

# **Karmot Pty Ltd**

## **Sydney, Melbourne and Brisbane**

ABN 91 003 005 150



*On the right track with Karmot!*

### **MAY 2009**

## **HKT GLOW PLUG CATALOGUE**

**AN AUSTRALIAN OWNED  
SUPPLIER OF QUALITY WORKSHOP  
EQUIPMENT and AUTOMOTIVE COMPONENTS.**

## TERMS AND CONDITIONS

### 1. Purchase Price

- 1.1 Karmot Pty Ltd ("the Company") agrees to sell the goods described on the front of this invoice to the customer named on the front of this invoice or customer named in an Application for Commercial Credit Facility with the Company ("the Customer") and the Customer agrees to purchase the goods from the Company for the total purchase price referred to on the front of the relevant invoice.
- 1.2 The total purchase price referred to on the front of this tax invoice includes GST as specified.

### 2. Delivery and Risk

- 2.1 The "date of delivery" is the date upon which the goods leave the premises of the Company. All goods are deemed to be delivered to the Customer at the Company's premises.
- 2.2 The Customer is responsible for arranging for the transportation of the goods from the Company's premises and is responsible for the insurance of the goods while in transit. The cost of transporting the goods and insuring them while in transit will be borne solely by the Customer.
- 2.3 Unless notified to the contrary, and without limiting the Customer's obligations under Clause 2.2, the Company will arrange on the Customer's behalf, for the transportation of the goods from the Company's premises to the Customer's premises at the Customer's expense. The cost of any such delivery is specified on the front of this tax invoice and is included in the total purchase price.
- 2.4 Risk in the goods shall pass to the Customer at the date of delivery. Unless notified to the contrary, and without limiting the Customer's obligations under this clause or Clause 2.2, the Company will arrange on the Customer's behalf for the insurance of the goods while in transit at the Customer's expense. The cost of any such insurance is specified on the front of this tax invoice and is included in the total purchase price. Where the Company does not arrange insurance on the Customer's behalf, the Customer will insure all goods that are at its risk.
- 2.5 Notwithstanding that risk shall pass to the Customer as herein provided title to the goods shall remain the absolute property of the Company until the Customer has paid to the Company in full the total purchase price for same. The Customer acknowledges that the Customer holds the goods as bailee of the Company until the total purchase price is paid to the Company for the goods. For the avoidance of doubt, where the goods are not separately marked, and the Customer has paid part of the total purchase price, the Customer acknowledges that title in each of the goods will remain the absolute property of the Company until the total purchase price is paid. The Company and its duly authorised agents shall at all times and without notice be entitled to enter any premises where the goods are believed by the Company to be, without any liability for trespass or damage (against which the Customer indemnifies the Company), and recover therefrom the goods, but only if there is an existing default in the terms of payment as set out in these Terms and Conditions for such goods or any part thereof. The sale by the Customer of only of the goods prior to payment in full of the total purchase price for same shall be made by the Customer as the Company's agent and the Customer shall forthwith account to the Company for the proceeds of the sale to the extent to which such proceeds are necessary to satisfy monies due. The Customer shall keep the Company's goods separate from other goods held by the Customer. Notwithstanding the provisions of this clause, the Company shall be entitled to maintain an action against the Customer for the total purchase price upon delivery.

### 3. Payment

- 3.1 The Customer shall subject to the rest of this Clause 3, pay the total purchase price on the delivery of the goods.
- 3.2 If the Company has agreed to supply the goods to the Customer on credit, the Customer shall pay the total purchase price to the Company within thirty (30) days after the end of the month of delivery.
- 3.3 If payment is not made in accordance with these Terms and Conditions then interest and administration charges of 1.5% per month or part thereof on the outstanding amount shall be charged by the Company to the Customer and payment shall be credited firstly against any interest and administration charges due.
- 3.4 The Customer shall pay all costs, fees, charges and disbursements and legal costs on a Solicitor/Client basis incurred or to be incurred by the Company in recovering any monies due to the Company for the supply of goods to the Customer.
- 3.5 The Company reserves the right to separately invoice the Customer for any additional tax or delivery charges after the date of delivery of the goods.

### 4. Warranties

- 4.1 The Company warrants that:
- in relation to equipment, for a period of 12 months; and
  - in relation to parts for a period of 12 months or 20,000 km,
- if the goods have been correctly installed and used in accordance with the manufacturer's instructions, and if the goods have not been misused, tampered with or damaged (fair wear and tear excepted) and if properly serviced and maintained and not otherwise modified other than with the written consent of the Company, the Company will repair or replace at its option, free of charge, all the goods which are defective by any reason of faulty components or workmanship provided the Company is notified of such faulty components or workmanship in writing within 14 days from the date the defect first became apparent to the first user of such goods, and the Customer complies with Clause 5.
- 4.2 Nothing in these Terms and Conditions will operate to exclude, restrict, or modify the application of the provisions of Division 2 of Part V of the Trade Practices Act 1974 ("the Act"), the exercise of a right conferred by such provision, any liability of the Company for a breach of condition or warranty implied by such a provision or the application of Section 75A of the Act.
- 4.3 To the extent that it is able to do so the Company expressly limits its liability for a breach of a condition or warranty under these Terms and Conditions or implied by virtue of the Act to any one or more of the following, the choice of which is to be at its sole discretion:
- the replacement of the goods or the supply of equivalent goods;
  - the repair of the goods;
  - the payment of the cost of replacing the goods or of acquiring equivalent goods; or
  - the payment of the cost of having the goods repaired.
- 4.4 The limit of the Company's liability to the Customer or to any third party under these Terms and Conditions shall not in aggregate exceed the purchase price of the subject goods. In no event shall the Company be liable for consequential, incidental or punitive loss, damages or expenses howsoever arising, including if arising from the negligence of the Company, its employees, contractors or agents.

### 5. Return of Goods

- 5.1 If the goods are to be returned to the Company for the reasons specified in Clause 4.1, the following procedure is to be complied with by the Customer:
- the goods are to be packaged and returned to the Company's premises within a further 7 days from the date the Company is notified of any defect in the goods as referred to in Clause 4.1.
  - the Customer must provide a copy of the invoice or details of the invoice to which the goods relate.
  - the goods are to be returned to the Company by the Customer freight prepaid.
  - the Customer is to obtain a receipt for the return of the goods from the Company.
- 5.2 If the goods are returned to the Company for credit:
- the Customer must observe the procedure set out in Clause 5.1(b), (c) and (d); and
  - the Customer must pay to the Company an amount equivalent to 10% of the total purchase price on account of the Company's handling charges.

### 6. Intellectual property

- 6.1 The Company owns and will retain the ownership of all intellectual property rights, in and to the goods and any associated documentation and owns and will retain the ownership of any associated documentation produced in connection with the goods.

### 7. Force Majeure

- 7.1 The Company shall not be liable to the Customer for any failure to perform or delay in performance of any obligation under these Terms and Conditions caused by an act of God, war, government action, storm, fire, tempest, strike, lock out or any other circumstances beyond its reasonable control.

### 8. Guarantor

- 8.1 Each guarantor named on an Application for Commercial Credit Facility with the Company ("Guarantor") guarantees to the Company the due payment of all moneys agreed to be paid to the Company by the Customer and the due performance by the Customer of the Customer's obligations to the Company, in accordance with these Terms and Conditions.

- 8.2 A guarantee under Clause 8.1 will remain in full force and effect until the due performance by the Customer of all its obligations set out in these Terms and Conditions.

- 8.3 If there is more than one Guarantor, Clauses 8.1 and 8.2 apply jointly and severally to the Guarantors.

### 9. Plurals

- 9.1 Any reference to the singular hereunder shall include the plural and vice versa.

### 10. Entire Agreement

- 10.1 These Terms and Conditions (and should the Customer have entered into a credit application agreement with the Company, then any terms in that agreement thereunder) constitute the entire agreement between the Company and the Customer and any prior agreement or understanding between them in respect of the subject matter of these Terms and Conditions, including any quotation or purchase order, is superseded by these Terms and Conditions.

- 10.2 To the extent that there is any inconsistency between these Terms and Conditions and the terms and conditions in any purchase order relating to the goods, these Terms and Conditions will prevail.

- 10.3 The Customer acknowledges that it has not agreed to purchase the goods in reliance upon any oral or written representation made by or on behalf of the Company.

### 11. Variation

- 11.1 These Terms and Conditions may be varied only by agreement in writing between the parties.

