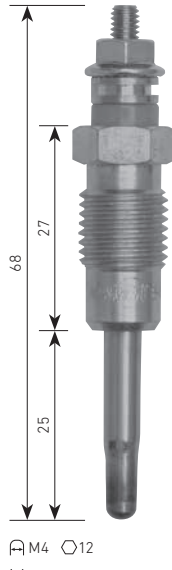
**B-082**

**MERCEDES-BENZ**  
OM 601.912, etc.  
⚡11.5V



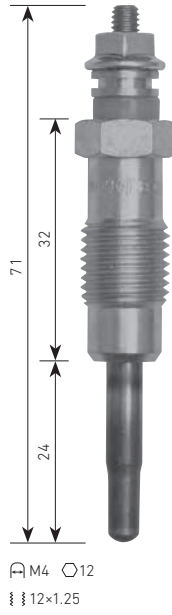
**B-083**

**RENAULT**  
F8Q  
⚡11V



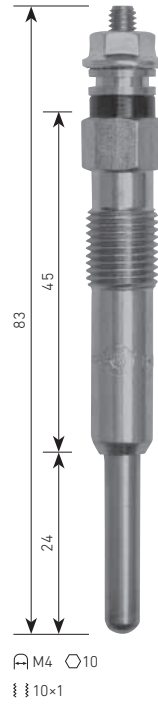
**B-084**

**FIAT**  
182 A7.000, etc.  
⚡11V



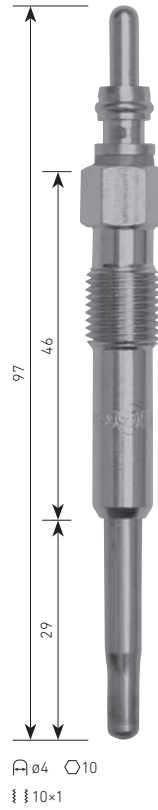
**B-085**

**HONDA**  
20TD  
⚡11V



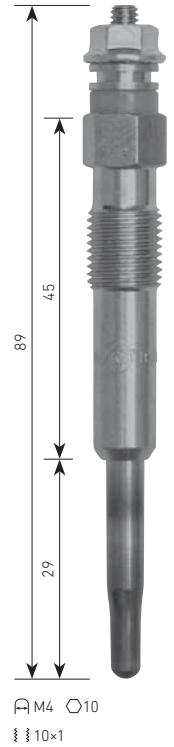
**B-086**

**ALFA ROMEO**  
VM07B, etc.  
⚡11V



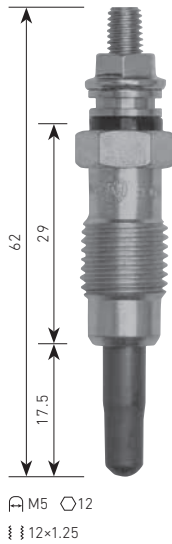
**B-087**

**CITROËN, PEUGEOT**  
VJX, etc.  
⚡11V



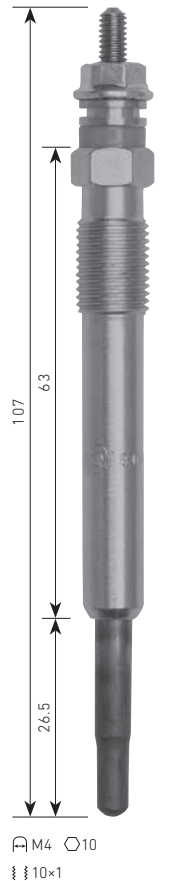
**B-088**

**FORD**  
RFN, etc.  
⚡10V



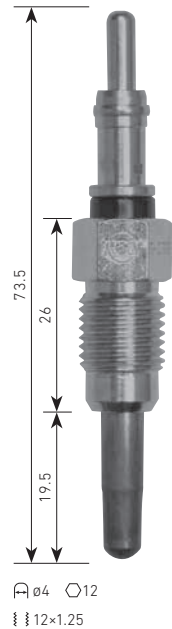
**B-089**

**CITROËN, PEUGEOT**  
4HX, etc.  
⚡11V



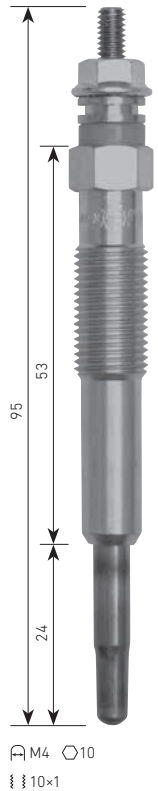
**B-092**

**AUDI**  
AGR, etc.  
⚡11V



**B-094**

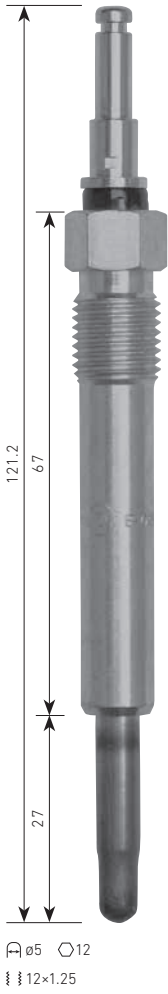
**RENAULT**  
F8Q  
⚡11V





**B-095**

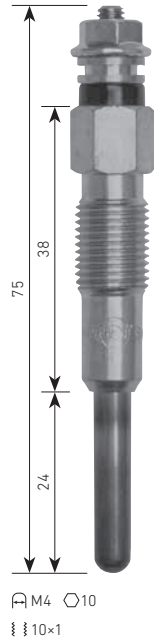
MERCEDES-BENZ  
OM 604.910, etc.  
⚡11.5V

**B-096**

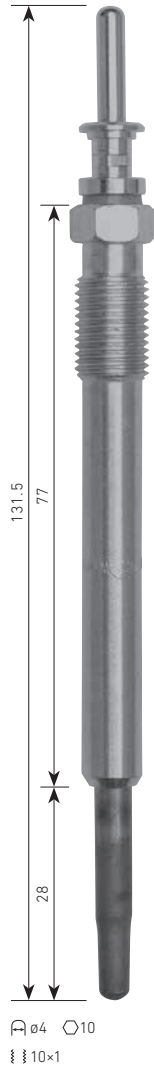
RENAULT  
F9Q, G8T  
⚡11V

**B-097**

CITROËN, PEUGEOT  
8140, etc.  
⚡11V

**B-098**

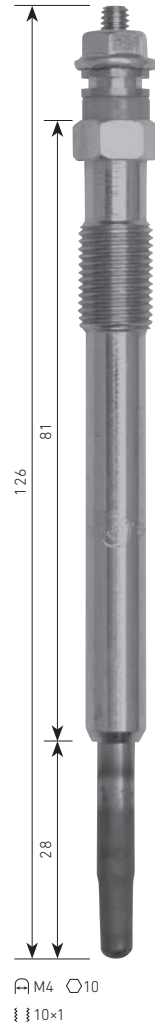
OPEL, VAUXHALL  
X20 DTH, X20 DTL, etc.  
⚡11V

**B-099**

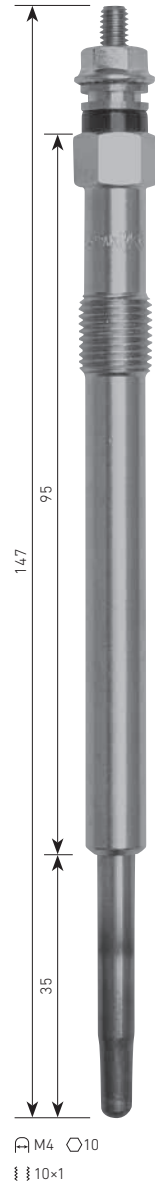
MERCEDES-BENZ  
OM 611.960, etc.  
⚡11.5V

**B-100**

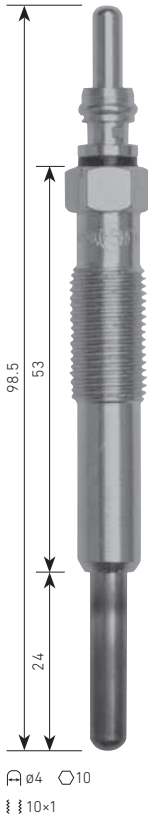
OPEL, VAUXHALL  
X 20 DTL  
⚡11V

**B-101**

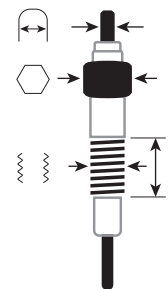
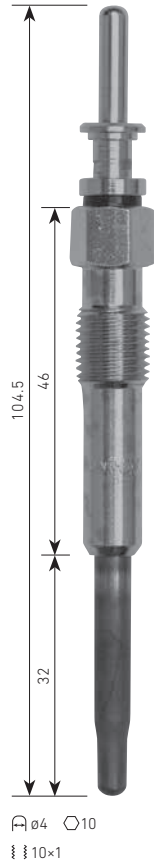
FORD  
ABFA, D2FA, etc.  
⚡11.5V

**B-102**

RENAULT  
F8Q  
⚡11V

**B-104**

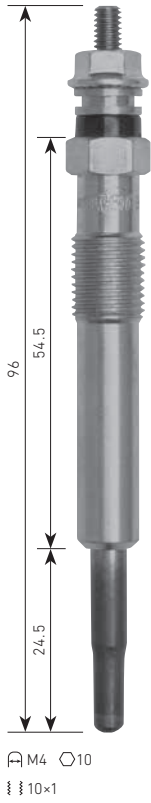
BMW  
M47 D20, etc.  
⚡11V



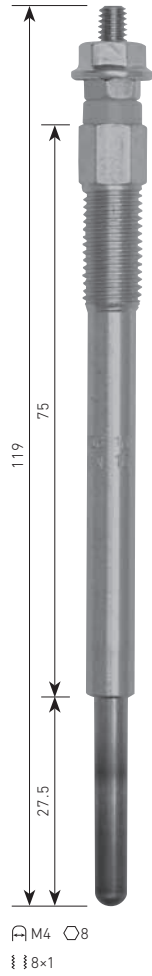
⚡ = VOLTAGE

(ACTUAL SIZE) (mm)

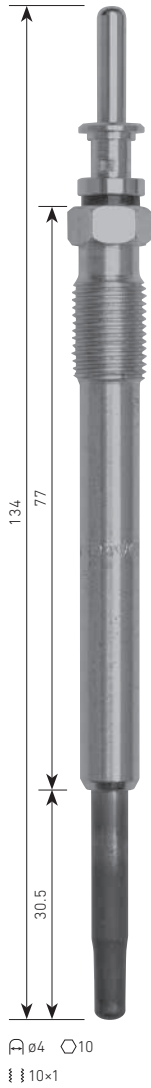
**B-105**  
FORD  
BHDA, etc.  
10V



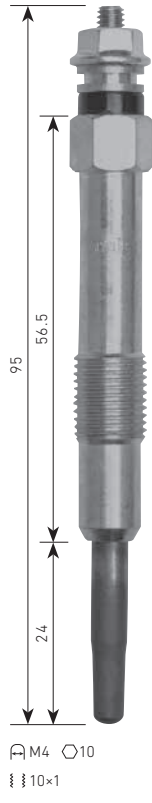
**B-106**  
CITROËN, PEUGEOT  
8HX, etc.  
11V



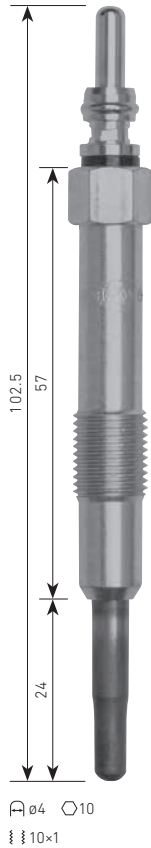
**B-107**  
OPEL, VAUXHALL  
Y20 DTH, etc.  
11V



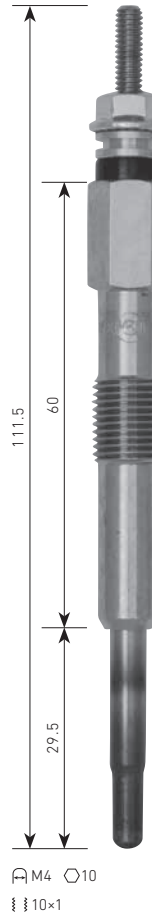
**B-108**  
ALFA ROMEO  
AR 32302, etc.  
11V



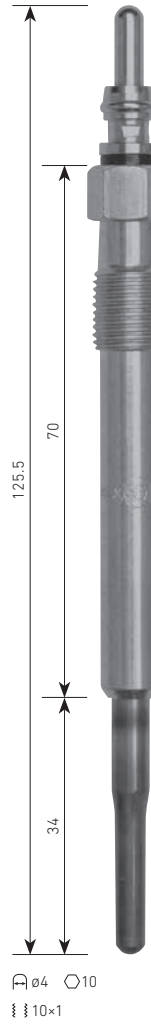
**B-109**  
FIAT  
182 B4.000, etc.  
11V



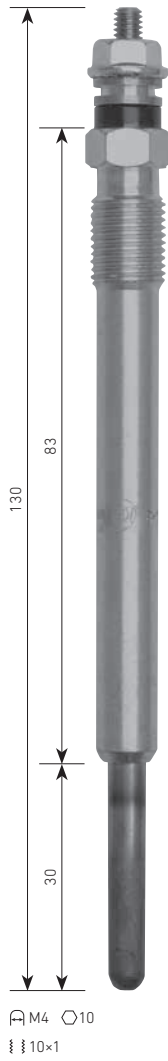
**B-110**  
HYUNDAI, KIA  
D4EA, etc.  
11V



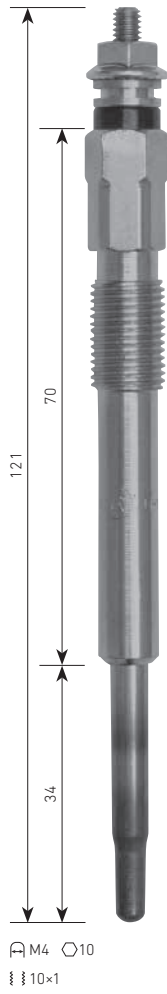
**B-111**  
AUDI  
AFB, etc.  
11V



**B-112**  
**MERCEDES-BENZ**  
 OM 668  
 ⚡11.5V



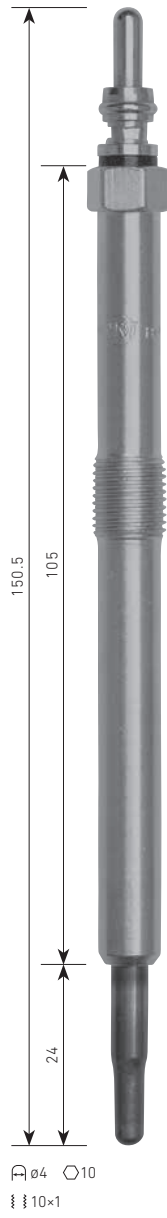
**B-113**  
**CITROËN, PEUGEOT**  
 THX  
 ⚡11V



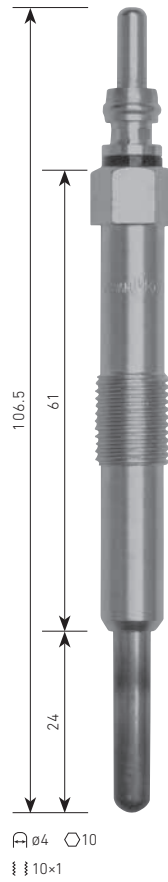
**B-114**  
**SMART**  
 OM 660  
 ⚡11.5V



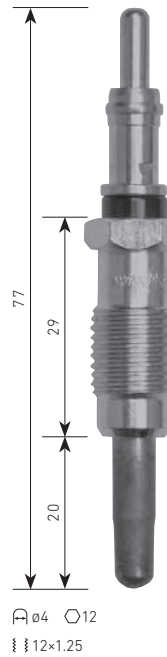
**B-116**  
**NISSAN, RENAULT**  
 G9T, G9U  
 ⚡11V



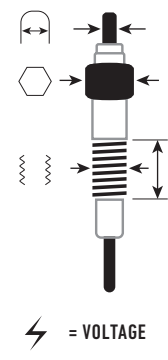
**B-118**  
**LAND ROVER**  
 10P, 14P, 15P  
 ⚡11V



**B-119**  
**FIAT**  
 188 A3.000, etc.  
 ⚡11V



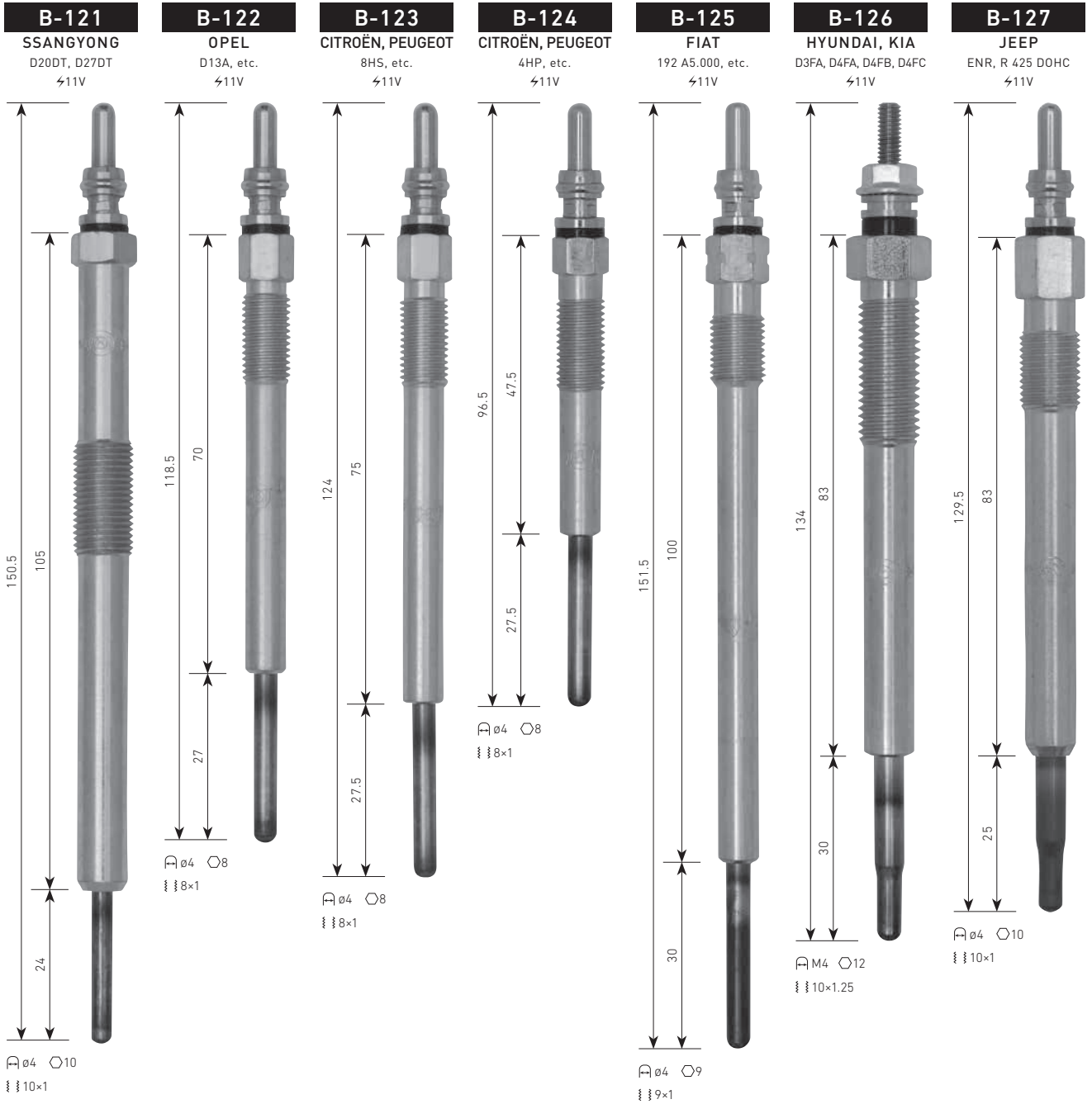
**B-120**  
**HYUNDAI, KIA**  
 D4CB  
 ⚡11V



⚡ = VOLTAGE

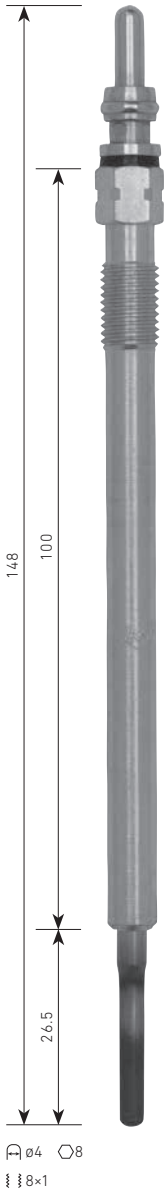


(ACTUAL SIZE) (mm)

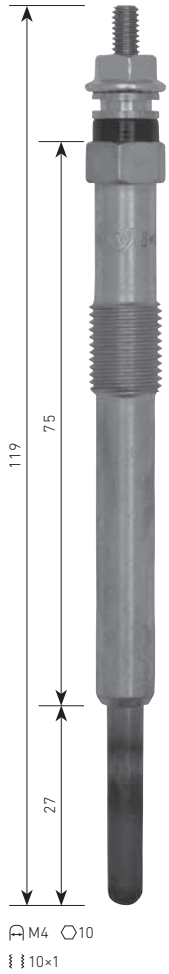


**B-129**

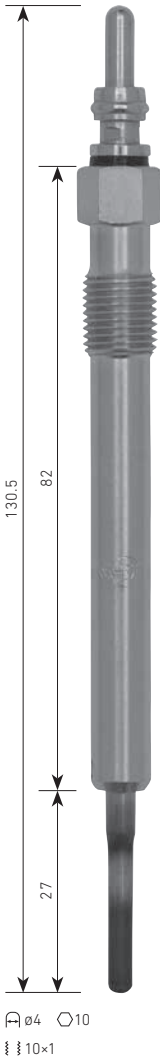
**MERCEDES-BENZ**  
OM 629.910, etc.  
⚡4.4V

**B-131**

**CITROËN, PEUGEOT**  
4HX, etc.  
⚡11V

**B-132**

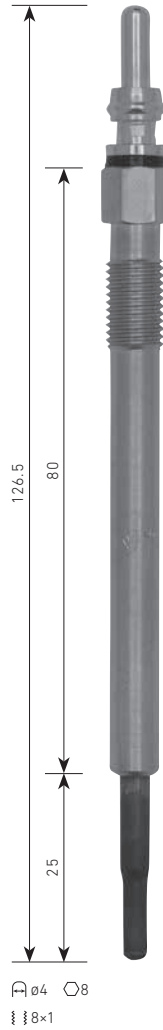
**VOLKSWAGEN**  
CAAA, etc.  
⚡4.4V

**B-133**

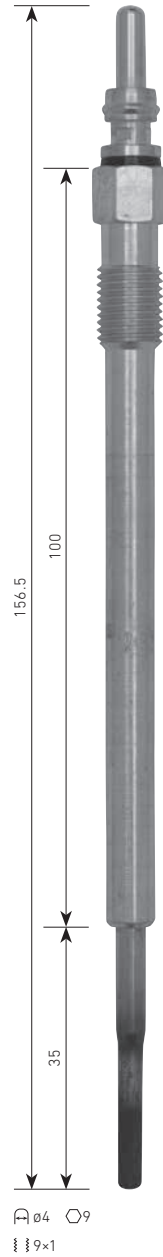
**VOLKSWAGEN**  
BJJ, etc.  
⚡7V

**B-134**

**CITROËN, PEUGEOT**  
D17BTD4, UHZ  
⚡11V

**B-135**

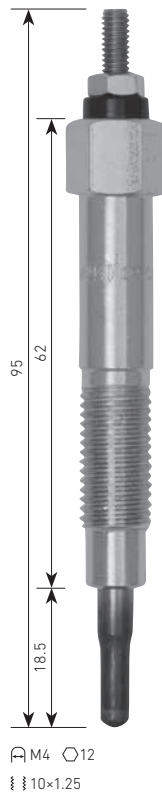
**FIAT**  
D20AA, etc.  
⚡4.4V

**CP-01**

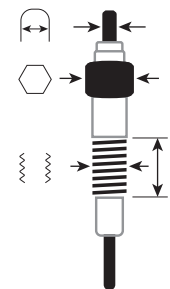
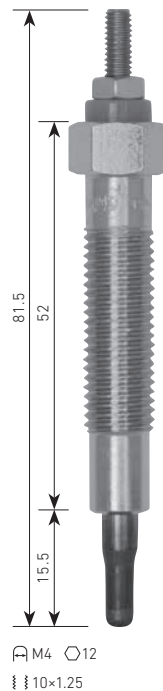
**NISSAN**  
CD17, etc.  
⚡11V

**CP-02**

**NISSAN**  
CD20, etc.  
⚡11V

**CP-03**

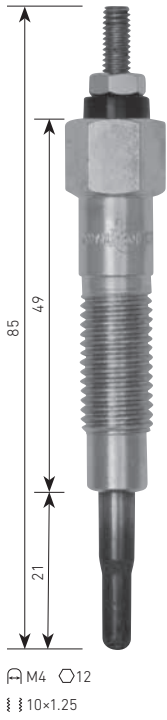
**NISSAN**  
QD32, TD25, TD27  
⚡11V



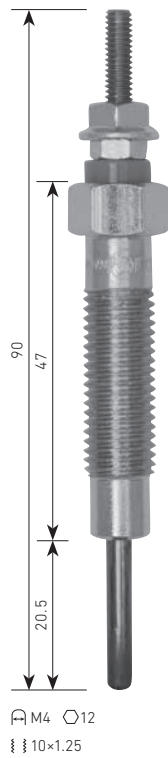
⚡ = VOLTAGE

(ACTUAL SIZE) (mm)

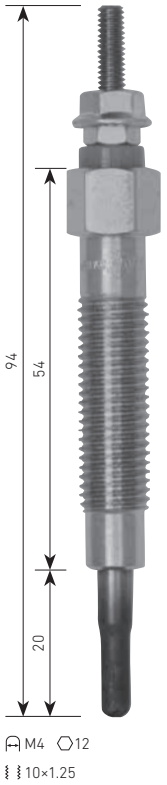
**CP-04**  
NISSAN  
RD28  
⚡11V



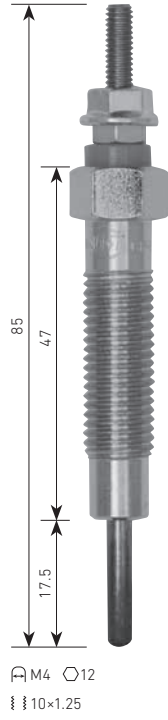
**CP-05**  
MITSUBISHI  
4M40  
⚡11V



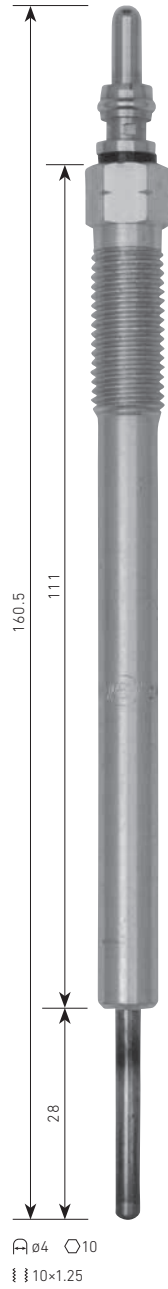
**CP-06**  
MITSUBISHI  
4D56, etc.  
⚡11V



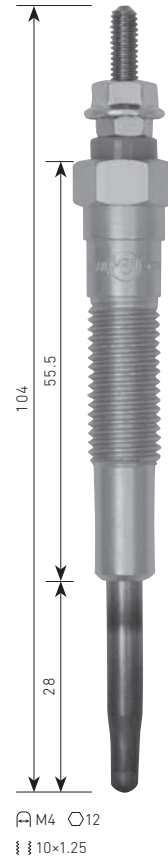
**CP-07**  
MITSUBISHI  
4D56T, etc.  
⚡11V



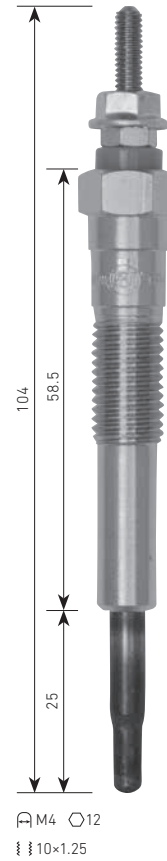
**CP-08**  
MITSUBISHI  
4N13, 4N14, 4N15  
⚡11V



**CP-20**  
TOYOTA  
2L-TE  
⚡11V

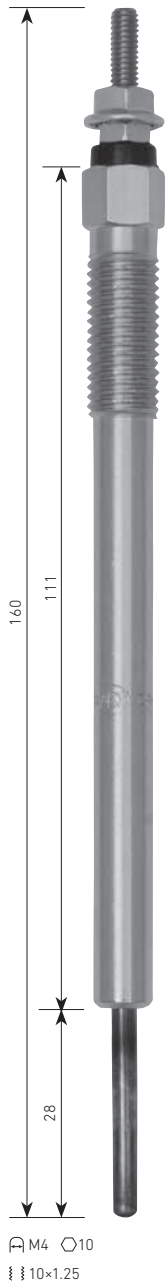


**CP-22**  
TOYOTA  
1KZ-TE, etc.  
⚡11V





**CP-23**  
TOYOTA  
1VD-FTV, etc.  
⚡11V



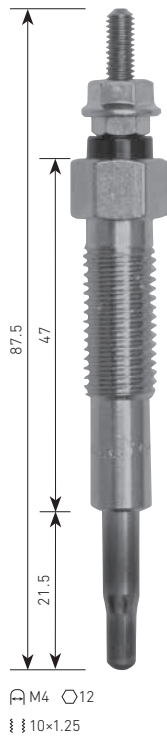
**CP-24**  
TOYOTA  
1AD-FTV  
⚡7V



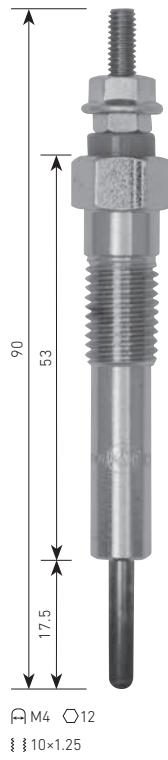
**CP-25**  
TOYOTA  
16D-FTV, etc.  
⚡7V



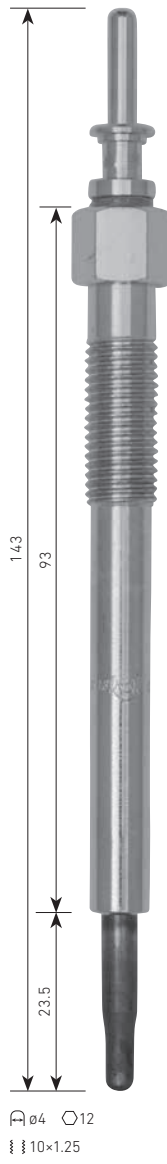
**CP-30**  
MAZDA  
PN  
⚡6.2V



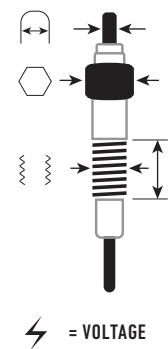
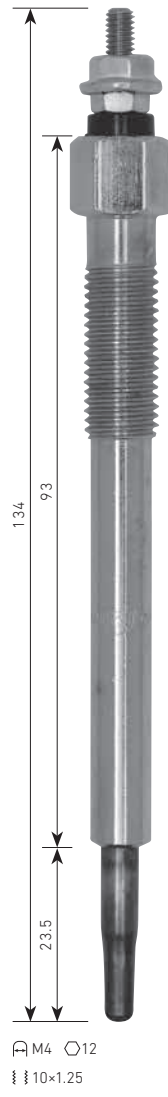
**CP-50**  
MAZDA  
4EE1  
⚡11V



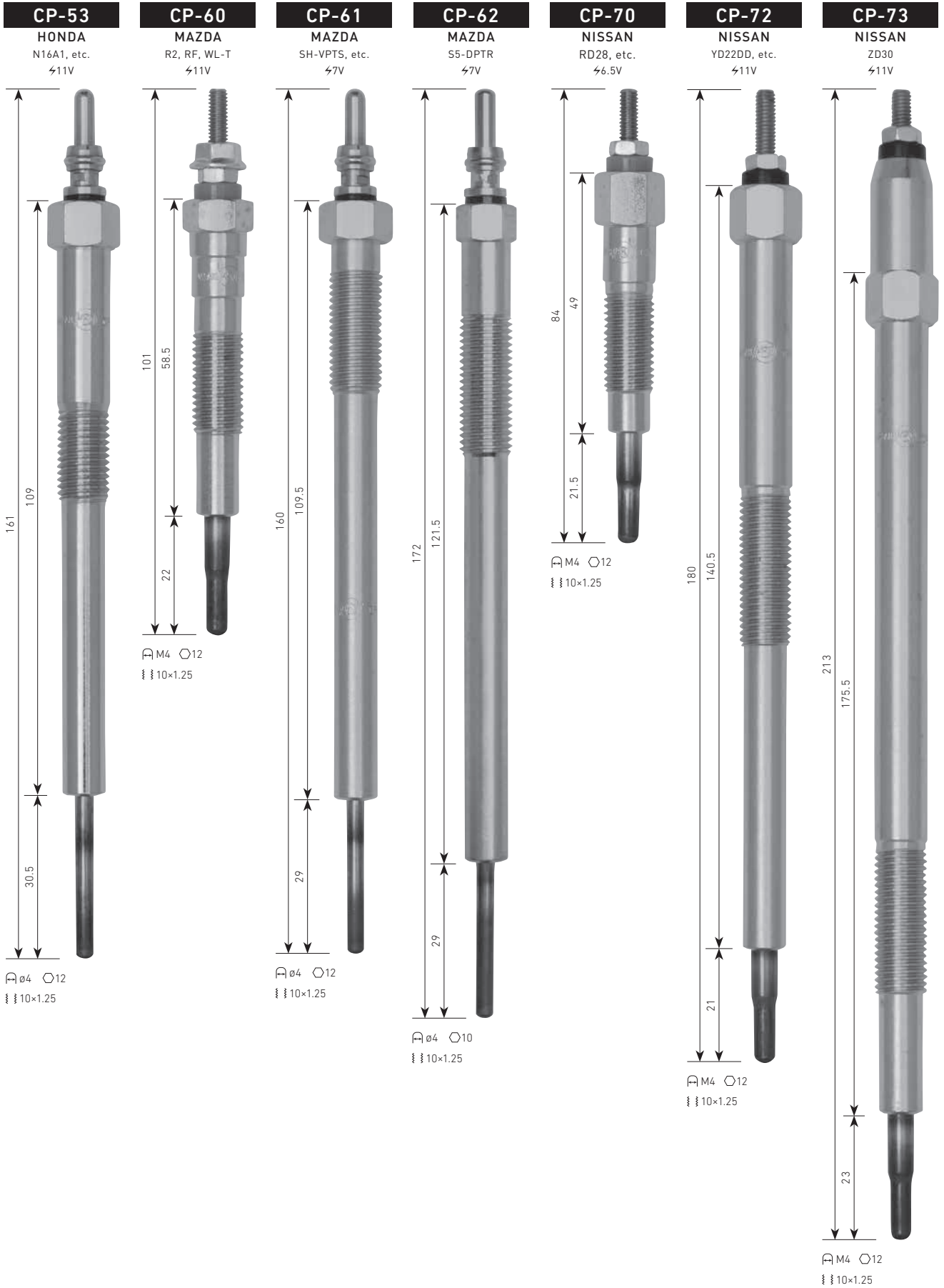
**CP-51**  
HONDA  
1.7CTDi  
⚡11V



**CP-52**  
RENAULT  
⚡11V

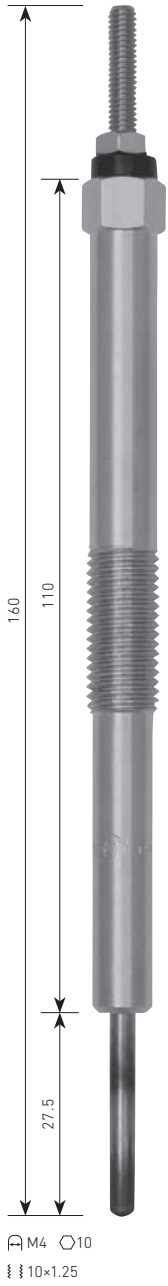


(ACTUAL SIZE) (mm)

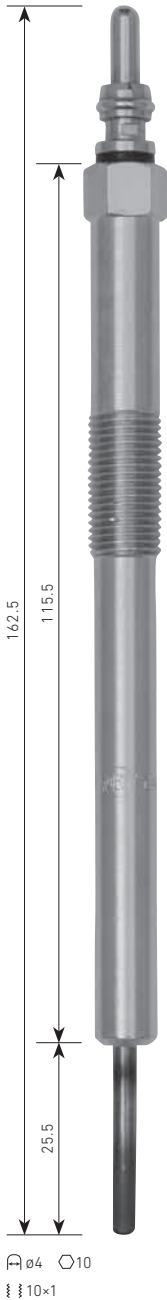


**CP-74**

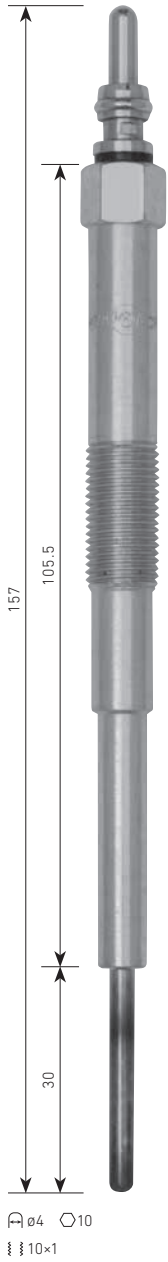
TOYOTA  
1ND-TV  
⚡11V

**CP-75**

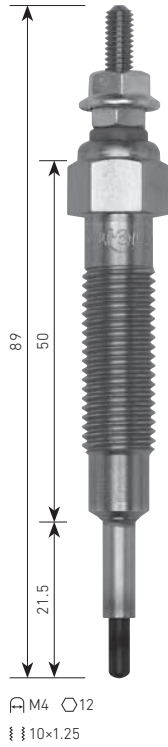
NISSAN  
M9R  
⚡7V

**CP-81**

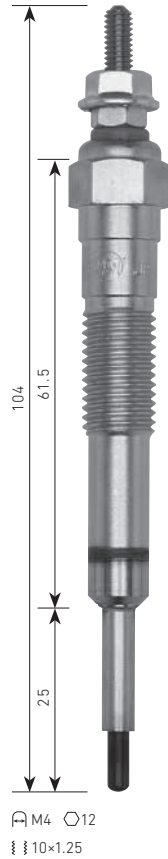
SUBARU  
EE20Z  
⚡11V

**JPX-05**

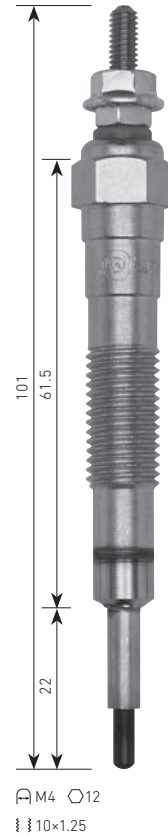
MITSUBISHI  
4M40  
⚡11V

**JPX-22**

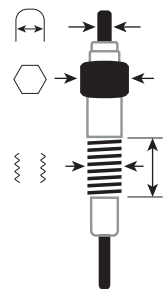
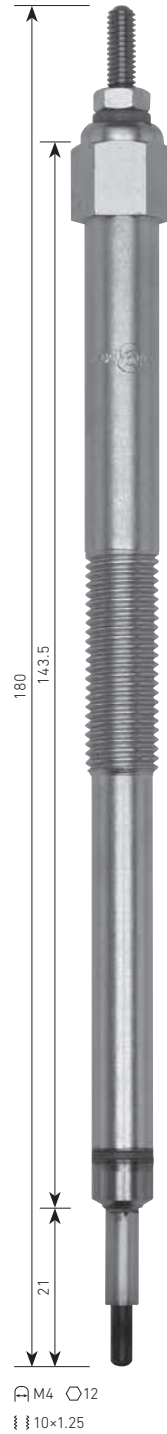
TOYOTA  
1KZ-TE, etc.  
⚡11V

**JPX-60**

MAZDA  
R2, RF, WL-T  
⚡11V

**JPX-72**

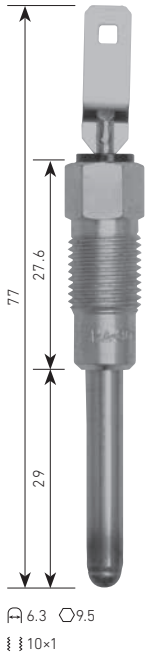
NISSAN  
YD22DD, etc.  
⚡11V



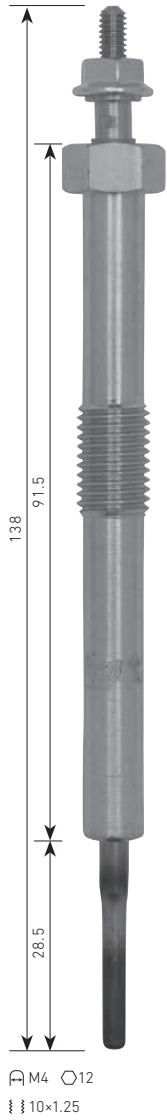
⚡ = VOLTAGE

(ACTUAL SIZE) (mm)

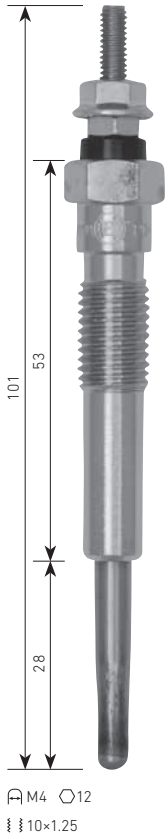
**PA-306**  
CHEVROLET  
L56  
⚡10.5V



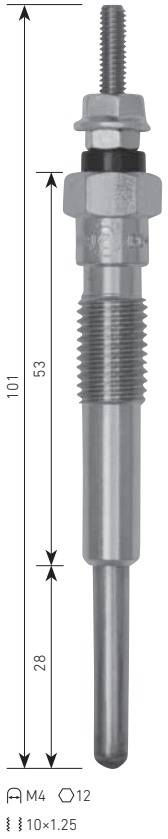
**PA-309**  
CHEVROLET  
6.6L DURAMAX V8  
⚡4.85V



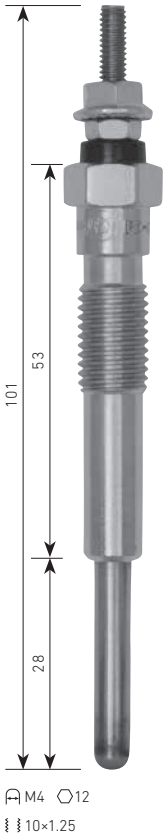
**PD-190**  
DAIHATSU  
DL, etc.  
⚡7V



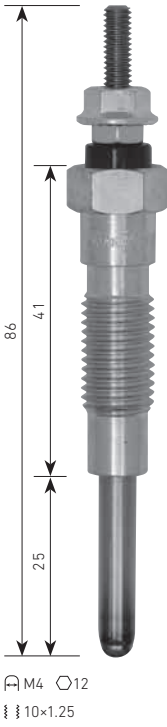
**PD-191**  
DAIHATSU  
2C, etc.  
⚡11V



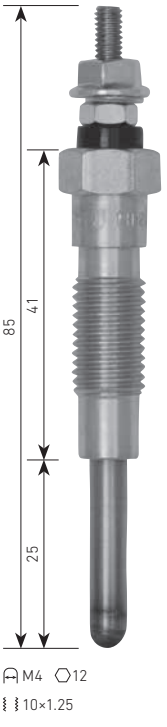
**PD-192**  
DAIHATSU  
CL30, CL70, etc.  
⚡11V



**PH-20**  
HINO  
DK10, etc.  
⚡22.5V

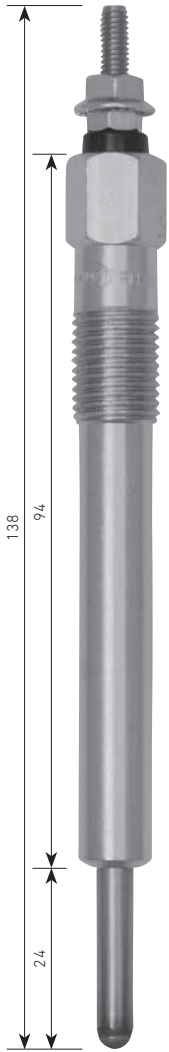


**PH-21**  
HINO  
DM100, etc.  
⚡19V



**PH-22**

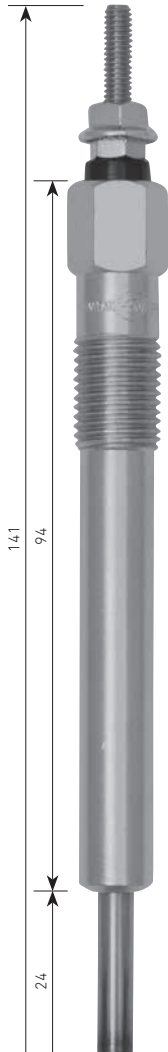
HINO

H06C, H07C, W04D  
⚡23V

⌀ M4    ⌀12  
 12x1.25

**PH-25**

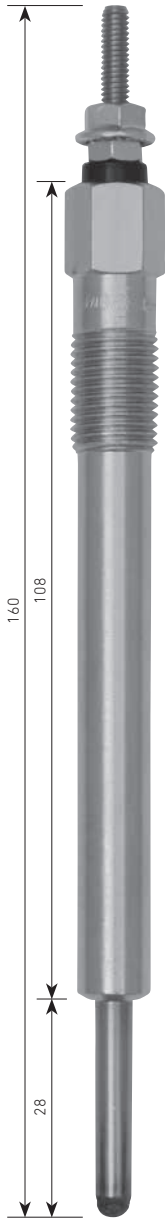
HINO

EM100, etc.  
⚡10.5V

⌀ M4    ⌀12  
 12x1.25

**PH-26**

HINO

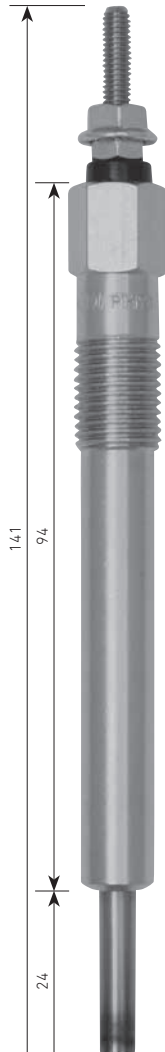
J05C, S05C, S05D  
⚡23V

⌀ M4    ⌀12  
 12x1.25

**PI-170**

ISUZU

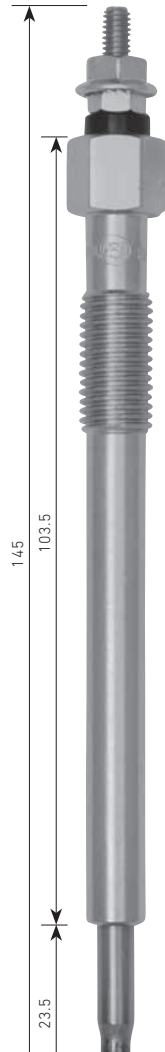
⚡11V



⌀ M4    ⌀12  
 12x1.25

**PI-172**

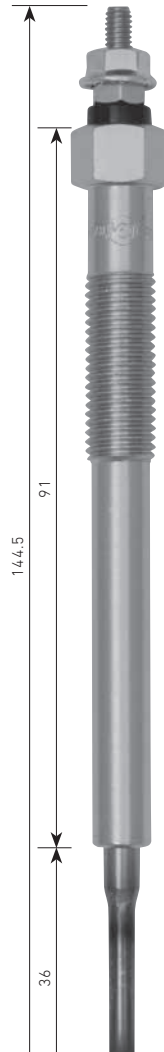
ISUZU

4JX1  
⚡11V

⌀ M4    ⌀12  
 10x1.25

**PI-173**

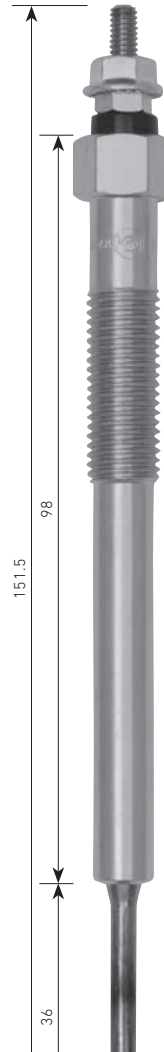
ISUZU

4HL1, 4HU1  
⚡23V

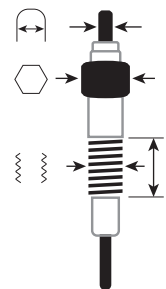
⌀ M4    ⌀12  
 10x1.25

**PI-175**

ISUZU

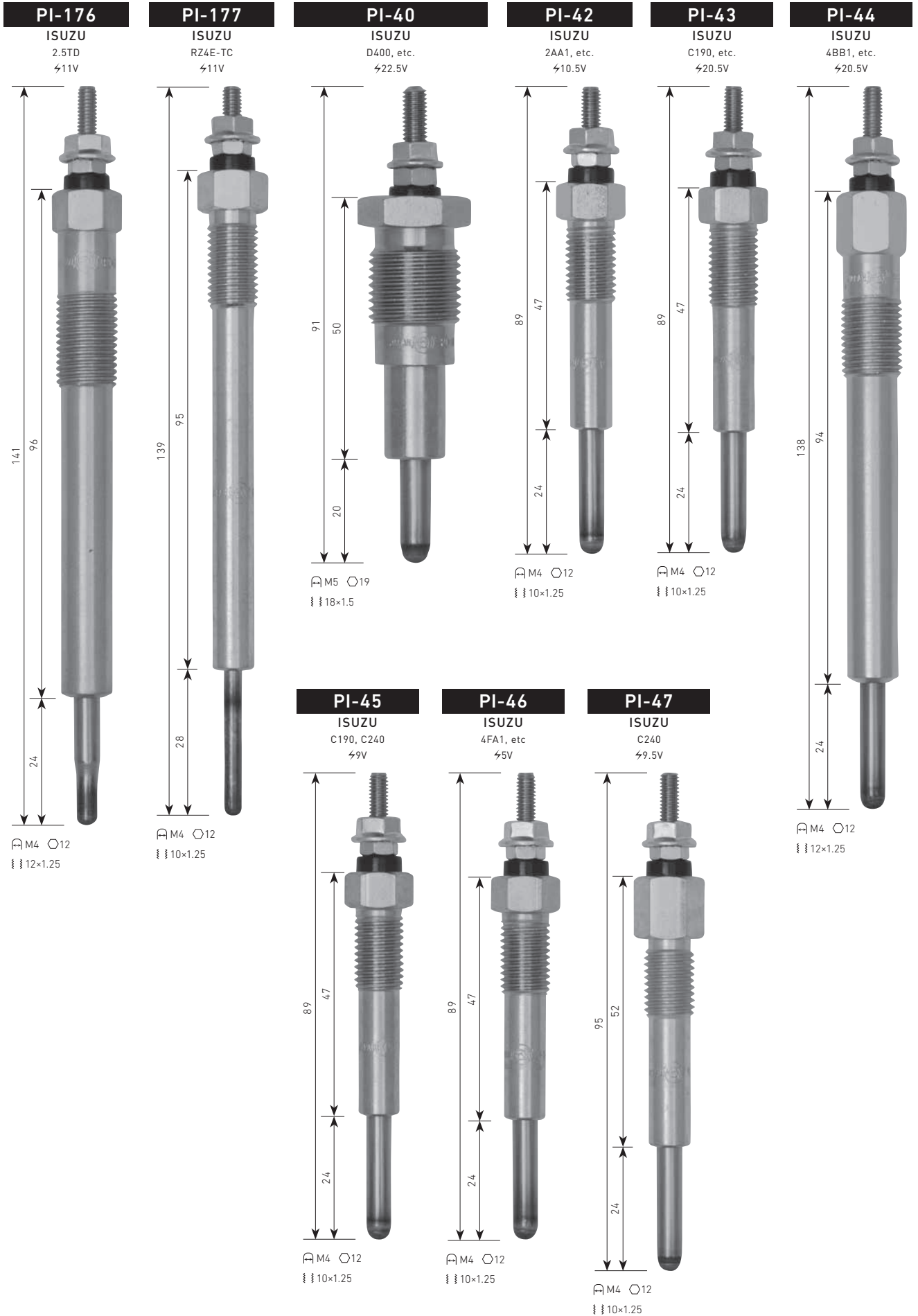
4JJ1  
⚡11V

⌀ M4    ⌀12  
 10x1.25

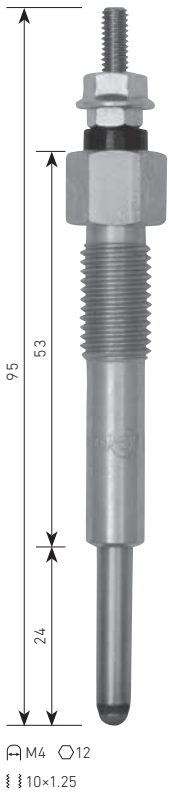
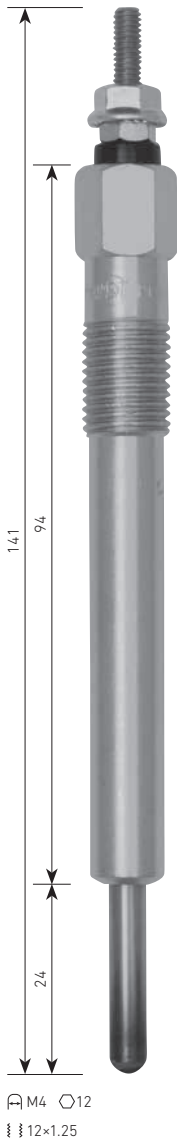
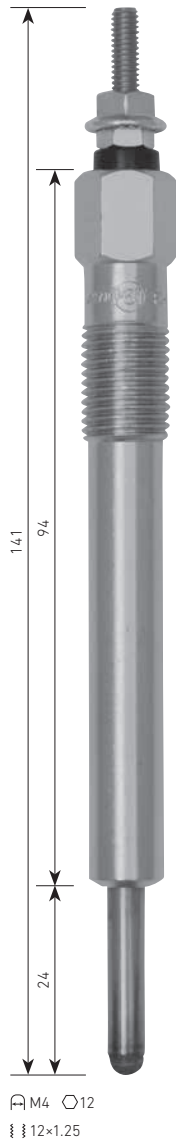
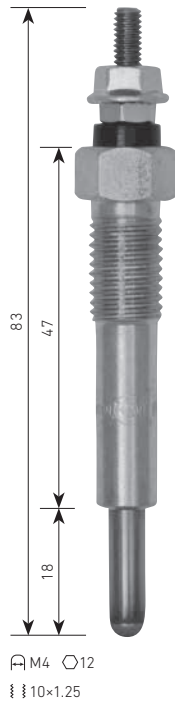
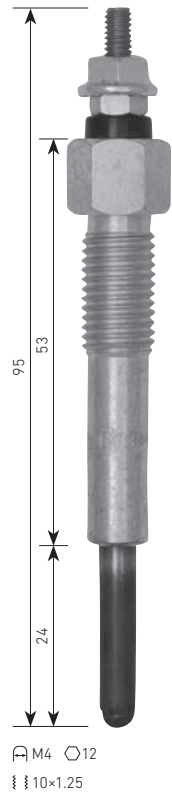
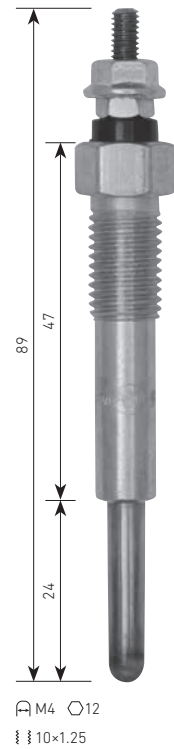
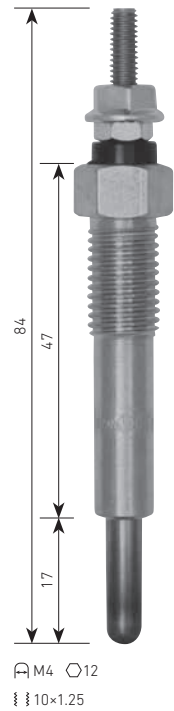
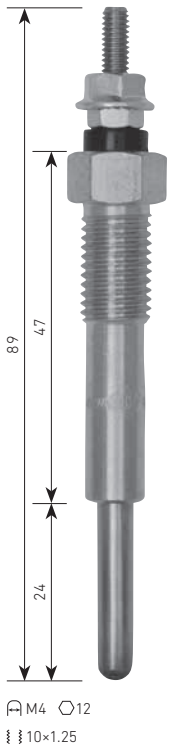
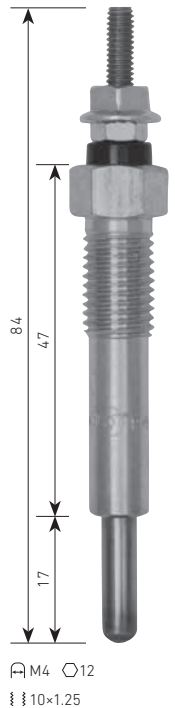
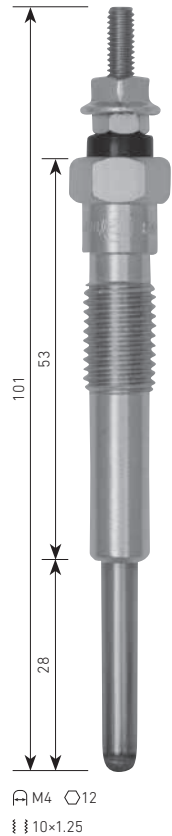
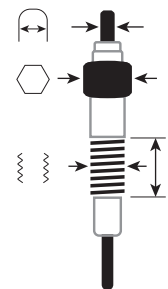


⚡ = VOLTAGE

(ACTUAL SIZE) (mm)



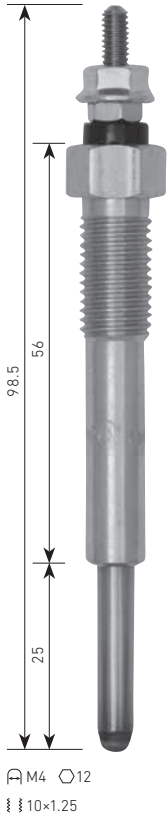


**PI-48**ISUZU  
4BA1, 4BC1  
⚡9.5V**PI-49**ISUZU  
4JA1, etc.  
⚡11V**PI-50**ISUZU  
4BC2, etc.  
⚡23V**PI-51**ISUZU  
4EC1T, etc.  
⚡5V**PI-52**ISUZU  
4BA1  
⚡23V**PI-55**ISUZU  
4EC1  
⚡5V**PI-57**ISUZU  
4EC1T, etc.  
⚡11V**PI-58**ISUZU  
C233, etc.  
⚡11V**PI-59**ISUZU  
4FG1, etc.  
⚡11V**PK-115**KOMATSU  
4D105  
⚡20.5V**PK-116**KOMATSU  
4D92  
⚡22.5V

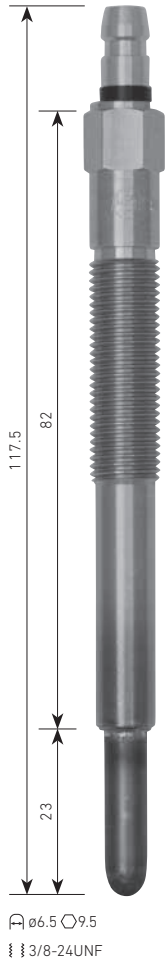
⚡ = VOLTAGE

(ACTUAL SIZE) (mm)

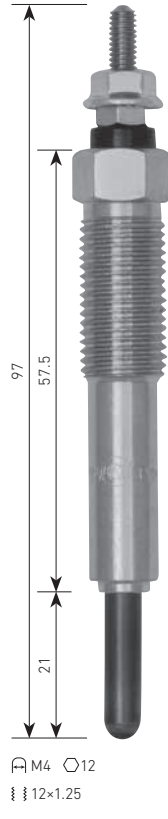
**PK-96**  
KOMATSU  
4D120, 4D130  
↖22.5V



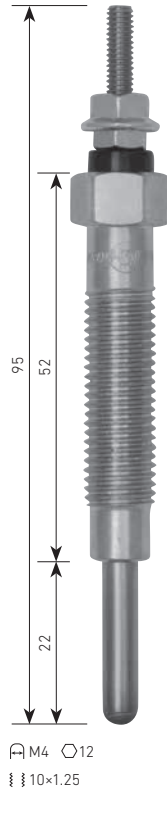
**PK-98**  
KOMATSU  
3300, 3304, 340  
↖24V



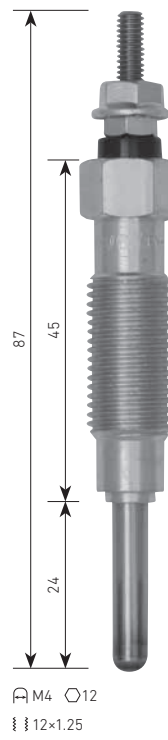
**PM-160**  
MITSUBISHI  
4D30  
↖24V



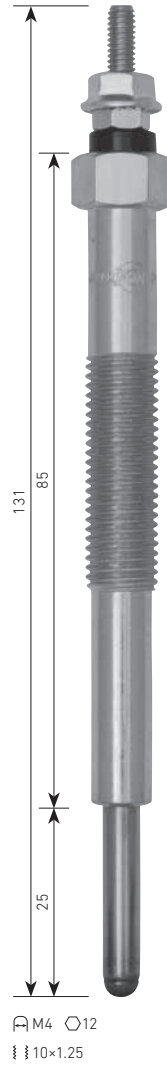
**PM-161**  
MITSUBISHI  
4D55  
↖6V



**PM-162**  
MITSUBISHI  
4DR7  
↖11V



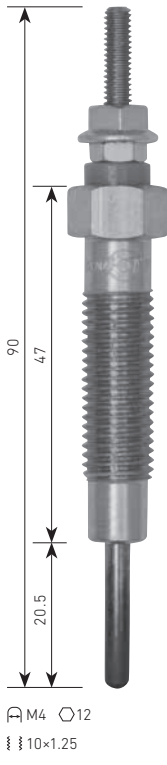
**PM-163**  
MITSUBISHI  
4D32, etc.  
↖23V



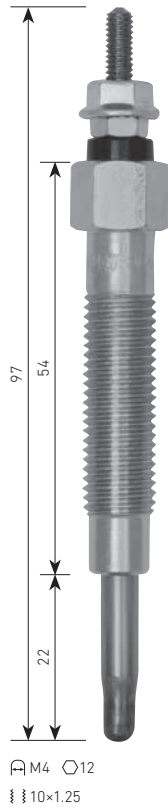
**PM-164**  
MITSUBISHI  
4D56  
↖11V



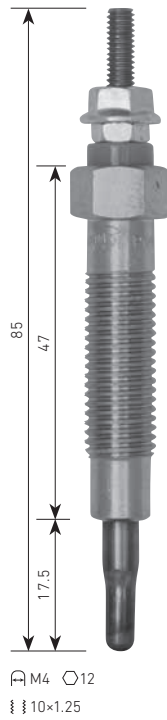
**PM-165**  
MITSUBISHI  
4M40, 4M40T  
↖11V



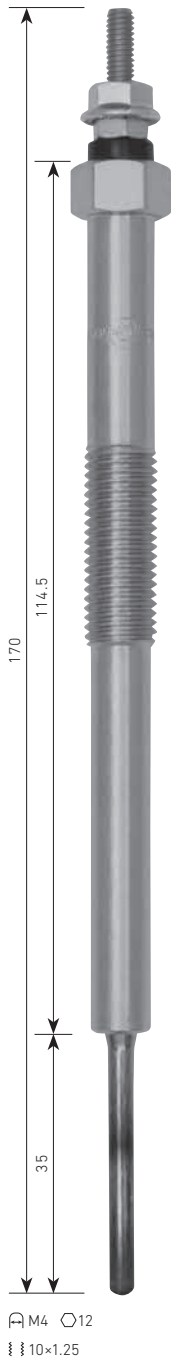
**PM-166**  
HYUNDAI  
D4BA  
↖11V



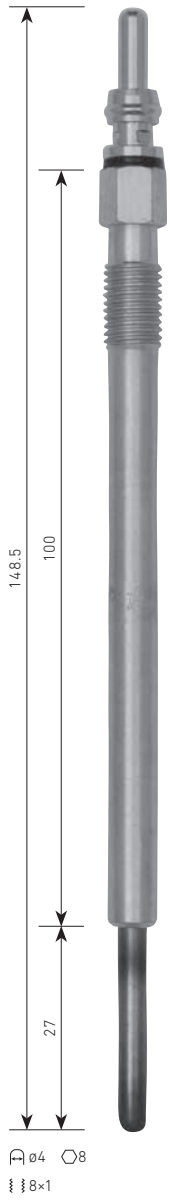
**PM-167**  
MITSUBISHI  
4D56T, 4D68  
↖11V



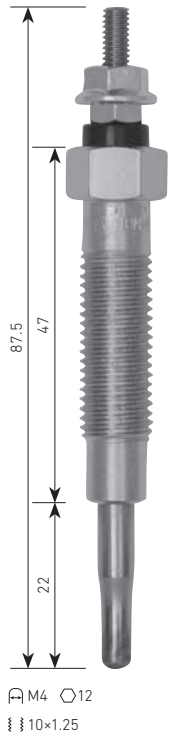
**PM-168**  
MITSUBISHI  
4M41  
⚡11V



**PM-169**  
MITSUBISHI  
OM 639  
⚡11.5V



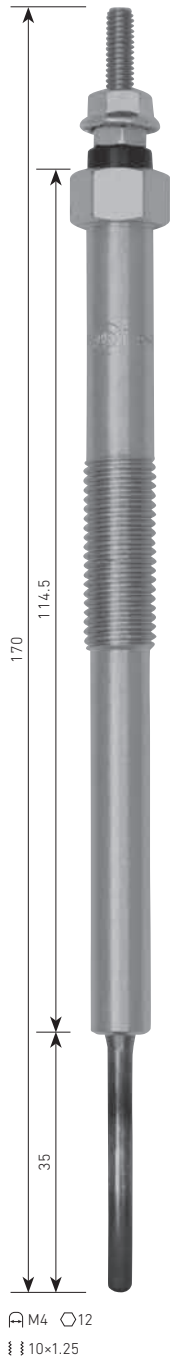
**PM-400**  
MITSUBISHI  
2.5L SOHC  
⚡11V



**PM-405**  
MITSUBISHI  
4N14, etc.  
⚡4.4V



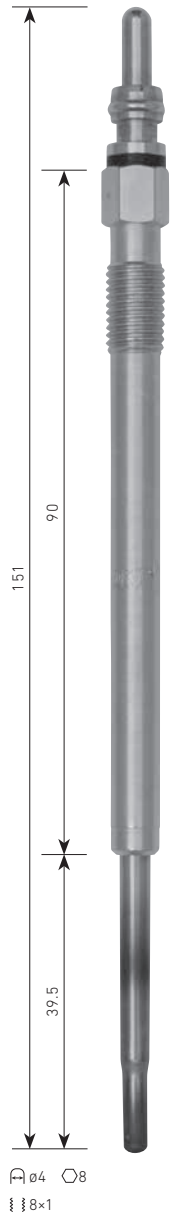
**PM-401**  
MITSUBISHI  
4M42  
⚡23V



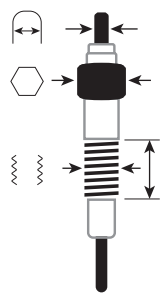
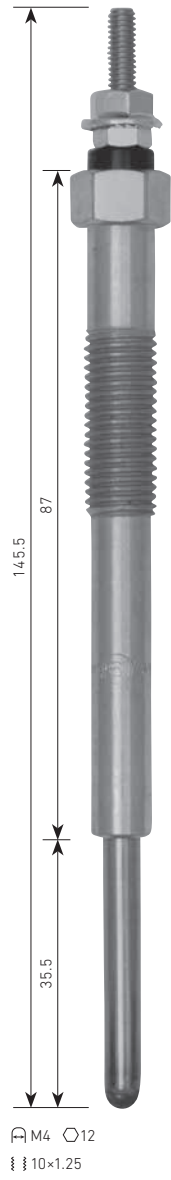
**PM-402**  
MITSUBISHI  
4D56T, 4M41  
⚡11V



**PM-403**  
MITSUBISHI  
4P10  
⚡11V



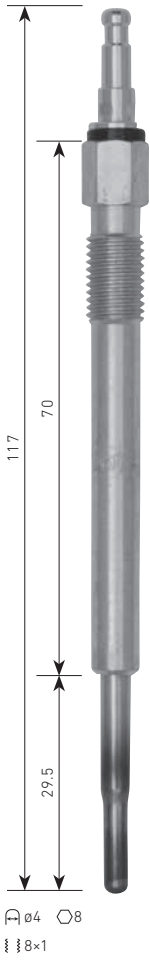
**PM-404**  
MITSUBISHI  
6D16, 6D17  
⚡23V



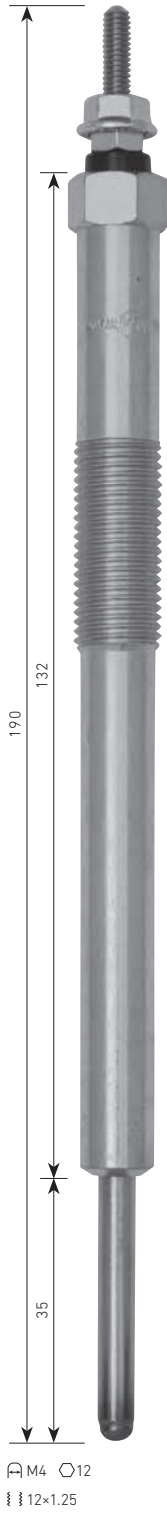
⚡ = VOLTAGE

(ACTUAL SIZE) (mm)

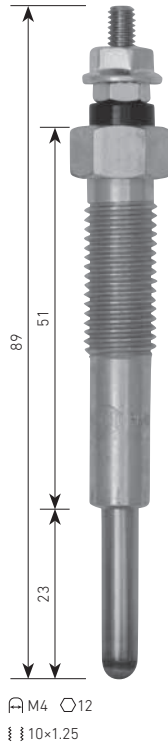
**PM-406**  
**mitsubishi**  
 BSY, BWC  
 ⚡7V



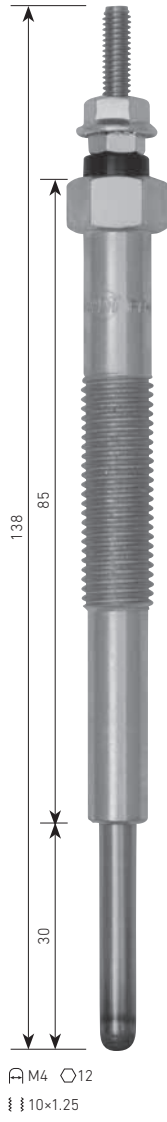
**PM-407**  
**mitsubishi**  
 4M50, 4M51  
 ⚡23V



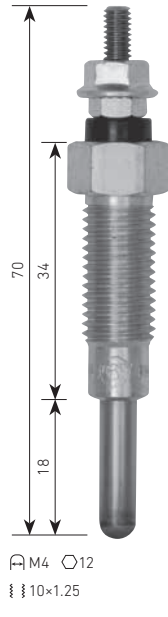
**PM-60**  
**mitsubishi**  
 6DB1, etc.  
 ⚡22.5V



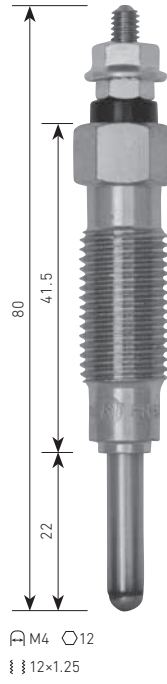
**PM-61**  
**mitsubishi**  
 6DC2, etc.  
 ⚡22.5V



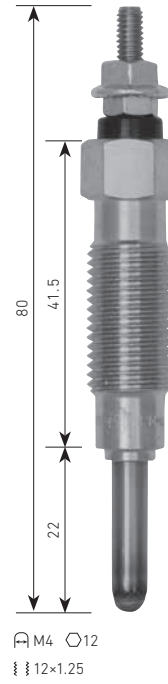
**PM-62**  
**mitsubishi**  
 4DQ  
 ⚡10.5V



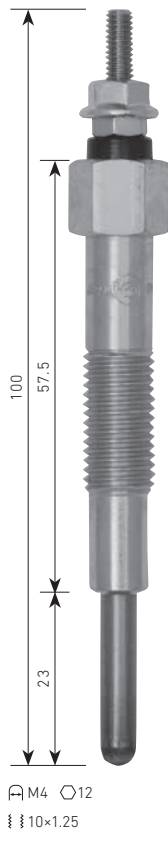
**PM-63**  
**mitsubishi**  
 4DR1, 4DR5  
 ⚡10.5V



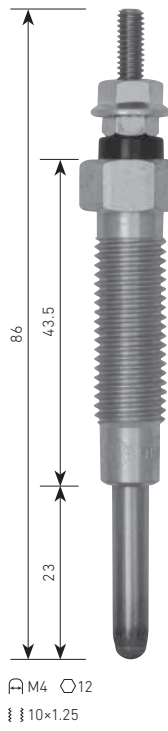
**PM-65**  
**mitsubishi**  
 4DR5, 6DR5  
 ⚡22.5V



**PM-66**  
**mitsubishi**  
 6D10, 6D11  
 ⚡21V



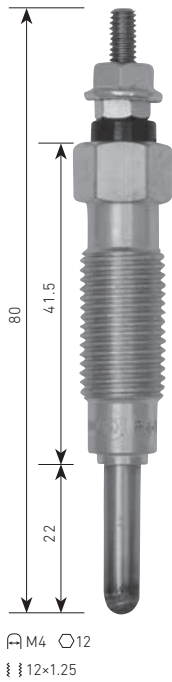
**PM-70**  
**mitsubishi**  
 4DQ50  
 ⚡22.5V



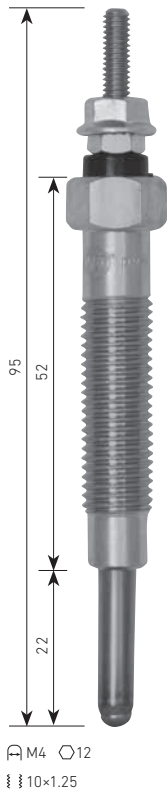
**PM-73**  
**mitsubishi**  
 4D30  
 ⚡20.5V



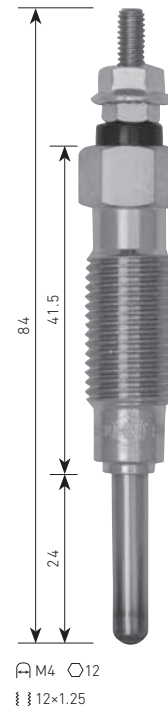
**PM-74**  
**MITSUBISHI**  
 4DR5  
 ⚡20.5V



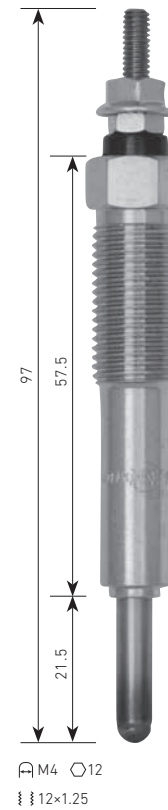
**PM-75**  
**MITSUBISHI**  
 4D55, 4D56  
 ⚡12V



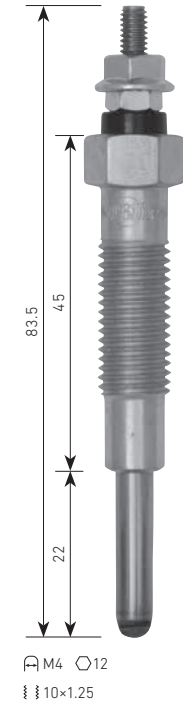
**PM-77**  
**MITSUBISHI**  
 4DR5  
 ⚡11V



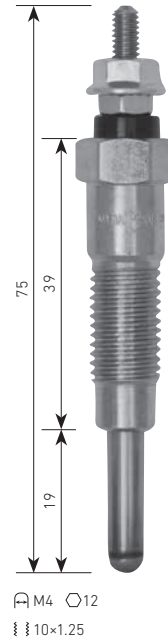
**PM-78**  
**MITSUBISHI**  
 4D30  
 ⚡23V



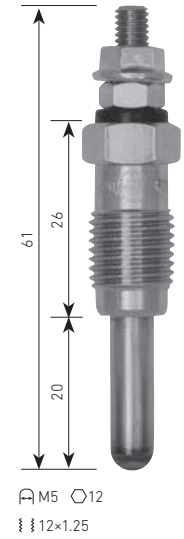
**PM-79**  
**MITSUBISHI HEAVY IND**  
 K2AS, etc.  
 ⚡10.5V



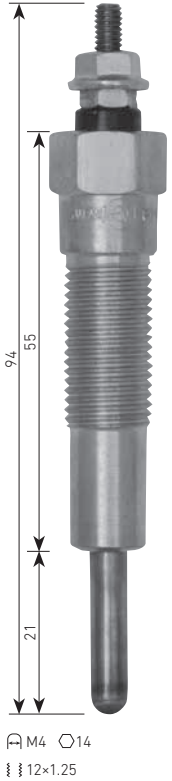
**PN-120**  
**NISSAN**  
 SD22, SD33  
 ⚡23V



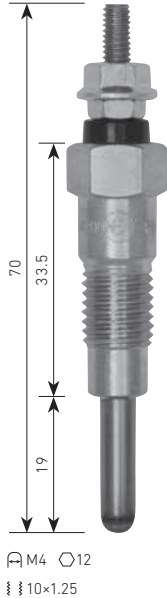
**PN-121**  
**NISSAN**  
 LD20, LD28  
 ⚡6.5V



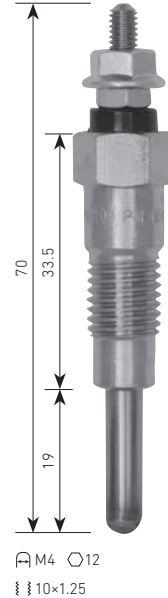
**PN-122**  
**NISSAN**  
 ED30  
 ⚡9.5V



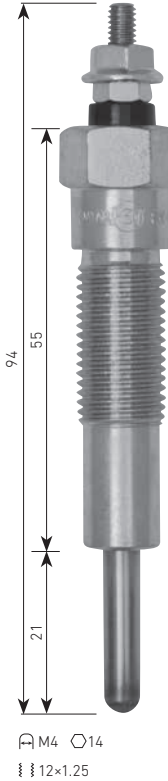
**PN-123**  
**NISSAN**  
 SD23, etc.  
 ⚡8.5V



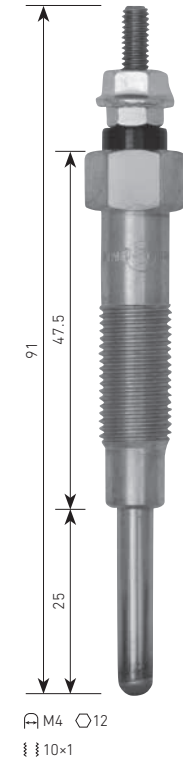
**PN-124**  
**NISSAN**  
 SD23, etc.  
 ⚡23V



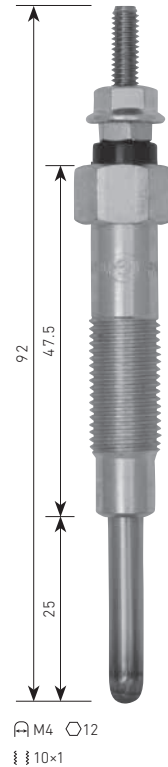
**PN-125**  
**NISSAN**  
 ED33  
 ⚡23V



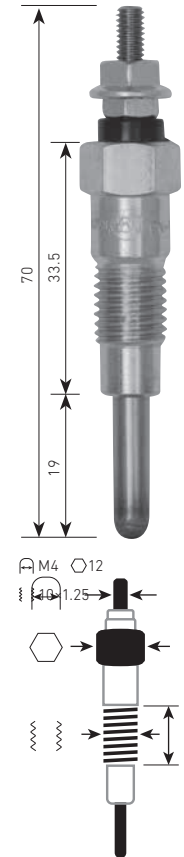
**PN-126**  
**NISSAN**  
 CD17  
 ⚡6.5V



**PN-127**  
**NISSAN**  
 CD17  
 ⚡8.5V

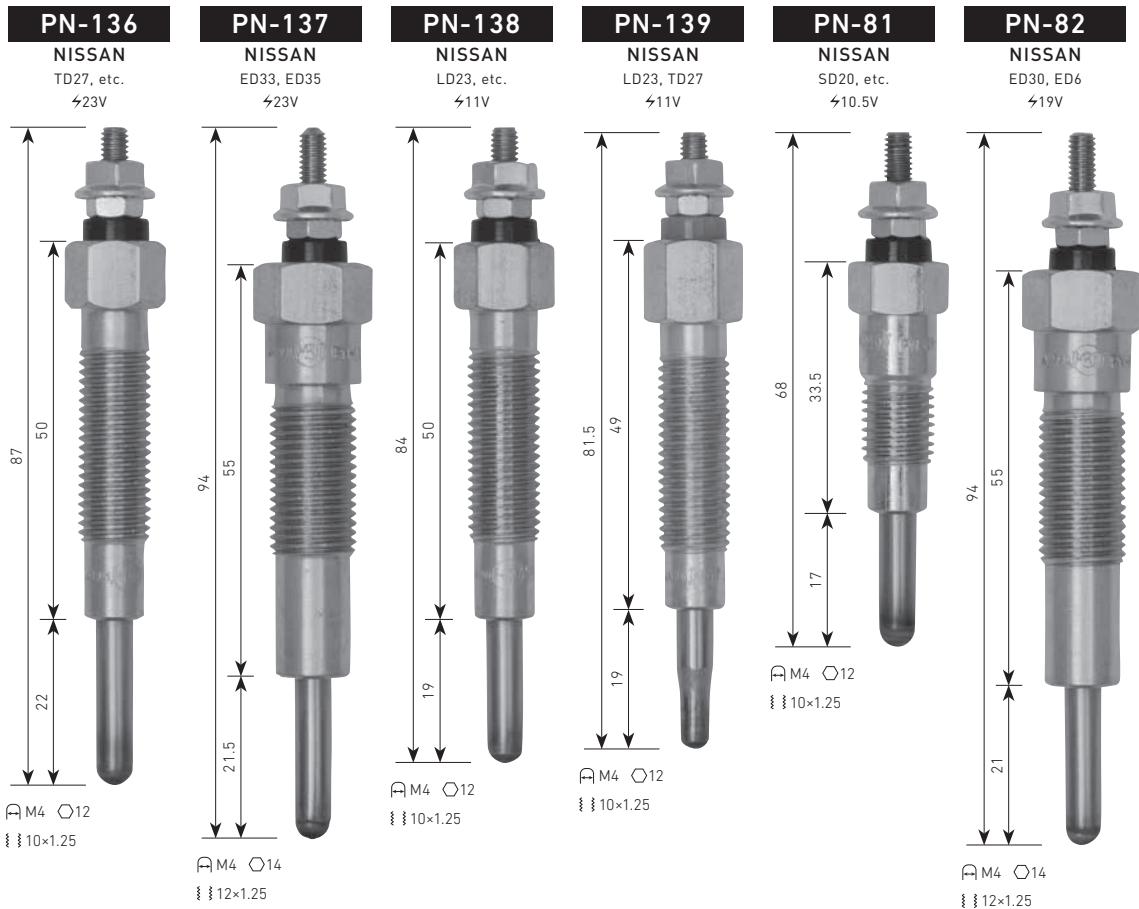
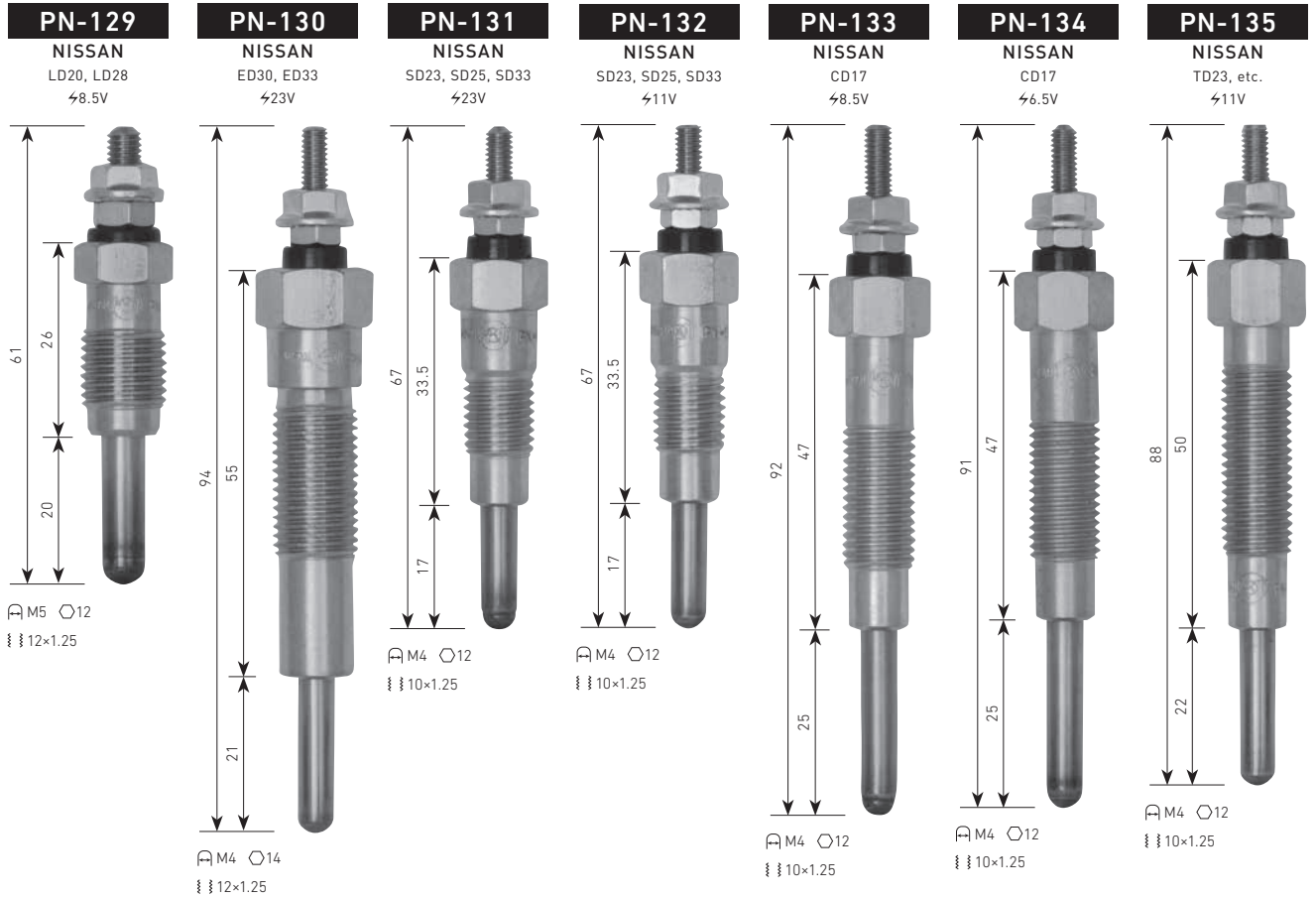


**PN-128**  
**NISSAN**  
 SD15, etc.  
 ⚡6.5V



⚡ = VOLTAGE

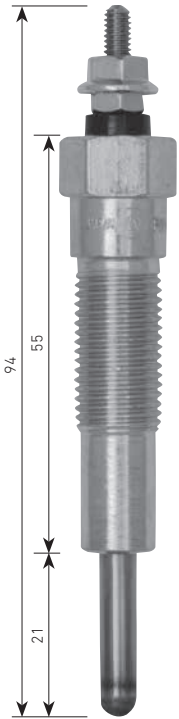
(ACTUAL SIZE) (mm)