### 12. Governed and Construed

- 12.1 Any dealings between the Customer and the Company arising out of these Terms and Conditions herein shall be governed by and construed in accordance with the Laws of the State of New South Wales for the time being enforced and the parties agree to submit to the jurisdiction of the courts of that state.



# **Karmot Pty Ltd**

**AN AUSTRALIAN OWNED COMPANY THAT IS  
“BIG ENOUGH TO MATTER...  
SMALL ENOUGH TO CARE”.**

**HEAD OFFICE: SYDNEY**  
Unit D, 26 Penny Place  
Arndell Park NSW 2148  
TEL: 61 2 9622 7388 FAX: 61 2 9622 3922

**BRANCH: MELBOURNE**  
Unit 14, 111 Lewis Road  
Knoxfield VIC 3180  
TEL: 03 9800 1187 FAX: 03 9800 1189

**BRANCH: BRISBANE**  
Unit 1, 120 Gardens Drive  
Willawong QLD 4110  
TEL: 07 3711 2544 FAX: 07 3711 6462

**WEB SITE:** [www.karmot.com](http://www.karmot.com)

**EMAIL:** [sales@karmot.com](mailto:sales@karmot.com)

**Trade mark / Registered name notice.**

**Karmot is the licensee or applicant for the use of the following trade marks registered in Australia and other countries.**

**LIFTECH, RITCH, MASADA, STENHOJ, PARTECH, NIGHTLIGHTER.**

**Copyright notice.**

**This Publication must not be reproduced in whole or part without written authorisation from Karmot Pty. Ltd.**

**This catalogue has been compiled with the utmost care from reliable sources of information, however, we cannot assume responsibility for errors and or omissions (E&OE). Specifications subject to change without notice. If errors or changes are found, kindly advise your supplier.**



## **HKT GLOW PLUG - INDEX**

**GLOW PLUG CHARACTERISTICS.  
ENGINE SHUT OFF VALVES.  
MERCHANDISERS / TOP 25 GLOW PLUGS.**

<b><u>MAKE</u></b>	<b><u>PAGE</u></b>
BEDFORD	1
DAEWOO	1
DAIHATSU	1-2
FORD	2-3
GMC	4
HINO	4
HOLDEN	5
HONDA	6
HYUNDAI	6
INTERNATIONAL	6
IVECO	6
ISUZU	6-8
JEEP	8
KIA	8
LADA	8
LANDROVER	9
MAZDA	9-10
MERCEDES	10-11
MITSUBISHI	11-13
NISSAN	13-16
OLDSMOBILE	16
PEUGEOT	16
ROVER	16-17
SEAT	17
SSANGYONG	17
SUZUKI	17
TATA	17
TOYOTA	18-21
VOLKSWAGEN	21

### **INDUSTRIAL**

HINO	22
ISUZU	22
KOMATSU	22
KUBOTA	22-24
MITSUBISHI	24
NISSAN	24-26
YANMAR	26-27

**MITSUBISHI OE. CROSS REFERENCE.  
PICTURES.  
SIZE CHART.  
CROSS REFERENCE.  
FAILURE ANALYSIS GUIDE.**

**KARMOT PTY. LTD.**  
*On the right track with Karmot*

**CLASSIFICATION AND CHARACTERISTICS OF GLOW PLUGS**

There are two types of 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.

- |                        |                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Standard Type]</b> | 20 – 25 sec to 800°C<br>The resistance of the heating coil does not vary from temperature, and the glow plug draws the constant current.                                                                        |
| <b>[Quick Type]</b>    | 15 – 20 sec to 800°C<br>The coil resistance increases as the temperature goes up, and the current is almost double of the nominal current when the glow is engaged, and this makes possible to heat up quickly. |
| <b>[QGS Type]</b>      | Approx. 10 sec to 900°C<br>The electronics controller and relays control the engaged time and current draw for the quick starting, and also stable running of engine and reduction of smoke at cranking.        |
| <b>[S.Q. Type]</b>     | Max. 10 sec to 800°C<br>The good combination of heating coil and self-regulating coil makes it possible to simplify the system and ensure the quick start.                                                      |

**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 unfavourable influence upon the service life of the glow plug. Turn the switch to OFF after preliminary heating and turn ON again.

**KARMOT PTY. LTD.**  
*On the right track with Karmot*



**ENGINE SHUT OFF VALVES.**

**Description:**

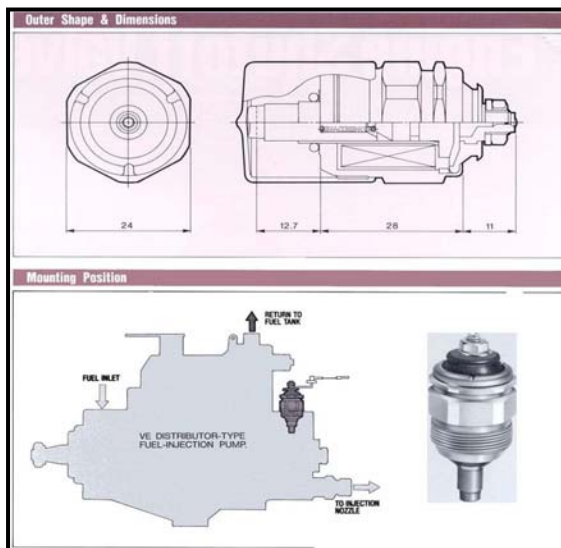
Electric shut-off (solenoid) valve for the diesel VE distributor-type fuel-injection pump.

The VE pump is widely used in passenger car diesel engines, tractors and light commercial vehicles with 3,4,5 and 6 cylinder engines.

The engine shut-off valve is used in the VE pump to shut off the diesel engine by interrupting the supply of fuel to the pump.

**Construction**

The HKT's valves, CV12 (12 DC version) and CV24 (24 DC), are designed and manufactured strictly according to the OE specification to satisfy the all requirements, reliability and durability. The engine shut-off valve is composed of the magnetic coil assembly, plunger, terminal and housing. While the engine running, coils are energized and accordingly the plunger is disenergized and comes down instantaneously to close the fuel path and eventually the engine stops.



**SHUT OFF VALVE SERIES.**

- CV-02: Reference 9009.049 / 9009.041 / 9145.040D / 99438823(FIAT) / Primax 60010 / Star 36.166-1
- CV-04: Reference 7180.049 / Primax 60030 / Star 36.167
- CV-12: Reference 8-94227-656-0 / 8-94239-372-0 / 16870-R8100 / 16870-V2100 / 16870-02N00 / 0933-24-300A  
 Bosch 0 330 001 015 / Denso 096030-0070 / Lucas 7240-5 / Primax 60020
- CV-24 Reference Bosch 0 330 001 016, 9 461 612 164 / Denso 096030-0170 / Lucas 7240-6
- CV-12 ND Denso 096030-0160

**SPECIFICATIONS:**

	<b>CV-02</b>	<b>CV-04</b>	<b>CV-12</b>	<b>CV-24</b>
1. Rated Voltage	12V DC	24V DC	12V DC	24V DC
2. Operating Voltage Range	7 – 14V DC	14 – 28V DC	7 – 14V DC	14 – 28V DC
3. Operating Temp. Range	-30 - + 100° C	-30 - + 100° C	-30 - + 100° C	-30 - + 100° C
4. Operating Pressure Range	0 – 6 kg/cm <sup>2</sup>	0 – 6 kg/cm <sup>2</sup>	0 – 6 kg/cm <sup>2</sup>	0 – 6 kg/cm <sup>2</sup>
5. Pull-in Voltage	Max. 6.3V	Max. 13.3V	Max. 6.5V	Max. 13.3V
6. Release Voltage	Max. 2.5V	Max. 3.5V	Max. 1.5V	Max. 2.5V
7. Durability	100,000 cycles	100,000 cycles	100,000 cycles	100,000 cycles

**Part numbers and vehicle names are used for reference purposes only  
 E and OE.**



# MERCHANDISERS



## HKT GLOW PLUG MERCHANDISERS

Part Number	Description
GPB44	Top 10 Part numbers (Sets only)
GPB66	Top 15 Part numbers (Sets only)
GPB100	Top 10 Part numbers (Packs of 10)
GPB150	Top 15 Part numbers (Packs of 10)

### Top 25 Glow Plugs also indicating number per vehicle

1. PM165 x 4	6. CP05 x 4	11. CP73 x 4	16. PT158 x 6	21. PZ31 x 4
2. PT151 x 4	7. PN135 x 4	12. PT104 x 6	17. CP04 x 6	22. PN123 x 4
3. PT146 x 6	8. PT155 x 4	13. PZ33 x 4	18. CP60 x 4	23. PM75 x 4
4. PT152 x 6	9. PI49 x 4	14. PI172 x 4	19. PT145 x 6	24. CP71 x 3
5. PZ39 x 4	10. PT140 x 4	15. PN138 x 4	20. CP07 x 4	25. CP70 x 3

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### BEDFORD

TR20, TR40	1970-1972	(D500 eng)	6	20.5	24	<b>PI43</b>
SBR422, SBR450, JBR442, JBR500	1972-	(6BB1eng)	6	20.5	24	<b>PI44</b>
SLR520, TD80	1972-1974	(DH100 eng)	6	22.5	24	<b>PI40**</b>
ELF250, TLD63D	1972-1974	(C240 eng)	4	10.5	12	<b>PI42</b>
			4	20.5	24	<b>PI43</b>
ELF350, KS20	1970-1972	(C330 eng)	4	20.5	24	<b>PI43</b>
ELF350, KS21	1973-1979	(4BB1 eng)	4	20.5	24	<b>PI44</b>

#### DAEWOO

##### MUSSO

	1998-	(2.9TD eng)	5	11.5	12	<b>B078</b>
--	-------	-------------	---	------	----	-------------

#### DAIHATSU

##### 4WD

	1978-3/1984	(DG eng) F50,F55	4	8.5	12	<b>PT104</b>
	11/1982 -	(DL eng) F60,F65	4	7	12	<b>PD190</b>
BUS SV37	1970-1973	(DG eng)	4	8	12	<b>PD99</b>

##### CHARADE

CL	1/1983-	(CL10.60 eng)	3	7	12	<b>PD190</b>
Turbo Man trans	9/1984-	(CL50 eng)	3	7	12	<b>PD190</b>

##### DELTA

DV26,SV18,26	1972-7/1977	(DG eng)	4	8	12	<b>PD-99</b>
V20, V22, V24, V26	1982-9/1984	(DG eng)	4	8.5	12	<b>PT104</b>
V50, V52, V54, V55 V56, V57, V58	10/1982-1995	(DL eng)	4	7	12	<b>PD190</b>
V10, V11, V18	8/1977-9/1980	(B eng)	4	20.5	24	<b>PT109</b>
V98, V99	9/1984-	(B eng)	4	8.5	12	<b>PT104</b>
V10,11,12,15,98,98D,99	9/1980-7/1988	(B eng)	4	14	24	<b>PT141</b>
V40,V48,V90, V92	- 9/1984	(B eng)	4	20.5	24	<b>PT109</b>
V98,V98D,V99	8/1988-4/1995	(B eng)	4	23	24	<b>PT153</b>
V40,V42,V47,V48	2/1983-7/1984	(3B eng)	4	10.5	12	<b>PT145</b>
BU100N,BU105N	5/1995 -	(3B eng)	4	23	24	<b>PT153</b>
V75,V76,V78,V79	9/1984-8/1988	(13B eng)	4	14	24	<b>PT141</b>
V115,V116,V118,V119	8/1988-4/1995	(14B eng)	4	23	24	<b>PT153</b>

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### DAIHATSU Cont..

##### DELTA Cont...

CB21G	8/1988-	(2C-T eng)	4	7	12	PD190
XZ300 / XZU400 SERIES	5/1999-	(J050C/S050C/S05D eng)	4	23	24	PH26

##### DELTA WIDE CABIN

CB26V	5/1983-8/1987	(1C eng)	4	7	12	PD190
CB26V	8/1987-8/1988	(1C eng)	4	11	12	PT150
CB21G	5/1983-8/1985	(2C eng)	4	7	12	PD190
CB27V, CB27V	8/1988-8/1995	(2C eng)	4	11	12	PT150
CB27V	8/1995-11/1996	(2C eng)	4	11	12	PT154**
CB21G	8/1985-8/1987	(2C-T eng)	4	7	12	PD190
CB21G,	8/1987-8/1995	(2C-T eng)	4	11	12	PT150
CB22G,CB31G	9/1993-11/1996	(3C-T eng)	4	11	12	CP22

##### ROCKY

F70V,F75V,	5/1984-	(DL,DL50 eng) 2.8L	4	7	12	PD190
------------	---------	--------------------	---	---	----	-------

##### RUGGER

	5/1985-	(DL, DL50 eng)	4	7	12	PD190
--	---------	----------------	---	---	----	-------

##### TAFT

	8/1978-11/1982	(DG eng)	4	8.5	12	PT104
	12/1982-4/1984	(DL eng)	4	7	12	PD190
	5/1984-1989	(DL50 eng)	4	7	12	PD190
	8/1993-7/1998	(DL52 eng)	4	7	12	PD190

#### FORD

##### COURIER 2200

	3/1985-1996	(R2 ohc eng)	4	10.5	12	PZ33
2200	2/1981-3/1985	(S2 ohv eng)	4	12	12	PZ30
2200	1989-1996	(R2 eng)	4	10.5	12	PZ33
PD	1996-1/1999	(WL eng) 2.5L	4	11	12	PZ39
PD	1997-9/99	(WL-T eng) 2.5L	4	11	12	PZ39
PE	2/1999-2002	(WL,T eng) 2.5L	4	11	12	CP60
	2002-	(WL-T eng) 2.5L	4	11	12	CP60

(\*) Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### FORD Cont...

##### ECONOVAN 2200

1981-1984	(S2 ohv eng)	4	12	12	<b>PZ30</b>
1984-	(R2 ohc eng)	4	10.5	12	<b>PZ33</b>
1984-1996	(RF eng)	4	10.5	12	<b>PZ33</b>
1996-1999	(R2 eng)	4	11	12	<b>PZ36</b>
1997-2002	(WL eng)	4	11	12	<b>CP60</b>

##### F100-350 USA

1983-1986	(6.9L 420 cu. in.eng)	8	6	12	<b>PA302</b>	
1987	(6.9L 420 cu. in. eng)	8	5	12	<b>PA305</b>	
1988-1995	(7.3L 446 cu. in.eng)	8	5	12	<b>PA305</b>	
VAN/WAGON	1990-	(7.3L 446 cu. in.eng)	8	5	12	<b>PA305</b>

##### MAVERICK

2/1988-9/1993	(TD42 eng)	6	11	12	<b>PN135</b>
3/1993-	(TD27,TD27T eng)	4	11	12	<b>PN138</b>
9/1996-	(TD27ETi eng)	4	11	12	<b>CP03</b>
6/1997-	(QD32ETi eng)	4	11	12	<b>CP03</b>

##### SPECTRON

1985-1993	(RF eng)	4	10.5	12	<b>PZ33</b>
1993-	(R2 eng)	4	12	12	<b>PZ37</b>

##### TRADER

1978-1980	(HA eng) Tin rocker cover	4	12	12	<b>PZ30</b>
1977-1980	(HA eng)	4	23	24	<b>PZ31</b>
1981-1984	(HA eng) Alloy rocker cover	4	10.5	12	<b>PZ33</b>
1981-7/1989	(ZB eng)	6	23	24	<b>PZ31</b>
6/1978-12/1985	(2.4L eng)	4	11	12	<b>B053</b>
8/2000 -	(2.0L eng)	4	11.5	12	<b>B101**</b>
1/2000 -	(2.4DI eng)	4	11.5	12	<b>B101**</b>

##### TRANSIT VAN

1971-1979	(2.4L eng ) J York	4	11	12	<b>B053</b>	
1994-2000	(4D eng)	4	11	12	<b>B053</b>	
F4FA, D2FA, D4FA	1/2000 -	(2.4DI eng)	4	11	12	<b>B101</b>

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### GMC

C15-35	1988-1993	6.2L 380 cu. in.	8	6	12	PA303
	1992-1995	6.5L 395 cu. in.	8	6	12	PA303
G15-35	1984-1993	6.2L 380 cu. in.	8	6	12	PA303
K15-35	1978-1979	5.7L 350 cu. in.	8	11	12	PA301
	1980-1983	5.7L 350 cu. in.	8	6	12	PA302
	1981-1993	6.2L 380 cu. in.	8	6	12	PA303
P15-35	1982-1993	6.2L 380 cu. in.	8	6	12	PA303
R15-35	1985-1993	6.2L 380 cu. in.	8	6	12	PA303
V15-35	1987-1992	6.2L 380 cu. in.	8	6	12	PA303