**PN-84**

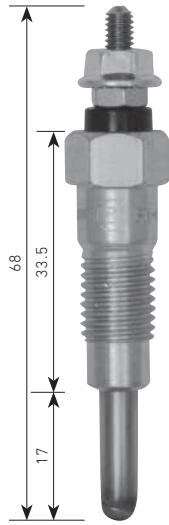
NISSAN  
ED30  
⚡10V



⌀ M4    ⌀14  
~ 12x1.25

**PN-85**

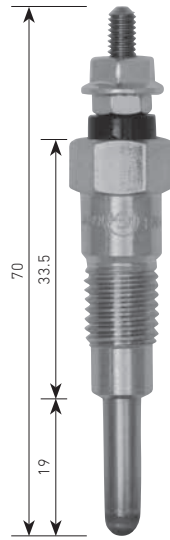
NISSAN  
SD20, etc.  
⚡9V



⌀ M4    ⌀12  
~ 10x1.25

**PN-86**

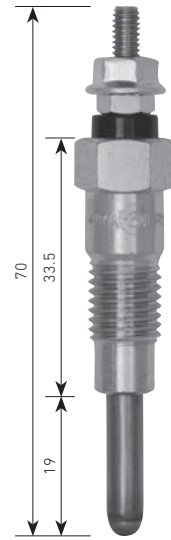
NISSAN  
SD15, etc.  
⚡9.5V



⌀ M4    ⌀12  
~ 10x1.25

**PN-87**

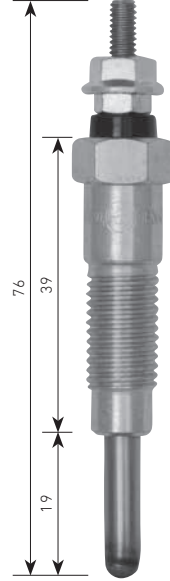
NISSAN  
SD20, etc.  
⚡11V



⌀ M4    ⌀12  
~ 10x1.25

**PN-88**

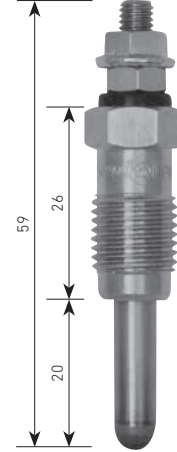
NISSAN  
SD22, etc.  
⚡19V



⌀ M4    ⌀12  
~ 10x1.25

**PN-89**

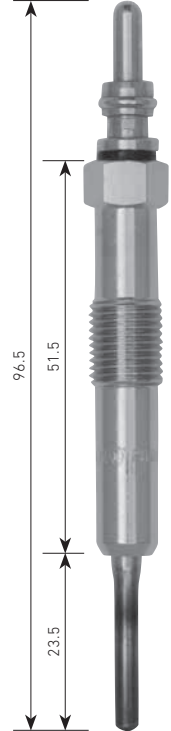
NISSAN  
LD20, LD28  
⚡11V



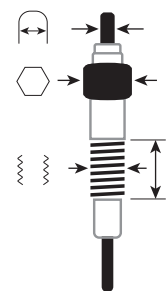
⌀ M5    ⌀12  
~ 12x1.25

**PN-900**

NISSAN, RENAULT  
K9K  
⚡4.4V



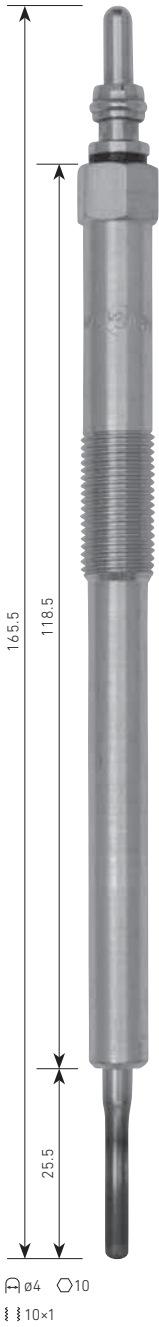
⌀ ⌀4    ⌀10  
~ 10x1



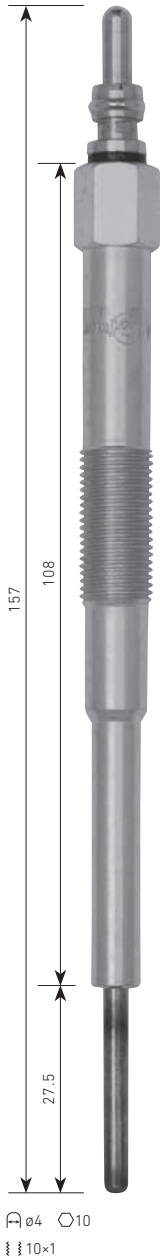
⚡ = VOLTAGE

(ACTUAL SIZE) (mm)

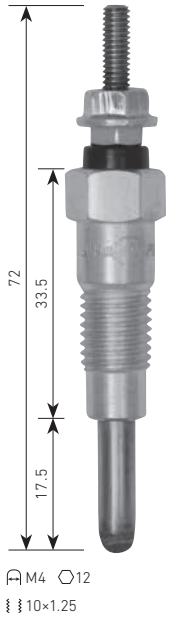
**PN-901**  
NISSAN, RENAULT  
M9T, R9M  
⚡4.5V



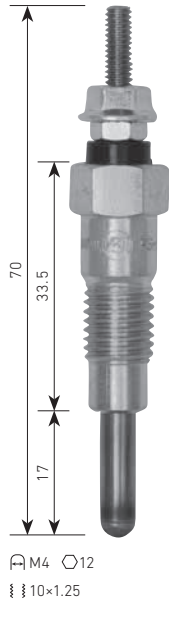
**PR-801**  
SUBARU  
EE20Z  
⚡11V



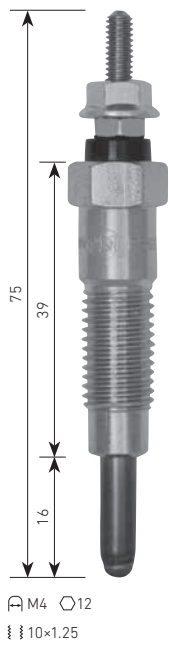
**PS-200**  
KUBOTA  
⚡12.5V



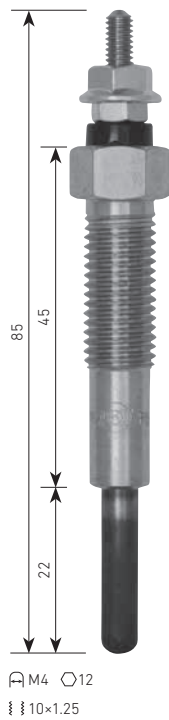
**PS-201**  
KUBOTA  
D600-C, etc.  
⚡10.5V



**PS-202**  
KUBOTA  
D1102, etc.  
⚡10.5V



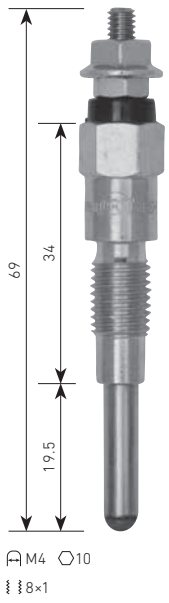
**PS-203**  
ISHIKAWAJIMA  
⚡10.5V



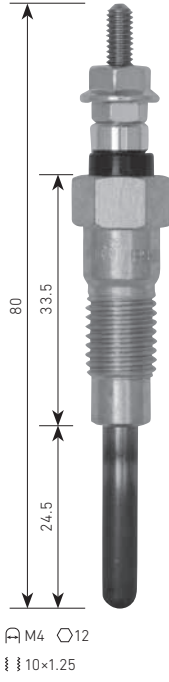
**PS-204**  
KUBOTA  
Z650, etc.  
⚡10.5V



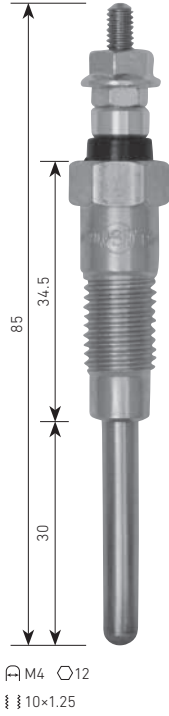
**PS-206**  
KUBOTA  
D662, etc.  
⚡11V

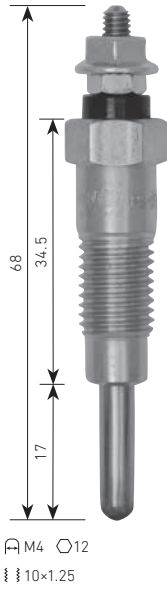


**PS-207**  
KUBOTA  
D905, etc.  
⚡11V

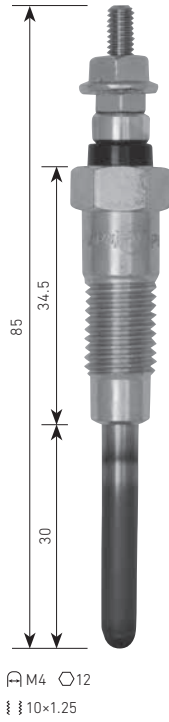


**PS-208**  
KUBOTA  
D1403, etc.  
⚡11V

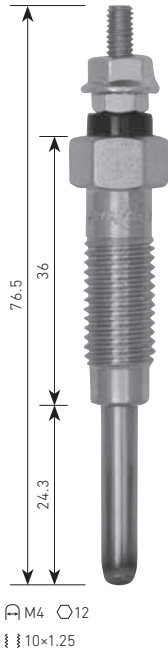


**PS-209****KUBOTA**D1462DI-C, etc.  
⚡10.5V**PS-210****YANMAR**3TN63U-NC, etc.  
⚡10V**PS-215****ONAN**

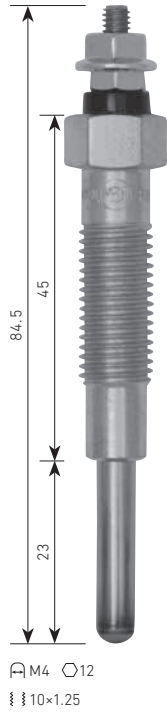
⚡23V

**PS-216****MITSUBISHI HEAVY IND**

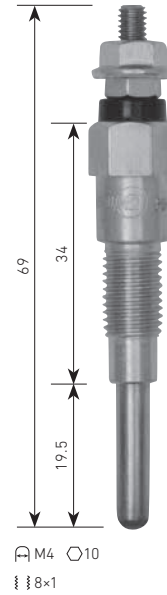
⚡10.5V

**PS-217****MITSUBISHI HEAVY IND**

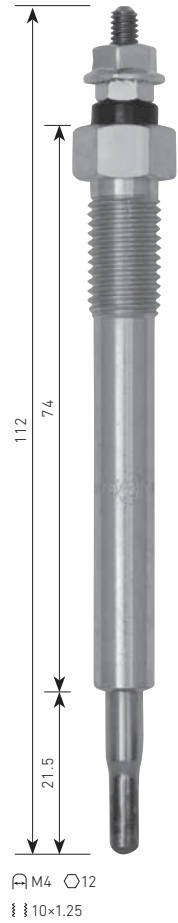
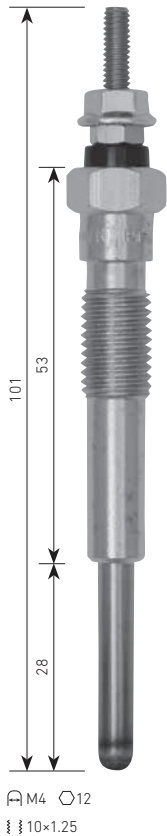
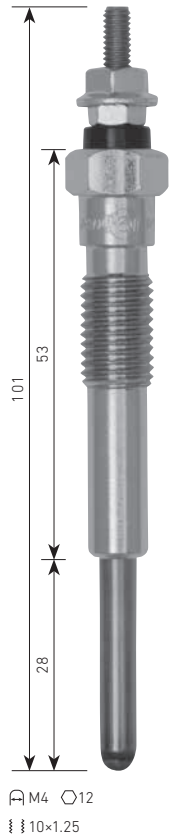
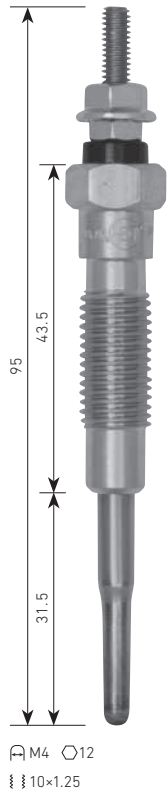
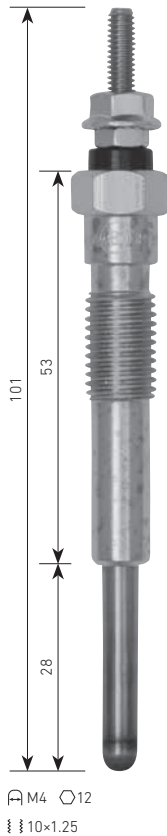
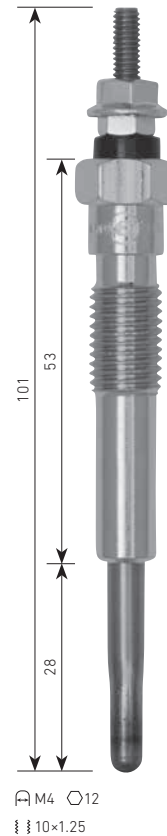
⚡22V

**PS-219****KUBOTA**

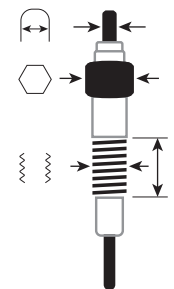
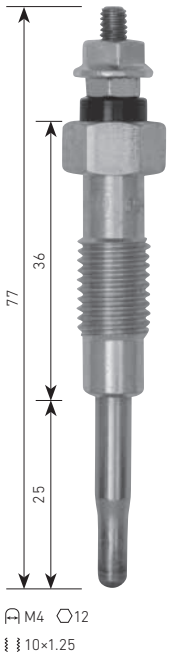
⚡12.5V

**PS-220****PERKINS**

⚡11V

**PT-100****TOYOTA**2B, 2J, B  
⚡8.5V**PT-101****TOYOTA**2B, 2J, B  
⚡20.5V**PT-103****TOYOTA**L  
⚡11V**PT-104****TOYOTA**2B, 2J, B  
⚡8.5V**PT-107****TOYOTA**1C, etc.  
⚡7V**PS-221****PERKINS**

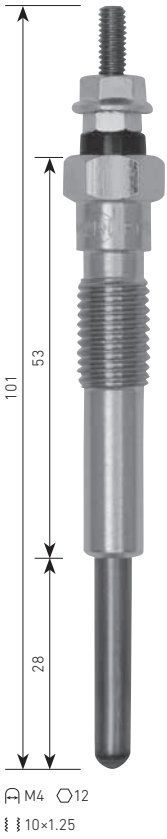
⚡11V



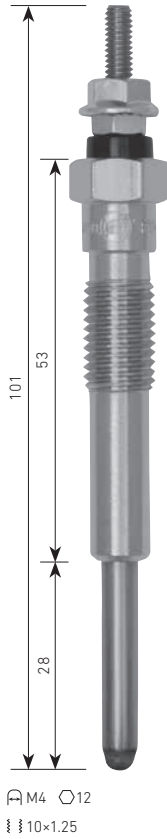
⚡ = VOLTAGE

(ACTUAL SIZE) (mm)

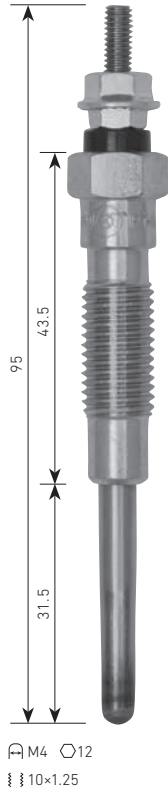
**PT-108**  
TOYOTA  
2B, 3B, 2J, B  
423V



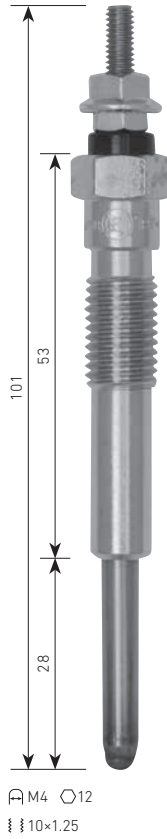
**PT-109**  
TOYOTA  
2B, 3B, 2J, B  
420.5V



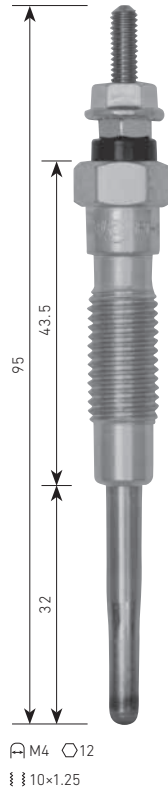
**PT-140**  
TOYOTA  
1N, 2J, 2L, L  
47V



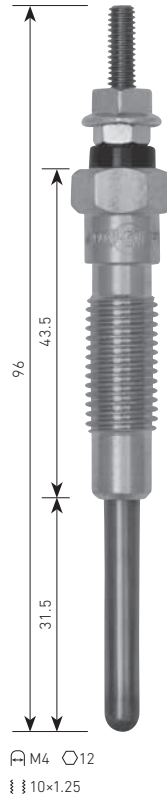
**PT-141**  
TOYOTA  
2B, 2H, 3B, H2H  
414V



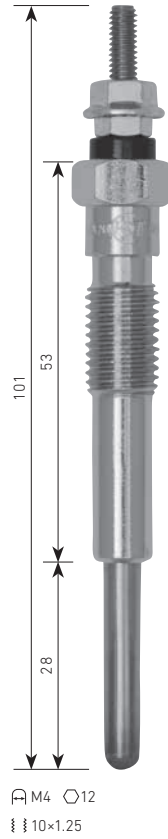
**PT-142**  
TOYOTA  
2J, 2L, L  
416V



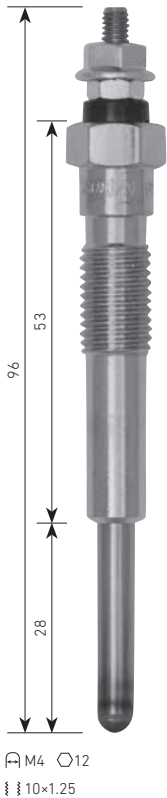
**PT-144**  
TOYOTA  
L  
411V



**PT-145**  
TOYOTA  
2B, 3B, 2J, B  
410.5V



**PT-146**  
TOYOTA  
2J  
46V

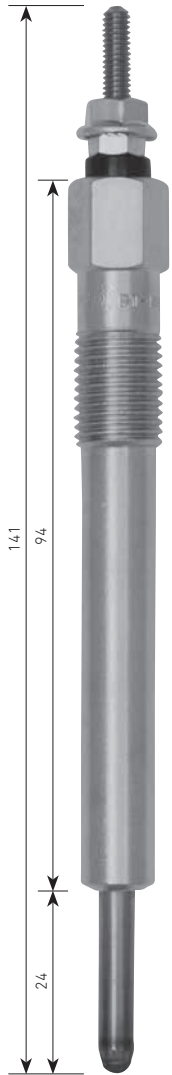


**PT-147**  
TOYOTA  
2L-T  
46V



**PT-148**

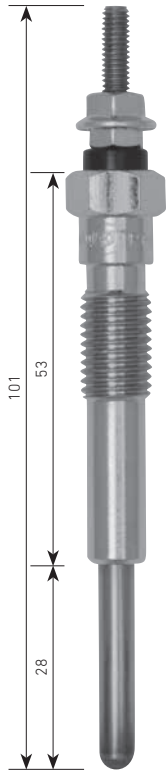
TOYOTA  
1W  
⚡14V



⌀ M4 ⌀12  
⋄ 12x1.25

**PT-150**

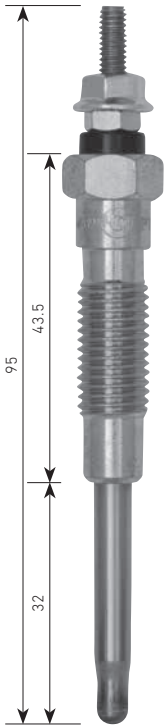
TOYOTA  
1C, 2C  
⚡11V



⌀ M4 ⌀12  
⋄ 10x1.25

**PT-151**

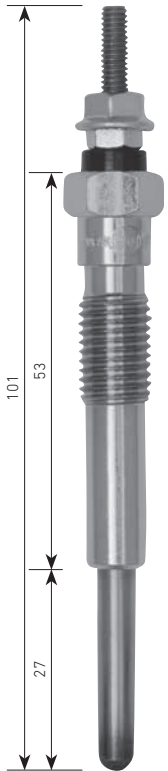
TOYOTA  
1N, 2L, 3L  
⚡11V



⌀ M4 ⌀12  
⋄ 10x1.25

**PT-152**

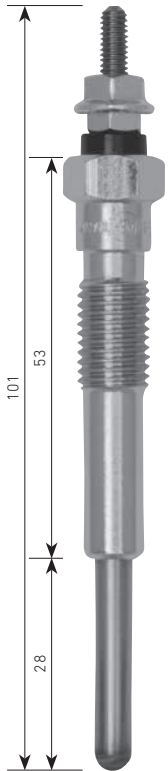
TOYOTA  
1HDT, 1HZ  
⚡11V



⌀ M4 ⌀12  
⋄ 10x1.25

**PT-153**

TOYOTA  
12HT, etc.  
⚡23V



⌀ M4 ⌀12  
⋄ 10x1.25

**PT-154**

TOYOTA  
1C, etc.  
⚡11V



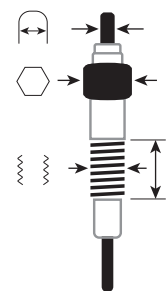
⌀ M4 ⌀12  
⋄ 10x1.25

**PT-155**

TOYOTA  
1N, etc.  
⚡11V



⌀ M4 ⌀12  
⋄ 10x1.25



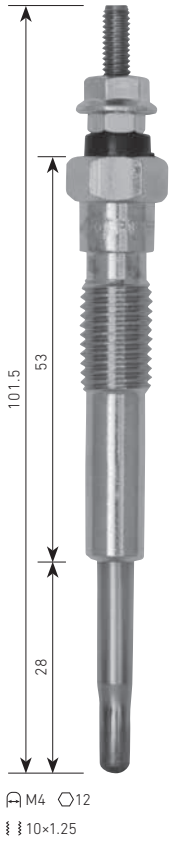
⚡ = VOLTAGE

(ACTUAL SIZE) (mm)

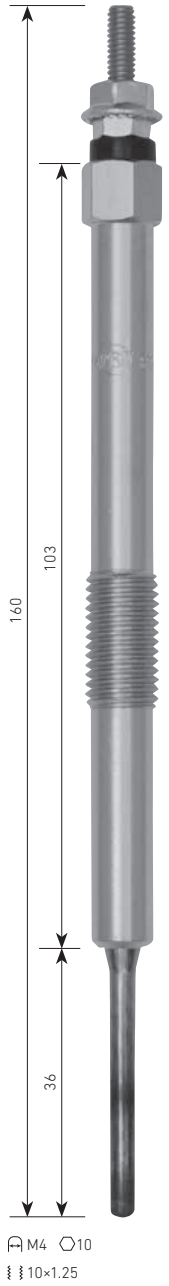
**PT-157**  
TOYOTA  
1CD-FTV, etc.  
⚡11V



**PT-158**  
TOYOTA  
1HZ  
⚡11V



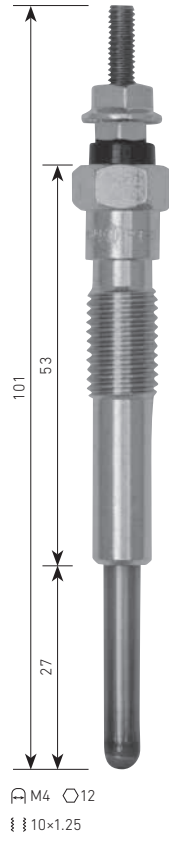
**PT-159**  
TOYOTA  
1ND-TV  
⚡11V



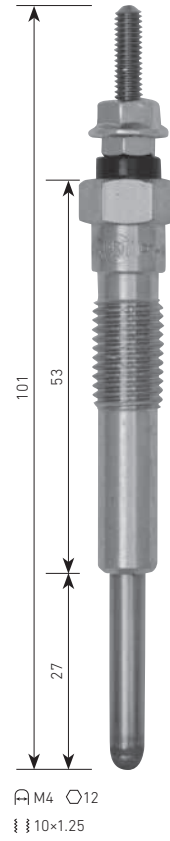
**PT-500**  
TOYOTA  
2AD-FHV  
⚡11V



**PT-93**  
TOYOTA  
B, 2J  
⚡8V



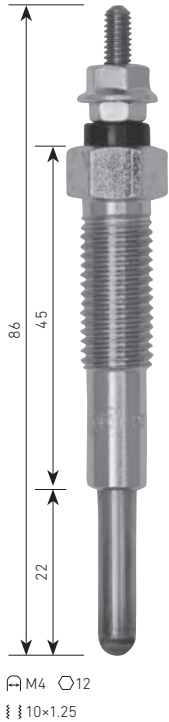
**PT-94**  
TOYOTA  
B, 2J  
⚡19V



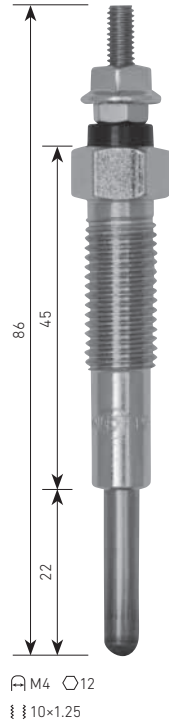
**PZ-30**  
MAZDA  
S2  
⚡8.5V



**PZ-31**  
MAZDA  
HA, XA, ZB  
⚡23V



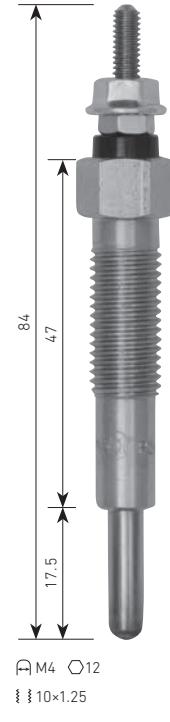
**PZ-33**  
MAZDA  
R2, RF, XA  
⚡10.5V



**PZ-35**  
MAZDA  
RF, S2  
⚡12V



**PZ-36**  
MAZDA  
RS, VS  
⚡11V



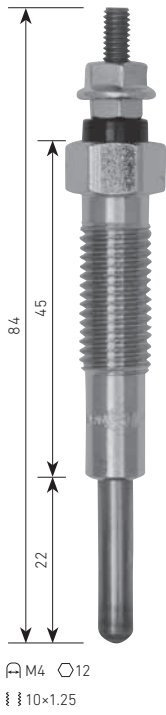


**PZ-37**

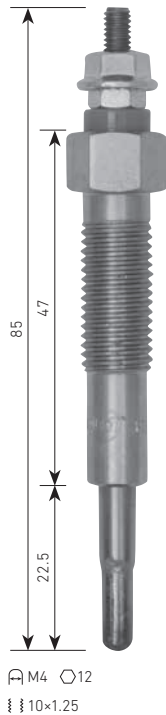
MAZDA  
R2, RF T  
⚡12V

**PZ-38**

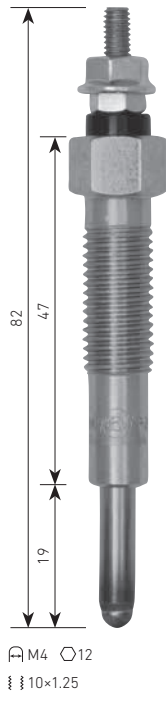
MAZDA  
RF  
⚡11V

**PZ-39**

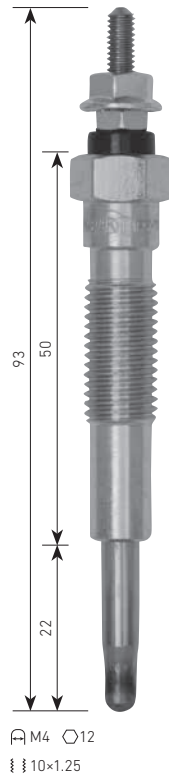
MAZDA  
WL-T, etc.  
⚡11V

**PZ-701**

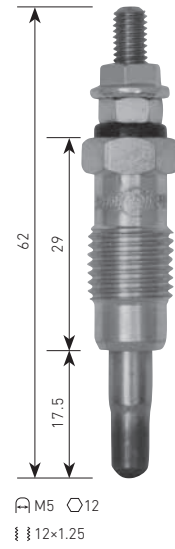
MAZDA  
HA, VS  
⚡24V

**PZ-702**

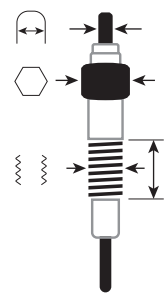
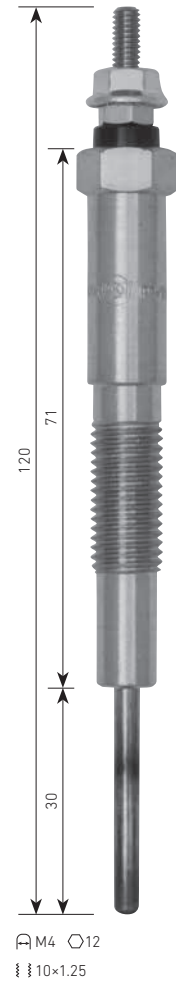
MAZDA  
RF, VS, WL  
⚡11V

**PZ-703**

MAZDA  
1.8L DiTD  
⚡11.5V

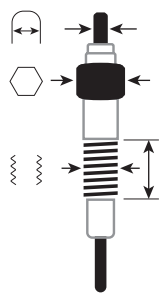
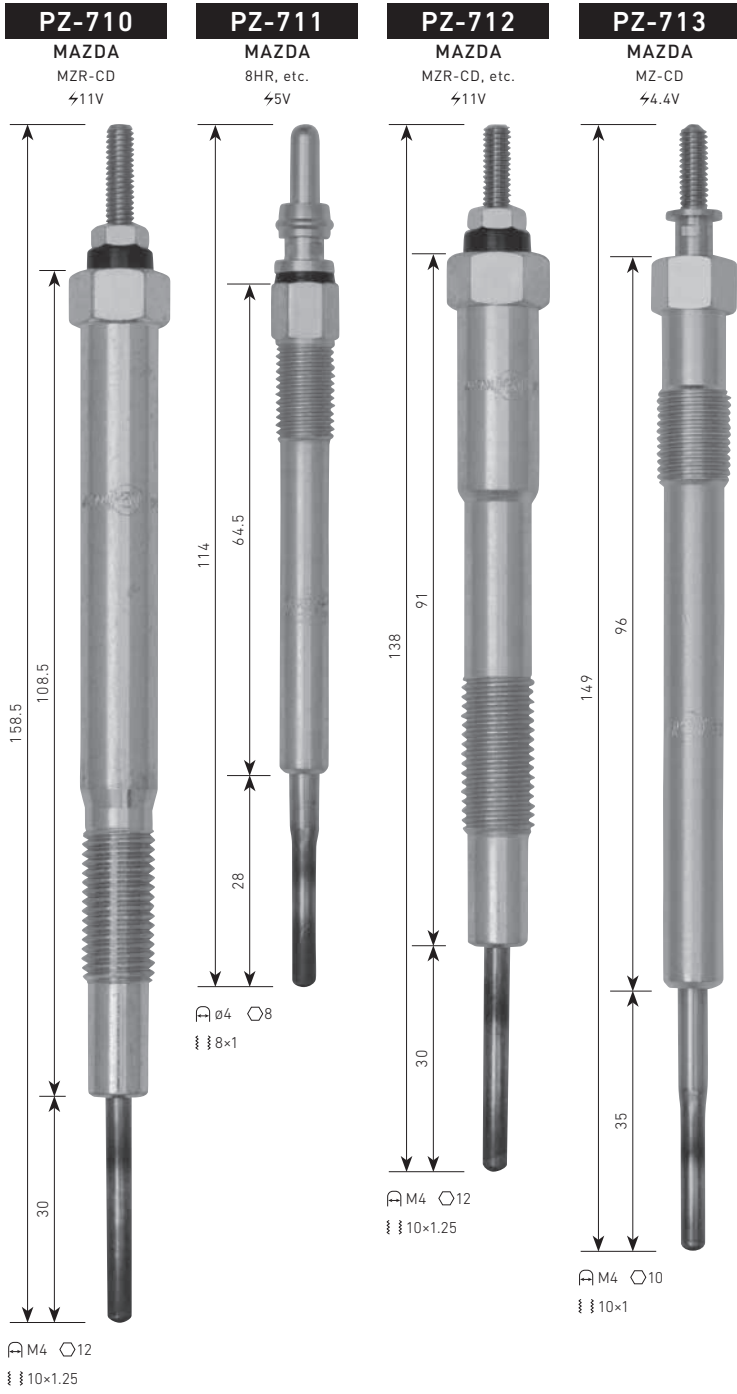
**PZ-704**

MAZDA  
RF1G, etc.  
⚡11V



⚡ = VOLTAGE

(ACTUAL SIZE) (mm)



⚡ = VOLTAGE

# APPLICATION TABLES

ENGINE		MODEL		M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>ALFA ROMEO</b>										
<b>33</b>										
VM 82 A, VM 96 A	1.8 TD	01/86	06/90	<b>B-049</b>				3	11V	12V
VM 96 A	1.8 TD	07/90	09/94	<b>B-049</b>				3	11V	12V
<b>75</b>										
VM 80 A	2.0 TD	05/85	09/92	<b>B-049</b>				4	11V	12V
VM 81 A	2.4 TD	01/89	02/92	<b>B-049</b>				4	11V	12V
<b>90</b>										
VM 81 A	2.4 TD	10/84	07/87	<b>B-049</b>				4	11V	12V
<b>145 / 146</b>										
AR 32302	1.9 JTD	02/99	01/01	<b>B-108</b> <b>B-109</b>				4	11V	12V
AR 33601, AR 67501	1.9 TD	10/94	02/99	<b>B-081</b>				4	11V	12V
<b>147</b>										
182 B9.000, 937 A2.000	1.9 JTD 8V	04/01	03/10	<b>B-109</b>				4	11V	12V
192 A5.000, 192 B1.000, 937 A4.000	1.9 JTD 16V	11/02	03/10	<b>B-125</b>				4	11V	12V
937 A5.000	1.9 JTDM 16V	09/04	03/10	<b>B-125</b>				4	11V	12V
939 A7.000	1.9 JTDM 8V	10/04	09/05	<b>B-109</b>				4	11V	12V
<b>155</b>										
AR 67501	1.9 TD	04/93	12/97	<b>B-081</b>				4	11V	12V
VM 07 B, VM 31 B	2.5 TD	04/93	04/95	<b>B-081</b>				4	11V	12V
		05/95	12/97	<b>B-086</b>				4	11V	12V
<b>156</b>										
192 A5.000	1.9 JTD 16V	11/02	05/06	<b>B-125</b>				4	11V	12V
192 B1.000, 937 A4.000, 937 A5.000	1.9 JTD	11/02	05/06	<b>B-125</b>				4	11V	12V
839 A6.000, 841 C000, 841 G.000, AR 32501	2.4 JTD	11/99	05/06	<b>B-109</b>				5	11V	12V
841 M.000, 841 N.000	2.4 JTD	06/03	05/06	<b>B-125</b>				4	11V	12V
937 A2.000, AR 37101	1.9 JTD	10/00	05/06	<b>B-109</b>				4	11V	12V
937 A5.000	1.9 JTD 16V Q4	07/04	05/06	<b>B-125</b>				4	11V	12V
AR 32302	1.9 JTD	09/97	10/00	<b>B-108</b>				4	11V	12V
AR 32501	2.4 JTD	09/97	09/03	<b>B-108</b>				5	11V	12V
<b>159</b>										
844 A2.000, 939 B3.000, 939 B4.000	2.0 JTDM	05/09	11/11	<b>B-135</b>				4	4.4V	12V
937 A7.000, 939 A1.000	1.9 JTDM 8V	02/08	06/10	<b>B-125</b>				4	11V	12V
		09/05	02/08	<b>B-108</b>				4	11V	12V
937 A7.000, 939 A7.000	1.9 JTDM 8V (939AXE1B, 939BXE1B, 939BXH1B)	02/08	06/10	<b>B-125</b>				4	11V	12V
937 A8.000, 939 A2.000	1.9 JTDM 16V	09/05	06/10	<b>B-125</b>				4	11V	12V
939 A1.000	1.9 JTDM 8V	02/08	06/10	<b>B-125</b>				4	11V	12V
939 A2.000	1.9 JTDM 16V	09/05	11/11	<b>B-125</b>				4	11V	12V
939 A3.000	2.4 JTDM	09/05	11/11	<b>B-125</b>				5	11V	12V
939 A7.000	1.9 JTDM 8V (939AXE1B, 939BXE1B, 939BXH1B)	09/05	02/08	<b>B-108</b>				4	11V	12V
939 A9.000	2.4 JTDM Q4	05/07	11/11	<b>B-125</b>				5	11V	12V
<b>164</b>										
VM 08 B, VM 32 B	2.5 TD	05/95	09/98	<b>B-086</b>				4	11V	12V
		09/92	04/95	<b>B-081</b>				4	11V	12V
VM 84 A	2.5 TD	06/87	09/92	<b>B-049</b>				4	11V	12V
<b>166</b>										
839 A6.000, 841 C000	2.4 JTD	10/00	06/07	<b>B-109</b>				5	11V	12V
841 G.000, 841 H.000	2.4 JTD	10/03	06/07	<b>B-125</b>				5	11V	12V
841 M.000, 841 N.000, 936 B.000	2.4 JTD	10/03	06/07	<b>B-125</b>				4	11V	12V
AR 34202	2.4 JTD	09/98	10/00	<b>B-108</b>				5	11V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## ALFA ROMEO

### ALFETTA

VM4HT 2.4	2.4 TD	04/83	12/84	<b>B-049</b>		4	11V	12V
VM4HT/2	2.0 TD	10/79	03/83	<b>B-049</b>		4	11V	12V

### AR 6

160 D100	1.9 D	04/85	12/89	<b>B-081</b>		4	11V	12V
8144.67.220	2.5 D	03/86	12/89	<b>B-081</b>		4	11V	12V
VM-HR 588 HT	2.5 TD	07/81	05/86	<b>B-049</b>		5	11V	12V

### AR 8

8140.61.200	2.4 D	04/78	08/86	<b>B-081</b>		4	11V	12V
8144.67.220	2.5 D	09/86	12/89	<b>B-081</b>		4	11V	12V

### BRERA

844 A2.000, 939 B3.000	2.0 JTDM	03/08	06/10	<b>B-135</b>		4	4.4V	12V
939 A3.000	2.4 JTDM 20V	01/06	06/10	<b>B-125</b>		5	11V	12V

### GIULIETTA

940 A3.000	1.6 JTDM	04/10		<b>B-135</b>		4	4.4V	12V
940 A4.000, 940 B4.000	2.0 JTDM (940FXE1A)	04/10		<b>B-135</b>		4	4.4V	12V
940 A5.000, 940 B4.000, 940 B5.000, 940 C3.000	2.0 JTDM	04/10		<b>B-135</b>		4	4.4V	12V
940 A7.000, 940 B9.000	2.0 JTDM (940FXH1A, 940FXH11, 940FXZ11, 940FXZ1A)	04/10		<b>B-135</b>		4	4.4V	12V
940 A8.000, 940 B6.000, 940 C4.000	2.0 JTDM (940FXM1A, 940FXS1A, 940FYD1A)	04/10	02/16	<b>B-135</b>		4	4.4V	12V
VM 4 HT	2.0 TD	01/83	12/85	<b>B-049</b>		4	11V	12V

### GT

937 A5.000	1.9 JTD	11/03	09/10	<b>B-125</b>		4	11V	12V
937 A6.000	1.9 JTD	05/08	01/10	<b>B-125</b>		4	11V	12V

### MITO

198 A2.000, 955 A3.000, 955 A4.000	1.6 JTDM	08/08		<b>B-135</b>		4	4.4V	12V
199 A3.000, 199 B1.000, 199 B8.000, 330 A1.000, 955 B2.000	1.3 D Multijet	08/08		<b>B-122</b>	55200755	4	11V	12V

### SPIDER

844 A2.000	2.0 JTDM (939DXQ1B)	04/09	03/11	<b>B-135</b>		4	4.4V	12V
939 A3.000	2.4 JTDM	04/07	06/10	<b>B-125</b>		5	11V	12V
939 B3.000	2.0 JTDM (939DXP1B, 939EXP1B)	05/09	06/10	<b>B-135</b>		4	4.4V	12V

## ALPINA

### D10

M57 D30 (306DE1)	E39, 3.0 D Bi-Turbo	04/00	10/03	<b>B-104</b>		6	11V	12V
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## ARO

### 10

F8M 700	1.6 D	09/86	10/99	<b>B-081</b>		4	11V	12V
F8QA6	1.9 D	09/92	10/06	<b>B-081</b>		4	11V	12V
F8QT	1.9 TD	06/97	10/06	<b>B-080</b>		4	11V	12V

### 240-244

Aro L-27D	2.7 D	01/83	12/98	<b>B-081</b>		4	11V	12V
VM-425HLT, XD3TP	2.5 TD	01/92	12/06	<b>B-081</b>		4	11V	12V
XD3P	2.5 D	01/83	12/98	<b>B-081</b>		4	11V	12V

## ASIA MOTORS

### HI-TOPIC

SS	2.7 D RWD	10/96	12/99	<b>CP-03</b>		4	11V	12V
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### ROCSTA

R2	2.2 D 4x4	06/93	12/99	<b>PZ-33</b>		4	10.5V	12V
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ENGINE	MODEL	M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>AUDI</b>								
<b>80</b>								
1Y	89, 8A, B3, 1.9 D	08/89	08/91	<b>B-080</b>		4	11V	12V
1Z	8C, B4, 1.9 TDI	09/91	01/96	<b>B-077</b>		4	11V	12V
AAZ	8C, B4, 1.9 TD	09/91	12/94	<b>B-080</b>		4	11V	12V
CR, JK	81, 85, B2, 1.6 D	08/80	08/86	<b>B-080</b>		4	11V	12V
CY	81, 85, B2, 1.6 TD	08/81	05/86	<b>B-080</b>		4	11V	12V
JK	89, 8A, B3, 1.6 D	02/87	07/89	<b>B-080</b>		4	11V	12V
RA, SB	89, 8A, B3, 1.6 TD	09/86	08/91	<b>B-080</b>		4	11V	12V
<b>90</b>								
CY	81, 85, B2, 1.6 TD	10/85	01/87	<b>B-080</b>		4	11V	12V
RA, SB	89, 8A, B3, 1.6 TD	04/87	09/91	<b>B-080</b>		4	11V	12V
<b>100</b>								
1T	44, C3, 2.5 TDI	01/90	11/90	<b>B-077</b>		5	11V	12V
3D	44, C3, 2.4 D	08/89	07/91	<b>B-080</b>		5	11V	12V
AAS	4A, C4, 2.4 D	12/90	07/94	<b>B-080</b>		5	11V	12V
AAT, ABP	4A, C4, 2.5 TDi	12/90	07/94	<b>B-077</b>		5	11V	12V
CN	43, C2, 2.0 D	08/78	02/83	<b>B-080</b>		5	11V	12V
	44, C3, 2.0 D	08/82	11/90	<b>B-080</b>		5	11V	12V
DE, NC	44, C3, 2.0 D Turbo	08/82	11/90	<b>B-080</b>		5	11V	12V
	44, C3, 2.0 TD	03/83	11/90	<b>B-080</b>		5	11V	12V
<b>A1</b>								
CAYB, CAYC	8X, 1.6 TDI	05/10	04/15	<b>B-132</b>		4	4.4V	12V
CFHB, CFHD	8X, 2.0 TDI	09/11	04/15	<b>B-132</b>		4	4.4V	12V
CUSB	8X, 1.4 TDI	11/14	10/18	<b>B-132</b>		2	4.4V	12V
CXMA	8X, 1.6 TDI	11/14	10/18	<b>B-132</b>		3	4.4V	12V
<b>A2</b>								
AMF, BHC	8Z, 1.4 TDI	02/00	08/05	<b>B-086</b>		3	11V	12V
ANY	8Z, 1.2 TDI	03/01	08/05	<b>B-086</b>		3	11V	12V
<b>A3</b>								
AGR, AHF, ALH, ASV	8L, 1.9 TDI	09/96	07/01	<b>B-077</b>		4	11V	12V
		09/96	07/01	<b>B-092</b>		3	11V	12V
ASZ	8L, 1.9 TDI quattro	08/00	10/01	<b>B-077</b>		4	11V	12V
		11/01	05/03	<b>B-086</b>		4	11V	12V
ASZ, ATD	8L, 1.9 TDI	08/00	10/01	<b>B-077</b>		4	11V	12V
		11/01	05/03	<b>B-086</b>		4	11V	12V
AXR	8L, 1.9 TDI	10/00	05/03	<b>B-086</b>		4	11V	12V
AZV, BKD	8P, 2.0 TDI	05/03	03/13	<b>PM-405</b>		4	4.4V	12V
		05/03	03/13	<b>PM-405</b>		4	4.4V	12V
BMN	8P, 2.0 TDI quattro	03/06	03/13	<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)	4	7V	12V
BMN, BUY	8P, 2.0 TDI	03/06	03/13	<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)	4	7V	12V
CAYB, CAYC	8P, 1.6 TDI	05/09	03/13	<b>B-132</b>		4	4.4V	12V
CBAA, CBAB, CBBB, CFFA, CFFB, CFFB, CFFB, CLJA	8P, 2.0 TDI	05/03	03/13	<b>B-132</b>		4	4.4V	12V
CBAB, CBBB, CFFB, CFFB	8P, 2.0 TDI quattro	08/04	03/13	<b>B-132</b>		4	4.4V	12V
CLHA, CRKB, CXXB, DBKA	8V, 1.6 TDI	10/12		<b>B-132</b>		3	4.4V	12V
CRBC, CRBD, CRFA, CRFC, CRLB, CRLC, CRUA, CUNA, DBGA, DCYA, DEJA, DEJB, DFGA	8V, 2.0 TDI	04/12		<b>B-132</b>		3	4.4V	12V
CRBC, CRLB, CUNA, DGCA	8V, 2.0 TDI quattro	10/12		<b>B-132</b>		3	4.4V	12V
CXXB	8V, 1.6 TDI quattro	05/15		<b>B-132</b>		3	4.4V	12V
<b>A3 Convertible</b>								
CAYC	8P7, 1.6 TDI	05/09	05/13	<b>B-132</b>		4	4.4V	12V
CBAA, CBAB, CFFA, CFFB	8P7, 2.0 TDI	04/08	05/13	<b>B-132</b>		4	4.4V	12V
CRKB, CXXB	8V7, 1.6 TDI	02/14		<b>B-132</b>		3	4.4V	12V
CRLB, CRLC, CUNA	8V7, 2.0 TDI	10/13		<b>B-132</b>		3	4.4V	12V
CRLB, CUNA	8V7, 2.0 TDI quattro	03/14		<b>B-132</b>		3	4.4V	12V





ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.












B.V.

## AUDI

## A4

1Z, AFF, AFN, AHH, AHU, AJM, AVG	8D, B5, 1.9 TDI	01/95	09/01	<b>B-077</b>		4	11V	12V	
AFB, AKN	8D, B5, 2.5 TDI	09/97	09/01	<b>B-111</b>		6	11V	12V	
	8D, B5, 2.5 TDI quattro	09/97	09/01	<b>B-111</b>		6	11V	12V	
AFF, AFN, AHH, AHU, AVG	8D, B5, 1.9 TDI	01/95	09/01	<b>B-080</b>		3	11V	12V	
AFN, AJM, ATJ, AVG	8D, B5, 1.9 TDI quattro	09/96	09/01	<b>B-077</b>		4	11V	12V	
AFN, AVG	8D, B5, 1.9 TDI quattro	09/96	09/01	<b>B-080</b>		3	11V	12V	
AHU	8D, B5, 1.9 DUO	03/98	09/01	<b>B-077</b>		4	11V	12V	
		03/98	09/01	<b>B-080</b>		3	11V	12V	
AJM	8D, B5, 1.9 TDI	03/00	09/01	<b>B-092</b>		3	11V	12V	
AJM, ATJ	8D, B5, 1.9 TDI quattro	03/00	09/01	<b>B-092</b>		3	11V	12V	
AKE	8E, B6, 2.5 D	10/00	05/03	<b>B-111</b>		6	11V	12V	
AKE, BAU, BDH	8E, B6, 2.5 TDI quattro	11/00	12/04	<b>B-111</b>		6	11V	12V	
ASB, BKN	8E, B7, 3.0 TDI quattro	11/04	06/08	<b>B-132</b>		6	4.4V	12V	
AVB	8E, B6, 1.9 TDI	11/01	12/04	<b>B-086</b>		4	11V	12V	
AVB, AVF, AWX	8E, B6, 1.9 TDI	11/00	10/01	<b>B-077</b>		4	11V	12V	
		11/01	12/04	<b>B-086</b>		4	11V	12V	
AVF	8E, B6, 1.9 TDI quattro	11/01	12/04	<b>B-086</b>		4	11V	12V	
AYM, BCZ, BDG, BFC	8E, B6, 2.5 TDI	08/01	12/04	<b>B-111</b>		6	11V	12V	
BDG	8E, B7, 2.5 TDI	11/04	05/06	<b>B-111</b>		6	11V	12V	
BLB, BNA	8E, B7, 2.0 TDI	11/04	06/08	<b>PM-405</b>		4	4.4V	12V	
BPP, BSG	8E, B7, 2.7 Tdi	11/05	06/08	<b>B-132</b>		6	4.4V	12V	
BRD, BRE, BRF, BVA, BVF, BVG	8E, B7, 2.0 TDI	11/04	06/08	<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)	4	7V	12V	
		06/06	06/08	<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)	4	7V	12V	
CAGA, CAGB, CAGC, CAHA, CAHB, CGLC, CGLD, CJCA, CJCB, CJCC, CJCD, CMEA, CMFA, CMGB, CNHC	8K, B8, 2.0 TDI	11/07	12/15	<b>B-132</b>		4	4.4V	12V	
CAGA, CAHA, CGLC, CJCA, CJCD	8K, B8, 2.0 TDI quattro	01/08	12/15	<b>B-132</b>		4	4.4V	12V	
CAHB, CGLD, CMEA, CMFA, CMFB, CNHA, CNHC, CSUA, CSUB	8K, B8, 2.0 TDI	11/07	12/15	<b>B-132</b>		3	4.4V	12V	
CAMA, CAMB, CGKA, CGKB	8K, B8, 2.7 TDI	11/07	03/12	<b>B-132</b>		6	4.4V	12V	
CAPA, CCWA, CCWB, CDUC	8K, B8, 3.0 TDI quattro	11/07	12/15	<b>B-132</b>		6	4.4V	12V	
CCLA, CKVB, CKVC	8K, B8, 3.0 TDI quattro	11/07	12/15	<b>B-132</b>		4	4.4V	12V	
CLAB	8K, B8, 3.0 TDI	11/11	12/15	<b>B-132</b>		6	4.4V	12V	
CNHA, CSUA	8K, B8, 2.0 TDI quattro	05/13	12/15	<b>B-132</b>		3	4.4V	12V	
CRTC	8W, B9, 3.0 TDI quattro	05/15	08/18	<b>B-132</b>		4	4.4V	12V	
CSWB	8W, B9, 3.0 TDI	09/15		<b>B-132</b>		6	4.4V	12V	
	8W, B9, 3.0 TDI quattro	09/15		<b>B-132</b>		6	4.4V	12V	
CZHA, DESA, DETA, DEUA, DEUB, DEUC, DFVA	8W, B9, 2.0 TDI	05/15		<b>B-132</b>		3	4.4V	12V	
DESA, DETA, DFVA	8W, B9, 2.0 TDI quattro	09/15		<b>B-132</b>		3	4.4V	12V	
<b>A4 Allroad</b>									
CAGA, CAGB, CAHA, CAHB, CGLC, CGLD, CJCA, CJCB, CJCD, CNHC	8KH, 2.0 TDI quattro	04/09	05/16	<b>B-132</b>		4	4.4V	12V	
CAHB, CGLD, CNHA, CNHC, CSUA, CSUB	8KH, 2.0 TDI quattro	04/09	05/16	<b>B-132</b>		3	4.4V	12V	
CCWA, CDUC	8KH, 3.0 TDI quattro	04/09	05/16	<b>B-132</b>		6	4.4V	12V	

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.	
<b>AUDI</b>									
<b>A4 Allroad</b>									
CKVB, CKVC	8KH, 3.0 TDI quattro	01/12	05/16	<b>B-132</b>		5	4.4V	12V	
CRTC	8WH, 3.0 TDI quattro	01/16	08/18	<b>B-132</b>		4	4.4V	12V	
CSWB	8WH, 3.0 TDI quattro	01/16		<b>B-132</b>		6	4.4V	12V	
DESA, DETA, DETB, DFVA	8WH, 2.0 TDI quattro	01/16		<b>B-132</b>		3	4.4V	12V	
<b>A4 Convertible</b>									
ASB, BKN	8H, B6, B7, 3.0 TDI quattro	01/06	03/09	<b>B-132</b>		6	4.4V	12V	
BCZ, BDG, BFC	8H, B6, B7, 2.5 TDI	08/02	12/05	<b>B-111</b>		6	11V	12V	
BPP	8H, B6, B7, 2.7 TDI	06/06	03/09	<b>B-132</b>		6	4.4V	12V	
<b>A5</b>									
CAGA, CAGB, CAHA, CAHB, CGLC, CGLD, CJCA, CJCB, CMEA, CMFA, CNHC, CSUB	8T, 8F, 2.0 TDI	08/08	01/17	<b>B-132</b>		4	4.4V	12V	
CAHA, CGLC	8T, 8F, 2.0 TDI quattro	08/08	01/17	<b>B-132</b>		4	4.4V	12V	
CAMA, CAMB, CGKA, CGKB	8T, 8F, 2.7 TDI	06/07	01/17	<b>B-132</b>		6	4.4V	12V	
CAPA, CCWA, CCWB, CDUC	8T, 8F, 3.0 TDI quattro	06/07	01/17	<b>B-132</b>		6	4.4V	12V	
CJCD, CMEA, CMFA, CMFB, CNHA, CSUA	8T, 8F, 2.0 TDI	09/09	01/17	<b>B-132</b>		3	4.4V	12V	
CKVB, CKVC, CKVD	8T, 8F, 3.0 TDI quattro	10/11	01/17	<b>B-132</b>		5	4.4V	12V	
CLAB	8T, 8F, 3.0 TDI	10/11	01/17	<b>B-132</b>		6	4.4V	12V	
CNHA	8T, 8F, 2.0 TDI quattro	09/13	01/17	<b>B-132</b>		3	4.4V	12V	
CSWB	F5, 3.0 TDI quattro	07/16		<b>B-132</b>		6	4.4V	12V	
DESA, DETA	F5, 2.0 TDI	07/16		<b>B-132</b>		3	4.4V	12V	
<b>A6</b>									
1Z, AHU	4A, C4, 1.9 TDI	06/94	12/97	<b>B-077</b>		4	11V	12V	
AAT, AEL	4A, C4, 2.5 TDI	06/94	12/97	<b>B-077</b>		5	11V	12V	
AEL	4A, C4, 2.5 TDI quattro	07/95	12/97	<b>B-077</b>		5	11V	12V	
AFB, AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC, BND	4B, C5, 2.5 TDI	07/97	01/05	<b>B-111</b>		6	11V	12V	
AFB, AKE, AKN, BAU, BDH	4B, C5, 2.5 TDI quattro	07/97	01/05	<b>B-111</b>		6	11V	12V	
AFN, AVG	4B, C5, 1.9 TDI	04/97	04/01	<b>B-077</b>		4	11V	12V	
AJM, AVF, AWX	4B, C5, 1.9 TDI	07/00	01/05	<b>B-086</b>		4	11V	12V	
ASB, BMK, BNG, CDYA, CDYB, CDYC	4F, C6, 3.0 TDI quattro	05/04	08/11	<b>B-132</b>		6	4.4V	12V	
BLB, BNA	4F, C6, 2.0 TDI	07/04	08/11	<b>PM-405</b>		4	4.4V	12V	
BPP, BSG, CANA, CANB	4F, C6, 2.7 TDI	11/04	08/11	<b>B-132</b>		6	4.4V	12V	
BPP, BSG, CANC, CAND	4F, C6, 2.7 TDI quattro	11/04	08/11	<b>B-132</b>		6	4.4V	12V	
BRE, BRF, BVG	4F, C6, 2.0 TDI	07/04	08/11	<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)	4	7V	12V	
CAGB, CAHA, CAHB	4F, C6, 2.0 TDI	07/04	08/11	<b>B-132</b>		4	4.4V	12V	
CDUC, CDUD, CGQB, CLAA, CVUB	4G, C7, 3.0 TDI quattro	03/11	09/18	<b>B-132</b>		6	4.4V	12V	
CGLC, CGLD, CGLE, CMGB	4G, C7, 2.0 TDI	03/11	09/18	<b>B-132</b>		4	4.4V	12V	
CKVB, CKVC, CRTD, CRTE, CRTF, CVUA, CZVA, CZVC	4G, C7, 3.0 TDI quattro	03/11	09/18	<b>B-132</b>		4	4.4V	12V	
CLAB, CTCB, CTCC	4G, C7, 3.0 TDI	11/10	09/18	<b>B-132</b>		6	4.4V	12V	
CNHA, CSUD, CSUE, CZJA, DDCB, DDDA	4G, C7, 2.0 TDI	01/12	09/18	<b>B-132</b>		3	4.4V	12V	
CNHA, DDDA	4G, C7, 2.0 TDI quattro	04/15	09/18	<b>B-132</b>		3	4.4V	12V	
CZVB, CZVD	4G, C7, 3.0 TDI	09/14	09/18	<b>B-132</b>		5	4.4V	12V	



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**AUDI****A6 Allroad**

ASB, BNG, CDYA, CDYB, CDYC	4FH, 3.0 TDI quattro	05/06	08/11	<b>B-132</b>		6	4.4V	12V
BPP, BSG, CANC, CAND	4FH, 2.7 TDI quattro	05/06	08/11	<b>B-132</b>		6	4.4V	12V
CDUC, CGQB, CLAA	4GH, 3.0 TDI quattro	01/12	06/16	<b>B-132</b>		6	4.4V	12V
CKVC, CRTD, CRTE, CRTF, CVUA, CZVA, CZVC, CZVF	4GH, 3.0 TDI quattro	01/12	09/18	<b>B-132</b>		5	4.4V	12V

**A7**

CDUC, CDUD, CGQB, CLAA, CTCB, CVUB	4GA, 3.0 TDI quattro	10/10	05/18	<b>B-132</b>		6	4.4V	12V
CKVB, CKVC, CPNB, CRTD, CRTE, CRTF, CVUA, CZVA, CZVF	4GA, 3.0 TDI quattro	10/10	05/18	<b>B-132</b>		5	4.4V	12V
CLAB, CTCC, CZVB	4GA, 3.0 TDI	11/10	05/18	<b>B-132</b>		6	4.4V	12V
CZVD, CZVE	4GA, 3.0 TDI	11/15	05/18	<b>B-132</b>		5	4.4V	12V

**A8**

AFB, AKE, AKN	4D, 2.5 TDI	01/97	09/02	<b>B-111</b>		6	11V	12V
	4D, 2.5 TDI quattro	07/97	09/02	<b>B-111</b>		6	11V	12V
AKF	4D, 3.3 TDI quattro	06/00	09/02	<b>B-111</b>		8	11V	12V
ASB, BNG	4E, 3.0 TDI quattro	08/03	07/10	<b>B-132</b>		6	4.4V	12V
ASE	4E, 4.0 TDI quattro	05/03	07/05	<b>B-111</b>		8	11V	12V
BMC, BVN	4E, 4.2 TDI quattro	01/05	07/10	<b>B-132</b>		8	4.4V	12V
CDSB, CTEC	4H, 4.2 TDI quattro	11/09	01/18	<b>B-132</b>		8	4.4V	12V
CDTA, CDTB, CDTC, CTBA, CTBB, CTBD	4H, 3.0 TDI quattro	07/10	01/18	<b>B-132</b>		6	4.4V	12V
CLAB	4H, 3.0 TDI	09/11	09/13	<b>B-132</b>		6	4.4V	12V
CMHA, CPNA	4H, 3.0 TDI quattro	07/10	01/18	<b>B-132</b>		5	4.4V	12V

**ALLROAD**

AKE, BAU, BCZ	4BH, 2.5 TDI quattro	05/00	08/05	<b>B-111</b>		6	11V	12V
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**CABRIOLET**

1Z, AHU	8G7, 1.9 TDI	06/95	08/00	<b>B-077</b>		4	11V	12V
		06/95	08/00	<b>B-080</b>		3	11V	12V

**Q3**

CFFA, CFFB, CLJA, CUVB, DFTB	8U, 2.0 TDI	09/11	10/18	<b>B-132</b>		4	4.4V	12V
CFFB, CFGD, CLLB	8U, 2.0 TDI quattro	06/11	10/18	<b>B-132</b>		4	4.4V	12V
CFGC, CLLB, CUVC, CUWA, CYLA, DFTA, DFUA	8U, 2.0 TDI quattro	06/11	10/18	<b>B-132</b>		3	4.4V	12V
CFGC, CUVC, CUVD, CUWA, DBBA, DFTA, DFTC, DFUA	8U, 2.0 TDI	06/11	10/18	<b>B-132</b>		3	4.4V	12V

**Q5**

CAGA, CAGB, CAHA, CAHB, CGLA, CGLB, CGLC, CGLD, CJCA, CJC, CJCD, CMGA, CMGB, CNHC	8R, 2.0 TDI quattro	11/08		<b>B-132</b>		4	4.4V	12V
CAHB, CGLA, CGLD, CNHA, CNHC, CSUA, CSUB	8R, 2.0 TDI quattro	11/08		<b>B-132</b>		3	4.4V	12V
CCWA, CCWB, CDUD, CTBA, CTBC	8R, 3.0 TDI quattro	11/08		<b>B-132</b>		6	4.4V	12V
CGQB, CVUB, CVUC, DEHA	8R, 3.0 SQ5 TDI quattro	12/12		<b>B-132</b>		6	4.4V	12V
CJCA, CJC, CJCD	8R, 2.0 TDI	11/10		<b>B-132</b>		4	4.4V	12V

ENGINE		MODEL		M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>AUDI</b>										
<b>Q5</b>										
CNHA, CSUA, CSUB	8R, 2.0 TDI	11/10		<b>B-132</b>				3	4.4V	12V
CPNB	8R, 3.0 TDI quattro	11/08		<b>B-132</b>				5	4.4V	12V
<b>Q7</b>										
BTR, CCFA, CCFC	4L, 4.2 TDI quattro	03/07	08/15	<b>B-132</b>				8	4.4V	12V
BUG, BUN, CASA, CASB, CJGC, CJMA, CRCA	4L, 3.0 TDI quattro	03/06	08/15	<b>B-132</b>				6	4.4V	12V
CASA, CCMA, CJGA, CJGD, CLZB, CNRB	4L, 3.0 TDI quattro	11/07	08/15	<b>B-132</b>				4	4.4V	12V
	4L, 3.0 TDI quattro	11/07	08/15	<b>B-132</b>				6	4.4V	12V
CATA	4L, 3.0 TDI quattro	06/09	05/12	<b>B-132</b>				4	4.4V	12V
CCGA	4L, 6.0 TDI quattro	09/08	05/14	<b>B-132</b>				12	4.4V	12V
CRTC, CRTE, CUEA, CVMD, CZZA, CZZB, DDEA	4M, 3.0 TDI quattro	05/15		<b>B-132</b>				4	4.4V	12V
CVZA	4M, 3.0 TDI e-tron quattro	08/15		<b>B-132</b>				4	4.4V	12V
CZAC	4M, 4.0 SQ7 TDI quattro	04/16		<b>B-132</b>				6	4.4V	12V
	4M, 4.0 SQ7 TDI quattro	04/16		<b>B-132</b>				8	4.4V	12V
	4L, 4.2 TDI	04/09	08/15	<b>B-132</b>				8	4.4V	12V
<b>TT</b>										
CBBB, CFGB	8J, 2.0 TDI quattro	06/08	06/14	<b>B-132</b>				4	4.4V	12V
CUNA	FV, 2.0 TDI	07/14		<b>B-132</b>				3	4.4V	12V

<b>BEDFORD</b>										
<b>BLITZ</b>										
20 DTr	2.0 D	10/80	10/83	<b>B-081</b>				4	11V	12V
21 D	2.1 D	09/81	10/87	<b>B-080</b>				4	11V	12V
23 D	2.3 D	01/73	10/87	<b>B-081</b>				4	11V	12V
<b>MIDI</b>										
4FD1	2.2 D 4WD	06/88	05/90	<b>PI-51</b>				4	5V	12V
	2.0 D	08/84	05/88	<b>B-081</b>				4	11V	12V

<b>BERTONE</b>										
<b>FREECLIMBER</b>										
BMW M 21 D 24	2.4 TD	06/89	12/93	<b>B-081</b>				6	11V	12V

<b>BMW</b>										
<b>3</b>										
M21 D24 (246DA), M21 D24 (246DB)	E30, 324 d	09/85	12/90	<b>B-081</b>				6	11V	12V
	E30, 324 td	09/87	06/93	<b>B-081</b>				6	11V	12V
M41 D17 (174T1)	E36, 318 tds	01/95	08/00	<b>B-081</b>				4	11V	12V
M47 D20 (204D1)	E46, 318 d	09/01	03/03	<b>B-104</b>				4	11V	12V
	E46, 320 d	02/98	09/01	<b>B-104</b>				4	11V	12V
M51 D25 (256T1)	E36, 325 td	09/91	02/98	<b>B-081</b>				6	11V	12V
	E36, 325 tds	05/93	04/99	<b>B-081</b>				6	11V	12V
M57 D30 (306D1)	E46, 330 d 2.9	10/99	02/05	<b>B-104</b>				6	11V	12V
	E46, 330 xd 2.9	01/00	03/03	<b>B-104</b>				6	11V	12V
<b>5</b>										
M21 D24 (246DA)	E28, 524 d	03/86	12/87	<b>B-081</b>				6	11V	12V
M21 D24 (246TA)	E28, 524 td	09/83	12/87	<b>B-081</b>				6	11V	12V
M21 D24 (246TB)	E34, 524 td	03/88	08/91	<b>B-081</b>				6	11V	12V
M47 D20 (204D1)	E39, 520 d	02/00	09/03	<b>B-104</b>				4	11V	12V
M51 D25 (256T1)	E34, 525 td	03/93	07/96	<b>B-081</b>				6	11V	12V
	E34, 525 tds	09/91	07/96	<b>B-081</b>				6	11V	12V
	E39, 525 td	01/97	06/03	<b>B-081</b>				6	11V	12V
	E39, 525 tds	01/96	05/04	<b>B-081</b>				6	11V	12V

ENGINE		MODEL		M/Y START		M/Y END		HKT No.		REFERENCE No.		CYL		P.V.		B.V.	
<b>BMW</b>																	
<b>5</b>																	
M57 D25 (256D1)	E39, 525 d	02/00	05/04	<b>B-104</b>				6	11V	12V							
M57 D30 (306D1)	E39, 530 d	08/98	05/04	<b>B-104</b>				6	11V	12V							
<b>7</b>																	
M51 D25 (256T1)	E38, 725 tds	04/96	11/01	<b>B-081</b>				6	11V	12V							
M57 D30 (306D1)	E38, 730 d	08/98	11/01	<b>B-104</b>				6	11V	12V							
M67 D39 (398D1)	E38, 740 d	05/99	11/01	<b>B-098</b>				8	11V	12V							
<b>X5</b>																	
M57 D30 (306D1)	E53, 3.0 d	04/01	09/03	<b>B-104</b>				6	11V	12V							

<b>CADILLAC</b>																	
<b>BLS</b>																	
Z 19 DTH	1.9 D	04/06		<b>B-125</b>				4	11V	12V							
Z 19 DTR	1.9 D	12/07		<b>B-135</b>				4	4.4V	12V							

<b>CARBODIES</b>																	
<b>FX FAIRWAY</b>																	
TD27	2.7 TD	01/87	12/96	<b>B-081</b>				4	11V	12V							
<b>FX4</b>																	
22E	2.3 D	09/72	08/85	<b>B-081</b>				4	11V	12V							
25V	2.5 D	09/85	12/89	<b>B-081</b>				4	11V	12V							
<b>FX4R</b>																	
22E	2.25 D	01/82	12/85	<b>B-096</b>				4	11V	12V							
<b>FX4S</b>																	
25V	2.5 D	01/86	12/89	<b>B-081</b>				4	11V	12V							

<b>CATERPILLAR</b>																	
<b>BULLDOZER POWER SHOVEL</b>																	
3304, 3300, 340				<b>PK-98</b>		359624X 1P7324			24V	24V							

<b>CHEVROLET</b>																	
<b>C1500</b>																	
L56	6.5 TDiC	10/96	12/00	<b>B-081</b>				8	11V	12V							
<b>C2500</b>																	
L56	6.5 TDiC	10/96	12/01	<b>PA-306</b>				8	10.5V	12V							
<b>C3500</b>																	
L56	6.5 TDiC	10/93	09/96	<b>B-081</b>				8	11V	12V							
<b>CAPTIVA</b>																	
Z 20 S	2.0 D	10/06		<b>A-605</b>		96440144		4	4.4V								
Z 22 D1	2.2 D	03/11		<b>A-608</b>		25181860		4	4.4V								
<b>CRUZE</b>																	
Z 20 DMH, Z 20 S1	2.0 CDI	05/09		<b>A-605</b>		96440144		4	4.4V								
<b>EPICA</b>																	
Z 20 S	2.0 D	01/07		<b>A-605</b>		96440144		4	4.4V								
<b>LACETTI</b>																	
Z 20 DM	2.0 D	01/07		<b>A-605</b>		96440144		4	4.4V								
<b>NUBIRA</b>																	
Z 20 S	2.0 D	01/05	12/11	<b>A-605</b>		96440144		4	4.4V								
<b>NUBIRA KOMBI</b>																	
Z 20DM, Z 20 S	2.0 D	01/07	12/11	<b>A-605</b>		96440144		4	4.4V								
<b>SILVERADO</b>																	
6.6L Duramax V8	2500 HD	2006		<b>PA-309</b>		97364968		8	4.85V								
	3500 HD	2006		<b>PA-309</b>		97364968		8	4.85V								
<b>TAHOE</b>																	
L56	6.5 TDiC	10/94	09/96	<b>PA-306</b>				8	10.5V	12V							
	6.5 TDiC AWD	10/94	09/96	<b>PA-306</b>				8	10.5V	12V							

ENGINE		MODEL		M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>CHRYSLER</b>										
<b>300C</b>										
M664	3.0 CRD	09/05	11/12	<b>B-129</b>	5175756AA	6	4.4V			
<b>300C Touring</b>										
M664	3.0 CRD	09/05	12/10	<b>B-129</b>	5175756AA	6	4.4V			
<b>DELTA</b>										
198 A2.000	1.6 D Multijet	08/11		<b>B-135</b>		4	4.4V	12V		
198 A5.000	2.0 D Multijet	08/11		<b>B-135</b>		4	4.4V	12V		
<b>PT CRUISER</b>										
EDJ	2.2 CRD	03/02	12/10	<b>B-099</b>		4	11.5V	12V		
<b>SEBRING</b>										
ECD	2.0 CRD	03/09	12/10	<b>PM-405</b>		4	4.4V	12V		
<b>VOYAGER II</b>										
09B, M00	2.5 TD	01/92	09/95	<b>B-081</b>		4	11V	12V		
<b>VOYAGER III</b>										
425 CLIRS/X, ENC	2.5 TD	01/95	04/95	<b>B-081</b>		4	11V	12V		
		05/95	03/01	<b>B-086</b>		4	11V	12V		
ENC	2.5 TDiC AWD	10/95	03/01	<b>B-086</b>		4	11V	12V		
<b>VOYAGER IV</b>										
EDK	2.5 CRD	08/05	12/08	<b>B-127</b>		4	11V	12V		
ENJ	2.5 CRD	02/00	12/08	<b>B-127</b>		4	11V	12V		
ENR	2.8 CRD	06/04	12/06	<b>B-127</b>		4	11V	12V		

<b>CITROËN</b>										
<b>AX</b>										
K9A (TUD3), K9Y (TUD3Y)	14 D	09/88	12/97	<b>B-072</b>		4	11.5V	12V		
VJY (TUD5), VJZ (TUD5)	15 D	08/94	12/97	<b>B-087</b>		4	11V	12V		
<b>BERLINGO</b>										
9HE (DV6DBM), 9HF (DV6DTED), 9HJ (DV6DTEDM), 9HP (DV6DTED)	B9, 1.6 HDi 90	07/10		<b>PZ-711</b>		4	5V	12V		
9HJ (DV6DTEDM)	B9, 1.6 HDi 92	07/10		<b>PZ-711</b>		4	5V	12V		
9HL (DV6C), 9HR (DV6C)	B9, 1.6 HDi 110	07/10		<b>PZ-711</b>		4	5V	12V		
	B9, 1.6 HDi 115	07/10		<b>PZ-711</b>		4	5V	12V		
9HN (DV6ETED), BHW (DV6FE)	B9, 1.6 HDi 75 8V / BlueHDi 75	04/08		<b>PZ-711</b>		4	5V	12V		
9HN (DV6ETED4)	B9, 1.6 HDi 75 16V	04/08		<b>PZ-711</b>		4	5V	12V		
9HS (DV6TED4BU), 9HX (DV6ATED4), 9HX (DV6AUTED4)	B9, 1.6 HDi 90 16V	04/08		<b>B-123</b>		4	11V	12V		
9HT (DV6BTED4), 9HT (DV6BUTED4)	B9, 1.6 HDi 75 16V	04/08		<b>B-123</b>		4	11V	12V		
9HW (DV6BTED4), DV6B, DV6BTED4 (9HT)	MF, 1.6 HDi 75	05/06	12/11	<b>B-123</b>		4	11V	12V		
	MF, 1.6 HDi 75	07/05	05/06	<b>B-106</b>		4	11V	12V		
9HX (DV6ATED4)	B9, 1.6 HDi 90	04/08		<b>B-123</b>		4	11V	12V		
	MF, 1.6 HDi 90	05/06	12/11	<b>B-123</b>		4	11V	12V		
	MF, 1.6 HDi 90	07/05	05/06	<b>B-106</b>		4	11V	12V		
9HZ (DV6TED4)	B9, 1.6 HDi 110	04/08		<b>B-123</b>		4	11V	12V		
A9A (XUD7)	MF, 1.8 D	07/96	10/02	<b>B-081</b>		4	11V	12V		
BHY (DV6FD)	B9, 1.6 BlueHDi 100	12/14		<b>PZ-711</b>		4	5V	12V		
BHZ (DV6FC)	B9, 1.6 BlueHDi 120	12/14		<b>PZ-711</b>		4	5V	12V		
D9B (XUD9A/L), DJY (XUD9A)	MF, 1.9 D	07/96	12/03	<b>B-081</b>		4	11V	12V		
RHY (DW10TD)	MF, 2.0 HDi 4x4	11/02	10/05	<b>B-089</b>		4	11V	12V		
	MF, 2.0 HDi 90	12/99	12/11	<b>B-089</b>		4	11V	12V		
	MF, 2.0 HDi 90 4WD	11/00	10/05	<b>B-089</b>		4	11V	12V		
WJY (DW8B), WJZ (DW8)	MF, 1.9 D	07/98	10/05	<b>B-087</b>		4	11V	12V		
	MF, 1.9 D 4WD	07/98	10/05	<b>B-087</b>		4	11V	12V		
	MF, 1.9 D 70	04/99	12/11	<b>B-087</b>		4	11V	12V		
	MF, 1.9 D 70 4WD	07/98	03/06	<b>B-087</b>		4	11V	12V		



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**CITROËN****BX**

161 (XUD7)	1.8 D	10/85	09/93	<b>B-081</b>		4	11V	12V
161A (XUD7)	18 D	10/85	09/93	<b>B-081</b>		4	11V	12V
162 (XUD9), D9A (XUD9), D9B (XUD9A/U), DJZ (XUD9Y)	19 D	09/83	12/94	<b>B-081</b>		4	11V	12V
A8A (XUD7TE), AJZ (XUD7TE)	1.8 TRD Turbo	03/88	12/94	<b>B-081</b>		4	11V	12V
D9B (XUD9A/L)	1.9 D	01/87	01/92	<b>B-081</b>		4	11V	12V
	1.9 DT TXD	02/92	12/94	<b>B-081</b>		4	11V	12V
	1.9 RD 4x4	01/87	01/92	<b>B-081</b>		4	11V	12V

**C1 I**

8HT (DV4TD)	1.4 HDi	06/05	09/14	<b>B-123</b>		4	11V	12V
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**C2**

8HX (DV4TD), 8HZ (DV4TD)	1.4 HDi	09/03		<b>B-106</b>		4	11V	12V
9HZ (DV6TED4)	1.6 HDi	05/06		<b>B-123</b>		4	11V	12V
	1.6 HDi	09/05	05/06	<b>B-106</b>		4	11V	12V

**C3 I**

8HX (DV4TD), 8HZ (DV4TD)	1.4 HDi	02/02		<b>B-106</b>		4	11V	12V
8HY (DV4TED4)	1.4 16V HDi	02/02		<b>B-106</b>		4	11V	12V
9HX (DV6ATED4)	1.6 16V HDi	05/06		<b>B-123</b>		4	11V	12V
	1.6 16V HDi	10/05	05/06	<b>B-106</b>		4	11V	12V
9HZ (DV6TED4)	1.6 16V HDi	05/06		<b>B-123</b>		4	11V	12V
	1.6 16V HDi	09/05	05/06	<b>B-106</b>		4	11V	12V

**C3 II**

8HR (DV4C)	1.4 HDi 70	11/09		<b>PZ-711</b>		4	5V	12V
8HZ (DV4TD)	1.4 HDi 70	11/09		<b>B-123</b>		4	11V	12V
9HD (DV6C)	1.6 HDi 115	09/12		<b>PZ-711</b>		4	5V	12V
9HJ (DV6DTEDM), 9HP (DV6DTE)	1.6 HDi	11/09	09/16	<b>PZ-711</b>		4	5V	12V
9HK (DV6ETEDM), BHW (DV6FE)	1.6 BlueHDi 75	04/15		<b>PZ-711</b>		4	5V	12V
9HR (DV6C)	1.6 HDi 110	11/09		<b>PZ-711</b>		4	5V	12V
9HX (DV6ATED4)	1.6 HDi 90	11/09		<b>B-123</b>		4	11V	12V
BHY (DV6FD)	1.6 BlueHDi 100	07/14		<b>PZ-711</b>		4	5V	12V

**C3 Picasso**

9HD (DV6C)	1.6 HDi 115	01/13		<b>PZ-711</b>		4	5V	12V
9HP (DV6DTE)	1.6 HDi 90	07/10		<b>PZ-711</b>		4	5V	12V
9HR (DV6C)	1.6 HDi 110	05/10		<b>PZ-711</b>		4	5V	12V
9HX (DV6ATED4), 9HZ (DV6TED4)	1.6 HDi	02/09		<b>B-123</b>		4	11V	12V
BHY (DV6FD)	1.6 BlueHDi 100	01/15		<b>PZ-711</b>		4	5V	12V










**C3 Pluriel**

8HX (DV4TD)	1.4 HDi	04/04		<b>B-106</b>		4	11V	12V
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**C4**

9HC (DV6C), BHX (DV6FC)	GrandPicassoll, 1.6 HDi / BlueHDi 115	02/13		<b>PZ-711</b>		4	5V	12V
9HL (DV6C), 9HR (DV6C)	GrandPicassol, 1.6 HDi 110	09/10	08/13	<b>PZ-711</b>		4	5V	12V
9HP (DV6DTE)	GrandPicassoll, 1.6 HDi 90	02/13		<b>PZ-711</b>		4	5V	12V
9HY (DV6TED4), 9HZ (DV6TED4)	GrandPicassol, 1.6 HDi	10/06	08/13	<b>B-123</b>		4	11V	12V
AHE (DW10FD), AHR (DW10FD), AHX (DW10FD)	GrandPicassoll, 2.0 BlueHDi 150	06/13		<b>PZ-711</b>		4	5V	12V
AHV (DW10FD), RHD (DW10CB)	GrandPicassoll, 2.0 BlueHDi 135	09/13		<b>PZ-711</b>		4	5V	12V
BHY (DV6FD)	GrandPicassoll, 1.6 BlueHDi 100	12/14		<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	GrandPicassoll, 1.6 BlueHDi 120	07/14		<b>PZ-711</b>		4	5V	12V
RHE (DW10CTED4)	GrandPicassol, 2.0 HDi 150	07/09	08/13	<b>PZ-711</b>		4	5V	12V
RHH (DW10CTED4)	GrandPicassol, 2.0 HDi 165	09/10	08/13	<b>PZ-711</b>		4	5V	12V
RHJ (DW10BTED4), RHR (DW10BTED4)	GrandPicassol, 2.0 HDi 138	10/06	12/13	<b>B-131</b>		4	11V	12V



 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>CITROËN</b>																	
<b>C4 Aircross</b>																	
4N13	1.8 HDi 150	04/12		<b>CP-08</b>	1607849980, 1820-A019, GN123	4	11V	12V									
	1.8 HDi 150 AWC	04/12		<b>CP-08</b>	1607849980, 1820-A019, GN123	4	11V	12V									
9HD (DV6C)	1.6 HDi 115	04/12		<b>PZ-711</b>		4	5V	12V									
9HL (DV6C)	1.6 HDi 115 AWC	05/12		<b>PZ-711</b>		4	5V	12V									
<b>C4 Cactus</b>																	
9HP (DV6DTE4)	1.6 HDi 90	09/14		<b>PZ-711</b>		4	5V	12V									
BHY (DV6FD)	1.6 BlueHDi 100	09/14		<b>PZ-711</b>		4	5V	12V									
<b>C4 Coupe</b>																	
9HX (DV6ATED4)	1.6 HDi	05/06	07/11	<b>B-123</b>		4	11V	12V									
	1.6 HDi	11/04	05/06	<b>B-106</b>		4	11V	12V									
9HY (DV6TED4), 9HZ (DV6TED4)	1.6 HDi	05/06	07/11	<b>B-123</b>		4	11V	12V									
	1.6 HDi	11/04	05/06	<b>B-106</b>		4	11V	12V									
RHF (DW10BTED4), RHR (DW10BTED4)	2.0 HDi	11/04	07/11	<b>B-131</b>		4	11V	12V									
<b>C4 I</b>																	
9HX (DV6ATED4)	LC, LR, 1.6 HDi	05/06	07/11	<b>B-123</b>		4	11V	12V									
	LC, LR, 1.6 HDi	11/04	05/06	<b>B-106</b>		4	11V	12V									
9HY (DV6TED4), 9HZ (DV6TED4)	LC, LR, 1.6 HDi	05/06	07/11	<b>B-123</b>		4	11V	12V									
	LC, LR, 1.6 HDi	07/06	07/11	<b>B-123</b>		4	11V	12V									
	LC, LR, 1.6 HDi	11/04	05/06	<b>B-106</b>		4	11V	12V									
RHF (DW10BTED4), RHR (DW10BTED4), RHZ (DW10ATED)	LC, LR, 2.0 HDi	11/04	07/11	<b>B-131</b>		4	11V	12V									
<b>C4 II</b>																	
9HD (DV6C), 9HR (DV6C)	B7, NC, 1.6 HDi 115	07/12		<b>PZ-711</b>		4	5V	12V									
9HJ (DV6DTE4), 9HP (DV6DTE4)	B7, NC, 1.6 HDi 90	11/09		<b>PZ-711</b>		4	5V	12V									
9HR (DV6C)	B7, NC, 1.6 HDi 110	11/09		<b>PZ-711</b>		4	5V	12V									
AHR (DW10FD), RHE (DW10CTED4)	B7, NC, 2.0 HDi / BlueHDi 150	11/09		<b>PZ-711</b>		4	5V	12V									
BHX (DV6FC)	B7, NC, 1.6 BlueHDi 115	08/14		<b>PZ-711</b>		4	5V	12V									
BHY (DV6FD)	B7, NC, 1.6 BlueHDi 100	07/14		<b>PZ-711</b>		4	5V	12V									
BHZ (DV6FC)	B7, NC, 1.6 BlueHDi 120	02/15		<b>PZ-711</b>		4	5V	12V									
<b>C5 I</b>																	
4HX (DW12TED4/FAP)	2.2 HDi	03/01	04/03	<b>B-089</b>		4	11V	12V									
	2.2 HDi	04/03	08/04	<b>B-131</b>		4	11V	12V									
RHS (DW10ATED), RHZ (DW10ATED)	2.0 HDi	03/01	04/03	<b>B-089</b>		4	11V	12V									
	2.0 HDi	04/03	08/04	<b>B-131</b>		4	11V	12V									
RHY (DW10TD)	2.0 HDi	03/01	08/04	<b>B-089</b>		4	11V	12V									
<b>C5 II</b>																	
4HP (DW12BTED4), 4HR (DW12BTED4), 4HT (DW12BTED4)	2.2 HDi	04/06		<b>B-124</b>		4	11V	12V									
4HX (DW12TED4/FAP)	2.2 HDi	09/04		<b>B-131</b>		4	11V	12V									
9HY (DV6TED4), 9HZ (DV6TED4)	1.6 HDi	05/06		<b>B-123</b>		4	11V	12V									
	1.6 HDi	09/04	05/06	<b>B-106</b>		4	11V	12V									
RHR (DW10BTED4)	2.0 HDi	09/04		<b>B-131</b>		4	11V	12V									
<b>C5 III</b>																	
4HP (DW12BTED4)	2.2 HDi 165	02/08		<b>B-124</b>		4	11V	12V									
4HT (DW12BTED4)	2.2 HDi	02/08		<b>B-124</b>		4	11V	12V									
9HL (DV6C), 9HR (DV6C)	1.6 HDi 110	07/10		<b>PZ-711</b>		4	5V	12V									
	1.6 HDi 115	01/12		<b>PZ-711</b>		4	5V	12V									
9HZ (DV6TED4)	1.6 HDi 110	02/08		<b>B-123</b>		4	11V	12V									
AHR (DW10FD), RHE (DW10CTED4)	2.0 HDi 150 / BlueHDi 150	04/09		<b>PZ-711</b>		4	5V	12V									
AHW (DW10FC)	2.0 HDi 180	03/15		<b>PZ-711</b>		4	5V	12V									
DT17ED4, UHZ (DT17BTED4)	2.7 HDi	02/08		<b>B-134</b>		6	11V	12V									
RHF (DW10BTED4)	2.0 HDi 140	11/08		<b>B-131</b>		4	11V	12V									



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**CITROËN**

ENGINE	MODEL	M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>C5 III</b>								
RHF (DW10BTED4), RHR (DW10BTED4)	2.0 HDi	02/08		<b>B-131</b>		4	11V	12V
RHH (DW10CTED4)	2.0 HDi 165	04/09		<b>PZ-711</b>		4	5V	12V
<b>C6</b>								
4HP (DW12BTED4)	2.2 HDi	06/06	12/10	<b>B-124</b>		4	11V	12V
DT17ED4, UHZ (DT17BTED4)	2.7 HDi	09/05	12/11	<b>B-134</b>		6	11V	12V
<b>C8</b>								
4HP (DW12BTED4), 4HR (DW12BTED4), 4HT (DW12BTED4)	2.2 HDi	06/06		<b>B-124</b>		4	11V	12V
4HW (DW12TED4)	2.2 HDi	07/02	04/03	<b>B-089</b>		4	11V	12V
	2.2 HDi	04/03		<b>B-131</b>		4	11V	12V
RHD (DW10CB), RHD (DW10CTED4)	2.0 HDi 135	03/06		<b>PZ-711</b>		4	5V	12V
RHH (DW10CTED4)	2.0 HDi 165	03/06		<b>PZ-711</b>		4	5V	12V
RHK (DW10UTED4)	2.0 HDi	07/06		<b>B-131</b>		4	11V	12V
RHM (DW10ATED4), RHT (DW10ATED4), RHW (DW10ATED4)	2.0 HDi	07/02	04/03	<b>B-089</b>		4	11V	12V
	2.0 HDi	04/03		<b>B-131</b>		4	11V	12V
RHR (DW10BTED4)	2.0 HDi 135	03/06		<b>B-131</b>		4	11V	12V
<b>C15</b>								
161A (XUD7)	1.8 D	07/86	12/00	<b>B-081</b>		4	11V	12V
WJX (DW8B)	1.9 D	12/00	12/05	<b>B-087</b>		4	11V	12V
<b>C25</b>								
CRD93L (U25-661)	2.5 D	11/81	02/94	<b>B-081</b>		4	11V	12V
	2.5 D 4x4	11/83	02/94	<b>B-081</b>		4	11V	12V
CRD93LS (U25-673)	2.5 D Turbo	08/87	02/94	<b>B-081</b>		4	11V	12V
	2.5 D Turbo 4x4	08/87	02/94	<b>B-081</b>		4	11V	12V
	2.5 DT	01/87	01/94	<b>B-081</b>		4	11V	12V
	2.5 DT 4x4	08/91	01/94	<b>B-081</b>		4	11V	12V
D9B (XUD9A/U)	1.9 D	07/87	02/94	<b>B-081</b>		4	11V	12V
DJY (XUD9A)	1.9 D 1400	01/88	01/94	<b>B-081</b>		4	11V	12V
M705	1.9 DT	10/91	01/94	<b>B-081</b>		4	11V	12V
	1.9 TD	04/92	02/94	<b>B-081</b>		4	11V	12V
<b>C35</b>								
B22615	2.2 D	11/73	01/80	<b>B-081</b>		4	11V	12V
B25637	2.5 D	02/80	01/94	<b>B-081</b>		4	11V	12V
<b>C-CROSSER</b>								
4HN (DW12MTED4)	2.2 HDi	02/07		<b>B-124</b>		4	11V	12V
<b>C-ELYSEE</b>								
9HJ (DV6DTEDM), 9HP (DV6DTED)	1.6 HDi 92	11/12		<b>PZ-711</b>		4	5V	12V
BHY (DV6FD)	1.6 BlueHDi 100	11/14		<b>PZ-711</b>		4	5V	12V
<b>CX I</b>								
M22-617	2200	09/74	07/76	<b>B-081</b>		4	11V	12V
M22-621	2200 D	10/75	02/79	<b>B-081</b>		4	11V	12V
M25-629	2500 D	02/78	08/85	<b>B-081</b>		4	11V	12V
M25-648	25 D Turbo	04/83	08/85	<b>B-081</b>		4	11V	12V
	2500 D Turbo	04/83	08/85	<b>B-081</b>		4	11V	12V
<b>CX II</b>								
M25-648	2500 D Turbo	08/85	12/86	<b>B-081</b>		4	11V	12V
M25-648, M25-669	25 D Turbo	08/85	12/92	<b>B-081</b>		4	11V	12V
M25-660	25 D	08/85	12/92	<b>B-081</b>		4	11V	12V
M25-669	25 D Turbo 2	01/87	12/92	<b>B-081</b>		4	11V	12V
<b>DS</b>								
B22627	2.2	02/69	06/72	<b>B-081</b>		4	11V	12V
B22627, B22644	21	09/65	08/75	<b>B-081</b>		4	11V	12V
<b>DS3</b>								
8HR (DV4C)	1.4 HDi 70	04/10	07/15	<b>PZ-711</b>		4	5V	12V
9HD (DV6C), 9HL (DV6C), BH X (DV6FC)	1.6 HDi 115	08/12	07/15	<b>PZ-711</b>		4	5V	12V
9HP (DV6DTED)	1.6 HDi 90	11/09	07/15	<b>PZ-711</b>		4	5V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## CITROËN