#### HINO

BUS BM320 (Import)	1970-1976	(DM100 eng)	6	19	24	PH21
BUS AM100, RL100	1970-1979	(EC100 eng)	6	19	24	PH21
BUS RE100,RE120,RE140	1970-	(EB200 eng)	6	19	24	PH21
BUS RD300, RL300, RL320	1975-	(EH300 eng)	6	19	24	PH21
BUS RE101, RE161,RE121	1977-	(EB400 eng)	6	19	24	PH21
AM101	1988-	(EH100 eng)	6	19	24	PH21
RX4,RH4	1995-	(JO5C eng)	6	23	24	PH26

#### RANGER

	1971-	(DQ100, EH100, EH300 eng)	6	19	24	PH21
	1978-1982	(B eng)	4	19	24	PT94
	1983-	(B eng)	4	14	24	PT141
	1979-1982	(3B eng)	4	20.5	24	PT109
	1983-	(3B eng)	4	14	24	PT141
	1984-1986	(EM100 eng)	6	10.5	12	PH25
	1984-	(W04D eng)	4	23	24	PH22
	1985-	(H06C / H07C eng)	6	23	24	PH22
	1987-1991	(W04C eng)	4	10.5	12	PH25
	1986-1987	(W06E eng)	4	10.5	12	PH25
	1992-	(W04C-TH eng)	4	10.5	12	PH25
	1984-1991	(H06C / H07C eng)	6	10.5	12	PH25
	1993-1997	(H06C-TP / TN / TM eng)	6	10.5	12	PH25
	1995-	(JO5C eng)	6	23	24	PH26
	1970-1976	(EB300 eng) (Import)	6	19	24	PH21
	1993-1997	(HO6C, TM eng)	6	23	24	PH25
	1995-	(JO5C eng)	6	23	24	PH26

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG VOLTAGE	BATTERY VOLTAGE	HKT NO.
-------------	------	--------	-----	-----------------	--------------------	---------

**Please ensure that the voltage of the glow plug is correct for the application!**

#### HOLDEN

##### ASTRA

CDTi (Manual transmission)	2005-	Z19TD	4	11	12	
	8/2000-	Y22DTR Dti 2.2L	4	11	12	

##### GEMINI

10/1979-9/1981	(4FB1 eng)	4	5	12	<b>PI46</b>
12/1988-	(4EC1 eng)	4	11	12	<b>PI58</b>

##### JACKAROO

USB52	9/1981-7/1987	(C223 eng)	4	5	12	<b>PI46</b>
USB16	8/1987-7/1990	(C223 / T eng)	4	11	12	<b>PI58</b>
USB55	8/1990-7/1992	(4JB1 Turbo)	4	11	12	<b>PI49</b>
USB69	8/1992 -5/1998	(4JG2 / T) 3.1L	4	11	12	<b>PI59</b>
USB73	6/1998-2002	(4JX1) 3.0L Direct Injection Common Rail	4	11	12	<b>PI172</b>

##### RODEO

KBD20.KBD25,KBD40	1978-9/1979	(C190 eng)	4	10.5	12	<b>PI42</b>
	1978-9/1979	(C190 eng)	4	9	12	<b>PI45</b>
KBD21, KBD26, KBD41	10/1979-	(C190 eng)	4	5	12	<b>PI46</b>
KBD22, KBD27, KBD42, KBD47	12/1982-7/1987	(C223 eng)	4	5	12	<b>PI46</b>
KBD22, KBD42, KBD47	8/1987-10/1988	(C223 eng)	4	11	12	<b>PI58</b>
TRF55	1989-1990	(4JB1 eng)	4	11	12	<b>PI170</b>
TRF55, TFS	1/1990 -2002	(4JB1 + Turbo ) 2.8L	4	11	11	<b>PI49</b>
USB73	6/1998-2002	(4JX1) 3.0L Direct Injection	4	11	12	<b>PI172</b>
RA	3/2003-2006	(4JH1) 3.0L	4	11	12	<b>PI49</b>
	2007-2008	(4JJ1-TC eng) 3.0 Ddi Common Rail	4	11	12	<b>PI175</b>

##### SHUTTLE

WFR50, WRF51	1/1981-6/1982	(4FB1, 4FC1 eng)	4	5	12	<b>PI46</b>
WRF62	8/1990-	(4FG1 eng)	4	11	12	<b>PI59</b>
TR Series	1970-1972	(D500 eng)	6	20.5	24	<b>PI43</b>
TSD / TWD Series	1976-1/1984	(6BD1 eng)	6	20.5	24	<b>PI44</b>
UD Series	1972-1979	(C240 eng)	6	10.5	12	<b>PI42</b>
VBR Series	1972-1984	(6BB1 eng)	6	20.5	24	<b>PI44</b>
VCR Series	1976-1/1984	(6BD1 eng)	6	20.5	24	<b>PI44</b>
VDR Series	1979-	(6BF1 eng)	6	20.5	24	<b>PI44</b>
WFR Series	1/1981-6/1982	(4FB1, 4FC1 eng)	4	5	12	<b>PI46</b>
YBR Series	1972-1977	(6BB1 eng)	6	20.5	24	<b>PI44</b>

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG VOLTAGE	BATTERY VOLTAGE	HKT NO.
-------------	------	--------	-----	-----------------	--------------------	---------

**Please ensure that the voltage of the glow plug is correct for the application!**

#### HONDA

##### JAZZ

UCS69DWH	10/1993-	(4JG2 eng)	4	11	12	PI59
----------	----------	------------	---	----	----	------

##### HORIZON

UBS69GWH	2/1994-	(4JG2 eng)	4	11	12	PI59
----------	---------	------------	---	----	----	------

#### HYUNDAI

##### H100

	-1994	(2.5D eng)	4	12	12	PM75
--	-------	------------	---	----	----	------

##### GALLOPER 11, H100

	4/1994-	(2.5TD eng)	4	11	12	PM166
--	---------	-------------	---	----	----	-------

	1999-	(2.7TD eng)	4	11	12	PM167
--	-------	-------------	---	----	----	-------

##### SANTA FE

	10/2002-	(CRDi eng) 2.0L	4		12	B110
--	----------	-----------------	---	--	----	------

#### IVECO

##### DAILY

8140.63	6/1998-	(2.8L eng)	6	11	12	B097
---------	---------	------------	---	----	----	------

#### INTERNATIONAL / IHC

##### CARGOSTAR

	1983-1987	6.9L 420cu. in.	8	6		PA302
--	-----------	-----------------	---	---	--	-------

	1988-1994	7.3L 445 cu. in.	8	5		PA305
--	-----------	------------------	---	---	--	-------

S1600-2100	1986	6.9L 420 cu. in.	8	6		PA302
------------	------	------------------	---	---	--	-------

	1987	6.9L 420 cu. in.	8	5		PA305
--	------	------------------	---	---	--	-------

S2200-2600	1986	6.9L 420 cu. in.	8	6		PA302
------------	------	------------------	---	---	--	-------

	1987	6.9L 420 cu. in.	8	5		PA305
--	------	------------------	---	---	--	-------

	1987-1995	7.3L 445 cu. in.	8	5		PA305
--	-----------	------------------	---	---	--	-------

COMMERCIAL V8 Engines	1983-1985	6.9L 420 cu. in.	8	6		PA302
-----------------------	-----------	------------------	---	---	--	-------

	1986-1988	6.9L 420 cu. in.	8	5		PA305
--	-----------	------------------	---	---	--	-------

#### ISUZU (Includes some Bedford and Forward models)

BE Series	1973-on	(4BB1 eng)	4	20.5	24	PI44
-----------	---------	------------	---	------	----	------

BK / BY Series	1973-2/1984	(6BB1, DBRI eng)	6	20.5	24	PI44
----------------	-------------	------------------	---	------	----	------

	1972-1973	(D500 eng)	6	20.5	24	PI43
--	-----------	------------	---	------	----	------

BLD Series	1973-1978	(4BA1 eng)	4	20.5	24	PI43
------------	-----------	------------	---	------	----	------

	1980-	(4BA1, 4BC1 eng)	4	9.5	24	PI48
--	-------	------------------	---	-----	----	------

	7/1981-	(4BC2 eng)	4	20.5	24	PI44
--	---------	------------	---	------	----	------

	1969-1980	(C240 eng)	4	10.5	12	PI42
--	-----------	------------	---	------	----	------