## DS3

9HR (DV6C)	1.6 HDi 110	11/09	07/15	<b>PZ-711</b>		4	5V	12V
BHW (DV6FE)	1.6 BlueHDi 75	03/15	07/15	<b>PZ-711</b>		4	5V	12V
BHX (DV6FC)	1.6 BlueHDi 115	10/13	07/15	<b>PZ-711</b>		4	5V	12V
BHY (DV6FD)	1.6 BlueHDi 100	07/14	07/15	<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	1.6 BlueHDi 120	10/13	07/15	<b>PZ-711</b>		4	5V	12V

## DS4

9HD (DV6C), 9HL (DV6C)	1.6 HDi 115	08/12	07/15	<b>PZ-711</b>		4	5V	12V
9HP (DV6DTE)	1.6 HDi 90	05/11	07/15	<b>PZ-711</b>		4	5V	12V
9HR (DV6C)	1.6 HDi 110	04/11	07/15	<b>PZ-711</b>		4	5V	12V
AHS (DW10FD), AHV (DW10FD), RHD (DW10CB), RHD (DW10CTED4)	2.0 HDi / BlueHDi 135	09/11	07/15	<b>PZ-711</b>		4	5V	12V
AHW (DW10FC)	2.0 BlueHDi 180	07/14	07/15	<b>PZ-711</b>		4	5V	12V
AHX (DW10FD)	2.0 BlueHDi 150	07/14	07/15	<b>PZ-711</b>		4	5V	12V
BHX (DV6FC)	1.6 BlueHDi 115	07/14	07/15	<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	1.6 BlueHDi 120	07/14	07/15	<b>PZ-711</b>		4	5V	12V
RHH (DW10CTED4)	2.0 HDi 165	04/11	07/15	<b>PZ-711</b>		4	5V	12V

## DS5

9HD (DV6C)	1.6 HDi 115	06/12	07/15	<b>PZ-711</b>		4	5V	12V
9HR (DV6C)	1.6 HDi 110	11/11	07/15	<b>PZ-711</b>		4	5V	12V
AHS (DW10FD)	2.0 HDi 200 Hybrid4 AWD	12/11	07/15	<b>PZ-711</b>		4	5V	12V
AHW (DW10FC)	2.0 BlueHDi 180	08/13	07/15	<b>PZ-711</b>		4	5V	12V
AHX (DW10FD)	2.0 BlueHDi 150	07/14	07/15	<b>PZ-711</b>		4	5V	12V
BHX (DV6FC)	1.6 HDi	11/13	07/15	<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	1.6 BlueHDi 120	07/14	07/15	<b>PZ-711</b>		4	5V	12V
RHC (DW10CTED4)	2.0 HDi 165 Hybrid4 4x4	12/11	07/15	<b>PZ-711</b>		4	5V	12V
RHD (DW10CB)	2.0 HDi 135	11/11	07/15	<b>PZ-711</b>		4	5V	12V
RHH (DW10CTED4)	2.0 HDi 165	11/11	07/15	<b>PZ-711</b>		4	5V	12V

## EVASION

D8B (XUD9TF), DHX (XUD9TF/BTF)	1.9 TD	11/94	07/02	<b>B-081</b>		4	11V	12V
P8C (XUD11BTE)	2.1 TD	05/96	07/02	<b>B-081</b>		4	11V	12V
RHW (DW10ATED4)	2.0 HDi 16V	09/99	07/02	<b>B-089</b>		4	11V	12V
RHZ (DW10ATED)	2.0 HDi	08/99	07/02	<b>B-089</b>		4	11V	12V

## ID

B22604, B22644	21 F	04/66	11/72	<b>B-081</b>		4	11V	12V
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## JUMPER

4HG (P22DTE)	2.2 HDi 110	07/11		<b>PZ-713</b>		4	4.4V	12V
4HH (P22DTE)	2.2 HDi 130	07/11		<b>PZ-713</b>		4	4.4V	12V
4HJ (P22DTE)	2.2 HDi 150	07/11		<b>PZ-713</b>		4	4.4V	12V
4HU (P22DTE)	2.2 HDi 120	04/06		<b>B-101</b>		4	11.5V	12V
4HV (P22DTE)	2.2 HDi 100	04/06		<b>B-101</b>		4	11.5V	12V
4HY (DW12UTED)	2.2 HDi	02/02	04/03	<b>B-089</b>		4	11V	12V
	2.2 HDi	04/03		<b>B-131</b>		4	11V	12V
8140.43N, 8140.43S	2.8 HDi	04/02		<b>B-097</b>		4	11V	12V
8140.43S	2.8 HDi	09/00	04/02	<b>B-097</b>		4	11V	12V
	2.8 HDi 4x4	09/00	04/02	<b>B-097</b>		4	11V	12V
	2.8 HDi AWD	04/02		<b>B-097</b>		4	11V	12V
8140.43S, F28TDCR	2.8 HDi 4x4	02/02		<b>B-097</b>		4	11V	12V
8140.63 (F28D)	2.8 D	01/99	02/02	<b>B-097</b>		4	11V	12V
AHN (DW10FUD)	2.0 BlueHDi 130	07/15		<b>PZ-711</b>		4	5V	12V
AHP (DW10FUC)	2.0 BlueHDi 160	07/15		<b>PZ-711</b>		4	5V	12V
D8C (XUD9UTF)	1.9 TD 4x4	08/96	04/02	<b>B-081</b>		4	11V	12V
D8C (XUD9UTF), DHX (XUD9TF/BTF)	1.9 TD	02/94	04/02	<b>B-081</b>		4	11V	12V
D9B (XUD9A/U), DJY (XUD9A)	1.9 D	02/94	04/02	<b>B-081</b>		4	11V	12V
DW10FUE	2.0 BlueHDi 110	07/15		<b>PZ-711</b>		4	5V	12V
F1CE0481D (F30DT)	3.0 HDi 155	07/10		<b>PM-403</b>		4	11V	12V
	3.0 HDi 160	09/06		<b>PM-403</b>		4	11V	12V
F1CE3481E (F30DTE)	3.0 HDi 180	07/11		<b>PM-403</b>		4	11V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**CITROËN****JUMPER**

FICE3481N (F30DTE)	3.0 HDi 145	07/10		<b>PM-403</b>		4	11V	12V
RHV (DW10TD)	2.0 HDi	11/01	04/02	<b>B-089</b>		4	11V	12V
RHV (DW10UTD)	2.0 HDi	04/02		<b>B-089</b>		4	11V	12V
T8A (DJ5T)	2.5 TD	03/94	04/02	<b>B-081</b>		4	11V	12V
	2.5 TD 4x4	08/96	04/02	<b>B-081</b>		4	11V	12V
T9A (DJ5)	2.5 D	03/94	04/02	<b>B-081</b>		4	11V	12V
	2.5 D 4x4	08/96	04/02	<b>B-081</b>		4	11V	12V
THX (DJ5TED)	2.5 TDi	12/96	04/02	<b>B-113</b>		4	11V	12V
	2.5 TDi 4x4	12/96	04/02	<b>B-113</b>		4	11V	12V
THZ (DJ5T)	2.5 DT 4x4	10/96	08/97	<b>B-081</b>		4	11V	12V

**JUMPY**

9HH (DV6DUM), 9HM (DV6UC)	1.6 HDi 90 8V	01/07		<b>PZ-711</b>		4	5V	12V
9HU (DV6UTED4)	1.6 HDi 90 16V	01/07		<b>B-123</b>		4	11V	12V
AHW (DW10FC)	2.0 BlueHDi 180	04/16		<b>PZ-711</b>		4	5V	12V
AHY (DW10CE)	2.0 HDi 95	07/11		<b>PZ-711</b>		4	5V	12V
AHZ (DW10CD)	2.0 HDi 125	07/11		<b>PZ-711</b>		4	5V	12V
D8B (XUD9TF), DHX (XUD9TF/BTF)	1.9 TD	10/95	10/06	<b>B-081</b>		4	11V	12V
D9B (XUD9A/U)	1.9 D	10/95	08/98	<b>B-081</b>		4	11V	12V
DV6C, DV6FC	1.6 BlueHDi 115	04/16		<b>PZ-711</b>		4	5V	12V
DW10FE	2.0 BlueHDi 120	04/16		<b>PZ-711</b>		4	5V	12V
RHH (DW10CTED4)	2.0 HDi 165	07/10		<b>PZ-711</b>		4	5V	12V
RHK (DW10UTED4)	2.0 HDi 120	01/07		<b>B-131</b>		4	11V	12V
	2.0 HDi 120 4x4	01/10		<b>B-131</b>		4	11V	12V
RHR (DW10BTED4)	2.0 HDi 140	01/07		<b>B-131</b>		4	11V	12V
RHW (DW10ATED4)	2.0 HDi 110 16V	12/03	10/06	<b>B-131</b>		4	11V	12V
RHW (DW10ATED4), RHZ (DW10ATED), RHZ (DW10BTED), RHZ (DW10BTED+), RHZ (DW10CTED), RHZ (DW10CTED+)	2.0 HDi 110	03/00	04/03	<b>B-089</b>		4	11V	12V
	2.0 HDi 110	04/03	10/06	<b>B-131</b>		4	11V	12V
RHX (DW10BTED)	2.0 HDi 95	10/99	10/06	<b>B-131</b>		4	11V	12V
RHZ (DW10ATED), RHZ (DW10BTED), RHZ (DW10BTED+), RHZ (DW10CTED), RHZ (DW10CTED+)	2.0 HDi 110	12/03	10/06	<b>B-131</b>		4	11V	12V
WJY (DW8B), WJZ (DW8)	1.9 D 70	04/98	10/06	<b>B-087</b>		4	11V	12V
	1.9 DT	10/95	08/00	<b>B-081</b>		4	11V	12V

**NEMO**

8HS (DV4TED)	1.4 HDi	02/08		<b>B-123</b>		4	11V	12V
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**SAXO**

VJX (TUD5), VJY (TUD5), VJZ (TUD5)	1.5 D	09/96	04/04	<b>B-087</b>		4	11V	12V
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**SPACETOURER**

AHW (DW10FC)	2.0 BlueHDi 180	04/16		<b>PZ-711</b>		4	5V	12V
DV6C, DV6FC	1.6 BlueHDi 115	04/16		<b>PZ-711</b>		4	5V	12V

**VISA**










161A (XUD7)	17 D	04/84	03/91	<b>B-081</b>		4	11V	12V
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**XANTIA**

D8B (XUD9TF), DHX (XUD9TF/BTF), DHY (XUD9TE/Y)	1.9 Turbo D	05/93	04/03	<b>B-081</b>		4	11V	12V
D9B (XUD9A/L), DJZ (XUD9Y)	1.9 D	06/94	01/98	<b>B-081</b>		4	11V	12V
DHW (XUD9SD)	1.9 SD	02/96	04/03	<b>B-081</b>		4	11V	12V
P8C (XUD11BTE)	2.1 Turbo D 12V	06/95	02/99	<b>B-081</b>		4	11V	12V
RHY (DW10TD)	2.0 HDi 90	03/99	04/03	<b>B-089</b>		4	11V	12V
RHZ (DW10ATED)	2.0 HDi 109	02/99	04/03	<b>B-089</b>		4	11V	12V

ENGINE	MODEL	M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>CITROËN</b>								
<b>XM</b>								
P8A (XUD11ATE), P8C (XUD11BTE), PHZ (XUD11ATE), PJZ (XUD11ATE)	2.1 TD 12V	05/89	06/94	<b>B-081</b>		4	11V	12V
	2.1 TD 12V	05/94	10/00	<b>B-081</b>		4	11V	12V
P9A (XUD11A)	2.1 D 12V	05/89	06/94	<b>B-081</b>		4	11V	12V
	2.1 D12	07/94	06/96	<b>B-081</b>		4	11V	12V
	2.1 D12 VSX	03/96	08/96	<b>B-081</b>		4	11V	12V
THY (DK5ATE)	2.5 TD	05/94	10/00	<b>B-081</b>		4	11V	12V
<b>XSARA</b>								
161A (XUD7), A9A (XUD7)	1.8 D	04/97	09/00	<b>B-081</b>		4	11V	12V
8HX (DV4TD)	1.4 HDi	01/03	08/05	<b>B-106</b>		4	11V	12V
DHV (XUD9BSD)	1.9 SD	01/98	09/00	<b>B-081</b>		4	11V	12V
DHV (XUD9BSD), DJY (XUD9A)	1.9 D	04/97	09/00	<b>B-081</b>		4	11V	12V
DHY (XUD9TE/Y)	1.9 TD	04/97	09/00	<b>B-081</b>		4	11V	12V
RHY (DW10TD)	2.0 HDi	04/01	03/05	<b>B-089</b>		4	11V	12V
	2.0 HDi 90	02/99	08/05	<b>B-089</b>		4	11V	12V
RHZ (DW10ATED)	2.0 HDi 109	04/03	08/05	<b>B-131</b>		4	11V	12V
	2.0 HDi 109	05/01	04/03	<b>B-089</b>		4	11V	12V
VJZ (TUD5)	1.5 D	04/97	09/00	<b>B-087</b>		4	11V	12V
WJY (DW8B), WJZ (DW8)	1.9 D	07/98	08/05	<b>B-087</b>		4	11V	12V
<b>XSARA Picasso</b>								
9HX (DV6ATED4)	1.6 HDi	05/06	12/11	<b>B-123</b>		4	11V	12V
	1.6 HDi	09/05	05/06	<b>B-106</b>		4	11V	12V
9HY (DV6TED4), 9HZ (DV6TED4)	1.6 HDi	05/04	05/06	<b>B-106</b>		4	11V	12V
	1.6 HDi	05/06	12/11	<b>B-123</b>		4	11V	12V
RHY (DW10TD)	2.0 HDi	12/99	12/11	<b>B-089</b>		4	11V	12V
<b>ZX</b>								
161A (XUD7)	1.8 D	06/93	10/97	<b>B-081</b>		4	11V	12V
D9B (XUD9A/U), DJY (XUD9A), DJZ (XUD9Y)	1.9 D	03/91	10/97	<b>B-081</b>		4	11V	12V
DHY (XUD9TE/Y)	1.9 DT	06/92	10/97	<b>B-081</b>		4	11V	12V
	1.9 TD	07/92	10/97	<b>B-081</b>		4	11V	12V
K9Y (TUD3Y)	1.4 D	07/94	10/97	<b>B-072</b>		4	11.5V	12V

<b>DACIA</b>								
<b>DOKKER</b>								
K9K 612, K9K 626	1.5 dCi	11/12		<b>PN-900</b>		4	4.4V	12V
<b>DUSTER</b>								
K9K 612, K9K 666, K9K 667, K9K 830, K9K 856, K9K 858, K9K 884, K9K 892, K9K 896	1.5 dCi	04/10		<b>PN-900</b>		4	4.4V	12V
K9K 658, K9K 856, K9K 858, K9K 884, K9K 892, K9K 894, K9K 898	1.5 dCi 4x4	10/10		<b>PN-900</b>		4	4.4V	12V
K9K 796, K9K 896	1.5 dCi	04/10	01/18	<b>B-077</b>		4	11V	12V
<b>LODGY</b>								
K9K 612, K9K 626, K9K 846	1.5 dCi	03/12		<b>PN-900</b>		4	4.4V	12V
<b>LOGAN I</b>								
K9K 790, K9K 792, K9K 796	1.5 dCi	09/05		<b>B-077</b>		4	11V	12V
K9K 892	1.5 dCi	05/10		<b>PN-900</b>		4	4.4V	12V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
<b>DACIA</b>								
<b>LOGAN II</b>								
K9K 612, K9K 626, K9K 830, K9K 838	1.5 dCi	10/12		<b>PN-900</b>		4	4.4V	12V
<b>LOGAN MCV I</b>								
K9K 792, K9K 796	1.5 dCi	02/07		<b>B-077</b>		4	11V	12V
K9K 892	1.5 dCi	05/10		<b>PN-900</b>		4	4.4V	12V
<b>LOGAN MCV II</b>								
K9K 612, K9K 626, K9K 830, K9K 838	1.5 dCi	02/13		<b>PN-900</b>		4	4.4V	12V
<b>SANDERO I</b>								
K9K 792, K9K 796	Stepway, 1.5 dCi	11/08		<b>B-077</b>		4	11V	12V
K9K 892	Stepway, 1.5 dCi	05/10		<b>PN-900</b>		4	4.4V	12V
<b>SANDERO II</b>								
K9K 612, K9K 626, K9K 830, K9K 838	Stepway, 1.5 dCi	10/12		<b>PN-900</b>		4	4.4V	12V
<b>SOLENZA</b>								
F8Q.630	1.9 D	02/03		<b>B-094</b>		4	11V	12V

**DAEWOO****KORANDO**

MB-OM 601 29TD	2.9 TD	01/99		<b>B-078</b>		5	11.5V	12V
MB-OM 662	2.9 D	01/99		<b>B-078</b>		5	11.5V	12V

**MUSSO**

MB OM 601	2.2 TD	09/99		<b>B-078</b>		4	11.5V	12V
MB-OM 601 29TD	2.9 TD 4x4	01/99		<b>B-078</b>		5	11.5V	12V
MB-OM 662	2.9 D 4x4	01/99	09/99	<b>B-078</b>		5	11.5V	12V

**REXTON**

OM 662.983	2.9 TD	04/02		<b>B-078</b>		5	11.5V	12V
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**DAF****400-Serie**

BN 52, EN 55	428-435 2.5 D	04/89	08/93	<b>B-081</b>		4	11V	12V
ET 70	428-435 2.5 TD	04/89	08/93	<b>B-081</b>		4	11V	12V

**DAIHATSU****CHARADE**

CL10	N-G30, N-G30V	01/83		<b>PD-190</b>	19850-87701	3	7V	12V
CL30	Q-G101S (MANUAL TM)	01/87		<b>PD-192</b>	19850-87703	3	11V	12V
CL50 TURBO	N-30G (AUTOMATIC TM)	02/86		<b>PD-191</b>	19850-87702	3	11V	12V
	N-G30 (MT)	09/84		<b>PD-190</b>	19850-87701	3	7V	12V
CL51 T	N-G101S (AT)	01/87		<b>PD-191</b>	19850-87702	3	11V	12V
CL70	Q-G101 (AT)	02/89		<b>PD-191</b>	19850-87702	3	11V	12V
	Q-G101 (MT)	02/89		<b>PD-192</b>	19850-87703	3	11V	12V
CL70 T	Q-G101S (MT)	01/87		<b>PD-192</b>	19850-87703	3	11V	12V

**CHARADE III**

CL, CL61	1.0 TD (G101)	03/87	12/92	<b>PT-154</b>		3	11V	12V
CL11	1.0 D (G101)	03/87	12/92	<b>PT-154</b>		3	11V	12V

**DELTA**

13B	P-V75, P-V76, P-V78, P-V79	09/84	08/88	<b>PT-141</b>	19850-68060	4	14V	24V
14B	U-V115, U-V116, U-V118, U-V119	08/88	04/95	<b>PT-153</b>	19850-58010	4	23V	24V
2C	S-CB72V	08/88		<b>PD-191</b>	19850-87702	4	11V	12V
2C-T	Q-CB21G	08/88		<b>PD-190</b>	19850-87701	4	7V	12V
3B	KC-BU100N, KC-BU105N	05/95		<b>PT-153</b>	19850-58010	4	23V	24V
	K-V48	1980	02/83	<b>PT-101</b>	19850-56012	4	20.5V	24V
	N-V40, N-V42, N-V47, N-V48	02/83	07/84	<b>PT-145</b>	19850-68010	4	10.5V	12V

ENGINE		MODEL		M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>DAIHATSU</b>										
<b>DELTA</b>										
B	DV28	1972	07/77	<b>PT-94</b>	19850-56010	4	19V	24V		
	N-V10, N-V12, N-V13, N-V15, N-V98, N-V98D, N-V99	09/80	07/88	<b>PT-141</b>	19850-68060	4	14V	24V		
	N-V98, N-V98D, N-V99	08/88	04/95	<b>PT-153</b>	19850-58010	4	23V	24V		
	V10, V11, V12, K-V10, K-V11, K-V12, K-V17, K-V18	08/77	09/80	<b>PT-101</b>	19850-56012	4	20.5V	24V		
DG	V20, V23, V24, V25, V26, K-V20, K-V23, K-V24, K-V25, K-V26	08/77	02/83	<b>PT-104</b>	19850-87309	4	8.5V	12V		
DL	N-V54, N-V56, N-V57	02/83	04/95	<b>PD-190</b>	19850-87701	4	7V	12V		
J05C	KK-XZU300P, KK-XZU310J, KK-XZU320J, KK-XZU330N, KK-XZU340N, KK-XZU350P, KK-XZU400J/N, KK-XZU410N, KK-XZU420N, KK-XZU421N, KK-XZU430N	05/99		<b>PH-26</b>	19850-89101 067100-1830	4	23V	24V		
S05C	KK-XZU302J/N/P/U, KK-XZU307N/Z, KK-XZU312U, KK-XZU322N/U, KK-XZU337N, KK-XZU347N, KK-XZU352U, KK-XZU362J/N/U, KK-XZU372N, KK-XZU382N, KK-XZU402N, KK-XZU412N	05/99		<b>PH-26</b>	19850-89101 067100-1830	4	23V	24V		
S05D	KK-XZU301J/P/U, KK-XZU306N, KK-XZU311J/U, KK-XZU321J/U, KK-XZU331N, KK-XZU341N, KK-XZU346N, KK-XZU351U, KK-XZU371N, KK-XZU411N	05/99		<b>PH-26</b>	19850-89101 067100-1830	4	23V	24V		
<b>DELTA WIDE</b>										
1C	N-CB26V	05/83	08/87	<b>PD-190</b>	19850-87701	4	7V	12V		
	S-CB26V	08/87	08/88	<b>PT-150</b>	19850-64020	4	11V	12V		
2C	KB-CB27V	08/95	11/96	<b>PT-154</b>	19850-64050	4	11V	12V		
	N-CB21G	05/83	08/85	<b>PD-190</b>	19850-87701	4	7V	12V		
	S-CB27V, KB-CB27V	08/88	08/95	<b>PT-150</b>	19850-64020	4	11V	12V		
2C-T	N-CB21G	08/85	08/87	<b>PD-190</b>	19850-87701	4	7V	12V		
	N-CB21G, Q-CB21G	08/87	08/95	<b>PT-150</b>	19850-64020	4	11V	12V		
3C-T	Y-CB22G, KD-CB22G, KD-CB31G	09/93	11/96	<b>CP-22 JPX-22</b>	19850-67030	4	11V	12V		
<b>HIJET</b>										
LDW12	1.2 D	05/95	03/98	<b>B-081</b>		4	11V	12V		
<b>RUGGER</b>										
DL DL50	N-F70, N-F70D, N-F70MD, N-F70V, N-F75V, MBGT	05/84		<b>PD-190</b>	19850-87701	4	7V	12V		
<b>TAFT</b>										
DG	F50, K-F50	08/78	11/82	<b>PT-104</b>	19850-87309	4	8.5V	12V		
DL	N-F60	12/82	04/84	<b>PD-190</b>	19850-87701	4	7V	12V		

**DALLAS****FUN**

161 (XUD7)	1.8 D	01/94	12/98	<b>B-081</b>		4	11V	12V		
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**DODGE****AVENGER**

ECD	2.0 CRD	06/07		<b>PM-406</b>	68021306AA 68021306AB		7V			
	2.0 CRD	06/07	11/10	<b>PM-405</b>		4	4.4V	12V		

**CALIBER**

ECD	2.0 CRD	09/06	05/11	<b>PM-405</b>		4	4.4V	12V		
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**CARAVAN**

ENC	2.5 TD	01/95	04/95	<b>B-081</b>		4	11V	12V		
	2.5 TD	05/95	10/02	<b>B-086</b>		4	11V	12V		

**JOURNEY**

	2.0 CRD	2008		<b>PM-406</b>	68021306AA 68021306AB		7V			
ECE	2.0 CRD	06/08	05/11	<b>PM-405</b>		4	4.4V	12V		





ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**DS****DS3**

BHW (DV6FE)	1.6 BlueHDi 75	07/15		<b>PZ-711</b>		4	5V	12V
BHY (DV6FD)	1.6 BlueHDi 100	04/15		<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	1.6 BlueHDi 120	07/15		<b>PZ-711</b>		4	5V	12V

**DS4**

AHR (DW10FD)	Crossback, 2.0 BlueHDi 150	07/15		<b>PZ-711</b>		4	5V	12V
AHW (DW10FC)	Crossback, 2.0 BlueHDi 180	07/15		<b>PZ-711</b>		4	5V	12V
BHY (DV6FD)	Crossback, 1.6 BlueHDi 100	04/16		<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	Crossback, 1.6 BlueHDi 120	07/15		<b>PZ-711</b>		4	5V	12V

**DS5**

AHR (DW10FD)	2.0 BlueHDi 150	04/15		<b>PZ-711</b>		4	5V	12V
AHW (DW10FC)	2.0 BlueHDi 180	04/15		<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	1.6 BlueHDi 120	06/15		<b>PZ-711</b>		4	5V	12V
RHC (DW10CTED4)	2.0 Hybrid4 4x4	04/15		<b>PZ-711</b>		4	5V	12V

**FIAT****127**

127 A5.000	1.3 D	06/81	12/86	<b>B-081</b>		4	11V	12V
	1.3 Diesel	04/81	12/86	<b>B-081</b>		4	11V	12V

**131**

8144.61	2.5 D	06/78	02/84	<b>B-081</b>		4	11V	12V
	2.5 Super Diesel	03/79	12/84	<b>B-081</b>		4	11V	12V
8144.65	2.0 D	03/78	03/87	<b>B-081</b>		4	11V	12V

**132**

8144.61	2.5 D	07/78	07/82	<b>B-081</b>		4	11V	12V
8144.65	2.0 D	07/78	07/82	<b>B-081</b>		4	11V	12V

**147**

127 A5.000	1.3 D	07/82	06/84	<b>B-081</b>		4	11V	12V
	1.3 D	10/80	10/95	<b>B-081</b>		4	11V	12V

**500**

169 A1.000	C, 1.3 D Multijet (312AXB1A)	10/07		<b>B-122</b>	46796050	4	11V	12V
	C, 1.3 D Multijet (312CXB1A)	09/09		<b>B-122</b>	46796050	4	11V	12V

**242-SERIE**

B 25.637	2.5 D	08/80	07/82	<b>B-081</b>		4	11V	12V
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**500L**

199 B5.000, 940 C1.000, 955 A3.000	1.6 D Multijet	09/12		<b>B-135</b>		4	4.4V	12V
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**500X**

55260384	1.6 D Multijet (334AXA1B)	09/14		<b>B-135</b>		4	4.4V	12V
	1.6 D Multijet (334AXA1B, 334AXA11)	09/14		<b>B-135</b>		4	4.4V	12V
55263087, 55263088	2.0 D Multijet 4x4 (334AXB22, 334AXD2B)	09/14		<b>B-135</b>		4	4.4V	12V

**ALBEA / SIENA**

188 A9.000	1.3 JTD	09/03	12/09	<b>B-122</b>	46796050	4	11V	12V
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**ARGENTA**

8144.61	2500 Diesel	06/81	11/85	<b>B-081</b>		4	11V	12V
8144.61.500.81	2500 Turbodiesel	07/83	08/85	<b>B-081</b>		4	11V	12V

**BRAVA**

160 A7.000	1.9 D	10/95	03/96	<b>B-081</b>		4	11V	12V
182 A7.000	1.9 TD 100 S	03/96	10/01	<b>B-084</b>		4	11V	12V
182 A8.000	1.9 TD 75 S	03/96	10/01	<b>B-084</b>		4	11V	12V
182 B4.000	1.9 JTD 105	12/98	10/99	<b>B-108</b>		4	11V	12V
	1.9 JTD 105	11/99	10/01	<b>B-109</b>		4	11V	12V
182 B9.000	1.9 JTD	09/00	10/01	<b>B-109</b>		4	11V	12V

**BRAVO I**

160 A7.000	1.9 D	10/95	03/96	<b>B-081</b>		4	11V	12V
182 A7.000	1.9 TD 100 S	03/96	10/01	<b>B-084</b>		4	11V	12V
182 A8.000	1.9 TD 75 S	03/96	10/01	<b>B-084</b>		4	11V	12V
182 B4.000	1.9 JTD 105	12/98	10/99	<b>B-108</b>		4	11V	12V
	1.9 JTD 105	11/99	10/01	<b>B-109</b>		4	11V	12V
182 B9.000	1.9 JTD	09/00	10/01	<b>B-109</b>		4	11V	12V

ENGINE	MODEL	M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>FIAT</b>								
<b>BRAVO II</b>								
198 A2.000, 198 A3.000, 198 A6.000, 844 A3.000	1.6 D Multijet	03/08	12/14	<b>B-135</b>		4	4.4V	12V
198 A5.000, 198 A8.000, 844 A2.000	2.0 D Multijet	09/08	12/14	<b>B-135</b>		4	4.4V	12V
937 A5.000	1.9 D Multijet	04/07	12/14	<b>B-125</b>		4	11V	12V
<b>CAMPAGNOLA</b>								
8144.61.200	2.4 D	06/74	10/89	<b>B-081</b>		4	11V	12V
<b>CROMA</b>								
8144.67	2500 D	12/85	12/89	<b>B-081</b>		4	11V	12V
8144.91.2000, 8144.97.2400, 8144.97	2500 TD	12/85	12/93	<b>B-081</b>		4	11V	12V
8144.97 S	2500 TDE	12/91	08/96	<b>B-081</b>		4	11V	12V
939 A2.000	1.9 D Multijet	06/05	12/11	<b>B-125</b>		4	11V	12V
939 A3.000	2.4 D Multijet	06/05		<b>B-125</b>		5	11V	12V
939 A7.000	1.9 D Multijet	06/05		<b>B-109</b>		4	11V	12V
<b>DOBLO</b>								
182 B9.000, 223 A7.000, 223 B1.000, 223 B2.000	1.9 JTD	10/01		<b>B-109</b>		4	11V	12V
188 A8.000, 188 A9.000	1.3 JTD 16V	05/04	12/06	<b>B-122</b>	46796050	4	11V	12V
198 A3.000, 263 A3.000, 263 A4.000, 263 A5.000, 263 A8.000, 263 A9.000	1.6 D Multijet	02/10		<b>B-135</b>		4	4.4V	12V
198 A3.000, 263 A8.000	1.6 D Multijet (263AXD1B)	01/10		<b>B-135</b>		4	4.4V	12V
199 A2.000	1.3 JTD	05/05		<b>B-122</b>	46796050	4	11V	12V
199 A2.000, 223 A9.000	1.3 D Multijet	10/05		<b>B-122</b>	46796050	4	11V	12V
199 A3.000, 263 A2.000	1.3 D Multijet	02/10		<b>B-122</b>	46796050	4	11V	12V
	1.3 D Multijet (263AXC1A)	02/10		<b>B-122</b>	46796050	4	11V	12V
223 A6.000	1.9 D	03/01		<b>B-119</b>		4	11V	12V
263 A1.000	2.0 D Multijet	01/10		<b>B-135</b>		4	4.4V	12V
263 A4.000	1.6 D Multijet (263AXH1A, 263AXL11, 263AXH1B)	02/10		<b>B-135</b>		4	4.4V	12V
<b>DUCATO</b>								
8140.27	290, 2.5 TD	06/90	05/94	<b>B-081</b>		4	11V	12V
	290, 2.5 TD 4x4	07/90	03/94	<b>B-081</b>		4	11V	12V
8140.43	230, 2.8 TDI	10/97	04/02	<b>B-097</b>		4	11V	12V
	230, 2.8 TDI 4x4	06/99	04/02	<b>B-097</b>		4	11V	12V
8140.63	230, 2.8 D	02/98	04/02	<b>B-097</b>		4	11V	12V
	230, 2.8 D 4x4	08/98	04/02	<b>B-097</b>		4	11V	12V
	230, 2.8 TD 4x4	05/98	11/01	<b>B-097</b>		4	11V	12V
8140.67	230, 2.5 D	03/94	04/02	<b>B-072</b>		4	11.5V	12V
	230, 2.5 D 4x4	03/94	04/02	<b>B-072</b>		4	11.5V	12V
	230, 2.5 D Combinato	08/94	04/02	<b>B-072</b>		4	11.5V	12V
8144.21	280, 2.5 TD 4x4	01/86	08/90	<b>B-081</b>		4	11V	12V
8144.61	280, 2.4 D	01/82	08/90	<b>B-081</b>		4	11V	12V
8144.67	280, 2.5 D 4x4	01/87	08/90	<b>B-081</b>		4	11V	12V
	290, 2.5 D	03/89	03/94	<b>B-081</b>		4	11V	12V
	290, 2.5 D 4x4	07/90	03/94	<b>B-081</b>		4	11V	12V
149 B1.000	280, 1.9 D	02/87	08/90	<b>B-081</b>		4	11V	12V
	290, 1.9 D	07/90	03/94	<b>B-081</b>		4	11V	12V
230 A2.000	230, 1.9 D	03/94	04/02	<b>B-081</b>		4	11V	12V
	230, 1.9 D Combinato	06/95	04/02	<b>B-081</b>		4	11V	12V
230 A3.000	230, 1.9 TD Panorama/Combinato	03/94	04/02	<b>B-081</b>		4	11V	12V
230 A3.000, DHX (XUD9TF/L)	230, 1.9 TD	03/94	04/02	<b>B-081</b>		4	11V	12V
230 A4.000	230, 1.9 TD CAT	08/94	04/02	<b>B-081</b>		4	11V	12V
	230, 1.9 TD Combinato	08/94	04/02	<b>B-081</b>		4	11V	12V
250 A1.000, 250 A2.000	250, 290, 2.0 D Multijet 115	06/11		<b>B-135</b>		4	4.4V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## FIAT

## DUCATO

280 A1.000	280, 1.9 TD	03/89	08/90	<b>B-081</b>		4	11V	12V
	290, 1.9 TD	03/89	03/94	<b>B-081</b>		4	11V	12V
4HV (P22DTE)	250, 290, 2.2 D Multijet 100	07/06		<b>B-101</b>		4	11.5V	12V
8140.43N	244, 2.8 JTD Power	05/04		<b>B-097</b>		4	11V	12V
8140.43N, 8140.43S	244, 2.8 JTD	04/02		<b>B-097</b>		4	11V	12V
8140.43S	230, 2.8 JTD	11/00	04/02	<b>B-097</b>		4	11V	12V
	230, 2.8 JTD 4x4	11/00	04/02	<b>B-097</b>		4	11V	12V
8140.43S	244, 2.8 JTD 4x4	07/02		<b>B-097</b>		4	11V	12V
8144.21.220, 8144.21	280, 2.5 TD	01/86	08/90	<b>B-081</b>		4	11V	12V
8144.67, CRD93L (U25-661)	280, 2.5 D	01/86	08/90	<b>B-081</b>		4	11V	12V
D9B (XUD9A), D9B, DJY	230, 1.9 D	04/98	04/02	<b>B-087</b>		4	11V	12V
F1AE0481C	244, 2.3 JTD	04/02		<b>PM-403</b>		4	11V	12V
F1AE0481D	250, 290, 2.3 D Multijet 120 4x4	03/10		<b>PM-403</b>		4	11V	12V
F1AE0481D, FPT	250, 290, 2.3 D Multijet 120	07/06		<b>PM-403</b>		4	11V	12V
F1AE0481N, F1AE0481T, F1AE3481D, F1AGL411D, F1AGL411M	250, 290, 2.3 D Multijet 130	08/06		<b>PM-403</b>		4	11V	12V
F1AE3481D	250, 290, 2.3 D Multijet 130	07/06		<b>PM-403</b>		4	11V	12V
F1AE3481E	250, 290, 2.3 D Multijet 150	06/11		<b>PM-403</b>		4	11V	12V
F1AE3481G	250, 290, 2.3 D Multijet 110	10/11		<b>PM-403</b>		4	11V	12V
F1CE0481D, F1CE3481M	250, 290, 3.0 D Multijet 160	07/06		<b>PM-403</b>		4	11V	12V
F1CE3481E	250, 290, 3.0 D Multijet 180	06/11		<b>PM-403</b>		4	11V	12V
F1CE3481N	250, 290, 3.0 D Multijet 150	04/10		<b>PM-403</b>		4	11V	12V
RHV (DW10)	230, 2.0 JTD	07/01	04/02	<b>B-089</b>		4	11V	12V
	244, 2.0 JTD	04/02		<b>B-089</b>		4	11V	12V

## DUNA

146 B2.000, 149 B3.000	1.7 DS	01/87	12/91	<b>B-081</b>		4	11V	12V
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## ELBA

146 B2.000	1.7 D	04/89	12/96	<b>B-081</b>		4	11V	12V
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## FIORINO

127 A5.000	1.3 D	03/82	01/88	<b>B-081</b>		4	11V	12V
	1.3 D	05/84	12/88	<b>B-081</b>		4	11V	12V
146 B2.000, 149 B3.000	1.7 D	05/88	10/99	<b>B-081</b>		4	11V	12V
	1.7 D 60	05/88	05/00	<b>B-081</b>		4	11V	12V
146 D7.000	1.7 TD	01/97	05/01	<b>B-081</b>		4	11V	12V
	1.7 TD 65	01/97	05/01	<b>B-081</b>		4	11V	12V
199 A2.000, 199 A9.000	1.3 D Multijet (225BXD1A, 225BXB1A, 225BXB11)	11/07		<b>B-122</b>	46796050	4	11V	12V

## FREEMONT

939 B5.000, 940 A5.000	2.0 JTD	08/11		<b>B-135</b>		4	4.4V	12V
	2.0 JTD 4x4	08/11		<b>B-135</b>		4	4.4V	12V

## FULLBACK










4N15	2.4 D	01/16		<b>CP-08</b>	1607849980, 1820-A019, GN123	4	11V	12V
	2.4 D 4x4	01/16		<b>CP-08</b>	1607849980, 1820-A019, GN123	4	11V	12V

## Grande PUNTO

199 A2.000, 199 A3.000, 199 A9.000	1.3 D Multijet	10/05		<b>B-122</b>	46796050	4	11V	12V
199 A5.000, 939 A1.000, 939 A7.000	1.9 D Multijet	10/05		<b>B-109</b>		4	11V	12V
955 A3.000	1.6 D Multijet	07/08		<b>B-135</b>		4	4.4V	12V

## IDEA

188 A9.000, 199 A3.000, 199 B1.000	1.3 D Multijet	01/04	12/10	<b>B-122</b>	46796050	4	11V	12V
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 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>FIAT</b>																	
<b>IDEA</b>																	
188 B2.000	1.9 JTD	01/04		<b>B-109</b>		4	11V	12V									
350 A2.000	1.6 D Multijet	05/08		<b>B-135</b>		4	4.4V	12V									
<b>LINEA</b>																	
198 A3.000	1.6 D Multijet	06/09		<b>B-135</b>		4	4.4V	12V									
199 A3.000	1.3 D Multijet	06/07		<b>B-122</b>	46796050	4	11V	12V									
<b>MAREA</b>																	
182 A7.000, 182 B9.000	1.9 TD 100	05/96	06/03	<b>B-084</b>		4	11V	12V									
182 A8.000	1.9 TD 75	09/96	05/02	<b>B-084</b>		4	11V	12V									
182 B4.000	1.9 JTD 105	11/99	12/02	<b>B-109</b>		4	11V	12V									
	1.9 JTD 105	12/98	10/99	<b>B-108</b>		4	11V	12V									
185 A2.000	2.4 TD 125	09/96	04/99	<b>B-084</b>		5	11V	12V									
185 A6.000, 839 A5.000	2.4 JTD 130	04/99	10/99	<b>B-108</b>		5	11V	12V									
	2.4 JTD 130	11/99	05/02	<b>B-109</b>		5	11V	12V									
186 A6.000	1.9 JTD 110	09/00	08/02	<b>B-109</b>		4	11V	12V									
<b>MULTIPLA</b>																	
182 B4.000	1.9 JTD 105	04/99	10/99	<b>B-108</b>		4	11V	12V									
	1.9 JTD 105	11/99	06/10	<b>B-109</b>		4	11V	12V									
186 A6.000	1.9 JTD 110	03/01	07/02	<b>B-109</b>		4	11V	12V									
186 A8.000	1.9 JTD 115	07/02	06/10	<b>B-109</b>		4	11V	12V									
186 A9.000	1.9 JTD	04/02	06/10	<b>B-109</b>		4	11V	12V									
<b>PALIO</b>																	
176 A3.000	1.7 TD	04/96	03/01	<b>B-081</b>		4	11V	12V									
188 A9.000	1.3 JTD Multijet	06/03	12/10	<b>B-122</b>	46796050	4	11V	12V									
223 A6.000	1.9 D	03/01		<b>B-119</b>		4	11V	12V									
<b>PANDA</b>																	
156 A5.000	1300 D	04/86	12/92	<b>B-081</b>		4	11V	12V									
169 A1.000, 169 A5.000, 188 A8.000	1.3 D Multijet	09/03		<b>B-122</b>	46796050	4	11V	12V									
	1.3 D Multijet 4x4	10/04		<b>B-122</b>	46796050	4	11V	12V									
<b>PUNTO</b>																	
176 A3.000, 176 A5.000, 176 B7.000	1.7 TD	01/94	02/00	<b>B-081</b>		4	11V	12V									
176 B3.000	1.7 D	04/94	02/00	<b>B-081</b>		4	11V	12V									
188 A2.000	1.9 JTD 80	09/99	03/12	<b>B-109</b>		4	11V	12V									
188 A3.000	1.9 D 60	02/00	10/09	<b>B-119</b>		4	11V	12V									
	1.9 DS 60	09/99	03/12	<b>B-119</b>		4	11V	12V									
188 A7.000, 188 B2.000	1.9 JTD	02/00	03/12	<b>B-109</b>		4	11V	12V									
188 A9.000	1.3 JTD	06/03	10/05	<b>B-122</b>	46796050	4	11V	12V									
	1.3 JTD 16V	06/03	03/12	<b>B-122</b>	46796050	4	11V	12V									
199 A2.000, 199 A9.000, 199 B1.000, 199 B8.000, 330 A1.000, 955 B2.000	1.3 D Multijet	03/12		<b>B-122</b>	46796050	4	11V	12V									
<b>PUNTO Evo</b>																	
199 A2.000, 199 A3.000, 199 A9.000, 199 B1.000, 199 B2.000	1.3 D Multijet	07/08	02/12	<b>B-122</b>	46796050	4	11V	12V									
955 A3.000	1.6 D Multijet	10/09	02/12	<b>B-135</b>		4	4.4V	12V									
<b>QUBO</b>																	
199 A2.000, 199 A9.000	1.3 D Multijet (225CXB1A, 225AXB1A, 225CXB11, 225AXB11,...)	02/08		<b>B-122</b>	46796050	4	11V	12V									
	1.3 D Multijet	01/09		<b>B-122</b>	46796050	4	11V	12V									
<b>REGATA</b>																	
138 B6.000, 149 B3.000	1.7 D 60	09/83	12/89	<b>B-081</b>		4	11V	12V									
149 A1.000	1.9 D 65	04/84	07/89	<b>B-081</b>		4	11V	12V									
831 D1.000	1.9 TD 80	05/86	07/89	<b>B-081</b>		4	11V	12V									
<b>RITMO</b>																	
138 A5.000	1.7 Diesel	10/79	09/82	<b>B-081</b>		4	11V	12V									
138 C.000, 149 B3.000	1.7 Diesel	05/85	12/87	<b>B-081</b>		4	11V	12V									
831 D1.000	1.9 TD	12/85	12/87	<b>B-081</b>		4	11V	12V									

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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## FIAT

### SCUDO

9H07 (DV6UC), 9HM (DV6UC)	270, 1.6 D Multijet	02/11		<b>PZ-711</b>		4	5V	12V
9HU	270, 1.6 D Multijet	01/07		<b>B-123</b>		4	11V	12V
D8B, DHX (XUD9TF/L)	220, 1.9 TD	02/96	12/06	<b>B-081</b>		4	11V	12V
D9B	220, 1.9 D	02/96	12/06	<b>B-081</b>		4	11V	12V
DHX (XUD9TF/L)	220, 1.9 TD Eco	02/96	12/06	<b>B-081</b>		4	11V	12V
DW10BTED4, RH02, RHH, RHK, RHR	270, 2.0 D Multijet	01/07		<b>B-131</b>		4	11V	12V
RHK (DW10UTED4), RHM (DW10ATED4), RHW (DW10ATED4)	220, 2.0 JTD 16V	05/99	12/03	<b>B-131</b>		4	11V	12V
	220, 2.0 JTD 16V	01/04	12/06	<b>B-089</b>		4	11V	12V
RHK, RHR	270, 2.0 D Multijet	01/07		<b>B-089</b>		4	11V	12V
RHX	220, 2.0 JTD	01/04	12/06	<b>B-089</b>		4	11V	12V
RHX, RHZ	220, 2.0 JTD	10/99	12/06	<b>B-089</b>		4	11V	12V
WJY (DW8B), WJZ (DW8)	220, 1.9 D	04/98	12/06	<b>B-087</b>		4	11V	12V

### SEDICI

D20AA	2.0 D Multijet	06/06	10/14	<b>B-135</b>		4	4.4V	12V
	2.0 D Multijet 4x4	06/06	10/14	<b>B-135</b>		4	4.4V	12V

### STILO

192 A1.000, 192 A3.000, 192 B5.000, 937 A7.000	1.9 JTD	10/01	08/08	<b>B-109</b>		4	11V	12V
192 A5.000	1.9 JTD	01/04	08/08	<b>B-125</b>		4	11V	12V
192 A9.000	1.9 D Multijet	09/05	08/08	<b>B-109</b>		4	11V	12V
192 B1.000, 937 A4.000	1.9 JTD	09/03	08/08	<b>B-125</b>		4	11V	12V
937 A5.000	1.9 D Multijet	09/05	08/08	<b>B-125</b>		4	11V	12V

### STRADA

176 A3.000	1.7 TD	06/99	12/06	<b>B-081</b>		4	11V	12V
188 A2.000	1.9 JTD	04/03		<b>B-109</b>		4	11V	12V
199 B1.000	1.3 D Multijet	10/10		<b>B-122</b>	46796050	4	11V	12V
223 A6.000	1.9 D	12/00		<b>B-119</b>		4	11V	12V
223 A9.000	1.3 D Multijet	05/06		<b>B-122</b>	46796050	4	11V	12V

### TALENTO

149 B1.000	290, 1.9 D	03/89	03/94	<b>B-081</b>		4	11V	12V
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### TEMPRA

160 A6.000, 160 B6.046, 160 D1.000	1.9 TD	05/90	08/96	<b>B-081</b>		4	11V	12V
160 A7.000	1.9 D	07/91	08/96	<b>B-081</b>		4	11V	12V

### TIPO

149 B4.000	160, 1.7 D	01/88	10/94	<b>B-081</b>		4	11V	12V
	160, 1.7 D	01/88	10/95	<b>B-081</b>		4	11V	12V
160 A6.000, 160 A6.046, 160 D1.000	160, 1.9 TD	09/90	04/95	<b>B-081</b>		4	11V	12V
160 B6.046	160, 1.9 TD	03/92	06/93	<b>B-081</b>		4	11V	12V
940 C1.000, 55260384, 55280444	356, 1.6 D	10/15		<b>B-135</b>	55200755	4	4.4V	12V

### ULYSSE

4HW (DW12ATED4)	2.2 JTD	08/02	05/03	<b>B-089</b>		4	11V	12V
	2.2 JTD	06/03	08/06	<b>B-131</b>		4	11V	12V
DHX (XUD9TF/L)	1.9 TD	02/95	08/02	<b>B-081</b>		4	11V	12V
P8C	2.1 TD	03/96	10/99	<b>B-081</b>		4	11V	12V
RHK, RHR	2.0 D Multijet	05/06	06/11	<b>B-089</b>	9651029780	4	11V	12V
	2.0 D Multijet	05/06	06/11	<b>B-131</b>	9651583680	4	11V	12V
RHM (DW10ATED4), RHW (DW10ATED4)	2.0 JTD	08/02	08/06	<b>B-089</b>		4	11V	12V
RHW (DW10ATED4)	2.0 JTD 16V	05/99	08/02	<b>B-089</b>		4	11V	12V
RHZ	2.0 JTD	10/99	08/02	<b>B-089</b>		4	11V	12V

### UNO

127 A5.000, 146 B1.000	146, 1.3 Super Diesel	06/83	03/92	<b>B-081</b>		4	11V	12V
146 B.000, 146 B3.000	146, 1.4 TD 70	10/86	10/90	<b>B-081</b>		4	11V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**FIAT****UNO**

146 B2.000, 149 B3.000	146, 1.7 D 60	07/86	12/93	<b>B-081</b>		4	11V	12V
149 B5.046	146, 1.9 D	09/89	03/94	<b>B-081</b>		4	11V	12V

**FORD****B-MAX**

T3JB	1.6 TDCi	10/12		<b>PZ-711</b>		4	5V	12V
UGJC, UGJG, XUJA, XUJB	1.5 TDCi	10/12		<b>PZ-711</b>		4	5V	12V

**C-MAX I**

G6DA, G6DB, G6DD, G6DG	2.0 TDCi	02/07	09/10	<b>B-131</b>		4	11V	12V
G6DC, G6DE, G6DF, IXDA	2.0 TDCi	02/07	08/10	<b>B-131</b>		4	11V	12V
G8DA, G8DB, G8DC, G8DD, GPDA, HHDA, HHDB, MTDA	1.6 TDCi	02/07	09/10	<b>B-123</b>		4	11V	12V
G8DC, MTDA	1.6 TDCi	08/10	09/10	<b>PZ-711</b>		4	5V	12V
KKDA	1.8 TDCi	02/07	09/10	<b>B-105</b>		4	10V	12V

**C-MAX II**

AEDA	1.5 TDCi ECONetic	03/15		<b>PZ-711</b>		4	5V	12V
T1DA, T1DB	1.6 TDCi	12/10		<b>PZ-711</b>		4	5V	12V
T1DA, T1DB, T3DA, T3DB	1.6 TDCi	12/10		<b>PZ-711</b>		4	5V	12V
T7DB, T8DE, TXDB, TYDA	2.0 TDCi	12/10		<b>PZ-711</b>		4	5V	12V
TXDB, TYDA, UFDB, UKDB	2.0 TDCi	04/10		<b>PZ-711</b>		4	5V	12V
XWDA, XWDB, XWDC, XWDD, XWDE, XXDA	1.5 TDCi	03/15		<b>PZ-711</b>		4	5V	12V

**ECONOVAN**

RF	2.0 D	03/86	03/92	<b>PZ-33</b>		4	10.5V	12V
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**ECOSPORT**

UGJE	1.5 TDCi	10/13		<b>PZ-711</b>		4	5V	12V
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**ESCORT III**

LTA	1.6 D	02/84	02/86	<b>B-053</b>		4	11.5V	12V
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**ESCORT IV**

LTA, LTC	1.6 D	01/86	07/90	<b>B-053</b>		4	11.5V	12V
RTA, RTB	1.8 D	07/88	07/90	<b>B-072</b>		4	11.5V	12V

**ESCORT V**

RFD, RFK, RFS	1.8 TD	02/93	01/95	<b>B-072</b>		4	11.5V	12V
RTA, RTE, RTF, RTH	1.8 D	07/90	01/95	<b>B-072</b>		4	11.5V	12V

**ESCORT VI**

RFD, RFK, RFS	1.8 TD	01/95	08/00	<b>B-072</b>		4	11.5V	12V
RTE, RTF, RTH	1.8 D	01/95	08/00	<b>B-072</b>		4	11.5V	12V
RVA	1.8 Turbo D	12/95	06/01	<b>B-088</b>		4	10V	12V

**FESTIVA**

1.8L DiTD	LTX 5 door	03/96		<b>PZ-703</b>	IE07-18-601		11.5V	
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**FIESTA II**

LTB	1.6 D	04/84	02/89	<b>B-053</b>		4	11.5V	12V
RTC, RTD, RTG	1.8 D	03/89	12/95	<b>B-072</b>		4	11.5V	12V

**FIESTA III**










RTC, RTD, RTG	1.8 D	03/89	02/96	<b>B-072</b>		4	11.5V	12V
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**FIESTA IV**

RTJ, RTK	1.8 D	08/95	04/02	<b>B-088</b>		4	10V	12V
RTN, RTP, RTQ	1.8 DI	04/00	08/03	<b>B-088</b>		4	10V	12V
	1.8 TD	03/00	08/03	<b>B-105</b>		4	10V	12V

**FIESTA V**

F6JA	1.4 TDCi	10/03	11/04	<b>B-106</b>		4	11V	12V
F6JA, F6JB	1.4 TDCi	11/01	11/04	<b>B-106</b>		4	11V	12V
	1.4 TDCi	11/04	06/08	<b>B-123</b>		4	11V	12V
F6JB	1.4 TDCi	11/04	12/10	<b>B-123</b>		4	11V	12V
HHJA	1.6 TDCi	11/04	06/07	<b>B-106</b>		4	11V	12V
HHJB	1.6 TDCi	06/07	06/08	<b>B-123</b>		4	11V	12V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
<b>FORD</b>								
<b>FIESTA VI</b>								
F6JB, F6JD, KVJA	1.4 TDCi	01/09		<b>B-123</b>		4	11V	12V
HHJC, HHJD, HHJE, HHJF, T3JA, TZJA, TZJB, UBJA	1.6 TDCi	06/08		<b>B-123</b>		4	11V	12V
UGJC, XUJA, XUJB	1.5 TDCi	09/12		<b>PZ-711</b>		4	5V	12V
<b>FOCUS C-MAX</b>								
G6DA, G6DB, G6DD	2.0 TDCi	10/03	03/07	<b>B-131</b>	100226492	4	11V	
G8DA, G8DB	1.6 TDCi	10/03	02/06	<b>B-106</b>		4	11V	12V
	1.6 TDCi	02/06	03/07	<b>B-123</b>		4	11V	12V
HHDA, HHDB	1.6 TDCi	02/05	02/06	<b>B-106</b>		4	11V	12V
	1.6 TDCi	02/06	03/07	<b>B-123</b>		4	11V	12V
KKDA, KKDB	1.8 TDCi	01/05	03/07	<b>B-105</b>		4	10V	12V
<b>FOCUS I</b>								
BHDA, BHDB	1.8 DI / TDDi	08/99	11/04	<b>B-096</b>		4	11V	12V
	1.8 DI / TDDi	08/99	11/04	<b>B-105</b>		4	10V	12V
BHDA, BHDB, C9DA, C9DB, C9DC	1.8 Turbo DI / TDDi	10/98	03/05	<b>B-105</b>		4	10V	12V
F9DA, F9DB, FFDA	1.8 TDCi	03/01	11/04	<b>B-105</b>		4	10V	12V
<b>FOCUS II</b>								
G6DA, G6DB, G6DD, G6DG	2.0 TDCi	07/04	09/12	<b>B-131</b>		4	11V	12V
G6DE, G6DF, IXDA	2.0 TDCi	07/04	08/10	<b>B-131</b>		4	11V	12V
G8DA, G8DB, G8DC, G8DD, G8DE, G8DF, GPDA, GPDB, GPDC, HHDA, HHDB, MTDA	1.6 TDCi	07/04	02/06	<b>B-106</b>		4	11V	12V
	1.6 TDCi	02/06	09/12	<b>B-123</b>		4	11V	12V
KKDA	1.8 TDCi	07/04	09/12	<b>B-105</b>		4	10V	12V
<b>FOCUS III</b>								
NGDA, NGDB	1.6 TDCi ECONetic	05/12		<b>PZ-711</b>		4	5V	12V
T1DA, T1DB, T3DA, T3DB	1.6 TDCi	07/10		<b>PZ-711</b>		4	5V	12V
T7DB	2.0 TDCi	11/14		<b>PZ-711</b>		4	5V	12V
T8DA	2.0 TDCi ST	11/14		<b>PZ-711</b>		4	5V	12V
TXDB, TYDA, UFDB, UKDB	2.0 TDCi	07/10		<b>PZ-711</b>		4	5V	12V
XWDA, XWDB, XWDC, XWDD, XWDE, XXDA, XXDC	1.5 TDCi	09/14		<b>PZ-711</b>		4	5V	12V
XXDB	1.5 TDCi ECONetic	09/14		<b>PZ-711</b>		4	5V	12V
<b>FUSION</b>								
F6JA	1.4 TDCi	08/02	11/04	<b>B-106</b>		4	11V	12V
F6JB	1.4 TDCi	11/04	12/12	<b>B-123</b>		4	11V	12V
HHJA	1.6 TDCi	11/04	06/07	<b>B-106</b>		4	11V	12V
HHJB	1.6 TDCi	06/07	12/12	<b>B-123</b>		4	11V	12V
<b>GALAXY</b>								
1Z, AFN, AHU, ANU, AUY, AVG	1.9 TDI	03/95	10/01	<b>B-077</b>		4	11V	12V
1Z, AHU, ANU, ASZ, AUY, BTB	1.9 TDI	10/01	05/06	<b>B-086</b>		4	11V	12V
AZWA, QXWA, QXWB, QXWC	2.0 TDCi	05/06	06/15	<b>B-131</b>		4	11V	12V
AZWC	2.0 TDCi	05/06	06/15	<b>B-131</b>		4	11V	12V
FFWA, QYWA	1.8 TDCi	05/06	06/15	<b>B-105</b>		4	10V	12V
KLWA, TYWA	2.0 TDCi	11/07	06/15	<b>B-131</b>	1427905	4	11V	12V
KNWA, Q4WA	2.2 TDCi	03/08	06/15	<b>B-124</b>		4	11V	12V
T1WA, T1WB	1.6 TDCi	02/11	06/15	<b>PZ-711</b>		4	5V	12V
T7CI, T7CJ, T7CK, T7CL, T8CG, T8CH, T8CI, T8CJ, UFCA, UFCB	2.0 TDCi	01/15	06/18	<b>PZ-711</b>		4	5V	12V



ENGINE		MODEL		M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>FORD</b>										
<b>GALAXY</b>										
T9CB, T9CC	2.0 TDCi Bi-Turbo	01/15	06/18	<b>PZ-711</b>				4	5V	12V
TXWA, UKWA	2.0 TDCi	05/06	06/15	<b>PZ-711</b>				4	5V	12V
UFWA	2.0 TDCi	05/06	06/15	<b>PZ-711</b>				4	5V	12V
<b>GRANADA</b>										
STP	2.5 D	08/82	08/85	<b>B-081</b>				4	11V	12V
WTA	2.1 D	08/77	08/82	<b>B-081</b>				4	11V	12V
	1.9 D	08/77	08/82	<b>B-081</b>				4	11V	12V
<b>Grand C-MAX</b>										
T1DA, T1DB, T3DA, T3DB	1.6 TDCi	12/10		<b>PZ-711</b>				4	5V	12V
T7DB, T8DE, TXDB, TYDA	2.0 TDCi	12/10		<b>PZ-711</b>				4	5V	12V
TXDB, TYDA, UFDB, UKDB	2.0 TDCi	12/10		<b>PZ-711</b>				4	5V	12V
XWDA, XWDB, XWDD, XXDA, XXDC	1.5 TDCi	03/15		<b>PZ-711</b>				4	5V	12V
<b>KA</b>										
169A1000, BAAA, FD4	1.3 TDCi	10/08	11/10	<b>B-122</b>	1542845			4	11V	12V
<b>KUGA I</b>										
G6DG, TXDA, UFDA	2.0 TDCi 4x4	03/08	11/12	<b>B-131</b>				4	11V	12V
G6DG, UFDA	2.0 TDCi	03/08	11/12	<b>B-131</b>				4	11V	12V
<b>KUGA II</b>										
T7MA, T7MB, T8MA, T8MB, TXDA, TXMA, UFMA, UKMA	2.0 TDCi 4x4	03/13		<b>PZ-711</b>				4	5V	12V
T7MA, T7MB, UFMA, UKMA, XRMA, XRMB	2.0 TDCi	03/13		<b>PZ-711</b>				4	5V	12V
<b>MAVERICK</b>										
TD27, TD27E	2.7 TD	02/93	04/98	<b>CP-03</b>				4	11V	12V
<b>MONDEO I</b>										
RFM, RFN	1.8 TD	06/93	08/96	<b>B-072</b>				4	11.5V	12V
<b>MONDEO II</b>										
RFN	1.8 TD	08/96	09/00	<b>B-088</b>				4	10V	12V
<b>MONDEO III</b>										
D5BA, SDBA	2.0 16V DI / TDDi / TDCi	10/00	03/07	<b>B-101</b>				4	11.5V	12V
D6BA, HJBA, HJBB, HJBC	2.0 16V TDDi / TDCi	10/00	03/07	<b>B-101</b>				4	11.5V	12V
FMBA, N7BA	2.0 TDCi	10/01	03/07	<b>B-101</b>				4	11.5V	12V
QJBA, QJBB	2.2 TDCi	09/04	03/07	<b>B-101</b>				4	11.5V	12V
QJBC, QJBD	2.2 TDCi	09/04	03/07	<b>B-101</b>				4	11.5V	12V
<b>MONDEO IV</b>										
AZBA, KLBA, LPBA, QXBA, QXBB	2.0 TDCi	03/07	01/15	<b>B-131</b>				4	11V	12V
AZBC	2.0 TDCi	03/07	12/14	<b>B-131</b>				4	11V	12V
FFBA, KHBA, QYBA	1.8 TDCi	03/07	01/15	<b>B-105</b>				4	10V	12V
KNBA	2.2 TDCi	07/10	01/15	<b>PZ-711</b>				4	5V	12V
Q4BA	2.2 TDCi	03/08	04/10	<b>B-124</b>				4	11V	12V
T1BA, T1BB, T1BC	1.6 TDCi	02/11	01/15	<b>PZ-711</b>				4	5V	12V
	1.6 TDCi	12/10	01/15	<b>PZ-711</b>				4	5V	12V
TXBA, TXBB, UKBA	2.0 TDCi	03/07	01/15	<b>PZ-711</b>				4	5V	12V
TYBA, UFBA	2.0 TDCi	03/07	01/15	<b>PZ-711</b>				4	5V	12V
<b>MONDEO V</b>										
NGCA, U3CA	1.6 TDCi	09/14		<b>PZ-711</b>				4	5V	12V
T7CA, T7CC, T7CD, T7CE, T7CF, T7CN, T7CP, T7CQ, T8CA, T8CC, T8CD, T8CL	2.0 TDCi	09/14		<b>PZ-711</b>				4	5V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**FORD****MONDEO V**

T7CA, T7CC, T7CD, T7CE, T7CF, T7CN, T7CP, T7CQ, T8CC	2.0 TDCi 4x4	02/15		<b>PZ-711</b>		4	5V	12V
T9CA	2.0 TDCi Bi-Turbo	03/15		<b>PZ-711</b>		4	5V	12V
UGCC, XUCA	1.5 TDCi	03/15		<b>PZ-711</b>		4	5V	12V

**ORION I**

LTA	1.6 D	02/84	03/86	<b>B-053</b>		4	11.5V	12V
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**ORION II**

LTC	1.6 D	12/85	01/89	<b>B-053</b>		4	11.5V	12V
RTA, RTB	1.8 D	01/89	07/90	<b>B-072</b>		4	11.5V	12V

**ORION III**

RFD, RFK	1.8 TD	03/92	12/93	<b>B-072</b>		4	11.5V	12V
RTE, RTF, RTH	1.8 D	11/90	12/93	<b>B-072</b>		4	11.5V	12V

**P 100**

RFA	1.8 TD	10/87	12/92	<b>B-072</b>		4	11.5V	12V
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**RANGER**

D29UYT	2.9 D	06/99	02/02	<b>PZ-39</b>		4	11V	12V
ENSA, SA2R, SA2S, SA2W, SAFA	3.2 TDCi 4x4	04/11		<b>PZ-713</b>		5	4.4V	12V
GBVAJPF, GBVAJQJ, GBVAJQW	2.2 TDCi	04/11		<b>PZ-713</b>		4	4.4V	12V
GBVAJQJ, GBVAJQW	2.2 TDCi 4x4	04/11		<b>PZ-713</b>		4	4.4V	12V
WL	2.5 D	10/99	04/02	<b>PZ-39</b>		4	11V	12V
	2.5 D 4x4	10/99	04/02	<b>PZ-39</b>		4	11V	12V
WL-T	2.5 TD	04/02	06/06	<b>PZ-39</b>		4	11V	12V
	2.5 TD 4x4	10/99	06/06	<b>PZ-39</b>		4	11V	12V

**SCORPIO I**

SCB, SFA, SFB	2.5 TD	06/88	09/94	<b>B-081</b>		4	11V	12V
STR	2.5 D	12/85	12/94	<b>B-081</b>		4	11V	12V

**SCORPIO II**

SCC, VM	2.5 TD	10/94	08/98	<b>B-086</b>		4	11V	12V
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**SIERRA**

RFA, RFB, RFL	1.8 TD	08/88	02/93	<b>B-072</b>		4	11.5V	12V
YTR, YTT	2.3 D	01/87	02/93	<b>B-081</b>		4	11V	12V
YTT	2.3 D	08/82	12/86	<b>B-081</b>		4	11V	12V

**S-MAX**

AZWA, TXWA	2.0 TDCi	03/07	12/14	<b>B-131</b>		4	11V	12V
AZWC, QXWA, QXWB, QXWC, UFWA, UKWA	2.0 TDCi	05/06	06/10	<b>B-131</b>		4	11V	12V
FFWA, QYWA	1.8 TDCi	05/06	12/14	<b>B-105</b>		4	10V	12V
KLWA, TYWA	2.0 TDCi	11/07	12/14	<b>B-131</b>	1427905	4	11V	12V
KNWA, Q4WA	2.2 TDCi	03/08	12/14	<b>B-124</b>		4	11V	12V
T1WA, T1WB	1.6 TDCi	02/11	12/14	<b>PZ-711</b>		4	5V	12V

**TOURNEO Connect**










BHPA, P7PA, P7PB, R2PA	1.8 TDCi /TDDi /DI	06/02	12/13	<b>B-105</b>		4	10V	12V
HCPA, HCPB, P9PA, P9PB, P9PC, P9PD, R3PA, RWPA, RWPC, RWPD, RWPE, RWPF	1.8 TDCi	06/02	12/13	<b>B-105</b>		4	10V	12V
T1GA, TZGA, TZGB, UBGGA	1.6 TDCi	09/13		<b>PZ-711</b>		4	5V	12V










**TOURNEO Courier**

T3CA, T3CB, T3CC	1.6 TDCi	02/14		<b>PZ-711</b>		4	5V	12V
UGCA, UGCB, XUCC, XUCCD	1.5 TDCi	02/14		<b>PZ-711</b>		4	5V	12V

**TOURNEO Custom**

CVFF, CYF4, CYFF, DRF4, DRFF, DRFG	2.2 TDCi	04/12		<b>PZ-713</b>		4	4.4V	12V
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 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
<b>FORD</b>								
<b>TRANSIT</b>								
4AA	2.4 D	11/77	10/86	<b>B-080</b>		4	11V	12V
ABFA, D3FA, F3FA	2.0 DI	08/00	05/06	<b>B-101</b>		4	11.5V	12V
CV24, CVR5, CY24, CYR5	2.2 TDCi 4x4	08/13		<b>PZ-713</b>		4	4.4V	12V
CV24, CVR5, CYR5, DRR5, USR6, UYR6	2.2 TDCi RWD	08/13		<b>PZ-713</b>		4	4.4V	12V
CVF5, CY14, CYF5, CYFG, DRF5, DRFF, DRFG, USF6	2.2 TDCi	08/13		<b>PZ-713</b>		4	4.4V	12V
CVRA, CVRB, CVRC, CYRA, CYRB, DRRR, DRRB, DRRC, USRA, USRB	2.2 TDCi RWD	09/11	12/14	<b>PZ-713</b>		4	4.4V	12V
CYFA, CYFB, CYFC, CYFD, DRFA, DRFB, DRFC, DRFD, DRFE, P8FA, P8FB, PGFA, PGFB, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, UHFB, UHFC	2.2 TDCi	10/11	08/14	<b>PZ-713</b>		4	4.4V	12V
CYRB, CYRC	2.2 TDCi 4x4	10/11	08/14	<b>PZ-713</b>		4	4.4V	12V
D2FA, D2FB, D2FE, D4FA, F4FA	2.4 DI	01/00	05/06	<b>B-101</b>		4	11.5V	12V
D4FA, F4FA	2.4 DI RWD	01/00	05/06	<b>B-101</b>		4	11.5V	12V
DOFA, FXFA	2.4 TDE	07/01	05/06	<b>B-101</b>		4	11.5V	12V
FIFA	2.0 TDCi	08/02	05/06	<b>B-101</b>		4	11.5V	12V
H9FA	2.4 TDCi	03/04	05/06	<b>B-101</b>		4	11.5V	12V
H9FB	2.4 TDCi 4x4	11/06	08/14	<b>B-101</b>		4	11.5V	12V
H9FB, H9FD, JXFA, JXFC, PHFA, PHFC	2.4 TDCi RWD	04/06	08/14	<b>B-101</b>		4	11.5V	12V
H9FD, JXFA, JXFC, PHFA, PHFC	2.4 TDCi	04/06	08/14	<b>B-101</b>		4	11.5V	12V
P8FA, P8FB, PGFA, PGFB, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, UHFB, UHFC	2.2 TDCi	04/06	10/11	<b>B-101</b>		4	11.5V	12V
SAFA, SAFB	3.2 TDCi	02/08	08/14	<b>B-101</b>		5	11.5V	12V
	3.2 TDCi RWD	09/07	08/14	<b>B-101</b>		5	11.5V	12V
USRA, USRB	2.2 TDCi RWD	09/11	10/11	<b>B-101</b>		4	11.5V	12V
<b>TRANSIT Connect</b>								
BHPA, P7PA, P7PB, R2PA	1.8 Di	06/02	12/13	<b>B-105</b>		4	10V	12V
HCPA, HCPB, P9PA, P9PB, P9PC, P9PD, R3PA, RWPA, RWPC, RWPD, RWPE, RWPF	1.8 TDCi	06/02	12/13	<b>B-105</b>		4	10V	12V
T1GA, TZGA, TZGB, UBGA	1.6 TDCi	02/13		<b>PZ-711</b>		4	5V	12V
UBGA	1.6 TDCi	02/13		<b>PZ-711</b>		4	5V	12V
<b>TRANSIT Courier</b>								
T3CA, T3CB, T3CC	1.6 TDCi	02/14		<b>PZ-711</b>		4	5V	12V
UGCA, UGCB, XUCC, XUCD, XWCA, XWCB	1.5 TDCi	02/14		<b>PZ-711</b>		4	5V	12V
<b>TRANSIT Custom</b>								
CVFF, CYF4, CYFF, DRF4, DRFF, DRFG	2.2 TDCi	04/12		<b>PZ-713</b>		4	4.4V	12V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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## FORD

### TRANSIT Tourneo

PGFA, PGFB, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, UHFB, UHFC	2.2 TDCi	07/06	08/14	<b>B-101</b>		4	11.5V	12V
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## FSO

### POLONEZ II

XUD 9A	1.9 D	12/91	08/92	<b>B-081</b>		4	11V	12V
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### POLONEZ III

XUD 9A	1.9 D	09/92	03/02	<b>B-081</b>		4	11V	12V
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## GAZ

### GAZELLE

ZMZ- 20ZLT	270532213302, 2.5 D	10/93	08/01	<b>B-077</b>		4	11V	12V
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## HINO

### DUTRO

J05C	KK-XZU420	05/99		<b>PH-26</b>	19110-1220 067100-1830	4	23V	24V
S05C	KK-XZU347	05/99		<b>PH-26</b>	19110-1220 067100-1830	4	23V	24V
S05D	KK-XZU301, KK-XZU306, KK-XZU321, KK-XZU411	05/99		<b>PH-26</b>	19110-1220 067100-1830	4	23V	24V

### RAINBOW / BUS

DK20	RC320	1970	1978	<b>PH-20</b>	6054330901 19110-1050	6	22.5V	24V
DM100	BM320	1970	1976	<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
DS140	RA900	1970		<b>PH-20</b>	6054330901 19110-1050	12	22.5V	24V
DS60	BT100	1970	1973	<b>PH-20</b>	6054330901 19110-1050	6	22.5V	24V
DS70	RD100, RD120	1970	1973	<b>PH-20</b>	6054330901 19110-1050	6	22.5V	24V
EB200	RE100, RE120, RE140	1970		<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
EB400	RE1014, RE161, K-RE121	1977		<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
EC100	AM100, RL100	1970	1979	<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
EH100	A-AM101	1988		<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
EH300	RD300, RL300, RL320	1975		<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
J05C	KC-RX4, KC-RH4	1995		<b>PH-26</b>	19110-1220	6	23V	24V

### RANGER

3B	K-HV48	1979	1982	<b>PT-101</b>	1985A56012	4	20.5V	24V
	N-HV40, N-HV42, N-HV47, N-HV48	1983		<b>PT-141</b>	1985A68060	4	14V	24V
B	HV10, HV11, K-HV10, K-HV11, K-HV12, K-HV17	1978	1982	<b>PT-94</b>	1985A56010	4	19V	24V
	N-HV10, N-HV11, N-HV12, N-HV13, N-HV15, N-HV99	1983		<b>PT-141</b>	1985A68060	4	14V	24V
DM100	KM300, KM310, KM320, KM330, KM340, KM350	1969		<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
DQ100	KM500, KM510, KM520, KM540, K-KM510, K-KM520, K-KM540, KQ320, KQ500, KQ520, KQ540, KQ560	1971		<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
EC100	K-FD124, KL300, KL321, KL340, KL350, KL360, KL380, WB310	1969		<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
EH100	KJ500, KL500, KL520, KL540, KL550, KL560, K-KL500, K-KL520, K-KL530, KR300, K-KR320, K-KR360, K-WB321, KU590, WB311, WB321	1972		<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
EH300	KJ501, KL501, KL521, KL541, KL561, KL581, KR301, KR321, KR361, KU581	1974		<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
EM100	FG22, SG22	1984	1986	<b>PH-25</b>	19110-1160	6	10.5V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**HINO****RANGER**

H06C	FE19, FF19, FG19, SG19	1984	1991	<b>PH-25</b>	19110-1160	6	10.5V	12V
H06C-TH	SG23	1987	1991	<b>PH-25</b>	19110-1160	6	10.5V	12V
H06C-TM	FF23, SG23	1992		<b>PH-25</b>	19110-1160	6	10.5V	12V
	SG3323, SG5523, SG1H, SG1HD	1993	1997	<b>PH-25</b>	19110-1160	6	10.5V	12V
H06C-TN	FE20, FD20, FF20, GC20, SG20	1992		<b>PH-25</b>	19110-1160	6	10.5V	12V
	FF3020, SG3320, FF4H, SG4H	1993	1997	<b>PH-25</b>	19110-1160	6	10.5V	12V
H06C-TP	FD2218, FE2618, FF3018, FD5H, FE5H, FF5H	1993	1997	<b>PH-25</b>	19110-1160	6	10.5V	12V
H07C	FD17, GC17, SF17, FE17, FF17	1984	1991	<b>PH-25</b>	19110-1160	6	10.5V	12V
J05C	KC-FB4	1995		<b>PH-26</b>	19110-1220	6	23V	24V

**TRUCK / DUMP TRUCK / CEMENT MIXER / TRACTOR / TRAILER / TANK TRUCK**

DK10	HE301, HH700, KA311, KF701, KF711, KF721, TC301, TC311, TC321, TC720, TC740, ZM701, ZM711, ZP100	1970	1972	<b>PH-20</b>	6054330901 19110-1051	6	22.5V	24V
DK20	BG100	1971	1976	<b>PH-20</b>	6054330901 19110-1051	6	22.5V	24V
DS50	ZH21	1970	1971	<b>PH-20</b>	6054330901 19110-1051	6	22.5V	24V
DS70	HC320, TE100, TE120	1970	1973	<b>PH-20</b>	6054330901 19110-1051	6	22.5V	24V
EB100	KB111, KB121, KB301, KB311, KB321, KB341, KB361, KB381, KB501, ZQ501, ZR100, ZS100, ZT100	1970		<b>PH-20</b>	6054330901 19110-1051	6	22.5V	24V
EB300	HE320, KB112, KB113, KB122, KB302, KB303, KB304, KB312, KB313, KB314, KB322, KB324, KB342, KB344, KB362, KB364, KB382, KB384, KB394, KB720, KB721, K-KB304, K-KB314, K-KB324, K-KB344, K-KB364, K-KB384, K-KB394, K-KB721, K-KB980, KH120, K-ZH100, K-ZR250, ZT300, ZT320, K-ZT320	1971		<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
EC100	HL300, KJ300	1970	1976	<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
EH100	HL500, KJ500, KU580, KU590	1973	1976	<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
EH300	KJ501, KU581, KU591	1974		<b>PH-21</b>	6301330010 19110-1040A	6	19V	24V
H06C H07C	P-FD160, P-FD170	1985		<b>PH-22</b>	19110-1140A	6	23V	24V

**UNIVERSAL**

DM100 EB300 EC100 EH100				<b>PH-21</b>	6301-330010 6301-330011 19110-1040	6	19V	24V
EB100 DK10 10T DS50 10T DS70				<b>PH-20</b>	6054-330901	6	22.5V	24V

**W4D**

W04C	FA14, FB14	1987	1991	<b>PH-25</b>	19110-1160	4	10.5V	12V
W04C-TH	FA15, FB15	1992		<b>PH-25</b>	19110-1160	4	10.5V	12V
W04D	P-FC142	1984		<b>PH-22</b>	19110-1140A	4	23V	24V
W06E	FD16, FE16	1986	1987	<b>PH-25</b>	19110-1160	6	10.5V	12V

**HONDA****ACCORD**

20TD	TCI-E	04/96		<b>B-085</b>	12291-P5T-G00 100-226-184	4	11V	12V
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**ACCORD V**

20T2N	2.0 TDi	04/96	10/98	<b>B-096</b>		4	11V	12V
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**ACCORD VI**










20T2N	2.0 TDi	12/99	10/00	<b>B-096</b>		4	11V	12V
	2.0 Turbo DI	02/99	12/02	<b>B-096</b>		4	11V	12V

**ACCORD VII**

N22A1	2.2 i-CTDi	01/04	05/08	<b>CP-53</b>		4	11V	12V
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**ACCORD VIII**

	CL, CM	01/04		<b>CP-53</b>	12291-RBD-E01 12291-RL0-G01	4	11V	12V
N22B1, N22B2	2.2 i-DTEC	07/08		<b>CP-53</b>		4	11V	12V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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## HONDA

### ACCORD VIII / Tourer

	CM	01/04		<b>CP-53</b>	12291-RBD-E01 12291-RL0-G01	4	11V	12V
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### CIVIC

1.7CTDi				<b>CP-51</b>	12291-PLZ-D00 (CZ-22)	4	11V	12V
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### CIVIC VI

20T2N	2.0 i D	04/98	02/01	<b>B-096</b>		4	11V	12V
	2.0 TDiC	11/98	10/00	<b>B-096</b>		4	11V	12V
20T2R	2.0 i TD	01/97	02/01	<b>B-096</b>		4	11V	12V

### CIVIC VI / Fastback

	MA	01/97	02/01	<b>CP-53</b>	12291-RBD-E01 12291-RL0-G01	4	11V	12V
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### CIVIC VIII / Hatchback

	FN, FK	01/06		<b>CP-53</b>	12291-RBD-E01 12291-RL0-G01	4	11V	12V
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### CIVIC IX

N16A1	1.6 i-DTEC	02/13		<b>CP-53</b>		4	11V	12V
N22B4	2.2 i-DTEC	02/12		<b>CP-53</b>		4	11V	12V

### CR-V II

	RD	02/05	09/06	<b>CP-53</b>	12291-RBD-E01 12291-RL0-G01	4	11V	12V
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### CR-V III

		01/07		<b>CP-53</b>	12291-RBD-E01 12291-RL0-G01	4	11V	12V
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### CR-V IV

N16A1	1.6 i-DTEC	10/13		<b>CP-53</b>		4	11V	12V
N16A4	1.6 i-DTEC 4WD	02/15		<b>CP-53</b>		4	11V	12V
N22B4	2.2 i-DTEC 4WD	10/12		<b>CP-53</b>		4	11V	12V

### FR-V

	BE	07/05		<b>CP-53</b>	12291-RBD-E01 12291-RL0-G01	4	11V	12V
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### HORIZON

4JG2	UBS69GWH	02/94		<b>PI-59</b>	ZA8-9704-4037	4	11V	12V
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### HR-V

	1.6 i-DTEC	08/15		<b>CP-53</b>		4	11V	12V
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### JAZZ

4JG2	UCS69DWH	10/93		<b>PI-59</b>	ZA8-9704-4037	4	11V	12V
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## HUMMER

### HUMMER H1

	6.5 D	01/92	09/97	<b>PA-306</b>		8	10.5V	12V
	6.5 Turbo D	01/92	12/04	<b>PA-306</b>		8	10.5V	12V

## HYUNDAI

### ACCENT 12V CRDi

D3EA		04/02		<b>B-110</b>	36710-27010	3	11V	12V
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### ACCENT III (MC) / ACCENT Stufenheck (MC)

	1.5 CRDi GLS	11/05		<b>B-126</b>	36710-2A100		11V	
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### ACCENT IV / SOLARIS

D4FB	1.6 CRDi	11/10		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V
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### ACCENT TDI

		04/02		<b>B-110</b>	36710-27010	3	11V	12V
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### ELANTRA

D4FB	1.6 CRDi	02/11		<b>B-126</b>		4	11V	12V
	1.6 CRDi	11/05	12/11	<b>B-126</b>		4	11V	12V

### ELANTRA CRDi

D4EA		2001		<b>B-110</b>	36710-27010	4	11V	12V
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### GALLOPER

4D56T	2.5 TD	08/91	07/98	<b>PM-167</b>		4	11V	12V
	2.5 TD intercooler	08/91	07/98	<b>PM-167</b>		4	11V	12V
D4BA, D4BF	2.5 TD	08/98	12/03	<b>CP-07</b>		4	11V	12V
D4BH	2.5 TCi D	08/98	12/03	<b>CP-07</b>		4	11V	12V
	2.5 TD intercooler	08/98	12/03	<b>PM-167</b>		4	11V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## HYUNDAI

## GETZ

D3EA	1.5 CRDi	03/03	09/05	<b>B-110</b>		3	11V	12V
D4FA	1.5 CRDi	08/05	06/09	<b>B-126</b>		4	11V	12V
	1.5 CRDi GLS	07/04	08/05	<b>B-110</b>		4	11V	12V

## GETZ (TB)

	1.5 CRDi / 1.5 CRDi GLS	08/05		<b>B-126</b>	36710-2A100		11V	
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## GETZ D

D3EA		07/03	2008	<b>B-110</b>	36710-27010	3	11V	12V
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## GRANDEUR

D4EB	2.2 CRDi	06/06	12/11	<b>B-110</b>		4	11V	12V
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## H-1

2.5 D4BB, D4BF, D4BH		1997		<b>PM-166</b>	36710-42020		11V	
D4CB, D4CB-L, D4CB-W	2.5 CRDi	02/08	04/11	<b>B-120</b>		4	11V	12V
	2.5 CRDi	01/09		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V

## H-1 / STAREX

D4BF, D4BH	2.5 D	10/97	10/06	<b>PM-166</b>		4	11V	12V
	2.5 TD	06/97	08/07	<b>PM-166</b>		4	11V	12V
	2.5 TD 4WD	02/98	04/04	<b>PM-166</b>		4	11V	12V
D4BH	2.5 TCi	10/97	12/07	<b>CP-07</b>		4	11V	12V
D4CB	2.5 CRDi	07/01		<b>B-120</b>		4	11V	12V
	2.5 CRDi 4WD	12/02	04/04	<b>B-120</b>		4	11V	12V

## H-1 CARGO

	2.5 CRDi	02/08		<b>B-120</b>	36710-4A000	4	11V	12V
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## H-1 TRAVEL

	2.5 CRDi	05/08		<b>B-120</b>	36710-4A000	4	11V	12V
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## H100

D4BA, D4BF, D4BX	2.5 D	07/93	10/01	<b>PM-166</b>		4	11V	12V
D4BF	2.5 TD	07/93	03/00	<b>PM-166</b>		4	11V	12V
	2.5 TDiC	06/98	10/03	<b>PM-166</b>		4	11V	12V

## H100 MINIBUS

2.5 D4BX, D4BA, D4BB, D4BF, D4BH		1993		<b>PM-166</b>	36710-42020		11V	
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## H100 TRUCK

2.5 D4BX, D4BA, D4BB, D4BF, D4BH				<b>PM-166</b>	36710-42020		11V	
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## H350

D4CB	2.5 CRDi	04/15		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V
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## HD65 / HD72

D4AL, D4AF		2004		<b>A-601</b>	36710-45001	4	23V	24V
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## HIGHWAY VAN

D4EA	2.0 CRDi	03/01	03/04	<b>B-110</b>		4	11V	12V
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## i10

D3FA	1.1 CRDi	01/08	12/11	<b>B-126</b>		3	11V	12V
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## i20

D3FA	1.1 CRDi	03/12	12/15	<b>B-126</b>		3	11V	12V
D4FB	1.6 CRDi	09/08	12/12	<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V
	1.6 CRDi	09/08	12/12	<b>B-126</b>		4	11V	12V
D4FC	1.4 CRDi	08/08	12/15	<b>B-126</b>		4	11V	12V










## i30

D4EA-F	2.0 CRDi	10/07	06/12	<b>B-110</b>		4	11V	12V
D4FB	1.6 CRDi	10/07	06/12	<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V
	1.6 CRDi	10/07	06/12	<b>B-126</b>		4	11V	12V
	1.6 CRDi	01/15		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V
D4FB, D4FB-5P	1.6 CRDi	11/11	12/14	<b>B-126</b>		4	11V	12V
D4FC	1.4 CRDi	12/11	12/14	<b>B-126</b>		4	11V	12V

## i30 Coupe

D4FB	1.6 CRDi	05/13	12/14	<b>B-126</b>		4	11V	12V
	1.6 CRDi	12/14		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V
D4FC	1.4 CRDi	05/13	12/14	<b>B-126</b>		4	11V	12V



 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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## HYUNDAI

<b>i40</b>									
D4FD	1.7 CRDi	07/11		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V	
<b>ix20</b>									
D4FB	1.6 CRDi	06/11	11/15	<b>B-126</b>		4	11V	12V	
D4FC-M	1.4 CRDi	11/10	11/15	<b>B-126</b>		4	11V	12V	
<b>ix35</b>									
CRDi				<b>A-603</b>	36710-3A000		4.4V	12V	
D4FD	1.7 CRDi	11/10		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V	
D4HA	2.0 CRDi	01/10	02/12	<b>A-607</b>	36710-2F100	4	5V	12V	
	2.0 CRDi 4WD	01/10	02/12	<b>A-607</b>	36710-2F100	4	5V	12V	
	2.0 CRDi 4WD	01/10		<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101	4	7V	12V	
<b>LANTRA II</b>									
DJY	1.9 D	03/98	10/00	<b>B-081</b>		4	11V	12V	
<b>MATRIX</b>									
D4FA	1.5 CRDi	12/04	08/05	<b>B-110</b>		4	11V	12V	
	1.5 CRDi	08/05	08/10	<b>B-126</b>		4	11V	12V	
<b>MATRIX (FC)</b>									
	1.5 CRDi VGT	08/05		<b>B-126</b>	36710-2A100		11V		
<b>MATRIX CRDi</b>									
D3EA		09/01		<b>B-110</b>	36710-27010	3	11V	12V	
<b>PORTER</b>									
D4BA, D4BH	2.5 TD	07/94	04/04	<b>PM-166</b>		4	11V	12V	
D4CB	2.5 CRDi	02/03	04/04	<b>B-120</b>		4	11V	12V	
	2.5 D	01/12		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V	
<b>SANTA FE CRDi</b>									
D4EA		04/01		<b>B-110</b>	36710-27010	4	11V	12V	
D4EB		03/06		<b>B-110</b>	36710-27010	4	11V	12V	
		10/05		<b>B-110</b>	36710-27010	4	11V	12V	
<b>SANTA FE CRDi 4x4</b>									
D4EA		08/03		<b>B-110</b>	36710-27010	4	11V	12V	
<b>SANTA FE II</b>									
D4EA	2.0 CRDi 4x4	03/06	12/12	<b>B-110</b>		4	11V	12V	
D4EB	2.2 CRDi	03/06	12/12	<b>B-110</b>		4	11V	12V	
	2.2 CRDi 4x4	03/06	12/12	<b>B-110</b>		4	11V	12V	
	2.2 CRDi GLS	03/06	12/09	<b>B-110</b>		4	11V	12V	
	2.2 CRDi GLS 4x4	03/06	12/09	<b>B-110</b>		4	11V	12V	
D4HA	2.0 CRDi	02/12	12/12	<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101	4	7V	12V	
	2.0 CRDi	12/10	02/12	<b>A-607</b>	36710-2F100	4	5V	12V	
	2.0 CRDi 4x4	02/12	12/12	<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101	4	7V	12V	
	2.0 CRDi 4x4	03/06	02/12	<b>A-607</b>	36710-2F100	4	5V	12V	
D4HB	2.2 CRDi	01/09	06/12	<b>A-607</b>	36710-2F100	4	5V	12V	
	2.2 CRDi 4x4	01/09	06/12	<b>A-607</b>	36710-2F100	4	5V	12V	
<b>SANTA FE III</b>									
D4HA	2.0 CRDi	09/12		<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101	4	7V	12V	
	2.0 CRDi 4WD	09/12		<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101	4	7V	12V	
<b>SONATA</b>									
D4EA	2.0 CRDi	02/06		<b>B-110</b>	36710-27010	4	11V	12V	
<b>SONATA V</b>									
D4EA-F	2.0 CRDi	02/06	12/10	<b>B-110</b>		4	11V	12V	
<b>TERRACAN</b>									
D4BH	2.5	2001		<b>PM-166</b>	36710-42020		11V		
J3	2.9 CRDi	11/01	07/03	<b>CP-07</b>		4	11V	12V	
	2.9 CRDi 4WD	12/01	12/06	<b>CP-07</b>		4	11V	12V	
<b>TRAJET CRDi</b>									
D4EA		04/01	2004	<b>B-110</b>	36710-27010	4	11V	12V	