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

ISUZU Cont...	(Includes some Bedford and Forward models)					
CCM / ECM Series	1976-2/1984	(6BD1, 6BD1T eng)	6	20.5	24	PI44
FBR / JBR Series	1972-1977	(6BB1 eng)	6	20.5	24	PI44
FCR / FDR Series	1976-1/1984	(4BD1, 4BF1 eng)	4	20.5	24	PI44
FRR Series	1979-	(6BG1, 6BD1T, 6HE1 eng)	6	20.5	24	PI44
FRR Series	2/1995-	(6HH1 eng)	6	23	24	PI50
JCR / JCS / JDR Series	1976-1/1984	(6BD1, 6BF1 eng)	6	20.5	24	PI44
KAD Series	10/1970-9/1978	(C190 eng)	4	10.5	12	PI42
	10/1977-10/1979	(C190 eng)	4	9	12	PI45
	1978-10/1979	(C240 eng)	4	9	12	PI45
	1978-10/1979	(C240 eng)	4	20.5	12	PI43
	1979-	(C240 eng)	4	5	12	PI46
KS Series	1970-1980	(4BB1, 4BD1, C330 eng)	4	20.5	24	PI44
KT Series	10/1979-6/1981	(4BC1 eng)	4	9.5	24	PI43
	7/1981-6/1984	(4BC2 eng)	4	20.5	24	PI44
LR / LT Series	1976-2/1984	(6BD1, 6BD1T eng)	6	20.5	24	PI44
	1984-	(6BG1 eng)	6	20.5	24	PI44
SBR Series	1972-	(6BB1 eng)	6	20.5	24	PI44
	1972-	(D500 eng)	6	20.5	24	PI43
SCR / SCS Series	1976-1/1984	(6BD1, 6BF1 eng)	6	20.5	24	PI44
ELF150	7/1984-	(4JA1, 4JB1 eng)	4	11	12	PI49
	7/1993-	(4JG2 eng)	4	11	12	PI59
ELF250, ELF350	1972-9/1978	(4BA1 eng)	4	20.5	24	PI43
	1980-6/1984	(4BA1 eng)	4	9.5	24	PI48
ELF250, ELF350	-1969	(C221 eng)	4	10.5	12	PI42
	1970-1972	(C240 eng)	4	10.5	12	PI42
	1970-9/1977	(C240 eng)	4	20.5	24	PI43
	10/1977-1/1980	(C240 eng)	4	9	12	PI45
	10/1977-1/1980	(C240 eng)	4	10.5	12	PI42
	10/1977-1/1980	(C240 eng)	4	20.5	24	PI43
	2/1980-6/1984	(C240 eng)	4	5	12	PI46
	7/1984-	(4JA1, 4JB1, 4JB1-2 eng)	4	11	24	PI49
	8/1990-	(4FE1 eng)	4	23	24	PI50
	7/1993-	(4BE1, 4BE2, 4HF1 eng)	4	23	24	PI50

continued on next page

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### ISUZU Cont... (Includes some Bedford and Forward models)

ELF250, ELF350 Cont...	7/1993-	(4JG2 eng)	4	11	12	<b>PI59</b>
	4/1990-	(6BG1, 6HE1 eng)	6	20.5	24	<b>PI44</b>
	2/1995-	(6HH1 eng)	6	23	24	<b>PI50</b>
KH-UBS73 TROOPER	6/1998-	(4JX1 eng) Common Rail	4	11	12	<b>PI172</b>
ELF- KR-NKR81,NPR81,NKS81		(4HL1 eng) 16v	6	24	24	<b>PI173</b>
ELF- KR-NPR72,NPS72		(4HJ1 eng) 16v	6	24	24	<b>PI173</b>
	2005-	(4JJ1-TC eng) 3Ddi Common Rail	4	11	12	<b>PI175</b>

#### JEEP (USA)

##### CHEROKEE

	1/1987-8/1994	(2.1TD eng) Renault J8S 814	4	11	12	<b>B081</b>
	1/1988-1/1991	(2.1TD eng) Renault J8S 890	4	11	12	<b>B081</b>
	2/1991-8/1994	(2.1TD eng) Renault J8S 890	4	11	12	<b>B076</b>
	9/1994-	(2.5TD eng) VM HR 425 CLIRX	4	11	12	<b>B081</b>

##### GRAND CHEROKEE

	5/1995-	(2.5TD eng) VM-HR 425	4	11	12	<b>B086</b>
	4/1998-	(2.5TD ENC, 3.1TD EXA eng)	5	11	12	<b>B086</b>
XJ	4/1984-12/1987	(2.0TD eng) Renault J8S 814	4	11	12	<b>B081</b>

#### KIA

##### CERES

	1992-1997	(S2 eng)	4	12	12	<b>PZ30</b>
--	-----------	----------	---	----	----	-------------

##### PREGIO

	2002-	(J2 eng) 2.7L	4	11	12	<b>PZ38</b>
--	-------	---------------	---	----	----	-------------

##### SPORTAGE TD

	7/1993-	(Mazda eng) 2.0L	4	11	12	<b>PZ38</b>
	1996-	(Koot, K082) 2Lt -TD	4	11	12	<b>PZ39</b>

##### SORENTO

	8/2002-	(CRDi eng) 2.5DT	4		12	<b>B120</b>
--	---------	------------------	---	--	----	-------------

#### LADA

##### NIVA 4X4

	5/1984-	(Mot. Peugeot eng)	4	11	12	<b>B081</b>
	10/1993-	(1.9L P XUD 9L eng)	4	11	12	<b>B081</b>

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

## HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG VOLTAGE	BATTERY VOLTAGE	HKT NO.
-------------	------	--------	-----	-----------------	--------------------	---------

**Please ensure that the voltage of the glow plug is correct for the application!**

### LANDROVER

#### DEFENDER

1/1999-	(2.5 TDI eng)	4	11	12	<b>B118</b>
---------	---------------	---	----	----	-------------

#### DISCOVERY

10/1995-	(2.5TDI eng)	4	11.5	12	<b>B074</b>
----------	--------------	---	------	----	-------------

1/1999-	(2.5 TDI eng)	4	11	12	<b>B118</b>
---------	---------------	---	----	----	-------------

#### FREELANDER

1997-2000	(20TL eng) 2L	4	11	12	<b>B085</b>
-----------	---------------	---	----	----	-------------

### MAZDA

#### B2200 / E2200

K-BA2S8, 8H, 8V, BA2S9,9V, N-BA2S8	1980-1985	(S2 ohv eng)	4	12	12	<b>PZ30</b>
------------------------------------	-----------	--------------	---	----	----	-------------

N-SR2AM, 2AV, 2AT, N-SE28M, U-SD29M, 29T, U-SE28M, S-SS28M	1984-1996	(R2 ohc eng)	4	10.5	12	<b>PZ33</b>
---------------------------------------------------------------	-----------	--------------	---	------	----	-------------

KC-SR2AM, 2AV ,29V	8/1995-5/1997	(R2 eng)	4	12	12	<b>PZ37</b>
--------------------	---------------	----------	---	----	----	-------------

KC-SD2AM,2AT,29M,KB-SD29T	5/1997-6/1999	(R2 eng)	4	11	12	<b>PZ36</b>
---------------------------	---------------	----------	---	----	----	-------------

#### BRAVO B2500

KC-SD5AM,5AT,59M, 59T KC-SR59V, 5AM, 5AV	1/1996-1999	(WL,WL-T eng)	4	11	12	<b>PZ39</b>
---------------------------------------------	-------------	---------------	---	----	----	-------------

KG-SK54V, 56V,5HV,56M,5HM	1999-2002	(WL eng)	4	11	12	<b>CP60</b>
---------------------------	-----------	----------	---	----	----	-------------

KG-SK54T,56T,54L,56L B2900	2002-	(WL-T eng) 2.5L	4	11	12	<b>CP60</b>
-------------------------------	-------	-----------------	---	----	----	-------------

#### E2500

1977-1981	(XA eng)	4	12	12	<b>PZ30</b>
-----------	----------	---	----	----	-------------

10/1984-	(XA eng)	4	10.5	12	<b>PZ33</b>
----------	----------	---	------	----	-------------

10/1984-	(XA eng)	4	23	24	<b>PZ31</b>
----------	----------	---	----	----	-------------

1996-2002	(WL eng)	4	11	12	<b>CP60</b>
-----------	----------	---	----	----	-------------

#### E3000, PARKWAY

1977-1981	(HA eng) Tin rocker cover	4	12	12	<b>PZ30</b>
-----------	---------------------------	---	----	----	-------------

#### T3000

1981-5/1984	(HA eng) Alloy rocker	4	10.5	12	<b>PZ33</b>
-------------	-----------------------	---	------	----	-------------

#### T4100

1981-1991	(ZB eng) Alloy rocker	6	23	24	<b>PZ31</b>
-----------	-----------------------	---	----	----	-------------

#### BONGO

10/1979-	(S2 eng)	4	12	12	<b>PZ30</b>
----------	----------	---	----	----	-------------

N-SR2AM, N-SD29M, N-SE28	3/1983-9/1993	(R2, RF eng)	4	10.5	12	<b>PZ33</b>
--------------------------	---------------	--------------	---	------	----	-------------

9/1993-1996	(R2 eng)	4	12	12	<b>PZ37</b>
-------------	----------	---	----	----	-------------

11/1996-1999	(R2 eng)	4	11	12	<b>PZ36</b>
--------------	----------	---	----	----	-------------

8/1995-5/1997	(R2 eng)	4	12	12	<b>PZ37</b>
---------------	----------	---	----	----	-------------

continued next page

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### MAZDA Cont...

##### BONGO Cont...

KF,KJ,KG	6/1999-	(R2 eng)	4	11	12	<b>CP60</b>
SR	7/1992-5/1997	(VS eng)	4	11	12	<b>PZ36</b>
SRF	9/1994-	(VS eng)	4	11	12	<b>PZ702</b>
SRF9W	8/1987-8/1993	(RF.T eng )	4	10.5	12	<b>PZ33</b>
SRF9W, SSF8R, 8W	8/1993-9/1995	(RF.T eng)	4	12	12	<b>PZ37</b>
SSF8R, 8W	9/1995-6/1999	(RF.T, RFIT eng)	4	11	12	<b>PZ702</b>
SGL3, L5, LW, LR	6/1997-99	(WL-T eng)	4	11	12	<b>PZ39</b>
SK54, 56	6/1999-	(WL/WL-T eng)	4	11	12	<b>CP60</b>

##### BOXER

	11/1974-	(ZC eng)	4	22.5	24	<b>PM60</b>
J80	1983-	(RF eng)	4	10.5	12	<b>PZ33</b>

##### LUCE

	10/1983-9/1986	(S2 eng)	4	12	12	<b>PZ35</b>
--	----------------	----------	---	----	----	-------------

##### MPV

LVLW, LVLR	10/1995-6/1999	(WL-T eng)	4	11	12	<b>PZ39</b>
------------	----------------	------------	---	----	----	-------------

##### SPECTRON

	1983-	(RF eng)	4	10.5	12	<b>PZ33</b>
	8/1993-	(R2 eng)	4	12	12	<b>PZ37</b>

#### MERCEDES

##### C180

OM604	10/1998-5/200	(1.8D eng)	4	11.5	12	<b>B082</b>
-------	---------------	------------	---	------	----	-------------

##### C200

OM601.913	7/1993-5/2000	(2.0D eng)	4	11.5	12	<b>B078</b>
OM604.915	10/1996-5/2000	(2.0D eng)	4	11.5	12	<b>B082</b>
OM611.960	3/1998-5/2000	(2.0CDI eng)	4	11.5	12	<b>B099</b>

##### E270

OM612.962	7/1999-	(2.7CDI eng)	5	11.5	12	<b>B099</b>
-----------	---------	--------------	---	------	----	-------------

##### E300

OM603.960	7/1993-5/1995	(3.0TD eng)	6	11.5	12	<b>B078</b>
OM606.910	7/1993-5/1995	(3.0D, 3.0TD eng)	6	11.5	12	<b>B095</b>
OM606.910	6/1995-6/1996	(3.0TD eng)	6	11.5	12	<b>B082</b>
OM603.960	7/1993-5/1995	(3.0TD, 3.0TD 4Matic eng)	6	11.5	12	<b>B078</b>
OM606.912 / OM606.962	3/1995-	(3.0TD, 3.0TD/E 300T TD eng)	6	11.5	12	<b>B082</b>

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### MERCEDES Cont...

##### E320 / S320

OM613.961 / 960	7/1999-	(3.2CDI eng)	6	11.5	12	<b>B099</b>
-----------------	---------	--------------	---	------	----	-------------

##### ML270

OM612.963	2/1998-	(2.7CDI eng)	5	11.5	12	<b>B099</b>
-----------	---------	--------------	---	------	----	-------------

##### SPRINTER

OM602.980.10, 12 DELA	2/1995-	(2.9 212D eng)	5	11	12	<b>B081</b>
-----------------------	---------	----------------	---	----	----	-------------

OM602.980.10,12 DELA / OM602.986	2/1995-	(2.9 212D, 2.9 412D eng)	5	11	12	<b>B067</b>
----------------------------------	---------	--------------------------	---	----	----	-------------

OM602.986,OM602.980.10,12 DELA	4/1995-	(2.9 312D, 2.9 310D eng)	5	11	12	<b>B067</b>
--------------------------------	---------	--------------------------	---	----	----	-------------

OM602.980.10,12 DELA	4/1995-	(2.9 312D, 2.9 412D eng)	5	11	12	<b>B081</b>
----------------------	---------	--------------------------	---	----	----	-------------

##### VITO

OM611A, OM611.960, OM611.980	3/1999-	(108CDI, 110CDI, 112CDI eng)	4	11.5	12	<b>B099</b>
------------------------------	---------	------------------------------	---	------	----	-------------

OM601.942, OM601.970	2/1996-2001	(108D, 110TD, 308INT eng )	4	11.5	12	<b>B078</b>
----------------------	-------------	----------------------------	---	------	----	-------------

#### MITSUBISHI

##### BUS

BUS MK103, MM504	1974-1978	(6D10, 6D11 eng)	6	21	24	<b>PM66</b>
------------------	-----------	------------------	---	----	----	-------------

BUS B820, M(A)R410 MR470, MR520	1968-1978	(6DB1 eng)	6	22.5	24	<b>PM60</b>
------------------------------------	-----------	------------	---	------	----	-------------

BUS MR540, MR620	1968-1971	(6DS1 eng)	6	22.5	24	<b>PM60</b>
------------------	-----------	------------	---	------	----	-------------

BUS B622	1964-1978	(6DS3 eng)	6	22.5	24	<b>PM60</b>
----------	-----------	------------	---	------	----	-------------

##### CANTER

T96,98,200,210,220,K-FE100,FE120	1971-9/1985	(4DR5 eng)	4	10.5	12	<b>PM63**</b>
----------------------------------	-------------	------------	---	------	----	---------------

K-FB100, FB120	12/1973-4/1983	(4DR5 eng)	4	22.5	24	<b>PM65**</b>
----------------	----------------	------------	---	------	----	---------------

T210, K-FB100, FB120	9/1982-9/1985	(4DR5 eng)	4	20.5	24	<b>PM74**</b>
----------------------	---------------	------------	---	------	----	---------------

K-FB300,FE300	10/1985-10/1998	(4DR5 eng)	4	11	12	<b>PM77**</b>
---------------	-----------------	------------	---	----	----	---------------

K-FE111,FE211,FE121,FE221	1978-12/1983	(4D30 eng)	4	20.5	24	<b>PM73</b>
---------------------------	--------------	------------	---	------	----	-------------

N-FE101, FE111, FE121, FE211	5/1983-9/1985	(4D30 eng)	4	24	24	<b>PM160**</b>
------------------------------	---------------	------------	---	----	----	----------------

N-FE301,FE401,U-FE301,FE311 U-FE321	10/1985-10/1993	(4D30 eng)	4	23	24	<b>PM78</b>
----------------------------------------	-----------------	------------	---	----	----	-------------

U-FE317,FE337,FE437,FE447,FE637	10/1989-10/1998	(4D33, 4D34T,4D36 eng)	4	23	24	<b>PM163</b>
---------------------------------	-----------------	------------------------	---	----	----	--------------

FB501A,FB501B, FB511A,FB511B	11/1993-9/1994	(4M40 eng)	4	11	12	<b>CP05</b>
------------------------------	----------------	------------	---	----	----	-------------

U-FB501,FB511,FD501,KC-FB501	9/1994-	(4M40 eng)	4	11	12	<b>PM165</b>
------------------------------	---------	------------	---	----	----	--------------

(\*) Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

## HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG VOLTAGE	BATTERY VOLTAGE	HKT NO.
-------------	------	--------	-----	-----------------	--------------------	---------

**Please ensure that the voltage of the glow plug is correct for the application!**

### MITSUBISHI Cont...

#### CHALLENGER

KD-K97WG,PE8W,PD8W,PF8W	9/1996-	(4M40/T eng)	4	11	12	<b>PM165</b>
-------------------------	---------	--------------	---	----	----	--------------