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**HYUNDAI****TUCSON**

D4EA-F	2.0 CRDi	08/04	03/10	<b>B-110</b>		4	11V	12V
	2.0 CRDi AWD	08/04	03/10	<b>B-110</b>		4	11V	12V
D4FD	1.7 CRDi	06/15		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V

**TUCSON D**

D4EA		09/04		<b>B-110</b>	36710-27010	4	11V	12V
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**INFINITI****Q30**

	1.5 D	11/15		<b>PN-900</b>		4	4.4V	12V
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**INNOCENTI****ELBA**

146 B2.000	1.7 D (146DI, 146EI)	08/91	12/96	<b>B-081</b>		4	11V	12V
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**ISUZU****117 COUPE**

C223	K-PAD96	12/79	06/81	<b>PI-46</b>	8-94221719-3 8-94241449-0 8-94255588-0	4	5V	12V
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**BIG HORN / TROOPER**

4JB1 TURBO	Q-UBS55CW, Q-UBS55FW, Q-UBS55FWR, S-UBS55FM, S-UBS55CK	08/90	07/92	<b>PI-49</b>	8-94175158-0 8-94133759-5	4	11V	12V
4JG2	Q-UBS69GW, Q-UBS69DW, KD-UBS69GW, KD-UBS69DW	08/92		<b>PI-59</b>	8-94387612-1 8-97044037-0	4	11V	12V
4JX1	KH-UBS73	06/98		<b>PI-172</b>	8-97143674-1	4	11V	12V
C223	N-UBS52	08/87	07/90	<b>PI-58</b>	8-94319700-1 8-94144412-0	4	11V	12V
C223 TURBO	N-UBS52	09/81	07/87	<b>PI-46</b>	8-94221719-3 8-94241449-0 8-94255588-0	4	5V	12V

**BUS**

6BD1	CCM370, CCM410, ECM430, K-ECM43	1979	02/84	<b>PI-44</b>	9-82513928-2	6	20.5V	24V
6BG1	P-LT312	1984		<b>PI-44</b>	9-82513928-2	6	20.5V	24V
C221	TLD22B		1969	<b>PI-42</b>	9-82511978-0	4	10.5V	12V
C240	TLD23B	1970	1972	<b>PI-42</b>	9-82511978-0	4	10.5V	12V
D400	BY30		1969	<b>PI-40</b>	9-82511994-0 9-82511945-0	6	22.5V	24V
D500	BY31	1970	1971	<b>PI-43</b>	9-82513959-0	6	20.5V	24V
DA640	BA01, BA05, BA10, BA20, BA30, BF20, BF30, BF40, BF50, BS10, BS20, BXD20, BXD30, BXD50	1968		<b>PI-40</b>	9-82511994-0 9-82511945-0	6	22.5V	24V
DH100	BU04, BU10, BU20, BU35, K-CLM470, K-CLM500, K-CLM550	1969		<b>PI-40</b>	9-82511994-0 9-82511945-0	6	22.5V	24V
E110	BU15	1969	1971	<b>PI-40</b>	9-82511994-0 9-82511945-0	6	22.5V	24V

**CAMPO**

4JA1	2.5 D	01/83	12/88	<b>B-081</b>		4	11V	12V
	2.5 D 4WD	01/83	12/88	<b>B-081</b>		4	11V	12V
C223	2.2 D	01/83	08/87	<b>PI-58</b>		4	11V	12V
	2.2 D 4WD	01/83	08/87	<b>PI-58</b>		4	11V	12V

**D-MAX**

4JJ1	SLX, LS, SL			<b>PI-175</b>	8-97326046-0		11V	12V
RZ4E-TC		2016		<b>PI-177</b>	8-98259502-0	4	11V	

**ELF**

4HL1 4HJ1	KR-NKR81, KR-NPR81, KR-NKS81, KR-NPR72, KR-NPS7			<b>PI-173</b>	8-94390777-4		23V	24V
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**ELF 150**

4JA1 4JB1	P/S-NHR54, P/S-NHR54C, P/S-NHR54E, P/S-NHR55, P/S-NHR55C, P/S-NHR55E, P/S-NHR55CA, P/S-NHR55EA	07/84		<b>PI-49</b>	8-94175158-0 8-94133759-5	4	11V	12V
4JB1 T	P-WHR55	03/85		<b>PI-49</b>	8-94175158-0 8-94133759-5	4	11V	12V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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## ISUZU

### ELF 150










4JG2	KC-NHR69, NHS69, NKR69	03/95		<b>PI-59</b>	8-97043744-0 8-94387612-1 8-97044037-0	4	11V	12V
	U-NHR69, U-NKR69	07/93		<b>PI-59</b>	8-97043744-0 8-94387612-1 8-97044037-0	4	11V	12V
C190	KAD40, KAD41, KAD50, KAD51	1970	09/77	<b>PI-42</b>	9-82511978-0	4	10.5V	12V
	KAD41, KAD51, K-KAD41, K-KAD51	10/77	10/79	<b>PI-45</b>	5-81410040-0	4	9V	12V
	K-KAD41, K-KAD52, N-KAD41, N-KAD51	11/79	06/84	<b>PI-46</b>	8-94221719-3 8-94241449-0 8-94255588-0	4	5V	12V
C240	KAD-42, KAD-52, K-KAD42, K-KAD52	1978	10/79	<b>PI-45</b>	5-81410040-0	4	9V	12V
	KAD42, KAD52, K-KAD42, K-KAD52, N-KAD42, N-KAD52	11/79	06/84	<b>PI-46</b>	8-94221719-3 8-94241449-0 8-94255588-0	4	5V	12V
	KAD42, KAD52, K-KAD42, K-KAD52, N-KAD42, N-KAD52	11/79	06/84	<b>PI-47</b>	5-81410055-2 5-81410057-2	4	9.5V	24V
				<b>PI-43</b>	9-82513959-0	4	20.5V	24V










### ELF 250

4BA1	K-KT24, K-TLD24, K-TLD34, K-TLD44, K-TLD54, K-TLD64, N-TLD24, N-TLD34, N-TLD54	02/80	06/84	<b>PI-48</b>	5-81410056-3 5-81410058-3	4	9.5V	
	P-NKR56	07/84		<b>PI-52</b>	8-94172223-0	4	23V	24V
	TLD24, TLD34, TLD44, TLD54, TLD64	1972	09/78	<b>PI-43</b>	9-82513959-0	4	20.5V	12V
4BC1	K-KT15, K-KT25, K-KT35, K-TLD55, K-TLD65, K-TLD75	10/79	06/81	<b>PI-48</b>	5-81410056-3 5-81410058-3	4	9.5V	
4BC2	K-KT16, K-KT26, K-KT36, K-TLD26, K-TLD46, K-TLD56, K-TLD64, K-TLD66, K-TLD76, P-TLD26, P-TLD56, P-TLD66, P-KT26	07/81	06/84	<b>PI-44</b>	9-82513928-2	4	20.5V	24V
	P-NKR57, P-NPR57	07/84		<b>PI-50</b>	8-94135377-4 8-97033761-0	4	23V	24V
4BD1 T	P-NPR59	07/84		<b>PI-50</b>	8-94135377-4 8-97033761-0	4	23V	24V
4BE1	U-NKR58	07/93		<b>PI-50</b>	8-94135377-4 8-97033761-0	4	23V	24V
4BE2	U-NKR63	07/93		<b>PI-50</b>	8-94135377-4 8-97033761-0	4	23V	24V
4BJ1-2	P-WKR55	03/85		<b>PI-49</b>	8-94175158-0 8-94133759-2	4	11V	
4FE1	U-NKR58EA, U-NKR58LR	08/90		<b>PI-50</b>	8-94135377-4 8-97033761-0	4	23V	24V
4HF1	U-NKR66, U-NPR66	07/93		<b>PI-50</b>	8-94135377-4 8-97033761-0	4	23V	24V
4JA1	P-NHR54	07/84		<b>PI-49</b>	8-94175158-0 8-94133759-2	4	11V	
4JB1	NKR55	07/84		<b>PI-49</b>	8-94175158-0 8-94133759-2	4	11V	
4JG2	U-NHR69, U-NKR69	07/93		<b>PI-59</b>	8-97043744-0 8-94387612-1 8-97044037-0	4	11V	12V
C221	TLD22	1968	1969	<b>PI-42</b>	9-82511978-0	4	10.5V	12V
C240	K-TLD23, K-TLD43, K-TLD53, N-TLD23	02/80	06/84	<b>PI-46</b>	8-94221719-3 8-94241449-0 8-94255588-0	4	5V	12V
	K-TLD23, K-TLD43, K-TLD53, N-TLD23	02/80	06/84	<b>PI-47</b>	5-81410055-2 5-81410057-2	4	9.5V	24V
	TLD13, TLD23, TLD33, TLD43, TLD53, TLD63	1970	09/77	<b>PI-43</b>	9-82513959-0	4	20.5V	24V
	TLD13, TLD23, TLD33, TLD43, TLD53, TLD63	1970	09/77	<b>PI-42</b>	9-82511978-0	4	10.5V	12V
	TLD23, K-TLD63	10/77	01/80	<b>PI-43</b>	9-82513959-0	4	20.5V	24V
	TLD23, K-TLD63	10/77	01/80	<b>PI-45</b>	5-81410040-0	4	9V	12V

### ELF 350

4BB1	KS11, KS21, KS31, KS41	1973	1979	<b>PI-44</b>	9-82513928-2	4	20.5V	24V
4BC2	P-NPR57	07/84		<b>PI-50</b>	8-94135377-4 8-97033761-0	4	23V	24V
4BD1	K-KS12, K-KS22, K-KS32, N-KS22, N-KS32, P-KS22, P-KS32	1980	06/84	<b>PI-44</b>	9-82513928-2	4	20.5V	24V
	P-NPR59	07/84		<b>PI-50</b>	8-94135377-4 8-97033761-0	4	23V	24V
4BD1 T	P-NPR59	07/84		<b>PI-50</b>	8-94135377-4 8-97033761-0	4	23V	24V
4BG1	U-NPR61GD, U-NPR61LR, U-NPR61PR	09/88		<b>PI-50</b>	8-94135377-4 8-97033761-0	4	23V	24V

 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>ISUZU</b>																	
<b>ELF 350</b>																	
4HF1	U-NPR66, KC-NPR66, NKR66			08/90		<b>PI-50</b>	8-94135377-4 8-97033761-0		4	23V	24V						
4HF1 T	U-NPR70			07/93		<b>PI-50</b>	8-94135377-4 8-97033761-0		4	23V	24V						
C330	KS10, KS20			1970	1972	<b>PI-43</b>	9-82513959-0		4	20.5V	24V						
<b>ELF 450</b>																	
4BD1/4BD1 T	P-NPR59			02/86		<b>PI-50</b>	8-94135377-4		4	23V	24V						
<b>ELF MYPACK</b>																	
C240	KUD20			1972	1979	<b>PI-42</b>	9-82511978-0		4	10.5V	12V						
<b>FARGO</b>																	
4FB1	K-WFR50			01/81	06/82	<b>PI-46</b>	8-94241449-0 8-94255588-0		4	5V	12V						
4FC1	K-WFR51, N-WFR51			01/81	06/82	<b>PI-46</b>	8-94241449-0 8-94255588-0		4	5V	12V						
4FG1	U-WFS62DV, U-WFR62DV, U-WFR62FV, U-WFR62FVH, U-NFR62DT			08/90		<b>PI-59</b>	8-94387612-1 8-97044037-0 8-97043744-0		4	11V	12V						
<b>FASTER RODEO</b>																	
4JB1 TURBO	S-TFR55F, S-TFR55H, S-TFS55F, S-TFS55H, S-TFS55HD			01/90		<b>PI-49</b>	8-94175158-0 8-94133759-5		4	11V	12V						
C190	KBD20, KBD25, KBD40			1978	09/79	<b>PI-42</b>	9-82511978-0		4	10.5V	12V						
	KBD20, KBD25, KBD40			1978	09/79	<b>PI-45</b>	5-81410040-0		4	9V	12V						
	KBD21, KBD26, KBD41, K/N-KBD21, K/N-KBD26, K/N-KBD41			10/79		<b>PI-46</b>	8-94221719-3 8-94241449-0 8-94255588-0		4	5V	12V						
C223	N-KBD22, N-KBD27, N-KBD42, N-KBD47			04/83	07/87	<b>PI-46</b>	8-94221719-3 8-94241449-0 8-94255588-0		4	5V	12V						
	N-KBD22, N-KBD42, N-KBD47			08/87		<b>PI-58</b>	8-94319700-1 8-94144412-0		4	11V	12V						
<b>FLORIAN</b>																	
C190	K-PAD30, K-PAD30V			03/80	03/83	<b>PI-46</b>	8-94221719-3 8-94241449-0 8-94255588-0		4	5V	12V						
	PAD30, K-PAD30, K-PAD30V			10/77	02/80	<b>PI-45</b>	5-81410040-0		4	9V	12V						
<b>FORWARD</b>																	
6BB1	FBR320, FBR370, FBR650, JBR360, JBR420, JBR500, JBR650, VBR320, YBR310, YBR360			1972	1977	<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
	SBR320, SBR322, SBR332, SBR372, SBR380, SBR400, SBR422, SBR450, SBR452, SBR482, SBR500, SBR552, SBR560, SBR680, K-SBR372, K-SBR422			1972	(FX I)	<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
6BD1	FCR320, FCR370, FCR420, FCR450, FCR480, FCR550, FCR650, JCR360, JCR420, JCR460, JCR500, JCR550, SCR330, JCR370, JCR420, JCR650, K-JCR420, K-JCR500, K-VCR320, K-SCR480, K-SCS370			1976	01/84	<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
	SCR320, SCR370, SCR420, SCR422, SCR450, SCR480, SCR550			1976	(FX II)	<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
6BD1T	P-FRR12			02/84		<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
6BF1	K-FDR320, K-FDR370, K-FDR420, K-FDR450, K-FDR480, K-FDR550, K-FDR650, K-JDR360, K-JDR420, K-JDR460, K-JDR500, K-JDR550, K-JDR650, K-VDR320			1979		<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
	K-SDR320, K-SDR370, K-SDR420, K-SDR450, K-SDR480, K-SDR550, K-SDR650			1979	(FX III)	<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
6BG1	P-ETR12, U-FSR12			05/89		<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
	P-FRR11			02/84		<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
6BG1 TURBO	U-FTR12, U-FPR12, U-ESR12, W-ESR12			04/90		<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
6HE1	U-FSR32, U-FTR32, U-FRR32, U-FSD32			04/90		<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
6HH1	KC-FRR33G1, KC-FRR33G2, KC-FRR33H1, KC-FRR33H2, KC-FRR33K1, KC-FRR33K2, KC-FRR33L1, KC-FRR33L2, KC-FRR33M2, KC-FRR33P2, KC-FRR33T2, KC-FRR33V2			02/95		<b>PI-50</b>	8-94135377-4 8-97033761-0		6	23V	24V						
D500	TR20, TR30, TR35, TR40, TR50, TR60, TR70, TR85			1970	1972	<b>PI-43</b>	9-82513959-0		6	20.5V	24V						
<b>GEMINI</b>																	
4EC1	N-JT600			10/85	12/88	<b>PI-55</b>	8-94439218-0		4	5V	12V						
	Q-JT600			12/88		<b>PI-58</b>	8-94319700-1		4	11V	12V						
4EC1 TURBO	N-JT600			10/85	12/88	<b>PI-51</b>	8-94402303-1		4	5V	12V						
	Q-JT600			12/88		<b>PI-57</b>	8-94481972-0			11V	12V						

 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>ISUZU</b>																	
<b>GEMINI</b>																	
4EE1 TURBO	Q-JT641F, X-JT641F			04/90		<b>PI-59</b>	8-94387612-1 8-97044037-0		4	11V	12V						
4FB1 TURBO	K-PFD60			10/79	09/81	<b>PI-46</b>	8-94221719-3 8-94241449-0 8-94255588-0		4	5V	12V						
<b>HIPACK VAN</b>																	
C223	N-UFR52G			08/87		<b>PI-58</b>	8-94319700-1		4	11V	12V						
C223/ C223 TURBO	N-UFR52G			01/83	07/87	<b>PI-46</b>	8-94221719-3 8-94241449-0 8-94255588-0		4	5V	12V						
<b>JOURNEY (K. L. M. Q. S)</b>																	
4BA1	BLD30			1973	1978	<b>PI-43</b>	9-82513959-0		4	20.5V	24V						
	K-BLD34			1980		<b>PI-48</b>	5-81410056-3 5-81410058-3		4	9.5V							
4BB1	BE20			1973	1979	<b>PI-44</b>	9-82513928-2		4	20.5V	24V						
4BC1	K-BLD35			1980	06/81	<b>PI-48</b>	5-81410056-3 5-81410058-3			9.5V							
4BC2	K-BLD35			07/81		<b>PI-44</b>	9-82513928-2		4	20.5V	24V						
4BD1	K-BE22			1980		<b>PI-44</b>	9-82513928-2		4	20.5V	24V						
6BB1	BK32, DBR370, K-DBR370			1973	02/84	<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
6BD1 6BD1 T	CCM370, CCM410, K-CCM410, P-LR211			1976	02/84	<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
6BG1	P-LR312			1984		<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
C190	KAD51			1976	1978	<b>PI-42</b>	9-82511978-0		4	10.5V	12V						
C240	BLD23, K-KAD51			1969	1980	<b>PI-42</b>	9-82511978-0		4	10.5V	12V						
D500	BK30			1972	1973	<b>PI-43</b>	9-82513959-0		6	20.5V	24V						
<b>MIDI</b>																	
4FC1T	2.0 TD			01/89	08/92	<b>PI-51</b>			4	5V	12V						
	2.0 TD			01/89	08/92	<b>PI-57</b>			4	11V	12V						
4FD1	2.2 D			06/88	08/92	<b>PI-57</b>			4	11V	12V						
	2.2 D 4WD			06/88	08/92	<b>PI-57</b>			4	11V	12V						
4FG1T	2.4 D			01/94	07/96	<b>PI-51</b>			4	5V	12V						
	2.4 D			01/94	07/96	<b>PI-57</b>			4	11V	12V						
	2.4 TD			09/92	07/96	<b>PI-51</b>			4	5V	12V						
	2.4 TD			09/92	07/96	<b>PI-57</b>			4	11V	12V						
<b>MU WIZZARD</b>																	
4JB1 TURBO	Q-UCS55			08/90		<b>PI-49</b>	8-94175158-0 8-94133759-5		4	11V	12V						
4JG2	UCS69DWM			10/93	06/98	<b>PI-59</b>	8-97044037-0		4	11V	12V						
4JX1	KH-UES73			06/98		<b>PI-172</b>	8-97143674-1		4	11V	12V						
<b>MU-X</b>																	
RZ4E-TC				2016		<b>PI-177</b>	8-98259502-0		4	11V	12V						
<b>RODEO</b>																	
2.5TD	S, XS, LS			07/03		<b>PI-176</b>	8-97306519-2			11V	12V						
<b>TROOPER I</b>																	
4JB1-T, 4JB1-TC	2.8 TD			10/87	12/91	<b>PI-49</b>			4	11V	12V						
C223	2.2 D 4WD			08/87	12/89	<b>PI-58</b>			4	11V	12V						
	2.2 D 4x4			08/87	07/89	<b>PI-58</b>			4	11V	12V						
C223-T	2.2 D			01/83	12/83	<b>PI-58</b>			4	11V	12V						
	2.2 TD			08/87	12/91	<b>PI-58</b>			4	11V	12V						
<b>TROOPER II</b>																	
4JG2 T	3.1 TD			08/91	12/97	<b>PI-57</b>			4	11V	12V						
<b>TROOPER III</b>																	
4JX1, 4JX1T	3.0 DTI			05/98	08/04	<b>PI-172</b>			4	11V	12V						
<b>TRUCK / DUMP TRUCK / TRACTOR / TANK TRUCK</b>																	
6BB1	VBR320, SBR322M			1972	01/84	<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
6BD1	SCR320EM, 320M, K-TSD45			1976	01/84	<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
6BF1	SDR320M (except fire engine)			1978	01/84	<b>PI-44</b>	9-82513928-2		6	20.5V	24V						
D400	TY21, TY31, TY41, TY51			1968	1974	<b>PI-40</b>	9-82511994-0 9-82511945-0		6	22.5V	24V						
D500	SBR320, SBR380			1972	1973	<b>PI-43</b>	9-82513959-0		6	20.5V	24V						
DA120	TSD40, TWD20 TXD10, TXD20, TXD30, TXD40, TXD50			1969	1974	<b>PI-40</b>	9-82511994-0 9-82511945-0		6	22.5V	24V						
DA640	BXD30, SFR330, SFR420, SFR460, SFR500 SFR600, TSD43, TWD23, TXD13, TXD23, TXD33, TXD53, TXD60, TXD90, TXD10E, TXD30E, TXD40E, TXD50E, TXD70E, TD80E, K-TXD23			1969	1979	<b>PI-40</b>	9-82511994-0 9-82511945-0		6	22.5V	24V						

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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**ISUZU****TRUCK / DUMP TRUCK / TRACTOR / TANK TRUCK**

DH100	SLR350D, SLR360, SLR361, SLR400, SLR401, SLR401T, SLR450, SLR461, SLR520, SLR531, SLR600, SLR670, K-SLR361, K-SLR401, TSD50, YZ20, TD40, TD50, TD50A, TD60, TSD62, TSD70, TSD72, TD10E, TD50E, TD70E, TD80E, TD90E, TP60, TP61, TP77, TP78, TP81, TP11E, TP41E, TP81E, TP91E	1965		<b>PI-40</b>	9-82511994-0 9-82511945-0	6	22.5V	24V
E110	TD35E, TD75E, TG55, TM45E, TM85, TM85E	1969		<b>PI-40</b>	9-82511994-0 9-82511945-0	6	22.5V	24V
<b>UNIVERSAL</b>								
2AA1, 2AB1, 2AE1, 2KA1, 2KB1, 2KC1				<b>PI-42</b>	9-82511978-0	2	10.5V	12V
3AA1, 3AB1, 3AD1, 3AE1, 3AF1, 3AG1, 3KA1, 3KB1, 3KC1				<b>PI-42</b>	9-82511978-0	3	10.5V	12V
4BB1, 4BC2, 4BD1				<b>PI-44</b>	9-82513928-2	4	20.5V	24V
4FA1, 4FB1				<b>PI-42</b>	9-82511978-0	4	10.5V	12V
				<b>PI-46</b>	8-91255588-0	4	5V	12V
C190, C201, C221, C240, 4BA1				<b>PI-42</b>	9-82511978-0	4	10.5V	12V
				<b>PI-43</b>	9-82513959-0	4	20.5V	24V
D500				<b>PI-42</b>	9-82511978-0	6	10.5V	12V
				<b>PI-43</b>	9-82513959-0	6	20.5V	24V
DA120, DA220				<b>PI-40</b>	9-82511994-0 9-82511945-0	4	22.5V	24V
DA640, DH100				<b>PI-40</b>	9-82511994-0 9-82511945-0	6	22.5V	24V

**IVECO****DAILY I**

8140.21.200	2.4 D	01/85	12/89	<b>B-097</b>		4	11V	12V
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**DAILY II**

8140.63	2.8 D	09/98	05/99	<b>B-097</b>		4	11V	12V
8140.67F., 8140.67F.3701, 8140.67F.3710, 8140.67F.3711, 8140.67F.3713, 8140.67F.3721	2.5 D	04/96	08/98	<b>B-097</b>		4	11V	12V
8140.97.2781	2.5 D	01/89	03/96	<b>B-081</b>		4	11V	12V

**DAILY III**

8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S	2.8 D	05/99	07/07	<b>B-097</b>		4	11V	12V
8140.43N, 8140.63	2.8 D	05/99	07/07	<b>B-097</b>		4	11V	12V
F1AE0481A	2.3 29 L 10	09/02	04/06	<b>PM-403</b>		4	11V	12V
	2.3 29 L 10 V	09/02	07/07	<b>PM-403</b>		4	11V	12V
	2.3 35 C 10 V, 35 S 10 V	09/02	04/06	<b>PM-403</b>		4	11V	12V
	2.3 35 S 10	09/02	07/07	<b>PM-403</b>		4	11V	12V
F1AE0481B	2.3 29 L 12	09/02	04/06	<b>PM-403</b>		4	11V	12V
	2.3 29 L 12 V	09/02	07/07	<b>PM-403</b>		4	11V	12V
	2.3 35 C 12, 35 S 12	09/02	04/06	<b>PM-403</b>		4	11V	12V
	2.3 35 C 12 V, 35 S 12 V	09/02	07/07	<b>PM-403</b>		4	11V	12V
	2.3 D	01/03	05/06	<b>PM-403</b>		4	11V	12V
F1AE0481M	2.3 29 L 14	11/05	04/06	<b>PM-403</b>		4	11V	12V
	2.3 D	01/05	04/06	<b>PM-403</b>		4	11V	12V
F1CE0481A, F1CE0481B	3.0 D	01/04	05/06	<b>PM-403</b>		4	11V	12V
	3.0 D	07/99	04/06	<b>PM-403</b>		4	11V	12V

**DAILY IV**

F1AE0481FA, F1AE0481GA, F1AE0481HA	2.3 D	05/06	08/11	<b>PM-403</b>		4	11V	12V
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ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## IVECO

### DAILY IV

F1CE0481FA, F1CE0481HA, F1CE0481HC, F1CE0481L, F1CE3481LC	3.0 D	05/06	08/11	<b>PM-403</b>		4	11V	12V
F1CE3481C	3.0 D	08/07	03/12	<b>PM-403</b>		4	11V	12V

### DAILY V

F1AE3481A, F1AE3481B, F1AE3481C	2.3 D	09/11	02/14	<b>PM-403</b>		4	11V	12V
F1CE3481B, F1CE3481C, F1CE3481D, F1CE3481J, F1CE3481K, F1CE3481L	3.0 D	09/11	02/14	<b>PM-403</b>		4	11V	12V

### MASSIF

F1CE0481FA	3.0 HPI	10/08	02/11	<b>PM-403</b>		4	11V	12V
F1CE0481HA	3.0 HPT	10/08	02/11	<b>PM-403</b>		4	11V	12V

## JAGUAR

### S-TYPE

AJD	2.7 D	06/04	10/07	<b>B-134</b>		6	11V	12V
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### XF

AJD	2.7 D	03/08	03/09	<b>B-134</b>		6	11V	12V
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### XJ

AJD	2.7 D	10/05	03/09	<b>B-134</b>		6	11V	12V
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### X-TYPE

FMBA, FMBB, R4-X404	2.0 D	07/03	12/09	<b>B-101</b>		4	11.5V	12V
LJ46G, QJBA	2.2 D	10/05	12/09	<b>B-101</b>		4	11.5V	12V

## JEEP

### CHEROKEE

ENR	2.8 CRD 4x4	11/02	01/08	<b>B-127</b>	05066840AA	4	11V	
	2.8 CRD 4x4	11/04	01/08	<b>B-127</b>	05066840AA	4	11V	
R 425 DOHC	2.5 CRD 4x4	09/01	01/08	<b>B-127</b>	05066840AA	4	11V	
EBS, EBT	KL, 2.0 CRD 4x4	04/14	08/18	<b>PM-405</b>	68021306AA, 68021306AB, 6809621AA	4	4.4V	12V
ENC	XJ, 2.5 TD 4x4	01/88	12/95	<b>B-081</b>		4	11V	12V
	XJ, 2.5 Tdi 4x4	01/97	09/01	<b>B-086</b>		4	11V	12V
	XJ, 2.5 Tdi 4x4	10/96	12/96	<b>B-081</b>		4	11V	12V
J8S	XJ, 2.1 TD	06/89	09/01	<b>B-081</b>		4	11V	12V
	XJ, 2.1 TD	10/84	03/92	<b>B-081</b>		4	11V	12V

### COMMANDER

EXL	3.0 CRD 4x4	04/06	04/10	<b>B-129</b>		6	4.4V	12V
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### COMPASS

ECD, ECE	2.0 CRD	08/06		<b>PM-405</b>		4	4.4V	12V
ECE	2.0 CRD 4x4	09/06		<b>PM-405</b>		4	4.4V	12V

### GRAND CHEROKEE I

ENC	2.5 TD 4x4	10/95	04/99	<b>B-086</b>		4	11V	12V
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### GRAND CHEROKEE II

ENF	2.7 CRD 4x4	10/01	09/05	<b>B-086</b>		5	11V	12V
EXA	3.1 TD 4x4	04/99	12/01	<b>B-086</b>	88900716	5	11V	12V
	3.1 TD 4x4	04/99	12/01	<b>B-129</b>	5175756AA	5	4.4V	12V

### GRAND CHEROKEE III

EXL	3.0 CRD 4x4	05/06	12/10	<b>B-129</b>	5175756AA	6	4.4V	
	3.0 CRD 4x4	06/05	12/10	<b>B-129</b>	5175756AA	6	4.4V	










### PATRIOT

ECD, ECE	2.0 CRD	02/07	12/17	<b>PM-405</b>		4	4.4V	12V
	2.0 CRD 4x4	02/07	12/17	<b>PM-405</b>		4	4.4V	12V

### RENEGADE

55263087, 55263088, EBT	2.0 CRD 4x4	07/14		<b>B-135</b>		4	4.4V	12V
55263113, EJK	1.6 CRD	07/14		<b>B-135</b>		4	4.4V	12V



 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>KIA</b>																	
<b>BESTA</b>																	
R2	2.2 D	07/92	12/03	<b>PZ-39</b>				4	11V	12V							
<b>BONGO</b>																	
D4CB	2.5 CRDi	01/12		<b>A-604</b>	36710-2A700, 36710-4A710			4	11V	12V							
HJ3	2.9 TDiC	10/03		<b>A-602</b>	36710-4X900			4	11V	12V							
	2.9 TDiC 4WD	10/03		<b>A-602</b>	36710-4X900			4	11V	12V							
<b>CARENS II</b>																	
D4EA-F	2.0 CRDi	07/02		<b>B-110</b>				4	11V	12V							
<b>CARENS III</b>																	
D4EA	2.0 CRDi 115	05/07		<b>B-110</b>				4	11V	12V							
	2.0 CRDi 135	08/09		<b>B-110</b>				4	11V	12V							
D4EA-F	2.0 CRDi 140	09/06		<b>B-110</b>				4	11V	12V							
D4FB	1.6 CRDi 110	10/10		<b>B-126</b>				4	11V	12V							
	1.6 CRDi 128	10/10		<b>B-126</b>				4	11V	12V							
<b>CARENS IV</b>																	
D4FD	1.7 CRDi	03/13		<b>A-604</b>	36710-2A700, 36710-4A710			4	11V	12V							
<b>CARNIVAL I</b>																	
J3	2.9 TD	08/99	10/01	<b>PM-166</b>				4	11V	12V							
	2.9 TD	08/99	10/01	<b>PM-167</b>	36710-42500			4	11V	12V							
<b>CARNIVAL II</b>																	
J3	2.9 CRDi	10/01	06/06	<b>PM-166</b>	36710-42510			4	11V	12V							
	2.9 CRDi	10/01	06/06	<b>PM-167</b>	36710-42500			4	11V	12V							
	2.9 TD	01/99	09/07	<b>PM-166</b>	36710-42510			4	11V	12V							
	2.9 TD	01/99	09/07	<b>PM-167</b>	36710-42500			4	11V	12V							
<b>CARNIVAL III</b>																	
D4HB	2.2 CRDi	01/10		<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101			4	7V	12V							
J3	2.9 CRDi	06/06		<b>A-602</b>	36710-4X900			4	11V	12V							
	2.9 CRDi LX	09/06		<b>A-602</b>	36710-4X900			4	11V	12V							
<b>CARNIVAL III / SEDONA MK II</b>																	
D4HB	2.2 CRDi AUTOMATIC	01/10		<b>A-607</b>	36710-2F100			4	5V								
	2.2 CRDi MANUAL	01/10		<b>A-606</b>	36710-2F000			4	7V								
<b>CEED</b>																	
	1.6DT	06/06		<b>A-604</b>	36710-2A700				11V	12V							
D4EA	2.0 CRDi	06/07	12/12	<b>B-110</b>				4	11V	12V							
	2.0 CRDi 140	07/07	12/12	<b>B-110</b>				4	11V	12V							
D4FB	1.6 CRDi 110	05/12	07/15	<b>B-126</b>				4	11V	12V							
	1.6 CRDi 110	07/15		<b>A-604</b>	36710-2A700, 36710-4A710			4	11V	12V							
	1.6 CRDi 115	12/06	11/09	<b>B-110</b>				4	11V	12V							
	1.6 CRDi 128	05/12	07/15	<b>B-126</b>				4	11V	12V							
	1.6 CRDi 128	07/15		<b>A-604</b>	36710-2A700, 36710-4A710			4	11V	12V							
	1.6 CRDi 128	10/10	12/12	<b>B-126</b>				4	11V	12V							
	1.6 CRDi 136	07/15		<b>A-604</b>	36710-2A700, 36710-4A710			4	11V	12V							
	D4FB-L	1.6 CRDi 90	12/06	11/11	<b>B-110</b>				4	11V	12V						
D4FC	1.4 CRDi 90	05/12	07/15	<b>B-126</b>				4	11V	12V							
	1.4 CRDi 90	07/15		<b>A-604</b>	36710-2A700, 36710-4A710			4	11V	12V							
<b>CERATO</b>																	
D4EA	2.0 CRDi	04/04		<b>B-110</b>	36710-27010			4	11V	12V							
D4FA	1.5 CRDi	07/05		<b>B-126</b>				4	11V	12V							
D4FB	1.6 CRDi	06/05		<b>B-126</b>				4	11V	12V							
<b>K2500</b>																	
D4BH		2003		<b>PM-166</b>	36710-42020				11V								
	2.5 D	10/07		<b>PN-135</b>				4	11V	12V							
D4CB	2.5 CRDi	01/10		<b>A-604</b>	36710-2A700, 36710-4A710			4	11V	12V							
<b>K2700</b>																	
J2	2.7 D	10/99	09/04	<b>PZ-39</b>				4	11V	12V							
<b>K2900</b>																	
J3	2.9 D	01/08		<b>A-602</b>	36710-4X900			4	11V	12V							
<b>MAGENTIS CRDi</b>																	
D4EA		04/06	2009	<b>B-110</b>	36710-27010			4	11V	12V							

ENGINE		MODEL		M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>KIA</b>										
<b>OPTIMA</b>										
D4FD	1.7 CRDi	03/12		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V		
	1.7 CRDi	11/15		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V		
<b>PICANTO</b>										
D3FA	1.1 CRDi	11/05		<b>B-126</b>		3	11V	12V		
<b>PREGIO</b>										
D4BH		1995		<b>PM-166</b>	36710-42020		11V			
	2.5 D	08/95	09/04	<b>CP-07</b>		4	11V	12V		
	2.5 TCi D	09/02		<b>CP-07</b>		4	11V	12V		
J2	2.7 D	10/97		<b>PZ-39</b>		4	11V	12V		
<b>PRO CEED</b>										
D4EA	2.0 CRDi 140	02/08	09/12	<b>B-110</b>		4	11V	12V		
D4FB	1.6 CRDi 110	03/13	07/15	<b>B-126</b>		4	11V	12V		
	1.6 CRDi 110	07/15		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V		
	1.6 CRDi 115	02/08	11/09	<b>B-110</b>		4	11V	12V		
	1.6 CRDi 128	03/13	07/15	<b>B-126</b>		4	11V	12V		
	1.6 CRDi 128	07/15		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V		
	1.6 CRDi 128	10/10	09/12	<b>B-126</b>		4	11V	12V		
	1.6 CRDi 136	07/15		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V		
D4FB-L	1.6 CRDi 90	02/08	11/09	<b>B-110</b>		4	11V	12V		
D4FC	1.4 CRDi 90	03/13	07/15	<b>B-126</b>		4	11V	12V		
	1.4 CRDi 90	07/15		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V		
<b>RETONA</b>										
RF	2.0 TD	06/99		<b>PZ-39</b>		4	11V	12V		
<b>RIO II (JB) / RIO II Stufenheck (JB)</b>										
	1.5 CRDi	03/05		<b>B-126</b>	36710-2A100		11V			
<b>RIO III</b>										
D3FA	1.1 CRDi	09/11	11/14	<b>B-126</b>		3	11V	12V		
D4FC	1.4 CRDi	09/11	11/14	<b>B-126</b>		4	11V	12V		
<b>SEDONA</b>										
	2.9 CRDi			<b>A-602</b>	36710-4X900		11V	12V		
<b>SORENTO</b>										
		08/02		<b>B-120</b>	36710-4A000	4	11V	12V		
		12/06		<b>B-120</b>	36710-4A000	4	11V	12V		
<b>SORENTO I</b>										
D4CB	2.5 CRDi	08/02		<b>B-120</b>		4	11V	12V		
<b>SORENTO II</b>										
D4HA	2.0 CRDi	02/12		<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101	4	7V	12V		
	2.0 CRDi	11/10	02/12	<b>A-607</b>	36710-2F100	4	5V	12V		
	2.0 CRDi 4WD	02/12		<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101	4	7V	12V		
	2.0 CRDi 4WD	11/10	02/12	<b>A-607</b>	36710-2F100	4	5V	12V		
D4HB	2.2 CRDi	02/12		<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101	4	7V	12V		
	2.2 CRDi	11/09	02/12	<b>A-607</b>	36710-2F100	4	5V	12V		
	2.2 CRDi 4WD	02/12		<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101	4	7V	12V		
	2.2 CRDi 4WD	11/09	02/12	<b>A-607</b>	36710-2F100	4	5V	12V		
<b>SOUL I</b>										
D4FB	1.6 CRDi 115	02/09		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V		
	1.6 CRDi 115	02/09		<b>B-126</b>		4	11V	12V		
	1.6 CRDi 128	02/09		<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V		
	1.6 CRDi 128	02/09		<b>B-126</b>		4	11V	12V		
<b>SOUL II</b>										
D4FB	1.6 CRDi 128	02/14	08/16	<b>B-126</b>	36710-2A100, 36710-2A200	4	11V	12V		
	1.6 CRDi 136	04/15	08/16	<b>B-126</b>	36710-2A100, 36710-2A200	4	11V	12V		

ENGINE		MODEL		M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>KIA</b>										
<b>SPORTAGE</b>										
D4EA	2.0 CRDi	2006				<b>B-110</b>	36710-27010	4	11V	12V
		11/04				<b>B-110</b>	36710-27010	4	11V	12V
<b>SPORTAGE I</b>										
RF	2.0 TD 4WD	10/97	08/03			<b>PZ-39</b>		4	11V	12V
<b>SPORTAGE III</b>										
D4FD	1.7 CRDi	12/10				<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V
D4HA	2.0 CRDi	02/12				<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101	4	7V	12V
	2.0 CRDi	07/10	02/12			<b>A-607</b>	36710-2F100	4	5V	12V
	2.0 CRDi AWD	02/12				<b>A-606</b>	36710-2F000, 36710-2F001, 36710-2F101	4	7V	12V
	2.0 CRDi AWD	07/10	02/12			<b>A-607</b>	36710-2F100	4	5V	12V
<b>SPORTAGE IV</b>										
D4FD	1.7 CRDi	09/15				<b>A-604</b>	36710-2A700, 36710-4A710	4	11V	12V
<b>VENGA</b>										
D4FB	1.6 CRDi 115	02/10	10/14			<b>B-126</b>		4	11V	12V
	1.6 CRDi 128	02/10	10/14			<b>B-126</b>		4	11V	12V
D4FC	1.4 CRDi 75	02/10	10/14			<b>B-126</b>		4	11V	12V
	1.4 CRDi 90	02/10	10/14			<b>B-126</b>		4	11V	12V

<b>KOMATSU</b>										
<b>BULLDOZER GENERATOR</b>										
4D120						<b>PK-96</b>	6008-15-2650	4	22.5V	24V
4D130						<b>PK-96</b>	6008-15-2660	4	22.5V	24V
4D95						<b>PT-150</b>	6008-15-2761	4	11V	12V
<b>BULLDOZER POWER SHOVEL</b>										
3304, 3300, 340						<b>PK-98</b>	3S9624X 1P7324		24V	24V
4D105						<b>PK-115</b>	6008-15-1340		20.5V	24V
4D130	D50					<b>PK-96</b>	6110-13-2511		22.5V	24V
4D92						<b>PK-116</b>	6008-15-2320		22.5V	24V
<b>FORKLIFT</b>										
4D95S	FD20, FD30					<b>PT-150</b>	6008-15-2761	4	11V	12V
						<b>PD-191</b>	6008-15-2760	4	11V	12V

<b>KUBOTA</b>										
<b>COMBINE</b>										
D1101, D1301	HT900, HT2200, NX3000					<b>PS-204</b>	15521-6551-3	3	10.5V	12V
D1462DI-C	RX3250					<b>PS-209</b>	17331-6551-1	3	10.5V	12V
D600-C, D640-C, D750, D750-C, D850-C2, D850-C3, D950-C	NX1000, NX1600, NX2000, NX2200, RX145AGU, RX155AGU, RX185AG, RX550, RX750, RX900, RX950, RX1100, RX1250, RX1450, RX1500, RX1550, RX1900, RX1950, RX2100, RX2150, RX2450, RX2750					<b>PS-201</b>	15951-6551-2	3	10.5V	12V
D905-C, D1005-C, D1005C-1, D1005-C-2, D1005-LC, D1105-C, D1105-C-1	R1-18, R1-20, R1-22, R1-24, R1-191, R1-201, R1-241					<b>PS-207</b>	16241-6551-2 16261-6551-1	3	11V	12V
DH1402-C	NX3000-1, RX2800, RX3600, X3000-A					<b>PS-202</b>	15521-6551-2	3	10.5V	12V
E75C	RX700					<b>PS-201</b>	15951-6551-2	1	10.5V	12V
E75-C2	NX1000, NX1600, NX2000, NX2200, RX145AGU, RX155AGU, RX185AG, RX550, RX750, RX900, RX950, RX1100, RX1250, RX1450, RX1500, RX1550, RX1900, RX1950, RX2100, RX2150, RX2450, RX2750					<b>PS-201</b>	15951-6551-2	1	10.5V	12V
V1200-C, V1200C-1	NX1000, NX1600, NX2000, NX2200, RX145AGU, RX155AGU, RX185AG, RX550, RX750, RX900, RX950, RX1100, RX1250, RX1450, RX1500, RX1550, RX1900, RX1950, RX2100, RX2150, RX2450, RX2750					<b>PS-201</b>	15951-6551-2	4	10.5V	12V
V1305-C, V1405-HC, V1505-C	R1-30, R1-35, R1-40, R1-261					<b>PS-207</b>	16241-6551-2 16261-6551-1	4	11V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**KUBOTA****COMBINE**

V1502	NX3000-1, RX2800, RX3600, X3000-A			<b>PS-202</b>	15521-6551-2	4	10.5V	12V
V1512-DI-L	RX3650			<b>PS-209</b>	17331-6551-1	4	10.5V	12V
Z650-C	HT900, HT2200, NX3000			<b>PS-204</b>	15521-6551-3	2	10.5V	12V
ZB400, ZB400-C, ZB400-C2, ZB400-C3 Z600-C, Z600-C1, Z620-C	NX1000, NX1600, NX2000, NX2200, RX145AGU, RX155AGU, RX185AG, RX550, RX750, RX900, RX950, RX1100, RX1250, RX1450, RX1500, RX1550, RX1900, RX1950, RX2100, RX2150, RX2450, RX2750			<b>PS-201</b>	15951-6551-2	2	10.5V	12V

**CONSTRUCTION MACHINERY**

D1100BH, D1301	KH-1, KH-10, KH-14, KH-15, KH-18, KD-15, RW-25			<b>PS-204</b>	15221-6551-3	3	10.5V	12V
D1105-BH, D1105-BHG, D1105-BHG-SR	AR20, RX201, KX-014, KX-021, KX-024			<b>PS-207</b>	16241-6551-2	3	11V	12V
D1302, D1302-BH-2 D1402-BH-3	KH-11H, KH-12FD, KH-20, KH-60, KH-70, KH-90, KH-030TS			<b>PS-202</b>	15521-6551-2	3	10.5V	12V
D850, D850BH, D950, D950BH-1	KH-5, KH-8H-2, KH-18-2, KH-31, KH-35, KH-50, KH-012, KH-014			<b>PS-201</b>	15951-6551-2	3	10.5V	12V
S2200	KH-1, KH-10, KH-1, KH-15, KH-18, KD-15, RW-25			<b>PS-204</b>	15221-6551-3	6	10.5V	12V
V1305-RP, V1505-RP V1505-BH, V1505-BHG, V1505-BH-SR	AR30, RA300, RA400, RX301, KX-026, KX-027, KX-030			<b>PS-207</b>	16241-6551-2 16261-6551-1	4	11V	12V
V1500BDW	KH-1, KH-10, KH-14, KH-15, KH-18, KD-15, RW-25			<b>PS-204</b>	15221-6551-3	4	10.5V	12V
VT1502, V1702BH-2	KH-11H, KH-12FD, KH-20, KH-60, KH-70, KH-90, KH-030TS			<b>PS-202</b>	15521-6551-2	4	10.5V	12V
Z600K1, Z600KW-3 Z620KW	KH-5, KH-8H-2, KH-18-2, KH-31, KH-35, KH-50, KH-012, KH-014			<b>PS-201</b>	15951-6551-2	2	10.5V	12V
Z751BD	KH-1, KH-10, KH-14, KH-15, KH-18, KD-15, RW-25			<b>PS-204</b>	15221-6551-3	2	10.5V	12V

**GENERATOR**

D750-L, D850-L, D950B, D950C				<b>PS-201</b>	15951-6551-2	3	10.5V	12V
Z600C				<b>PS-201</b>	15951-6551-2	2	10.5V	12V

**LAWN MOWER**

D950	AMX-3			<b>PS-201</b>	15951-6551-2	3	10.5V	12V
V1305-AMX	AMX-5			<b>PS-207</b>	16241-6551-2	4	11V	12V

**MARINE**

OMH1700				<b>PS-204</b>	15221-6551-3	4	10.5V	12V
OMH2600				<b>PS-204</b>	15221-6551-3	6	10.5V	12V

**TRACTOR**

D1100, D1101, D1101A, D1301, D1301A, DH1101	B7000, L175, L185, L225, L245, L285, L295, L305, L345, L1500, L1501, L1801, L2000, L2200, L2201, L2600, L2601, L3001, M4000, M4500			<b>PS-204</b>	15221-6551-3	3	10.5V	12V
D1102, 1302, 1302-A, 1402 D1402L	B1902(DT), L275, L1802, L2002, L2202, L2402, L2602, L2802, L3202, L3602, L4002, L4202(DT), L4212, M4950			<b>PS-202</b>	15521-6551-2	3	10.5V	12V
D1302DI, D1402-DI D1462-DI-L, D1462DI	L1-18, L1-20, L1-22, L1-24, L1-185, L1-205, L1-225, L1-245			<b>PS-209</b>	17331-6551-1	3	10.5V	12V
D1403	GL-19, GL-21			<b>PS-208</b>	19077-6551-1	3	11V	12V
D1463	GL-23, GL-25			<b>PS-208</b>	19077-6551-1	3	11V	12V
D1503	GL-27, GL-29, GL-32			<b>PS-208</b>	19077-6551-1	3	11V	12V
D750-L, D750LD-1, D850L, D850M D950	B1200, B1400, B1402(DT), B1500, B1502(DT), B1600, B1702, B1902, B8200, XB-1			<b>PS-201</b>	15951-6551-2	3	10.5V	12V
D905, D1005, D1105, D905-H, D1005-H, D1105-H	A15, A17, A19, A155, A175, A195			<b>PS-207</b>	16241-6551-2 16261-6551-1	3	11V	12V
F2202-DI, F2802-DI	L1-38, L1-45			<b>PS-209</b>	17331-6551-1	5	10.5V	12V
S2200, S2600, S2600A	B7000, L175, L185, L225, L245, L285, L295, L305, L345, L1500, L1501, L1801, L2000, L2200, L2201, L2600, L2601, L3001, M4000, M4500			<b>PS-204</b>	15221-6551-3	6	10.5V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**KUBOTA****TRACTOR**

S2602-DI, S2802-DI	M4030, M5030, M4830, M4930				<b>PS-209</b>	17331-6551-1	6	10.5V	12V
S2800	B1902(DT), L275, L1802, L2002, L2202, L2402, L2602, L2802, L3202, L3602, L4002, L4202(DT), L4212, M4950				<b>PS-202</b>	15521-6551-2	6	10.5V	12V
V1305, V1405	X-20D, X-24D				<b>PS-207</b>	1694-6551-2	4	11V	12V
V1405-L, V1505-L, V1505	GT-3, GT-5, GT-8				<b>PS-207</b>	16241-6551-2 16261-6551-1	4	11V	12V
V1500, V1500A, V1501A V1501DA	B7000, L175, L185, L225, L245, L285, L295, L305, L345, L1500, L1501, L1801, L2000, L2200, L2201, L2600, L2601, L3001, M4000, M4500				<b>PS-204</b>	15221-6551-3	4	10.5V	12V
V1502, V1902, VT1502	B1902(DT), L275, L1802, L2002, L2202, L2402, L2602, L2802, L3202, L3602, L4002, L4202(DT), L4212, M4950				<b>PS-202</b>	15521-6551-2	4	10.5V	12V
V1512-DI-L, D1512-DI V1512-DI-T	L1-26, L1-28, L1-33, L1-43, L1-265, L1-285				<b>PS-209</b>	17331-6551-1	4	10.5V	12V
Z500-1	B5001, B-10				<b>PS-201</b>	15951-6551-2	2	10.5V	12V
Z650, Z750, Z751, Z751A, Z851	B7000, L175, L185, L225, L245, L285, L295, L305, L345, L1500, L1501, L1801, L2000, L2200, L2201, L2600, L2601, L3001, M4000, M4500				<b>PS-204</b>	15221-6551-3	2	10.5V	12V

**UNIVERSAL**

D11022-BC DH1302-BBS D1402-BC					<b>PS-202</b>	15521-6551-2	3	10.5V	12V
D662, D722					<b>PS-206</b>	16851-6551-0 16851-6551-2 YE-01	3	11V	12V
D905, D1005, D1105					<b>PS-207</b>	16241-6551-2 16261-6551-1	3	11V	12V
DH850-B					<b>PS-201</b>	15951-6551-2	3	10.5V	12V
E75-NB2 EA300-NB1					<b>PS-201</b>	15951-6551-2	1	10.5V	12V
ER1200-NB ER1400-NB					<b>PS-202</b>	15521-6551-2	1	10.5V	12V
OC52, OC62, OC80, OC95					<b>PS-207</b>	16241-6551-2 16261-6551-1	1	11V	12V
V1205, V1205-T V1305, V1405, V1505					<b>PS-207</b>	16241-6551-2 16261-6551-1	4	11V	12V
V1502-B, V1502-BC V1702-BB, V1702-BBS, V1702-BC					<b>PS-202</b>	15521-6551-2	4	10.5V	12V
Z482, D622, D722					<b>PS-206</b>	16851-6551-0 16851-6551-2 YE-01	2	11V	12V
ZB14-NB, ZB16-NB, ZB18-NB, ZB20-NB					<b>PS-202</b>	15521-6551-2	2	10.5V	12V
ZB400B					<b>PS-201</b>	15951-6551-2	2	10.5V	12V
					<b>PS-200</b>	19215-6551-0 19215-6551-3 Y-149		12.5V	
					<b>PS-219</b>	17529-6551-1 YA-01		12.5V	

**LADA****NIVA I**

XUD9A	2121, 1900 Diesel	01/93	08/99	<b>B-081</b>		4	11V	12V
XUD9SD	2121, 1900 Diesel	01/99	12/06	<b>B-081</b>		4	11V	12V

**LANCIA****DEDRA**

160 D1.000, 835 A4.000, 835 A4.046	1.9 TDS	04/89	07/99	<b>B-081</b>		4	11V	12V
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ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## LANCIA

## DELTA I

831 D1.000	1.9 Turbo DS	10/86	12/89	B-081		4	11V	12V
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## DELTA II

160 D1.000, 835 A4.000	1.9 TD	10/94	08/99	B-084		4	11V	12V
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## DELTA III

198 A2.000, 944 A3.000, 955 A4.000	1.6 D Multijet	08/08	08/14	B-135		4	4.4V	12V
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198 A5.000, 198 A8.000, 844 A2.000	2.0 D Multijet	09/08	08/14	B-135		4	4.4V	12V
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844 A1.000	1.9 D Multijet	01/09	08/14	B-135		4	4.4V	12V
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## KAPPA

838 A3.000, 838 A7.000	2.4 T.DS	08/94	10/01	B-084		5	11V	12V
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838 A8.000	2.4 JTD	06/98	10/01	B-109		5	11V	12V
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## LYBRA

839 A5.000, 839 A6.000, 841 C.000, AR 32501	2.4 JTD	07/99	10/05	B-109		5	11V	12V
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937 A2.000, AR 32302, AR 37101	1.9 JTD	07/99	10/05	B-109		4	11V	12V
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## MUSA

188 A9.000, 199 A3.000, 199 B1.000	1.3 D Multijet	10/04	12/10	B-122	46796050	4	11V	12V
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188 B2.000	1.9 D Multijet	10/04	09/12	B-109		4	11V	12V
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350 A2.000, 350 A3.000	1.6 D Multijet	07/08	09/12	B-135		4	4.4V	12V
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## PHEDRA

4HP, 4HR	2.2 JTD	04/06	11/10	B-124		4	11V	12V
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4HS, 4HT	2.2 D Multijet	03/08	11/10	B-124		4	11V	12V
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4HW (DW12ATED4)	2.2 JTD	09/02	02/04	B-089	9651029780, 9638985980, 9623638380	4	11V	12V
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	2.2 JTD	09/02	11/10	B-131	9652548280	4	11V	12V
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RHK (DW10UTED4)	2.0 JTD	06/06	11/10	B-089		4	11V	12V
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	2.0 JTD	06/06	11/10	B-131	9652548280	4	11V	12V
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RHM (DW10ATED4), RHW (DW10ATED4)	2.0 JTD	09/02	11/10	B-089		4	11V	12V
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	2.0 D Multijet	07/06	11/10	B-089		4	11V	12V
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	2.0 D Multijet	07/06	11/10	B-131	9652548280	4	11V	12V
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## PRISMA

831 D.000	1.9 Diesel (831AB)	01/83	02/92	B-081		4	11V	12V
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831 D1.000	1.9 Turbo Diesel (831AB)	05/85	12/89	B-081		4	11V	12V
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## THEMA

8144.91	2500 Turbo D	11/84	09/88	B-081		4	11V	12V
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8144.97S, 8144.91, 8144.97 Y, 8144.97	2500 Turbo DS	03/87	07/94	B-081		4	11V	12V
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## THESES

841 C.000	2.4 JTD	07/02	07/09	B-109		5	11V	12V
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841 G.000	2.4 JTD	05/03	07/09	B-125		5	11V	12V
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841 M.000, 841 N.000	2.4 JTD	09/03	07/09	B-125		5	11V	12V
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841 P.000	2.4 D Multijet	04/06	07/09	B-125		5	11V	12V
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## YPSILON

188 A9.000	843, 1.3 JTD	10/03	12/11	B-122	46796050	4	11V	12V
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199 A2.000	843, 1.3 D Multijet	09/06	12/10	B-122	46796050	4	11V	12V
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199 A3.000	843, 1.3 D Multijet	09/06	12/11	B-122	46796050	4	11V	12V
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## ZETA

P 8 C	2.1 TD	05/96	09/99	B-081		4	11V	12V
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RHW (DW10ATED4)	2.0 JTD 16V	09/99	09/02	B-089		4	11V	12V
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RHZ (DW10ATED)	2.0 JTD	09/99	09/02	B-089		4	11V	12V
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 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>LAND ROVER</b>																	
<b>88 / 109</b>																	
10 J, 23 J	2.3 D 4x4	09/71	08/83	<b>B-081</b>				4	11V	12V							
	2.3 D 4x4	09/83	12/86	<b>B-081</b>				4	11V	12V							
<b>90 / 110</b>																	
12 J	2.5 D 4x4	09/83	07/90	<b>B-081</b>				4	11V	12V							
19 J	2.5 TD 4x4	09/86	07/90	<b>B-081</b>				4	11V	12V							
<b>DEFENDER</b>																	
10 P, 14 P, 15 P	2.5 Td5 4x4	06/98	11/07	<b>B-118</b>				5	11V	12V							
11 L, 16 L, 23 L	2.5 TDI 4x4	08/90	12/98	<b>B-074</b>				4	11.5V	12V							
12 J	2.5 D 4x4	09/90	02/94	<b>B-081</b>				4	11V	12V							
DT224	2.2 Td4 4x4	08/11	02/16	<b>PZ-713</b>				4	4.4V	12V							
DT244	2.4 Td4 4x4	10/06	02/16	<b>B-101</b>				4	11.5V	12V							
<b>DISCOVERY I</b>																	
12 L, 17 L, 19 L, 21 L	2.5 TDI 4x4	10/89	10/98	<b>B-074</b>				4	11.5V	12V							
19L	2.5 D 4x4	01/96	10/98	<b>B-074</b>				4	11.5V	12V							
<b>DISCOVERY II</b>																	
10 P, 15 P	2.5 Td5 4x4	11/98	06/04	<b>B-118</b>				5	11V	12V							
12 L, 17 L, 19 L, 21 L, 22 L	2.5 TDI	10/95	06/04	<b>B-074</b>				4	11.5V	12V							
<b>DISCOVERY III</b>																	
276DT	2.7 TD 4x4	07/04	09/09	<b>B-134</b>				6	11V	12V							
<b>DISCOVERY IV</b>																	
276DT	2.7 TD 4x4	09/09		<b>B-134</b>	1354289			6	11V								
<b>FREELANDER I</b>																	
20 T2N	2.0 DI 4x4	02/98	10/06	<b>B-096</b>				4	11V	12V							
204D3, M 47	2.0 Td4 4x4	11/00	10/06	<b>B-104</b>				4	11V	12V							
<b>FREELANDER II</b>																	
224DT	2.2 SD4 4x4	08/10	10/14	<b>B-124</b>	LR001302			4	11V	12V							
224DT, DW12BTED4	2.2 eD4	08/10	10/14	<b>B-124</b>	LR001302			4	11V	12V							
	2.2 TD4 4x4	10/06	10/14	<b>B-124</b>	LR001302			4	11V	12V							
<b>RANGE ROVER</b>																	
368DT	3.6 TD 8 4x4	04/06	08/12	<b>B-134</b>	1354289			8	11V								
<b>RANGE ROVER I</b>																	
11 A	2.4 TD 4x4	04/86	12/90	<b>B-049</b>				4	11V	12V							
14 L, 21 L	2.5 TD 4x4	10/89	10/92	<b>B-049</b>				4	11V	12V							
<b>RANGE ROVER II</b>																	
25 6T (BMW)	2.5 D 4x4	07/94	03/02	<b>B-081</b>				6	11V	12V							
<b>RANGE ROVER III</b>																	
306D1	3.0 D 4x4	03/02	08/12	<b>B-104</b>				6	11V	12V							
<b>RANGE ROVER Sport</b>																	
276DT	2.7 D 4x4	02/05	03/13	<b>B-134</b>				6	11V	12V							

<b>LDV</b>																	
<b>200</b>																	
XUD9	1.9 D	10/94	03/96	<b>B-081</b>				4	11V	12V							
<b>400</b>																	
EN 55	2.5 D	04/89	10/96	<b>B-081</b>				4	11V	12V							
ET 70	2.5 D	04/89	03/96	<b>B-081</b>				4	11V	12V							
	2.5 TD	11/95	10/98	<b>B-081</b>				4	11V	12V							
<b>CONVOY</b>																	
EN 55	2.5 D	04/96	02/02	<b>B-081</b>				4	11V	12V							
EN 55, ET 70	2.5 D	04/96	06/06	<b>B-081</b>				4	11V	12V							
EN 55,4HB, EN 55	2.5 DI	10/98	12/06	<b>B-081</b>				4	11V	12V							
ET 70	2.5 TDI	10/98	10/06	<b>B-081</b>				4	11V	12V							
<b>CUB</b>																	
LD23	2.3 D	08/98	09/01	<b>PN-138</b>				4	11V	12V							
<b>MAXUS</b>																	
BS580VM, BS582VM, VM39C, VM40C, VMR425	2.5 D	02/05	12/09	<b>B-127</b>				4	11V	12V							
<b>PILOT</b>																	
XUD9	1.9 D	04/96	10/05	<b>B-081</b>				4	11V	12V							





ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## LEXUS

IS II									
2AD-FHV	220d	08/05	07/12	CP-23		4	11V	12V	
2AD-FTV	200d	07/10	07/12	CP-23		4	11V	12V	

## LTI

TX									
D2FA	2.4 TDi	10/02		B-101		4	11.5V	12V	
R 425 DOHC	2.5 TD	01/06		B-127		4	11V	12V	
TD27	2.7 TD	01/97		PN-135		4	11V	12V	

## MAHINDRA

CJ3									
XDP 290	2.1 D	10/88	09/92	B-081		4	11V	12V	
	2.1 D AWD	10/88	09/92	B-081		4	11V	12V	
CJ5									
XDP 290	2.1 D 4x4	10/87	12/16	B-081		4	11V	12V	

## MAN

TGE									
DAUA, DAUB, DAVA	2.0 TDI	11/16		B-132		3	4.4V	12V	
DAUA, DAVA	2.0 TDI AWD	03/17		B-132		3	4.4V	12V	

## MAZDA

2									
1.6MZ-CD		10/08		PZ-711	Y650-18-601	4	5V	12V	
F6JA, F6JB	1.4 CD	04/03	08/05	B-106		4	11V	12V	
	1.4 CD	09/05	06/07	B-123		4	11V	12V	
S5-DPTR	1.5 3DA-DJ5AS DSL	07/19		CP-62	S550-18-601	4	7V	12V	
	1.5 3DA-DJ5FS DSL	07/19		CP-62	S550-18-601	4	7V	12V	
	1.5 3DA-DJ5FS DSL	06/20		CP-62	S550-18-601	4	7V	12V	
	1.5 LDA-DJ5AS DSL	09/14	11/16	CP-62	S550-18-601	4	7V	12V	
	1.5 LDA-DJ5FS DSL	09/14	11/16	CP-62	S550-18-601	4	7V	12V	
S5-DPTS	1.5 3DA-DJ5AS DSL	07/19		CP-62	S550-18-601	4	7V	12V	
	1.5 3DA-DJ5AS DSL	06/20		CP-62	S550-18-601	4	7V	12V	
	1.5 3DA-DJ5FS DSL	07/19		CP-62	S550-18-601	4	7V	12V	
	1.5 LDA-DJ5AS DSL	01/16	11/16	CP-62	S550-18-601	4	7V	12V	
	1.5 LDA-DJ5AS DSL	09/14	11/16	CP-62	S550-18-601	4	7V	12V	
	1.5 LDA-DJ5AS DSL	04/15	11/16	CP-62	S550-18-601	4	7V	12V	
	1.5 LDA-DJ5FS DSL	04/15	11/16	CP-62	S550-18-601	4	7V	12V	
	1.5 LDA-DJ5FS DSL	11/17	11/17	CP-62	S550-18-601	4	7V	12V	
Y404	1.4 MZR-CD	01/08	06/15	B-123		4	11V	12V	
Y406, Y646	1.6 MZ-CD	10/08	06/15	B-123		4	11V	12V	
3									
BM2AS	2.2 LDA-BM2AS Sports DSL Turbo	07/16	05/19	CP-62	S550-18-601	4	7V	12V	
S8-DPTS	1.8 3DA-BP8P DSL	03/19		CP-62	S550-18-601	4	7V	12V	
	1.8 3DA-BP8P DSL Turbo	03/19		CP-62	S550-18-601	4	7V	12V	
	1.8 3DA-BP8P DSL Turbo	06/20		CP-62	S550-18-601	4	7V	12V	
SH-VPTR	2.2 LDA-BM2FS Sports DSL Turbo	12/13	07/16	CP-62	S550-18-601	4	7V	12V	
SHY1, SHY4, SHY6	2.2 D	09/13	08/14	CP-61	SH01-18-601A, CZ163, DP82, 92703	4	7V	12V	
Y601	1.6 DI Turbo	06/04	06/09	B-106		4	11V	12V	
Y601, Y642, Y650, Y655	1.6 MZR CD	12/08	05/13	B-106		4	11V	12V	
Y642	1.6 MZR CD	12/08	07/11	B-123		4	11V	12V	
	MZR-CD	06/09		PZ-712	R2AA-18-601	4	11V	12V	
5									
RF7J	2.0 CD	02/05	05/10	PZ-704	RF2A-18-601	4	11V	12V	
	1.6MZ-CD	09/10		PZ-711	Y650-18-601	4	5V	12V	



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL












P.V.



B.V.

**MAZDA**

6									
R2AA, R2BF	2.2 D	01/10	12/12	<b>PZ-712</b>		4	11V	12V	
RF5C	2.0 DI	06/02	08/07	<b>PZ-704</b>		4	11V	12V	
	2.0 DI	08/02	08/07	<b>PZ-704</b>		4	11V	12V	
RF7J	2.0 DI	06/05	08/07	<b>PZ-704</b>	RF2A-18-601	4	11V	12V	
SH-VPTR	2.2 3DA-GJ2AP DSL Turbo	04/18	06/19	<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2AP Sedan DSL Turbo	06/19		<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2AP Sedan DSL Turbo	09/20		<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2AP Sedan DSL Turbo	10/20		<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2AW DSL Turbo	09/20		<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2AW Wagon DSL Turbo	06/19		<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2AW Wagon DSL Turbo	10/20		<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2FP DSL Turbo	04/18	06/19	<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2FP Sedan DSL Turbo	01/19		<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2FP Sedan DSL Turbo	09/20		<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2FP Sedan DSL Turbo	10/20		<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2FW DSL Turbo	09/20		<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 3DA-GJ2FW Wagon DSL Turbo	06/19		<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 LDA-BM2FP DSL Turbo	12/15	07/16	<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 LDA-GJ2AP DSL Turbo	01/15	08/16	<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 LDA-GJ2AW Wagon DSL Turbo	01/15	08/16	<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 LDA-GJ2FP DSL Turbo	01/15	08/16	<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 LDA-GJ2FP DSL Turbo	11/12	01/15	<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 LDA-GJ2FP DSL Turbo	11/13	01/15	<b>CP-62</b>	S550-18-601	4	7V	12V	
	2.2 LDA-GJ2FS Wagon DSL Turbo	11/13	01/15	<b>CP-62</b>	S550-18-601	4	7V	12V	
2.2 LDA-GJ2FW Wagon DSL Turbo	01/15	08/16	<b>CP-62</b>	S550-18-601	4	7V	12V		
2.2 LDA-GJ2FW Wagon DSL Turbo	11/12	01/15	<b>CP-62</b>	S550-18-601	4	7V	12V		
SHY1, SHY4, SHY6, SHY8	2.2 D	12/12	08/14	<b>CP-61</b>	SH01-18-601A, CZ163, DP82, 92703	4	7V	12V	
	MZR-CD	01/09		<b>PZ-712</b>	R2AA-18-601	4	11V	12V	
121									
1.8L DiTD	LTX 5 door	03/96		<b>PZ-703</b>	IE07-18-601		11.5V		
121 III									
RTJ, RTK	1.8 D	03/96	04/03	<b>B-088</b>		4	10V	12V	
323 F VI									
RF1G	2.0 D	09/98	05/04	<b>PZ-704</b>		4	11V	12V	
RF4F	2.0 TD	09/98	05/04	<b>PZ-704</b>		4	11V	12V	
323 P V									
RF1G	2.0 D	10/96	09/98	<b>PZ-704</b>		4	11V	12V	
323 S V									
RF1G	2.0 D	10/96	09/98	<b>PZ-704</b>		4	11V	12V	
323 S VI									
RF1G	2.0 D	09/98	05/04	<b>PZ-704</b>		4	11V	12V	
RF3F	2.0 TD	09/98	05/04	<b>PZ-704</b>		4	11V	12V	
RF4F	2.0 DiTD	10/00	10/02	<b>PZ-704</b>		4	11V	12V	
626 II									
RF46	2.0 D	01/83	08/85	<b>PZ-33</b>		4	10.5V	12V	
	2.0 D	08/85	06/87	<b>PZ-39</b>		4	11V	12V	
626 III									
RF-CX	2.0 D Complex	05/93	11/96	<b>PZ-39</b>		4	11V	12V	
RFG5, RF-N	2.0 D	07/87	09/97	<b>PZ-39</b>		4	11V	12V	
626 IV									
RF55	2.0 D GLX Complex	10/92	12/95	<b>PZ-39</b>		4	11V	12V	
626 V									
RF3F	2.0 DiTD	04/98	10/02	<b>PZ-704</b>		4	11V	12V	
RF4F	2.0 TD	10/00	10/02	<b>PZ-704</b>		4	11V	12V	
	2.0 Turbo DI	04/98	10/02	<b>PZ-704</b>		4	11V	12V	
BONGO									
R2	KB-SS28M, KB-SS28V, KB-SE28T, KC-SS28H, KC-SE28M	09/96	06/99	<b>PZ-36</b>	R2L2-18-601	4	11V	12V	
	KC-SD2AM, KC-SD2AT, KC-SD29M, KB-SD29T	05/97	06/99	<b>PZ-36</b>	R2L2-18-601	4	11V	12V	
	KC-SR2AM, KC-SR2AV, KC-SR29V, KC-SD2AM, KC-SD2AT, KC-SD29M, KC-SD29T	08/95	05/97	<b>PZ-37</b>	RFJ5-18-601	4	12V	12V	
	KF-SK22V, KF-SK22T, KF-SK22L, KJ-SK22V, KJ-SK22T, KG-SK22V, KG-SK22M, KG-SK22L, KG-SK24T, KG-SK26T, KG-SK24L, KG-SK26L	06/99		<b>CP-60 JPX-60</b>	RF1M-18-601	4	11V	12V	

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.	
<b>MAZDA</b>									
<b>BONGO</b>									
R2	N-SR2AM, N-SR2AV, N-SR29V, N-SD29M, N-SD29T, N-SD2AT, N-SS28M, N-SE28M, U-SR2AM, U-SR2AV, U-SR29V, U-SD29M, U-SD29T, U-SD2AM, U-SD2AT, U-SE28M, S-SD29T, S-SS28M, Q-SS28R	06/83	08/93	<b>PZ-33</b>	S501-18-140A	4	10.5V	12V	
	U-SR2AM, U-SR2AV, U-SR29V, U-SD29M, U-SD29T, U-SD2AM, U-SD2AT, U-SS28V, U-SE28M, KB-SS28M, KB-SS28V, KB-SE28T, KC-SE28M, KC-SS28V	08/93	09/96	<b>PZ-37</b>	RFJ5-18-601	4	12V	12V	
RF	N-SRF9W, N-SEF8T, N-SSF8V, N-SSF8W, S-SSF8V, S-SEF8T, U-SSF8V, Q-SRF9W, Q-SSF8W	06/83	08/93	<b>PZ-33</b>	S501-18-140A	4	10.5V	12V	
RF iT	Y-SRF9W, Y-SSF8R, 8W, S-SSF8V	08/93	09/95	<b>PZ-702</b>	RFP1-18-601	4	11V	12V	
RF T	KD-SSF8R, KD-SSF8W	09/95	06/99	<b>PZ-702</b>	RFP1-18-601	4	11V	12V	
	Q-SRF9W, Q-SSF8R, Q-SSF8W	08/87	08/93	<b>PZ-33</b>	S501-18-140A	4	10.5V	12V	
	Y-SRF9W, Y-SSF8R, Y-SSF8W, S-SSF8V	08/93	09/95	<b>PZ-37</b>	RFJ5-18-601	4	12V	12V	
S2	K-BA2S8, K-BA2S8H, K-BA2S8V, K-BA2S9, K-BA2S9V, N-BA2S8, N-BA2S9	01/81		<b>PZ-30</b>	1353-18-140 1353-18-140A	4	8.5V	12V	
	K-BA2S8, K-BA2S8V, K-BA2S9, K-BA2S9V	10/79	12/80	<b>PZ-30</b>	1353-18-140 1353-18-140A	4	8.5V	12V	
	N-SS28M	11/86	08/87	<b>PZ-33</b>	S501-18-140A	4	10.5V	12V	
VS	SRF9W	09/94		<b>PZ-702</b>	RFP1-18-601	4	11V	12V	
	U-SRS9V, U-SRSAV, KC-SRS9V, KC-SRSAV	02/92	05/97	<b>PZ-36</b>	VS01-18-601	4	11V	12V	
WL	KC-SD5AM, KC-SD5AT, KC-SD59M, KC-SD59T, KC-SR59V, KC-SR5AM, KC-SR5AV	05/97	06/99	<b>PZ-702</b>	RFP1-18-601	4	11V	12V	
	KG-SK54V, KG-SK56V, KG-SK5HV, KG-SK56M, KG-SK5HM, KG-SK54T, KG-SK56T, KG-SK54L, KG-SK56L	06/99		<b>PZ-702</b>	RFP1-18-601	4	11V	12V	
<b>BONGO BROUNIE</b>									
WL-T	KC-SD5AT, KC-SR5A, KC-SD59T, KC-SD59M, KC-SD2AT	05/95		<b>PZ-39</b>	WL03-18-601	4	11V	12V	
<b>BONGO FRIENDEE</b>									
WL-T	KD-SGL3, KD-SGL5, KD-SGLW, KD-SGLR	11/97	09/99	<b>PZ-39</b>	WL03-18-601	4	11V	12V	
	KH-SGL3, KH-SGL5, KH-SGLW, KH-SGLR	09/99		<b>CP-60 JPX-60</b>	RF1M-18-601	4	11V	12V	
<b>BOXER</b>									
ZC	EZC14, EZC25, EZC55, EZC75	11/74		<b>PM-60</b>	1304-18-140	4	22.5V	24V	
<b>B-SERIE</b>									
MD25NA, WLE7	2.5 D	06/99	11/06	<b>PZ-39</b>		4	11V	12V	
	2.5 D 4WD	06/99	11/06	<b>PZ-39</b>		4	11V	12V	
MD25TI	2.5 TD 4WD	06/99	07/06	<b>PZ-39</b>		4	11V	12V	
R290	2.2 D	11/89	03/96	<b>PZ-39</b>		4	11V	12V	
WL, WL31	2.5 D 4WD	02/96	06/99	<b>PZ-39</b>		4	11V	12V	
	2.5 D	02/96	06/99	<b>PZ-39</b>		4	11V	12V	
<b>BT-50</b>									
MZ-CD2.2	2.2 I4 DOHC 16V TB	2012		<b>PZ-713</b>	U202-18-601	4	4.4V		
MZ-CD3.2	3.2 I5 DOHC 16V TB	2012		<b>PZ-713</b>	U202-18-601	4	4.4V		
MZR-CD		03/06		<b>PZ-710</b>	WE01-18-601	4	11V	12V	
<b>CAPELLA</b>									
RF	KB-GVfV, KB-GVfW, KB-GVfR	09/92		<b>PZ-38</b>	RFG1-18-601	4	11V	12V	
	N-GCFP, Q-GDFP, N-GDFP	09/83		<b>PZ-33</b>	S501-18-140A S201-18-140	4	10.5V	12V	
	N-GDFP, Q-GDFI, Q-GDFP	07/87	07/92	<b>PZ-35</b>	S210-18-140	4	12V	12V	
RFT	KD-GFFP	07/98		<b>PZ-704</b>	RF2A-18-601	4	11V	12V	
<b>CAPELLA WAGON / CARGO</b>									
RF	N-GDFP, Q-GDFI, Q-GDFP	07/87	07/92	<b>PZ-35</b>	S210-18-140	4	12V	12V	
RFT	KD-GFFP	07/98		<b>PZ-704</b>	RF2A-18-601	4	11V	12V	
<b>COSMO</b>									
S2	N-HBPS2		10/83	<b>PZ-35</b>	S210-18-140	4	12V	12V	
<b>CRONOS</b>									
RF	X-GEFP, Y-GEFP	03/92		<b>PZ-38</b>	RFG1-18-601	4	11V	12V	
<b>CX-3</b>									
S5-DPTS	1.5 LDA-DK5AW DSL Turbo	03/15	11/16	<b>CP-62</b>	S550-18-601	4	7V	12V	
	1.5 LDA-DK5FW DSL Turbo	03/15	11/16	<b>CP-62</b>	S550-18-601	4	7V	12V	
S8-DPTR	1.8 3DA-DK8AW DSL Turbo	04/18	09/19	<b>CP-62</b>	S550-18-601	4	7V	12V	
	1.8 3DA-DK8FW DSL Turbo	09/19	09/19	<b>CP-62</b>	S550-18-601	4	7V	12V	
S8-DPTS	1.8 3DA-DK8AW DSL Turbo	04/18	09/19	<b>CP-62</b>	S550-18-601	4	7V	12V	
	1.8 3DA-DK8AW DSL Turbo	07/20		<b>CP-62</b>	S550-18-601	4	7V	12V	
	1.8 3DA-DK8FW DSL Turbo	06/18		<b>CP-62</b>	S550-18-601	4	7V	12V	
	1.8 3DA-DK8FW DSL Turbo	06/20		<b>CP-62</b>	S550-18-601	4	7V	12V	
	1.8 3DA-DK8FW DSL Turbo	09/19	09/19	<b>CP-62</b>	S550-18-601	4	7V	12V	



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**MAZDA****CX-30**

S8-DPTS	1.8 3DA-DM8P DSL	09/19		<b>CP-62</b>	S550-18-601	4	7V	12V
	1.8 3DA-DM8P DSL	06/20		<b>CP-62</b>	S550-18-601	4	7V	12V

**CX-5**

SH-VPTR	2.2 3DA-KF2P DSL Turbo	09/18	12/19	<b>CP-62</b>	S550-18-601	4	7V	12V
SH-VPTS	2.2 DOHC TB	02/12		<b>CP-61</b>	SH01-18-601A	4	7V	
	2.2 3DA-KF2P DSL Turbo	02/18	12/19	<b>CP-62</b>	S550-18-601	4	7V	12V
	2.2 3DA-KF2P DSL Turbo	06/20		<b>CP-62</b>	S550-18-601	4	7V	12V
	2.2 3DA-KF2P DSL Turbo	09/18	12/19	<b>CP-62</b>	S550-18-601	4	7V	12V
	2.2 3DA-KF2P DSL Turbo	12/19		<b>CP-62</b>	S550-18-601	4	7V	12V
	2.2 LDA-KE2AW DSL Turbo	01/15	11/16	<b>CP-62</b>	S550-18-601	4	7V	12V
	2.2 LDA-KE2FW DSL Turbo	01/15	11/16	<b>CP-62</b>	S550-18-601	4	7V	12V

**CX-7**

MZR-CD		09/09		<b>PZ-712</b>	R2AA-18-601	4	11V	12V
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**CX-8**

SH-VPTS	2.2 3DA-KG2P DSL	10/19		<b>CP-62</b>	S550-18-601	4	7V	12V
	2.2 3DA-KG2P DSL Turbo	06/18	10/18	<b>CP-62</b>	S550-18-601	4	7V	12V
	2.2 3DA-KG2P DSL Turbo	10/18	10/19	<b>CP-62</b>	S550-18-601	4	7V	12V
	2.2 3DA-KG2P DSL Turbo	07/20		<b>CP-62</b>	S550-18-601	4	7V	12V

**E-SERIE**

R2	SR, E2200 D	02/97	08/02	<b>PZ-39</b>		4	11V	12V
	SR, E2200 D 4WD	01/87	05/03	<b>PZ-33</b>		4	10.5V	12V
	SR, E2200 D 4WD	02/97	05/03	<b>PZ-39</b>		4	11V	12V
R203, R207	SR, 2200 D 4WD	03/91	05/03	<b>PZ-33</b>		4	10.5V	12V
	SR, E2200 D	01/84	12/03	<b>PZ-33</b>		4	10.5V	12V
R21N	SD, E2200 D	09/99	04/02	<b>PZ-39</b>		4	11V	12V
R281	SD, E2200 D	07/89	03/97	<b>PZ-33</b>		4	10.5V	12V

**EUNOS CARGO**

RF	S-SSF8VE, SEE8TE, U-SSF8VE, Q-SSF8WE, SSE8RE, S-SS28ME, U-SE28ME	11/89	08/93	<b>PZ-33</b>	S501-18-140A	4	10.5V	12V
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**FAMILIA**

4EE1	KD-BHA7R, KD-BHA7P	10/94	06/99	<b>CP-50</b>	Y701-18-601	4	11V	12V
4EE1-T	BHA7R, BHA7P	10/94		<b>CP-50</b>	Y701-18-601	4	11V	12V
CD17	KA-BVSY10, KA-BVSNY10	08/94	06/99	<b>CP-01</b>	1N01-18-601A	4	11V	12V
CD20	KA-BVEY10, KA-BVENY10, KB-VEY10, KB-BVENY10	05/97	06/99	<b>CP-02</b>	1N03-18-601	4	11V	12V
	KD-BWEY10, X-BWEY10	08/94	06/99	<b>CP-02</b>	1N02-18-601	4	11V	12V
PN	N-BF7P, N-BF7V, Q-BF7P, Q-BG7P, S-BF7V, X-BG7P, X-BW7W	08/85	08/94	<b>CP-30</b>	PN11-18-601	4	6.2V	12V
RF	KE-BJEP	06/98		<b>CP-60 JPX-60</b>	RF1M-18-601	4	11V	12V

**J80**

RF	N-SSF8VF	1983		<b>PZ-33</b>	S501-18-140A	4	10.5V	12V
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**LUCE**

S2	K-LA4SS	09/80	09/81	<b>PZ-30</b>	1353-18-140 1353-18-140A	4	8.5V	12V
	N-HBPS2	10/83	09/86	<b>PZ-35</b>	S210-18-140	4	12V	12V

**MPV**

WL-T	KD-LVLW, KD-LVLR	10/95	06/99	<b>PZ-39</b>	WL03-18-601	4	11V	12V
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**MPV II**

RF5C	2.0 DI	07/02	02/06	<b>PZ-704</b>		4	11V	12V
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**MS-6**

RF	Y-GEFP	03/93		<b>PZ-38</b>	RFG1-18-601	4	11V	12V
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**PARKWAY**

HA	K-WVLSF	10/80		<b>PZ-31</b>	SE01-18-140A	4	23V	24V
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**PREMACY**

RF3F, RF4F	2.0 TD	10/99	03/05	<b>PZ-704</b>		4	11V	12V
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**PROCEED LEVANTE**

RF	KD-TF31W	02/95		<b>PZ-38</b>	RFG1-18-601	4	11V	12V
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**PROCEED MARVIE**

WL-T	UVL6R	03/96		<b>PZ-39</b>	WL03-18-601	4	11V	12V
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**SPECTRON**

R2	Y-SSF8W, Y-SSF8R, Y-SRF9W	08/93		<b>PZ-37</b>	RFJ5-18-601	4	12V	12V
RF	N-SSD8WF	1983		<b>PZ-33</b>	S501-18-140A	4	10.5V	12V

**TELSTAR**

RF	X-GEFPF, Y-GEFPF	04/92		<b>PZ-38</b>	RFG1-18-601	4	11V	12V
	N-GCFPF	1983		<b>PZ-33</b>	S501-18-140A	4	10.5V	12V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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## MAZDA

### TELSTAR WAGON

RFT	KD-GWFWF	07/98		<b>PZ-704</b>	RF2A-18-601	4	11V	12V
<b>TITAN</b>								
4HF1	KC-WG3AT, KC-WG34T, KC-WG31T, KC-WGJ4T, KC-WG3AM, KC-WG3AD, KC-WG3AN	06/95		<b>PI-50</b>	YJ01-18-601 YJ02-18-601	4	23V	24V
4HG1	KC-WG64T, KC-WG64H, KC-WG67T, KC-WG61T, KC-WG61H, KC-WG67H, KC-WG6AD, KC-WG6AK, KC-WG61D, KC-WG61K	06/95		<b>PI-50</b>	YJ01-18-601 YJ02-18-601	4	23V	24V
HA	K-WEW0F1, K-WEX0F1, K-WEY0F1, K-WEY0F2, N-WEFAT, N-WEFAD, N-WEFA, N-WEF4C, N-WEF4T	10/80		<b>PZ-31</b>	SE01-18-140A	4	23V	24V
	U-WGFAT	01/92	05/95	<b>PZ-701</b>	SEM1-18-601	4	24V	24V
VS	KC-WGSAT	06/95		<b>PZ-701</b>	SEM1-18-601	4	24V	24V
XA	K-WEW051, N-WE5AT, K-WG5AT	10/84		<b>PZ-31</b>	SE01-18-140A	4	23V	24V
	K-WEW051, N-WE5AT, K-WG5AT	10/84		<b>PZ-33</b>	S501-18-140A	4	10.5V	12V
XC	TA2X4, TA2XD	04/76		<b>PM-60</b>	1304-18-140	4	22.5V	24V
ZB	N-WE11, N-WE11T, N-WE14L, N-WE14T, N-WE17T	01/84	03/87	<b>PZ-31</b>	SE01-18-140A	6	23V	24V

## MERCEDES-BENZ

<b>100</b>								
OM 615.963, OM 615.970	631, 2.0 D	04/88	04/96	<b>B-081</b>		4	11V	12V
OM 616	631, D	12/90	02/91	<b>B-081</b>		4	11V	12V
	631, D	02/91	12/94	<b>B-078</b>		4	11.5V	12V
OM 616.963	631, D (631._0)	02/88	02/91	<b>B-081</b>		4	11V	12V
	631, D (631._0)	02/89	02/96	<b>B-078</b>		4	11.5V	12V
	631, D (631._2)	02/88	02/91	<b>B-081</b>		4	11V	12V
	631, D (631._2)	02/91	02/96	<b>B-078</b>		4	11.5V	12V
OM 616.963, OM 616	631, D (631._3, 631._4)	02/88	02/91	<b>B-081</b>		4	11V	12V
	631, D (631._3, 631._4)	02/91	02/96	<b>B-078</b>		4	11.5V	12V
<b>190</b>								
OM 601.911	W201, D 2.0	08/83	08/93	<b>B-081</b>		4	11V	12V
OM 602.911	W201, D 2.5	02/89	08/93	<b>B-078</b>		5	11.5V	12V
	W201, D 2.5	04/85	01/89	<b>B-081</b>		5	11V	12V
OM 602.961	W201, Turbo-D 2.5 (201.128)	02/88	08/93	<b>B-078</b>		5	11.5V	12V
<b>/8</b>								
OM 615.912	W115, 220 D (115.110)	01/68	01/77	<b>B-081</b>		4	11V	12V
OM 615.913	W115, 200 D (115.115)	01/68	01/77	<b>B-081</b>		4	11V	12V
OM 617.910	W115, 240 D 3.0 (115.114)	08/74	11/76	<b>B-081</b>		5	11V	12V
<b>A-CLASS</b>								
OM 607.951	W176, A 160 CDI / d (176.011)	06/13		<b>PN-900</b>		4	4.4V	12V
	W176, A 180 CDI / d 1.5 (176.012)	06/12		<b>PN-900</b>		4	4.4V	12V
OM 640.940	W169, A 180 CDI (169._07)	09/04	06/12	<b>B-129</b>		4	4.4V	12V
OM 640.941	W169, A 200 CDI (169._08)	09/04	06/12	<b>B-129</b>		4	4.4V	12V
OM 640.942	W169, A 160 CDI (169._06)	09/04	06/12	<b>B-129</b>		4	4.4V	12V
OM 668.940	W168, A 160 CDI (168._06)	02/01	08/04	<b>B-112</b>		4	11.5V	12V
	W168, A 170 CDI (168._08)	07/98	02/01	<b>B-112</b>		4	11.5V	12V
OM 668.941	W168, A 160 CDI (168._07)	07/98	02/01	<b>B-112</b>		4	11.5V	12V
OM 668.942	W168, A 170 CDI (168._09)	02/01	08/04	<b>B-112</b>		4	11.5V	12V
<b>B-CLASS</b>								
OM 607.951	W242, W246, B 160 CDI / d (246.211)	05/13		<b>PN-900</b>		4	4.4V	12V
	W242, W246, B 180 CDI / d 1.5 (246.212)	02/13		<b>PN-900</b>		4	4.4V	12V
OM 640.940	W245, B 180 CDI (245.207)	03/05	11/11	<b>B-129</b>		4	4.4V	12V
OM 640.941	W245, B 200 CDI (245.208)	03/05	11/11	<b>B-129</b>		4	4.4V	12V
<b>C-CLASS</b>								
OM 601.913	202, C 200 D (202.120)	03/93	05/00	<b>B-078</b>		4	11.5V	12V
OM 604.910	202, C 220 D (202.021)	07/96	05/00	<b>B-082</b>	A0011592001, A0011592101	4	11.5V	12V
	202, C 220 D (202.021)	07/96	05/00	<b>B-095</b>	A0011591501, A0011591601	4	11.5V	12V
	202, C 220 D (202.121)	08/93	05/00	<b>B-082</b>	A0011592001, A0011592101	4	11.5V	12V
	202, C 220 D (202.121)	08/93	05/00	<b>B-095</b>	A0011591501, A0011591601	4	11.5V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**MERCEDES-BENZ****C-CLASS**