#### DELICA VAN (Import)

N-PO5W,P15W,P25W,P35W	6/1986-	(4D56T eng)	4	6.2	12	<b>CP06</b>
PA5W, PB5W, PC5W	6/1993-9/1997	(4D56T eng)	4	11	12	<b>CP07</b>
KB-P05V,KC-P15V,KD-P05W,PA5W	9/1997-	(4D56T eng)	4	11	12	<b>PM167</b>
PE8W, PD8W, PF8W,	5/1994-4/1996	(4M40 eng)	4	11	12	<b>CP05</b>
PE8W,PD8W, PF8W	4/1996-	(4M40 eng)	4	11	12	<b>PM165</b>

#### EXPRESS / L200/ L300 / STARWAGON

L200, MC,MDN-L0380,L068P	11/1982-5/1987	(4D55 eng) 2.3L	4	12	12	<b>PM75</b>
L300 EXPRESS, SF,SG,SJ, N-P05V P15V ,P25V ,N-L09P,LD69P	6/1986-5/1993	(4D56 eng) 2.5L	4	12	12	<b>PM75</b>
L039P	6/1993-3/1994	(4D56 eng) 2.5L	4	11	12	<b>PM164</b>
P05W,15W,PA5W,PB5W,PC5W,PA5V	6/1993-9/1997	(4D56,4D56T eng) 2.5L	4	11	12	<b>CP07</b>
KB-PO5V,05T,15V,KC-P15V,KD-P05W	9/1997-	(4D56T eng) 2.5L	4	11	12	<b>PM167</b>
KD-PE8W,PD8W,PF8W	5/1994-4/1996	(4M40T eng) 2.8L	4	11	12	<b>CP05</b>
KD-PE8W,PD8W,PF8W	4/1996-	(4M40T eng) 2.8L	4	11	12	<b>PM167</b>
EXPRESS, SJ	9/1999-	(4M41DI eng) 3.2L	4	11	12	<b>PM168</b>

#### PAJERO

NA,NB,NC N-L043G	5/1982-11/1982	(4D55,4D55T) (QGS)	4	6	12	<b>PM161</b>
ND,NE,NF, N-L043G,L044G,L049G	11/1982-11/1990	(4D55,4D55T,4D56,4D56T)	4	12	12	<b>PM75</b>
ND,NE V14V,V24C,V34C,V44W	1/1991-6/1993	(4D56,4D56T eng) 2.5L	4	6.2	12	<b>CP06</b>
NG,NH V24C,V24W,V24WG	7/1993-5/1997	(4D56,4D56T) (OE:CERAMIC TIP)	4	11	12	<b>CP07</b>
NH,NJ V26W,V26WG,KC-V46V V46W,KD-V46WG	1995-1997	(4M40T) 2.8L (OE: CERAMIC TIP)	4	11	12	<b>CP05</b>
NK, NL KC-V46V, KD-V46WG	1997-2003	(4M40T) 2.8L (OE: CERAMIC TIP)	4	11	12	<b>CP05</b>
NL, NM KH-V78W-L , KH-V68W-M	2000-2006	(4M41DI) 3.2L Direct injection	4	11	12	<b>PM168</b>

For extra help choosing the right glow plug for Pajero's and Triton's please refer to the Mitsubishi OE number cross reference in the back of this catalogue.

#### TRITON

ME,MF,MG,MH,MJ	1987-1993	(4D56)	4	11	12	<b>PM75</b>
ME,MF,MG,MH,MJ (OE: CERAMIC TIP)	7/1986-10/1994	(4D56T)	4	11	12	<b>CP07</b>
MJ (OE: METAL TIP)	10/1994-12/1996	(4D56,4D56T) 2.5L	4	11	12	<b>PM164</b>
MJ,MK (OE: CERAMIC TIP)	1993-1998	(4M40T) 2.8L	4	11	12	<b>CP05</b>
MK (OE: CERAMIC TIP)	1998-2002	(4M40T) 2.8L	4	11	12	<b>CP05</b>
MK	2000-2006	(4M41DI) 3.2L	4	11	12	<b>PM168</b>
	2007-	(4M41DI-D) 3.2L (Turbo intercooler)	4	11	12	<b>PM402**</b>

**NOTE!**

**REMOVE ALL DIRT AND CARBON BUILD UP FROM GLOW PLUG SEAT AND HOLE.  
THIS PROCEDURE IS OF PARTICULAR IMPORTANCE WHEN REPLACING CERAMIC TIPPED GLOW PLUGS.**

(\*) Behind part number means not available at time of printing.  
Part numbers and vehicle names are used for reference purposes only  
E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG VOLTAGE	BATTERY VOLTAGE	HKT NO.
-------------	------	--------	-----	-----------------	--------------------	---------

**Please ensure that the voltage of the glow plug is correct for the application!**

#### MITSUBISHI Cont...

##### TRUCK

FK103,T654, FM104 TRUCK	1974-1979	(6D10 eng, 6D11)	6	21	24	<b>PM66</b>
K100-K200,4K100,120TRUCK	1968-1977	(6DB1 eng)	6	22.5	24	<b>PM60</b>
T330-T482 TRUCK	1964-1977	(6DB10A eng)	6	22.5	24	<b>PM60</b>
T620-T650 TRUCK	1968-1972	(6DS1 eng)	6	22.5	24	<b>PM60</b>
T620-T626 TRUCK	1969-1970	(6DS10A eng)	6	22.5	24	<b>PM60</b>
T652-T653 TRUCK	1972-1976	(6DS3 eng)	6	22.5	24	<b>PM60</b>
T630-T663,FK102,K-FK102 TRUCK	1970-1980	(6DS5,6DS7 eng)	6	20.5	24	<b>PM71</b>

#### NISSAN / DATSUN

REG22, N-EH40, YGF22	2/1982-	(SD23 eng)	4	23	24	<b>PN124</b>
ATLAS K-YF22, YGF22	8/1985-	(SD23 eng)	4	11	12	<b>PN132</b>
ATLAS K-EF22, EGF22, REG22,N-EH40, K-EH40	12/1981-	(SD25 eng)	4	23	24	<b>PN124</b>
ATLAS K-EH40	12/1981-	(SD25 eng)	4	10.5	12	<b>PN128</b>
ATLAS N-EF22, EGF22, VEGF22	8/1985-	(SD25 eng)	4	11	12	<b>PN135</b>
ATLAS N-TF22,TGF22	11/1986-	(TD23 eng)	4	11	12	<b>PN135</b>
ATLAS N-AF22, AGF22, VAG22, AH40	11/1986-	(TD27 eng)	4	11	12	<b>PN135</b>

##### AD-VAN

WEY10	8/1993-	(CD20 eng)	4	11	12	<b>CP02</b>
-------	---------	------------	---	----	----	-------------

##### CABALL

10/1967-12/1972	(SD22 eng)	4	10.5	12	<b>PN81</b>
10/1976-11/1977	(ED30 eng)	4	19	24	<b>PN82**</b>
11/1977-5/1980	(ED30 eng)	4	9.5	12	<b>PN122**</b>
6/1980-12/1981	(ED30 eng)	4	23	24	<b>PN130**</b>
6/1980-12/1981	(ED33 eng)	4	11	12	<b>PN123</b>

##### CABSTAR/HOMER

1/1976-8/1977	(SD22 eng)	4	10.5	12	<b>PN81</b>
11/1977-9/1979	(SD22 eng)	4	9.5	12	<b>PN86</b>
9/1979-1/1982	(SD22 eng)	4	11	12	<b>PN87</b>
1982-	(SD23 eng)	4	11	12	<b>PN123</b>
1982-	(SD23 eng)	4	23	24	<b>PN124</b>
1/1982-87	(SD25 eng)	4	10.5	12	<b>PN128</b>

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG VOLTAGE	BATTERY VOLTAGE	HKT NO.
-------------	------	--------	-----	-----------------	--------------------	---------

**Please ensure that the voltage of the glow plug is correct for the application!**

#### NISSAN / DATSUN Cont...

##### CABSTAR F22

1/1982-	(SD25 eng)	4	11	12	<b>PN123</b>
1/1982-	(SD25 eng)	4	23	24	<b>PN124</b>

##### CABSTAR F22, H40

(TD27 eng)	4	11	12	<b>PN135</b>
------------	---	----	----	--------------

##### CARAVAN KG-VWE25

(ZD30DD/ZD30DDTi eng)	6	11	12	<b>CP73</b>
-----------------------	---	----	----	-------------