OM 604.910	202, C 220 T D (202.182)	06/96	03/01	<b>B-082</b>	A0011592001, A0011592101	4	11.5V	12V
	202, C 220 T D (202.182)	06/96	03/01	<b>B-095</b>	A0011591501, A0011591601	4	11.5V	12V
OM 604.915	202, C 200 D (202.122)	10/96	05/00	<b>B-082</b>		4	11.5V	12V
	202, C 200 T D (202.180)	10/96	03/01	<b>B-082</b>		4	11.5V	12V
OM 605.910	202, C 250 D (202.125)	05/93	05/00	<b>B-082</b>	A0011592001, A0011592101	5	11.5V	12V
	202, C 250 D (202.125)	05/93	05/00	<b>B-095</b>	A0011591501, A0011591601	5	11.5V	12V
OM 605.960	202, C 250 T Turbo-D (202.188)	06/96	03/01	<b>B-082</b>		5	11.5V	12V
	202, C 250 Turbo-D (202.128)	10/95	05/00	<b>B-082</b>		5	11.5V	12V
OM 611.960	202, C 200 CDI (202.134)	03/98	05/00	<b>B-099</b>		4	11.5V	12V
	202, C 200 T CDI (202.194)	03/98	03/01	<b>B-099</b>		4	11.5V	12V
	202, C 220 CDI (202.133)	09/97	05/00	<b>B-099</b>		4	11.5V	12V
	202, C 220 T CDI (202.193)	09/97	03/01	<b>B-099</b>		4	11.5V	12V
OM 611.962, OM 646.962	203, C 200 CDI (203._04)	09/00	08/07	<b>B-099</b>		4	11.5V	12V
OM 611.962, OM 646.963	203, C 220 CDI (203._06)	05/00	08/07	<b>B-099</b>		4	11.5V	12V
OM 612.962	203, C 270 CDI (203._16)	12/00	08/07	<b>B-099</b>		5	11.5V	12V
OM 626.951	205, C 180 BlueTEC / d (205._36)	05/14	05/18	<b>PN-901</b>	A6221590001	4	4.5V	12V
	205, C 200 BlueTEC / d (205._37)	05/14	05/18	<b>PN-901</b>	A6221590001	4	4.5V	12V
OM 642.910	203, C 320 CDI (203._20)	01/05	08/07	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.960	204, C 320 CDI (204._22)	01/07	08/14	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	204, C 350 CDI (204._22)	07/09	01/14	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.961	204, C 320 CDI 4-matic (204._89)	07/07	01/14	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	204, C 350 CDI 4-matic (204._89)	07/09	01/14	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 646.962, OM 646.963	203, C 200 CDI (203._07)	04/03	08/07	<b>B-099</b>		4	11.5V	12V
OM 646.963	203, C 220 CDI (203._08)	02/03	08/07	<b>B-099</b>		4	11.5V	12V

**C-CLASS Coupe**

OM 611.962	CL203, C 220 CDI	03/01	01/04	<b>B-099</b>		4	11.5V	12V
	CL203, C 220 CDI (203._06)	03/01	01/04	<b>B-099</b>		4	11.5V	12V
OM 646.962	CL203, C 200 CDI (203._07)	03/03	05/08	<b>B-099</b>		4	11.5V	12V
OM 646.963	CL203, C 220 CDI (203._08)	02/04	05/08	<b>B-099</b>		4	11.5V	12V

**CITAN**

OM 607.951	415, 108 CDI	11/12		<b>PN-900</b>		4	4.4V	12V
	415, 109 CDI	11/12		<b>PN-900</b>		4	4.4V	12V
	415, 111 CDI	06/13		<b>PN-900</b>		4	4.4V	12V

**CLA Coupe**

OM 607.951	C117, CLA 180 CDI / d (117.312)	10/13		<b>PN-900</b>		4	4.4V	12V
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**CLA Shooting Brake**

OM 607.951	X117, CLA 180 d (117.912)	07/15		<b>PN-900</b>		4	4.4V	12V
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**CLC**

OM 646.962	CL203, CLC 200 CDI (203.707)	05/08	06/11	<b>B-099</b>		4	11.5V	12V
OM 646.963	CL203, CLC 220 CDI (203.708)	05/08	06/11	<b>B-099</b>		4	11.5V	12V

**CLK**

OM 612.962, OM 612.967	209, CLK 220 CDI (209._08)	10/02	05/09	<b>B-099</b>		5	11.5V	12V
OM 642.910	209, CLK 220 CDI (209._08)	01/05	05/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	209, CLK 320 CDI (209._20)	03/05	03/10	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 646.966	209, CLK 220 CDI (209._08)	01/05	05/09	<b>B-099</b>		4	11.5V	12V

**CLS**

OM 642.920	C219, CLS 320 CDI	01/05	12/10	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	C219, CLS 320 CDI (219.322)	01/05	12/10	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	C219, CLS 350 CDI	04/09	12/10	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	C219, CLS 350 CDI (219.322)	04/09	12/10	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V





ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

# MERCEDES-BENZ

## COUPE

OM 617.952	C123, 300 C Turbo-D (123.153)	09/81	07/85	<b>B-081</b>		5	11V	12V
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## E-CLASS

OM 601.912	124, E 200 D (124.120)	06/93	06/95	<b>B-078</b>		4	11.5V	12V
	124, E 200 D (124.120)	06/93	06/95	<b>B-082</b>		4	11.5V	12V
OM 602.962	124, E 250 Turbo-D (124.128)	06/93	06/96	<b>B-078</b>		5	11.5V	12V
OM 602.982	210, E 290 Turbo-D (210._17)	03/96	07/99	<b>B-067</b>		5	11.5V	12V
	210, E 290 Turbo-D (210._17)	06/96	07/99	<b>B-099</b>		5	11.5V	12V
OM 603.960	124, E 300 T Turbo-D (124.193)	06/93	06/96	<b>B-081</b>		6	11V	12V
	124, E 300 Turbo-D (124.133)	06/93	06/95	<b>B-081</b>		6	11V	12V
OM 603.963	124, E 300 T Turbo-D 4-matic (124.393)	06/93	06/96	<b>B-081</b>		6	11V	12V
	124, E 300 Turbo-D 4-matic (124.333)	06/93	06/95	<b>B-081</b>		6	11V	12V
OM 604.912	210, E 220 D	05/96	03/02	<b>B-082</b>		4	11.5V	12V
	210, E 220 D (210._04)	06/95	07/99	<b>B-082</b>		4	11.5V	12V
OM 604.917	210, E 200 D (210._03)	01/96	03/02	<b>B-082</b>		4	11.5V	12V
OM 605.911	124, E 250 D (124.126, 124.129)	07/93	06/95	<b>B-095</b>		5	11.5V	12V
	124, E 250 TD (124.186)	06/93	06/96	<b>B-095</b>		5	11.5V	12V
OM 605.912	210, E 250 D (210._10)	06/95	07/99	<b>B-082</b>		5	11.5V	12V
OM 605.962	210, E 250 Turbo-D (210._15)	06/97	07/99	<b>B-082</b>		5	11.5V	12V
OM 606.910	124, E 300 D (124.131)	07/93	06/95	<b>B-095</b>		6	11.5V	12V
	124, E 300 TD (124.191)	06/93	06/96	<b>B-095</b>		6	11.5V	12V
OM 606.912	210, E 300 D (210._20)	06/95	06/97	<b>B-082</b>		6	11.5V	12V
OM 606.962	210, E 300 Turbo-D (210._25)	12/96	07/99	<b>B-082</b>		6	11.5V	12V
OM 611.961	210, E 200 CDI (210._07)	06/98	03/02	<b>B-099</b>		4	11.5V	12V
	210, E 220 CDI (210._06)	06/98	03/03	<b>B-099</b>		4	11.5V	12V
OM 612.961	210, E 270 CDI	02/00	03/03	<b>B-099</b>		5	11.5V	12V
	210, E 270 CDI (210._16)	07/99	03/03	<b>B-099</b>		5	11.5V	12V
OM 613.961	210, E 320 CDI (210._26)	07/99	03/03	<b>B-099</b>		6	11.5V	12V
OM 628.961	211, E 400 CDI (211._28)	02/03	12/08	<b>B-099</b>		8	11.5V	12V
OM 629.910	211, E 420 CDI (211._29)	01/06	12/08	<b>B-129</b>		8	4.4V	12V
OM 642.850	212, E 300 CDI (212._20)	12/09	12/10	<b>B-129</b>		6	4.4V	12V
	212, E 300 CDI / BlueTEC (212._20, 212._21, 212._27)	03/11	06/12	<b>B-129</b>		6	4.4V	12V
	212, E 300 CDI / BlueTEC (212._27, 212._21)	11/09	06/12	<b>B-129</b>		6	4.4V	12V
	212, E 350 BlueTEC (212._24)	01/09	06/12	<b>B-129</b>		6	4.4V	12V
	212, E 350 CDI (212._25)	01/09	06/12	<b>B-129</b>		6	4.4V	12V
OM 642.910, OM 642.921	211, E 320 CDI 4-matic (211._89)	03/05	07/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.920	211, E 280 CDI (211._20)	03/05	07/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	211, E 300 BlueTEC (211._24)	09/07	12/08	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	211, E 320 CDI (211._22)	03/05	07/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.921	211, E 280 CDI 4-matic (211._84)	03/05	07/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 646.951	211, E 200 CDI (211._04)	07/02	12/08	<b>B-099</b>		4	11.5V	12V
OM 646.961	211, E 220 CDI (211._06)	03/02	07/09	<b>B-099</b>		4	11.5V	12V
OM 647.961	211, E 270 CDI (211._16)	03/02	07/09	<b>B-099</b>		5	11.5V	12V
OM 648.961	211, E 280 CDI (211._23)	05/04	07/09	<b>B-099</b>		6	11.5V	12V
	211, E 320 CDI (211._26)	11/02	07/09	<b>B-099</b>		6	11.5V	12V

## G-CLASS

OM 602.930	W460, 250 GD	10/87	01/89	<b>B-081</b>		5	11V	12V
	W460, 250 GD	12/88	12/92	<b>B-078</b>		5	11.5V	12V
OM 602.931	W463, 250 GD (463.324, 463.325)	06/90	10/92	<b>B-078</b>		5	11.5V	12V
OM 602.939	W461, 250 GD	02/90	05/93	<b>B-078</b>		5	11.5V	12V
OM 602.942	W461, 290 GD/G 290 D	06/93	07/00	<b>B-078</b>		5	11.5V	12V
OM 602.983	W461, G 290 TD	07/97		<b>B-078</b>		5	11.5V	12V
OM 603.931	W463, 300 GD / G 300 (463.307)	12/90	09/97	<b>B-081</b>		6	11V	12V
	W463, 300 GD / G 300 (463.327, 463.328)	09/89	06/93	<b>B-081</b>		6	11V	12V
OM 603.972	W463, 350 G Turbo-D (463.300)	09/91	09/97	<b>B-081</b>		6	11V	12V
	W463, 350 Turbo GD (463.320, 463.321)	09/91	08/96	<b>B-081</b>		6	11V	12V
OM 606.964	W463, G 300 TD (463.308)	09/96	07/00	<b>B-082</b>		6	11.5V	12V
	W463, G 300 TD (463.330, 463.331)	08/96	07/00	<b>B-082</b>		6	11.5V	12V
OM 612.965	W463, G 270 CDI (463.322, 463.323)	10/01		<b>B-099</b>		5	11.5V	12V
OM 612.966	W461, G 270 CDI	01/03		<b>B-099</b>		5	11.5V	12V
OM 616.936	W460, 240 GD	08/80	08/87	<b>B-081</b>		4	11V	12V





ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## MERCEDES-BENZ

### G-CLASS

OM 617.931	W460, 300 GD	12/79	12/91	<b>B-078</b>		5	11.5V	12V
	W460, 300 GD	12/79	12/91	<b>B-081</b>		5	11V	12V
OM 628.962	W463, G 400 CDI (463.309)	12/00		<b>B-099</b>		8	11.5V	12V
	W463, G 400 CDI (463.332, 463.333)	12/00		<b>B-099</b>		8	11.5V	12V
OM 642.884	W461, G 300 CDI	04/10	06/12	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.884, OM 642.975	W461, G 280 CDI	04/09	06/12	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V

### GLA

OM 607.951	X156, GLA 180 CDI / d (156.912)	07/14		<b>PN-900</b>		4	4.4V	12V
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### GL-CLASS

OM 629.912	X164, GL 420 CDI 4-matic (164.828)	09/06	05/09	<b>B-129</b>		8	4.4V	12V
	X164, GL 450 CDI 4-matic (164.828)	05/09	08/12	<b>B-129</b>		8	4.4V	12V
OM 642.940	X164, GL 320 CDI 4-matic (164.822)	09/06	05/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	X164, GL 350 CDI 4-matic (164.822)	05/09	08/12	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V

### GLK

OM 642.961	X204, 320 CDI 4-matic (204.983)	06/08	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
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### HENSCHEL 2-t

OM 615.917, OM 615.937, OM 615.939	206 D 2.2	02/73	12/77	<b>B-081</b>		4	11V	12V
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### KOMBI

OM 601.912	S124, 200 T D (124.180)	09/85	01/89	<b>B-081</b>		4	11V	12V
	S124, 200 T D (124.180)	02/89	08/91	<b>B-078</b>		4	11.5V	12V
OM 602.912	S124, 250 T D (124.185)	09/85	01/89	<b>B-081</b>		5	11V	12V
	S124, 250 T D (124.185)	01/89	06/93	<b>B-078</b>		5	11.5V	12V
OM 602.962	S124, 250 TD Turbo (124.188)	03/88	01/89	<b>B-081</b>		5	11V	12V
	S124, 250 TD Turbo (124.188)	02/89	07/93	<b>B-078</b>		5	11.5V	12V
OM 603.912	S124, 300 T D (124.190)	09/86	06/93	<b>B-081</b>		6	11V	12V
OM 603.960	S124, 300 T Turbo-D (124.193)	01/89	06/93	<b>B-081</b>		6	11V	12V
OM 603.960, OM 603.963	S124, 300 T Turbo-D	09/86	01/89	<b>B-081</b>		6	11V	12V
	S124, 300 T Turbo-D 4-matic (124.393)	09/86	06/93	<b>B-081</b>		6	11V	12V
OM 616.912	S123, 240 T D (123.183)	08/80	12/85	<b>B-081</b>		4	11V	12V
OM 617.912	S123, 300 T D (123.190)	09/77	11/85	<b>B-081</b>		5	11V	12V
OM 617.952	S123, 300 T Turbo-D (123.193)	10/80	11/85	<b>B-081</b>		5	11V	12V

### M-CLASS

OM 612.963	W163, ML 270 CDI (163.113)	12/99	06/05	<b>B-099</b>		5	11.5V	12V
OM 628.963	W163, ML 400 CDI (163.128)	09/01	06/05	<b>B-099</b>		8	11.5V	12V
OM 629.912	W164, ML 420 CDI 4-matic (164.128)	02/06	09/09	<b>B-129</b>		8	4.4V	12V
	W164, ML 450 CDI 4-matic (164.128)	09/09	12/11	<b>B-129</b>		8	4.4V	12V
OM 642.940	W164, ML 280 CDI 4-matic (164.120)	07/05	07/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	W164, ML 300 CDI 4-matic (164.120)	07/09	12/11	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	W164, ML 320 CDI 4-matic (164.122)	07/05	07/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	W164, ML 350 CDI 4-matic (164.122)	07/09	12/11	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V

### R-CLASS

OM 642.950	251, R 280 CDI (251._21, 251._26)	05/06	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	251, R 280 CDI 4-matic (251._20)	05/06	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	251, R 300 CDI (251._21, 251._26)	07/09	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	251, R 300 CDI 4-matic (251._20)	07/09	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	251, R 320 CDI 4-matic (251._22)	01/06	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	251, R 350 CDI 4-matic (251._22)	07/09	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	251, R 350 CDI 4-matic (251._24, 251._25)	01/06	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V

### Saloon

OM 601.912	W124, 200 D (124.120)	02/89	06/93	<b>B-078</b>		4	11.5V	12V
	W124, 200 D (124.120)	12/84	01/89	<b>B-081</b>		4	11V	12V



ENGINE



MODEL



M/Y START



M/Y END



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B.V.

## MERCEDES-BENZ

### Saloon

OM 602.912	W124, 250 D (124.125)	01/88	06/93	<b>B-078</b>		5	11.5V	12V
	W124, 250 D (124.125)	04/85	12/87	<b>B-081</b>		5	11V	12V
OM 602.962	W124, 250 Turbo-D (124.128)	09/88	06/93	<b>B-078</b>		5	11.5V	12V
OM 603.912	W124, 300 D (124.130)	12/84	06/93	<b>B-081</b>		6	11V	12V
OM 603.913	W124, 300 D 4-matic (124.330)	09/86	06/93	<b>B-081</b>		6	11V	12V
OM 603.960, OM 603.963	W124, 300 Turbo-D (124.133)	09/86	06/93	<b>B-081</b>		6	11V	12V
	W124, 300 Turbo-D 4-matic (124.333)	09/86	06/93	<b>B-081</b>		6	11V	12V
OM 615.940	W123, 200 D	03/79	11/85	<b>B-081</b>		4	11V	12V
	W123, 200 D (123.120)	07/76	02/79	<b>B-081</b>		4	11V	12V
OM 615.941	W123, 220 D	01/77	03/79	<b>B-081</b>		4	11V	12V
	W123, 220 D (123.126)	01/76	02/79	<b>B-081</b>		4	11V	12V
OM 616.912	W123, 240 D (123.123)	08/80	11/85	<b>B-081</b>		4	11V	12V
OM 617.912	W123, 300 D (123.130)	02/76	11/85	<b>B-081</b>		5	11V	12V
OM 617.952	W123, 300 Turbo-D (123.133)	08/81	07/85	<b>B-081</b>		5	11V	12V

### S-CLASS

OM 603.971	W140, S 350 Turbo-D (140.134)	01/93	10/98	<b>B-081</b>		6	11V	12V
OM 606.961	W140, S 300 Turbo-D (140.135)	05/96	10/98	<b>B-082</b>		6	11.5V	12V
OM 613.960	W220, S 320 CDI (220._26)	08/99	09/02	<b>B-099</b>		6	11.5V	12V
OM 628.960	W220, S 400 CDI (220._28)	06/00	08/05	<b>B-099</b>		8	11.5V	12V
OM 629.911	W221, S 420 CDI (221._28)	10/06	06/09	<b>B-129</b>		8	4.4V	12V
OM 642.930	W221, S 320 CDI (221._22)	10/05	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	W221, S 350 CDI	06/09	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.932	W221, S 320 CDI 4-matic (221._80)	10/05	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 648.960	W220, S 320 CDI (220._25)	09/02	08/05	<b>B-099</b>		6	11.5V	12V

### SPRINTER 2-t

OM 601.943	901902, 2.3 208 D	01/95	04/00	<b>B-078</b>		4	11.5V	12V
OM 602.980	901902, 2.9 210 D	01/97	04/00	<b>B-067</b>		5	11.5V	12V
	901902, 2.9 212 D	02/95	04/00	<b>B-067</b>		5	11.5V	12V
	901902, 2.9 212 D	02/95	04/00	<b>B-081</b>		5	11V	12V
OM 611.981	901902, 2.1 211 CDI	04/00	05/06	<b>B-099</b>		4	11.5V	12V
	901902, 2.1 213 CDI	04/00	05/06	<b>B-099</b>		4	11.5V	12V
OM 611.987	901902, 2.1 208 CDI	04/00	05/06	<b>B-099</b>		4	11.5V	12V
OM 612.981	901902, 2.7 216 CDI	04/00	05/06	<b>B-099</b>		5	11.5V	12V

### SPRINTER 3,5-t

OM 642.896	906, 3.0 318 CDI	06/06	12/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	906, 3.0 318 CDI 4x4	02/08	12/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.896, OM 642.898	906, 3.0 319 CDI / BlueTEC	03/09	06/12	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	906, 3.0 319 CDI / BlueTEC 4x4	03/09	06/12	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.992	906, 3.0 319 CDI / BlueTEC	03/09	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	906, 3.0 319 CDI / BlueTEC 4x4	03/09	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.992, OM 642.993	906, 3.0 318 CDI	06/06	12/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	906, 3.0 318 CDI 4x4	02/08	12/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 646.984	906, 2.1 309 CDI	06/06	12/09	<b>B-099</b>		4	11.5V	12V
OM 646.985	906, 2.1 311 CDI	06/06	12/09	<b>B-099</b>		4	11.5V	12V
	906, 2.1 311 CDI 4x4	02/08	12/09	<b>B-099</b>		4	11.5V	12V
OM 646.986	906, 2.1 313 CDI	06/06		<b>B-099</b>		4	11.5V	12V
OM 646.986, OM 646.989, OM 646.990	906, 2.1 315 CDI	06/06	12/09	<b>B-099</b>		4	11.5V	12V
	906, 2.1 315 CDI 4x4	02/08	12/09	<b>B-099</b>		4	11.5V	12V

### SPRINTER 3-t

OM 601.943	903, 2.3 308 D 2.3	02/95	04/00	<b>B-078</b>		4	11.5V	12V
OM 602.980	903, 2.9 310 D 2.9	02/95	04/00	<b>B-067</b>		5	11.5V	12V
	903, 2.9 310 D 2.9	02/95	04/00	<b>B-081</b>		5	11V	12V
	903, 2.9 310 D 4x4	05/97	08/02	<b>B-067</b>		5	11.5V	12V
	903, 2.9 310 D 4x4	05/97	08/02	<b>B-081</b>		5	11V	12V
	903, 2.9 312 D 2.9	02/95	04/00	<b>B-067</b>		5	11.5V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## MERCEDES-BENZ

### SPRINTER 3-t

OM 602.980	903, 2.9 312 D 2.9	02/95	04/00	<b>B-081</b>		5	11V	12V
	903, 2.9 312 D 2.9	12/98	09/01	<b>B-067</b>		5	11.5V	12V
	903, 2.9 312 D 2.9	12/98	09/01	<b>B-081</b>		5	11V	12V
	903, 2.9 312 D 2.9 4x4	05/97	08/02	<b>B-067</b>		5	11.5V	12V
	903, 2.9 312 D 2.9 4x4	05/97	08/02	<b>B-081</b>		5	11V	12V
OM 611.981	903, 2.1 311 CDI	04/00	05/06	<b>B-099</b>		4	11.5V	12V
	903, 2.1 311 CDI 4x4	08/02	05/06	<b>B-099</b>		4	11.5V	12V
	903, 2.1 313 CDI	04/00	05/06	<b>B-099</b>		4	11.5V	12V
	903, 2.1 313 CDI 4x4	08/02	05/06	<b>B-099</b>		4	11.5V	12V
OM 611.987	903, 2.1 308 CDI	04/00	05/06	<b>B-099</b>		4	11.5V	12V
OM 612.981, OM 647.981	903, 2.7 316 CDI	04/00	05/06	<b>B-099</b>		5	11.5V	12V
	903, 2.7 316 CDI 4x4	08/02	05/06	<b>B-099</b>		5	11.5V	12V
OM 642.896	906, 3.0 218 CDI	06/06	12/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	906, 3.0 219 CDI / BlueTEC	03/09	06/12	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.992	906, 3.0 219 CDI / BlueTEC	03/09	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.992, OM 642.993	906, 3.0 218 CDI	06/06	12/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 646.984	906, 2.1 209 CDI	06/06	12/09	<b>B-099</b>		4	11.5V	12V
OM 646.985	906, 2.1 211 CDI	06/06	12/09	<b>B-099</b>		4	11.5V	12V
OM 646.986	906, 2.1 213 CDI	06/06	12/09	<b>B-099</b>		4	11.5V	12V
OM 646.986, OM 646.989, OM 646.990	906, 2.1 215 CDI	06/06	12/09	<b>B-099</b>		4	11.5V	12V

### SPRINTER 4,6-t

OM 642.896	906, 3.0 418 CDI	06/06	06/12	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.896, OM 642.898	906, 3.0 419 CDI	03/09	06/12	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.896, OM 642.992	906, 3.0 419 CDI	03/09	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.992, OM 642.993	906, 3.0 418 CDI	06/06	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 646.985	906, 2.1 411 CDI	06/09	12/18	<b>B-099</b>		4	11.5V	12V
OM 646.986, OM 646.989, OM 646.990	906, 2.1 415 CDI	06/06	12/09	<b>B-099</b>		4	11.5V	12V

### SPRINTER 4-t

OM 601.943	904, 2.3 408 D	02/96	05/06	<b>B-078</b>		4	11.5V	12V
OM 602.980	904, 2.9 410 D	02/96	05/06	<b>B-067</b>		5	11.5V	12V
	904, 2.9 410 D	02/96	05/06	<b>B-078</b>		5	11.5V	12V
	904, 2.9 410 D 4x4	05/97	05/06	<b>B-067</b>		5	11.5V	12V
	904, 2.9 410 D 4x4	05/97	05/06	<b>B-078</b>		5	11.5V	12V
	904, 2.9 412 D	02/96	05/06	<b>B-067</b>		5	11.5V	12V
	904, 2.9 412 D	02/96	05/06	<b>B-081</b>		5	11V	12V
	904, 2.9 412 D 4x4	05/97	05/06	<b>B-067</b>		5	11.5V	12V
	904, 2.9 412 D 4x4	05/97	05/06	<b>B-081</b>		5	11V	12V
	904, 2.9 412 D 4x4	05/97	05/06	<b>B-081</b>		5	11V	12V
OM 611.981	904, 2.1 411 CDI	04/00	05/06	<b>B-099</b>		4	11.5V	12V
	904, 2.1 411 CDI 4x4	04/00	05/06	<b>B-099</b>		4	11.5V	12V
	904, 2.1 413 CDI	04/00	05/06	<b>B-099</b>		4	11.5V	12V
	904, 2.1 413 CDI 4x4	04/00	05/06	<b>B-099</b>		4	11.5V	12V
OM 611.987	904, 2.1 408 CDI	04/00	05/06	<b>B-099</b>		4	11.5V	12V
OM 612.981, OM 647.981	904, 2.7 416 CDI	04/00	05/06	<b>B-099</b>		5	11.5V	12V
	904, 2.7 416 CDI 4x4	04/00	05/06	<b>B-099</b>		5	11.5V	12V

### SPRINTER 5-t

OM 612.981	905, 2.7 616 CDI	04/01		<b>B-099</b>		5	11.5V	12V
OM 642.896	906, 3.0 518 CDI	06/06	12/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	906, 3.0 518 CDI 4x4	06/06	12/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.896, OM 642.898	906, 3.0 519 CDI / BlueTEC	03/09	06/12	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	906, 3.0 519 CDI / BlueTEC 4x4	03/09	06/12	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

# MERCEDES-BENZ

## SPRINTER 5-t

OM 642.992	906, 3.0 519 CDI / BlueTEC	03/09	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	906, 3.0 519 CDI / BlueTEC 4x4	03/09	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 642.992, OM 642.993	906, 3.0 518 CDI	06/06	12/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
	906, 3.0 518 CDI 4x4	06/06	12/09	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 646.984	906, 2.1 509 CDI	06/06	12/09	<b>B-099</b>		4	11.5V	12V
OM 646.985	906, 2.1 511 CDI	06/06	12/09	<b>B-099</b>		4	11.5V	12V
	906, 2.1 511 CDI 4x4	06/06	12/09	<b>B-099</b>		4	11.5V	12V
OM 646.986	906, 2.1 513 CDI	06/06		<b>B-099</b>		4	11.5V	12V
OM 646.986, OM 646.989, OM 646.990	906, 2.1 515 CDI	06/06	12/09	<b>B-099</b>		4	11.5V	12V
	906, 2.1 515 CDI 4x4	06/06	12/09	<b>B-099</b>		4	11.5V	12V

## SPRINTER Classic

OM 646.701	909, 2.1 311 CDI	09/13		<b>B-099</b>		4	11.5V	12V
	909, 2.1 411 CDI	09/13		<b>B-099</b>		4	11.5V	12V

## T1

OM 601.940	601, 2.3 D 208	10/88	02/96	<b>B-078</b>		4	11.5V	12V
	602, 2.3 D 308	11/88	02/96	<b>B-078</b>		4	11.5V	12V
OM 602.940	601, 2.9 D 210	10/88	02/96	<b>B-078</b>		5	11.5V	12V
	602, 2.9 D 310	06/89	02/96	<b>B-078</b>		5	11.5V	12V
OM 616.937, OM 616.939	601, 2.4 D 407	06/82	01/90	<b>B-081</b>		4	11V	12V
	602, 2.4 D 307	06/82	01/90	<b>B-081</b>		4	11V	12V
OM 617.913	601, 2.9 D 209	12/82	01/90	<b>B-081</b>		5	11V	12V
	602, 3.0 D 309	10/82	01/90	<b>B-081</b>		5	11V	12V

## T1 / TN

OM 601.940	611, 2.3 408 D	11/88	06/95	<b>B-078</b>		4	11.5V	12V
OM 602.940	611, 2.9 410 D	11/88	06/95	<b>B-078</b>		5	11.5V	12V
OM 616.913, OM 616.939	611, 2.4 407 D	07/81	01/89	<b>B-081</b>		4	11V	12V
OM 617.913	611, 3.0 409 D	04/82	01/89	<b>B-081</b>		5	11V	12V

## T2 / L

OM 615	309310328, 2.2 L 405 D	01/72	12/80	<b>B-081</b>		4	11V	12V
OM 615.910	309310328, 2.2 L 406 DG	01/68	12/74	<b>B-081</b>		4	11V	12V
OM 616.910, OM 616.917	309310328, 2.4 L 407 D	09/82	12/88	<b>B-081</b>		4	11V	12V

## T2 / LN1

OM 601.941	2.3 508 D	03/89	12/94	<b>B-078</b>		4	11.5V	12V
OM 616.914	2.4 507 D	04/86	04/89	<b>B-081</b>		4	11V	12V

## VANEO

OM 668.914	414, 1.7 CDI (414.700)	02/02	07/05	<b>B-112</b>		4	11.5V	12V
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## VARIO

OM 602.984	2.9 512 D	09/96	12/10	<b>B-067</b>		5	11.5V	12V
OM 602.984, OM 602.985	2.9 612 D	09/96	12/10	<b>B-067</b>		5	11.5V	12V
	2.9 812 D	09/96	12/10	<b>B-067</b>		5	11.5V	12V
	2.9 O 812	09/96	12/10	<b>B-067</b>		5	11.5V	12V

## V-CLASS

OM 601.970	638/2, V 230 TD	09/96	07/03	<b>B-078</b>		4	11.5V	12V
OM 611.980	638/2, V 200 CDI	03/99	07/03	<b>B-099</b>		4	11.5V	12V
	638/2, V 220 CDI	03/99	07/03	<b>B-099</b>		4	11.5V	12V

## VIANO

OM 642.992	W639, 3.0 CDI	03/06	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 646.980, OM 646.982	W639, 2.2 CDI	09/03		<b>B-099</b>		4	11.5V	12V
OM 646.982	W639, 2.0 CDI	09/03		<b>B-099</b>		4	11.5V	12V
	W639, 2.0 CDI 4-matic	07/05		<b>B-099</b>		4	11.5V	12V
	W639, 2.2 CDI 4-matic	07/05		<b>B-099</b>		4	11.5V	12V

## VITO

OM 601.942	638, 2.3 108 D	02/96	07/03	<b>B-078</b>		4	11.5V	12V
OM 601.970	638, 2.3 110 D	03/97	07/03	<b>B-078</b>		4	11.5V	12V
	638, 2.3 110 TD	02/96	07/03	<b>B-078</b>		4	11.5V	12V
OM 611.980	638, 2.2 112 CDI	03/99	07/03	<b>B-099</b>		4	11.5V	12V
OM 611A (60 KW CDI)	638, 2.1 108 CDI	03/99	07/03	<b>B-099</b>		4	11.5V	12V
	638, 2.2 108 CDI	03/99	07/03	<b>B-099</b>		4	11.5V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**MERCEDES-BENZ****VITO**

OM 611LA (75 KW CDI)	638, 2.1 110 CDI	03/99	07/03	<b>B-099</b>		4	11.5V	12V
	638, 2.2 110 CDI	03/99	07/03	<b>B-099</b>		4	11.5V	12V
OM 622.951	W447, 1.6 109 CDI / BlueTEC	10/14		<b>PN-901</b>		4	4.5V	12V
	W447, 1.6 111 CDI / BlueTEC	10/14		<b>PN-901</b>		4	4.5V	12V

**VITO / MIXTO**

OM 642.992	W639, 3.0 120 CDI	07/06	08/13	<b>B-129</b>	A0011595001, A0011597101	6	4.4V	12V
OM 646.980, OM 646.981, OM 646.983	W639, 2.1 109 CDI	09/03		<b>B-099</b>		4	11.5V	12V
OM 646.980, OM 646.982	W639, 2.1 111 CDI	09/03		<b>B-099</b>		4	11.5V	12V
	W639, 2.1 115 CDI	09/03		<b>B-099</b>		4	11.5V	12V
OM 646.981	W639, 2.1 109 CDI 4x4	09/07		<b>B-099</b>		4	11.5V	12V
OM 646.982	W639, 2.1 111 CDI 4x4	09/07		<b>B-099</b>		4	11.5V	12V
	W639, 2.1 115 CDI 4x4	07/06		<b>B-099</b>		4	11.5V	12V

**MG****MG ZR**

20 T2N	2.0 TD	06/01	04/05	<b>B-096</b>		4	11V	12V
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**MG ZS**

20 T2N	2.0 TD	01/04	10/05	<b>B-096</b>		4	11V	12V
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**MG ZT**

204D2	2.0 CDTi	06/02	07/05	<b>B-104</b>		4	11V	12V
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**MINI****MINI**

1ND, 1ND-TV, W17 D14 (1ND)	R50, R53, 1.4 One D	06/03	09/06	<b>PT-159</b>		4	11V	12V
9HZ (DV6TED4)	R56, 1.6 One D	06/09	07/10	<b>B-123</b>		4	11V	12V
9HZ (DV6TED4), W16 D16	R56, 1.6 Cooper D	11/06	09/10	<b>B-123</b>		4	11V	12V

**MINI Clubman**

9HZ (DV6TED4)	R55, 1.6 Cooper D	10/07	02/10	<b>B-123</b>		4	11V	12V
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**MITSUBISHI****ASX**

4N14	2.2	07/13		<b>CP-08</b>	1820A019	4	11V	
4N13	1.8 DI-D	06/10		<b>CP-08</b>	1607849980, 1820A019, GN123	4	11V	12V
	1.8 DI-D 4WD	06/10		<b>CP-08</b>	1607849980, 1820A019, GN123	4	11V	12V
9HD	1.6 DI-D	07/15		<b>PZ-711</b>		4	5V	12V
	1.6 DI-D 4WD	07/15		<b>PZ-711</b>		4	5V	12V

**BUS**

10DC6	MS504	1974	1979	<b>PM-61</b>	31166-03101 31166-03104 ME067459	10	22.5V	24V
12DC2	B906	1968	1974	<b>PM-61</b>	31166-03101 31166-03104 ME067459	12	22.5V	24V
6D10	MK103	1974	1975	<b>PM-66</b>	ME037002	6	21V	24V
6D11	MM504	1975	1978	<b>PM-66</b>	ME037002	6	21V	24V
6DB1	B820, M(A)R410, M(A)470, MR520	1968	1978	<b>PM-60</b>	30866-04104 ME021302	6	22.5V	24V
6DC2	B800, B805	1968	1976	<b>PM-61</b>	31166-03101 31166-03104 ME067459	6	22.5V	24V
6DS1	MR620	1968	1971	<b>PM-60</b>	30866-04104 ME021302	6	22.5V	24V
6DS3	B622	1973	1974	<b>PM-60</b>	30866-04104 ME021302	6	22.5V	24V
8DC2	B806, B905	1968	1976	<b>PM-61</b>	31166-03101 31166-03104 ME067459	8	22.5V	24V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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# MITSUBISHI

CANTER									
4D30	K-FE111, K-FE121, K-FE211, K-FE221, K-FE231, N-FE101, N-FE111, N-FE121, N-FE211	1978	04/83	<b>PM-73</b>	ME017010 ME017013	4	20.5V	24V	
	N-FE101, N-FE111, N-FE121, N-FE211	05/83	09/85	<b>PM-160</b>	ME017009	4	24V	24V	
	N-FE301, N-FE401, U-FE301, U-FE311, U-FE321, U-FE331	10/85	10/93	<b>PM-78</b>	ME017057	4	23V	24V	
4D32	U-FE305, U-FE315, U-FE325, U-FE335, U-FE425, U-FE435	01/90		<b>PM-163</b>	ME007649	4	23V	24V	
4D33	U-FE317, U-FE337, U-FE437, U-FE447, U-FE637	01/90	10/93	<b>PM-163</b>	ME007649	4	23V	24V	
4D34 T	U-FE439, U-FE449	10/89	10/93	<b>PM-163</b>	ME007649	4	23V	24V	
4D36	KC-FE507, KC-FE516, KC-FE517	01/95		<b>PM-163</b>	ME007649	4	23V	24V	
4DQ	T720, T722		1967	<b>PM-62</b>	30666-20309	4	10.5V	12V	
4DR1	T90, T92, T94	1968	1970	<b>PM-63</b>	31366-14300 31366-14301 31366-14302 ME007546	4	10.5V	12V	
4DR5	K-FB100, K-FB120	09/82	09/85	<b>PM-74</b>	ME007547	4	20.5V	24V	
	K-FB100, K-FB120	12/73	04/83	<b>PM-65</b>	31366-14701 31366-02100 31666-02109 ME007545	4	22.5V	24V	
	K-FB300, K-FE300	10/85	10/98	<b>PM-77</b>	ME007615	4	11V	12V	
	T96, T98, T200, T210, T220, K-FE100, K-FE120, K-FB100, K-FB120	1971	08/82	<b>PM-63</b>	31366-14300 31366-14301 31366-14302 ME007546	4	10.5V	12V	
4DR51	K-FB100, K-FB120	01/81	04/83	<b>PM-65</b>	31666-02109 ME007545	4	22.5V	24V	
	K-FB100, K-FB120	05/83		<b>PM-74</b>	ME007547	4	20.5V	24V	
4DR7 GUTS	U-FB308B, U-FB328BV, U-FD378B	01/90		<b>PM-162</b>	ME001581	4	11V	12V	
4M40	FB501A, FB501B, FB511A, FB511B	11/93	09/94	<b>CP-05</b> <b>JPX-05</b>	ME201638 ME200970	4	11V	12V	
	U-FB501, U-FB511, U-FD501, KC-FB501, KC-FB511, KC-FD501	09/94		<b>PM-165</b>	ME201632 ME203583 ME203754	4	11V	12V	
4M42	PDG-FB70, PDG-FE70, PDG-EF72, PDG-FE82			<b>PM-401</b>	ME191813	4	23V	24V	
4M50	4.9	2005		<b>PM-407</b>	ME240253	4	23V		
4M51	5.2	2009		<b>PM-407</b>	ME240253	4	23V		
4P10		11/10		<b>PM-403</b>	MK667112	4	11V	12V	
CARISMA									
F8QT	1.9 TD	10/96	09/00	<b>B-080</b>		4	11V	12V	
F9Q1, F9Q2	1.9 DI-D	09/00	06/06	<b>B-077</b>		4	11V	12V	
CHALLENGER									
4M40 T	KD-K97WG	09/96		<b>PM-165</b>	ME201632 ME203583 ME203754	4	11V	12V	
CHARIOT									
4D65	N-D09W, Q-D09W	10/84	04/91	<b>CP-06</b>	MD092392	4	11V	12V	
4D68 T	Y-N38W, Y-N48W	07/92		<b>CP-06</b>	MD092392	4	11V	12V	
		01/94		<b>CP-07</b>	MD197511	4	11V	12V	
COLT DID									
OM639	Z38A	04/05	09/08	<b>PM-169</b>	MN960270	4	11.5V	12V	
	Z39A	04/05	09/08	<b>PM-169</b>	MN960270	3	11.5V	12V	
DELICA									
4D55	N-L0380, N-L0380PV, N-L0380GV, N-L0380GW, N-L068P, PV, PW	11/82	05/87	<b>PM-75</b>	MD050212	4	12V	12V	
4D56	L-039P	06/93	03/94	<b>PM-164</b>	MD301950	4	11V	12V	
	N-P05V, N-P15V, N-P25V, N-L09P, LD69P	06/86	05/93	<b>PM-75</b>	MD050212	4	12V	12V	
	P05V, P15V, P25V, P45V	06/93		<b>CP-07</b>	MD197511	4	11V	12V	
4D56 T	KB-P05V, KB-P05T, KB-P15V, KB-P25V, KC-P15V, KC-P15T, KC-P25T, KC-P45, KD-P05W, KD-P25W, KD-P35W, KD-PA5W, KD-PB5W, KD-PC5W, KD-PA5V, KC-PB5V, KC-PD5V	09/97		<b>PM-167</b>	MD344469	4	11V	12V	
	N-P05W, N-P15W, N-P25W, P35W	06/86		<b>CP-06</b>	MD092392	4	11V	12V	
	P05W, P15W, P25W, P35W, PA5W, PB5W, PC5W, PA5V, PB5V, PD5V, P05T, P15T, P25T, L039G	06/93	09/97	<b>CP-07</b>	MD197511	4	11V	12V	
4M40 T	KD-PE8W, KD-PD8W, KD-PF8W	04/96		<b>PM-165</b>	ME201632 ME203583 ME203754	4	11V	12V	
	KD-PE8W, KD-PD8W, KD-PF8W	05/94	04/96	<b>CP-05</b> <b>JPX-05</b>	ME201638 ME200970	4	11V	12V	





ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**MITSUBISHI****FIGHTER**

6D16, 6D17				<b>PM-404</b>	ME077476	6	23V	24V
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**FREECA / ADVENTURE / KUDA**

	2.5 L SOHC I4			<b>PM-400</b>	MD364515		11V	
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**GALANT**

4M40 T	2.8 TD	10/96	07/01	<b>CP-05 JPX-05</b>		4	11V	12V
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**GALLOPER**

D4BF	2.5 TD	09/98	12/03	<b>CP-07</b>		4	11V	12V
D4BH	2.5 TD intercooler	09/98	12/03	<b>CP-07</b>		4	11V	12V

**GRANDIS**

BSY, BWC	2.0 DI-D	05/07	03/10	<b>PM-406</b>	MN980406	4	7V	12V
	2.0 DI-D	09/05	05/07	<b>PM-405</b>	MN980234	4	4.4V	12V

**JEEP**

4DR5	J24, J36, J44, J54, K-J24, K-J36, K-J44, K-J54		11/82	<b>PM-65</b>	31666-02109 31366-14700 MM401625	4	22.5V	24V
4DR51	J24, J36, J44, J54	12/82		<b>PM-74</b>	ME007547	4	20.5V	24V

**JUPITER**

6DR5	T44	1971		<b>PM-65</b>	31666-02109 31366-14700 MM401625	6	22.5V	24V
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**L200**

4N15	2.4 Diesel DOHC MIVEC 16 Valve	09/15		<b>CP-08</b>	1820-A019	4	11V	
4D55	2.3 D 4WD	01/83	10/86	<b>PM-161</b>		4	6V	12V
4D56 (8V)	2.5 D	06/96	12/07	<b>PM-167</b>		4	11V	12V
	2.5 D	11/86	10/96	<b>PM-167</b>		4	11V	12V
	2.5 D 4WD	12/87	05/93	<b>PM-167</b>		4	11V	12V
4D56 T	2.5 TD	08/01	11/05	<b>PM-167</b>		4	11V	12V
	2.5 TD 4WD	11/92	08/96	<b>PM-167</b>		4	11V	12V
4D56 TD	2.5 TD 4WD	06/96	12/07	<b>PM-167</b>		4	11V	12V
4M40 T	2.8 TD 4WD	04/03	06/06	<b>CP-05 JPX-05</b>		4	11V	12V

**L300**

4D55	2.3 D	04/83	10/86	<b>PM-161</b>		4	6V	12V
4D56 (8V)	2.5 D	11/86	02/06	<b>PM-167</b>		4	11V	12V
	2.5 D	11/86	04/94	<b>PM-167</b>		4	11V	12V
4D56 T	2.5 TD	02/87	05/03	<b>PM-167</b>		4	11V	12V
	2.5 TD 4WD	11/88	05/04	<b>PM-167</b>		4	11V	12V

**L400 / SPACE GEAR**

4D56 T	2500 TD	05/95	06/05	<b>PM-167</b>		4	11V	12V
	2500 TD 4WD	09/96	06/05	<b>PM-167</b>		4	11V	12V
4D56 TD	2.5 TD	05/95	05/00	<b>PM-167</b>		4	11V	12V

**LIBERO / GALANT Σ 2300 / GALANT Λ 2300 / ETERNA Σ 2300 / ETERNA Λ 2300**

4D55 T	2.3 Turbo-D	09/80	05/84	<b>PM-161</b>		4	6V	12V
4D55 4D55 T	K-A167	05/80	10/82	<b>PM-75</b>	MD050212	4	12V	12V
	K-A167	11/82		<b>PM-75</b>	MD050212	4	12V	12V
4D68	CB8V, CB8W, CD8V, CD8W	05/92	12/93	<b>CP-06</b>	MD092392	4	11V	12V
4D68 T	CB8V, CB8W, CD8V, CD8W	01/94		<b>CP-07</b>	MD197511	4	11V	12V
	E57A, E77A	05/92	09/93	<b>CP-06</b>	MD092392	4	11V	12V
	E57A, E77A	10/93		<b>CP-07</b>	MD197511	4	11V	12V
	KA-CB8V, KA-CD8V, KD-CB8W, KD-CD8W	09/97		<b>PM-167</b>	MD344469	4	11V	12V

**MIRAGE LANCER**

4D65 T	N-C14V, Q-C14V, X-C14W, Q-C14W	02/85	04/92	<b>CP-06</b>	MD092392	4	11V	12V
	X-CB7A, X-CD7A	10/91	09/92	<b>CP-06</b>	MD092392	4	11V	12V
4D68	CB8A, CD8A	10/92	01/94	<b>CP-06</b>	MD092392	4	11V	12V
4D68 T	CB8A, CD8A	01/94		<b>CP-07</b>	MD197511	4	11V	12V
	CK8A, CM8A	10/95	09/97	<b>CP-07</b>	MD197511	4	11V	12V
	KD-CK8A, KD-CM8A, X-CK8A, X-CM8A	09/97		<b>PM-167</b>	MD344469	4	11V	12V
	1.8 DI-D	05/10		<b>CP-08</b>	1607849980, 1820-A019, GN123	4	11V	12V
BKD, BWC	2.0 DI-D	01/08		<b>PM-405</b>		4	4.4V	12V

**MONTERO SPORT**

4N15	2.4 TDI GLS 4x4	08/15		<b>CP-08</b>	1820-A019	4	11V	
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**MOTOR FORKLIFT**

4DQ50		1970		<b>PM-70</b>	30666-51300 30666-51301	4	22.5V	24V
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 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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## MITSUBISHI

### OUTLANDER

4HK, 4HN	2.2 DI-D 4WD	08/07	11/12	<b>B-124</b>		4	11V	12V
4N14	2.2	07/12		<b>CP-08</b>	1820-A019		11V	
	2.2 DI-D	11/06	11/12	<b>B-124</b>	MN982294	4	11V	12V
	2.2 DI-D	11/06	11/12	<b>CP-08</b>	1607849980, 1820-A019, GN123	4	11V	12V
	2.2 DI-D 4WD	11/06	11/12	<b>B-124</b>	MN982294	4	11V	12V
BSY	2.2DI-D	07/10		<b>PM-405</b>	MN980234	4	4.4V	12V
		09/07		<b>B-124</b>	MN982294		11V	
		11/06	06/10	<b>PM-406</b>	MN980406 MN980409	4	7V	12V

### PAJERO

4D55 4D55 T	N-L043G	05/82	11/82	<b>PM-161</b>	MD014997	4	6V	12V
	N-L043G	05/82	11/82	<b>PM-75</b>	MD050212	4	12V	12V
	N-L043G, N-L043GW, N-L043GV, N-L048GV, N-L048GW	11/82		<b>PM-75</b>	MD050212	4	12V	12V
4D56 4D56 T	N-L044G, N-L044GW, N-L049GV, Q-L144GW, Q-L149GW	11/82		<b>PM-75</b>	MD050212	4	12V	12V
	V14V, V24C, V24V, V24W, V24WG, V34C, V34V, V34W, V34WG, V44W, V44WG	01/91	06/93	<b>CP-06</b>	MD092392	4	11V	12V
	V24C, V24W, V24WG	07/93		<b>CP-07</b>	MD197511	4	11V	12V
4M40 T	V26W, V26WG, KC-V46V, KC-V46W, KD-V46WG	07/93	01/96	<b>CP-05</b> <b>JPX-05</b>	ME201638 ME200970	4	11V	12V
4M41 DI	KH-V78W-LRHF, KH-V78W-LYXF, KH-V78W- LRUF, KH-V68W-MRHF, KH-V68W-MRUF, KH-V68W-MYXF	09/99		<b>PM-168</b>	ME203539	4	11V	12V

### PAJERO Classic

4D56 T	2.5 TD	07/01		<b>PM-167</b>		4	11V	12V
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### PAJERO SPORT

4D56 T	2.5 TD	11/98		<b>PM-167</b>		4	11V	12V
	2.5 TD 4WD	11/97	10/98	<b>PM-167</b>		4	11V	12V
4M40 T	2.8 TDi	11/98	10/03	<b>CP-05</b> <b>JPX-05</b>		4	11V	12V
4N15	2.4 TDI GLS 4x4	08/15		<b>CP-08</b>	1820-A019	4	11V	

### ROSA

4D30	K-BE211	1979	01/83	<b>PM-73</b>	ME017010	4	20.5V	24V
	N-BE211	02/83		<b>PM-160</b>	ME017009	4	24V	24V
4DR5	B10, B14, B16	1970	1979	<b>PM-63</b>	31366-14300 ME007546 K967024	4	10.5V	12V
4M50	4.9	2005		<b>PM-407</b>	ME240253	4	23V	
4M51	5.2	2009		<b>PM-407</b>	ME240253	4	23V	
6DR5	B360, B622, BH212	1973	01/83	<b>PM-65</b>	31666-02109 31366-14700 MM401625	6	22.5V	24V

### RVR

4D68 T	N28W, N28WG	08/93		<b>CP-07</b>	MD197511	4	11V	12V
	N28W, N28WG	09/92	07/93	<b>CP-06</b>	MD092392	4	11V	12V

### SPACE RUNNER

4D68 T	2.0 TD	10/92	08/99	<b>PM-167</b>		4	11V	12V
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### SPACE STAR

F9Q1, F9Q2	1.9 DI-D	02/01	12/04	<b>B-077</b>		4	11V	12V
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### SPACE WAGON

4D68 T	2.0 TD	10/92	10/98	<b>PM-167</b>		4	11V	12V
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### STRADA

4D56 T	K34T	05/91	09/93	<b>CP-06</b>	MD092392	4	11V	12V
	K34T, K74T	10/93		<b>CP-07</b>	MD197511	4	11V	12V
	KC-K74T	09/97		<b>PM-167</b>	MD344469	4	11V	12V

### TRAILER TANK TRUCK

10DC6	T813, T912, FP204, FP214	1972	1979	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	10	22.5V	24V
8DC6	T813, T912, FP204, FP214	1970	1980	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	8	22.5V	24V
8DC6D	T902	1974	1975	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	8	22.5V	24V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**MITSUBISHI****TRITON**

4N15	2.4 Diesel DOHC MIVEC 16 Valve	09/15		<b>CP-08</b>	1820-A019	4	11V	
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**TRITON 2.5 / TRITON 3.2**

4D56 T 4M41	GLX, GLX-R, VR			<b>PM-402</b>	1820A-006T		11V	12V
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**TRUCK / DUMP TRUCK / CEMENT MIXER TRACTOR / TRAILER TANK TRUCK**

6D10	T654, FK103	1974	1979	<b>PM-66</b>	ME037002	6	21V	24V
6D11	FM104	1974	1979	<b>PM-66</b>	ME037002	6	21V	24V
6DB1	T330, T480, K100, K150, K151, K200, 4K100, 4K120	1968	1977	<b>PM-60</b>	30866-04104 ME021302	6	22.5V	24V
6DB10A	T330, T335, T385, T388, T410, T482, K100	1968	1972	<b>PM-60</b>	30866-04104 ME021302	6	22.5V	24V
6DC2	T800, T810, T900, FP101, F200, W81, W120, K201, K251, K300, W410	1968	1976	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	6	22.5V	24V
6DC20	K201, K302	1974	1976	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	6	22.5V	24V
6DC20A	T800, T810, T910	1968	1976	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	6	22.5V	24V
6DC20AF	T810	1970	1971	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	6	22.5V	24V
6DR5	T44	1972	1976	<b>PM-65</b>	31666-02109 MM401625	6	22.5V	24V
6DS1	T620, T622, T623, T625, T626, T650	1968	1972	<b>PM-60</b>	30866-04104 ME021302	6	22.5V	24V
6DS10A	T620, T622, T623, T625, T626	1969	1970	<b>PM-60</b>	30866-04104 ME021302	6	22.5V	24V
6DS3	T652, T653	1972	1976	<b>PM-60</b>	30866-04104 ME021302	6	22.5V	24V
8DC2	T801, T811, T901, T911, T931, T951, FV112, W122, W150, W250, FV400, K301, K350, K351, K501, K701, K900, K1300	1968	1976	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	8	22.5V	24V
8DC20	FT102, K201, K303, K351, K501	1973	1976	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	8	22.5V	24V
8DC20A	T811, T951	1968	1969	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	8	22.5V	24V
8DC20WT	D200	1971	1981	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	8	22.5V	24V
8DC2D	T911, T921, T931, T951, FU112	1969	1975	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	8	22.5V	24V
8DC2T	K900, K1300	1969	1971	<b>PM-61</b>	31166-03101 31166-03104 ME967559 ME067459	8	22.5V	24V

**MITSUBISHI HEAVY IND (MHI)****FORKLIFT**

4DR1	2FD30			<b>PM-65</b>	MM 401625 31666-02109 31666-14700	4	22.5V	24V
4DR5	FD30			<b>PM-63</b>	K9670240 31366-14300 31366-14301	4	10.5V	12V
6D11	FD150T			<b>PM-66</b>	ME 037002	6	21V	24V
S4S	FD28, FD35A			<b>PM-79</b>	32A66-03100	4	10.5V	12V

**UNIVERSAL**

K2AS, K2C, KE70, KE75				<b>PM-79</b>	MM 409510 3066-57300	2	10.5V	12V
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ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## MITSUBISHI HEAVY IND (MHI)

### UNIVERSAL

K3				<b>PM-79</b>	MM 409510 3066-57300	3	10.5V	12V
K4, KE150				<b>PM-79</b>	MM 409510 3066-57300	4	10.5V	12V
KE250				<b>PM-63</b>	K9670240 31366-14300 31366-14301	4	10.5V	12V
KE250, 270				<b>PM-65</b>	MM 105560 31666-12109 31666-14700	4	22.5V	24V

## NISSAN

### 3.5t TRUCK

SD33		1968	1973	<b>PN-81</b>	11065-37506 11065-37507	6	10.5V	12V
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### AD VAN

CD17	Q-WSY10	10/90	07/93	<b>CP-01</b>	11065-G5501	4	11V	12V
	S-VSB11, S-VSY10, S-VSNY10	05/88	09/90	<b>PN-135</b>	11065-43G01	4	11V	12V
CD20	X-WEY10, KD-WEY10, KD-VENY10	08/93		<b>CP-02</b>	11065-57J00	4	11V	12V

### ALMERA

CD20	2.0 D	11/95	07/00	<b>CP-02</b>		4	11V	12V
K9K 722	1.5 dCi	01/03	09/06	<b>B-077</b>		4	11V	12V

### ATLAS

ED33	K-MH40, K-MGH40, K-DMH40, K-RMGH40, K-TMH40, K-CMH40, N-MH40, N-CMH40, N-MGH40, N-DMH40, N-TMH40, K-RMH40	12/81	11/86	<b>PN-125</b>	11065-T9000 11065-T9001	4	23V	24V
	N-MH40, MGH40, DMH40	11/86	06/90	<b>PN-137</b>	11065-02T00	4	23V	24V
ED35	U-TRH40, LE2YH41, LE4YH41, U-RH40, SE2H41, TE2H41	06/90	05/95	<b>PN-137</b>	11065-02T00	4	23V	24V
QD32	KG-SR4F, KG-SR8F	11/97		<b>CP-03</b>	11065-0W801	4	11V	12V
SD23	K-YF22, K-YGF22	02/82	08/85	<b>PN-123</b>	11065-34W00	4	8.5V	12V
	K-YF22, K-YGF22	02/82	08/85	<b>PN-124</b>	11065-T8201 11065-T8203	4	23V	24V
	N-YF22, N-YGF22	08/85	11/86	<b>PN-131</b>	11065-C8600	4	23V	24V
	N-YF22, N-YGF22	08/85	11/86	<b>PN-132</b>	11065-10G00	4	11V	12V
SD25	K-EF22, K-EGF22, K-REGF22, N-EH40	12/81		<b>PN-123</b>	11065-34W00	4	8.5V	12V
	K-EF22, K-EGF22, K-REGF22, N-EH40	12/81		<b>PN-124</b>	11065-T8201 11065-T8203	4	23V	24V
	K-EH40	12/81		<b>PN-124</b>	11065-T8201 11065-T8203	4	23V	24V
	K-EH40	12/81		<b>PN-128</b>	11065-T8200 11065-T8202	4	6.5V	12V
	N-EF22, N-EGF22, N-VEGF22	08/85		<b>PN-131</b>	11065-C8600	4	23V	24V
	N-EF22, N-EGF22, N-VEGF22	08/85		<b>PN-132</b>	11065-10G00	4	11V	12V
TD23	N-TF22, N-TGF22	11/86		<b>PN-135</b>	11065-43G01	4	11V	12V
	N-TF22, N-TGF22	11/86		<b>PN-136</b>	11065-10T01	4	23V	24V
TD25	KC-SN6F23	10/95		<b>PN-135</b>	11065-43G01 11065-63G00	4	11V	12V
TD27	N-AF22, N-AGF22, N-VAGF22, N-AH40	11/86		<b>PN-136</b>	11065-10T01	4	23V	24V

### AVENIR










CD20	S-VSW10	05/90		<b>CP-02</b>	11065-57J00 11065-5C900	4	11V	12V
CD20-T	S-SW10, Y-SW10, KD-SW10	05/90		<b>CP-02</b>	11065-57J00 11065-5C900	4	11V	12V










### BASSARA










YD25DDTi	KH-JVU30, KH-JVNU30	11/99		<b>CP-72 JPX-72</b>	11065-AD200	4	11V	12V
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### BLUEBIRD










CD20	X-SU13, TSU13, Q-SU13, SNU13, Y-SU13, SNU13, KD-SU13, SNU13, SU14	09/91	09/98	<b>CP-02</b>	11065-57J00	4	11V	12V
	X-SU13, X-TSU13, Q-SU13, Q-SNU13, Y-SU13, Y-SNU13, KD-SU13, KD-SNU13, KD-SU14	09/91	09/98	<b>CP-02</b>	11065-57J00	4	11V	12V
CD20E	KE-SU14	09/98	11/98	<b>CP-02</b>	11065-5C900	4	11V	12V
LD20	K-EJ910, K-VEJ910	05/80	12/81	<b>PN-89</b>	11065-V0700 11065-V0710	4	11V	12V
LD20II	N-EU11, N-VEU11, Q-SU12, EJ910 (TAXI), Q-TSU12, VEU11	08/85	08/91	<b>CP-01</b>	11065-G5501	4	11V	12V
	N-EU11, N-VEU11, Q-SU12, Q-EJ910 (TAXI), Q-TSU12, Q-VEU11	08/85	08/91	<b>CP-01</b>	11065-G5501	4	11V	12V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.	
<b>NISSAN</b>									
<b>BLUEBIRD</b>									
LD20-T	K-EJ910, K-VEJ910, N-EJ910, N-VEJ910, N-EU11, N-VEU11	01/82	08/85	<b>PN-121</b>	11065-W2500 11065-W2510	4	6.5V	12V	
	K-EJ910, K-VEJ910, N-EJ910, N-VEJ910, N-EU11, N-VEU11	01/82	08/85	<b>PN-129</b>	11065-W3400 11065-W3410	4	8.5V	12V	
<b>CABALL CLIPPER</b>									
ED30	K-YC341, K-DYC341 K-RYC341, K-TYC341	06/80	12/81	<b>PN-130</b>	11065-J6500	4	23V	24V	
	YC240, YT40, YWT40, YHWT40, GHWT40, GYHT40, AVYT40	01/73	10/76	<b>PN-84</b>	11065-J2000	4	10V	12V	
	YC340, HYC340, CYC340, DYC340, EHYC340, JVC340	10/76	11/77	<b>PN-82</b>	11065-Z5000	4	19V	24V	
	YC340, HYC340, DYC340, K-YC340, GYC340 JVC340	11/77	05/80	<b>PN-122</b>	11065-J5501 11065-J5502	4	9.5V	12V	
ED33	K-MC341, K-HMC341, K-DMC341	06/80	12/81	<b>PN-130</b>	11065-J6500	4	23V	24V	
SD22	QC240, HQC240, D652, T652, T653, T658, T661, T663, T665	10/67	12/72	<b>PN-81</b>	11065-37506 11065-37507	4	10.5V	12V	
<b>CABSTAR</b>									
TD25	F22, 2.5 TD	01/89	12/92	<b>CP-03</b>		4	11V	12V	
	F23, 2.5 D	07/92	12/00	<b>CP-03</b>		4	11V	12V	
YD25DDTi, YD25K3LD-5MI	F24, 2.5	11/11	12/13	<b>PN-901</b>		4	4.5V	12V	
<b>CABSTAR HOMER</b>									
SD22	K-QF21, K-VQF21, K-QGF21, K-VQGF21	09/79	01/82	<b>PN-120</b>	11065-T3470	4	23V	24V	
	K-QF21, K-VQF21, K-QGF21, K-VQGF21	09/79	01/82	<b>PN-87</b>	11065-31W00 11065-31W01	4	11V	12V	
	QGF20, QGF21, VGF20, VGF21	11/77	09/79	<b>PN-86</b>	11065-Y1402 11065-Y1403 11065-Y1404	4	9.5V	12V	
	QGF20, QGF21, VGF20, VGF21	11/77	09/79	<b>PN-88</b>	11065-T3400 11065-T3401	4	19V	24V	
	QGF20, VQF20	01/76	08/77	<b>PN-81</b>	11065-37506 11065-37507	4	10.5V	12V	
	QGF20, VQF20	08/77	11/77	<b>PN-85</b>	11065-Y1400 11065-Y1401	4	9V	12V	
<b>CARAVAN HOMY</b>									
LD20II LD20T-II	N-KSE24, Q-KSE24, Q-KRME24, Q-KRMGE24, Q-KSGE24 NO. 1. 2. CYLINDER ONLY	09/88	10/90	<b>CP-70</b>	11065-V7203	4	6.5V	12V	
LD20T	N-KSE23, N-KSGE23	05/82	09/86	<b>PN-121</b>	11065-W2500 11065-W2510	4	6.5V	12V	
	N-KSE23, N-KSGE23	05/82	09/86	<b>PN-129</b>	11065-W3400 11065-W3410	4	8.5V	12V	
QD32	KC-VWE24, KC-VWGE24, KC-CWGE24, KC-VWMGE24, KC-CWMGE24, KG-VWE24, KC-VWGE24, KC-CWGE24, KD-DWGE24	09/96		<b>CP-03</b>	11065-0W801 11065-65N01	4	11V	12V	
SD22	K-CRGE23, K-VRGE23, K-VRE23, K-KRE23, K-KRGE23, K-DRGE23	10/79	05/82	<b>PN-120</b>	11065-T3470	4	23V	24V	
	K-CRGE23, K-VRGE23, K-VRE23, K-KRE23, K-KRGE23, K-DRGE23	10/79	05/82	<b>PN-87</b>	11065-31W00 11065-31W01	4	11V	12V	
	RF20, HRE20, VRE20, KRSE20, GKRE20, GKRE21, K-RE21, KRSE21, GKRE21	03/78	09/79	<b>PN-86</b>	11065-Y1402 11065-Y1403 11065-Y1404	4	9.5V	12V	
	RF20, HRE20, VRE20, KRSE20, GKRE20, GKRE21, K-RE21, KRSE21, GKRE21	03/78	09/79	<b>PN-88</b>	11065-T3400	4	19V	24V	
SD23	N-VYE23, N-VYGE23 N-CYGE23, N-DYGE23	05/82	09/86	<b>PN-123</b>	11065-34W00	4	8.5V	12V	
	N-VYE23, N-VYGE23 N-CYGE23, N-DYGE23	05/82	09/86	<b>PN-124</b>	11065-T8201 11065-T8203	4	23V	24V	
TD23	CYGE24, N-VYE24, N-VYGE24	09/86	08/90	<b>PN-135</b>	11065-63G00 11065-43G01	4	11V	12V	
TD27	KC-CRGE24, KC-CRMGE24, KC-DRGE24, KC-VRE24, KC-VRMGE24, KD-ARGE24, KD-KRE24, KD-KRGE24, KD-KRME24, KD-KRMGE24	08/95		<b>PN-135</b>	11065-63G00 11065-43G01	4	11V	12V	
	N-CRGE24, N-DRGE24, U-CRGE24, U-DRGE24, N-VRMGE24, N-VRGE24, U-VRMGE24, U-VRGE24, Q-ARGE24, Q-KRME24, Q-KRE24, Q-KRGE24, Q-ARGE24, Q-KRMGE24, Y-ARGE24, KRE24, KRGE24, Y-KRME24, KRMGE24, T-CRGE24, VRMGE24	10/87	08/95	<b>PN-135</b>	11065-63G00 11065-43G01	4	11V	12V	
TD27T	Q-KRE24, Q-KRME24, KC-CRGE24, KC-DRGE24, KC-CRMGE24, KC-VRE24, KC-VRGE24, KC-VRMGE24	10/88	05/93	<b>PN-138</b>	11065-31N00 11065-G2400	4	11V	12V	
TD27Ti	KD-ARE24, KD-ARGE24 KD-ARME24, KD-ARMGE24, KD-KRE24, KD-KRGE24	08/95		<b>CP-03</b>	11065-0W801 11065-65N01	4	11V	12V	
	Q-ARE24, Q-ARME24, Q-ARMGE24, Q-KRE24, Y-ARE24, Y-ARME24, Y-ARMGE24	10/88	08/95	<b>PN-138</b>	11065-31N00 11065-G2400	4	11V	12V	

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
<b>NISSAN</b>								
<b>CARAVAN HOMY</b>								
ZD30DD	KG-VWE25			<b>CP-73</b>	11065-2W202 11065-2W211		11V	12V
ZD30DDTi	KG-VWE25, KG-VPE25			<b>CP-73</b>	11065-2W202 11065-2W211		11V	12V
<b>CEDRIC / GLORIA</b>								
LD28	K-H430, K-WH430, K-VH430	11/79	06/82	<b>PN-89</b>	11065-V0700 11065-V0710	6	11V	12V
	N-H430, N-W430, N-VH430, N-HY30, N-WHY30, N-VHY30	06/82	06/85	<b>PN-121</b>	11065-W2500 11065-W2510	6	6.5V	12V
	N-H430, N-W430, N-VH430, N-HY30, N-WHY30, N-VHY30	06/82	06/85	<b>PN-129</b>	11065-W3400 11065-W3410	6	8.5V	12V
RD28	KD-UY31, KD-UJY31, KD-CUY31, KD-UY33	06/95		<b>CP-04</b>	11065-4P400	6	11V	12V
	N-UY30, N-UY31, N-UY32 Q-UY31, Q-UY32 NO. 1. 2. 3. CYLINDER ONLY	08/85	05/95	<b>CP-70</b>	11065-V7203	6	6.5V	12V
RD28E	KH-UY31	08/99		<b>CP-04</b>	11065-4P400	6	11V	12V
SD20 SD22	K-S430, N-S430, K-R430, K-VR430	06/79	06/83	<b>PN-87</b>	11065-31W00 11065-31W01	4	11V	12V
	Q130, Q230, Q330	1968	10/76	<b>PN-81</b>	11065-37506 11065-37507	4	10.5V	12V
	Q330, R330	10/76	10/77	<b>PN-85</b>	11065-Y1400 11065-Y1401	4	9V	12V
	Q330, R330	10/77	06/79	<b>PN-86</b>	11065-Y1402 11065-Y1403 11065-Y1404	4	9.5V	12V
<b>CHERRY VANETTE</b>								
LD20	K-EC120, K-EGC120, K-KEC120, K-KEGC120, K-VEC120, K-VEGC120, K-VPGC120	06/81	09/82	<b>PN-89</b>	11065-V0700 11065-V0710	4	11V	12V
<b>CIVILIAN</b>								
ED30	GHYC340	11/72	11/76	<b>PN-82</b>	11065-Z5000	4	19V	24V
	GHYC340, K-GHY341	11/77	05/80	<b>PN-122</b>	11065-J5501 11065-J5502	4	9.5V	12V
	K-GHYC341	06/80		<b>PN-130</b>	11065-J6500	4	23V	24V
	QYC240	02/73	11/76	<b>PN-82</b>	11065-Z5000	4	19V	24V
	QYC240	02/73	11/76	<b>PN-84</b>	11065-J2000	4	10V	12V
ED33	K-GHMC341	06/80	08/82	<b>PN-130</b>	11065-J6500	4	23V	24V
	N-MW40, N-MGW40	05/88		<b>PN-137</b>	11065-02T00	4	23V	24V
	N-MW40, N-MGW40	08/82	05/88	<b>PN-125</b>	11065-T9000 11065-T9001	4	23V	24V
ED35	U-BGW40, U-BW40, U-KC-BGW40	06/90		<b>PN-137</b>	11065-02T00	4	23V	24V
SD22	GHQC240	09/71	01/73	<b>PN-81</b>	11065-37506 11065-37507	4	10.5V	12V
TD42	U-RW40, U-RGW40, U-RYW40	05/88		<b>PN-136</b>	11065-10T01	6	23V	24V
<b>CREW</b>								
RD28	N-UY30, N-UY31, N-UY32, Q-UY31, Q-UY32 NO. 1. 2. 3. CYLINDER ONLY	07/93		<b>CP-70</b>	11065-V7203	6	6.5V	12V
<b>CUBE</b>								
K9K 270, K9K	1.5 dCi	03/10		<b>PN-900</b>		4	4.4V	12V
<b>DATSUN TRUCK</b>								
QD32	KC-LRMD22	01/97		<b>CP-03</b>	11065-0W801 11065-65N01	4	11V	12V
SD22	K-S720, K-SG720, K-RSG720	10/79	01/82	<b>PN-87</b>	11065-31W00	4	11V	12V
	K-S720, K-SG720, K-SGY720 K-RSG720	01/82	04/83	<b>PN-123</b>	11065-34W00	4	8.5V	12V
	K-S720, K-SG720, K-SGY720 K-RSG720	01/82	04/83	<b>PN-128</b>	11065-T8200 11065-T8202	4	6.5V	12V
	R620	11/78	10/79	<b>PN-86</b>	11065-Y1402 11065-Y1403 11065-Y1404	4	9.5V	12V
SD23	N-A720, N-AG720, N-AGY720	04/83		<b>PN-128</b>	11065-T8200 11065-T8202	4	6.5V	12V
	N-AD21, N-AGD21, N-AMD21	08/85		<b>PN-132</b>	11065-10G00	4	11V	12V
TD23	N-PD21, N-PGD21, N-PMD21	08/87		<b>PN-135</b>	11065-43G01	4	11V	12V
TD27	KC-BD21, KC-BGD21	08/95	01/97	<b>PN-135</b>	11065-43G01	4	11V	12V
	KC-BD22	01/97		<b>PN-135</b>	11065-43G01	4	11V	12V
	S-BMD21	11/88		<b>PN-135</b>	11065-43G01	4	11V	12V
TD27T	U-BMD21, KC-UMD21, LBMD21	07/93	01/97	<b>PN-138</b>	11065-31N00	4	11V	12V
<b>EL GRAND</b>								
QD32 Eti	KD-AVE50, KD-AVWE50	05/97	08/99	<b>CP-03</b>	11065-0W801	4	11V	12V
ZD30DDTi	KH-ATE50, KH-ATWE50	08/99		<b>CP-73</b>	11065-2W202 11065-2W211	4	11V	12V

 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>NISSAN</b>																	
<b>FORKLIFT</b>																	
SD15	NSF01(M) 10, NSF01(M) 14, NSF01(M) 15, NSF01(M) 18, SF01A(M) 10, SF01A(M) 14, SF01A(M) 15, SF01A(M) 18	1981				<b>PN-86</b>	11065-Y1402 11065-Y1404	3	9.5V	12V							
	NVH01A(M) 10, NVH01A(M) 14, NVH01A(M) 15, NVH01A(M) 18, VH01A(M) 10, VH01A(M) 14, VH01A(M) 15, VH01A(M) 18	1981				<b>PN-128</b>	11065-T8202	3	6.5V	12V							
SD15T	NSF02A(M) 20T, NSF02A(M) 25T	1981				<b>PN-86</b>	11065-Y1402 11065-Y1404	3	9.5V	12V							
	NVH02(M) 20, NVH02(M) 23, NVH02(M) 25	1981				<b>PN-128</b>	11065-T8202	3	6.5V	12V							
SD22	FD104, FD105, QF1A(M) 10, QF1A(M) 14, QF1A(M) 15, QF1A(M) 18, QF02A(M) 20, QF02A(M) 25, QF02A(M) 30		1980			<b>PN-81</b>	11065-37506 11065-37507	4	10.5V	12V							
	FD104, FD105, QF1A(M) 10, QF1A(M) 14, QF1A(M) 15, QF1A(M) 18, QF02A(M) 20, QF02A(M) 25, QF02A(M) 30	1981				<b>PN-86</b>	11065-Y1402 11065-Y1404	4	9.5V	12V							
SD25	EF02A(M) 20, EF02A(M) 25, EF02A(M) 30					<b>PN-128</b>	11065-T8202	4	6.5V	12V							
	EF02A(M) 20, EF02A(M) 25, EF02A(M) 30					<b>PN-86</b>	11065-Y1402 11065-Y1404	4	9.5V	12V							
	EH01A(M) 10, EH01A(M) 14, EH01A(M) 15, EH01A(M) 18, EH02A(M,F) 20, EH02A(M,F) 23, EH02A(M,F) 25, EGH02A(M,F) 28, EGH02A(M,F) 32					<b>PN-124</b>	11065-T8203	4	23V	24V							
	EH01A(M) 10, EH01A(M) 14, EH01A(M) 15, EH01A(M) 18, EH02A(M,F) 20, EH02A(M,F) 23, EH02A(M,F) 25, EGH02A(M,F) 28, EGH02A(M,F) 32					<b>PN-128</b>	11065-T8202	4	6.5V	12V							
SD33	F03 SERIES 3.5 4.0T					<b>PN-131</b>	11065-C8600	6	23V	24V							
SD33T	F05 SERIES 5.0 6.0T					<b>PN-124</b>	11065-T8203	6	23V	24V							
	FD005, FD006, FD007, YGF03M40T					<b>PN-124</b>	11065-T8203	6	23V	24V							
	FD005, FD006, FD007, YGF03M40T					<b>PN-88</b>	11065-T3400 11065-T3401	6	19V	24V							
TD42	F05 SERIES 5.0 6.0T					<b>PN-136</b>	11065-10T01	6	23V	24V							
<b>INTERSTAR</b>																	
F9Q 772, F9Q 774	1.9 dCi 80	04/02	08/06			<b>B-077</b>		4	11V	12V							
G9T 722	2.2 dCi 90	07/02				<b>B-116</b>		4	11V	12V							
G9U 632	2.5 dCi 150	10/06				<b>B-116</b>		4	11V	12V							
G9U 650, G9U 720, G9U 724, G9U 750	2.5 dCi 120	04/02	12/11			<b>B-116</b>		4	11V	12V							
G9U 650, G9U 720, G9U 754	2.5 dCi 100	11/03	12/11			<b>B-116</b>		4	11V	12V							
ZD30	3.0 dCi 140	11/03	09/06			<b>B-077</b>		4	11V	12V							
<b>JUKE</b>																	
1.5DT Dci		09/10				<b>PN-900</b>	11065-00Q0E	4	4.4V	12V							
<b>JUNIOR</b>																	
SD22	Q41	1968				<b>PN-81</b>	11065-37506 11065-37507	4	10.5V	12V							
<b>KUBISTAR</b>																	
K9K 700, K9K 716	1.5 dCi 70	09/05	10/09			<b>B-077</b>		4	11V	12V							
K9K 704, K9K 710, K9K 714, K9K 722	1.5 dCi	08/03				<b>B-077</b>		4	11V	12V							
<b>LARGO</b>																	
CD20ETi	VW30, VNW30	08/95				<b>CP-02</b>	11065-57J00 11065-5C900	4	11V	12V							
CD20T	Y-VW30, VNW30	05/90				<b>CP-02</b>	11065-57J00 11065-5C900	4	11V	12V							
<b>LAUREL</b>																	
LD20	K-SJC31	11/80	11/81			<b>PN-89</b>	11065-V0700 11065-V0710	4	11V	12V							
	K-SJC31, N-SJC31	11/81	10/86			<b>PN-121</b>	11065-W2500 11065-W2510	4	6.5V	12V							
	K-SJC31, N-SJC31	11/81	10/86			<b>PN-129</b>	11065-W3400 11065-W3410	4	8.5V	12V							
LD28	K-EJC31	11/80	11/81			<b>PN-89</b>	11065-V0700 11065-V0710	6	11V	12V							
	K-EJC31, K-EJC32	11/81	10/86			<b>PN-121</b>	11065-W2500 11065-W2510	6	6.5V	12V							
	K-EJC31, K-EJC32	11/81	10/86			<b>PN-129</b>	11065-W3400 11065-W3410	6	8.5V	12V							



 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>NISSAN</b>																	
<b>LAUREL</b>																	
LD28	2.8 D	01/81	10/85	<b>B-080</b>		6	11V	12V									
	2.8 D	01/85	12/87	<b>B-080</b>		6	11V	12V									
RD28	KD-SC35	06/97	08/99	<b>CP-04</b>	11065-4P400	6	11V	12V									
	N-SJC32 Q-SJC32, Q-SJC33, Q-SJC34 NO. 1. 2. 3. CYLINDER ONLY	08/85	05/89	<b>CP-70</b>	11065-V7203	6	6.5V	12V									
	2.8 D	01/85	12/89	<b>CP-01</b>		6	11V	12V									
RD28E	KH-SC35	08/99		<b>CP-04</b>	11065-4P400	6	11V	12V									
SD20	K-SC230	11/79	11/80	<b>PN-87</b>	11065-Q4001	4	11V	12V									
	SC230	11/78	10/79	<b>PN-86</b>	11065-Y1402 11065-Y1403 11065-Y1404	4	9.5V	12V									
<b>MICRA</b>																	
K9K 276, K9K 704, K9K 708, K9K 722	K12, 1.5 dCi	01/03	06/10	<b>B-077</b>		4	11V	12V									
TD15	K11, 1.5 D	02/98	02/03	<b>B-087</b>		4	11V	12V									
<b>MISTRAL</b>																	
TD27 BT	Y-R20	06/94		<b>PN-138</b>	11065-G2400 11065-31N00	4	11V	12V									
<b>MURANO</b>																	
YD25DDTi	2.5 dCi 4x4	11/11	09/14	<b>PN-901</b>		4	4.5V	12V									
<b>NAVARA</b>																	
YD25DDTi	2.5 dCi 4WD D40	10/08		<b>PN-901</b>	11065-00Q0L 11065-00Q0K 11065-1819R	4	4.5V										
		05/05		<b>CP-72 JPX-72</b>	11065-AD200 11065-AD201	4	11V	12V									
<b>NOTE</b>																	
K9K 276, K9K 292, K9K 700	E11, 1.5 dCi	09/10	06/12	<b>PN-900</b>		4	4.4V	12V									
	E11, 1.5 dCi	10/10	06/12	<b>B-077</b>		4	11V	12V									
K9K 608, K9K 892	E12, 1.5 dCi	06/13		<b>PN-900</b>		4	4.4V	12V									
<b>NP300</b>																	
YD25DDTi	2.5 dCi 4WD	10/08		<b>PN-901</b>	11065-00Q0L 11065-00Q0K 11065-1819R	4	4.5V										
<b>NT400 Cabstar</b>																	
YD25K3LD-5HO, YD25K3LD-5MI	2.5 D	01/14		<b>PN-901</b>		4	4.5V	12V									
YD25K3LD-5LO	2.5	01/14		<b>PN-901</b>		4	4.5V	12V									
<b>NV200</b>																	
1.5DT Dci		09/09		<b>PN-900</b>	11065-00Q0E	4	4.4V	12V									
K9K 400, K9K 608, K9K 628	1.5 dci	10/10		<b>B-077</b>		4	11V	12V									
<b>PATHFINDER</b>																	
TD27ETi	2.7 TD 4WD	09/97	12/04	<b>PN-135</b>		4	11V	12V									
YD25DDTi	2.5 dCi	11/11		<b>PN-901</b>		4	4.5V	12V									
	2.5 dCi 4WD	11/11		<b>PN-901</b>		4	4.5V	12V									
<b>PATROL</b>																	
SD33	3.2 D	07/85	08/88	<b>PN-132</b>		6	11V	12V									
	3.2 D	11/79	08/88	<b>PN-131</b>		6	23V	24V									
	3.3 D 4x4	06/80	12/87	<b>PN-131</b>		6	23V	24V									
	3.3 D 4x4	07/85	12/87	<b>PN-132</b>		6	11V	12V									
SD33T	3.2 D	08/88	06/90	<b>PN-131</b>		6	23V	24V									
	3.2 D	08/88	06/90	<b>PN-132</b>		6	11V	12V									
	3.2 TD	07/83	08/88	<b>PN-131</b>		6	23V	24V									
	3.2 TD	07/85	08/88	<b>PN-132</b>		6	11V	12V									
	3.3 TD 4x4	01/84	12/87	<b>PN-131</b>		6	23V	24V									
	3.3 TD 4x4	07/85	12/87	<b>PN-132</b>		6	11V	12V									
<b>PATROL GR</b>																	
RD28Ti	2.8 TD	06/97	05/00	<b>CP-05 JPX-05</b>		6	11V	12V									
	2.8 TDiC	10/97	02/00	<b>CP-05 JPX-05</b>		6	11V	12V									
SD33	3.2 D	05/98	06/01	<b>PN-131</b>		6	23V	24V									
TD42	4.2 D	11/88	06/97	<b>PN-135</b>		6	11V	12V									
ZD30DDTi	3.0 DTi	05/00		<b>CP-73</b>		4	11V	12V									





ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**NISSAN****PICK UP**

QD32	D22, 3.2 D 4WD	12/98	04/05	<b>CP-01</b>		4	11V	12V
	D22, 3.2 D 4WD	12/98	04/05	<b>PN-135</b>		4	11V	12V
SD23	720, 2.3 D	04/83	03/86	<b>PN-132</b>		4	11V	12V
	D21, 2.3 D	09/85	10/87	<b>PN-132</b>		4	11V	12V
SD25	720, 2.5 D 4WD	10/85	03/86	<b>PN-132</b>		4	11V	12V
	D21, 2.5 D 4WD	09/85	08/91	<b>PN-132</b>		4	11V	12V
TD25	D21, 2.5 D	09/87	02/98	<b>PN-135</b>		4	11V	12V
	D21, 2.5 D 4WD	08/87	02/98	<b>PN-135</b>		4	11V	12V
	D22, 2.5 D	02/98	07/02	<b>CP-03</b>		4	11V	12V
	D22, 2.5 D 4WD	02/98	07/02	<b>CP-03</b>		4	11V	12V
TD25Ti	D22, 2.5 TD 4WD	05/98	11/01	<b>CP-03</b>		4	11V	12V
TD27	D21, 2.7 D 4WD	08/87	02/98	<b>PN-135</b>		4	11V	12V

**PRESAGE**

YD25DDTi	KH-VU30, KH-VNU30	06/98		<b>CP-72 JPX-72</b>	11065-AD200	4	11V	12V
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**PRIMASTAR**

F9Q 760	1.9 dCi 100	03/01		<b>B-077</b>		4	11V	12V
F9Q 762	1.9 dCi 80	03/01		<b>B-077</b>		4	11V	12V
G9U 632	2.5 dCi 150	10/06		<b>B-116</b>		4	11V	12V
G9U 730	2.5 dCi 140	07/03		<b>B-116</b>		4	11V	12V

**PRIMERA**

CD20	P10, 2.0 D	07/90	01/96	<b>CP-02</b>		4	11V	12V
CD20T	P11, 2.0 TD	09/96	07/02	<b>CP-02</b>		4	11V	12V
F9Q	P12, 1.9 dCi	08/02		<b>B-077</b>		4	11V	12V

**PULSAR**

K9K	C13, 1.5 dCi	10/14		<b>PN-900</b>		4	4.4V	12V
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**PULSAR / LANGLEY / LIBERTA VILLA**

CD17	N-SB12, Q-SB12, SN-13, N-BSN13, Q-BSN13	05/86	12/93	<b>CP-01</b>	11065-G5501	4	11V	12V
	N-SN12	05/83	10/86	<b>PN-126</b>	11065-16A05 11065-16A15	4	6.5V	12V
	N-SN12	05/83	10/86	<b>PN-127</b>	11065-16A00 11065-16A10	4	8.5V	12V
	Q-SN14	08/90	01/95	<b>CP-01</b>	11065-G5501	4	11V	12V
CD20	KD-SN15, KD-SNN15	01/95	09/98	<b>CP-02</b>	11065-57J00		11V	12V

**PULSAR AD VAN / SUNNY AD VAN / DATSUN AD VAN**

CD17	N-VSB11	09/85	05/88	<b>PN-133</b>	11065-16A01 11065-16A11	4	8.5V	12V
	N-VSB11	09/85	05/88	<b>PN-134</b>	11065-10A06 11065-10A16	4	6.5V	12V
	N-VSB11	10/82	09/85	<b>PN-126</b>	11065-16A05 11065-16A15	4	6.5V	12V
	N-VSB11	10/82	09/85	<b>PN-127</b>	11065-16A00 11065-16A10	4	8.5V	12V

**QASHQAI**










K9K 282, K9K 292	+2, 1.5 dCi	02/07	01/10	<b>B-077</b>		4	11V	12V
	+2, 1.5 dCi	01/10	12/13	<b>PN-900</b>		4	4.4V	12V
K9K 282, K9K 292, K9K 430	+2, 1.5 dCi							
K9K 636, K9K 646	1.5 dCi	11/13		<b>PN-900</b>		4	4.4V	12V
M1D, M9R	+2, 2.0 dCi	02/07	01/10	<b>B-077</b>		4	11V	12V
	+2, 2.0 dCi AWD	02/07	01/10	<b>B-077</b>		4	11V	12V
M9R		03/07		<b>CP-75</b>	11065-00Q0C	4	7V	11V
R9M	1.6 dCi	11/13		<b>PN-901</b>		4	4.5V	12V
	1.6 dCi 4x4	11/13		<b>PN-901</b>		4	4.5V	12V
	+2, 1.6 dCi	10/11	12/13	<b>PN-901</b>		4	4.5V	12V
	+2, 1.6 dCi AWD	10/11	12/13	<b>PN-901</b>		4	4.5V	12V

**REGULUS**

QD32 ETi	KD-PR50	08/96		<b>CP-03</b>	11065-OW801	4	11V	12V
TD27 ETi	KD-PR50	08/96		<b>CP-03</b>	11065-OW801	4	11V	12V
ZD30 DDTi	KH-TR50, KH-JTR50	02/99		<b>CP-73</b>	11065-2W202 11065-2W211	4	11V	12V

**SAFARI**

RD28 T	WYY60 NO. 1. 2. 3. CYLINDER ONLY	10/94	10/97	<b>CP-70</b>	11065-V7203	6	6.5V	12V
RD28ETi	KD-WYY61	10/97		<b>CP-04</b>	11065-4P400	6	11V	12V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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## NISSAN

### SAFARI

SD33 SD33T	K-KR160, VRG160	06/80	08/82	<b>PN-120</b>	11065-T3470	6	23V	24V
	K-VR160, VRG160, N-VR161, VRG161, ARG161, KR161	08/82	10/87	<b>PN-124</b>	11065-T8201 11065-T8203	6	23V	24V
	N-VR161, VRV161, N-VRG161, BRG161	10/85	10/87	<b>PN-131</b>	11065-C8600	6	23V	24V
TD42 TD42 T	KC-VRGY60	08/95	10/97	<b>PN-135</b>	11065-43G01 11065-63G00	6	11V	12V
	KD-WRGY60, KD-WRY60	08/95	10/97	<b>PN-138</b>	11065-31N00	6	11V	12V
	KD-WRGY61, KG-VRGY61	10/97	09/99	<b>PN-138</b>	11065-31N00	6	11V	12V
	KG-VRGY61	09/99		<b>PN-138</b>	11065-31N00	6	11V	12V
	S-VRY60, S-VRGY60, U-VRGY60, Q-WGY60, Q-WRY60, Q-WRGY60, W-RGY60	11/87	10/97	<b>PN-136</b>	11065-10T01	6	23V	24V
	WGY60, WRY60	10/94	10/97	<b>PN-135</b>	11065-43G01 11065-63G00	6	11V	12V
	WRGY60, VRGY60	10/94	10/97	<b>PN-135</b>	11065-43G01 11065-63G00	6	11V	12V
ZD30 DDTi	KH-WTY61, KH-VVTY61, Y61	09/99		<b>CP-73</b>	11065-2W202 11065-2W211	4	11V	12V

### SERENA

CD20	S-VVJC23, Q-KVJC23	06/91		<b>CP-02</b>	11065-57J00 11065-5C900	4	11V	12V
CD20 T	Q-KVC23, Q-KVNC23, KD-AVC23	06/91		<b>CP-02</b>	11065-57J00 11065-5C900	4	11V	12V
LD23	2.3D			<b>PN-139</b>	GN039		11V	
	OHC 2.3D			<b>PN-139</b>	11065-7C000 11065-9C600		11V	
YD25DDTi	KH-VC24, UNU24	08/99		<b>CP-72 JPX-72</b>	11065-AD200	4	11V	12V
LD20	2.0 D	11/92	09/94	<b>CP-01</b>		4	11V	12V
LD23	2.3 D	01/95	09/01	<b>PN-138</b>		4	11V	12V

### SKYLINE

LD20	K-VSC211	06/80	09/81	<b>PN-89</b>	11065-V0700 11065-V0710	4	11V	12V
	K-VSJR30, N-VSJR30, N-EU11	10/81	08/85	<b>PN-121</b>	11065-W2500 11065-W2510	4	6.5V	12V
	K-VSJR30, N-VSJR30, N-EU11	10/81	08/85	<b>PN-129</b>	11065-W3400 11065-W3410	4	8.5V	12V
LD28	K-EG211, KEGC211	06/80	08/81	<b>PN-89</b>	11065-V0700 11065-V0710	6	11V	12V
	K-ER30, K-RER30, N-ER30	08/81	08/85	<b>PN-121</b>	11065-W2500 11065-W2510	6	6.5V	12V
	K-ER30, K-RER30, N-ER30	08/81	08/85	<b>PN-129</b>	11065-W3400 11065-W3410	6	8.5V	12V
RD28	N-SR31, Q-SR31 NO.1. 2. 3. CYLINDER ONLY	08/85	05/89	<b>CP-70</b>	11065-V7203	6	6.5V	12V

### SUNNY

CD17	1.7 D	11/90	03/00	<b>CP-01</b>		4	11V	12V
	N-SB-11, W-SB-11	10/82	09/85	<b>PN-126</b>	11065-16A05 11065-16A15	4	6.5V	12V
	N-SB-11, W-SB-11	10/82	09/85	<b>PN-127</b>	11065-16A00 11065-16A10	4	8.5V	12V
	N-SB12, N-WSB12, Q-SB12, Q-SB13	09/85	12/93	<b>CP-01</b>	11065-G5501	4	11V	12V
CD20	X-SB14, SNB14, Y-SNB14, KD-SB14, SNB14	01/94	12/98	<b>CP-02</b>	11065-57J00	4	11V	12V
YD22DD	KE-SB15	09/99		<b>CP-72 JPX-72</b>	11065-AD200	4	11V	12V

### SUNNY VANETTE / DATSUN VANETTE

CD20 CD20T	S-VVJC23, Q-KVJC23, Q-KVNC23	06/91		<b>CP-02</b>	11065-57J00 11065-5C900	4	11V	12V
LD20 LD20T	K-EC120, EGC120, KEC120, N-VEC120, K-KEGC120, KEGC120	10/82		<b>PN-121</b>	11065-W2500 11065-W2510	4	6.5V	12V
	K-EC120, EGC120, KEC120, N-VEC120, K-KEGC120, KEGC120	10/82		<b>PN-129</b>	11065-W3400 11065-W3410	4	8.5V	12V
LD20II	N-VUJJC22, N-KUC22, N-KUJJC22	10/85		<b>CP-01</b>	11065-G5501	4	11V	12V










### TERRANO










QD32ETi	KD-PR50			<b>CP-03</b>	11065-OW801	4	11V	12V
TD27	N-VBYD21, N-WBYD21	08/86		<b>PN-135</b>	11065-43G01	4	11V	12V
TD27 ETi	PR50	09/95		<b>CP-03</b>	11065-OW801	4	11V	12V
TD27T	2.7TD			<b>PN-139</b>	11065-7C000 11065-9C600		11V	
	Q-WBYD21	11/88		<b>PN-138</b>	11065-31N00 11065-G2400	4	11V	12V
TD27Ti	2.7 TDi 4WD	05/96	06/06	<b>CP-01</b>		4	11V	12V
ZD30	3.0 Di 4WD	05/02	09/07	<b>CP-73</b>		4	11V	12V

ENGINE		MODEL		M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>NISSAN</b>										
<b>TERRANO II</b>										
TD27/TD27T	2.7TD					<b>PN-139</b>	11065-7C000 11065-9C600		11V	
TD27T	2.7TD 4WD					<b>PN-139</b>	GN039		11V	
<b>TIIDA</b>										
K9K 278, K9K	1.5 dCi		01/07	12/12		<b>B-077</b>		4	11V	12V
<b>TRADE</b>										
BD30II, BD-30Ti	3.0 D		04/93	12/98		<b>B-077</b>		4	11V	12V
BD-30Ti	100		01/96	12/98		<b>B-077</b>		4	11V	12V
	3.0 TD		11/98	09/04		<b>B-077</b>		4	11V	12V
	3.0 TDiC		06/96	10/01		<b>B-077</b>		4	11V	12V
LD20	2.0 D		04/93	10/98		<b>CP-01</b>		4	11V	12V
LD23	75		05/97	12/00		<b>PN-138</b>		4	11V	12V
	2.3 D		06/96	10/01		<b>PN-138</b>		4	11V	12V
<b>URVAN</b>										
TD23	2.3 D		01/88	05/97		<b>PN-135</b>		4	11V	12V
TD25	2.5 D		12/88	05/97		<b>PN-135</b>		4	11V	12V
<b>VANETTE</b>										
LD23 OHC	2.3D Bus/ 2.3D Cargo					<b>PN-139</b>	11065-7C000 11065-9C600		11V	
LD20, LD20II	C22, 2.0 D		10/86	12/95		<b>CP-01</b>		4	11V	12V
<b>VANETTE CARGO</b>										
LD20	C23, 2.0 D		01/96	05/01		<b>CP-01</b>		4	11V	12V
LD23	C23, 2.3 D		09/94	05/02		<b>PN-138</b>		4	11V	12V
<b>X-TRAIL</b>										
M9R			09/08			<b>CP-75</b>	11065-00Q0C	4	7V	11V
R9M	T32, 1.6 dCi		04/14			<b>PN-901</b>		4	4.5V	12V
	T32, 1.6 dCi 4x4		04/14			<b>PN-901</b>		4	4.5V	12V

**NISSAN DIESEL (UD)**

<b>BISON</b>										
ED30, ED33	K-EHMC341, K-HMC341, K-JVY341, K-YC341		06/80	11/81		<b>PN-130</b>	11065-J6500	4	23V	24V
<b>BUS</b>										
ED6	RM90		12/75	1979		<b>PN-82</b>	11065-Z5000	6	19V	24V
<b>CONDOR</b>										
ED33	K-MH40, K-MGH40, K-CMH40, K-DMH40, K-RMH40, K-RMGH40, K-TMH40, N-MH40, N-MGH40, N-CMH40, N-DMH40, N-JMH40, N-RMH40, N-RMGH40, N-TMH40		12/81	11/86		<b>PN-125</b>	11065-T9000 11065-T9001	4	23V	24V
	N-MH40, N-MGH40, N-DMH40, N-TMH40		11/86	06/90		<b>PN-137</b>	11065-02T00	4	23V	24V
ED35	U-RH40, U-TRH40, U-LE2YS41, U-LE4YS41, U-SE2S41		06/90	05/95		<b>PN-137</b>	11065-02T00	4	23V	24V
ED6	CM90		05/75			<b>PN-82</b>	11065-Z5000	6	19V	24V
QD32	KG-SR4F23		10/95			<b>CP-03</b>	11065-0W801	4	11V	12V
SD25	K-EH40		12/81	06/84		<b>PN-124</b>	11065-T8201 11065-T8203	4	23V	24V
	N-EH40		06/84			<b>PN-123</b>	11065-34W00	4	8.5V	12V
	N-EH40		06/84			<b>PN-124</b>	11065-T8201 11065-T8203	4	23V	24V
TD25	SN2F23, SN4F23, SN6F23		06/95			<b>PN-135</b>	11065-43G01	4	11V	12V
TD27	N-AH40		11/86			<b>PN-135</b>	11065-43G01	4	11V	12V
	N-AH40		11/86			<b>PN-136</b>	11065-10T01	4	23V	24V
<b>UNIVERSAL</b>										
SD15, SD16						<b>PN-81</b>	11065-37506 11065-37507	3	10.5V	12V
SD16						<b>PN-87</b>	11065-31W00	3	11V	12V
SD22, SD25						<b>PN-81</b>	11065-37506 11065-37507	4	10.5V	12V
						<b>PN-87</b>	11065-31W00	4	11V	12V
SD33						<b>PN-81</b>	11065-37506 11065-37507	6	10.5V	12V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
<b>OPEL</b>								
<b>AGILA A</b>								
Z 13 DT	1.3 CDTI	08/03	12/07	<b>B-122</b>	12 14 032, 12 14 070	4	11V	12V
<b>AGILA B</b>								
D13A, Z 13 DTJ	1.3 CDTI	04/08	04/10	<b>B-122</b>	12 14 032, 12 14 070, 47 08 970	4	11V	12V
<b>ANTARA</b>								
	2.2 CDTi	12/10		<b>A-608</b>	4802239	4	4.4V	
Z 20 DMH, Z 20 S	2.0 CDTI	08/06	12/11	<b>A-605</b>		4	4.4V	12V
	2.0 CDTI 4x4	07/06	12/11	<b>A-605</b>		4	4.4V	12V
<b>ARENA</b>								
F8Q 600, F8Q 606	1.9 D	03/98	08/01	<b>B-094</b>		4	11V	12V
S8U 758, S8U 780, S8U 782	2.5 D	03/98	08/01	<b>B-072</b>		4	11.5V	12V
<b>ASCONA B</b>								
20 D	2.0 D	11/79	08/81	<b>B-081</b>		4	11V	12V
<b>ASCONA C</b>								
16 D, 16 DA	1.6 D	03/82	08/88	<b>B-081</b>		4	11V	12V
<b>ASTRA F</b>								
17 D, X 17 DTL	1.7 D	12/91	08/96	<b>B-081</b>		4	11V	12V
17 DR	1.7 D	07/92	01/99	<b>B-081</b>		4	11V	12V
17 DT (TC4EE1)	1.7 TDS	12/91	01/98	<b>CP-50</b>		4	11V	12V
	1.7 TDS	12/91	09/98	<b>CP-50</b>		4	11V	12V
	1.7 TDS	12/91	09/98	<b>PI-57</b>		4	11V	12V
X 17 DTL	1.7 TD	08/94	01/99	<b>B-081</b>		4	11V	12V
<b>ASTRA G</b>								
X 17 DTL	1.7 TD	02/98	04/05	<b>B-081</b>		4	11V	12V
X 20 DTL, Y 20 DTL	2.0 DI	02/98	04/05	<b>B-098</b>		4	11V	12V
Y 20 DTH	2.0 DTI 16V	08/99	08/02	<b>B-098</b>		4	11V	12V
	2.0 DTI 16V	09/02	01/05	<b>B-107</b>		4	11V	12V
Y 22 DTR	2.2 DTI	09/02	10/05	<b>B-107</b>		4	11V	12V
<b>ASTRA G CLASSIC</b>								
Z 13 DTH	1.3 CDTI	01/09		<b>B-122</b>	12 14 032, 12 14 070	4	11V	12V
<b>ASTRA H</b>								
Z 13 DTH	1.3 CDTi	04/05	10/10	<b>B-122</b>	12 14 032, 12 14 070	4	11V	12V
Z 19 DTH	1.9 CDTi	09/04	10/10	<b>B-125</b>		4	11V	12V
Z 19 DTJ	1.9 CDTi 16V	04/04	10/10	<b>B-125</b>		4	11V	12V
Z 19 DTL	1.9 CDTI	06/04	10/10	<b>B-109</b>		4	11V	12V
<b>ASTRA J</b>								
A 20 DTH	2.0 CDTI	09/09	10/15	<b>B-135</b>		4	4.4V	12V
A 20 DTR	2.0 Bi-Turbo CDTI	09/12	10/15	<b>B-135</b>		4	4.4V	12V
<b>CAMPO</b>								
4 JG2T	3.1 TD	12/92	06/01	<b>PI-57</b>		4	11V	12V
	3.1 TD 4x4	12/92	06/01	<b>PI-57</b>		4	11V	12V
4JA1	2.5 D	08/91	06/94	<b>PI-49</b>		4	11V	12V
	2.5 D 4x4	08/91	06/94	<b>PI-49</b>		4	11V	12V
	2.5 DTI	07/01	12/01	<b>PI-49</b>		4	11V	12V
	2.5 DTI 4x4	07/01	12/01	<b>PI-49</b>		4	11V	12V
4JA1-T	2.5 TD	07/94	06/01	<b>PI-49</b>		4	11V	12V
	2.5 TD 4x4	07/94	06/01	<b>PI-49</b>		4	11V	12V
C223	2.2 D	08/87	08/90	<b>PI-58</b>		4	11V	12V
	2.2 D 4x4	08/87	08/90	<b>PI-58</b>		4	11V	12V
<b>COMBO B</b>								
17 D (4EE1), X 17 D (4EE1)	1.7 D	07/94	10/01	<b>CP-50</b>		4	11V	12V
<b>COMBO C</b>								
Y 13 DT, Z 13 DT, Z 13 DTJ	1.3 CDTI 16V	06/04		<b>B-122</b>	12 14 032, 12 14 070, 47 08 970	4	11V	12V
<b>COMBO D</b>								
A 16 FDH, A 16 FDL	1.6 CDTI	02/12		<b>B-135</b>	1214094	4	4.4V	12V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.	
<b>OPEL</b>									
A 20 FD	2.0 CDTI	02/12		<b>B-135</b>		4	4.4V	12V	
<b>CORSA A</b>									
15 D (4EC1)	1.5 D	06/87	03/93	<b>PI-58</b>		4	11V	12V	
15 DT (T4EC1)	1.5 TD	03/88	03/93	<b>PI-51</b>		4	5V	12V	
	1.5 TD	03/88	03/93	<b>PI-57</b>		4	11V	12V	
	1.5 TD	10/87	03/93	<b>PI-51</b>		4	5V	12V	
	1.5 TD	10/87	03/93	<b>PI-57</b>		4	11V	12V	
<b>CORSA B</b>									
15 D (4EC1)	1.5 D	03/93	09/00	<b>CP-50</b>		4	11V	12V	
15 DT (T4EC1), X 15 DT (T4EC1)	1.5 TD	03/93	09/00	<b>CP-50</b>		4	11V	12V	
17 D (4EE1), X 17 D (4EE1)	1.7 D	02/96	09/00	<b>CP-50</b>		4	11V	12V	
<b>CORSA C</b>									
Z 13 DT	1.3 CDTI	06/03	12/09	<b>B-122</b>	12 14 032, 12 14 070	4	11V	12V	
	1.3 CDTI 16V	07/05	12/09	<b>B-122</b>	12 14 032, 12 14 070	4	11V	12V	
<b>CORSA D</b>									
Z 13 DTH, Z 13 DTJ	1.3 CDTI	07/06	08/14	<b>B-122</b>	12 14 032, 12 14 070	4	11V	12V	
<b>FRONTERA A</b>									
23 DTR	2.3 TD	03/92	10/98	<b>B-081</b>		4	11V	12V	
25TDS (VM41B)	2.5 TDS	09/96	10/98	<b>B-086</b>		4	11V	12V	
28 TDI (4JB1-T)	2.8 TD	03/95	08/98	<b>PI-49</b>		4	11V	12V	
<b>FRONTERA B</b>									
X22DTH	2.2 DTI	10/98	09/02	<b>B-098</b>		4	11V	12V	
Y22DTH	2.2 DTI	10/98	07/04	<b>B-107</b>		4	11V	12V	
<b>INSIGNIA</b>									
A 20 DT, A 20 DTC, A 20 DTH, A 20 DTJ, A 20 DTL	A, 2.0 CDTI	07/08	03/17	<b>B-135</b>		2	4.4V	12V	
A 20 DTH	A, 2.0 CDTI 4x4	06/10	03/17	<b>B-135</b>		2	4.4V	12V	
A 20 DTR	A, 2.0 Bi-Turbo CDTI 4x4	07/08	03/17	<b>B-135</b>		2	4.4V	12V	
<b>KADETT D</b>									
16 D	1.6 D	03/82	08/84	<b>B-081</b>		4	11V	12V	
<b>KADETT E</b>									
15 DT (T4EC1)	1.5 TD	07/88	08/91	<b>PI-51</b>		4	5V	12V	
	1.5 TD	07/88	08/91	<b>PI-57</b>		4	11V	12V	
16 D, 16 DA	1.6 D	08/84	12/89	<b>B-081</b>		4	11V	12V	
17 D, 17 DR	1.7 D	08/88	07/94	<b>B-081</b>		4	11V	12V	
<b>MERIVA A</b>									
Y 13 DT, Z 13 DT, Z 13 DTJ	1.3 CDTI	09/03	05/10	<b>B-122</b>	12 14 032, 12 14 070	4	11V	12V	
<b>MONTEREY A</b>									
4 JG2TC	3.1 TD	09/91	07/98	<b>PI-57</b>		4	11V	12V	
<b>MONTEREY B</b>									
4 JX1	3.0 DTI	07/98	08/99	<b>PI-172</b>		4	11V	12V	
<b>MOVANO A</b>									
F9Q 770, F9Q 772, F9Q 774	1.9 DTI	09/00		<b>B-077</b>		4	11V	12V	
G9T 720, G9T 722, G9T 750	2.2 DTI	09/00		<b>B-116</b>		4	11V	12V	
G9U 632, G9U 650	2.5 CDTI	10/03		<b>B-116</b>		4	11V	12V	
G9U 720, G9U 724, G9U 750, G9U 754	2.5 DTi	10/01		<b>B-116</b>		4	11V	12V	
S8U 770, S8U 772	2.5 D	07/98	09/00	<b>B-072</b>		4	11.5V	12V	
ZD3 200, ZD3 202	3.0 DTI	10/03		<b>CP-73</b>		4	11V	12V	
<b>OMEGA A</b>									
23 DTR	2.3 TD Interc.	08/88	03/94	<b>B-081</b>		4	11V	12V	
23 YD	2.3 D	09/86	03/94	<b>B-081</b>		4	11V	12V	
23 YDT	2.3 TD	09/86	08/88	<b>B-081</b>		4	11V	12V	



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B.V.

# OPEL

## OMEGA B

U 25 DT, U 25 TD, X 25 DT, X 25 TD	2.5 TD	04/94	07/03	<b>B-081</b>		6	11V	12V
X 20 DTH	2.0 DTI 16V	09/97	09/00	<b>B-098</b>		4	11V	12V
X 25 DT, X 25 TD	2.5 D	05/94	05/99	<b>B-081</b>		6	11V	12V
Y 22 DTH	2.2 DTI 16V	09/00	07/03	<b>B-107</b>		4	11V	12V
Y 25 DT, Y 25 TD	2.5 DTI	09/01	07/03	<b>B-104</b>		6	11V	12V

## REKORD E

20 D	2.0 D	09/77	10/82	<b>B-081</b>		4	11V	12V
21 D	2.1 D	09/77	07/78	<b>B-081</b>		4	11V	12V
23 D	2.2 D	08/78	08/83	<b>B-081</b>		4	11V	12V
	2.2 D	08/78	08/86	<b>B-081</b>		4	11V	12V
	2.3 D	11/82	08/86	<b>B-081</b>		4	11V	12V
23 TD	2.2 TD	06/84	08/86	<b>B-081</b>		4	11V	12V

## SENATOR A

23 TD	2.2 TD	11/84	02/87	<b>B-081</b>		4	11V	12V
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## SIGNUM

Y 20 DTH	2.0 DTI	05/03	04/04	<b>B-107</b>		4	11V	12V
Y 22 DTR	2.2 DTI	05/03	04/04	<b>B-107</b>		4	11V	12V
Z 19 DTH	1.9 CDTI	04/04	02/08	<b>B-125</b>		4	11V	12V
Z 19 DTL	1.9 CDTI	04/04	02/08	<b>B-109</b>		4	11V	12V

## SINTRA

X 22 DTH	2.2 DTI	07/97	04/99	<b>B-098</b>		4	11V	12V
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## TIGRA TwinTop

Z 13 DT	1.3 CDTI	06/04	12/10	<b>B-122</b>	12 14 032, 12 14 070	4	11V	12V
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## VECTRA A

17 D, 17 DR	1.7 D	09/88	11/95	<b>B-081</b>		4	11V	12V
17 DT (TC4EE1)	1.7 TD	03/90	11/95	<b>CP-50</b>		4	11V	12V
	1.7 TD	03/90	11/95	<b>PI-58</b>		4	11V	12V

## VECTRA B

X 17 DT (TC4EE1)	1.7 TD	10/95	12/98	<b>CP-50</b>		4	11V	12V
X 20 DTH	2.0 DTI 16V	06/97	07/03	<b>B-098</b>		4	11V	12V
X 20 DTL	2.0 DI 16V	11/96	04/02	<b>B-098</b>		4	11V	12V
	2.0 DI 16V	11/96	04/02	<b>B-100</b>		4	11V	12V
Y 20 DTH	2.0 DTI 16V	06/97	07/03	<b>B-107</b>		4	11V	12V
Y 22 DTR	2.2 DTI 16V	09/00	07/03	<b>B-107</b>		4	11V	12V

## VECTRA C

Y 20 DTH	2.0 DTI	10/03	08/05	<b>B-107</b>		4	11V	12V
	2.0 DTI 16V	04/02	08/06	<b>B-107</b>		4	11V	12V
Y 22 DTR	2.2 DTI	10/03	12/05	<b>B-107</b>		4	11V	12V
	2.2 DTI 16V	04/02	07/06	<b>B-107</b>		4	11V	12V
Z 19 DTH	1.9 CDTI	04/04	08/08	<b>B-125</b>		4	11V	12V
Z 19 DTL	1.9 CDTI	04/04	01/09	<b>B-109</b>		4	11V	12V

## VIVARO A

F9Q 760	1.9 DTI	08/01		<b>B-077</b>		4	11V	12V
	1.9 DTI	08/06		<b>B-077</b>		4	11V	12V
F9Q 762	1.9 DI	08/01		<b>B-077</b>		4	11V	12V
G9U 630	2.5 CDTI	08/06		<b>B-116</b>		4	11V	12V
G9U 730	2.5 DTI	05/03		<b>B-116</b>		4	11V	12V
M9R 692	2.0 CDTI	12/11		<b>PN-901</b>		4	4.5V	12V

## VIVARO B

R9M-MA, R9M-MB, R9M-MC, R9M-MD, R9M-ME	1.6 CDTI	06/14		<b>PN-901</b>	95518024, 44 23 206	4	4.5V	12V
R9M-MG, R9M-MH, R9M-MJ, R9M-MK	1.6 CDTI	06/14		<b>PN-901</b>	95518024, 44 23 206 (CYLINDER NO. 2-4)	3	4.5V	12V

## ZAFIRA A

X 20 DTL	2.0 DI 16V	07/99	06/05	<b>B-098</b>		4	11V	12V
Y 20 DTH	2.0 DTI 16V	09/00	06/05	<b>B-098</b>		4	11V	12V
	2.0 DTI 16V	09/00	06/05	<b>B-107</b>		4	11V	12V
Y 22 DTR	2.2 DTI 16V	01/02	06/05	<b>B-107</b>		4	11V	12V



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**OPEL****ZAFIRA B**

Z 19 DTH	1.9 CDTI	07/05	04/15	<b>B-125</b>		4	11V	12V
Z 19 DTL	1.9 CDTI	07/05	04/15	<b>B-109</b>		4	11V	12V

**ZAFIRA Tourer C**

A 20 DT	2.0 CDTi	10/11		<b>B-135</b>		2	4.4V	12V
A 20 DTH	2.0 CDTi	01/12		<b>B-135</b>		2	4.4V	12V

**PERKINS****CONSTRUCTION MACHINERY**

				<b>PS-220</b>	2666-A005 2666-A014		11V	
				<b>PS-221</b>	2666-A012 2666-A013		11V	

**PEUGEOT****106 I**

K9Y (TUD3Y)	1.4 D	09/92	04/96	<b>B-072</b>		4	11.5V	12V
VJY (TUD5), VJZ (TUD5)	1.5 D	06/94	04/96	<b>B-087</b>		4	11V	12V

**106 II**

VJX (TUD5), VJY (TUD5), VJZ (TUD5)	1.5 D	05/96	12/04	<b>B-087</b>		4	11V	12V
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**107**

8HT (DV4TD)	1.4 HDi	06/05	05/14	<b>B-106</b>		4	11V	12V
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**205 I**

161A (XUD7)	1.7 Diesel	08/83	10/87	<b>B-081</b>		4	11V	12V
A9A (XUD7)	1.8 D	02/83	07/90	<b>B-081</b>		4	11V	12V

**205 II**

161A (XUD7)	1.7 Diesel	07/87	09/98	<b>B-081</b>		4	11V	12V
A8B (XUD7TE)	1.8 TD	01/90	09/98	<b>B-081</b>		4	11V	12V
DJZ (XUD9Y)	1.9 Diesel	10/87	09/98	<b>B-081</b>		4	11V	12V
XUD7T	1.8 XDT	08/90	05/97	<b>B-081</b>		4	11V	12V

**206**

8HX (DV4TD), 8HZ (DV4TD)	1.4 HDi	09/01		<b>B-106</b>		4	11V	12V
	1.4 HDi eco 70	09/01		<b>B-106</b>		4	11V	12V
9HY (DV6TED4), 9HZ (DV6TED4)	1.6 HDi 110	05/04	05/06	<b>B-106</b>		4	11V	12V
	1.6 HDi 110	05/06		<b>B-123</b>		4	11V	12V
RHY (DW10TD)	2.0 HDi	07/02		<b>B-089</b>		4	11V	12V
	2.0 HDi 90	12/99	09/09	<b>B-089</b>		4	11V	12V
WJY (DW8B), WJZ (DW8)	1.9 D	09/98	05/07	<b>B-087</b>		4	11V	12V

**206 CC**

9HZ (DV6TED4)	1.6 HDi 110	04/05	05/06	<b>B-106</b>		4	11V	12V
	1.6 HDi 110	05/06	02/07	<b>B-123</b>		4	11V	12V

**206+**

8HR (DV4C), 8HX (DV4TD), 8HZ (DV4TD)	1.4 HDi eco 70	01/09	06/13	<b>B-106</b>		4	11V	12V
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**207**

8HR (DV4C)	1.4 HDi	02/06	12/15	<b>PZ-711</b>		4	5V	12V
8HZ (DV4TD)	1.4 HDi	02/06	12/15	<b>B-123</b>		4	11V	12V
	1.4 HDi	04/07		<b>B-106</b>		4	11V	12V
9HP (DV6DTED), 9HR (DV6C)	1.6 HDi	08/09		<b>PZ-711</b>		4	5V	12V
9HR (DV6C)	1.6 HDi 110	08/09	12/12	<b>PZ-711</b>		4	5V	12V
9HV (DV6TED4B), 9HV (DV6TED4BU), 9HX (DV6ATED4), 9HY (DV6TED4), 9HZ (DV6TED4)	1.6 HDi	02/06	05/06	<b>B-106</b>		4	11V	12V
	1.6 HDi	05/06	10/13	<b>B-123</b>		4	11V	12V
9HV (DV6TED4B), 9HV (DV6TED4BU), 9HX (DV6ATED4), 9HZ (DV6TED4)	1.6 HDi	02/07	01/15	<b>B-123</b>		4	11V	12V





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## PEUGEOT

PEUGEOT									
<b>208 I</b>									
8HP (DV4C), 8HR (DV4C)	1.4 HDi	03/12		<b>PZ-711</b>		4	5V	12V	
9HD (DV6C), 9HJ (DV6DTEDM), 9HP (DV6DTE), BHJ (DV6FC)	1.6 HDi	03/12		<b>PZ-711</b>		4	5V	12V	
9HK (DV6ETEDM), BHW (DV6FE)	1.6 HDi / BlueHDi 75	01/13		<b>PZ-711</b>		4	5V	12V	
BHY (DV6FD)	1.6 BlueHDi 100	01/15		<b>PZ-711</b>		4	5V	12V	
BHZ (DV6FC)	1.6 BlueHDi 120	11/13		<b>PZ-711</b>		4	5V	12V	
<b>301</b>									
9HF (DV6DTE), 9HJ (DV6DTEDM)	1.6 HDi 90	11/12		<b>PZ-711</b>		4	5V	12V	
BHY (DV6FD)	1.6 BlueHDi 100	04/14		<b>PZ-711</b>		4	5V	12V	
<b>304</b>									
149 (XID)	1.5 Diesel	10/69	10/79	<b>B-081</b>		4	11V	12V	
<b>305 I</b>									
149 (XID)	1.5 Diesel	11/77	09/82	<b>B-081</b>		4	11V	12V	
<b>305 II</b>									
161A (XUD7)	1.8 D	11/82	12/88	<b>B-081</b>		4	11V	12V	
162 (XUD9), D9A (XUD9)	1.9 D	10/82	12/88	<b>B-081</b>		4	11V	12V	
<b>306</b>									
A9A (XUD7)	1.8 D	05/93	05/01	<b>B-081</b>		4	11V	12V	
D8A (XUD9TE), D9B (XUD9A), DHY (XUD9BSD), DJY (XUD9A), DJZ (XUD9Y), XUD9	1.9 D	01/93	04/02	<b>B-081</b>		4	11V	12V	
D8A (XUD9TE), DHY (XUD9TE)	1.9 TD	02/97	04/02	<b>B-081</b>		4	11V	12V	
D9B (XUD9A), XUD9	1.9 STD	02/94	05/99	<b>B-081</b>		4	11V	12V	
DHY (XUD9TE)	1.9 DT	05/93	05/01	<b>B-081</b>		4	11V	12V	
	1.9 SRDT	06/94	05/01	<b>B-081</b>		4	11V	12V	
DJY (XUD9A), DJZ (XUD9Y)	1.9 SLD	06/94	05/01	<b>B-081</b>		4	11V	12V	
RHY (DW10TD)	2.0 HDi 90	06/99	12/02	<b>B-089</b>		4	11V	12V	
WJY (DW8B), WJZ (DW8)	1.9 D	09/98	08/02	<b>B-087</b>		4	11V	12V	
<b>307</b>									
8HX (DV4TD), 8HZ (DV4TD)	1.4 HDi	10/01	06/05	<b>B-106</b>		4	11V	12V	
9HV (DV6TED4B), 9HV (DV6TED4BU), 9HX (DV6ATED4)	1.6 HDi	04/05	05/06	<b>B-106</b>		4	11V	12V	
	1.6 HDi	05/06	03/09	<b>B-123</b>		4	11V	12V	
9HV (DV6TED4B), 9HV (DV6TED4BU), 9HX (DV6ATED4), 9HX (DV6AATED4)	1.6 HDi	04/05	05/06	<b>B-106</b>		4	11V	12V	
	1.6 HDi	05/06	04/08	<b>B-123</b>		4	11V	12V	
	1.6 HDi 90	04/05	04/08	<b>B-123</b>		4	11V	12V	
9HY (DV6TED4), 9HZ (DV6TED4)	1.6 HDi 110	05/06	03/09	<b>B-123</b>		4	11V	12V	
	1.6 HDi 110	11/03	05/06	<b>B-106</b>		4	11V	12V	
RHR (DW10BTED4)	2.0 HDi 135	10/03	04/09	<b>B-131</b>		4	11V	12V	
RHS (DW10ATED)	2.0 HDi 110	04/03	12/09	<b>B-131</b>		4	11V	12V	
	2.0 HDi 110	08/00	04/03	<b>B-089</b>		4	11V	12V	
RHY (DW10TD)	2.0 HDi 90	08/00	04/08	<b>B-089</b>		4	11V	12V	
<b>308 I</b>									
9HD (DV6C), 9HJ (DV6DTEDM), 9HP (DV6DTE), 9HR (DV6C), 9HV (DV6TED4B), 9HV (DV6TED4BU), 9HX (DV6ATED4)	1.6 HDi	09/07	10/14	<b>PZ-711</b>		4	5V	12V	



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B.V.

**PEUGEOT****308 I**

9HV (DV6TED4B), 9HV (DV6TED4BU), 9HX (DV6ATED4), 9HZ (DV6TED4)	1.6 HDi	09/07	10/14	<b>B-123</b>		4	11V	12V
RHE (DW10CTED4), RHH (DW10CTED4)	2.0 HDi	06/09	10/14	<b>PZ-711</b>		4	5V	12V
RHR (DW10BTED4), RHR (DW10CB)	2.0 HDi	09/07	10/14	<b>B-131</b>		4	11V	12V

**308 II**

9HC (DV6C), BHZ (DV6FC)	1.6 HDi / BlueHDi 115	09/13		<b>PZ-711</b>		4	5V	12V
9HP (DV6DTEd)	1.6 HDi	09/13		<b>PZ-711</b>		4	5V	12V
	1.6 HDi 92	03/14		<b>PZ-711</b>		4	5V	12V
AHW (DW10FC)	2.0 GT HDi 180 / BlueHDi 180	06/14		<b>PZ-711</b>		4	5V	12V
AHX (DW10FCD), AHX (DW10FD)	2.0 BlueHDi 150	11/13		<b>PZ-711</b>		4	5V	12V
BHY (DV6FD)	1.6 BlueHDi 100	04/14		<b>PZ-711</b>		4	5V	12V
	1.6 HDi 100	04/14		<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	1.6 BlueHDi 120	11/13		<b>PZ-711</b>		4	5V	12V

**308 CC**

9HD (DV6C), 9HR (DV6C)	1.6 HDi	06/09	12/14	<b>PZ-711</b>		4	5V	12V
RHF (DW10BTED4), RHR (DW10BTED4)	2.0 HDi	04/09	12/14	<b>B-131</b>		4	11V	12V
RHH (DW10CTED4)	2.0 HDi	06/09	12/14	<b>PZ-711</b>		4	5V	12V

**309 I**

162 (XUD9), D9A (XUD9)	1.9 D	06/86	07/89	<b>B-081</b>		4	11V	12V
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**309 II**

161A (XUD7)	1.8 Diesel	07/89	12/93	<b>B-081</b>		4	11V	12V
162 (XUD9), D9A (XUD9), DJZ (XUD9Y)	1.9 Diesel	07/89	12/93	<b>B-081</b>		4	11V	12V
A8B (XUD7TE)	1.8 TD	08/89	12/93	<b>B-081</b>		4	11V	12V
	1.9 D	09/89	10/93	<b>B-081</b>		4	11V	12V

**405 I**

A8A (XUD7TE)	1.8 DT 4x4	05/90	07/92	<b>B-081</b>		4	11V	12V
A8A (XUD7TE), AJZ (XUD7TEY)	1.8 TD	10/88	08/92	<b>B-081</b>		4	11V	12V
	1.8 Turbo Diesel	03/88	12/92	<b>B-081</b>		4	11V	12V
D9B (XUD9A), DJY (XUD9A), DJZ (XUD9Y)	1.9 D	10/88	08/92	<b>B-081</b>		4	11V	12V
D9B (XUD9A), DJZ (XUD9Y)	1.9 Diesel	03/88	12/92	<b>B-081</b>		4	11V	12V
	1.8 D	04/90	07/92	<b>B-081</b>		4	11V	12V
	1.8 GLD	04/90	07/92	<b>B-081</b>		4	11V	12V

**405 II**

D9B (XUD9A), DJY (XUD9A), DJZ (XUD9Y)	1.9 D	08/92	11/99	<b>B-081</b>		4	11V	12V
DHY (XUD9TE)	1.9 TD	08/92	05/97	<b>B-081</b>		4	11V	12V

**406**

4HX (DW12TED4/FAP)	2.2 HDi	03/00	04/03	<b>B-089</b>		4	11V	12V
	2.2 HDi	04/03	10/04	<b>B-131</b>		4	11V	12V
DHW (XUD9SD)	1.9 D	10/96	10/04	<b>B-081</b>		4	11V	12V
DHX (XUD9TE), DHY (XUD9TE)	1.9 TD	01/96	10/04	<b>B-081</b>		4	11V	12V
P8C (XUD11BTE)	2.1 TD 12V	01/96	10/04	<b>B-081</b>		4	11V	12V
RHS (DW10ATED), RHZ (DW10ATED)	2.0 HDi 110	02/99	04/03	<b>B-089</b>		4	11V	12V
	2.0 HDi 110	04/03	10/04	<b>B-131</b>		4	11V	12V
RHY (DW10TD)	2.0 HDi 90	02/99	10/04	<b>B-089</b>		4	11V	12V
RHZ (DW10ATED)	2.0 HDi 110	06/98	08/01	<b>B-089</b>		4	11V	12V

**406 Coupe**

4HX (DW12TED4/FAP)	2.2 HDi	03/00	04/03	<b>B-089</b>		4	11V	12V
	2.2 HDi	04/03	12/04	<b>B-131</b>		4	11V	12V



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## PEUGEOT

407									
4HP (DW12BTED4)	2.2 HDi	03/06	12/10	<b>B-124</b>		4	11V	12V	
4HT (DW12BTED4)	2.2 HDi 170	03/06	12/10	<b>B-124</b>		4	11V	12V	
9HZ (DV6TED4)	1.6 HDi 110	05/04	05/06	<b>B-106</b>		4	11V	12V	
	1.6 HDi 110	05/06	12/10	<b>B-123</b>		4	11V	12V	
RHF (DW10BTED4), RHR (DW10BTED4)	2.0 HDi	08/08	12/10	<b>B-131</b>		4	11V	12V	
RHH (DW10CTED4)	2.0 HDi	06/09	12/10	<b>PZ-711</b>		4	5V	12V	
RHR (DW10BTED4)	2.0 HDi 135	05/04	12/10	<b>B-131</b>		4	11V	12V	
UHZ (DT17)	2.7 HDi	10/05	12/10	<b>B-134</b>		6	11V	12V	
407 Coupe									
RHH (DW10CTED4)	2.0 HDi	06/09		<b>PZ-711</b>		4	5V	12V	
RHR (DW10BTED4)	2.0 HDi	10/05		<b>B-131</b>		4	11V	12V	
UHZ (DT17)	2.7 HDi	10/05		<b>B-134</b>		6	11V	12V	
504									
134 (XD2)	2.3 D	07/75	12/89	<b>B-081</b>		4	11V	12V	
XD4x88	1.9 D	03/73	12/89	<b>B-081</b>		4	11V	12V	
XD4x90, XD90	2.1 D	02/71	07/86	<b>B-081</b>		4	11V	12V	
505									
147 (XD2S)	2.3 Diesel	04/82	06/86	<b>B-081</b>		4	11V	12V	
	2.3 Turbo Diesel	09/80	06/86	<b>B-081</b>		4	11V	12V	
152A (XD3T), 152B (XD3TE)	2.5 Turbo Diesel	10/83	12/93	<b>B-081</b>		4	11V	12V	
155 (XD3)	2.5 Diesel	06/81	12/93	<b>B-081</b>		4	11V	12V	
XD2	2.3 D	05/79	09/84	<b>B-081</b>		4	11V	12V	
XD3T	2.5 D	10/85	08/91	<b>B-081</b>		4	11V	12V	
508 I									
9HD (DV6CTED), 9HL (DV6C), 9HR (DV6C), BHX (DV6FC)	1.6 HDi	11/10		<b>PZ-711</b>		4	5V	12V	
AHW (DW10FC)	2.0 BlueHDi 180	04/14		<b>PZ-711</b>		4	5V	12V	
AHX (DW10FD)	2.0 BlueHDi 150	04/14		<b>PZ-711</b>		4	5V	12V	
BHZ (DV6FC)	1.6 BlueHDi 120	03/14		<b>PZ-711</b>		4	5V	12V	
RHA (DW10CTED4), RHF (DW10BTED4), RHR (DW10BTED4)	2.0 HDi	11/10		<b>B-131</b>		4	11V	12V	
RHC (DW10CTED4)	2.0 HDi 180 RXH	10/14		<b>PZ-711</b>		4	5V	12V	
	2.0 HDi Hybrid4 AWC	11/10		<b>PZ-711</b>		4	5V	12V	
	2.0 HDi RXH Hybrid4	11/10		<b>PZ-711</b>		4	5V	12V	
RHH (DW10CTED4)	2.0 HDi	11/10		<b>PZ-711</b>		4	5V	12V	
604									
147 (XD2S)	2.3 TD	09/79	05/83	<b>B-081</b>		4	11V	12V	
152A (XD3T)	2.5 TD	08/83	12/86	<b>B-081</b>		4	11V	12V	
605									
P8C (XUD11BTE), PHZ (XUD11ATE)	2.1 TD 12V	08/94	09/99	<b>B-081</b>		4	11V	12V	
P9A (XUD11A)	2.1 D	06/89	07/95	<b>B-081</b>		4	11V	12V	
PHZ (XUD11ATE)	2.1 Turbo Diesel	06/89	09/99	<b>B-081</b>		4	11V	12V	
THY (DK5ATE)	2.5 Turbo Diesel	07/94	09/99	<b>B-081</b>		4	11V	12V	
607									
4HT (DW12BTED4)	2.2 HDi	05/06	06/10	<b>B-124</b>		4	11V	12V	
4HX (DW12TED4/FAP)	2.2 HDi	02/00	04/03	<b>B-089</b>		4	11V	12V	
	2.2 HDi	04/03	02/06	<b>B-131</b>		4	11V	12V	
DT17TED4	2.7 HDi 24V	12/04	07/11	<b>B-134</b>		6	11V	12V	
RHR (DW10BTED4)	2.0 HDi	09/05	07/11	<b>B-131</b>		4	11V	12V	
RHS (DW10ATED), RHZ (DW10ATED)	2.0 HDi	04/03	09/05	<b>B-131</b>		4	11V	12V	
	2.0 HDi	05/00	04/03	<b>B-089</b>		4	11V	12V	
806									
DHX (XUD9TE), DHY (XUD9TE)	1.9 TD	07/95	08/02	<b>B-081</b>		4	11V	12V	
P8C (XUD11BTE)	2.1 td 12V	06/96	08/99	<b>B-081</b>		4	11V	12V	
RHW (DW10ATED4)	2.0 HDi 16V	08/99	08/02	<b>B-089</b>		4	11V	12V	
RHZ (DW10ATED)	2.0 HDi	08/99	08/02	<b>B-089</b>		4	11V	12V	



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4HR (DW12BTED4), 4HT (DW12BTED4), 4HW (DW12BTED4)	2.2 HDi	06/02		<b>B-124</b>		4	11V	12V
4HX (DW12TED4/FAP)	2.2 HDi	04/03		<b>B-131</b>		4	11V	12V
	2.2 HDi	06/02	04/03	<b>B-089</b>		4	11V	12V
4HZ (DW12TED4)	2.2 HDi	04/04		<b>B-131</b>		4	11V	12V
RHD (DW10CTED4), RHK (DW10UTED4), RHR (DW10BTED4), RHW (DW10ATED4)	2.0 HDi	04/04		<b>B-131</b>		4	11V	12V
RHH (DW10CTED4)	2.0 HDi	06/09		<b>PZ-711</b>		4	5V	12V
RHM (DW10ATED4), RHT (DW10ATED4), RHW (DW10ATED4)	2.0 HDi	04/03		<b>B-131</b>		4	11V	12V
	2.0 HDi	06/02	04/03	<b>B-089</b>		4	11V	12V

**1007**

8HX (DV4TD), 8HZ (DV4TD)	1.4 HDi	04/05		<b>B-106</b>		4	11V	12V
9HZ (DV6TED4)	1.6 HDi	06/07		<b>B-123</b>		4	11V	12V

**2008**

8HR (DV4C)	1.4 HDi	06/13		<b>PZ-711</b>		4	5V	12V
9HD (DV6CTED), 9HP (DV6DTE)	1.6 HDi	03/13		<b>PZ-711</b>		4	5V	12V
BHW (DV6FE)	1.6 BlueHDi 75	01/15		<b>PZ-711</b>		4	5V	12V
BHX (DV6FC)	1.6 BlueHDi	07/14		<b>PZ-711</b>		4	5V	12V
BHY (DV6FD)	1.6 BlueHDi 100	01/15		<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	1.6 BlueHDi 120	07/14		<b>PZ-711</b>		4	5V	12V

**3008**

9HD (DV6CTED), 9HR (DV6C)	1.6 HDi	12/09	08/16	<b>PZ-711</b>		4	5V	12V
9HZ (DV6TED4)	1.6 HDi	06/09	08/16	<b>B-123</b>		4	11V	12V
AHX (DW10FD), RHE (DW10CTED4)	2.0 HDi 150 / BlueHDi 150	06/09	08/16	<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	1.6 BlueHDi 120	05/14	08/16	<b>PZ-711</b>		4	5V	12V
RHC (DW10CTED4)	2.0 HDi Hybrid4	02/11	08/16	<b>PZ-711</b>		4	5V	12V
RHD (DW10CB), RHH (DW10CTED4)	2.0 HDi	06/09	08/16	<b>PZ-711</b>		4	5V	12V

**3008 SUV**

AHW (DW10FC)	2.0 BlueHDi 180	05/16		<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	1.6 BlueHDi 120	05/16		<b>PZ-711</b>		4	5V	12V

**4007**

4HK (DW12MTED4), 4HN (DW12MTED4)	2.2 HDi	02/07	03/13	<b>B-124</b>		4	11V	12V
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**4008**

6HZ (4N13)	1.8 HDi AWC	05/12		<b>CP-08</b>	1607849980, 1820-A019	4	11V	12V
9HD (DV6C)	1.6 HDi	05/12		<b>PZ-711</b>		4	5V	12V
	1.6 HDi AWC	05/12		<b>PZ-711</b>		4	5V	12V
	1.8 HDi	05/12		<b>CP-08</b>	1607849980, 1820-A019	4	11V	12V

**5008 I**

9HD (DV6C), 9HR (DV6C)	1.6 HDi	08/10	03/17	<b>PZ-711</b>		4	5V	12V
9HZ (DV6TED4)	1.6 HDi	09/09	03/17	<b>B-123</b>		4	11V	12V
AHR (DW10FD), AHX (DW10FD), RHE (DW10CTED4)	2.0 HDi 150 / BlueHDi 150	06/09	03/17	<b>PZ-711</b>		4	5V	12V
AHV (DW10FD), RHD (DW10CB), RHH (DW10CTED4)	2.0 HDi 136 / BlueHDi 136	02/12	03/17	<b>PZ-711</b>		4	5V	12V
BHZ (DV6FC)	1.6 BlueHDi 120	05/14	03/17	<b>PZ-711</b>		4	5V	12V
RHH (DW10CTED4)	2.0 HDi	09/09	03/17	<b>PZ-711</b>		4	5V	12V

**BIPPER**

8HS (DV4TED)	1.4 HDi	02/08		<b>B-123</b>		4	11V	12V
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**BOXER**

4HG (P22DTE)	2.2 HDi 110	03/11		<b>PZ-713</b>		4	4.4V	12V
4HH (P22DTE)	2.2 HDi 130	03/11		<b>PZ-713</b>		4	4.4V	12V
4HJ (P22DTE)	2.2 HDi 150	03/11		<b>PZ-713</b>		4	4.4V	12V
4HU (P22DTE)	2.2 HDi 120	04/06		<b>B-101</b>		4	11.5V	12V



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## BOXER

4HV (P22DTE)	2.2 HDi 100	04/06		<b>B-101</b>		4	11.5V	12V
4HY (DW12UTED)	2.2 HDi	04/02	04/03	<b>B-089</b>		4	11V	12V
	2.2 HDi	04/03		<b>B-131</b>		4	11V	12V
8140.43N, 8140.43S (F28DTCR)	2.8 HDi	04/02		<b>B-097</b>		4	11V	12V
8140.43S (F28DTCR)	2.8 HDi	10/00	04/02	<b>B-097</b>		4	11V	12V
	2.8 HDi 4x4	04/02		<b>B-097</b>		4	11V	12V
	2.8 HDi 4x4	10/00	04/02	<b>B-097</b>		4	11V	12V
	2.8 HDi AWD	10/00	11/01	<b>B-097</b>		4	11V	12V
8140.63 (F28D)	2.8 D	01/99	02/02	<b>B-097</b>		4	11V	12V
AHN (DW10FUD)	2.0 BlueHDi 130	07/15		<b>PZ-711</b>		4	5V	12V
AHP (DW10FUC)	2.0 BlueHDi 160	07/15		<b>PZ-711</b>		4	5V	12V
D8C (XUD9UTF)	1.9 TD 4x4	07/96	04/02	<b>B-081</b>		4	11V	12V
D8C (XUD9UTF), DHY (XUD9TE), XUD9TE	1.9 TD	03/94	04/02	<b>B-081</b>		4	11V	12V
D9B (XUD9AU), DJY (XUD9A)	1.9 D	03/94	04/02	<b>B-081</b>		4	11V	12V
DW10FUE	2.0 BlueHDi 110	07/15		<b>PZ-711</b>		4	5V	12V
F1CE0481D (F30DT)	3.0 HDi	07/06		<b>PM-403</b>		4	11V	12V
	3.0 HDi 160	04/06		<b>PM-403</b>		4	11V	12V
F1CE3481E (F30DTE)	3.0 HDi 175	03/11		<b>PM-403</b>		4	11V	12V
F1CE3481N (F30DTE)	3.0 HDi 145	04/10		<b>PM-403</b>		4	11V	12V
RHV (DW10TD), RHV (DW10UTD)	2.0 HDi	04/02		<b>B-089</b>		4	11V	12V
RHV (DW10UTD)	2.0 HDI	08/01	04/02	<b>B-089</b>		4	11V	12V
T8A (DJ5T)	2.5 TD	03/94	04/02	<b>B-081</b>		4	11V	12V
	2.5 TD 4x4	07/96	04/02	<b>B-081</b>		4	11V	12V
T9A (DJ5)	2.5 D	03/94	04/02	<b>B-081</b>		4	11V	12V
	2.5 D 4x4	07/96	04/02	<b>B-081</b>		4	11V	12V
THX (DJ5TED)	2.5 TDI	01/97	04/02	<b>B-113</b>		4	11V	12V
	2.5 TDI 4x4	01/97	04/02	<b>B-113</b>		4	11V	12V
XUD9TE	1.9 DT 4x4	03/96	09/98	<b>B-081</b>		4	11V	12V
	2.5 DT	10/97	11/01	<b>B-081</b>		4	11V	12V
	3.0 D	09/08	12/09	<b>PM-403</b>		4	11V	12V

## EXPERT

9HH (DV6DUM), 9HM (DV6UC)	1.6 HDi 90 8V	01/07		<b>PZ-711</b>		4	5V	12V
9HU (DV6UTED4)	1.6 HDi 90 16V	01/07		<b>B-123</b>		4	11V	12V
AHW (DW10FC)	2.0 BlueHDi 180	04/16		<b>PZ-711</b>		4	5V	12V
AHY (DW10CE)	2.0 HDi 100	03/11		<b>PZ-711</b>		4	5V	12V
AHZ (DW10CD)	2.0 HDi 130	03/11		<b>PZ-711</b>		4	5V	12V
	2.0 HDi 130 4x4	03/11		<b>PZ-711</b>		4	5V	12V
D8B (XUD9TE), DHX (XUD9TE)	1.9 TD	02/96	09/00	<b>B-081</b>		4	11V	12V
D9B (XUD9AU)	1.9 D	02/96	12/98	<b>B-081</b>		4	11V	12V
DV6C, DV6FC	1.6 BlueHDi 115	04/16		<b>PZ-711</b>		4	5V	12V
DW10FE	2.0 BlueHDi 120	04/16		<b>PZ-711</b>		4	5V	12V
RHH (DW10CTED4)	2.0 HDi 165	09/09		<b>PZ-711</b>		4	5V	12V
RHK (DW10UTED4)	2.0 HDi 120	01/07		<b>B-131</b>		4	11V	12V
	2.0 HDi 120 4x4	01/07		<b>B-131</b>		4	11V	12V
RHR (DW10BTED4)	2.0 HDi 140	01/07		<b>B-131</b>		4	11V	12V
RHW (DW10ATED4)	2.0 HDi	04/03	12/06	<b>B-131</b>		4	11V	12V
	2.0 HDI	07/00	04/03	<b>B-089</b>		4	11V	12V
	2.0 HDi 16V	04/03	12/06	<b>B-131</b>		4	11V	12V
	2.0 HDi 16V	07/00	04/03	<b>B-089</b>		4	11V	12V
RHX (DW10BTED)	2.0 HDI	07/00	12/06	<b>B-131</b>		4	11V	12V
RHZ (DW10ATED)	2.0 HDI	04/03	12/06	<b>B-131</b>		4	11V	12V
	2.0 HDI	07/00	04/03	<b>B-089</b>		4	11V	12V
RHZ (DW10BTED)	2.0 HDI	07/00	12/06	<b>B-131</b>		4	11V	12V
RHZ (DW10CTED)	2.0 HDI	07/00	12/06	<b>PZ-711</b>		4	5V	12V
WJY (DW8B), WJZ (DW8)	1.9 D	06/98	12/06	<b>B-087</b>		4	11V	12V
	1.9 D 70	12/98	12/06	<b>B-087</b>		4	11V	12V



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<b>J5</b>									
CRD93	2.5 D 4x4	09/81	08/90	<b>B-081</b>		4	11V	12V	
CRD93 (U25/661)	2.5 D 4x4	10/90	03/94	<b>B-081</b>		4	11V	12V	
CRD93 (U25/661), CRD93	2.5 D	09/81	09/90	<b>B-081</b>		4	11V	12V	
	2.5 D	09/90	02/94	<b>B-081</b>		4	11V	12V	
CRD93L	2.5 DT	09/90	01/94	<b>B-081</b>		4	11V	12V	
	2.5 DT AWD	09/81	08/90	<b>B-081</b>		4	11V	12V	
CRD93L, CRD93LS (U25/673)	2.5 DT	09/81	08/90	<b>B-081</b>		4	11V	12V	
CRD93LS (U25/673)	2.5 TD	10/90	02/94	<b>B-081</b>		4	11V	12V	
	2.5 TD 4x4	10/90	03/94	<b>B-081</b>		4	11V	12V	
D9B (XUD9A)	1.9 D	10/90	03/94	<b>B-081</b>		4	11V	12V	
D9B (XUD9A), XUD9	1.9 D	09/87	08/90	<b>B-081</b>		4	11V	12V	
<b>J7</b>									
XD2P94	2.3 D	07/77	03/80	<b>B-081</b>		4	11V	12V	
<b>J9</b>									
XD2PX94	2.3 D	03/80	07/82	<b>B-081</b>		4	11V	12V	
XD3P	2.5 D	07/82	06/87	<b>B-081</b>		4	11V	12V	
XDPX90	2.1 D	03/80	06/87	<b>B-081</b>		4	11V	12V	
<b>PARTNER / RANCH</b>									
9HF (DV6DTED), 9HL (DV6C)	1.6 HDi	08/10		<b>PZ-711</b>		4	5V	12V	
9HJ (DV6DTEDM), 9HP (DV6DTED)	1.6 HDi 90	04/10		<b>PZ-711</b>		4	5V	12V	
9HK (DV6ETEDM), 9HN (DV6ETED), BHW (DV6FE)	1.6 HDi / BlueHDi 75	06/08		<b>PZ-711</b>		4	5V	12V	
9HS (DV6TED4BU), 9HV (DV6TED4B), 9HV (DV6TED4BU), 9HX (DV6ATED4), 9HX (DV6AUTED4)	1.6 HDi 16V	04/08		<b>B-123</b>		4	11V	12V	
9HS (DV6TED4BU), 9HX (DV6ATED4), 9HX (DV6AUTED4)	1.6 HDi 16V 4x4	04/12		<b>B-123</b>		4	11V	12V	
9HT (DV6BTED4), 9HT (DV6BUTED4), 9HW (DV6BTED4), 9HZ (DV6TED4)	1.6 HDi	04/08		<b>B-123</b>		4	11V	12V	
9HW (DV6BTED4)	1.6 HDi / BlueHDi 75	02/06	05/06	<b>B-106</b>		4	11V	12V	
	1.6 HDi / BlueHDi 75	05/06	12/13	<b>B-123</b>		4	11V	12V	
9HX (DV6ATED4)	1.6 HDi 90	05/06	12/15	<b>B-123</b>		4	11V	12V	
	1.6 HDi 90	10/05	05/06	<b>B-106</b>		4	11V	12V	
A9A (XUD7)	1.8 D	06/96	12/02	<b>B-081</b>		4	11V	12V	
BHY (DV6FD)	1.6 BlueHDi 100	12/14		<b>PZ-711</b>		4	5V	12V	
BHZ (DV6FC)	1.6 BlueHDi 120	12/14		<b>PZ-711</b>		4	5V	12V	
DJY (XUD9A)	1.9 D	05/96	12/02	<b>B-081</b>		4	11V	12V	
RHY (DW10TD)	2.0 HDi	02/00	07/08	<b>B-089</b>		4	11V	12V	
	2.0 HDi 4x4	04/04	08/05	<b>B-089</b>		4	11V	12V	
WJY (DW8B)	1.9 D 4x4	04/04	11/07	<b>B-087</b>		4	11V	12V	
WJY (DW8B), WJZ (DW8)	1.9 D	06/96	12/15	<b>B-087</b>		4	11V	12V	
<b>RCZ</b>									
RHH (DW10CTED4)	2.0 HDi	03/10	12/15	<b>PZ-711</b>		4	5V	12V	
<b>TRAVELLER</b>									
AHW (DW10FC)	2.0 BlueHDi 180	04/16		<b>PZ-711</b>		4	5V	12V	
DV6C, DV6FC	1.6 BlueHDi 115	04/16		<b>PZ-711</b>		4	5V	12V	

**PIAGGIO**

<b>PORTER</b>									
LDW1204	1.2 D	05/95		<b>B-081</b>		4	11V	12V	

**PORSCHE**

<b>CAYENNE</b>									
M 05.9D	955, 3.0 TDI	02/09	09/10	<b>B-132</b>		6	4.4V	12V	



ENGINE



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## PORSCHE

### CAYENNE

M 05.9E, MCN.RB, MCR.C, MCR.CA, MCR.CB, MCV.VA, MCV.VB, MCV.VC	92A, 3.0 Diesel	06/10		<b>B-132</b>		6	4.4V	12V
MCU.DB, MCU.DC	92A, 4.2 S Diesel	10/12		<b>B-132</b>		8	4.4V	12V

### MACAN

MCT.BA, MCT.BB, MCT.BC	3.0 S Diesel	02/14	09/18	<b>B-132</b>		6	4.4V	12V
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### PANAMERA

MCR.CB, MCR.CC, MCW.JA	970, 3.0 D	08/11	10/16	<b>B-132</b>		6	4.4V	12V
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## PROTON

### PERSONA 400

4 D 68	420 GLS D	05/96	04/99	<b>CP-07</b>		4	11V	12V
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## PUCH

### G-MODELL

OM 602.930	W460, 250 GD (460.337, 460.338)	10/87	12/91	<b>B-078</b>		5	11.5V	12V
OM 602.942, OM 602.947	W461, 290 GD (461.338, 461.337)	10/91	12/97	<b>B-078</b>		5	11.5V	12V
OM 602.983	W461, 290 GD Turbodiesel (461.335, 461.336)	04/97	12/01	<b>B-078</b>		5	11.5V	12V
OM 603.931	W463, 300 GD (463.327, 463.328)	06/89	08/93	<b>B-081</b>		6	11V	12V
OM 603.972	W463, 350 GD Turbo (463.320, 463.321)	08/91	08/93	<b>B-081</b>		6	11V	12V
OM 606.964	W463, G 300 Turbodiesel (463.330, 463.331)	01/96	11/00	<b>B-082</b>		6	11.5V	12V
OM 616.936, OM 616.938	W460, 240 GD (460.330, 460.331)	03/79	09/87	<b>B-081</b>		4	11V	12V
OM 617.931, OM 617.932	W460, 300 GD (460.332, 460.333)	09/79	12/91	<b>B-081</b>		5	11V	12V

## RENAULT

<b>5</b>								
	3.0 TDi	10/02		<b>CP-52</b>	7701052949		11V	
<b>9</b>								
F8M 700, F8M 720, F8M 730	1.6 D	10/82	12/88	<b>B-081</b>		4	11V	12V
	3.0 TDi	10/02		<b>CP-52</b>	7701052949		11V	
<b>11</b>								
F8M 700, F8M 720, F8M 730	1.6 D	08/83	12/88	<b>B-081</b>		4	11V	12V
<b>18</b>								
852 710, J8S 711	2.1 Diesel	05/79	07/86	<b>B-081</b>		4	11V	12V
J8S 712	2.1 TD	11/81	07/86	<b>B-081</b>		4	11V	12V
<b>19 I</b>								
F8Q 706, F8Q 742	1.9 D	01/88	12/92	<b>B-081</b>		4	11V	12V
F8Q 740	1.9 TD	09/90	04/92	<b>B-080</b>		4	11V	12V
<b>19 II</b>								
F8Q 706, F8Q 742	1.9 D	03/92	12/95	<b>B-081</b>		4	11V	12V
F8Q 740, F8Q 744	1.9 D	05/92	11/95	<b>B-080</b>		4	11V	12V
	1.9 dT	03/92	12/95	<b>B-080</b>		4	11V	12V
<b>20</b>								
852	2.1 Diesel	10/80	12/83	<b>B-081</b>		4	11V	12V
J8S 702	2.1 TD	01/82	12/83	<b>B-081</b>		4	11V	12V
<b>21</b>								
F8Q 710	1.9 D	03/86	08/94	<b>B-081</b>		4	11V	12V
J8S 600, J8S 704, J8S 740, J8S 784	2.1 D	03/86	09/95	<b>B-081</b>		4	11V	12V





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**RENAULT**

<b>RENAULT</b>									
<b>21</b>									
J8S 704	2.1 D 4x4	10/88	05/92	<b>B-081</b>		4	11V	12V	
	2.1 TD	04/86	06/89	<b>B-081</b>		4	11V	12V	
J8S 714, J8S 786, J8S 788	2.1 Turbo-D	03/86	06/94	<b>B-081</b>		4	11V	12V	
<b>25</b>									
J8S 706, J8S 736	2.1 Diesel	04/84	12/92	<b>B-081</b>		4	11V	12V	
J8S 708, J8S 738	2.1 Turbo-D FWD	04/84	12/92	<b>B-081</b>		4	11V	12V	
<b>30</b>									
J8S 702	2.1 Turbo-D	02/82	03/86	<b>B-081</b>		4	11V	12V	
<b>AVANTIME</b>									
	3.0 TDi	03/02		<b>CP-52</b>	7701052949		11V		
G9T 712	2.2 dCi	05/02	05/03	<b>B-116</b>		4	11V	12V	
<b>CAPTUR</b>									
K9K 608, K9K 609, K9K 628, K9K 629, K9K 838	1.5 dCi 90	06/13		<b>PN-900</b>		4	4.4V	12V	
<b>CLIO I</b>									
F8Q 676	1.9 D	05/96	02/98	<b>B-083</b>		4	11V	12V	
F8Q 678	1.9 RND	04/96	02/98	<b>B-081</b>		4	11V	12V	
F8Q 678, F8Q 730, F8Q 732	1.9 D	01/91	09/98	<b>B-081</b>		4	11V	12V	
<b>CLIO II</b>									
F8Q 630, F8Q 632	1.9 D	02/00	05/01	<b>B-102</b>		4	11V	12V	
F8Q 662, F8Q 630	1.9 D	09/98	05/05	<b>B-094</b>		4	11V	12V	
F9Q 780, F9Q 782	1.9 DTi	12/99	05/05	<b>B-077</b>		4	11V	12V	
K9K 700, K9K 702, K9K 704, K9K 712, K9K 714, K9K 716, K9K 718, K9K 740	1.5 dCi	06/01		<b>B-077</b>		4	11V	12V	
<b>CLIO III</b>									
K9K 714, K9K 750, K9K 752, K9K 764, K9K 766, K9K 768, K9K 772, K9K 774	1.5 dCi	05/05		<b>B-077</b>		4	11V	12V	
K9K 766, K9K 770, K9K 772	1.5 dCi	08/10		<b>PN-900</b>		4	4.4V	12V	
<b>CLIO IV</b>									
K9K 608, K9K 628	1.5 dCi 90	11/12		<b>PN-900</b>	8200682592	4	4.4V	12V	
K9K 612	1.5 dCi 75	11/12		<b>PN-900</b>	8200682592	4	4.4V	12V	
K9K 646	1.5 dCi 110	06/16		<b>PN-900</b>	8200682592	4	4.4V	12V	
K9K 830, K9K 838	1.5 dCi	11/12		<b>PN-900</b>	8200682592	4	4.4V	12V	
<b>ESPACE I</b>									
J8S 240, J8S 774, J8S 776	2.1 TD	10/84	12/90	<b>B-081</b>		4	11V	12V	
<b>ESPACE II</b>									
J8S 610, J8S 612, J8S 772, J8S 776, J8S 778	2.1 TD	01/91	10/96	<b>B-081</b>		4	11V	12V	
J8S 772	2.1 RTDT Quadra	01/91	05/92	<b>B-081</b>		4	11V	12V	
<b>ESPACE III</b>									
F9Q 722	1.9 dTi	02/99	10/02	<b>B-077</b>		4	11V	12V	
G8T 714, G8T 716, G8T 760	2.2 12V TD	11/96	10/00	<b>B-096</b>		4	11V	12V	



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## ESPACE III

G8T 716	2.2 D	11/97	01/00	<b>B-096</b>		4	11V	12V
G9T 642, G9T 710	2.2 dCi	07/00	10/02	<b>B-116</b>		4	11V	12V

## ESPACE IV

F9Q 680, F9Q 820, F9Q 826	1.9 dCi	11/02		<b>B-077</b>		4	11V	12V
G9T 645, G9T 742, G9T 743	2.2 dCi	11/02		<b>B-116</b>		4	11V	12V

## ESPACE V

R9M 409	1.6 dCi 130	06/15		<b>PN-901</b>	110650819R	4	4.5V	12V
R9M 452	1.6 dCi 160	06/15		<b>PN-901</b>	110650819R	4	4.5V	12V

## EXPRESS

F8Q 640, F8Q 724, F8Q 776	1.9 D	07/95	10/99	<b>B-081</b>		4	11V	12V
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## FLUENCE

K9K 656, K9K 657, K9K 826, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837	1.5 dCi	02/10		<b>PN-900</b>		4	4.4V	12V
R9M 402	1.6 dCi	07/14		<b>PN-901</b>	110650819R	4	4.5V	12V

## FUEGO

J8S 712	2.1 TD	08/82	10/85	<b>B-081</b>		4	11V	12V
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## Grand SCÉNIC II

F9Q 803, F9Q 804, F9Q 812, F9Q 816, F9Q 818, F9Q E 804, F9Q EE 804, F9Q J 803	1.9 dCi	04/04		<b>B-077</b>		4	11V	12V
K9K 728, K9K 732, K9K 734	1.5 dCi	04/04		<b>B-077</b>		4	11V	12V

## Grand SCÉNIC III

K9K 830, K9K 832, K9K 836, K9K 837, K9K 846	1.5 dCi	02/09		<b>PN-900</b>		4	4.4V	12V
R9M 402, R9M 404, R9M 414	1.6 dCi	04/11		<b>PN-901</b>	110650819R	4	4.5V	12V

## KADJAR

K9K 646	1.5 dCi 110	06/15		<b>PN-900</b>	8200682592	4	4.4V	12V
R9M 414	1.6 dCi 130	06/15		<b>PN-901</b>	110650819R	4	4.5V	12V
	1.6 dCi 130 4x4	06/15		<b>PN-901</b>	110650819R	4	4.5V	12V

## KANGOO

F8Q 632	1.9 D	09/99	06/03	<b>B-102</b>		4	11V	12V
	1.9 RXED	09/99	06/01	<b>B-102</b>		4	11V	12V
F8Q 662	1.9 D 55	08/97		<b>B-094</b>		4	11V	12V
F8Q 630	1.9 D 65	08/97		<b>B-094</b>		4	11V	12V
F8Q 632	1.9 D 65	08/97		<b>B-102</b>		4	11V	12V
F9Q 780	1.9 dTi	02/00	02/03	<b>B-077</b>		4	11V	12V
F9Q 782, F9Q 790	1.9 dCi	07/03		<b>B-077</b>		4	11V	12V
	1.9 dCi 4x4	10/01		<b>B-077</b>		4	11V	12V
K9K 608, K9K 628, K9K 714, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 840	1.5 dCi	06/08		<b>PN-900</b>		4	4.4V	12V
K9K 608, K9K 628, K9K 802, K9K 808	1.5 dCi 75	03/11		<b>PN-900</b>		4	4.4V	12V
	1.5 dCi 75	09/10	02/11	<b>B-077</b>		4	11V	12V



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**RENAULT****KANGOO**

K9K 608, K9K 628, K9K 808	1.5 dCi 90	03/11		<b>PN-900</b>		4	4.4V	12V
	1.5 dCi 90	06/09	02/11	<b>B-077</b>		4	11V	12V
K9K 636, K9K 646, K9K 647, K9K 804, K9K 816	1.5 dCi 110	03/11		<b>PN-900</b>		4	4.4V	12V
K9K 700, K9K 702, K9K 704, K9K 710, K9K 714, K9K 716, K9K 718	1.5 dCi	12/01		<b>B-077</b>		4	11V	12V
K9K 714, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 840	1.5 dCi	02/08	02/11	<b>B-077</b>		4	11V	12V
K9K 800, K9K 802	1.5 dCi 85	02/08	02/11	<b>B-077</b>		4	11V	12V
	1.5 dCi 85	03/11		<b>PN-900</b>		4	4.4V	12V
K9K 804, K9K 816	1.5 dCi 110	09/10	02/11	<b>B-077</b>		4	11V	12V

**LAGUNA I**

F9Q 710, F9Q 716, F9Q 717	1.9 dTi	10/97	03/01	<b>B-077</b>		4	11V	12V
F9Q 716	1.9 dTi	10/97	03/01	<b>B-096</b>		4	11V	12V
F9Q 718	1.9 dCi	09/99	03/01	<b>B-077</b>		4	11V	12V
G8T 706, G8T 752, G8T 790, G8T 794	2.2 D	11/93	03/01	<b>B-096</b>		4	11V	12V
G8T 760	2.2 dT	03/96	03/01	<b>B-096</b>		4	11V	12V

**LAGUNA II**

F9Q 650, F9Q 664, F9Q 670, F9Q 674, F9Q 718, F9Q 750, F9Q 752, F9Q 754, F9Q 758, F9Q 759	1.9 dCi	03/01	12/07	<b>B-077</b>		4	11V	12V
G9T 600, G9T 605, G9T 706, G9T 707	2.2 dCi	04/04	12/07	<b>B-077</b>		4	11V	12V
G9T 700, G9T 702	2.2 dCi	10/01	08/06	<b>B-116</b>		4	11V	12V

**LAGUNA III**

K9K 780, K9K 782	1.5 dCi	10/07	12/15	<b>B-077</b>		4	11V	12V
K9K 780, K9K 782, K9K 846	1.5 dCi	11/10	12/15	<b>PN-900</b>		4	4.4V	12V

**LATITUDE**

K9K 782	1.5 dCi	07/10		<b>PN-900</b>		4	4.4V	12V
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**LOGAN I**

K9K 700, K9K 790, K9K 792, K9K 794, K9K 796	1.5 dCi	04/07		<b>B-077</b>		4	11V	12V
K9K 796	1.5 dCi	11/12	06/15	<b>PN-900</b>		4	4.4V	12V

**MASTER I**

8140.27.2500, 8140.27.2510, S9U 714, S9U 740	2.5 TD 35	08/89	07/98	<b>B-072</b>		4	11.5V	12V
8140.61.2300, S8U 731	2.4 D 28-35	08/80	08/89	<b>B-081</b>		4	11V	12V
8140.61.2300, S8U 731, S8U 742	2.5 D 28-35	09/80	07/98	<b>B-081</b>		4	11V	12V



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## MASTER I

J8S 330	2.1 D	11/89	04/95	<b>B-081</b>		4	11V	12V
	2.1 D 28-35	08/80	07/98	<b>B-081</b>		4	11V	12V
S8U 731	2.4 D	09/86	10/89	<b>B-081</b>		4	11V	12V
S9U 702	2.5 DT	11/89	10/93	<b>B-081</b>		4	11V	12V
S9U 740	2.5 DT	08/93	02/98	<b>B-072</b>		4	11.5V	12V
Sofim-8140.27.2580	2.5 TD 28-35	08/89	07/98	<b>B-081</b>		4	11V	12V

## MASTER II

F9Q 770	1.9 dTi	09/00		<b>B-077</b>		4	11V	12V
F9Q 772, F9Q 774	1.9 dCi 80	11/01		<b>B-077</b>		4	11V	12V
G9T 720, G9T 722, G9T 750	2.2 dCi 90	09/00		<b>B-116</b>		4	11V	12V
G9U 632, G9U 650, G9U 754	2.5 dCi	08/06		<b>B-116</b>		4	11V	12V
G9U 720, G9U 724, G9U 750, G9U 754	2.5 dCi 120	10/01	09/03	<b>B-116</b>		4	11V	12V
G9U 754	2.5 dCi 100	10/03		<b>B-116</b>		4	11V	12V
S8U 770, S8U 772	2.5 D	07/98	01/01	<b>B-097</b>		4	11V	12V
S9W 702	2.8 dTi	07/98	10/01	<b>B-097</b>		4	11V	12V
ZD3 200, ZD3 202	3.0 dCi 140	10/03		<b>CP-73</b>		4	11V	12V
ZD3 600	3.0 dCi 120	06/05		<b>CP-73</b>		4	11V	12V
ZD3 A 604	3.0 dCi 160	06/05		<b>CP-73</b>		4	11V	12V

## MASTER III

M9T.8.70	2.3 dCi 125 FWD	05/14		<b>PN-901</b>		4	4.5V	12V
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## MEGANE I










F8Q 620, F8Q 622, F8Q 624	1.9 D	09/96	08/03	<b>B-083</b>		4	11V	12V
	1.9 D Eco	01/96	08/03	<b>B-083</b>		4	11V	12V
F8Q 622, F8Q 790	1.9 D	04/99	08/03	<b>B-102</b>		4	11V	12V
F8Q 784	1.9 D	04/96	02/01	<b>B-080</b>		4	11V	12V
	1.9 TDI	09/96	08/03	<b>B-080</b>		4	11V	12V
F8Q 784, F8Q 786	1.9 dT	01/96	08/03	<b>B-080</b>		4	11V	12V
F9Q 730, F9Q 734	1.9 dTi	03/97	02/01	<b>B-096</b>		4	11V	12V
F9Q 730, F9Q 731, F9Q 736, F9Q 731, F9Q 734, F9Q 736, F9Q 744	1.9 dTi	03/97	08/03	<b>B-077</b>		4	11V	12V
F9Q 732, F9Q 733, F9Q 738	1.9 dCi	03/99	08/03	<b>B-077</b>		4	11V	12V
F9Q 734	1.9 dTi	03/97	02/01	<b>B-078</b>		4	11.5V	12V

## MEGANE II

F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 816, F9Q 818	1.9 dCi	11/02		<b>B-077</b>		4	11V	12V
K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 734	1.5 dCi	09/02	12/10	<b>B-077</b>		4	11V	12V

## MEGANE III

K9K 636, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 846	1.5 dCi	11/08		<b>PN-900</b>		4	4.4V	12V
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 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>RENAULT</b>																	
<b>MEGANE III</b>																	
R9M 402, R9M 404, R9M 414	1.6 dCi	04/11		<b>PN-901</b>	110650819R	4	4.5V	12V									
<b>MEGANE IV</b>																	
R9M 409	1.6 dCi 130	11/15		<b>PN-901</b>	110650819R	4	4.5V	12V									
<b>MEGANE CC</b>																	
K9K 837	1.5 dCi	06/10		<b>PN-900</b>		4	4.4V	12V									
R9M 402	1.6 dCi	04/11		<b>PN-901</b>	110650819R	4	4.5V	12V									
<b>MEGANE Scénic</b>																	
F8Q 620, 624	1.9 D	03/97	09/99	<b>B-083</b>		4	11V	12V									
F8Q 622, 790	1.9 D	03/97	09/99	<b>B-102</b>		4	11V	12V									
F8Q 784, F8Q 786	1.9 dT	01/97	09/99	<b>B-080</b>		4	11V	12V									
F8Q 788	1.9 D	03/97	09/99	<b>B-094</b>		4	11V	12V									
F9Q 730, F9Q 734	1.9 dTi	04/97	09/99	<b>B-096</b>		4	11V	12V									
<b>MODUS</b>																	
K9K 750, K9K 752, K9K 760, K9K 764, K9K 766, K9K 768, K9K 772	1.5 dCi	09/04		<b>B-077</b>		4	11V	12V									
K9K 750, K9K 770	1.5 dCi 90	10/10		<b>PN-900</b>		4	4.4V	12V									
K9K 770	1.5 dCi 75	10/10		<b>PN-900</b>		4	4.4V	12V									
K9K 772	1.5 dCi	11/10		<b>PN-900</b>		4	4.4V	12V									
<b>RAPID</b>																	
F8M 720, F8M 730, F8M 736	1.6 D	03/86	08/98	<b>B-081</b>		4	11V	12V									
F8Q 640, F8Q 646, F8Q 722, F8Q 724, F8Q 774, F8Q 776	1.9 D	09/91	03/98	<b>B-081</b>		4	11V	12V									
<b>SAFRANE I</b>																	
J8S 760	2.1 dT	11/93	07/96	<b>B-081</b>		4	11V	12V									
S8U 762, S8U 763	2.5 dT	12/92	07/96	<b>B-081</b>		4	11V	12V									
<b>SAFRANE II</b>																	
G8T 740	2.2 dT	07/96	12/00	<b>B-096</b>		4	11V	12V									
<b>SCÉNIC I</b>																	
F8Q 788, F8Q 790	1.9 D	09/99	03/01	<b>B-102</b>		4	11V	12V									
F9Q 731, F9Q 736, F9Q 744	1.9 dTi	09/99	08/03	<b>B-077</b>		4	11V	12V									
F9Q 732, F9Q 733	1.9 dCi	09/99	08/03	<b>B-077</b>		4	11V	12V									
F9Q 732, F9Q 740, F9Q 748, F9Q 796	1.9 dCi RX4	11/00	08/03	<b>B-077</b>		4	11V	12V									
F9Q 734	1.9 dTi	09/99	08/03	<b>B-096</b>		4	11V	12V									
<b>SCÉNIC II</b>																	
F9Q 804, F9Q 812, F9Q 816, F9Q 818, F9Q J 803	1.9 dCi	06/03		<b>B-077</b>		4	11V	12V									
F9Q 812, F9Q J 803	1.9 D	06/06		<b>B-077</b>		4	11V	12V									
K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 734	1.5 dCi	06/03		<b>B-077</b>		4	11V	12V									



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

# RENAULT

## SCÉNIC III

K9K 830, K9K 832, K9K 836, K9K 837, K9K 846	1.5 dCi	02/09		<b>PN-900</b>		4	4.4V	12V
R9M 402, R9M 404, R9M 414	1.6 dCi	04/11		<b>PN-901</b>	11065-0819R	4	4.5V	12V

## SUPER 5

F8M 720, F8M 730	1.6 D	10/84	12/96	<b>B-081</b>		4	11V	12V
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## TALISMAN

R9M 409	1.6 dCi 130	11/15		<b>PN-901</b>	11065-0819R	4	4.5V	12V
	1.6 dCi 130	11/15		<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	3	4.5V	12V
R9M 452, R9M 453	1.6 dCi 160	06/15		<b>PN-901</b>	11065-0819R	4	4.5V	12V
	1.6 dCi 160	06/15		<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	3	4.5V	12V

## THALIA I

F8Q 630	1.9 D	02/98	05/01	<b>B-094</b>		4	11V	12V
K9K 700, K9K 706, K9K 714, K9K 740	1.5 dCi	06/01		<b>B-077</b>		4	11V	12V

## THALIA II

K9K 612, K9K 834	1.5 dCi	01/09		<b>PN-900</b>		4	4.4V	12V
K9K 700, K9K 718, K9K 740	1.5 dCi	09/08		<b>B-077</b>		4	11V	12V

## THALIA III

K9K 612	1.5 dCi	12/13		<b>PN-900</b>		4	4.4V	12V
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## TRAFIC

852,750	2.1 D 4x4	05/85	04/89	<b>B-081</b>		4	11V	12V
852 720, 852 750, J8S 620, J8S 758	2.1 D	05/89	04/98	<b>B-081</b>		4	11V	12V
852 720, 852 750, J8S 750	2.1 D	03/80	04/89	<b>B-081</b>		4	11V	12V
852 720, J8S 620, J8S 758	2.1 D RWD	05/89	10/97	<b>B-081</b>		4	11V	12V
F8Q 606	1.9 D	06/97	03/01	<b>B-094</b>		4	11V	12V
S8U 720, S8U 758	2.5 D	05/89	03/01	<b>B-072</b>		4	11.5V	12V
S8U 720, S8U 722	2.5 D	03/80	04/89	<b>B-072</b>		4	11.5V	12V
S8U 750, S8U 752, Sofim- 8140.67.2500	2.5 D 4x4	05/89	03/01	<b>B-081</b>		4	11V	12V
S8U 750, Sofim- 8140.67.2580	2.5 D	03/89	03/01	<b>B-081</b>		4	11V	12V
S8U 750, S8U 752	2.5 D 4x4	08/89	03/01	<b>B-072</b>		4	11.5V	12V
Sofim- 8140.61.240	2.5 D	03/80	04/89	<b>B-081</b>		4	11V	12V

## TRAFIC II

F9Q 760	1.9 dCi 100	03/01		<b>B-077</b>		4	11V	12V
F9Q 760, F9Q 762	1.9 dCi	03/01		<b>B-077</b>		4	11V	12V
	1.9 dCi 80	03/01		<b>B-077</b>		4	11V	12V
G9U 630	2.5 dCi	08/07		<b>B-116</b>		4	11V	12V
	2.5 dCi 115	02/08		<b>B-116</b>		4	11V	12V
	2.5 dCi 145	08/06		<b>B-116</b>		4	11V	12V
G9U 730	2.5 dCi 135	03/01		<b>B-116</b>		4	11V	12V
	2.5 DTi	03/03	07/03	<b>B-116</b>		4	11V	12V

## TRAFIC III

R9M 408	1.6 dCi 115	05/14		<b>PN-901</b>	11065-0819R	4	4.5V	12V
	1.6 dCi 90	05/14		<b>PN-901</b>	11065-0819R	4	4.5V	12V

ENGINE		MODEL		M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>RENAULT</b>										
<b>TRAFIC III</b>										
R9M 413	1.6 dCi 95		07/15			<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	3	4.5V	12V
	1.6 dCi 95		07/15			<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	4	4.5V	12V
R9M 450	1.6 dCi 120		05/14			<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	3	4.5V	12V
	1.6 dCi 120		05/14			<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	4	4.5V	12V
	1.6 dCi 140		05/14			<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	3	4.5V	12V
	1.6 dCi 140		05/14			<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	4	4.5V	12V
R9M 452	1.6 dCi 125		07/15			<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	3	4.5V	12V
	1.6 dCi 125		07/15			<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	4	4.5V	12V
	1.6 dCi 145		07/15			<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	3	4.5V	12V
	1.6 dCi 145		07/15			<b>PN-901</b>	11065-0819R (CYLINDER NO. 2-3-4)	4	4.5V	12V
<b>TWINGO II</b>										
K9K 718, K9K 740	1.5 dCi		03/07			<b>B-077</b>		4	11V	12V
K9K 820	1.5 dCi 75		10/10			<b>PN-900</b>		4	4.4V	12V
	1.5 dCi 90		10/10			<b>PN-900</b>		4	4.4V	12V
<b>VEL SATIS</b>										
	3.0 TDi		03/02			<b>CP-52</b>	7701052949		11V	
G9T 600, G9T 606, G9T 607, G9T 700, G9T 702, G9T 703	2.2 dCi		06/02			<b>B-116</b>		4	11V	12V

## RENAULT TRUCKS

<b>MASCOTT</b>										
8140.43.B.3586, 8140.43.B.3588, 8140.43.C.2586	110		01/99	06/04		<b>B-097</b>		4	11V	12V
	110.35		01/99	06/04		<b>B-097</b>		4	11V	12V
	110.5		01/99	06/04		<b>B-097</b>		4	11V	12V
	110.55		01/99	06/04		<b>B-097</b>		4	11V	12V
8140.43.S.2585, 8140.43.S.3585	130		01/99	06/04		<b>B-097</b>		4	11V	12V
	130.35		01/99	06/04		<b>B-081</b>		4	11V	12V
	130.55		01/99	06/04		<b>B-097</b>		4	11V	12V
8140.43K	140		01/01	06/04		<b>B-097</b>		4	11V	12V
	140.35		01/01	06/04		<b>B-097</b>		4	11V	12V
	140.55		01/01	06/04		<b>B-097</b>		4	11V	12V
8140.43N.3585	150.35 (A00300161)		10/01	06/04		<b>B-097</b>		4	11V	12V
	150.35 (A00300164)		10/01	06/04		<b>B-097</b>		4	11V	12V
	150.35 (A02300161)		10/01	06/04		<b>B-097</b>		4	11V	12V
	150.55 (A02300164)		10/01	06/04		<b>B-097</b>		4	11V	12V
	150.65 (A00300166)		10/01	06/04		<b>B-097</b>		4	11V	12V
8140.63.2585	90		01/99	12/01		<b>B-097</b>		4	11V	12V
	90.35		01/99	12/01		<b>B-097</b>		4	11V	12V
DXi 3, ZD3 A 600	120.35 (A00100003, A01100003)		05/04	12/10		<b>CP-73</b>		4	11V	12V
	120.35 (A02100003)		05/04	10/10		<b>CP-73</b>		4	11V	12V
DXi 3, ZD3 A 604	160.35 (A00100013, A01100013)		05/04	12/10		<b>CP-73</b>		4	11V	12V
	160.35 (A02100013)		05/04	10/10		<b>CP-73</b>		4	11V	12V

## ROVER

<b>25</b>										
20 T2N	2.0 iDT		10/99	05/05		<b>B-096</b>		4	11V	12V
<b>45</b>										
20 T2N	2.0 iDT		02/00	05/05		<b>B-096</b>		4	11V	12V





ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## ROVER










75								
204D2	2.0 CDTi	02/03	05/05	<b>B-104</b>		4	11V	12V
M 47 R	2.0 CDT	02/99	05/05	<b>B-104</b>		4	11V	12V
100 / METRO								
TUD 3	114 D	10/92	12/94	<b>B-072</b>		4	11.5V	12V
TUD 5	115 D	12/94	12/98	<b>B-087</b>		4	11V	12V
200								
20 T2N	RF, 220 SDi	11/95	03/00	<b>B-096</b>		4	11V	12V
20 T2R	RF, 220 D/SD	11/95	03/00	<b>B-096</b>		4	11V	12V
XUD 7TE	XW, 218 TD	09/91	10/95	<b>B-081</b>		4	11V	12V
XUD9	XW, 218 D	09/91	10/95	<b>B-081</b>		4	11V	12V
400								
20 T2N	420 Di	05/95	03/00	<b>B-096</b>		4	11V	12V
20 T2R	420 D	11/95	03/00	<b>B-096</b>		4	11V	12V
XUD 7TE	1.8 TD	09/93	11/98	<b>B-081</b>		4	11V	12V
	418 TD	09/91	04/95	<b>B-081</b>		4	11V	12V
XUD9	418 D	09/91	04/95	<b>B-081</b>		4	11V	12V
600								
20 T2N	620 Sdi	05/94	06/99	<b>B-096</b>		4	11V	12V
800								
425 SL1RR, 492 4 SHIRG	825 D/SD	01/90	11/91	<b>B-049</b>		4	11V	12V
	825 D/SD	05/95	02/99	<b>B-086</b>		4	11V	12V
	825 D/SD	12/91	04/95	<b>B-081</b>		4	11V	12V
	825 SD	05/95	02/99	<b>B-086</b>		4	11V	12V
	825 SD	09/93	04/95	<b>B-081</b>		4	11V	12V
2000-3500								
HR 492 HT	2400 TD	05/82	10/86	<b>B-049</b>		4	11V	12V
MAESTRO								
BB	2.0 TD	09/90	01/95	<b>B-081</b>		4	11V	12V
	2.0 D	09/90	10/92	<b>B-081</b>		4	11V	12V
MONTEGO								
BB	2.0 D Turbo	10/88	10/95	<b>B-081</b>		4	11V	12V
	2.0 Turbo-D	01/93	12/93	<b>B-081</b>		4	11V	12V
STREETWISE								
20 T2N	2.0 TD	08/03	05/05	<b>B-096</b>		4	11V	12V

## SAAB

9-3								
A 19 DTR, Z 19 DTR	1.9 TTiD	12/07	02/15	<b>B-135</b>		4	4.4V	12V
D223L	2.2 TiD	09/02	02/15	<b>B-107</b>		4	11V	12V
	2.2 TiD	11/00	09/02	<b>B-107</b>		4	11V	12V
D223L, X 22 DTH	2.2 TiD	02/98	11/00	<b>B-098</b>		4	11V	12V
Z 19 DT	1.9 TiD	09/04	02/15	<b>B-109</b>		4	11V	12V
Z 19 DTH	1.9 TiD	09/04	02/15	<b>B-125</b>		4	11V	12V
9-3X								
A 19 DTR, Z 19 DTR	1.9 TTiD AWD	02/09	12/12	<b>B-135</b>		4	4.4V	12V
9-5								
A 20 DTH	2.0 TiD	05/10	01/12	<b>B-135</b>		4	4.4V	12V
A 20 DTR	2.0 TTiD	05/10	01/12	<b>B-135</b>		4	4.4V	12V
	2.0 TTiD XWD	05/10	01/12	<b>B-135</b>		4	4.4V	12V
D223L	2.2 TiD	03/02	12/09	<b>B-098</b>		4	11V	12V
Z 19 DTH	1.9 TiD	01/06	12/09	<b>B-125</b>		4	11V	12V
Z 19 DTR	1.9 TiD	01/07	12/09	<b>B-135</b>		4	4.4V	12V

## SANTANA

PS10 / ANIBAL								
8140.43C, 8140.43P	2.8 TD	12/02		<b>B-097</b>		4	11V	12V
8140.43P	2.8 D 4x4	03/03		<b>B-097</b>		4	11V	12V
	2.8 TD AWD	09/04	12/08	<b>B-097</b>		4	11V	12V

 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>SEAT</b>																	
<b>132</b>																	
OM 615.912	2.2 D	05/79	12/82	<b>B-081</b>				4	11V	12V							
	2.0 D	05/73	12/80	<b>B-081</b>				4	11V	12V							
<b>ALHAMBRA</b>																	
1Z, AFN, AHU, AVG	7V, 1.9 TDI	04/96	03/10	<b>B-077</b>				4	11V	12V							
	7V, 1.9 TDI	04/96	03/10	<b>B-092</b>				3	11V	12V							
ANU, AUY, BVK	7V, 1.9 TDI	04/96	10/01	<b>B-077</b>				4	11V	12V							
	7V, 1.9 TDI	10/01	03/10	<b>B-086</b>				4	11V	12V							
ASZ, BTB	7V, 1.9 TDI	11/02	11/08	<b>B-086</b>				4	11V	12V							
AUY, BVK	7V, 1.9 TDI 4motion	06/00	10/01	<b>B-077</b>				4	11V	12V							
	7V, 1.9 TDI 4motion	10/01	03/10	<b>B-086</b>				4	11V	12V							
CFFA, CFFB, CFFE, CFGB	710, 2.0 TDI	06/10		<b>B-132</b>				4	4.4V	12V							
CFFB	710, 2.0 TDI 4Drive	05/11		<b>B-132</b>				4	4.4V	12V							
CFGC, CUVA, CUVC, CUWA, DFLA, DFMA, DLTA, DLUB	710, 2.0 TDI	05/11		<b>B-132</b>				3	4.4V	12V							
	710, 2.0 TDI 4Drive	05/15		<b>B-132</b>				3	4.4V	12V							
<b>ALTEA</b>																	
AZV, BKD	XL, 2.0 TDI	03/04		<b>PM-405</b>				4	4.4V	12V							
BMN	XL, 2.0 TDI	03/06		<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)			4	7V	12V							
	XL, 2.0 TDI 4x4	06/07		<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)			4	7V	12V							
CAYB, CAYC	XL, 1.6 TDI	10/09		<b>B-132</b>				4	4.4V	12V							
CEGA, CFHC	XL, 2.0 TDI	03/04		<b>B-132</b>				4	4.4V	12V							
CEGA, CFHC, CFJA	XL, 2.0 TDI 4x4	06/07		<b>B-132</b>				4	4.4V	12V							
<b>AROSA</b>																	
AKU	6H, 1.7 SDI	08/97	06/04	<b>B-077</b>				4	11V	12V							
AMF	6H, 1.4 TDI	01/00	11/01	<b>B-077</b>				3	11V	12V							
	6H, 1.4 TDI	11/01	06/04	<b>B-086</b>				3	11V	12V							
<b>ATECA</b>																	
DDYA, DGTE	KH7, 1.6 TDI	04/16		<b>B-132</b>				3	4.4V	12V							
	KH7, 1.6 TDI	04/16		<b>B-132</b>				4	4.4V	12V							
DFFA	KH7, 2.0 TDI	04/16		<b>B-132</b>				3	4.4V	12V							
	KH7, 2.0 TDI	04/16		<b>B-132</b>				4	4.4V	12V							
DFFA, DFHA	KH7, 2.0 TDI 4Drive	04/16		<b>B-132</b>				3	4.4V	12V							
	KH7, 2.0 TDI 4Drive	04/16		<b>B-132</b>				4	4.4V	12V							
<b>CORDOBA</b>																	
1Y	6K1, 1.9 D	02/93	08/96	<b>B-080</b>				4	11V	12V							
1Z, AFN, AGR, AHU, ALH, ASK, ASV	6K1, 1.9 TDI	08/96	12/02	<b>B-077</b>				4	11V	12V							
	6K1, 1.9 TDI	08/96	12/02	<b>B-092</b>				3	11V	12V							
AAZ	6K1, 1.9 TD	02/93	08/96	<b>B-080</b>				4	11V	12V							
AEY	6K1, 1.9 SDI	08/96	06/99	<b>B-077</b>				4	11V	12V							
	6K1, 1.9 SDI	08/96	06/99	<b>B-080</b>				3	11V	12V							
AGP, AQM	6K2, 1.9 SDI	06/99	12/02	<b>B-077</b>				4	11V	12V							
	6K2, 1.9 SDI	06/99	12/02	<b>B-092</b>				3	11V	12V							
AMF, BNM, BNV	6L, 1.4 TDI	10/02	11/09	<b>B-086</b>				3	11V	12V							
ASY	6L, 1.9 SDI	09/02	11/09	<b>B-077</b>				4	11V	12V							
ASZ, ATD, AXR, BLT	6L, 1.9 TDI	09/02	11/09	<b>B-086</b>				4	11V	12V							
ATD	6L, 1.9 TDI	09/02	11/09	<b>B-092</b>				3	11V	12V							
<b>EXEO</b>																	
CAGA, CAGC, CAHA, CGLB, CJCA, CJCC	3R, 2.0 TDI	12/08		<b>B-132</b>				4	4.4V	12V							
<b>IBIZA I</b>																	
022 A.5000	1.7 D	06/84	05/93	<b>B-081</b>				4	11V	12V							
<b>IBIZA II</b>																	
1Y	6K1, 1.9 D	04/93	08/96	<b>B-080</b>				4	11V	12V							
1Z, AFN, AGR, AHU, ALH, ASK, ASV	6K1, 1.9 TDI	08/96	02/02	<b>B-077</b>				4	11V	12V							
	6K1, 1.9 TDI	08/96	02/02	<b>B-092</b>				3	11V	12V							
AAZ	6K1, 1.9 TD	03/93	08/96	<b>B-080</b>				4	11V	12V							



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## SEAT

## IBIZA II

AEY	6K1, 1.9 SDI	08/96	08/99	<b>B-077</b>		4	11V	12V
	6K1, 1.9 SDI	08/96	08/99	<b>B-080</b>		3	11V	12V
AGP, AQM	6K2, 1.9 SDI	08/99	02/02	<b>B-077</b>		4	11V	12V
	6K2, 1.9 SDI	08/99	02/02	<b>B-092</b>		3	11V	12V
AKU	6K1, 1.7 SDI	07/97	08/99	<b>B-077</b>		4	11V	12V

## IBIZA III

AMF	6L, 1.4 TDI	05/02	12/05	<b>B-077</b>		3	11V	12V
ASY	6L, 1.9 SDI	02/02	12/05	<b>B-077</b>		4	11V	12V
ASZ, ATD, AXR, BLT	6L, 1.9 TDI	02/02	11/09	<b>B-086</b>		4	11V	12V
ATD	6L, 1.9 TDI	02/02	11/09	<b>B-092</b>		3	11V	12V
BNM, BNV	6L, 1.4 TDI	05/05	11/09	<b>B-086</b>		3	11V	12V
BPX, BUK	6L, 1.9 TDI Cupra R	03/04	02/08	<b>B-086</b>		4	11V	12V

## IBIZA IV

CAYB, CAYC, CLNA	6J, 6P, 1.6 TDI	05/09		<b>B-132</b>		4	4.4V	12V
CFHD	6J, 6P, 2.0 TDI	01/10		<b>B-132</b>		4	4.4V	12V
CFWA	6J, 6P, 1.2 TDI	04/10		<b>B-132</b>		3	4.4V	12V
CUSA, CUSB, CUTA, CYZA	6J, 6P, 1.4 TDI	05/15		<b>B-132</b>		2	4.4V	12V

## INCA

1Y	6K9, 1.9 D	11/95	06/03	<b>B-080</b>		4	11V	12V
AEY	6K9, 1.9 SDI	11/95	06/03	<b>B-080</b>		3	11V	12V
AEY, AYQ	6K9, 1.9 SDI	11/95	06/03	<b>B-077</b>		4	11V	12V
AHB	6K9, 1.7 D	09/96	06/03	<b>B-077</b>		4	11V	12V
	6K9, 1.7 D	09/96	06/03	<b>B-080</b>		3	11V	12V
ALH	6K9, 1.9 TDI	09/96	06/03	<b>B-077</b>		4	11V	12V
	6K9, 1.9 TDI	09/96	06/03	<b>B-092</b>		3	11V	12V

## LEON

AGR, AHF, ALH, ARL, ASV	1M, 1.9 TDI	11/99	06/06	<b>B-092</b>		3	11V	12V
AGR, AHF, ALH, ASV	1M, 1.9 TDI	11/99	06/06	<b>B-077</b>		4	11V	12V
AQM	1M, 1.9 SDI	11/99	06/06	<b>B-077</b>		4	11V	12V
	1M, 1.9 SDI	11/99	06/06	<b>B-092</b>		3	11V	12V
ARL	1M, 1.9 TDI	09/00	12/01	<b>B-077</b>		4	11V	12V
	1M, 1.9 TDI	12/01	06/06	<b>B-086</b>		4	11V	12V
	1M, 1.9 TDI Syncro	05/02	06/06	<b>B-086</b>		4	11V	12V
	1M, 1.9 TDI Syncro	05/02	06/06	<b>B-092</b>		3	11V	12V
ASZ, AXR	1M, 1.9 TDI	05/03	06/06	<b>B-086</b>		4	11V	12V
AZV, BKD	1P, 2.0 TDI	07/05	12/12	<b>PM-405</b>		4	4.4V	12V
BMN	1P, 2.0 TDI	05/06	12/12	<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)	4	7V	12V
CAYB, CAYC	1P, 1.6 TDI	02/10	12/12	<b>B-132</b>		4	4.4V	12V
CEGA, CFHC, CFJA, CLCB	1P, 2.0 TDI	07/05	12/12	<b>B-132</b>		4	4.4V	12V
CKFC, CRBC, CRLB, CRMB, CUNA, CUPA, DFFA, DJGA	5F, 2.0 TDI	09/12		<b>B-132</b>		3	4.4V	12V
CLHA, CLHB, CRKB, CXXA, CXXB, DBKA, DDYB	5F, 1.6 TDI	11/12		<b>B-132</b>		3	4.4V	12V
CLHA, CXXB	5F, 1.6 TDI 4Drive	04/14		<b>B-132</b>		3	4.4V	12V
CRBC, CRLB, CRMB, CUNA	5F, 2.0 TDI 4Drive	04/14		<b>B-132</b>		3	4.4V	12V
CRVA, CRVC	5F, 2.0 TDI	02/13		<b>B-132</b>		3	4.4V	12V
	5F, 2.0 TDI	02/13		<b>B-132</b>		4	4.4V	12V

## MALAGA

022 A.5000	1.7 D	05/85	12/93	<b>B-081</b>		4	11V	12V
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## RITMO

022 A.5000	1.7 D	10/79	09/83	<b>B-081</b>		4	11V	12V
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## RONDA

022 A.5000	1.7 Diesel	06/82	12/86	<b>B-081</b>		4	11V	12V
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## TERRA

1 W	1.4 D	10/90	12/95	<b>B-080</b>		4	11V	12V
MN	1.3 D	03/90	12/94	<b>B-080</b>		4	11V	12V

ENGINE		MODEL		M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>SEAT</b>										
<b>TOLEDO I</b>										
1Y	1L, 1.9 D	05/91	03/99	<b>B-080</b>				4	11V	12V
	1L, 1.9 SDI	12/95	03/99	<b>B-080</b>				4	11V	12V
1Z, AFN, AHU	1L, 1.9 TDI	08/95	03/99	<b>B-077</b>				4	11V	12V
	1L, 1.9 TDI	08/95	03/99	<b>B-092</b>				3	11V	12V
AAZ	1L, 1.9 TD	05/91	03/99	<b>B-080</b>				4	11V	12V
<b>TOLEDO II</b>										
AGR, AHF, ALH, ARL, ASV	1M, 1.9 TDI	10/98	07/04	<b>B-092</b>				3	11V	12V
AGR, AHF, ALH, ASV	1M, 1.9 TDI	10/98	07/04	<b>B-077</b>				4	11V	12V
ARL	1M, 1.9 TDI	10/00	12/01	<b>B-077</b>				4	11V	12V
	1M, 1.9 TDI	12/01	07/04	<b>B-086</b>				4	11V	12V
ASZ	1M, 1.9 TDI	05/03	05/06	<b>B-086</b>				4	11V	12V
<b>TOLEDO III</b>										
AZV, BKD	5P, 2.0 TDI	04/04	05/09	<b>PM-405</b>				4	4.4V	12V
BMN	5P, 2.0 TDI	01/06	05/09	<b>PM-406</b>		N 105 798 03, N 105 798 05 (CERAMIC)		4	7V	12V
CEGA	5P, 2.0 TDI	01/06	05/09	<b>B-132</b>				4	4.4V	12V
<b>TOLEDO IV</b>										
CAYB, CAYC, CLNA	KG3, 1.6 TDI	07/12	06/15	<b>B-132</b>				4	4.4V	12V
CUSB	KG3, 1.4 TDI	05/15	04/19	<b>B-132</b>				2	4.4V	12V
CXMA	KG3, 1.6 TDI	05/15	04/19	<b>B-132</b>				3	4.4V	12V

<b>SKODA</b>										
<b>FABIA I</b>										
AMF, ANY, BNM, BNV	6Y, 1.4 TDI	04/03	03/08	<b>B-086</b>				3	11V	12V
ASY	6Y, 1.9 SDI	11/99	03/08	<b>B-077</b>				4	11V	12V
ASZ, BLT	6Y, 1.9 TDI RS	06/03	03/08	<b>B-086</b>				4	11V	12V
ATD	6Y, 1.9 TDI	01/00	03/08	<b>B-092</b>				3	11V	12V
ATD, AXR	6Y, 1.9 TDI	01/00	12/01	<b>B-077</b>				4	11V	12V
	6Y, 1.9 TDI	01/02	03/08	<b>B-086</b>				4	11V	12V
<b>FABIA II</b>										
BNM, BNV	1.4 TDI	01/07	03/10	<b>B-086</b>				3	11V	12V
BSW	1.9 TDI	04/07	03/10	<b>B-086</b>				4	11V	12V
CAYA, CAYB, CAYC	1.6 TDI	03/10	12/14	<b>B-132</b>				4	4.4V	12V
CFWA	1.2 TDI	05/10	12/14	<b>B-132</b>				3	4.4V	12V
<b>FABIA III</b>										
CUSA, CUSB, CUTA	NJ, 1.4 TDI	08/14		<b>B-132</b>				2	4.4V	12V
<b>FELICIA Fun</b>										
AEF	6U, 1.9 D	06/97	04/02	<b>B-080</b>				4	11V	12V
<b>FELICIA I</b>										
AEF	6U, 1.9 D	10/95	03/98	<b>B-080</b>				4	11V	12V
<b>FELICIA II</b>										
AEF	6U, 1.9 D	01/98	06/01	<b>B-080</b>				4	11V	12V
<b>OCTAVIA I</b>										
AGP, AQM	1U, 1.9 SDI	06/97	12/03	<b>B-077</b>				4	11V	12V
	1U, 1.9 SDI	06/97	12/03	<b>B-092</b>				3	11V	12V
AGR	1U, 1.9 TDI 4x4	11/99	02/06	<b>B-077</b>				4	11V	12V
AGR, AHF, ALH, ASV	1U, 1.9 TDI	09/96	03/10	<b>B-077</b>				4	11V	12V
	1U, 1.9 TDI	09/96	03/10	<b>B-092</b>				3	11V	12V
AGR, ATD	1U, 1.9 TDI 4x4	11/99	02/06	<b>B-092</b>				3	11V	12V
ASZ, AXR	1U, 1.9 TDI	12/01	12/10	<b>B-086</b>				4	11V	12V
ATD	1U, 1.9 TDI 4x4	09/00	11/01	<b>B-077</b>				4	11V	12V
	1U, 1.9 TDI 4x4	12/01	01/06	<b>B-086</b>				4	11V	12V
AXR	1U, 1.9 TDI	08/00	11/01	<b>B-077</b>				4	11V	12V
<b>OCTAVIA II</b>										
AZV, BKD	1Z, 2.0 TDI	02/04	05/13	<b>PM-405</b>				4	4.4V	12V
BMN	1Z, 2.0 TDI RS	04/06	02/13	<b>PM-406</b>		N 105 798 03, N 105 798 05 (CERAMIC)		4	7V	12V
CAYC	1Z, 1.6 TDI	06/09	04/13	<b>B-132</b>				4	4.4V	12V
	1Z, 1.6 TDI 4x4	06/09	02/13	<b>B-132</b>				4	4.4V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## SKODA

### OCTAVIA II

CEGA	1Z, 2.0 TDI RS	04/06	02/13	<b>B-132</b>		4	4.4V	12V
CFHC, CFHF	1Z, 2.0 TDI 4x4	05/10	02/13	<b>B-132</b>		4	4.4V	12V
CFHC, CFHF, CLCA, CLCB	1Z, 2.0 TDI	02/04	06/13	<b>B-132</b>		4	4.4V	12V

### OCTAVIA III

CKFB, CRVC	5E, 2.0 TDI	11/12		<b>B-132</b>		3	4.4V	12V
	5E, 2.0 TDI	11/12		<b>B-132</b>		4	4.4V	12V
CKFC, CRMB, CYKA, DFFA	5E, 2.0 TDI	11/12		<b>B-132</b>		3	4.4V	12V
CKFC, CRMB, DCYA, DFFA	5E, 2.0 TDI 4x4	11/12		<b>B-132</b>		3	4.4V	12V
CLHA, CLHB, CRKB, CXXA, CXXB, DBKA, DDYB	5E, 1.6 TDI	11/12		<b>B-132</b>		3	4.4V	12V
CLHA, CXXB	5E, 1.6 TDI 4x4	11/12		<b>B-132</b>		3	4.4V	12V
CUNA, CUPA, DJGA	5E, 2.0 TDI / TDI RS 4x4	09/14		<b>B-132</b>		3	4.4V	12V
	5E, 2.0 TDI RS	05/13		<b>B-132</b>		3	4.4V	12V

### RAPID

CAYB, CAYC, CLNA	HN, 1.6 TDI	07/12		<b>B-132</b>		4	4.4V	12V
CUSB	HN, 1.4 TDI	05/15		<b>B-132</b>		2	4.4V	12V
CXMA	HN, 1.6 TDI	05/15		<b>B-132</b>		3	4.4V	12V

### ROOMSTER

AXR, BSW	5J, 1.9 TDI	03/06	03/10	<b>B-086</b>		4	11V	12V
BNM, BNV	5J, 1.4 TDI	07/06	03/10	<b>B-086</b>		3	11V	12V
CAYB, CAYC	5J, 1.6 TDI	03/10	05/15	<b>B-132</b>		4	4.4V	12V
CFWA	5J, 1.2 TDI	03/10	05/15	<b>B-132</b>		3	4.4V	12V

### SUPERB I

AVB, AVF, AWX	3U, 1.9 TDI	12/01	03/08	<b>B-086</b>		4	11V	12V
AYM, BDG	3U, 2.5 TDI	12/01	03/08	<b>B-111</b>		6	11V	12V

### SUPERB II

BKD	3T, 2.0 TDI	01/09	05/15	<b>PM-405</b>		4	4.4V	12V
CAYC	3T, 1.6 TDI	09/10	05/15	<b>B-132</b>		4	4.4V	12V
CBBB, CFFB, CFGB	3T, 2.0 TDI 4x4	09/08	05/15	<b>B-132</b>		4	4.4V	12V
CBBB, CFFB, CFGB, CLJA	3T, 2.0 TDI	07/08	05/15	<b>B-132</b>		4	4.4V	12V

### SUPERB III

CRLB, DDAA, DFCA, DFEA, DFGA	3V, 2.0 TDI 4x4	03/15		<b>B-132</b>		3	4.4V	12V
CRLB, DDAA, DFCA, DFEA, DFGA, DFHA	3V, 2.0 TDI	03/15		<b>B-132</b>		3	4.4V	12V
DCXA, DCZA	3V, 1.6 TDI	03/15		<b>B-132</b>		3	4.4V	12V

### YETI

CAYC	5L, 1.6 TDI	11/10	05/15	<b>B-132</b>		4	4.4V	12V
CBDB, CEGA, CFHC, CFHF, CFJA, CLCB, CUUA, DFSA	5L, 2.0 TDI 4x4	05/09	12/17	<b>B-132</b>		4	4.4V	12V
CFHA, CFHC, CLCA, CUUA, DFSA	5L, 2.0 TDI	11/09	12/17	<b>B-132</b>		4	4.4V	12V
CUUB, DFSB	5L, 2.0 TDI	05/15	12/17	<b>B-132</b>		3	4.4V	12V
	5L, 2.0 TDI 4x4	05/15	12/17	<b>B-132</b>		3	4.4V	12V

## SMART

### CABRIO

OM 660.940, OM 660 DE 8LA	450, 0.8 CDI	03/01	01/04	<b>B-114</b>		3	11.5V	12V
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### CITY-Coupe

OM 660.940, OM 660 DE 8LA	450, 0.8 CDI	11/99	01/04	<b>B-114</b>		3	11.5V	12V
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### FORFOUR I

OM 639.939	454, 1.5 CDI	09/04	06/06	<b>PM-169</b>		3	11.5V	12V
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ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**SMART****FORTWO**

OM 660 DE 8LA, OM 660.940	450, 0.8 CDI	01/04	01/07	<b>B-114</b>		3	11.5V	12V
OM 660.950	451, 0.8 CDi	01/07		<b>B-114</b>		3	11.5V	12V

**SSANGYONG****ACTYON I**

D20DT	2.0 Xdi	11/05		<b>B-121</b>		4	11V	12V
	200 Xdi 4WD	10/06		<b>B-121</b>		4	11V	12V

**ACTYON Sports I**

D20DT	2.0 Xdi	04/07		<b>B-121</b>		4	11V	12V
	2.0 Xdi 4WD	04/07		<b>B-121</b>		4	11V	12V

**ACTYON Sports II**

D20DTR	2.0 Xdi	10/12		<b>A-610</b>	A6711590101 6711590101	4	4.4V	
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**ISTANA**

OM 602.940	2.9 D	10/92	05/95	<b>B-078</b>		5	11.5V	12V
	2.9 TD	10/92	05/95	<b>B-078</b>		5	11.5V	12V
OM 602.980	2.9 D	06/95	11/03	<b>B-067</b>		5	11.5V	12V
	2.9 D	06/95	11/03	<b>B-081</b>		5	11V	12V

**KORANDO**

D20DTF	2.0 e-Xdi	11/10		<b>A-610</b>	A6711590101 6711590101	4	4.4V	
DC23	2.2 D	12/88	12/96	<b>PI-58</b>		4	11V	12V
MB-OM 662	2.9 D	12/96	10/00	<b>B-078</b>		5	11.5V	12V
MB-OM 662 LA	2.9 TD	04/98	11/06	<b>B-078</b>		5	11.5V	12V
OM 601.940	2.3 D	12/96	06/98	<b>B-078</b>		4	11.5V	12V
	2.3 TDiC 4x4	07/98	11/06	<b>B-078</b>		4	11.5V	12V

**KYRON**

D20DT	2.0 Xdi 4x4	05/05		<b>B-121</b>	66415-90001	4	11V	12V
	2.0 Xdi	05/05		<b>B-121</b>		4	11V	12V
D27DT	2.0 Xdi 4x4	05/05		<b>B-121</b>		4	11V	12V
	2.7 Xdi 4x4	05/05		<b>B-121</b>		5	11V	12V

**MUSSO**

MB-OM 661, OM 601.940, OM 661.940	2.3 D	03/93	04/99	<b>B-078</b>		4	11.5V	12V
MB-OM 662	2.9 D	03/96	11/98	<b>B-078</b>		5	11.5V	12V
	2.3 TDiC AWD	05/97	10/03	<b>B-078</b>		4	11.5V	12V
	2.9 TD	04/98	09/07	<b>B-078</b>		5	11.5V	12V

**MUSSO Sports**

	2.9 D	08/04	09/07	<b>B-078</b>		5	11.5V	12V
	2.9 D 4x4	08/04		<b>B-078</b>		5	11.5V	12V

**REXTON**

D20DTR	W 2.0 Xdi	07/12		<b>A-610</b>	A6711590101 6711590101	4	4.4V	
D27DTP	II 2.7 D 4x4	05/06		<b>A-609</b>	A6671590001 6671590001	5	5V	
	2.7 D 4x4	06/06		<b>B-099</b>		5	11.5V	12V
	2.7 Xdi Turbo 4x4	03/08		<b>B-099</b>		5	11.5V	12V
D27DT	2.7 Xdi	08/04		<b>B-121</b>	66415-90001	5	11V	12V
	2.7 Xdi	03/05	08/06	<b>B-121</b>		5	11V	12V
	2.7 Xdi 4x4	05/04		<b>B-121</b>		5	11V	12V
	2.9 TD	04/02	08/06	<b>B-078</b>		5	11.5V	12V

**RODIUS 2.7 / Xdi**

	2.7 Xdi (4WD)	05/05		<b>B-121</b>	66415-90001	5	11V	12V
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**STAVIC**

D27DT	2.7 270 sXDi	02/05		<b>B-121</b>		5	11V	12V
	2.7 270 sXDi 4x4	02/05		<b>B-121</b>		5	11V	12V

**SUBARU****FORESTER**

EE20Z	2.0 D AWD	09/08		<b>CP-81</b>	22439-AA010	4	11V	
	2.0 D AWD	09/08	12/10	<b>PR-801</b>	22439-AA000	4	11V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## SUBARU

### IMPREZA

EE20Z	2.0 D AWD	01/09		<b>CP-81</b>	22439-AA010	4	11V	
	2.0 D AWD	01/09	12/10	<b>PR-801</b>	22439-AA000	4	11V	12V

### LEGACY

EE20Z	IV 2.0 D AWD	02/08		<b>CP-81</b>	22439-AA010	4	11V	
	V 2.0 D AWD	09/09		<b>CP-81</b>	22439-AA010	4	11V	

### LEGACY IV

EE20Z	2.0 D AWD	02/08	12/09	<b>PR-801</b>	22439-AA000	4	11V	12V
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### LEGACY V

EE20Z	2.0 D AWD	09/09	12/10	<b>PR-801</b>	22439-AA000	4	11V	12V
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### OUTBACK

EE20Z	2.0 D AWD	09/09		<b>CP-81</b>	22439-AA010	4	11V	
	2.0 D AWD	09/08	09/09	<b>PR-801</b>	22439-AA000	4	11V	12V
	2.0 D AWD	09/09	12/10	<b>PR-801</b>	22439-AA000	4	11V	12V

### TREZIA

1ND-TV	1.4 D	03/11		<b>PT-159</b>		4	11V	12V
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## SUZUKI

### BALENO

DHV (XUD9BSD), DHW (XUD9SD)	1.9 TD	04/98	05/02	<b>B-081</b>		4	11V	12V
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### Grand VITARA I

RF, RFM	2.0 TD 4x4	03/98	09/05	<b>PZ-39</b>		4	11V	12V
RHW	2.0 HDI 110 16V 4x4	07/01	09/05	<b>B-089</b>		4	11V	12V
RHZ	2.0 HDI 110 4x4	07/01	09/05	<b>B-089</b>		4	11V	12V

### Grand VITARA II

F9QB	1.9 DDiS AWD	10/05	02/15	<b>B-077</b>	18550-84A51	4	11V	12V
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### IGNIS II

Z13DT	1.3 DDiS	09/03		<b>B-122</b>	18550-84E50, 18550-M86J00	4	11V	12V
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### JIMNY

K9K 266	1.5 DDiS 4x4	08/05		<b>B-077</b>		4	11V	12V
K9K 700	1.5 DDiS 4WD	12/03		<b>B-077</b>		4	11V	12V

### LIANA

8HY	1.4 DDiS	04/04	01/06	<b>B-106</b>		4	11V	12V
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### SAMURAI

XUD9	1.9 TD AWD	11/98	12/04	<b>B-081</b>		4	11V	12V
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### SPLASH

Z13DT	1.3DDiS	08/05		<b>B-122</b>	18550-84E50		11V	
D13A, Z13 DTJ	1.3 CDTI	01/08		<b>B-122</b>	18550-84E50, 18550-M86J00	4	11V	12V

### SWIFT

Z13DT	1.3DDiS	08/05		<b>B-122</b>	18550-84E50		11V	
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### SWIFT IV

D13A, D13AA	1.3 DDiS	10/10		<b>B-122</b>	18550-84E50, 18550-M86J00	4	11V	12V
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### SX4

D20AA	2.0 DDiS	07/09		<b>B-135</b>	13170-79J81 18550-79J80 18550-79J81	4	4.4V	
9HX	1.6 DDiS	04/07		<b>B-106</b>		4	11V	12V
D20AA	2.0 DDiS 4x4	07/09		<b>B-135</b>		4	4.4V	12V

### SX4 S-Cross

D16AA	1.6 DDiS			<b>B-135</b>	13170-79J81 18550-79J80 18550-79J81	4	4.4V	
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### VITARA

D16AA	1.6 DDiS	02/15		<b>B-135</b>		4	4.4V	12V
	1.6 DDiS AWD	02/15		<b>B-135</b>		4	4.4V	12V
RF	2.0 TD AWD	12/94	03/98	<b>B-089</b>		4	11V	12V
	2.0 TD AWD	12/94	03/98	<b>PZ-39</b>		4	11V	12V
	2.0 TD Intercooler AWD	12/95	03/98	<b>B-089</b>		4	11V	12V
	2.0 TD Intercooler AWD	12/95	03/98	<b>PZ-39</b>		4	11V	12V
RHP	2.0 HDI	12/03	12/05	<b>B-089</b>		4	11V	12V
XUD9A, XUD9SD	1.9 D	01/95	03/99	<b>B-081</b>		4	11V	12V
	1.9 D AWD	01/95	03/98	<b>B-081</b>		4	11V	12V

### WAGON R+

Z13DT	1.3 DDiS	09/03		<b>B-122</b>	18550-84E50, 18550-M86J00	4	11V	12V
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ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**TALBOT**










<b>180</b>								
	1.9 D	01/82	12/82	<b>B-081</b>		4	11V	12V
<b>EXPRESS 1000 -1500</b>								
CRD93	2.5 D	07/82	10/94	<b>B-081</b>		4	11V	12V
	2.5 D AWD	11/88	10/94	<b>B-081</b>		4	11V	12V
CRD93LS	2.5 TD	06/87	10/94	<b>B-081</b>		4	11V	12V
	2.5 TD AWD	11/88	10/94	<b>B-081</b>		4	11V	12V
XUD9A	1.9 D	07/87	10/90	<b>B-081</b>		4	11V	12V
<b>EXPRESS 1000 -1800</b>								
XUD9A	1.9 D	07/87	10/90	<b>B-081</b>		4	11V	12V
<b>HORIZON</b>								
XUD9	1.9 Diesel	07/82	06/86	<b>B-081</b>		4	11V	12V
<b>SIMCA</b>								
	1609, 1610, 1610 2.0 D	09/76	12/80	<b>B-081</b>		4	11V	12V
<b>TAGORA</b>								
XD2S	2.3 Turbo Diesel	08/81	12/83	<b>B-081</b>		4	11V	12V










**TATA**









<b>INDICA</b>								
475 DL	1.4 D	10/98	02/08	<b>B-087</b>		4	11V	12V
<b>INDIGO</b>								
475 DL	1.4 D	01/03		<b>B-087</b>		4	11V	12V
<b>LOADBETA</b>								
483 DL	1.9 D AWD	11/95	12/06	<b>B-081</b>		4	11V	12V
483 DL 45	1.9 D	08/94	12/06	<b>B-081</b>		4	11V	12V
<b>SAFARI</b>								
483 DL	2.0 D 4x4	04/98		<b>B-081</b>		4	11V	12V
	2.0 TDi 4x4	07/03		<b>B-081</b>		4	11V	12V
DW12DD	2.2 TDiC	07/06		<b>B-124</b>		4	11V	12V
	2.2 TDiC 4x4	07/06	10/12	<b>B-124</b>		4	11V	12V
<b>SIERRA</b>								
483 DL	2.0 TD	06/97	12/02	<b>B-081</b>		4	11V	12V
	2.0 TD 4x4	06/97	12/02	<b>B-081</b>		4	11V	12V
483 DL 45	1.9 D	08/95	02/00	<b>B-081</b>		4	11V	12V
	1.9 D 4x4	08/95	02/00	<b>B-081</b>		4	11V	12V
<b>TELCOLINE</b>								
483 DL	1.9 TDiC	07/03	12/11	<b>B-081</b>		4	11V	12V
	2.0 TDiC 4x4	07/03	12/11	<b>B-080</b>		4	11V	12V
<b>XENON</b>								
DW12DD	2.2 DiCOR	01/09		<b>B-124</b>		4	11V	12V
	2.2 DiCOR 4x4	01/09		<b>B-124</b>		4	11V	12V

**TOYOTA**

<b>4 RUNNER</b>								
2L-T	N10, 2.4 D	08/89	11/95	<b>PT-155</b>		4	11V	12V
3L	N10, 2.8 D 4WD (KDN170)	08/89	10/95	<b>PT-155</b>		4	11V	12V
<b>AURIS</b>								
1ND-TV	ADE150, ADE157, NDE150, NDE151 1.4 D-4D	03/07		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
	E15, 1.4 D-4D	03/07	02/09	<b>PT-159</b>	19850-0W010	4	11V	12V
	E15, 1.4 D-4D	10/08	09/12	<b>CP-74</b>	19850-33020	4	11V	12V
	E18, 1.4 D-4D	10/12	05/15	<b>CP-74</b>	19850-33020	4	11V	12V
1AD-FTV	E15, 2.0 D-4D	03/07	09/12	<b>CP-23</b>		4	11V	12V
	E18, 2.0 D-4D	10/12	04/15	<b>CP-23</b>		4	11V	12V
<b>AVENSIS</b>								
1AD-FTV	2.0 DT D-4D ADT270L, 2.0 DT D-4D ADT270R	11/11		<b>CP-24</b>	19850-26030	4	7V	
	2.0 D-4D	03/06	11/08	<b>CP-23</b>		4	11V	12V
	2.0 D-4D	11/08		<b>CP-23</b>		4	11V	12V
1CD-FTV	CDT250	03/03		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
2AD-FHV	T3, TR, T4, T Spirit, T180	07/05		<b>PT-500</b>	19850-0R010 19850-26010	4	11V	12V
	2.2 D-CAT	07/05	11/08	<b>CP-23</b>		4	11V	12V
2AD-FHV, 2AD-FTV	2.2 D-4D	11/08		<b>CP-23</b>		4	11V	12V










 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>TOYOTA</b>																	
<b>AVENSIS</b>																	
2AD-FTV	2.2 D-4D	10/05	11/08	<b>CP-23</b>				4	11V	12V							
2C-T	2.0 D	10/97	05/98	<b>PT-154</b>				4	11V	12V							
2C-TE	2.0 TD	09/97	02/03	<b>PT-154</b>				4	11V	12V							
<b>AYGO</b>																	
	1.4 HDi	07/05		<b>B-123</b>	SU00100850				11V								
<b>BLIZZARD</b>																	
2L	Q-LD21G, N-LD20V	08/83	02/90	<b>PT-140</b>	19850-54050			4	7V	12V							
2L-T	Q-LD21G, N-LD20V	08/83	02/90	<b>PT-147</b>	19850-54070 19850-54071			4	6V	12V							
2L-TE	Q-LJ71G, Q-LJ78G	04/90		<b>PT-151</b>	19850-54090			4	11V	12V							
L	K-LD10, K-LD10V	03/80	10/81	<b>PT-103</b>	19850-54030			4	11V	12V							
	K-LD10, K-LD10V	03/80	10/81	<b>PT-144</b>	19850-54031			4	11V	12V							
	K-LD10, K-LD10V	10/81		<b>PT-140</b>	19850-54050			4	7V	12V							
<b>CALDINA</b>																	
2C	X-CT190G, Y-CT190G, KD-CT190G, S-CT196V, S-CT198V, KB-CT196V, KB-CT198V	11/92	01/96	<b>PT-150</b>	19850-64020			4	11V	12V							
2C-T	KD-CT190G	01/96	09/97	<b>PT-154</b>	19850-64050			4	11V	12V							
3C-E	KF-CT197V, KF-CT199V, KJ-CT197V	05/98		<b>PT-154</b>	19850-64050			4	11V	12V							
3C-TE	KH-CT216G	09/97		<b>CP-22 JPX-22</b>	19850-67030			4	11V	12V							
<b>CAMERY VISTA</b>																	
1C-TL	N-CV10	08/83	08/88	<b>PT-107</b>	19850-64010			4	7V	12V							
2C-T	Q-CV20	08/88	07/90	<b>PT-150</b>	19850-64020			4	11V	12V							
	Q-CV30, X-CV30	07/90	07/94	<b>PT-150</b>	19850-64020			4	11V	12V							
2C-TL	N-CV11	01/86	08/88	<b>PT-107</b>	19850-64010			4	7V	12V							
3C-T	KD-CV40	07/94	04/96	<b>CP-22 JPX-22</b>	19850-67020 19850-67030			4	11V	12V							
	KD-CV40, KD-CV43	05/96		<b>CP-22 JPX-22</b>	19850-67020 19850-67030			4	11V	12V							
<b>CARINA</b>																	
1C	N-CA60, N-CA67V	02/82	04/88	<b>PT-107</b>	19850-64010			4	7V	12V							
2C	Q-CT170, Q-CT170G, X-CT170, X-CT170G	05/88	11/92	<b>PT-150</b>	19850-64020			4	11V	12V							
	X-CT190, X-CT195, Y-CT195, KD-CT190, KD-CT195	08/92	08/96	<b>PT-150</b>	19850-64020			4	11V	12V							
2C-L	Q-CT150, N-CT150	05/84	04/88	<b>PT-107</b>	19850-64010			4	7V	12V							
2C-T	KD-CT210, KD-CT215	08/96	08/98	<b>PT-154</b>	19850-64050			4	11V	12V							
3C-TE	KE-CT211, KH-CT216	08/98		<b>CP-22 JPX-22</b>	19850-67030			4	11V	12V							
<b>COASTER</b>																	
1HD-T	U-HDB30, U-HDB31	08/89		<b>PT-153</b>	19850-58010			6	23V	24V							
1HZ	KC-HZB50	05/94		<b>PT-153</b>	19850-58010			6	23V	24V							
	U-HZB30, U-HZB31, U-HZB36V	08/89		<b>PT-153</b>	19850-58010			6	23V	24V							
2H	N-HB30	05/82		<b>PT-141</b>	19850-68060			6	14V	24V							
3B	K-BB21, K-BB31, K-BB26V	08/89		<b>PT-153</b>	19850-58010			4	23V	24V							
B 2B 3B	BU19	02/72	10/74	<b>PT-94</b>	19850-56010			4	19V	24V							
	BU19, BB10, K-BB10, K-BB11	10/74	04/82	<b>PT-101</b>	19850-56012			4	20.5V	24V							
	BU19, BB10, K-BB10, K-BB11	10/74	04/82	<b>PT-109</b>	19850-68040			4	20.5V	24V							
	K-BB20, K-BB30	05/82	07/89	<b>PT-141</b>	19850-68060			4	14V	24V							
J05C	KC-RX4, KK-RX4JFET	05/99		<b>PH-26</b>	19110-1220 19850-89101			4	23V	24V							
<b>COMFORT</b>																	
2L-TE	KD-LXS11	12/95		<b>CP-20</b>	19850-54110			4	11V	12V							
<b>COROLLA</b>																	
1AD-FTV	E14, E15, 2.0 D-4D	11/06	07/14	<b>CP-23</b>				4	11V	12V							
1ND-TV	E12, 1.4 D4-D	06/04	10/07	<b>PT-159</b>	19850-0W010			4	11V	12V							
	E12, 1.4 D-4D	06/04	10/06	<b>PT-159</b>	19850-0W010			4	11V	12V							
	E14, E15, 1.4 D-4D	10/06	02/09	<b>PT-159</b>	19850-0W010			4	11V	12V							
	E14, E15, 1.4 D-4D	10/08	07/14	<b>CP-74</b>	19850-33020			4	11V	12V							
	E18, 1.4 D-4D	06/13	05/15	<b>CP-74</b>	19850-33020			4	11V	12V							
1WZ	E11, 1.9 D	02/00	01/02	<b>B-087</b>				4	11V	12V							
<b>COROLLA FX</b>																	
1C	1.8 D	01/85	05/87	<b>PT-154</b>				4	11V	12V							
<b>COROLLA LUNA</b>																	
1ND-TV D-4D		2004	2007	<b>PT-157</b>	19850-27010 19850-30010			4	11V	12V							
<b>COROLLA SPRINTER</b>																	
1C, 1C-L	N-CE70, N-CE71V, N-CE72G, N-CE80	02/82	07/87	<b>PT-107</b>	19850-64010			4	7V	12V							
1C-II 1C-III	Q-CE90, Q-CE96V, Q-CE96G	06/89		<b>PT-150</b>	19850-64020			4	11V	12V							

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
<b>TOYOTA</b>								
<b>COROLLA SPRINTER</b>								
1C-II 1C-III	Q-CE91, Q-CE97G, Q-CE96V	05/87	06/91	<b>PT-150</b>	19850-64020	4	11V	12V
1N-T	NL50	09/94		<b>PT-155</b>	19850-54120	4	11V	12V
	Q-NL30	05/86	08/90	<b>PT-140</b>	19850-54050	4	7V	12V
	X-NL40	09/90	08/94	<b>PT-151</b>	19850-54090	4	11V	12V
2C-III	X-CE100, X-CE110, X-CE114, KA-CE106V, KA-CE109V, KD-CE108G, KD-CE109G, KD-CE110, KD-CE114	06/91	04/98	<b>PT-150</b>	19850-64020	4	11V	12V
<b>COROLLA VERSO</b>								
1CD-FTV D-4D	CE120, CDE120	10/01	2007	<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
2AD-FHV, 2AD-FTV	2.2 D-4D	10/05	03/09	<b>CP-23</b>		4	11V	12V
<b>COROLLA WAGON</b>								
3C-E	KE-CE101G, KE-CE102G, KE-CE105V, KE-CE107V, KE-CE113, KE-CE116, KF-CE105V, KH-CE116	04/98		<b>PT-154</b>	19850-64050	4	11V	12V
<b>CORONA</b>								
1C, 1C-II 2C-L	N-CT140, N-CT147V, N-CT150	02/82	12/87	<b>PT-107</b>	19850-64010	4	7V	12V
2C	X-CT170	08/94	01/96	<b>PT-150</b>	19850-64020	4	11V	12V
2C-III	Q-CT170, S-CT176V	12/87		<b>PT-150</b>	19850-64020	4	11V	12V
<b>CRESSIDA</b>								
L	2.2 D	09/80	08/82	<b>PT-155</b>		4	11V	12V
<b>CROWN</b>								
2L	N-LS120, N-LS126V, N-LS130	08/83	07/89	<b>PT-140</b>	19850-54050	4	7V	12V
2L-II	Q-LS130, S-LS136V	08/89		<b>PT-151</b>	19850-54090	4	11V	12V
2L-T	N-LS111, N-LS120, N-LS130, N-LS130G	08/82	07/89	<b>PT-147</b>	19850-54070 19850-54071	4	6V	12V
2L-TII	Q-LS130	08/89		<b>PT-151</b>	19850-54090	4	11V	12V
2L-TE	KD-LS151H	12/95		<b>CP-20</b>	19850-54110	4	11V	12V
	N-LS111, N-LS120	08/82	08/84	<b>PT-151</b>	19850-54090	4	11V	12V
2L-THE	N-LS120, N-LS120G		12/84	<b>PT-147</b>	19850-54070 19850-54071	4	6V	12V
	N-LS120, N-LS120G, N-LS130, N-LS130G	12/84	07/89	<b>PT-147</b>	19850-54070 19850-54071	4	6V	12V
2L-THEII	Q-LS130, Q-LS131, Q-LS130G, Q-LS141	08/89		<b>PT-151</b>	19850-54090	4	11V	12V
L	K-LS110, K-LS117V	08/81	07/83	<b>PT-144</b>	19850-54031	4	11V	12V
	K-LS110, K-LS117V	09/79	08/81	<b>PT-103</b>	19850-54030	4	11V	12V
	N-LS110, N-LS110G, N-LS117V	09/81	07/83	<b>PT-140</b>	19850-54050	4	7V	12V
<b>DELIBOY</b>								
2C	S-CXC10V	05/91		<b>PT-150</b>	19850-64020	4	11V	12V
<b>DYNA</b>								
1W	P-WU26, P-WU40, P-WU50, P-WU90, P-WU95	04/83		<b>PT-148</b>	19850-78010	4	14V	24V
2B	K-BU31	08/77	08/80	<b>PT-100</b>	19850-56021 19850-56022	4	8.5V	12V
	K-BU31	08/77	08/80	<b>PT-101</b>	19850-56012	4	20.5V	24V
	K-BU31	08/77	08/80	<b>PT-104</b>	19850-68030	4	8.5V	12V
	K-BU31	08/77	08/80	<b>PT-109</b>	19850-68040	4	20.5V	24V
	K-BU31	08/80		<b>PT-108</b>	19850-68020	4	23V	24V
	K-BU31	08/80		<b>PT-145</b>	19850-68010	4	10.5V	12V
2J	JU10, JU12, JU15, JU20, K-JU20	01/73	10/74	<b>PT-100</b>	19850-56021 19850-56022	4	8.5V	12V
	JU10, JU12, JU15, JU20, K-JU20	01/73	10/74	<b>PT-101</b>	19850-56012	4	20.5V	24V
	JU10, JU12, JU15, JU20, K-JU20	01/73	10/74	<b>PT-104</b>	19850-68030	4	8.5V	12V
	JU10, JU12, JU15, JU20, K-JU20	01/73	10/74	<b>PT-109</b>	19850-68040	4	20.5V	24V
2KD-FTV	KDY220, KDY230, KDY250, KDY260	08/01		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
2L	N-LY50, N-LY60	08/85	08/88	<b>PT-140</b>	19850-54050	4	7V	12V
	U-LY50	08/88	05/95	<b>PT-151</b>	19850-54090	4	11V	12V
3B	K-BU36	08/80	04/82	<b>PT-109</b>	19850-68040	4	20.5V	24V
	K-BU36, N-BU23, N-BU34, N-BU37	04/82		<b>PT-141</b>	19850-68060	4	14V	24V
	KC-BU100, KC-BU100A, KC-BU105, KC-BU120V, KC-BU140, KC-BU145	05/95		<b>PT-153</b>	19850-58010	4	23V	24V
3L	U-LY51, U-LY61	03/88	05/95	<b>PT-151</b>	19850-54090	4	11V	12V
5L	KG-LY102, KG-LY112, KG-LY132, KG-LY152, KG-LY162, KG-LY202, KG-LY212	05/99		<b>PT-155</b>	19850-54120	4	11V	12V
B	BU10, BU12, BU15	02/72	10/74	<b>PT-93</b>	19850-56020	4	8V	12V
	BU10, BU12, BU15	02/72	10/74	<b>PT-94</b>	19850-56010	4	19V	24V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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## TOYOTA

DYNA								
B	BU10, BU12, BU15, BU20, BU25, BU30, K-BU10V, K-BU20, K-BU20V, K-BU30V	10/74	08/80	<b>PT-100</b>	19850-56021 19850-56022	4	8.5V	12V
	BU10, BU12, BU15, BU20, BU25, BU30, K-BU10V, K-BU20, K-BU20V, K-BU30V	10/74	08/80	<b>PT-101</b>	19850-56012	4	20.5V	24V
	BU10, BU12, BU15, BU20, BU25, BU30, K-BU10V, K-BU20, K-BU20V, K-BU30V	10/74	08/80	<b>PT-104</b>	19850-68030	4	8.5V	12V
	BU10, BU12, BU15, BU20, BU25, BU30, K-BU10V, K-BU20, K-BU20V, K-BU30V	10/74	08/80	<b>PT-109</b>	19850-68040	4	20.5V	24V
	K-BU20, K-BU30, K-BU35, K-BU22, K-BU22V, K-BU33, K-BU60, K-BU70, K-BU80	04/82	07/89	<b>PT-141</b>	19850-68060	4	14V	24V
	K-BU20, K-BU30, K-BU35, K-BU22, K-BU22V, K-BU33, K-BU60, K-BU70, K-BU80	04/82	07/89	<b>PT-145</b>	19850-68010	4	10.5V	12V
	K-BU20, K-BU30, K-BU35, K-BU22, K-BU22V, K-BU33, K-BU60, K-BU70, K-BU80	08/80	04/82	<b>PT-101</b>	19850-56012	4	20.5V	24V
	K-BU20, K-BU30, K-BU35, K-BU22, K-BU22V, K-BU33, K-BU60, K-BU70, K-BU80	08/80	04/82	<b>PT-109</b>	19850-68040	4	20.5V	24V
	K-BU20, K-BU30, K-BU35, K-BU22, K-BU22V, K-BU33, K-BU60, K-BU70, K-BU80	08/80	04/82	<b>PT-145</b>	19850-68010	4	10.5V	12V
	N-BU60, N-BU70V, N-BU70VH, N-BU83	08/88	05/95	<b>PT-153</b>	19850-58010	4	23V	24V
	U-BU60, U-BU70V, U-BU70VH, U-BU83	08/90	05/95	<b>PT-153</b>	19850-58010	4	23V	24V
	H 2H	HU15	05/72	10/74 10/74~ 04/82	<b>PT-94</b>	19850-56010	6	19V
HU15, HU30 K-HU30		05/72	10/74 10/74~ 04/82	<b>PT-101</b> <b>PT-109</b>	19850-56012 19850-68040	6	20.5V	24V
K-HU26, K-HU40, K-HU50		04/82	04/83	<b>PT-141</b>	19850-68060	6	14V	24V
J05C	350 SERIES, KC-FB4	05/95		<b>PH-26</b>	19110-1220 19850-89101	4	23V	24V
S05C	KK-XZU302, KK-XZU302A, KK-XZU302D, KK-XZU302H, KK-XZU307, KK-XZU307V, KK-XZU312D, KK-XZU322, KK-XZU322D, KK-XZU337, KK-XZU347, KK-XZU352D, KK-XZU362, KK-XZU362A, KK-XZU362D, KK-XZU372, KK-XZU382	05/99		<b>PH-26</b>	19110-1220 19850-89101	4	23V	24V
S05D	KK-XZU301A, KK-XZU301D, KK-XZU301H, KK-XZU306, KK-SZU311A, KK-SZU311D, KK-SZU321A, KK-SZU321D, KK-SZU331, KK-XZU341, KK-XZU346, KK-XZU351D, KK-XZU371	05/99		<b>PH-26</b>	19110-1220 19850-89101	4	23V	24V
ECHO / ECHO VERSO								
1ND-TV	NLP10, NLP20, NLP22	2002		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
EMINA LUCIDA								
3C-T	Q-CXR10G, Q-CXR20G, Q-CXR21G	01/92		<b>CP-22</b> <b>JPX-22</b>	19850-67020	4	11V	12V
GAIA								
3C-TE	KH-CXM10G	05/98		<b>CP-22</b> <b>JPX-22</b>	19850-67030	4	11V	12V
GRANVIA								
1KZ-TE	KD-KCH10W, KD-KCH16W	08/93		<b>CP-22</b> <b>JPX-22</b>	19850-67020 19850-67030	4	11V	12V
HIACE								
1KZ-TE	Y-KZH100G, Y-KZH106G, Y-KZH106W, Y-KZH110G, Y-KZH116G, Y-KZH120G, Y-KZH126G, KD-KZH100G, KD-KZH106G, KD-KZH106W, KD-KZH110G, KD-KZH116G, KD-KZH120G, KD-KZH126G, KC-KZH132V, KC-KZH138V, KH-KZH100G, KH-KZH106G, KH-KZH106W, KH-KZH110G, KH-KZH116G, KH-KZH120G, KJ-KZH132V, KJ-KZH138V	08/93		<b>CP-22</b> <b>JPX-22</b>	19850-67020 19850-67030	4	11V	12V
2KD-FTV	KLH12, KLH22, KLH28	08/01		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
2L	N-LH51V, N-LH51G, N-LH56V, N-LH61V, N-LH61G, N-LH61B, N-LH66V, N-LH71V, N-LH71B, N-LH80	01/84	07/89	<b>PT-140</b>	19850-54050	4	7V	12V
	Q-LH100G, Q-LH110G, Q-LH140G	08/89	08/93	<b>PT-151</b>	19850-54090	4	11V	12V
	U-LH80, U-LH80VH, U-LH85, U-LH90, U-LH95, U-LH102V	08/88	08/95	<b>PT-151</b>	19850-54090	4	11V	12V
2L-II	U-LH80	08/88		<b>PT-151</b>	19850-54090	4	11V	12V
2L-T	N-LH51G, Q-LH51G	08/87	07/89	<b>PT-147</b>	19850-54070 19850-54071	4	6V	12V
	Q-LH100G, Q-LH120G	08/89	10/90	<b>PT-151</b>	19850-54090	4	11V	12V
3L	KC-LH103V, KC-LH109V, KC-LH113K, KC-LH113V, KC-LH119V, KC-LH123V, KC-LH125B, KC-LH129V	08/96	08/98	<b>PT-155</b>	19850-54120	4	11V	12V
	KC-LY101, KC-LY111, KC-LY151, KC-LY161	08/95	10/96	<b>PT-151</b>	19850-54090	4	11V	12V

 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
<b>TOYOTA</b>								
<b>HIACE</b>								
3L	Q-LH107G, Q-LH107W, Q-LH117G, S-LH115B, U-LH103V, U-LH109V, U-LH113V, U-LH119V, U-LH123V, U-LH125B, U-LH129V, KC-LH103V, KC-LH109V, KC-LH113K, KC-LH113V, KC-LH119V, KC-LH123V, KC-LH125B, KC-LH129V	08/88		<b>PT-151</b>	19850-54090	4	11V	12V
5L	KG-LH162V, KG-LH168V, KG-LH172K, KG-LH172V, KG-LH178V, KG-LH182K, KG-LH184B, KG-LH186B, KG-LH188K	08/98		<b>PT-155</b>	19850-54120	4	11V	12V
L	K-LH20G, K-LH24, K-LH40B, K-LH40V			<b>PT-142</b>	19850-54060	4	16V	24V
	K-LH20G, K-LH24, K-LH40B, K-LH40V	05/81	11/82	<b>PT-140</b>	19850-54050	4	7V	12V
	K-LH20V, K-LH20G, K-LH24, K-LH30, K-LH30V, K-LH40V, K-LH40B			<b>PT-144</b>	19850-54031	4	11V	12V
	K-LH20V, K-LH20G, K-LH24, K-LH30, K-LH30V, K-LH40V, K-LH40B	07/79	05/81	<b>PT-103</b>	19850-54030	4	11V	12V
	N-LH24, N-LH24HV, N-LH50V, N-LH50G, N-LH60B, N-LH60G, N-LH60V, N-LH70V, N-LH70B	12/82	08/85	<b>PT-140</b>	19850-54050	4	7V	12V
<b>HILUX</b>								
1KZ-TE	KD-KZN185	08/97		<b>CP-22 JPX-22</b>	19850-67020 19850-67030	4	11V	12V
	KZN130W	08/93		<b>CP-22 JPX-22</b>	19850-67020 19850-67030	4	11V	12V
2L	N-LN56, N-LN60, N-LN65	11/83		<b>PT-140</b>	19850-54050	4	7V	12V
	N-LN56, N-LN60, N-LN65	11/83		<b>PT-142</b>	19850-54060	4	16V	24V
2L-II	S-LN80, S-LN85	09/88		<b>PT-151</b>	19850-54090	4	11V	12V
2L-IIT	L-LN61V	09/88		<b>PT-151</b>	19850-54090	4	11V	12V
2L-T	N-LN60V	11/84		<b>PT-147</b>	19850-54070 19850-54071	4	6V	12V
2L-TE	KB-LN165, KB-LN170H	09/97		<b>PT-155</b>	19850-54120	4	11V	12V
	Q-LN130G	08/90	09/97	<b>PT-151</b>	19850-54090	4	11V	12V
3L	S-LN100, S-LN106, S-LN131V	02/82		<b>PT-151</b>	19850-54090	4	11V	12V
5L	KF-LN167, KF-LN172H	09/97		<b>PT-155</b>	19850-54120	4	11V	12V
L	K-LN30, K-LN40	12/79	10/81	<b>PT-103</b>	19850-54030	4	11V	12V
	K-LN30, K-LN40	12/79	10/81	<b>PT-144</b>	19850-54031	4	11V	12V
	K-LN40, K-LN46, N-LN40, N-LN55	10/81		<b>PT-140</b>	19850-54050	4	7V	12V
	K-LN40, K-LN46, N-LN40, N-LN55	11/83		<b>PT-142</b>	19850-54060	4	16V	24V
<b>HILUX REVO</b>								
1GD-FTV	2.8	01/15		<b>CP-25</b>	19850-11010 19850-11040	4	7V	
2GD-FTV	2.4	01/15		<b>CP-25</b>	19850-11010 19850-11040	4	7V	
<b>HILUX VIGO</b>								
1KD-FTV	KH-KDN185			<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
	KH-KDN185W-GAPGY	10/00		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
2KD-FTV	KDN145, KDN150, KDN165, KDN170, KDN190	08/01		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
<b>IPSUM</b>								
3C-TE	KH-CXM10G	08/97		<b>CP-22 JPX-22</b>	19850-67030	4	11V	12V
<b>iQ</b>								
1ND-TV	1.4 D-4D	01/09	12/15	<b>CP-74</b>	19850-33020	4	11V	12V
1ND-TV D-4D	1.4 NUJ10	11/08		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
<b>LAND CRUISER</b>								
12HT	J60, 4.0 Turbo-D	10/85	12/89	<b>PT-153</b>		4	23V	24V
1VD-FTV	J200, 4.5 D V8	01/08		<b>CP-23</b>		8	11V	12V
	J200, 4.5 D-4D	08/07		<b>CP-23</b>		8	11V	12V
	J200, 4.5 D-4D	01/08		<b>CP-23</b>		8	11V	12V
2H	J40, 4.0 D	08/80	10/84	<b>PT-154</b>		6	11V	12V
	J60, 4.0 Diesel	10/81	01/88	<b>PT-154</b>		6	11V	12V
B	J40, 3.0 D 4WD	03/69	01/75	<b>PT-93</b>		4	8V	12V
	J40, 3.0 D 4WD	03/69	10/74	<b>PT-94</b>		4	19V	24V
	J40, 3.0 D 4WD	03/69	10/84	<b>B-081</b>		4	11V	12V
<b>LAND CRUISER / LAND CRUISER PRADO</b>								
1HD-FTE	J70, 4.2 TDi 4x4	09/01	06/06	<b>PT-154</b>		6	11V	12V
1HDT	U-HDJ81	01/90	01/95	<b>PT-152</b>	19850-64031	6	11V	12V
1HZ	KG-HZJ71, KG-HZJ71V, KG-HZJ74K, KG-HZJ74V, KG-HZJ76K, KG-HZJ76V, KG-HZJ79	08/99		<b>PT-158</b>	19850-17020	6	11V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## TOYOTA

## LAND CRUISER / LAND CRUISER PRADO

1HZ	S-HZJ73HV, U-HZJ70V, U-HZJ73HV, U-HZJ77HV, KB-HZJ70, KB-HZJ73V	01/90	08/99	<b>PT-153</b>	19850-58010	6	23V	24V
	U-HZJ75, U-HZJ81V, KC-HZJ75, KC-HZJ81V	01/90	08/99	<b>PT-152</b>	19850-64031	6	11V	12V
1KD-FTV D-4D	KDJ120, KDJ125	09/02		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
	KH-KDJ95W-GKPGY KH-KDJ90, KH-KDJ95	10/00		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
	KZJ90, KZJ95	1998		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
	LJ120, LJ125	09/02		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
1KZ-TE	KD-KZJ90W, KD-KZJ95W	05/96		<b>CP-22 JPX-22</b>	19850-67020 19850-67030	4	11V	12V
	KZJ71G, KZJ71W, KZJ78G, KZJ78W	05/93		<b>CP-22 JPX-22</b>	19850-67020 19850-67030	4	11V	12V
1PZ	S-PZJ70, S-PZJ77V, S-PZJ77HV	01/90	01/94	<b>PT-153</b>	19850-58010	6	23V	24V
2B	K-BJ41, K-BJ41V, K-BJ44	02/79 10/81	10/81 09/82	<b>PT-109</b>	19850-68040	4	20.5V	24V
				<b>PT-141</b>	19850-68060	4	14V	24V
2H	N-HJ60	08/88	01/90	<b>PT-153</b>	19850-58010	6	23V	24V
	N-HJ60V	10/82	08/88	<b>PT-141</b>	19850-68060	6	14V	24V
2L-TE	Q-LJ71G, Q-LJ78G, Q-LJ78W	04/90	05/93	<b>PT-151</b>	19850-54090	4	11V	12V
3B	K-BJ60, K-BJ60V	08/80	10/81	<b>PT-108</b>	19850-68020	4	23V	24V
	K-BJ60, K-BJ60V	08/80	10/81	<b>PT-145</b>	19850-68010	4	10.5V	12V
	N-BJ42, N-BJ42V, N-BJ46, N-BJ46V, N-BJ61V	10/81		<b>PT-141</b>	19850-68060	4	14V	24V
	N-BJ42, N-BJ46, N-BJ61, N-BJ70, N-BJ73	10/81		<b>PT-145</b>	19850-68010	4	10.5V	12V
	S-BJ70, S-BJ70V, S-BJ73V	08/63	01/90	<b>PT-153</b>	19850-58010	4	23V	24V
5L-E	J120, 3.0 D (LJ120, LJ125)	09/02	02/10	<b>PT-155</b>		4	11V	12V
B	BJ40, BJ43, BJ43V	02/74	02/79	<b>PT-100</b>	19850-56021 19850-56022	4	8.5V	12V
	BJ40, BJ43, BJ43V	02/74	02/79	<b>PT-101</b>	19850-56012	4	20.5V	24V
	BJ40, BJ43, BJ43V	02/74	02/79	<b>PT-104</b>	19850-68030	4	8.5V	12V
	BJ40, BJ43, BJ43V	02/74	02/79	<b>PT-93</b>	19850-56020	4	8V	12V
	BJ40, BJ43, BJ43V	02/74	02/79	<b>PT-94</b>	19850-56010	4	19V	24V

## LAND CRUISER PRADO TX

1GD-FTV	2.8 GDJ150, 2.8 GDJ151	01/15		<b>CP-25</b>	19850-11010 19850-11040	4	7V	
2GD-FTV	2.4 GDJ150, 2.4 GDJ151	01/15		<b>CP-25</b>	19850-11010 19850-11040	4	7V	

## LITEACE

1C	N-CM20, N-CM20G, N-CM20V	10/82	07/88	<b>PT-107</b>	19850-64010	4	7V	12V
1C-II	N-CM20, CR26V	08/85	07/88	<b>PT-107</b>	19850-64010	4	7V	12V
	S-CM50	08/88		<b>PT-150</b>	19850-64020	4	11V	12V
2C-II	N-CM26, CR27V	08/85		<b>PT-107</b>	19850-64010	4	7V	12V
2C-III 2C	KB-CR41V, KB-CR51V	10/96		<b>PT-154</b>	19850-64050	4	11V	12V
	Q-CM30G, S-CM31V, S-CM36V, S-CM41V, S-CM51, S-CM55, S-CM60, S-CM65	08/88		<b>PT-150</b>	19850-64020	4	11V	12V
2C-IIIT	Q-CM30G, Q-CM40G	08/88		<b>PT-150</b>	19850-64020	4	11V	12V
2C-T	CR22G, CR29G, CR31G, CR38G	08/93		<b>PT-150</b>	19850-64020	4	11V	12V
3C-T	CR22G, CR29G, CR31G, CR38G	08/94	10/96	<b>CP-22 JPX-22</b>	19850-67020 19850-67030	4	11V	12V
	KD-CR40G, KD-CR50G	10/96		<b>CP-22 JPX-22</b>	19850-67020 19850-67030	4	11V	12V
2C	2.0 D	01/92	05/94	<b>PT-154</b>	19850-64050	4	11V	12V
	2.0 D	08/88	01/92	<b>PT-154</b>	19850-64050	4	11V	12V










## LITEACE NOAH

2C-III	KB-CR41V, KB-CR51V	10/96		<b>PT-154</b>	19850-64050	4	11V	12V
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## MARK CHASER CRESTA

2L	N-LX70, N-LX76V	08/84	08/88	<b>PT-140</b>	19850-54050	4	7V	12V
2L, 2L-T 2L-II 2L-IIIT	Q-LX80	08/88	08/92	<b>PT-151</b>	19850-54090	4	11V	12V
	N-LX70	08/84	08/88	<b>PT-147</b>	19850-54070 19850-54071	4	6V	12V
	KD-LX100	08/96		<b>CP-20</b>	19850-54110 19850-54130	4	11V	12V
	Y-LX90	10/92	08/96	<b>CP-20</b>	19850-54110 19850-54130	4	11V	12V
L	K-LX40, K-LX60, K-LX67V	09/79	07/82	<b>PT-103</b>	19850-54030	4	11V	12V
	K-LX60	08/82	07/84	<b>PT-140</b>	19850-54050	4	7V	12V



 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>TOYOTA</b>																	
<b>MASSY DYNA</b>																	
DQ100	DQ10, QC10, QC12, QC15			02/69	01/75	<b>PH-21</b>	19850-67010		6	19V	24V						
EH100	EC20, EC22, EC23			02/75	05/78	<b>PH-21</b>	19850-67010		6	19V	24V						
<b>MASTER ACE</b>																	
2C	N-CR21G			04/83		<b>PT-107</b>	19850-64010		4	7V	12V						
2C-II	N-CR21G			08/85		<b>PT-107</b>	19850-64010		4	7V	12V						
2C-IIIT	N-CR21G, N-CR28G, N-CR30G, N-CR37G			08/88		<b>PT-150</b>	19850-64020		4	11V	12V						
<b>MASTER ACE Surf</b>																	
2C-T	2.0 TD			08/88	10/93	<b>PT-154</b>			4	11V	12V						
	2.0 TD 4WD			08/88	12/96	<b>PT-154</b>			4	11V	12V						
<b>PREMIO</b>																	
2C-T	KD-CT210, KD-CT215			01/96	01/98	<b>PT-154</b>	19850-64050		4	11V	12V						
3C-TE	KE-CT211, KH-CT216			01/98		<b>CP-22</b> <b>JPX-22</b>	19850-67030		4	11V	12V						
<b>PREVIA</b>																	
1CD-FTV	2.0D			04/01		<b>PT-157</b>	19850-27010 19850-30010		4	11V	12V						
<b>PROACE</b>																	
3WZ-TV	1.6 D			06/13	03/16	<b>PZ-711</b>			4	5V	12V						
4WZ-FHV, 4WZ-FTW	2.0 D			06/13	03/16	<b>PZ-711</b>			4	5V	12V						
<b>RAV 4</b>																	
1AD-FTV	2.0 D			12/12		<b>CP-23</b>			4	11V	12V						
	2.0 D 4WD			01/13		<b>CP-23</b>			4	11V	12V						
1CD-FTV	2.0D			10/01		<b>PT-157</b>	19850-27010 19850-30010		4	11V	12V						
2AD-FHV, 2AD-FTV	2.2 D			12/08	06/13	<b>CP-23</b>			4	11V	12V						
	2.2 D 4WD			02/06	06/13	<b>CP-23</b>			4	11V	12V						
	2.2 D 4WD			12/12		<b>CP-23</b>			4	11V	12V						
	XT3, XT4, XT5, XTR, T180					<b>CP-23</b>	19850-26020			11V	12V						
<b>REGIUS</b>																	
1KZ-TE	KD-KCH40, KD-KCH46			07/97		<b>CP-22</b> <b>JPX-22</b>	19850-67030		4	11V	12V						
5L	KG-LXH43			08/97		<b>PT-155</b>	19850-54120		4	11V	12V						
<b>STARLET</b>																	
1N	KD-NP90			01/96	07/99	<b>PT-155</b>	19850-54120		4	11V	12V						
	Q-NP50, Q-NP70, N-NP76V			12/86	12/89	<b>PT-140</b>	19850-54050		4	7V	12V						
	Q-NP80, X-NP80			12/89	01/96	<b>PT-151</b>	19850-54090		4	11V	12V						
	P8, 1.5 D			12/89	03/96	<b>PT-155</b>			4	11V	12V						
<b>TERCEL / CORSA / COROLLA</b>																	
1N-T	Q-NL30			05/86	08/90	<b>PT-140</b>	19850-54050		4	7V	12V						
	NL50			09/94	07/99	<b>PT-155</b>	19850-54120			11V	12V						
	X-NL40			09/90	08/94	<b>PT-151</b>	19850-54090			11V	12V						
<b>TOWNACE</b>																	
1C, 2C	N-CM20, N-CM25, N-CR21G, N-CR26V			11/82	09/87	<b>PT-107</b>	19850-64010		4	7V	12V						
1C-II	N-CM20, N-CR26V			08/85	07/87	<b>PT-107</b>	19850-64010		4	7V	12V						
	N-CM50, L-YM55, L-YM60, L-CM50			08/87	10/89	<b>PT-150</b>	19850-64020		4	11V	12V						
2C	KB-CR41V, KB-CR51V			10/96		<b>PT-154</b>	19850-64050		4	11V	12V						
	S-CM51, S-CM55, S-CM60, S-CM65, S-CR27V, S-CR36V			08/90	10/96	<b>PT-150</b>	19850-64020		4	11V	12V						
2C-II	N-CM26, N-CR27V, N-CR21G			08/85	07/87	<b>PT-107</b>	19850-64010		4	7V	12V						
	N-CM51, N-CM55, N-CM60			08/87		<b>PT-150</b>	19850-64020		4	11V	12V						
2C-III	S-CR27V, S-CR36V, S-CM51, S-CM55, S-CM60, S-CM65			08/88		<b>PT-150</b>	19850-64020		4	11V	12V						
2C-IIIT	Q-CR21G, Q-CR28G, Q-CR30G, Q-CR36G, Q-CR37G			08/88		<b>PT-150</b>	19850-64020		4	11V	12V						
2C-T	CR22G, CR29G, CR31G, CR38G			08/93		<b>CP-22</b> <b>JPX-22</b>	19850-67020 19850-67030		4	11V	12V						
2C-TII	N-CR21G			08/85	07/87	<b>PT-107</b>	19850-64010		4	7V	12V						
	N-CR21G, N-CR28G, N-CR30G, N-CR37G			08/87	09/93	<b>PT-150</b>	19850-64020		4	11V	12V						
3C-T	CR22G, CR29G, CR31G, CR38G, KD-CR40G, KD-CR50G			08/94	10/96	<b>CP-22</b> <b>JPX-22</b>	19850-67020 19850-67030		4	11V	12V						
<b>TOYOACE</b>																	
1W	U-WU75D, U-WU90, U-WU95			08/90		<b>PT-148</b>	19850-78010		4	14V	24V						
2J	JY16			07/72	04/74	<b>PT-93</b>	19850-56020		4	8V	12V						
	JY16			07/72	04/74	<b>PT-94</b>	19850-56010		4	19V	24V						
	JY16, K-JY16, K-JY30			04/74	08/80	<b>PT-100</b>	19850-56021 19850-56022		4	8.5V	12V						
	JY16, K-JY16, K-JY30			04/74	08/80	<b>PT-101</b>	19850-56012		4	20.5V	24V						



 ENGINE	 MODEL	 M/Y START	 M/Y END	 HKT No.	 REFERENCE No.	 CYL	 P.V.	 B.V.
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## TOYOTA

### TOYOACE

2J	JY16, K-JY16, K-JY30	04/74	08/80	<b>PT-104</b>	19850-68030	4	8.5V	12V
	JY16, K-JY16, K-JY30	04/74	08/80	<b>PT-109</b>	19850-68040	4	20.5V	24V
	K-JY16, K-JY30	02/82	07/87	<b>PT-108</b>	19850-68020	4	23V	24V
	K-JY16, K-JY30	02/82	07/87	<b>PT-141</b>	19850-68060	4	14V	24V
	K-JY16, K-JY30	02/82	07/87	<b>PT-146</b>	19850-68050	4	6V	12V
	K-JY16, K-JY30	08/80	01/82	<b>PT-145</b>	19850-68010	4	10.5V	12V
	N-LY21, N-LY31, N-LY31V	08/83		<b>PT-140</b>	19850-54050	4	7V	12V
	N-LY21, N-LY31, N-LY31V	08/83		<b>PT-142</b>	19850-54060	4	16V	24V
	N-LY50, N-LY60	08/85	08/88	<b>PT-140</b>	19850-54050	4	7V	12V
2L-II	U-LY50	08/88	05/95	<b>PT-151</b>	19850-54090	4	11V	12V
3B	KC-BU100, KC-BU100A, KC-BU105, KC-BU120V, KC-BU140, KC-BU145	05/95		<b>PT-153</b>	19850-58010	4	23V	24V
	U-BU68DH	10/89	05/95	<b>PT-153</b>	19850-58010	4	23V	24V
3L	KC-LY131	06/95		<b>PT-151</b>	19850-54090	4	11V	12V
	U-LY51, U-LY61	08/88	05/95	<b>PT-151</b>	19850-54090	4	11V	12V
B	3.0 D	03/79	07/83	<b>PT-155</b>	19850-54010	4	11V	12V
	K-BY30	08/80	01/82	<b>PT-108</b>	19850-68020	4	23V	24V
	K-BY30	08/80	01/82	<b>PT-145</b>	19850-68010	4	10.5V	12V
	K-BY30, K-BY31	02/82	07/87	<b>PT-141</b>	19850-68060	4	14V	24V
	K-BY30, K-BY31	02/82	07/87	<b>PT-145</b>	19850-68010	4	10.5V	12V
	N-BU60, N-BU60VH, N-BU70V, N-BU70VH, N-BU80	08/85	08/88	<b>PT-141</b>	19850-68060	4	14V	24V
	N-BU60, N-BU70V, N-BUVH, N-BU83, U-BU60, U-BU70V, U-BUVH, U-BU83	08/88	05/95	<b>PT-153</b>	19850-58010	4	23V	24V
	N-BU60VII	01/86		<b>PT-145</b>	19850-68010	4	10.5V	12V
J05C	G25, FB4J	06/95		<b>PH-26</b>	19850-89101 19110-1220 067100-1830	6	23V	24V
L	K-LY20, K-LY20V, K-LY30, K-LY30V	04/80	01/82	<b>PT-103</b>	19850-54030	4	11V	12V
	K-LY20, K-LY20V, K-LY30, K-LY30V	04/80	01/82	<b>PT-144</b>	19850-54031	4	11V	12V
	K-LY20, K-LY20V, K-LY30, K-LY30V, N-LY20	01/82		<b>PT-140</b>	19850-54050	4	7V	12V
	K-LY20, K-LY20V, K-LY30, K-LY30V, N-LY20	01/82		<b>PT-142</b>	19850-54060	4	16V	24V
S05C	KK-XZU307, KK-XZU372	05/99		<b>PH-26</b>	19850-89101 19110-1220 067100-1830	4	23V	24V

### URBAN CRUISER

1ND-TV	1.4 D-4D	01/09	04/14	<b>CP-74</b>	19850-33020	4	11V	12V
	1.4 D-4D 4WD	01/09	04/14	<b>CP-74</b>	19850-33020	4	11V	12V

### VERSO

1AD-FTV	2.0 D-4D	04/09		<b>CP-23</b>		4	11V	12V
2AD-FHV	2.2 D-4D	04/09		<b>CP-23</b>		4	11V	12V
	2.2 D-CAT	04/09		<b>CP-23</b>		4	11V	12V

### VERSO S

1ND-TV	1.4 D4-D	11/10	10/16	<b>CP-74</b>	19850-33020	4	11V	12V
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### YARIS

1ND-TV	1.4 D-4D NLP10	11/05		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
	1.4 D-4D NLP10	12/01		<b>PT-157</b>	19850-27010 19850-30010	4	11V	12V
	1.4 D	09/11	07/14	<b>CP-74</b>	19850-33020	4	11V	12V
	1.4 D-4D	08/05	11/08	<b>PT-159</b>	19850-0W010	4	11V	12V
	1.4 D-4D	10/01	09/05	<b>PT-159</b>	19850-0W010	4	11V	12V
	1.4 D-4D	11/08	12/12	<b>CP-74</b>	19850-33020	4	11V	12V

### YARIS VERSO

1ND-TV	1.4 D-4D	09/00	09/05	<b>PT-159</b>	19850-0W010	4	11V	12V
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## UAZ

### 31512

XUD11 A	2.1 D	01/98	02/02	<b>B-081</b>		4	11V	12V
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## VAUXHALL

### AGILA II

D13A, Z 13 DTJ	B, 1.3 CDTI	01/08	11/14	<b>B-122</b>	93178047, 93193804, 95508486	4	11V	12V
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ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**VAUXHALL****ANTARA**

Z 20 DMH	2.0 CDTI 4x4	08/06	04/15	<b>A-605</b>		4	4.4V	12V
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**ARENA**

F8Q 600, F8Q 606	1.9 D	03/98	08/01	<b>B-094</b>		4	11V	12V
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S8U 758, S8U 780, S8U 782	2.5 D	03/98	08/01	<b>B-072</b>		4	11.5V	12V
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**ASTRA I**

16 D	1.6 D	02/82	08/86	<b>B-081</b>		4	11V	12V
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**ASTRA II**

16 DA	1.6 D	09/84	08/91	<b>B-081</b>		4	11V	12V
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17 D, 17 DR	1.7 D	01/89	12/91	<b>B-081</b>		4	11V	12V
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**ASTRA III**

17 D, 17 DR	F, 1.7 D	09/91	09/98	<b>B-081</b>		4	11V	12V
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17 DR	F, 1.7 D	03/91	12/94	<b>B-081</b>		4	11V	12V
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17 DT (TC4EE1)	F, 1.7 TD	12/91	09/98	<b>CP-50</b>		4	11V	12V
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X 17 DTL	F, 1.7 TD	01/94	08/98	<b>B-081</b>		4	11V	12V
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	F, 1.7 TD	08/94	09/98	<b>B-081</b>		4	11V	12V
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**ASTRA IV**

X 17 DTL	G, 1.7 TD	02/98	08/06	<b>B-081</b>		4	11V	12V
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X 20 DTL, Y 20 DTL	G, 2.0 DI	02/98	08/06	<b>B-098</b>		4	11V	12V
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Y 20 DTH	G, 2.0 DTI	04/04	08/06	<b>B-098</b>		4	11V	12V
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	G, 2.0 DTI 16V	02/98	08/02	<b>B-098</b>		4	11V	12V
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	G, 2.0 DTI 16V	09/02	05/05	<b>B-107</b>		4	11V	12V
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**ASTRA V**

Z 13 DTH	H, 1.3 CDTI	01/04	12/13	<b>B-122</b>	93178047, 95508486	4	11V	12V
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Z 19 DTH	H, 1.9 CDTI	01/04	11/11	<b>B-125</b>		4	11V	12V
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Z 19 DTJ	H, 1.9 CDTI 16V	01/04	05/09	<b>B-125</b>		4	11V	12V
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Z 19 DTL	H, 1.9 CDTI	01/04	11/11	<b>B-109</b>		4	11V	12V
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**ASTRA VI**

A 20 DTH	J, 2.0 CDTi	12/09		<b>B-135</b>		4	4.4V	12V
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A 20 DTR	J, 2.0 Bi-Turbo CDTI	12/12		<b>B-135</b>		4	4.4V	12V
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**BRAVA**

4JA1	2.5 D	08/91	06/94	<b>PI-49</b>		4	11V	12V
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	2.5 DTI	08/01	12/02	<b>PI-49</b>		4	11V	12V
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	2.5 DTI 4x4	08/01	12/02	<b>PI-49</b>		4	11V	12V
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4JA1-T	2.5 D 4x4	06/90	06/94	<b>PI-49</b>		4	11V	12V
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	2.5 TD	07/94	12/02	<b>PI-49</b>		4	11V	12V
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	2.5 TD 4x4	07/94	12/02	<b>PI-49</b>		4	11V	12V
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**CARLTON II**

23 D	2.3 D	05/83	08/86	<b>B-081</b>		4	11V	12V
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**CARLTON III**

23 DTR	2.3 TD Interc.	08/88	03/94	<b>B-081</b>		4	11V	12V
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23 YD	2.3 D	09/86	03/94	<b>B-081</b>		4	11V	12V
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23 YDT	2.2 TD	09/86	08/88	<b>B-081</b>		4	11V	12V
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**CAVALIER II**

16 D, 16 DA	1.6 D	03/82	08/88	<b>B-081</b>		4	11V	12V
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**CAVALIER III**

17 D	1.7 D	09/88	09/92	<b>B-081</b>		4	11V	12V
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17 DR	1.7 D	07/92	11/95	<b>B-081</b>		4	11V	12V
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17 DT (TC4EE1)	1.7 TD	09/88	11/95	<b>CP-50</b>		4	11V	12V
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	1.7 TD	09/88	11/95	<b>PI-58</b>		4	11V	12V
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**COMBO I**

17 D (4EE1), X 17 D (4EE1)	B, 1.7 D	07/94	10/01	<b>CP-50</b>		4	11V	12V
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**COMBO II**

Y 13 DT, Z 13 DT, Z 13 DTJ	C, 1.3 CDTI 16V	09/04	02/12	<b>B-122</b>	93178047, 93193804, 95508486	4	11V	12V
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**COMBO III**

A 16 FDH, A 16 FDL	D, 1.6 CDTi	11/11		<b>B-135</b>	93191771	4	4.4V	12V
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A 20 FD	D, 2.0 CDTi	11/11		<b>B-135</b>		4	4.4V	12V
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**CORSA I**

15 D	B, 1.5 D	12/92	12/96	<b>CP-50</b>		4	11V	12V
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15 DT (T4EC1), X 15 DT (T4EC1)	B, 1.5 TD	03/93	10/96	<b>CP-50</b>		4	11V	12V
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ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## VAUXHALL

## CORSA I

17 D (4EE1), X 17 D (4EE1)	B, 1.7 D	01/94	09/00	<b>CP-50</b>		4	11V	12V
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## CORSA II

Z 13 DT	C, 1.3 CDTI 16V	08/00	09/06	<b>B-122</b>	93178047, 95508486	4	11V	12V
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## CORSA III

A 13 DTE, A 13 DTR, Z 13 DTE	D, 1.3 CDTI	07/06		<b>B-122</b>	55564219	4	11V	12V
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Z 13 DTH, Z 13 DTJ	D, 1.3 CDTI	07/06		<b>B-122</b>	93178047, 95508486	4	11V	12V
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## FRONTERA I

23 DTR	A, 2.3 TD	09/91	06/98	<b>B-081</b>		4	11V	12V
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25TDS (VM41B)	A, 2.5 TDS	11/91	10/98	<b>B-086</b>		4	11V	12V
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28 TDI (4JB1-T)	A, 2.8 TD	01/95	12/96	<b>PI-49</b>		4	11V	12V
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## FRONTERA II

X 22 DTH	B, 2.2 DTI	10/98	09/04	<b>B-098</b>		4	11V	12V
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Y 22 DTH	B, 2.2 DTI	10/98	09/04	<b>B-107</b>		4	11V	12V
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## INSIGNIA I

A 20 DT, A 20 DTC, A 20 DTH, A 20 DTJ, A 20 DTL	A, 2.0 CDTI	07/08	05/17	<b>B-135</b>		2	4.4V	12V
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A 20 DTH	A, 2.0 CDTI 4x4	07/08	05/17	<b>B-135</b>		2	4.4V	12V
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## MERIVA I

Z 13 DTJ	A, 1.3 CDTI	01/03	10/09	<b>B-122</b>	93178047, 93193804, 95508486	4	11V	12V
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## MIDI I

4FC1	2.0 TD	09/84	05/88	<b>B-104</b>		4	11V	12V
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## MIDI II

4FC1T	2.0 TD	06/88	07/90	<b>PI-51</b>		4	5V	12V
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4FD1	2.2 D	06/88	12/94	<b>PI-51</b>		4	5V	12V
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4FG1T	2.4 TD	09/94	08/97	<b>PI-51</b>		4	5V	12V
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## MONTEREY I

4 JG2TC	3.1 TD	09/91	07/98	<b>PI-57</b>		4	11V	12V
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## MONTEREY II

4 JX1	3.0 DTI	07/98	08/99	<b>PI-172</b>		4	11V	12V
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## MOVANO I

F9Q 774	A, 1.9 DTI	10/01	05/10	<b>B-077</b>		4	11V	12V
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G9T 720, G9T 722, G9T 750	A, 2.2 DTI	09/00	05/10	<b>B-116</b>		4	11V	12V
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G9U 632, G9U 650	A, 2.5 CDTI	10/01	12/10	<b>B-116</b>		4	11V	12V
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G9U 720, G9U 724, G9U 750, G9U 754	A, 2.5 DTI	01/01	05/10	<b>B-116</b>		4	11V	12V
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S8U 770, S8U 772	A, 2.5 D	10/98	08/02	<b>B-072</b>		4	11.5V	12V
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## NOVA

15 D	1.5 D	09/87	10/94	<b>PI-58</b>		4	11V	12V
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15 DT (T4EC1)	1.5 TD	01/90	03/93	<b>PI-51</b>		4	5V	12V
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	1.5 TD	01/90	03/93	<b>PI-57</b>		4	11V	12V
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## OMEGA

U 25 DT, U 25 TD, X 25 DT, X 25 TD	B, 2.5 TD	04/94	07/01	<b>B-081</b>		6	11V	12V
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X 20 DTH	B, 2.0 DTI 16V	01/98	09/00	<b>B-098</b>		4	11V	12V
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Y 22 DTH	B, 2.2 DTI 16V	08/00	07/03	<b>B-107</b>		4	11V	12V
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## SIGNUM

Y 20 DTH	2.0 DTI	05/03	04/04	<b>B-107</b>		4	11V	12V
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Y 22 DTR	2.2 DTI	05/03	05/08	<b>B-107</b>		4	11V	12V
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Z 19 DT	1.9 CDTI	04/04	03/08	<b>B-109</b>		4	11V	12V
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Z 19 DTH	1.9 CDTI 16V	04/04	03/08	<b>B-125</b>		4	11V	12V
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## SINTRA

X 22 DTH	2.2 DTI	07/97	04/99	<b>B-098</b>		4	11V	12V
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## TIGRA TwinTop

Z 13 DT	1.3 CDTI	06/04	08/09	<b>B-122</b>	93178047, 93193804, 95508486	4	11V	12V
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ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**VAUXHALL****VECTRA I**

X 17 DT (TC4EE1)	B, 1.7 TD	10/95	11/96	<b>CP-50</b>		4	11V	12V
X 20 DTH	B, 2.0 DTi 16V	08/95	10/01	<b>B-098</b>		4	11V	12V
X 20 DTL	B, 2.0 DI 16V	08/95	10/01	<b>B-098</b>		4	11V	12V
	B, 2.0 DI 16V	08/95	10/01	<b>B-100</b>		4	11V	12V
Y 20 DTH	B, 2.0 DTi 16V	08/95	10/01	<b>B-107</b>		4	11V	12V
Y 22 DTR	B, 2.2 DTi 16V	08/95	10/01	<b>B-107</b>		4	11V	12V

**VECTRA II**

Y 20 DTH	C, 2.0 DTi 16V	04/02	10/08	<b>B-107</b>		4	11V	12V
Y 22 DTR	C, 2.2 DTi 16V	04/02	10/08	<b>B-107</b>		4	11V	12V
Z 19 DT	C, 1.9 CDTi	04/02	09/08	<b>B-109</b>		4	11V	12V
Z 19 DTH	C, 1.9 CDTi 16V	04/04	05/09	<b>B-125</b>		4	11V	12V

**VIVARO**

F9Q 760	A, 1.9 DTi	08/01	12/06	<b>B-077</b>		4	11V	12V
F9Q 762	A, 1.9 DI	08/01	07/14	<b>B-077</b>		4	11V	12V
G9U 630, G9U 730	A, 2.5 CDTi	04/03	07/14	<b>B-116</b>		4	11V	12V
G9U 730	A, 2.5 DTi	07/03	07/14	<b>B-116</b>		4	11V	12V
R9M-MA, R9M-MB, R9M-MC, R9M-MD, R9M-ME	B, 1.6 CDTi	05/14		<b>PN-901</b>	95518024, 44 23 206	4	4.5V	12V
R9M-MG, R9M-MH, R9M-MJ, R9M-MK	B, 1.6 CDTi	05/14		<b>PN-901</b>	95518024 , 44 23 206 (CYLINDER NO. 2-4)	3	4.5V	12V

**ZAFIRA I**

X 20 DTL	A, 2.0 DI 16V	10/99	08/05	<b>B-098</b>		4	11V	12V
Y 20 DTH	A, 2.0 DTi 16V	04/99	08/05	<b>B-098</b>		4	11V	12V
	A, 2.0 DTi 16V	04/99	08/05	<b>B-107</b>		4	11V	12V

**ZAFIRA II**

Z 19 DT	B, 1.9 CDTi	07/05	11/14	<b>B-109</b>		4	11V	12V
Z 19 DTH	B, 1.9 CDTi	07/05	11/14	<b>B-125</b>		4	11V	12V

**ZAFIRA III**

A 20 DT	C, 2.0 CDTi	10/11	08/18	<b>B-135</b>		2	4.4V	12V
A 20 DTH	C, 2.0 CDTi	01/12	08/18	<b>B-135</b>		2	4.4V	12V

**VOLKSWAGEN****AMAROK**

CDBA, CNFA, CNFB	2H, S1, 2.0 TDI	09/10	10/16	<b>B-132</b>		4	4.4V	12V
	2H, S1, 2.0 TDI 4motion	09/10		<b>B-132</b>		4	4.4V	12V
CDCA, CNEA, CSHA	2H, S1, 2.0 BiTDI	09/10		<b>B-132</b>		4	4.4V	12V
	2H, S1, 2.0 BiTDI 4motion	09/10		<b>B-132</b>		4	4.4V	12V

**BEETLE**

	1.9 TDI	07/05	12/06	<b>B-133</b>	N10591604 N10591608		7V	
CAYC	5C, 1.6 TDI	10/11	07/16	<b>B-132</b>		4	4.4V	12V
CFFB	5C, 2.0 TDI	04/11	07/16	<b>B-132</b>		4	4.4V	12V
CFFB, CUUA, CUUB, CVCA, DELA	5C, 2.0 TDI	04/12		<b>B-132</b>		3	4.4V	12V

**BORA**

AGP, AQM	1J, 1.9 SDI	10/98	05/05	<b>B-077</b>		4	11V	12V
	1J, 1.9 SDI	10/98	05/05	<b>B-092</b>		3	11V	12V
AGR, AHF, AJM, ALH, ARL, ASV, ATD	1J, 1.9 TDI	10/98	05/05	<b>B-092</b>		3	11V	12V
AGR, AHF, AJM, ALH, ASV, AUY	1J, 1.9 TDI	10/98	05/05	<b>B-077</b>		4	11V	12V
AGR, AJM, ARL, ATD	1J, 1.9 TDI 4motion	11/98	05/05	<b>B-092</b>		3	11V	12V
AGR, AJM, AUY	1J, 1.9 TDI 4motion	11/98	04/02	<b>B-077</b>		4	11V	12V
ARL	1J, 1.9 TDI	03/02	05/05	<b>B-086</b>		4	11V	12V
	1J, 1.9 TDI	05/00	03/02	<b>B-077</b>		4	11V	12V
ARL	1J, 1.9 TDI 4motion	03/02	05/05	<b>B-086</b>		4	11V	12V
	1J, 1.9 TDI 4motion	05/00	03/02	<b>B-077</b>		4	11V	12V
ASZ, ATD	1J, 1.9 TDI 4motion	03/02	05/05	<b>B-086</b>		4	11V	12V
	1J, 1.9 TDI 4motion	09/00	03/02	<b>B-077</b>		4	11V	12V
ASZ, ATD, AXR, BEW	1J, 1.9 TDI	03/02	05/05	<b>B-086</b>		4	11V	12V
	1J, 1.9 TDI	09/00	03/02	<b>B-077</b>		4	11V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## VOLKSWAGEN

## CADDY I

JK, ME	14, 1.6 D	08/82	07/92	<b>B-080</b>		4	11V	12V
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## CADDY II

1Y	9K, 9U, 1.9 D	11/95	01/04	<b>B-080</b>		4	11V	12V
1Z, AHU, ALE, ALH	9K, 9U, 1.9 TDI	09/96	01/04	<b>B-077</b>		4	11V	12V
1Z, AHU, ALH	9K, 9U, 1.9 TDI	09/96	01/04	<b>B-092</b>		3	11V	12V
AEF	9K, 9U, 1.9 D	06/96	12/00	<b>B-080</b>		4	11V	12V
AEY	9K, 9U, 1.9 SDI	11/95	01/04	<b>B-080</b>		3	11V	12V
AEY, AYQ	9K, 9U, 1.9 SDI	11/95	01/04	<b>B-077</b>		4	11V	12V
AHB	9K, 9U, 1.7 SDI	07/96	09/00	<b>B-077</b>		4	11V	12V

## CADDY III

BDJ, BST	2K, 2C, 2.0 SDI	03/04	08/10	<b>B-086</b>		4	11V	12V
CAYD, CAYE	2K, 2C, 1.6 TDI	08/10	05/15	<b>B-132</b>		4	4.4V	12V
CFHC, CFHE, CFHF	2K, 2C, 2.0 TDI 4motion	08/10	05/15	<b>B-132</b>		4	4.4V	12V
CFHC, CFHE, CLCA, CLCB	2K, 2C, 2.0 TDI	08/10	05/15	<b>B-132</b>		4	4.4V	12V
CFJA	2K, 2C, 2.0 TDI	05/12	05/15	<b>B-132</b>		3	4.4V	12V

## CADDY IV

CAYD, CAYE	SA, 1.6 TDI	05/15		<b>B-132</b>		4	4.4V	12V
CFHC, CFHF	SA, 2.0 TDI 4motion	05/15		<b>B-132</b>		4	4.4V	12V
CFHC, CLCB	SA, 2.0 TDI	05/15		<b>B-132</b>		4	4.4V	12V
CUUB, CUUD, CUUF, DFSB, DFSC, DFSD, DFSF	SA, 2.0 TDI	05/15		<b>B-132</b>		3	4.4V	12V
CUUE, DFSB, DFSC, DFSE	SA, 2.0 TDI 4motion	05/15		<b>B-132</b>		3	4.4V	12V

## CC

CFFA, CFFB, CFGB, CLLA	358, 2.0 TDI	11/11	12/16	<b>B-132</b>		4	4.4V	12V
CFFB, CFGB	358, 2.0 TDI 4motion	11/11	12/16	<b>B-132</b>		4	4.4V	12V
CFGC	358, 2.0 TDI 4motion	12/12	12/16	<b>B-132</b>		3	4.4V	12V
CFGC, CUVC, CUWA	358, 2.0 TDI	12/12	12/16	<b>B-132</b>		3	4.4V	12V

## CRAFTER

BJJ, CEBA	2.5 TDI	04/06	07/11	<b>B-133</b>	N10591604 N10591608	5	7V	
DAUA, DAUB, DAVA	2.0 TDI	09/16		<b>B-132</b>		3	4.4V	12V
DAVA	2.0 TDI 4motion	03/17		<b>B-132</b>		3	4.4V	12V

## CRAFTER 30-50

CKTB, CKTC, CKUB, CKUC, CSLA, CSLB, CSLC, CSNA	2E, 2F, 2.0 TDI	05/11	12/16	<b>B-132</b>		4	4.4V	12V
CKUB, CSNA	2E, 2F, 2.0 TDI 4motion	11/11	12/16	<b>B-132</b>		4	4.4V	12V

## EOS

CBAB, CFFA, CFFB	1F, 2.0 TDI	05/08	08/15	<b>B-132</b>		4	4.4V	12V
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## FOX

BNM	5Z, 1.4 TDI	04/05	12/09	<b>B-086</b>		3	11V	12V
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## GOLF I

CK	17155, 1.5 D	08/76	07/80	<b>B-080</b>		4	11V	12V
CR, JK	17155, 1.6 D	08/80	07/83	<b>B-080</b>		4	11V	12V
CY	17155, 1.6 TD	03/82	07/83	<b>B-080</b>		4	11V	12V










## GOLF II

1V	19, 1G, 1.6 TD	08/89	10/91	<b>B-080</b>		4	11V	12V
CS, JP, ME	19, 1G, 1.6 D	08/83	10/91	<b>B-080</b>		4	11V	12V
JR, MF, RA, SB	19, 1G, 1.6 TD	08/83	10/91	<b>B-080</b>		4	11V	12V

## GOLF III

1Y	1H, 1E, 1.9 D	11/91	04/99	<b>B-080</b>		4	11V	12V
1Z, AFN, AHU	1H, 1E, 1.9 TDI	09/93	04/99	<b>B-092</b>		3	11V	12V
1Z, AFN, AHU, ALE	1H, 1E, 1.9 TDI	09/93	04/99	<b>B-077</b>		4	11V	12V
1Z, AHU	1H, 1E, 1.9 TDI Syncro	07/95	04/99	<b>B-092</b>		3	11V	12V
1Z, AHU, ALE	1H, 1E, 1.9 TDI Syncro	07/95	04/99	<b>B-077</b>		4	11V	12V
AAZ	1H, 1E, 1.9 TD	07/93	04/99	<b>B-080</b>		4	11V	12V
	1H, 1E, 1.9 TD, GTD	11/91	08/97	<b>B-080</b>		4	11V	12V

ENGINE	MODEL	M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>VOLKSWAGEN</b>								
<b>GOLF III</b>								
AEY	1H, 1E, 1.9 SDI	07/95	04/99	<b>B-077</b>		4	11V	12V
	1H, 1E, 1.9 SDI	07/95	04/99	<b>B-080</b>		3	11V	12V
<b>GOLF IV</b>								
AFN, AGR, AHF, AHU, AJM, ALE, ALH, ASV, AUY, AVG	1J, 1E, 1.9 TDI	08/97	05/06	<b>B-077</b>		4	11V	12V
AFN, AGR, AHF, AHU, AJM, ALH, ARL, ASV, ATD	1J, 1E, 1.9 TDI	08/97	06/06	<b>B-092</b>		3	11V	12V
AGP, AQM	1J, 1E, 1.9 SDI	08/97	06/06	<b>B-077</b>		4	11V	12V
	1J, 1E, 1.9 SDI	08/97	06/06	<b>B-092</b>		3	11V	12V
AGR, AJM, ARL, ATD	1J, 1E, 1.9 TDI 4motion	07/98	06/06	<b>B-092</b>		3	11V	12V
AGR, AJM, AUY	1J, 1E, 1.9 TDI 4motion	07/98	04/02	<b>B-077</b>		4	11V	12V
ARL	1J, 1E, 1.9 TDI	02/02	06/06	<b>B-086</b>		4	11V	12V
	1J, 1E, 1.9 TDI	05/00	02/02	<b>B-077</b>		4	11V	12V
	1J, 1E, 1.9 TDI 4motion	02/00	02/02	<b>B-077</b>		4	11V	12V
	1J, 1E, 1.9 TDI 4motion	02/02	06/05	<b>B-086</b>		4	11V	12V
	1J, 1E, 1.9 TDI 4motion	05/02	06/05	<b>B-086</b>		4	11V	12V
ASZ, ATD	1J, 1E, 1.9 TDI 4motion	02/02	06/06	<b>B-086</b>		4	11V	12V
	1J, 1E, 1.9 TDI 4motion	09/00	02/02	<b>B-077</b>		4	11V	12V
ASZ, ATD, AXR	1J, 1E, 1.9 TDI	02/02	06/06	<b>B-086</b>		4	11V	12V
	1J, 1E, 1.9 TDI	09/00	02/02	<b>B-077</b>		4	11V	12V
<b>GOLF V</b>								
AZV, BKD	1K, 2.0 TDI	10/03	07/09	<b>PM-405</b>		4	4.4V	12V
BKD	1K, 2.0 TDI 4motion	08/04	11/08	<b>PM-405</b>		4	4.4V	12V
BMN	1K, 2.0 TDI	11/05	11/08	<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)	4	7V	12V
CBDB	1K, 2.0 TDI	06/07	07/09	<b>B-132</b>		4	4.4V	12V
<b>GOLF V PLUS</b>								
BKC, BLS, BXE	1.9 TDI	05/01	01/09	<b>B-133</b>	N10591604 N10591608	4	7V	
<b>GOLF VI</b>								
CAYB	5K, AJ5, 1.6 TDI	02/09	07/13	<b>B-132</b>		4	4.4V	12V
CAYC	5K, AJ5, 1.6 TDI (BlueMotion)	02/09	07/13	<b>B-132</b>		4	4.4V	12V
	5K, AJ5, 1.6 TDI 4motion	07/09	07/13	<b>B-132</b>		4	4.4V	12V
CBAA, CBAB, CBBB, CBDA, CBDB, CBDC, CFFA, CFFB, CFGB, CFHB, CFHC, CLCA, CLCB	5K, AJ5, 2.0 TDI	10/08	07/13	<b>B-132</b>		4	4.4V	12V
CBAB, CFFB	5K, AJ5, 2.0 TDI 4motion	05/09	11/12	<b>B-132</b>		4	4.4V	12V
<b>GOLF VI Convertible</b>								
CAYC	517, 1.6 TDI	03/11	05/16	<b>B-132</b>		4	4.4V	12V
CFHC	517, 2.0 TDI	11/11	05/16	<b>B-132</b>		4	4.4V	12V
CUUA, CUUB	517, 2.0 TDI	11/13	05/16	<b>B-132</b>		3	4.4V	12V
<b>GOLF VII</b>								
CKFC, CRBC, CRLB, CRMB, CRUA, DCYA, DEJA, DFGA	5G, BA5, 2.0 TDI (BlueMotion)	11/12		<b>B-132</b>		3	4.4V	12V
CKFC, CRBC, CRLB, CRMB, DCYA	5G, BA5, 2.0 TDI 4motion (BlueMotion)	11/12		<b>B-132</b>		3	4.4V	12V
CLHA	5G, BA5, 1.6 TDI 4motion (BlueMotion)	11/12		<b>B-132</b>		3	4.4V	12V
CLHA, CLHB, CRKA, CRKB, CXXA, CXXB, DBKA, DDYB	5G, BA5, 1.6 TDI (BlueMotion)	08/12		<b>B-132</b>		3	4.4V	12V
CRBB, CRLD, CRVA, CRVC, CYKB, DCYB, DEJB	5G, BA5, 2.0 TDI	08/12		<b>B-132</b>		3	4.4V	12V
CRBB, CRLD, CRVA, CRVC, CYKB, DCYB, DEJB	5G, BA5, 2.0 TDI	08/12		<b>B-132</b>		4	4.4V	12V
CRKB, CXXB	5G, BA5, 1.6 TDI 4motion	01/13		<b>B-132</b>		3	4.4V	12V
CUNA, DGCA	5G, BA5, 2.0 TDI 4motion	12/14		<b>B-132</b>		3	4.4V	12V

 ENGINE		 MODEL		 M/Y START		 M/Y END		 HKT No.		 REFERENCE No.		 CYL		 P.V.		 B.V.	
<b>VOLKSWAGEN</b>																	
<b>GOLF VII</b>																	
CUNA, DGCA, DJGA		5G, BA5, 2.0 GTD		04/13				<b>B-132</b>				3		4.4V		12V	
<b>GOLF Plus</b>																	
AZV, BEE, BKD		5M, 521, 2.0 TDI		01/05		12/13		<b>PM-405</b>				4		4.4V		12V	
CAYB, CAYC		5M, 521, 1.6 TDI		02/09		12/13		<b>B-132</b>				4		4.4V		12V	
CBDA, CBDB, CBDC, CFHB, CFHC, CLCA		5M, 521, 2.0 TDI		01/05		12/13		<b>B-132</b>				4		4.4V		12V	
<b>GOLF Sportsvan</b>																	
CRKA, CRKB, CXXA, CXXB, DBKA, DDYB		AM1, 1.6 TDI		02/14				<b>B-132</b>				3		4.4V		12V	
CRLB, DCYA, DFGA		AM1, 2.0 TDI		02/14				<b>B-132</b>				3		4.4V		12V	
CRLD, CRVA, DCYB		AM1, 2.0 TDI		05/14				<b>B-132</b>				3		4.4V		12V	
		AM1, 2.0 TDI		05/14				<b>B-132</b>				4		4.4V		12V	
<b>ILTIS</b>																	
1C		183, 1.6 TD		08/87		12/88		<b>B-080</b>				4		11V		12V	
<b>JETTA I</b>																	
CK		16, 1.5 D		08/78		07/80		<b>B-080</b>				4		11V		12V	
CR, JK		16, 1.6 D		08/80		02/84		<b>B-080</b>				4		11V		12V	
CY		16, 1.6 TD		03/82		02/84		<b>B-080</b>				4		11V		12V	
<b>JETTA II</b>																	
1V		19, 1G, 1.6 TD		01/90		10/91		<b>B-080</b>				4		11V		12V	
JP, ME		19, 1G, 1.6 D		01/84		10/91		<b>B-080</b>				4		11V		12V	
JR, MF, RA, SB		19, 1G, 1.6 TD		01/84		10/91		<b>B-080</b>				4		11V		12V	
<b>JETTA III</b>																	
AZV, BKD		1K2, 2.0 TDI		08/05		10/10		<b>PM-405</b>				4		4.4V		12V	
BMN		1K2, 2.0 TDI		10/06		10/10		<b>PM-406</b>		N 105 798 03, N 105 798 05 (CERAMIC)		4		7V		12V	
CAYB, CAYC		1K2, 1.6 TDI		06/09		10/10		<b>B-132</b>				4		4.4V		12V	
CBDA, CBDB, CBEA, CEGA		1K2, 2.0 TDI		08/05		10/10		<b>B-132</b>				4		4.4V		12V	
<b>JETTA IV</b>																	
CAYC		162, 1.6 TDI		04/10		07/14		<b>B-132</b>				4		4.4V		12V	
CFFB, CFHC, CLCA, CLCB, CUUA		162, 2.0 TDI		10/10				<b>B-132</b>				4		4.4V		12V	
CUUB, DELA, DGMA		162, 2.0 TDI		08/14				<b>B-132</b>				3		4.4V		12V	
<b>LT 28-35 I</b>																	
1G		281-363, 2.4 TD		08/88		08/92		<b>B-080</b>				6		11V		12V	
1S		281-363, 2.4 D Syncro		08/91		07/92		<b>B-080</b>				6		11V		12V	
1S, ACT		281-363, 2.4 D		08/89		06/96		<b>B-080</b>				6		11V		12V	
ACL		281-363, 2.4 TD Syncro		08/92		04/96		<b>B-080</b>				6		11V		12V	
ACL, DV		281-363, 2.4 TD		12/82		06/96		<b>B-080</b>				6		11V		12V	
CG		281-363, 2.7 D		11/75		01/80		<b>B-080</b>				4		11V		12V	
CP, DW		281-363, 2.4 D		12/78		07/92		<b>B-080</b>				6		11V		12V	
DW		281-363, 2.4 D		08/91		07/92		<b>B-080</b>				6		11V		12V	
		281-363, 2.4 D Syncro		08/91		07/92		<b>B-080</b>				6		11V		12V	
<b>LT 28-35 II</b>																	
AGX		2D, 2.5 SDI		07/96		07/06		<b>B-077</b>				5		11V		12V	
AHD, ANJ, APA, AVR, BBE, BBF		2D, 2.5 TDI		05/96		07/06		<b>B-077</b>				5		11V		12V	
<b>LT 28-46 II</b>																	
AGX		2D, 2.5 SDI		09/96		07/06		<b>B-077</b>				5		11V		12V	
AHD, ANJ, APA, AVR, BBE, BBF		2D, 2.5 TDI		05/96		07/06		<b>B-077</b>				5		11V		12V	
<b>LT 28-50 I</b>																	
		281-363, 2.4 D		08/91		07/92		<b>B-080</b>				6		11V		12V	
		281-363, 2.4 TD		12/82		07/92		<b>B-080</b>				6		11V		12V	
<b>LT 40-55 I</b>																	
1G		2.4 TD		08/88		08/92		<b>B-080</b>				6		11V		12V	
		2.4 TD Syncro		08/91		07/92		<b>B-080</b>				6		11V		12V	
1S, ACT		2.4 D		07/90		06/96		<b>B-080</b>				6		11V		12V	
ACL, DV		2.4 TD		12/82		06/96		<b>B-080</b>				6		11V		12V	
		2.4 TD Syncro		08/91		04/96		<b>B-080</b>				6		11V		12V	



ENGINE		MODEL		M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>VOLKSWAGEN</b>										
<b>LT 40-55 I</b>										
CP, DW	2.4 D	12/78	07/92	<b>B-080</b>				6	11V	12V
DV	2.4 TD 4WD	08/78	07/92	<b>B-080</b>				6	11V	12V
DW	2.4 D 4WD	01/79	03/86	<b>B-080</b>				6	11V	12V
<b>LUPO</b>										
AKU	6X, 6E, 1.7 SDI	09/98	07/05	<b>B-077</b>				4	11V	12V
AMF	6X, 6E, 1.4 TDI	01/99	07/01	<b>B-077</b>				3	11V	12V
	6X, 6E, 1.4 TDI	07/01	07/05	<b>B-086</b>				3	11V	12V
ANY	6X, 6E, 1.2 TDI 3L	07/99	07/05	<b>B-086</b>				3	11V	12V
AYZ	6X, 6E, 1.2 TDI 3L	07/01	07/05	<b>B-086</b>				3	11V	12V
	6X, 6E, 1.2 TDI 3L	07/99	07/01	<b>B-077</b>				3	11V	12V
<b>MULTIVAN V</b>										
AXB, AXC	7H, 7E, 1.9 TDI	04/03	11/09	<b>B-086</b>				4	11V	12V
AXD	7H, 7E, 2.5 TDI	04/03	11/09	<b>B-086</b>				5	11V	12V
	7H, 7E, 2.5 TDI 4motion	07/04	11/09	<b>B-086</b>				5	11V	12V
AXE	7H, 7E, 2.5 TDI 4motion	07/04	11/09	<b>B-086</b>				5	11V	12V
AXE, BLJ	7H, 7E, 2.5 TDI	04/03	11/09	<b>B-086</b>				5	11V	12V
CAAA, CAAB, CAAC, CAAD, CAAE, CCHA, CCHB	7H, 7E, 2.0 TDI	09/09	08/15	<b>B-132</b>				4	4.4V	12V
CAAC, CAAE, CCHA, CCHB	7H, 7E, 2.0 TDI 4motion	09/09	08/15	<b>B-132</b>				4	4.4V	12V
CFCA	7H, 7E, 2.0 BiTDI	09/09	08/15	<b>B-132</b>				4	4.4V	12V
	7H, 7E, 2.0 BiTDI 4motion	09/09	08/15	<b>B-132</b>				4	4.4V	12V
<b>MULTIVAN VI</b>										
CAAB, CAAC, CFCA	SG, 2.0 TDI	04/15		<b>B-132</b>				4	4.4V	12V
CAAC, CFCA	SG, 2.0 TDI 4motion	06/15		<b>B-132</b>				4	4.4V	12V
CXEB, CXFA, CXGA, CXGB, CXHA, CXHB	SG, 2.0 TDI	04/15		<b>B-132</b>				3	4.4V	12V
CXEB, CXFA, CXHA	SG, 2.0 TDI 4motion	06/15		<b>B-132</b>				3	4.4V	12V
<b>NEW BEETLE</b>										
ALH	9C, 1C, 1Y, 1.9 TDI	01/98	06/04	<b>B-077</b>				4	11V	12V
ALH, ATD	9C, 1C, 1Y, 1.9 TDI	01/98	09/10	<b>B-092</b>				3	11V	12V
ATD	9C, 1C, 1Y, 1.9 TDI	02/01	10/01	<b>B-077</b>				4	11V	12V
	9C, 1C, 1Y, 1.9 TDI	11/01	09/10	<b>B-086</b>				4	11V	12V
AXR, BSW	9C, 1C, 1Y, 1.9 TDI	06/03	09/10	<b>B-086</b>				4	11V	12V
<b>PASSAT</b>										
BMP	2.0 TDI	03/05	05/09	<b>B-133</b>	N10591604 N10591608			4	7V	
1Y	3A2, 35I, 1.9 D	05/89	10/93	<b>B-080</b>				4	11V	12V
1Z	32B, 1.9 D	04/88	07/91	<b>B-077</b>				4	11V	12V
	32B, 1.9 D	04/88	07/91	<b>B-092</b>				3	11V	12V
1Z, AFN, AHU	3A2, 35I, 1.9 TDI	10/93	05/97	<b>B-077</b>				4	11V	12V
	3A2, 35I, 1.9 TDI	10/93	05/97	<b>B-092</b>				3	11V	12V
AAZ	3A2, 35I, 1.9 TD	03/91	05/97	<b>B-080</b>				4	11V	12V
AFB, AKN	3B2, 3B5, 2.5 TDI	07/98	11/00	<b>B-111</b>				6	11V	12V
	3B2, 3B5, 2.5 TDI Syncro/4motion	12/98	11/00	<b>B-111</b>				6	11V	12V
AFB, AKN, BAU, BDH	3B3, 3B6, 2.5 TDI 4motion	11/00	05/05	<b>B-111</b>				6	11V	12V
AFB, AKN, BDG	3B3, 3B6, 2.5 TDI	11/00	05/05	<b>B-111</b>				6	11V	12V
AFN	3B2, 3B5, 1.9 TDI Syncro/4motion	10/96	11/00	<b>B-092</b>				3	11V	12V
AFN, AHH, AHU, AJM, ATJ, AVB, AVG	3B2, 3B5, 1.9 TDI	10/96	11/00	<b>B-077</b>				4	11V	12V
AFN, AHU, AJM	3B2, 3B5, 1.9 TDI	10/96	11/00	<b>B-092</b>				3	11V	12V
AFN, AVG	3B2, 3B5, 1.9 TDI Syncro/4motion	10/96	11/00	<b>B-077</b>				4	11V	12V
ATJ	3B2, 3B5, 1.9 TDI 4motion	08/99	11/00	<b>B-077</b>				4	11V	12V
AVB, AVF, AWX	3B3, 3B6, 1.9 TDI	01/02	05/05	<b>B-086</b>				4	11V	12V
	3B3, 3B6, 1.9 TDI	11/00	01/02	<b>B-077</b>				4	11V	12V
AVF	3B3, 3B6, 1.9 TDI 4motion	01/02	05/05	<b>B-086</b>				4	11V	12V
	3B3, 3B6, 1.9 TDI 4motion	11/00	01/02	<b>B-077</b>				4	11V	12V
BKP	3C, 2.0 TDI 4motion	05/07	11/10	<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)			4	7V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## VOLKSWAGEN

## PASSAT

BKP, BMA, BMR, BUZ, BVE, BWV	3C, 2.0 TDI	08/05	11/10	<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)	4	7V	12V
CAYC	362365, 1.6 TDI (BlueMotion)	08/10	12/14	<b>B-132</b>		4	4.4V	12V
	3C, 1.6 TDI	08/09	11/10	<b>B-132</b>		4	4.4V	12V
CBAA, CBAB, CBBB, CBDC	3C, 2.0 TDI	03/05	11/10	<b>B-132</b>		4	4.4V	12V
CBAB, CBBB	3C, 2.0 TDI 4motion	03/05	11/10	<b>B-132</b>		4	4.4V	12V
CBAC	3C, 2.0 BlueTDI	01/09	11/10	<b>B-132</b>		4	4.4V	12V
CFFA	362365, 2.0 TDI	08/10	12/14	<b>B-132</b>		4	4.4V	12V
CFFB, CFGB	362365, 2.0 TDI 4motion	08/10	12/14	<b>B-132</b>		4	4.4V	12V
CFFB, CFGB, CLLA	362365, 2.0 TDI (BlueMotion)	08/10	12/14	<b>B-132</b>		4	4.4V	12V
CFGB, CFGC	362365, 2.0 TDI 4motion	01/12	12/14	<b>B-132</b>		3	4.4V	12V
CFGC	362365, 2.0 TDI	12/12	12/14	<b>B-132</b>		3	4.4V	12V
CK	32, 33, 1.5 D	02/77	07/80	<b>B-080</b>		4	11V	12V
CR	32, 33, 1.6 D	02/79	07/80	<b>B-080</b>		4	11V	12V
CR, JK	32B, 1.6 D	08/80	03/88	<b>B-080</b>		4	11V	12V
CRLB, CUAA, CUPA, DDAA, DFCA, DFEA, DFHA	3G, 2.0 TDI 4motion	08/14		<b>B-132</b>		3	4.4V	12V
CRLB, CUPA, DBGA, DDAA, DFCA, DFGA, DFHA	3G, 2.0 TDI	11/14		<b>B-132</b>		3	4.4V	12V
CY, RA	32B, 1.6 TD	04/82	03/88	<b>B-080</b>		4	11V	12V
DCXA, DCZA	3G, 1.6 TDI	08/14		<b>B-132</b>		3	4.4V	12V
RA, SB	3A2, 35I, 1.6 TD	08/88	09/93	<b>B-080</b>		4	11V	12V

## PASSAT CC

CBAA, CBAB, CBBA, CBBB, CFFA, CFFB, CFGB, CLLA	357, 2.0 TDI	05/08	01/12	<b>B-132</b>		4	4.4V	12V
CBAB, CBBB, CFFB, CFGB	357, 2.0 TDI 4motion	08/09	01/12	<b>B-132</b>		4	4.4V	12V
CBAC	357, 2.0 BlueTDI	05/09	11/10	<b>B-132</b>		4	4.4V	12V

## PHAETON

AJS	3D, 5.0 V10 TDI 4motion	11/02	10/06	<b>B-086</b>		10	11V	12V
BMK, CARA, CARB, CEXA, CEXB	3D, 3.0 V6 TDI 4motion	09/04	03/16	<b>B-132</b>		6	4.4V	12V

## POLO

1W	86C, 80, 1.4 D	08/90	09/94	<b>B-080</b>		4	11V	12V
AEF	6N1, 1.9 D	10/94	10/99	<b>B-080</b>		4	11V	12V
	6N2, 1.9 D	10/99	09/01	<b>B-080</b>		4	11V	12V
AGD	6N1, 1.9 SDI	07/96	10/99	<b>B-077</b>		4	11V	12V
AGD, ASX	6N2, 1.9 SDI	10/99	09/01	<b>B-077</b>		4	11V	12V
AHG, AKU	6N1, 1.7 SDI	04/97	10/99	<b>B-077</b>		4	11V	12V
AKU	6N2, 1.7 SDI	10/99	09/01	<b>B-077</b>		4	11V	12V
AMF	6N2, 1.4 TDI	10/99	09/01	<b>B-077</b>		3	11V	12V
AMF, BAY, BNM, BNV	9N, 1.4 TDI	10/01	11/09	<b>B-086</b>		3	11V	12V
ASY	9N, 1.9 SDI	10/01	11/09	<b>B-077</b>		4	11V	12V
ASZ, ATD, AXR, BLT	9N, 1.9 TDI	10/01	11/09	<b>B-086</b>		4	11V	12V
ATD	9N, 1.9 TDI	10/01	11/09	<b>B-092</b>		3	11V	12V
CAYA, CAYC, CLNA	6R, 6C, 1.6 TDI	06/09		<b>B-132</b>		4	4.4V	12V
CAYB	6R, 6C, 1.6 TDI (BlueMotion)	06/09		<b>B-132</b>		4	4.4V	12V
CFWA	6R, 6C, 1.2 TDI (BlueMotion)	10/09		<b>B-132</b>		3	4.4V	12V
CUSA, CUSB, CUTA, CYZA, CYZB	6R, 6C, 1.4 TDI	02/14		<b>B-132</b>		2	4.4V	12V
MN	86C, 80, 1.3 D	08/86	08/90	<b>B-080</b>		4	11V	12V

## POLO Classic

1Y	6KV, 1.9 D	01/96	10/96	<b>B-080</b>		4	11V	12V
AEY	6KV, 1.9 SDI	12/95	09/01	<b>B-080</b>		3	11V	12V
AEY, AGP, AQM	6KV, 1.9 SDI	12/95	01/02	<b>B-077</b>		4	11V	12V

ENGINE	MODEL	M/Y START	M/Y END	HKT No.	REFERENCE No.	CYL	P.V.	B.V.
<b>VOLKSWAGEN</b>								
<b>POLO Classic</b>								
AFN, AGR, AHU, ALE, ALH, ASV	6KV, 1.9 TDI	09/96	01/02	<b>B-077</b>		4	11V	12V
AFN, AGR, AHU, ALH, ASV	6KV, 1.9 TDI	09/96	01/02	<b>B-092</b>		3	11V	12V
AGP, AQM	6KV, 1.9 SDI	08/99	01/02	<b>B-092</b>		3	11V	12V
AKW	6KV, 1.7 SDI	07/97	09/01	<b>B-077</b>		4	11V	12V
<b>POLO Saloon</b>								
ATD	9A4, 1.9 TDi	09/02		<b>B-086</b>		4	11V	12V
	9A4, 1.9 TDi	09/02		<b>B-092</b>		3	11V	12V
<b>POLO Variant</b>								
AEY	6V5, 1.9 SDI	06/97	09/01	<b>B-080</b>		3	11V	12V
AEY, AGP, AQM	6V5, 1.9 SDI	06/97	09/01	<b>B-077</b>		4	11V	12V
AFN, AGR, AHU, ALE, ALH, ASV	6V5, 1.9 TDI	05/97	09/01	<b>B-077</b>		4	11V	12V
AFN, AGR, AHU, ALH, ASV	6V5, 1.9 TDI	05/97	09/01	<b>B-092</b>		3	11V	12V
AGP, AQM	6V5, 1.9 SDI	08/99	09/01	<b>B-092</b>		3	11V	12V
AKW	6V5, 1.7 SDI	08/97	09/01	<b>B-077</b>		4	11V	12V
<b>SANTANA</b>								
CR, JK	1.6 D	08/81	12/84	<b>B-080</b>		4	11V	12V
CY	1.6 TD	12/81	12/84	<b>B-080</b>		4	11V	12V
<b>SCIROCCO</b>								
CBBB, CBDB, CFGB, CFHB, CFHC	137, 138, 2.0 TDI	08/08	11/17	<b>B-132</b>		4	4.4V	12V
CFGC, CUUB, CUWA, CUXA	137, 138, 2.0 TDI	01/13	11/17	<b>B-132</b>		3	4.4V	12V
<b>SHARAN</b>								
1Z, AFN, AHU	7M, 1.9 TDI	09/95	03/10	<b>B-092</b>		3	11V	12V
1Z, AFN, AHU, AVG	7M, 1.9 TDI	09/95	03/10	<b>B-077</b>		4	11V	12V
ANU, AUY, BVK	7M, 1.9 TDI	09/95	10/01	<b>B-077</b>		4	11V	12V
	7M, 1.9 TDI	10/01	03/10	<b>B-086</b>		4	11V	12V
ASZ, BTB	7M, 1.9 TDI	11/02	03/10	<b>B-086</b>		4	11V	12V
AUY, BVK	7M, 1.9 TDI 4motion	04/00	10/01	<b>B-077</b>		4	11V	12V
	7M, 1.9 TDI 4motion	10/01	03/10	<b>B-086</b>		4	11V	12V
CFFA, CFFB, CFFE, CFGB	7N, 2.0 TDI	05/10		<b>B-132</b>		4	4.4V	12V
CFFB	7N, 2.0 TDI 4motion	05/11		<b>B-132</b>		4	4.4V	12V
CFGC, CUVA, CUVC, CUWA, DFLA, DFLD, DFMA, DLUB	7N, 2.0 TDI	05/11		<b>B-132</b>		3	4.4V	12V
CUVC, DFLA, DFMA	7N, 2.0 TDI 4motion	05/15		<b>B-132</b>		3	4.4V	12V
<b>TARO</b>								
2L	2.4 D	06/89	03/97	<b>PT-155</b>		4	11V	12V
	2.4 D 4x4	04/89	03/97	<b>PT-155</b>		4	11V	12V
<b>TIGUAN</b>								
CBAA, CBAB, CBBA, CBBB, CFFA, CFFB, CFGB, CLJA	5N, 2.0 TDI 4motion	09/07	07/18	<b>B-132</b>		4	4.4V	12V
CBAB, CFFB, CFFD, CUVE	5N, 2.0 TDI	03/08	07/18	<b>B-132</b>		4	4.4V	12V
CFGC, CUVC, CUWA	5N, 2.0 TDI 4motion	11/12	07/18	<b>B-132</b>		3	4.4V	12V
CUAA, DBGCC, DFGA	AD, 2.0 TDI 4motion	01/16		<b>B-132</b>		3	4.4V	12V
CUVC	5N, 2.0 TDI	05/15	07/18	<b>B-132</b>		3	4.4V	12V
DFGA, DFGC	AD, 2.0 TDI	01/16		<b>B-132</b>		3	4.4V	12V
DFHA	AD, 2.0 TDI 4motion	04/16		<b>B-132</b>		3	4.4V	12V
	AD, 2.0 TDI 4motion	04/16		<b>B-132</b>		4	4.4V	12V
DGDB	AD, 1.6 TDI	05/16		<b>B-132</b>		3	4.4V	12V
<b>TOUAREG</b>								
AYH	7L, 5.0 V10 TDI	10/02	05/10	<b>B-086</b>		10	11V	12V
BAC	7L, 2.5 R5 TDI	01/03	05/10	<b>B-086</b>		5	11V	12V
BKS, CASA, CASC	7L, 3.0 V6 TDI	11/04	05/10	<b>B-132</b>		6	4.4V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

## VOLKSWAGEN

## TOUAREG

BLK	7L, 2.5 R5 TDI	08/03	05/10	<b>B-086</b>		5	11V	12V
BUN, CASB	7L, 3.0 TDI	04/06	05/10	<b>B-132</b>		6	4.4V	12V
CASA, CASD, CJGD, CJMA, CRCA, CRCD, CVVA, CVWA	7P, 3.0 V6 TDI	01/10	03/18	<b>B-132</b>		6	4.4V	12V
CATA	7L, 3.0 V6 TDI	11/04	05/10	<b>B-132</b>		4	4.4V	12V
	7P, 3.0 V6 TDI	06/10	03/18	<b>B-132</b>		4	4.4V	12V
CKDA	7P, 4.2 V8 TDI	01/10	03/18	<b>B-132</b>		8	4.4V	12V

## TOURAN

AZV, BKD	1T1, 1T2, 2.0 TDI	02/03	05/10	<b>PM-405</b>		4	4.4V	12V
BMN	1T1, 1T2, 2.0 TDI	12/05	05/10	<b>PM-406</b>	N 105 798 03, N 105 798 05 (CERAMIC)	4	7V	12V
CAYB, CAYC	1T3, 1.6 TDI	05/10	05/15	<b>B-132</b>		4	4.4V	12V
CFHC, CFHF, CFJA, CLCA	1T3, 2.0 TDI	05/10	05/15	<b>B-132</b>		4	4.4V	12V
CFJB	1T3, 2.0 TDI	01/13	05/15	<b>B-132</b>		3	4.4V	12V
CRKB, DGDA	5T, 1.6 TDI	05/15		<b>B-132</b>		3	4.4V	12V
DFEA, DFGA	5T, 2.0 TDI	05/15		<b>B-132</b>		3	4.4V	12V
DFHA	5T, 2.0 TDI	11/15	07/19	<b>B-132</b>		3	4.4V	12V
	5T, 2.0 TDI	11/15	07/19	<b>B-132</b>		4	4.4V	12V

## TRANSPORTER III

CS	1.6 D	01/81	07/87	<b>B-080</b>		4	11V	12V
JX	1.6 TD	08/84	07/92	<b>B-080</b>		4	11V	12V
	1.6 TD Syncro	03/86	07/92	<b>B-080</b>		4	11V	12V
KY	1.7 D	08/84	07/92	<b>B-080</b>		4	11V	12V

## TRANSPORTER IV

1X	70X, 7D, 1.9 D	07/90	12/95	<b>B-080</b>		4	11V	12V
AAB	70X, 7D, 2.4 D	07/90	04/98	<b>B-080</b>		5	11V	12V
	70X, 7D, 2.4 D Syncro	10/92	09/98	<b>B-080</b>		5	11V	12V
ABL	70X, 7D, 1.9 TD	10/92	04/03	<b>B-080</b>		4	11V	12V
ACV, AHY, AUF, AXG, AYC	70X, 7D, 2.5 TDI	09/95	04/03	<b>B-077</b>		5	11V	12V
ACV, AXL	70X, 7D, 2.5 TDI Syncro	09/95	04/03	<b>B-077</b>		5	11V	12V
AJA	70X, 7D, 2.4 D	08/97	04/03	<b>B-080</b>		5	11V	12V
AJT, AXG, AYY	70X, 7D, 2.5 TDI	05/98	04/03	<b>B-077</b>		5	11V	12V

## TRANSPORTER V

AXB, AXC	7H, 7E, 7J, 1.9 TDI	04/03	11/09	<b>B-086</b>		4	11V	12V
AXD	7H, 7E, 7J, 2.5 TDI	04/03	11/09	<b>B-086</b>		5	11V	12V
	7H, 7E, 7J, 2.5 TDI 4motion	07/04	11/09	<b>B-086</b>		5	11V	12V
AXD, AXE	7H, 7E, 7J, 2.5 TDI 4motion	05/03	08/15	<b>B-086</b>		5	11V	12V
AXD, AXE, BLJ	7H, 7E, 7J, 2.5 TDi	04/03	08/15	<b>B-086</b>		5	11V	12V
CAAA, CAAB, CAAC, CAAD, CAAE, CCHA, CCHB	7H, 7E, 7J, 2.0 TDI	09/09	08/15	<b>B-132</b>		4	4.4V	12V
CAAC, CAAE, CCHA, CCHB	7H, 7E, 7J, 2.0 TDI 4motion	09/09	08/15	<b>B-132</b>		4	4.4V	12V
CFCA	7H, 7E, 7J, 2.0 BiTDI	09/09	08/15	<b>B-132</b>		4	4.4V	12V
	7H, 7E, 7J, 2.0 BiTDI 4motion	09/09	08/15	<b>B-132</b>		4	4.4V	12V

## TRANSPORTER VI

CAAA, CAAB, CAAC, CFCA	SF, SG, 2.0 TDI	04/15		<b>B-132</b>		4	4.4V	12V
CAAC, CFCA	SF, SG, 2.0 TDI 4motion	06/15		<b>B-132</b>		4	4.4V	12V
CAAC, CXEB, CXFA, CXGA, CXGB, CXHA, CXHB	SF, SG, 2.0 TDI	04/15		<b>B-132</b>		3	4.4V	12V
CAAC, CXEB, CXFA, CXHA	SF, SG, 2.0 TDI 4motion	06/15		<b>B-132</b>		3	4.4V	12V

## TRANSPORTER T5

	2.5 TDI	01/06		<b>B-133</b>	N10591604 N10591608	5	7V	
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## VENTO

1Y	1H2, 1.9 D	11/91	09/98	<b>B-080</b>		4	11V	12V
1Z, AFN, AHU	1H2, 1.9 TDI	09/93	09/98	<b>B-092</b>		3	11V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**VOLKSWAGEN****VENTO**

1Z, AFN, AHU, ALE	1H2, 1.9 TDI	09/93	09/98	<b>B-077</b>		4	11V	12V
AAZ	1H2, 1.9 TD	11/91	09/98	<b>B-080</b>		4	11V	12V
AEY	1H2, 1.9 SDI	04/97	09/98	<b>B-077</b>		4	11V	12V
	1H2, 1.9 SDI	04/97	09/98	<b>B-080</b>		3	11V	12V

**VOLVO****240**

D 24	2.4 Diesel	08/78	08/93	<b>B-080</b>		6	11V	12V
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**340-360**

D 16	1.6 Diesel	08/84	07/91	<b>B-081</b>		4	11V	12V
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**440**

D 19 T	1.9 Turbo Diesel	07/94	12/96	<b>B-080</b>		4	11V	12V
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**460**

D 19 T	1.9 Turbo Diesel	07/94	07/96	<b>B-080</b>		4	11V	12V
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**740**

D 24	2.4 Diesel	08/84	07/92	<b>B-080</b>		6	11V	12V
D 24 T	2.4 Turbo Diesel	09/85	07/92	<b>B-080</b>		6	11V	12V
D 24 TIC	2.4 TD Interc.	08/86	07/88	<b>B-080</b>		6	11V	12V

**760**

D 24	2.4 D	01/82	07/92	<b>B-080</b>		6	11V	12V
D 24 T	2.4 Turbo Diesel	08/82	07/92	<b>B-080</b>		6	11V	12V
D 24 TIC	2.4 TD Interc.	08/87	07/92	<b>B-080</b>		6	11V	12V

**850**

D 5252 T	2.5 TDI	08/95	12/96	<b>B-077</b>		5	11V	12V
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**940 I**

D 24	2.4 D	08/90	07/95	<b>B-080</b>		6	11V	12V
D 24 T	2.4 Turbo Diesel	08/90	12/94	<b>B-080</b>		6	11V	12V
D 24 TIC	2.4 TD Intercooler	08/90	12/94	<b>B-080</b>		6	11V	12V

**940 II**

D 24 TIC	2.4 TD Interc.	08/94	10/98	<b>B-080</b>		6	11V	12V
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**960 I**

D 24 TIC	2.4 TD Interc.	09/91	07/94	<b>B-080</b>		6	11V	12V
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**C30**

D 4162 T	1.6 D2	10/10	12/12	<b>PZ-711</b>		4	5V	12V
D 4164 T	1.6 D	10/06	12/12	<b>B-106</b>	30711106	4	11V	12V
	1.6 D	10/06	12/12	<b>B-123</b>	31216248	4	11V	12V
D 4204 T	2.0 D	10/06	12/12	<b>B-131</b>	30725069	4	11V	12V

**C70 II**

D 4204 T	2.0 D	01/08	10/09	<b>B-131</b>	30725069	4	11V	12V
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**S40 I**

D 4192 T	1.9 TD	07/95	08/99	<b>B-080</b>		4	11V	12V
D 4192 T2	1.9 DI	03/99	07/00	<b>B-096</b>		4	11V	12V
D 4192 T3, D 4192 T4	1.9 DI	07/00	12/03	<b>B-077</b>		4	11V	12V

**S40 II**

D 4162 T	1.6 D2	10/10	12/12	<b>PZ-711</b>		4	5V	12V
D 4164 T	1.6 D	01/05	12/12	<b>B-106</b>	30711106	4	11V	12V
	1.6 D	01/05	12/12	<b>B-123</b>	31216248	4	11V	12V
D 4204 T	2.0 D	01/04	12/10	<b>B-131</b>	30725069	4	11V	12V
D 4204 T2	2.0 CDI	07/05	12/06	<b>B-131</b>	30725069	4	11V	12V

**S60 I**

D 5244 T, D 5244 T4	2.4 D5	01/01	04/10	<b>B-134</b>	8631607	5	11V	12V
D 5244 T2	2.4 D	05/01	04/10	<b>B-134</b>	8631607	5	11V	12V
D 5244 T3	2.4 CDI	10/03	12/05	<b>B-134</b>	8631607	5	11V	12V

**S60 II**

D 4162 T	1.6 D2 (DRIVE)	01/11	12/15	<b>PZ-711</b>		4	5V	12V
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**S70**

D 5252 T	2.5 TDI	01/97	11/00	<b>B-077</b>		5	11V	12V
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**S80 I**

D 5244 T	2.4 D5	08/01	07/06	<b>B-134</b>	8631607	5	11V	12V
D 5244 T2	2.4 D	10/01	07/06	<b>B-134</b>	8631607	5	11V	12V
D 5252 T	2.5 TDI	01/99	07/06	<b>B-077</b>		5	11V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**VOLVO****S80 II**

D 4162 T	1.6 D DRIVE	06/11		<b>PZ-711</b>		4	5V	12V
D 4164 T	1.6 D DRIVE	01/10	12/11	<b>B-106</b>	30711106	4	11V	12V
	1.6 D DRIVE	01/10	12/11	<b>B-123</b>	31216248	4	11V	12V
D 4204 T	2.0 TDi	02/08	03/11	<b>B-131</b>	30725069	4	11V	12V
D 5244 T	2.4 D	03/06		<b>B-134</b>	8631607	5	11V	12V
D 5244 T4	2.4 D5	03/06		<b>B-134</b>	8631607	5	11V	12V
	2.4 D5 AWD	01/07		<b>B-134</b>	8631607	5	11V	12V

**V40**

D 4162 T	1.6 D2 (DRIVE)	03/12		<b>PZ-711</b>		4	5V	12V
D 4192 T	1.9 TD	07/95	08/99	<b>B-080</b>		4	11V	12V
D 4192 T2	1.9 DI	03/99	07/00	<b>B-096</b>		4	11V	12V
D 4192 T3, D 4192 T4	1.9 DI	07/00	06/04	<b>B-077</b>		4	11V	12V

**V50**

D 4162 T	1.6 D2	01/10	12/12	<b>PZ-711</b>		4	5V	12V
D 4164 T	1.6 D	01/05	12/11	<b>B-106</b>	30711106	4	11V	12V
	1.6 D	01/05	12/11	<b>B-123</b>	31216248	4	11V	12V
D 4204 T	2.0 D	04/04	12/10	<b>B-131</b>	30725069	4	11V	12V
D 4204 T2	2.0 CDI	12/03	12/06	<b>B-131</b>	30725069	4	11V	12V

**V60 I**

D 4162 T	1.6 D DRIVE	02/11	12/15	<b>PZ-711</b>		4	5V	12V
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**V70 I**

D 5252 T	2.5 TDI	12/95	12/00	<b>B-077</b>		5	11V	12V
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**V70 II**

D 5244 T, D 5244 T2, D 5244 T4	2.4 D5 AWD	07/02	08/07	<b>B-134</b>	8631607	5	11V	12V
D 5244 T, D 5244 T4	2.4 D5	01/01	12/08	<b>B-134</b>	8631607	5	11V	12V
D 5244 T2	2.4 D	07/01	08/07	<b>B-134</b>	8631607	5	11V	12V
D 5252 T	2.5 TDI	11/99	08/07	<b>B-077</b>		5	11V	12V

**V70 III**

D 4162 T	1.6 D2 (DRIVE)	04/11	12/15	<b>PZ-711</b>		4	5V	12V
D 4164 T	1.6 D	07/09	12/11	<b>B-106</b>	30711106	4	11V	12V
	1.6 D	07/09	12/11	<b>B-123</b>	31216248	4	11V	12V
D 4204 T	2.0 D	10/07	12/15	<b>B-131</b>	30725069	4	11V	12V
D 5244 T4	2.4 D5	04/07	12/09	<b>B-134</b>	8631607	5	11V	12V
	2.4 D5 AWD	04/07	12/09	<b>B-134</b>	8631607	5	11V	12V

**XC60 I**

D 5244 T4	2.4 D5 AWD	05/08	12/09	<b>B-134</b>	8631607	5	11V	12V
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**XC70 I Cross Country**

D 5244 T	2.4 D5 XC AWD	09/02	08/07	<b>B-134</b>	8631607	5	11V	12V
D 5244 T4	2.4 D5 AWD	12/05	08/07	<b>B-134</b>	8631607	5	11V	12V

**XC70 II**

D 5244 T4	2.4 D5 AWD	04/07	12/09	<b>B-134</b>	8631607	5	11V	12V
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**XC90 I**

D 5244 T, D 5244 T4	2.4 D5 AWD	10/02	12/10	<b>B-134</b>	8631607	5	11V	12V
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**YANMAR****COMBINE**

3TN63-U1C, 3TN66-U1C, 3TNA68-U1C, 3TNA72-U1C, 3TNA72-U2C	CA125, CA140, CA160, CA180, CA190			<b>PS-210</b>	129155-77801	3	10V	12V
3TN63U-NC, 3TN68U-C, 3TNA72-UBC, 3TNA72-UAC, 3TN75-RAC, 3TNA72-BC, 3TNA72-BIC, 3TNA72U	CA11R, CA15G, CA17DG, CA19DG, CA21DG, 185P, 185GP, 185H, 185GH, 200H, 200GH			<b>PS-210</b>	129155-77801	3	10V	12V
3TNA68U	CA15			<b>PS-210</b>	129155-77801	3	10V	12V
3TNA68U-C, 3TNA72-UBC, 3TNA75-RAC	CA15G, CA17G, CA17DT, CA19G, CA19DT, CA21G, CA21DT			<b>PS-210</b>	129155-77801	3	10V	12V



ENGINE



MODEL



M/Y START



M/Y END



HKT No.



REFERENCE No.



CYL



P.V.



B.V.

**YANMAR****CONSTRUCTION MACHINERY**

3TN66L-UKB	V1-1			<b>PS-210</b>	129155-77801	3	10V	12V
3TNA68L-U, 3TNA72L-U, 3TN63L-U, 3TN66L-U, 3TN72E				<b>PS-201</b>	129795-77800		10.5V	12V
3TNA72L-U2BX	B2X-1			<b>PS-201</b>	129795-77800	3	10.5V	12V
3TNA72L-UBA, 3TNA72L-UBB, 3TN66L-UB, 3TNE68L-UBA, 3TNE68L-UBB	B-08, B-12, B-17, Vio15, Vio20			<b>PS-210</b>	129155-77801	3	10V	12V

**GENERATOR**

3TN63L-USW, 3TN66L-UDW 3TN66E-UGB2, 3TN66E-UKB2 3TNA68L-USW, 3TNA68L-USW3 3TNA68L-USWD, 3TNA68L-USW2				<b>PS-201</b>	129795-77800	3	10.5V	12V
3TN66L-UGH, 3TN66L-UGCD				<b>PS-210</b>	129155-77801	3	10V	12V

**MARINE**

4JM-TZ, 4JM-TZ-A, 4JM-TZ-AM, 4JMZ 4JMZ-A, 4JMZ-AM, 4JME				<b>PS-201</b>	129795-77800	4	10.5V	12V
OMH1700				<b>PS-204</b>	15221-6551-3	4	10.5V	12V
OMH2600				<b>PS-204</b>	15221-6551-3	6	10.5V	12V

**TRACTOR**

3TN75-UA, 3TN75-UB 3TN80-U, 3TN82-U 3TN84-UA, 3TN84-UB 3TNB80U, 3TNB82U	F17, F18, F20, F22, F24, F24D, FX16, FX17, FX18, FX20, FX22, FX22D, FX24, FX24D, FF205, FF225, FF245, F195, FX195, FX215, FX235, FX235D			<b>PS-210</b>	129155-77801	3	10V	12V
3TNA68-UNK, 3TN66-U, 3TN66-UNK 3TN68-UNK, 3TN72-UNK	Ke-2, Ke-3, Ke-2A, Ke-3A, Ke-4A			<b>PS-210</b>	129155-77801	3	10V	12V
3TNA70UK, 3TNA70UN 3TNA72UN, 3TNA75UN	F13, F14, F15, F16, F17, FX17			<b>PS-210</b>	129155-77801	3	10V	12V
3TNA72, 3TN75	F5, F6, F7, F7D			<b>PS-210</b>	129155-77801	3	10V	12V
3TNA72-UIA, 3TNE74-UIA	AF-15, AF-16, AF-17, AF-18			<b>PS-210</b>	129155-77801	3	10V	12V
4TN78-UM, 4TN78-UP, 4TN78-UQ	FX26, FX28, FX32, FX42, FX42D			<b>PS-210</b>	129155-77801	4	10V	12V



# CROSS REFERENCE

ALFA ROMEO	HKT
116610535800	B-049
116760535801	B-049
4393814	B-081
4474413	B-081
46447610	B-084
46451951	B-108
46751764	B-119
46754154	B-109
46792355	B-125
46792359	B-125
4714294	B-081
4729585	B-081
4738576	B-081
4752281	B-081
4754011	B-081
4774412	B-081
4774413	B-081
4781356	B-081
4832279	B-097
4849466	B-081
60816139	B-108

AUDI	HKT
N10302101	B-092
N10302102	B-092

BMW	HKT
12231288245	B-081
12232240255	B-081
12232241387	B-081
12232241389	B-081
12232248059	B-104
12232248422	B-098
12237791101	PT-159
12237806041	B-123
12239061353	B-081
12239061354	B-081
1288245	B-081
2240255	B-081
2241387	B-081
2241389	B-081
2248059	B-104
2248422	B-098
7791101	PT-159
7806041	B-123
9061353	B-081
9061354	B-081

CATERPILLAR	HKT
3S9624X	PK-98
1P7324	PK-98

CHEVROLET	HKT
25181860	A-608
96440144	A-605
97364968	PA-306

CHRYSLER	HKT
05058011AD	B-099
05066840AA	B-127
05080046AA	B-099
05080047AB	B-099
05175756AA	B-129
4622162	B-127
4863826	B-086
5066840AA	B-127
5175756AA	B-129
68000913AA	PM-405
68096212AA	PM-405

CITROËN/ PEUGEOT	HKT
1607271880	B-124
1607849980	CP-08
1610419180	B-089
1610428980	B-081
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1610429280	B-106
1610429380	B-123
1610429480	B-131
1610429680	B-113
1610429780	B-101
1610429880	B-124
1610429980	B-097
1610430080	PM-403
1610433980	B-134
1612736680	PZ-711
1616060080	B-097
5493205	B-081
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596019	B-106
596034	B-078
596035	B-082
596040	PT-154
596064	B-131
596065	B-131
596066	B-089
596067	B-089
596068	B-087
596069	B-087
596071	B-097
596072	B-097
596076	B-134
596077	B-134
596078	B-123
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596088	B-101
596089	B-101
596099	B-124
5960A0	B-124
5960A3	PM-403
5960A4	PM-403
5960E6	PZ-711
5960E9	B-106
5960F4	B-131
5960F5	B-089

CITROËN/ PEUGEOT	HKT
5960F6	B-087
5960F8	B-134
5960F9	B-123
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5960H6	B-113
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5960K4	PM-403
5960K5	B-097
5960K6	PZ-711
596139	B-081
596140	B-081
596153	B-081
596157	B-081
596203	B-081
596208	B-081
59621P	B-113
59621Q	B-113
59621R	B-081
59621S	B-053
59621T	B-081
59621V	B-081
59621W	B-072
59621X	B-080
59621Y	B-081
59621Z	B-080
59622Y	B-087
59622Z	B-087
596235	B-081
59623C	B-089
59623E	B-089
59623H	B-081
59623J	B-081
59625A	B-097
596274	B-081
59627F	B-089
5962J2	B-081
5962J3	B-072
5962J4	B-081
5962J5	B-081
5962J6	B-081
5962J7	B-080
5962K5	B-081
5962R8	B-081
5962S8	B-081
5962T1	B-081
5962T2	B-080
5962T7	B-072
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5962W3	B-087
5962W8	B-081
7932567718	B-081
9150860280	B-080
9150861080	B-080

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9152184980	B-081
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96076258	B-072
96141678	B-081
9616572480	B-081
9637469980	B-106
9652548280	B-124
9675680980	PZ-713
9683195280	PZ-711
9686504380	PZ-711
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E161024	B-089
E161036	B-106
E161040	B-134
E161042	B-131
E161043	B-123
E161114	B-101
MKP00071	B-080

DACIA	HKT
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192618	B-081
494164	B-081

DAIHATSU	HKT
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19850-87702	PD-191
19850-87703	PD-192

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5951882	B-081
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60812292	B-081
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7702960	B-081
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7777837	B-072
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9651583680	B-131
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FU4A	B-081

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1008792	B-088
1037204	B-077
1056857	B-088
1079401	B-105
1096527	B-101
1148105	B-106
1207068	B-086
1207069	B-086
1309471	B-101
1313809	B-131
1369590	B-123
1427905	B-131
1447128	B-123
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1525910	B-106
1536023	PZ-39
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1690048	B-086
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6132246	B-053
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93FF6M090AA	B-072
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96FF6M090AB	B-088
96FF6M090BA	B-088
96FF6M090BB	B-088
99FF6M090AA	B-088
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AV2Q-6M090-BA	PZ-711
AV6Q-6M090-BA	PZ-711
BK3Q6M090AB	PZ-713
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XS7U-6M090-BB	B-101

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GM	HKT
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90510924	B-081
9110724	B-077

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9110945	B-094
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9201698	B-116
93161342	B-116
93161489	B-116
93171875	B-104
93178047	B-122
93178225	B-107
93178411	B-125
93180295	B-109
93183738	CP-50
93183739	CP-50
93189648	B-077
93193804	B-122
93196922	B-077
94319700	PI-58
94402303	PI-51
94481972	CP-50
95508486	B-122
95508508	CP-50
97044037	PI-57
97080554	CP-50
97143674	PI-172

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6301-330010	PH-21
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12291-RL0-G01	CP-53
ZA8-9704-4037	PI-59

HYUNDAI	HKT
36710-27000	B-110
36710-27010	B-110
36710-29000	B-081
36710-29001	B-081
36710-2A100	B-126
36710-2A200	B-126
36710-2A700	A-604
36710-2A710	A-604
36710-2F000	A-606

HYUNDAI	HKT
36710-2F001	A-606
36710-2F100	A-607
36710-2F101	A-606
36710-3A000	A-603
36710-42000	PM-166
36710-42010	PM-166
36710-42020	PM-166
36710-42021	PN-135
36710-42050	CP-07
36710-42500	PM-167
36710-42510	PM-166
36710-42550	PN-135
36710-45001	A-601
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5-81410056-3	PI-48
5-81410057-2	PI-47
5-81410058-3	PI-48
5-86101642-0	CP-03
8-91255588-0	PI-46
8-94133759-1	PI-49
8-94133759-2	PI-49
8-94133759-5	PI-49
8-94133759-6	PI-49
8-94133759-8	PI-49
8-94133759-9	PI-49
8-94135377-3	PI-50
8-94135377-4	PI-50
8-94139035-2	PI-50
8-94140115-2	PI-170
8-94144412-0	PI-58
8-94172223-0	PI-52
8-94175158-0	PI-49
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8-94221719-3	PI-46
8-94241449-0	PI-46
8-94255588-0	PI-46
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8-94319700-2	PI-58
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8-94387612-1	PI-59
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8-94402303-2	PI-51
8-94439218-0	PI-55
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8-97306519-2	PI-176
8-97326046-0	PI-175
8-98259502-0	PI-177
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9-82511978-0	PI-42
9-82511994-0	PI-40
9-82513928-2	PI-44
9-82513928-8	PI-44
9-82513959-0	PI-43

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4849406	B-081

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02JD61604	B-134
2JD61604	B-134
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C2S40053	B-101
JD61164	B-101
JDE3926	B-134

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OK71018140	PZ-39
OK71018140A	PZ-39
OK75A18140	PZ-39
OK75B18140	PZ-39
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36710-2A710	A-604
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K71018140A	PZ-39
K75A18140	PZ-39
K75B18140	PZ-39
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KOMATSU	HKT
6008-15-1340	PK-115
6008-15-2320	PK-116
6008-15-2650	PK-96
6008-15-2760	PD-191
6008-15-2761	PT-150
6110-13-2511	PK-96

KUBOTA	HKT
15221-6551-3	PS-204
15521-6551-2	PS-202
15521-6551-3	PS-204
15694-6551-2	PN-132
15694-6551-3	PN-132
15951-6551-2	PS-201
16241-6551-2	PS-207
16261-6551-1	PS-207
16851-6551-0	PS-206
16851-6551-2	PS-206
17331-6551-1	PS-209
17529-6551-1	PS-219
19077-6551-1	PS-208
19215-6551-0	PS-200
19215-6551-3	PS-200

LADA	HKT
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LANCIA	HKT
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4896406	B-081

LAND ROVER	HKT
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ERC8450	B-081
ERC8648	B-049
ERR6066	B-118
ETC8847	B-074
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LR004377	B-101
LR004377G	B-101
LR029960	PZ-713
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STC2223	B-081
STC3103	B-081

LDV	HKT
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MAZDA	HKT
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1353-18-140	PZ-30
1353-18-140A	PZ-30
1N01-18-601A	CP-01
1N02-18-601	CP-02
1N03-18-601	CP-02

MAZDA	HKT
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PN11-18-601	CP-30
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R2L2-18-601	PZ-36
RF1M-18-601	CP-60 JPX-60
RF2A-18-601	PZ-704
RFG1-18-601	PZ-38
RFJ5-18-601	PZ-37
RFN1-18-601	PZ-39
RFP1-18-601	PZ-702
S201-18-140	PZ-33
S210-18-140	PZ-35
S210-18-140A	PZ-35
S501-18-140A	PZ-33
S550-18-601	CP-62
SE01-18-140A	PZ-31
SEM1-18-601	PZ-701
SH01-18-601A	CP-61
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WL03-18-601	PZ-39
WL81-18-601	PZ-39
Y401-18-601	B-106
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Y404-18-601	B-123
Y404-18-601A	B-123
Y650-18-601	PZ-711
Y701-18-601	CP-50
YJ01-18-601	PI-50
YJ02-18-601	PI-50

MERCEDES-BENZ	HKT
11590001	B-081
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11591501	B-095
11591601	B-095
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11592001	B-082
11592101	B-082
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1597701	B-081

MERCEDES-BENZ	HKT
1598101	B-081
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4151590001	PN-900
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A6221590001	PN-901
A6601590001	B-114

MITSUBISHI	HKT
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3066-51301	PM-70
30666-20309	PM-62
30666-51300	PM-70
30666-51301	PM-70
30866-04104	PM-60
31166-03101	PM-61
31166-03104	PM-61
31366-02100	PM-65
31366-02109	PM-65
31366-14300	PM-63
31366-14301	PM-63
31366-14302	PM-63

<b>MITSUBISHI</b>	<b>HKT</b>	<b>NISSAN</b>	<b>HKT</b>	<b>NISSAN</b>	<b>HKT</b>	<b>OPEL</b>	<b>HKT</b>
31366-14700	PM-65	11065-00Q0A	B-116	11065-J5502	PN-122	1214319	B-081
31366-14701	PM-65	11065-00Q0C	CP-75	11065-J6500	PN-130	1214320	PI-57
31666-02109	PM-65	11065-00Q0E	PN-900	11065-OW801	CP-03	1214321	PI-49
36710-42060	PM-166	11065-00Q0H	PN-901	11065-Q4001	PN-87	1214322	B-100
K967024	PM-63	11065-00Q0K	PN-901	11065-T3400	PN-88	1214323	PI-49
M816732	B-080	11065-00Q0L	PN-901	11065-T3401	PN-88	1214324	B-081
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MD014997	PM-161	11065-00QAB	B-116	11065-T8200	PN-128	1214427	B-086
MD050212	PM-75	11065-00QAE	B-116	11065-T8201	PN-124	1214456	B-098
MD077167	CP-07	11065-00QAF	B-077	11065-T8202	PN-128	1214457	B-098
MD082832	CP-07	11065-00QAG	B-077	11065-T8203	PN-124	1214459	PI-172
MD092392	CP-06	11065-02T00	PN-137	11065-T9000	PN-125	4300425	PI-49
MD197511	CP-07	11065-0W801	CP-03	11065-T9001	PN-125	4402724	B-077
MD301950	PM-164	11065-10A06	PN-134	11065-V0700	PN-89	4406338	PN-901
MD344460	PM-167	11065-10A16	PN-134	11065-V0710	PN-89	4415128	CP-73
MD344469	PM-167	11065-10G00	PN-132	11065-V7203	CP-70	4416912	B-077
MD354500	PM-167	11065-10T01	PN-136	11065-W2500	PN-121	4423206	PN-901
MD364515	PM-400	11065-16A00	PN-127	11065-W2510	PN-121	4430069	B-116
ME001581	PM-162	11065-16A01	PN-133	11065-W3400	PN-129	4430920	B-116
ME007545	PM-65	11065-16A05	PN-126	11065-W3410	PN-129	4506155	B-116
ME007546	PM-63	11065-16A10	PN-127	11065-Y1400	PN-85	4708970	B-122
ME007547	PM-74	11065-16A11	PN-133	11065-Y1401	PN-85	4802239	A-608
ME007615	PM-77	11065-16A15	PN-126	11065-Y1402	PN-86	4805511	A-605
ME007649	PM-163	11065-1819R	PN-901	11065-Y1403	PN-86	5614216	B-080
ME017009	PM-160	11065-29W00	PN-132	11065-Y1404	PN-86	5614218	B-081
ME017010	PM-73	11065-2W202	CP-73	11065-Z5000	PN-82	5614219	B-080
ME017013	PM-73	11065-2W204	CP-73	997261	B-049	88900715	B-099
ME017057	PM-78	11065-2W211	CP-73			88900716	B-086
ME021302	PM-60	11065-31N00	PN-138	<b>OPEL</b>	<b>HKT</b>	88900717	B-111
ME037002	PM-66	11065-31W00	PN-87	1214018	B-104	88900718	B-112
ME067459	PM-61	11065-31W01	PN-87	1214020	B-077	88900719	B-114
ME077476	PM-404	11065-34W00	PN-123	1214032	B-122	88900720	B-088
ME191813	PM-401	11065-37501	PN-80	1214033	B-107	88900722	B-077
ME200970	CP-05 JPX-05	11065-37506	PN-81	1214034	B-125	88900723	B-080
ME201632	PM-165	11065-37507	PN-81	1214040	B-109	88900724	B-095
ME201638	CP-05 JPX-05	11065-43G01	PN-135	1214042	CP-50	88900725	B-081
ME202785	CP-05 JPX-05	11065-4P400	CP-04	1214043	CP-50	88900726	B-087
ME203539	PM-168	11065-57J00	CP-02	1214045	B-100	88900727	B-082
ME203583	PM-165	11065-5C900	CP-02	1214056	B-107	88900728	B-081
ME203754	PM-165	11065-63G00	PN-135	1214070	B-122	88900729	B-084
ME205539	PM-168	11065-65N00	CP-03	1214071	B-125	88900731	B-081
ME240253	PM-407	11065-65N01	CP-03	1214073	B-109	88900732	B-053
ME300970	CP-05 JPX-05	11065-6F900	B-087	1214080	B-116	88900733	B-081
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MN960296	PM-169	11065-AD200	CP-72 JPX-72	1214304	B-081	88900738	B-081
MN980234	PM-405	11065-AD201	CP-72 JPX-72	1214305	B-107	88900740	B-081
MN980409	PM-406	11065-BN701	B-077	1214306	B-081	88900743	PI-58
MN982294	B-124	11065-C8600	PN-131	1214307	B-081	90040991	B-053
MR577131	PM-167	11065-D9702	CP-01	1214309	PI-51	90051950	B-081
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		11065-G2460	PN-138	1214311	PI-58	90093897	B-081
		11065-G5501	CP-01	1214312	PI-58	90166155	B-081
		11065-J2000	PN-84	1214315	PI-57	90210824	B-081
		11065-J5501	PN-122	1214316	CP-50	90487858	B-081
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11065-00Q00	B-077						

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95518024	PN-901

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22439-AA010	CP-81

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18550-67G11	B-089
18550-67JG0	B-077
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18550-78E00	PZ-39
18550-79J80	B-135
18550-79J81	B-135
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18550-84A50	B-077
18550-84A51	B-077
18550-84E50	B-122
18550-M86J00	B-122

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19850-0R010	PT-500
19850-0R020	CP-23
19850-0R022	CP-23
19850-0W010	PT-159
19850-0W020	CP-74
19850-11010	CP-25
19850-11040	CP-25
19850-17020	PT-158
19850-26010	PT-500
19850-26020	CP-23
19850-26021	CP-23
19850-26022	CP-23
19850-26030	CP-24
19850-27010	PT-157
19850-30010	PT-157
19850-33020	CP-74

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19850-54030	PT-103
19850-54031	PT-144
19850-54050	PT-140
19850-54060	PT-142
19850-54070	PT-147
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19850-54090	PT-151
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19850-54130	CP-20
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19850-54150	PT-155
19850-56010	PT-94
19850-56011	PT-94
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19850-56021	PT-100
19850-56022	PT-100
19850-58010	PT-153
19850-64010	PT-107
19850-64020	PT-150
19850-64030	PT-154
19850-64031	PT-152
19850-64050	PT-154
19850-67010	PH-21
19850-67020	CP-22 JPX-22
19850-67030	CP-22 JPX-22
19850-68010	PT-145
19850-68020	PT-108
19850-68030	PT-104
19850-68040	PT-109
19850-68050	PT-146
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19850-76001	PT-94
19850-78010	PT-148
19850-89101	PH-26
87343-20010	PT-155
90179-04019	PT-155
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SU00100894	B-123
SU001A1261	PZ-711

VAUXHALL	HKT
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93183990	B-100
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93193804	B-122



VAUXHALL	HKT
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94140115	PI-49
94175158	PI-49
95508486	B-122
95514173	PN-901
95516186	PN-901
95518024	PN-901

VOLKSWAGEN	HKT
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059998319	B-132
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068905061	B-080
10213002	B-080
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1257889	B-080
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30725069	B-131
30725678	PZ-711
30862690	B-096
30883828	B-077
31216248	B-123
31330212	PZ-711
32017060	B-092
8631607	B-134
8653698	B-131

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129155-77801	PS-210
129795-77800	PS-201

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0100266071	PZ-713
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0100276008	B-122
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0100226517	B-121
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0100226522	B-126
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0100266007	B-129	946MJ	PI-58	GN054	B-131	GV603	B-081
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0100266024	B-135	970MJ	B-084	GN060	B-121	GV661	B-072
0100266032	PN-900	999MJ	B-096	GN061	PI-49	GV663	B-081
0100266034	B-135	CGP003	PM-406	GN062	B-126	GV666	B-072
0100266040	B-132	G10SB	B-072	GN063	B-124	GV673	PN-135
0100266045	B-129	G1SB	B-080	GN064	PZ-704	GV689	B-080
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151MJ	B-081	G3SB	B-081	GN070	PM-168	GV705	PZ-33
162MJ	B-080	G4SB	B-053	GN072	CP-73	GV719	B-081
226569	CP-05 JPX-05	G6SB	B-081	GN073	CP-53	GV724	B-081
2510029124	A-602	G7SB	B-081	GN101	CP-01	GV727	B-081
266020	B-132	GE101	PM-405	GN102	CP-02	GV783	B-074
266038	PZ-713	GE105	B-129	GN103	CP-50	GV798	B-081
601MJ	B-080	GE108	B-132	GN107	CP-01	GV844	B-080
603MJ	B-081	GE110	PN-900	GN108	PM-167	GV852	B-081
604MJ	B-080	GE114	B-135	GN116	CP-23	GV898	PM-161
631MJ	B-053	GE115	B-132	GN117	PR-801	GV920	PN-132
636MJ	B-081	GE121A	PZ-711	GN123	A-602	GV921	PN-135
642MJ	B-081	GE122	PZ-713	GN853	CP-08	GV945	PI-51
657MJ	B-049	GE124	PN-901	GN854	PN-138	GV946	PI-58
661MJ	B-072	GE125	A-605	GN855	PN-138	GV947	PI-57
663MJ	B-081	GE133	B-132	GN857	B-077	GV967	PT-154
666MJ	B-072	GN003	B-099	GN858	B-080	GV968	PT-155
673MJ	PN-135	GN005	PZ-39	GN860	B-078		
689MJ	B-080	GN007	B-086	GN905	B-095		
691MJ	B-081	GN008	B-111	GN908	B-096	<b>BOSCH</b>	<b>HKT</b>
705MJ	PZ-33	GN010	B-112	GN909	B-081	0250200049	B-049
719MJ	B-081	GN012	B-097	GN912	B-081	0250200053	B-049
724MJ	B-081	GN013	B-081	GN917	B-087	0250200054	B-081
727MJ	B-081	GN015	B-114	GN927	B-081	0250200057	B-081
783MJ	B-074	GN016	B-087	GN928	B-072	0250200058	B-081
798MJ	B-081	GN017	B-108	GN939	B-092	0250200059	B-081
844MJ	B-080	GN018	B-077	GN944	B-101	0250200060	B-081
852MJ	B-081	GN019	B-102	GN948	B-100	0250200063	B-080
853MJ	PN-138	GN022	B-088	GN954	B-082	0250200064	B-081
854MJ	PN-138	GN024	B-104	GN955	B-081	0250200065	B-081
855MJ	B-077	GN025	B-098	GN959	PM-166	0250200066	B-081
857MJ	B-080	GN026	B-116	GN961	B-080	0250200068	B-081
858MJ	B-078	GN027	B-089	GN963	B-067	0250200069	B-081
896MJ	PI-51	GN030	B-119	GN964	B-094	0250200469	B-081
898MJ	PM-161	GN033	B-107	GN970	B-113	0250201001	B-081
905MJ	B-096	GN035	B-110	GN985	B-084	0250201004	B-080
908MJ	B-081	GN037	PM-403	GN991	B-118	0250201005	B-081
909MJ	B-081	GN039	PN-138	GN992	B-083	0250201006	B-081
912MJ	B-087	GN041	B-109	GN993	B-098	0250201008	B-081
917MJ	B-081	GN042	PT-159	GN994	B-105	0250201009	B-081
920MJ	PN-132	GN043	PT-154	GN997	CP-03	0250201011	B-080
921MJ	PN-135	GN044	PN-131	GN999	PI-172	0250201012	B-049
		GN045	B-134		B-096	0250201014	B-049
						0250201015	B-080

BOSCH	HKT	BOSCH	HKT	BOSCH	HKT	BOSCH	HKT
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0250201026	B-078	0250202034	B-084	0250212018	B-111	GLP089	B-081
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0250201032	B-080	0250202040	B-074	0250312007	CP-07	GLP103	PI-49
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0250201035	B-095	0250202043	B-107	0250403005	B-135	GLP115	B-134
0250201036	B-092	0250202045	B-099	0250403006	B-129	GLP117	PZ-33
0250201037	B-081	0250202046	B-086	0250403008	B-129	GLP119	B-078
0250201038	B-082	0250202048	B-131	0250403009	B-132	GLP120	PI-51
0250201039	B-081	0250202052	PT-154	0250403010	A-605	GLP125	PN-132
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0250201042	B-081	0250202056	PZ-33	0250403012	PN-900	GLP137	PM-168
0250201043	B-081	0250202060	PN-135	0250403021	PN-901	GLP147	CP-53
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0250201050	B-080	0250202085	PI-58	F01G00000P	CP-23	GLP196	B-135
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0250201933	B-080	0250202096	PT-155	GLP006	B-078	GLP221	PN-900
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0250202003	PN-135	0250202135	B-131	GLP031	B-111		
0250202006	PT-155	0250202140	B-067	GLP033	B-086		
0250202007	PZ-33	0250202141	B-099	GLP034	PN-135		
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0250202015	PN-132	0250202901	B-072	GLP040	B-104		
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0250202026	B-067	0250204002	B-123	GLP055	B-131		
0250202027	B-100	0250212006	B-110	GLP057	B-116		
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067100-1591	PH-25
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067100-1700	PT-153
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DG-146	PZ-39
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DG-190	PM-405
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DG-198	PN-135
DG-202	B-049
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DG-214	PT-154
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DG-235	PT-109
DG-239	PT-142
DG-240	PT-159
DG-300	CP-50
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DG-302	CP-51
DG-501	PZ-702
DG-502	PZ-704
DG-600	CP-23
DG-601	CP-53

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DG-656	CP-08
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DG-659	CP-74
DG-661	A-602
DG-667	CP-61
DG-669	A-606
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H5128	CP-61

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4818	B-096	6158	B-096	8939	B-131	CZ261	CP-03
4842	B-112	6160	CP-50	8944	PM-167	CZ304	PM-406
4902	B-094	6214	B-081	90007	A-606	CZ71	CP-73
4916	B-083	6246	B-089	90066	CP-05 JPX-05	DP1	B-081
4937	PN-135	6281	B-087	90784	B-122	DP10	B-087
4950	B-081	6285	B-080	91322	B-123	DP11	B-099
4951	B-108	6286	B-129	9138	B-098	DP12	B-102
4956	B-080	6287	B-129	91416	A-602	DP13	PM-167
4966	B-124	6298	B-107	91617	B-121	DP14	B-098
4994	CP-07	6305	B-081	91766	B-116	DP15	B-081
5000	B-098	6346	B-099	91843	B-126	DP16	B-082
5005	B-087	6382	B-107	92083	CP-23	DP17	B-096
5013	B-110	6416	B-102	92283	A-607	DP18	B-077
5045	B-082	6426	PT-93	92703	CP-61	DP19	B-083
5059	B-119	6461	B-099	94103	PN-900	DP2	B-080
5065	B-086	6557	B-083	94251	B-135	DP20	B-086
5104	B-096	6573	B-077	94542	PI-172	DP21	CP-07
5116	PZ-39	6586	PN-138	9456	B-105	DP22	B-096
5148	B-088	6592	PM-167	94629	PM-403	DP23	B-072
5171	B-083	6599	B-080	94832	B-101	DP24	B-089
5207	B-123	6600	B-114	95061	B-121	DP25	B-080
5264	PI-57	6649	B-098	95173	CP-73	DP26	B-108
5267	B-081	6679	B-102	95232	A-604	DP27	B-105
5285	B-122	6704	B-096	95322	B-135	DP28	PI-58
5287	CP-07	6707	B-101	95836	B-127	DP29	B-084
5317	B-081	6792	B-088	95970	B-101	DP3	B-072
5376	PT-155	6836	CP-73	96037	B-126	DP30	B-095
5390	B-113	6848	B-082	96187	B-127	DP31	B-111
5413	B-081	6850	B-096	96289	A-605	DP32	B-104
5486	CP-03	6892	B-077	96478	CP-61	DP33	B-072
5513	PT-159	6897	B-104	96543	PN-900	DP34	B-074
5540	B-109	6900	PI-57	96614	PM-403	DP35	B-101
5568	B-095	6943	B-086	96853	CP-03	DP36	B-109
5605	B-077	7464	PZ-39	97009	B-122	DP37	B-107
5618	B-114	7503	B-088	97256	CP-23	DP38	B-112
5642	PI-57	7545	B-072	97930	PM-406	DP39	PZ-39
5661	PM-405	7648	B-094	9835	PM-406	DP4	B-077
5665	PT-159	7717	B-086	9864	PM-166	DP40	B-106
5700	B-084	7768	PM-405	9974	CP-50	DP41	B-067
5718	B-087	7771	PN-131	CY03	CP-07	DP43	B-119
5740	B-082	7782	PT-154	CY07	CP-03	DP45	PT-159
5837	PI-51	7794	B-134	CY08	CP-01	DP46	B-114
5849	B-132	7825	PT-94	CY51	CP-02	DP48	PM-405
5906	B-078	7880	PI-58	CY52	CP-05 JPX-05	DP49	B-132
5909	B-077	7906	B-081	CY55	CP-07	DP5	B-088
5915	B-072	7925	B-101	CY57	CP-03	DP51	B-129
5941	B-109	7947	B-080	CY58	CP-70	DP55	PM-406
5979	B-119	7957	B-131	CZ01	A-606	DP56	B-131
5986	B-105	7992	B-112	CZ105	CP-61	DP57	B-132
5996	B-083	7995	PI-49	CZ113	CP-61	DP59	PM-168
5999	PI-58	8643	PM-169	CZ163	A-604	DP6	B-078
6001	B-077	8838	CP-50	CZ203	CP-73	DP60	CP-50
6003	B-067	8851	PZ-711	CZ21	CP-51	DP62	B-122
6042	B-089	8888	B-132	CZ22	CP-05 JPX-05	DP64	PM-403
6074	B-132	8902	PM-168	CZ256	PM-167	DP65	CP-23
6092	B-125	8904	PZ-711	CZ257	CP-73	DP66	B-116
6140	PN-138	8926	B-132	CZ258		DP68	A-604

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DP7	B-094	Y-173	PH-20	Y-542J	PT-159	Y-902R	B-081
DP71	B-127	Y-174TS	PK-96	Y-543J	B-114	Y-904M	PI-49
DP73	B-123	Y-175-2	PM-61	Y-548J	B-101	Y-904M1	PI-49
DP77	PN-900	Y-175S-2	PM-61	Y-603J	CP-50	Y-907R	B-053
DP8	CP-50	Y-176	PH-21	Y-605J	B-118	Y-908R	B-081
DP81	B-121	Y-177-1	PN-88	Y-609AS	B-132	Y-909R	B-049
DP82	CP-61	Y-178	PT-94	Y-701J	PZ-39	Y-910J	B-072
DP9	B-087	Y-178T	PT-101	Y-701R	PZ-37	Y-910R	B-072
Y-1002AS	B-132	Y-180	PM-66	Y-702R	PN-132	Y-911J	B-072
Y-1003AS	A-607	Y-181T	PN-120	Y-702U	PS-210	Y-913J	B-081
Y-1005J	B-131	Y-182T	PM-70	Y-703R	PT-150	Y-913M	B-081
Y-1007J	PM-168	Y-182T-1	PS-217	Y-705RS	PN-132	Y-914U	B-081
Y-1010AS	PN-901	Y-197R	PT-141	Y-707RS	PN-135	Y-916J	B-078
Y-1012J	CP-23	Y-197T	PT-108	Y-709R	PS-207	Y-916R	B-078
Y-1013J	CP-22 JPX-22	Y-201	PM-63	Y-710J	PI-58	Y-917U	B-081
Y-102	PM-62	Y-202	PN-84	Y-710R	PI-58	Y-918J	B-080
Y-103	PN-81	Y-202-2	PN-122	Y-711J	PI-58	Y-918R	B-080
Y-103-1	PN-85	Y-204RS	PN-121	Y-711R	PI-51	Y-920R	B-081
Y-1031J	B-127	Y-204SS	PN-129	Y-711RS	PI-57	Y-922R	B-081
Y-103-2	PN-86	Y-204TS1	PN-89	Y-712RS	PN-138	Y-923U	B-081
Y-1035AS	PN-900	Y-207T	B-080	Y-715R	PT-155	Y-924J	B-081
Y-1038J	PI-172	Y-208T	B-081	Y-716RS	PS-208	Y-925J	B-082
Y-103V	PS-201	Y-251	PM-65	Y-719RS	PI-59	Y-925R	B-082
Y-104	PI-42	Y-252	PN-82	Y-719RS1	PI-57	Y-927J	B-083
Y-104R	PI-46	Y-271-2	PI-44	Y-721RS	PZ-36	Y-927R	B-083
Y-106-1	PS-204	Y-272R1	PN-125	Y-722J	PM-166	Y-928U	B-084
Y-106V	PS-202	Y-274	PM-73	Y-722JS	PM-166	Y-929U	B-067
Y-107R	PZ-33	Y-274R	PM-160	Y-723U	B-077	Y-930U	B-095
Y-107T	PZ-30	Y-306R	PI-45	Y-729U	B-074	Y-932R	B-080
Y-107V	PS-203	Y-307R	PI-51	Y-730U	B-096	Y-933J	B-080
Y-112M1	PN-132	Y-501U	B-111	Y-731U	B-087	Y-935U	B-072
Y-112R1	PN-132	Y-502R	B-097	Y-732J	B-077	Y-937J	B-088
Y-112T	PN-87	Y-503J	B-087	Y-732U	B-077	Y-937R	B-088
Y-114T	PM-79	Y-503R	B-087	Y-733J	PM-164	Y-938R	B-081
Y-115R1	PM-161	Y-504J	B-089	Y-738U	B-113	Y-939J	B-119
Y-115T-1	PM-166	Y-504R	B-089	Y-740U	B-096	Y-954M	PI-50
Y-117RS	PN-126	Y-506J	B-094	Y-741U	B-086	Y-955RS	PN-137
Y-117SS	PN-127	Y-506R	B-094	Y-742U	PI-58	Y-971M	PM-78
Y-118R	PT-140	Y-507J	B-104	Y-743U	PI-57	YA-01	PS-219
Y-118T1	PT-144	Y-507R	B-104	Y-745U	B-099	YE01	PS-206
Y-119V	PS-209	Y-508J	B-120	Y-746J	B-112	YE04	B-106
Y-128	PT-93	Y-515J	B-077	Y-746R	B-112	YE05	B-123
Y-128T	PT-100	Y-516J	B-102	Y-747U	B-108	YE06	B-122
Y-144RS	PN-134	Y-517J	B-116	Y-748U	B-098	YE07	B-125
Y-144SS	PN-133	Y-523J	B-107	Y-749J	B-110	YE08	B-124
Y-145T	PS-216	Y-524J	B-105	Y-755RS	PN-131	YE11	PS-206
Y-146R	PT-107	Y-525J	B-101	Y-757RS	PN-136	YE12	B-134
Y-147T	PT-145	Y-526J	PZ-710	Y-766MS	PS-215	YE13	PM-169
Y-149	PS-200	Y-527J	B-126	Y-771R	PZ-701	YE14	PM-405
Y-154	PI-43	Y-529J	PZ-704	Y-784M	PI-173		
Y-154RS	PI-48	Y-530J	PN-138	Y-8001AS	PZ-711		
Y-157R	PZ-31	Y-531J	PT-157	Y-8002AS	B-129		
Y-162R1	PN-124	Y-532J	PT-154	Y-8003J	B-122		
Y-168R	PT-142	Y-534J	B-109	Y-8005J	PM-403		
Y-171	PK-98	Y-535J	A-602	Y-8009AS	A-605		
Y-172	PM-60	Y-536J	B-121	Y-874-1	PI-40		
		Y-538J	CP-73	Y-9003AS	B-135		

# HKT FAILURE ANALYSIS GUIDE

ENGLISH



## CAUSE

## REMEDY

### Probe surface melting



Premature start of the injection cycle.  
 Injector-nozzles with coke deposits, or well, injector-nozzles wear. Engine damage (after break of valves, piston seizure...).  
 The injector-nozzles drip. Piston rings are seized.  
 Piston rings that allow oil flow to the combustion chamber.

Check the injection system and set the injection point correctly.

The end of heating element is too hot and melts or breaks.

### Cut off or blown Probe



Oil flows to the combustion chamber.  
 Defective calibrating or premature injection cycle.

Check oil consumption. Check engine piston sealing (piston rings...). Check the control unit. Check the injection system. Set correctly the injection cycle.

The end of heating element is too hot.  
 Possible break or melting.

### Probe surface melting and breaking of heating coil



Operation with excessively high voltage (e.g. in starting assistance). The voltage is applied during long time (failure of pre-heating relay). The post-heating glow is not admissible with engine running. Glow plug with no post-heating has been fitted. Increased alternator voltage.

In starting assistance use 12V vehicle electrical system only. Check the pre-heating glow plug system. Replace the pre-heating relay time. Check alternator.

Break of the heating wire (heating filament).

### Swollen Tip



Defective glow plugs. The tube may swell, burst or even explode due to the incorrect filling or poor drying of insulating powder before filling.

Only use the type of glow plugs recommended by the engine manufacturer.

Short-circuit caused by the overheating. The incandescence tube may burst or explode.

### Plug body showing carbon



Defective injection system. Incorrect measurement. Premature start of the injection cycle.

Check the injection system. Set the injection point exactly.

The tip end of the heating element is too hot. Becomes brittle and breaks.

### Carbon deposit filling gap at base of probe



Excess fuel or oil getting past the valve stem or piston rings.

Replace and repair where necessary. Check the quality of fuel.

Poor Quality of fuel used.

### Plug showing ridge on probe



Excess fuel or oil entering the combustion area.

Check injection system and timing.

### Plug terminal snapped



Excessive terminal-nut and /or connector tightening torque. Due to the use of incorrect tools.

Use the appropriate torque wrench. Comply exactly with specified tightening torque.

Terminal stud shears off, damage to hexagon nut, short circuit.



## CAUSA

## SOLUCIÓN

### Superficie del tubo derretida



Comienzo del ciclo de inyección demasiado pronto. Inyectores con depósitos de hollín o desgastados. Daños en el motor tras la rotura de válvulas, gripado de pistones... Los inyectores gotean. Segmentos agarrotados. Los segmentos dejan pasar aceite a la cámara de combustión. El extremo del tubo de incandescencia se calienta excesivamente. Se rompe o se funde.

Comprobar el sistema de inyección y ajustar correctamente el ciclo de inyección.

### Tubo "degollado" o explotado



Problema de inyección que origina un chorro de combustible esparcido anormalment sobre el tubo.

Limpie, reemplace o repare los inyectores.

### Superficie del tubo derretida y corte de la bonina calentadora



Tensión demasiado alta (p.ej. en arranque asistido). Se aplica corriente durante demasiado tiempo (fallo relé pre-calentamiento). El post-calentamiento no es admisible con el motor en marcha. Se ha montado un calentador no apto para post-calentamiento. Elevada tensión del alternador. Rotura del filamento (espiral de calentamiento).

En ayuda para el arranque utilizar solamente sistema de 12V. Comprobar el sistema de pre-calentamiento. Sustituir el relé de pre-calentamiento. Comprobar alternador.

### Punta hinchada



Calentadores defectuosos. Debido a un llenado deficiente o a un secado incorrecto del polvo aislante antes del llenado, el tubo puede hincharse, reventar e incluso explotar. Cortocircuito debido a sobrecalentamiento. El tubo de incandescencia puede reventar o explotar.

Utilizar solamente el tipo de calentadores recomendados por el fabricante del motor.

### En el cuerpo de la bujía aparece carbón



Defecto del sistema de inyección. Tarado incorrecto. Comienzo del ciclo de inyección demasiado pronto. La punta del tubo de incandescencia se calienta excesivamente. Se vuelve quebradiza y se rompe.

Comprobar el sistema de inyección y ajustar correctamente el ciclo de inyección.

### Depósitos de carbono hacen un hueco en la base de la sonda



Exceso de combustible o aceite que pasa por el vástago de las válvulas o por los aros. Mala calidad del combustible usado.

Reemplace y repare lo que sea necesario. Revise la calidad del combustible.

### Ondulaciones en el tubo



Exceso de combustible o aceite que entra en la cámara de combustión.

Revise el sistema de encendido y la puesta a punto.

### Terminal de la bujía suelto



Apriete excesivo de la tuerca y/o conector. Utilización de herramientas inadecuadas. Rotura del perno conexión. Tuerca hexagonal dañada, cortocircuito.

Utilizar llave dinamométrica adecuada. Respetar el par de apriete especificado.







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