##### CIVILIAN

GHQC240	9/1971-1/1973	(SD22 eng)	4	10.5	12	<b>PN81</b>
QYC240,QHYC340	11/1972-11/1976	(ED30 eng)	4	19	24	<b>PN82**</b>
GHYC340,K-GHY341	11/1977-5/1980	(ED30 eng)	4	9.5	12	<b>PN122**</b>
RW40,GW40, RYW40	5/1988-	(TD42 eng)	6	24	24	<b>PN136</b>
UBW40, BGW40	6/1990-	(ED35 eng)	4	24	24	<b>PN137</b>

##### TRUCK

ATLAS K-EF22,K-YF22, EGF22	12/1981-	(SD23 eng)	4	11	12	<b>PN123</b>
----------------------------	----------	------------	---	----	----	--------------

##### 720 UTE

R620	11/1978-9/1979	(SD22 eng)	4	9.5	12	<b>PN86</b>
K-S720,SG720,RSG720	10/1979-1/1982	(SD22 eng)	4	11	12	<b>PN87</b>
S720,SG720,SGY720,RSG720	1/1982-4/1983	(SD22 eng)	4	10.5	12	<b>PN128</b>
S720,SG720,SGY720,RSG720	1/1982-4/1983	(SD22 eng)	4	11	12	<b>PN123</b>
N-A720,AG720,AGY720	4/1983-10/1987	(SD23 eng)	4	10.5	12	<b>PN128</b>
N-AD21,AG21,AMD21	8/1985-10/1987	(SD23 eng)	4	11	12	<b>PN132</b>

##### NAVARA

D21 2WD/4WD	12/1981-10/1987	(SD25 eng)	4	11	12	<b>PN123</b>
D21 2WD/4WD	12/1981-10/1987	(SD25 eng)	4	10.5	12	<b>PN128</b>
D21	10/1987-3/1992	(TD23,TD25 eng)	4	11	12	<b>PN135</b>
D21	10/1987-1999	(TD27 eng)	4	11	12	<b>PN135</b>
D21	7/1993-1/1997	(TD27T eng)	4	11	12	<b>PN138</b>
D22	3/1999 -2002	(TD27 eng)	4	11	12	<b>PN135</b>
D22	1/1997-2001	(QD32 eng)	4	11	12	<b>CP03</b>
D22	2001-	(ZD30DDT eng)	4	11	12	<b>CP73</b>
D22	2002-	(YD25ETi, YD25DDTi eng)	4	11	12	<b>CP72</b>

##### PATHFINDER

R51	2006-	(YD25DDTi eng) 16v	4	11	12	<b>CP72</b>
-----	-------	--------------------	---	----	----	-------------

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

## HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

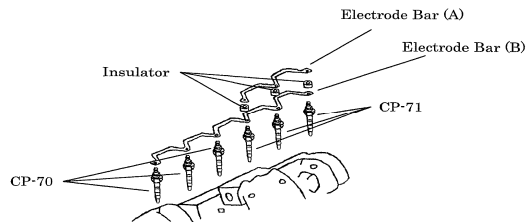
**Please ensure that the voltage of the glow plug is correct for the application!**

### NISSAN / DATSUN Cont...

#### PATROL

MQ, 160	- 6/1980	(SD33 eng)	6	10.5	12	<b>PN81</b>
MQ, 160	6/1980-7/1982	(SD33, SD33T eng)	6	23	24	<b>PN120</b>
MQ, 160, 161	7/1982-8/1983	(SD33,SD33T eng)	6	23	24	<b>PN124</b>
MQ, 160, 161	8/1983-7/1985	(SD33,SD33T eng)	6	11	12	<b>PN123</b>
MQ, 160, 161	10/1985-10/1987	(SD33,SD33T eng)	6	24	24	<b>PN131</b>
GQ, Y60 S-VR,SVRG,Q-WG,WR,WRG	11/1987-10/1997	(TD42 eng) 4.2L	6	24	24	<b>PN136</b>
WGY60,VRGY60,WRY60	10/1984-10/1997	(TD42 eng) 4.2L	6	11	12	<b>PN135</b>
KD-WRGY60,WRY60	1997-	(TD42T eng) 4.2L	6	11	12	<b>PN138</b>
GU, Y61 KD-WRGY61, KG-VRGY61	10/1997-1999	( TD42T eng)	6	11	12	<b>PN138</b>
GQ, Y60 WYY60	1995-1997	(RD28T eng) 2.8L	3	6.5	12	<b>CP70</b>
			3	6.5	12	<b>CP71</b>

Nissan RD28T is a 6 cylinder which requires two different plugs,  
 3 x CP70 in CYLINDERS 1,2,3. RUN PARALLEL.  
 3 X CP71 in CYLINDERS 4,5,6. RUN IN SERIES.  
 As CP71 runs closely in conjunction with CP70 it is important that all glow  
 plugs are the same HKT brand, otherwise it may create an improper  
 current to the glow plugs, resulting in an extremely short lifespan.



GU, Y61 KD-WYY61	1997-2001	(RD28 ETi eng)	6	11	12	<b>CP04</b>
GR, Y61 KH-WTY61, VVTY61	2000-	(ZD30DDTi eng)	4	11	12	<b>CP73</b>

#### TERRANO (Import)

N-VBY21,WBYD21	8/1986-	(TD27 eng)	4	11	12	<b>PN135</b>
Q-WBYD21	11/1988-1995	(TD27T eng)	4	11	12	<b>PN138</b>
PR50	9/1995-1999	(TD27Eti eng)	4	11	12	<b>CP03</b>
KD-PR50, RR50	6/1997-	(QD32ETi eng)	4	11	12	<b>CP03</b>
	1999-	(ZD30DDTi eng)	4	11	12	<b>CP73</b>

#### URVAN

E20, E21	3/1978-1980	(SD22 eng)	4	9.5	12	<b>PN 86</b>
E21	3/1978-1980	(SD22 eng)	4	20.5	12	<b>PN88**</b>
E23	9/1980-4/1982	(SD22 eng)	4	11	12	<b>PN87</b>
E23	9/1980-4/1982	(SD22 eng)	4	23	24	<b>PN120</b>
E23 VYE23, VYGE23	5/1982-9/1986	(SD23 eng)	4	11	12	<b>PN123</b>
CYGE23, DYGE23	5/1982-	(SD23 eng)	4	23	24	<b>PN124</b>
N-KSE23, KSGE23	5/1982-9/1986	(LD20,LD20T eng)	4	8.5	12	<b>PN129</b>
N-KSE23, KSGE23	5/1982-9/1986	(LD20, LD20T eng)	4	6.5	12	<b>PN121</b>
	6/1991-	(CD20,CD20T)	4	11	12	<b>CP02</b>

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

## HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG VOLTAGE	BATTERY VOLTAGE	HKT NO.
-------------	------	--------	-----	-----------------	--------------------	---------

**Please ensure that the voltage of the glow plug is correct for the application!**

### NISSAN / DATSUN Cont...

#### URVAN cont..

E24, CYGE24, N-VYE24	9/1986-8/1990	(TD23 eng)	4	11	12	<b>PN135</b>
RE24, GE24, ME24	10/1987-	(TD27 eng)	4	11	12	<b>PN135</b>
KRE24, CRGE24, VRGE24, ARME24	10/1988-8/1995	(TD27,TD27Ti eng)	4	11	12	<b>PN138</b>
KD-ARE24, KRE24, KC-VWE24, KDWGE24	8/1995-	(TD27Ti, QD32 eng)	4	11	12	<b>CP03</b>
KG-VWE25, VPE25		(ZD30DD, ZD30DDTi eng)	6	11	12	<b>CP73</b>

#### VANETTE

	6/1981-9/1982	(LD20 eng)	4	11	12	<b>PN89**</b>
GC22	10/1982-	(LD20,LD20T eng)	4	8.5	12	<b>PN129</b>
GC22	10/1985-	(LD20II eng)	4	11	12	<b>CP01</b>
	6/1991-	(CD20,CD20T eng)	4	11	12	<b>CP02</b>
	6/1999-	(R2 eng)	4	11	12	<b>CP60</b>

### OLDSMOBILE

Models 98, Ciera, Cutlass Delta 88, Tornado fitted with 260 cu. in. V6	1982-1983	(4.3L eng)	6	6	12	<b>PA302</b>
260 cu. in. V8	-1979	(4.3L eng)	8	11	12	<b>PA301</b>
260 cu. in. V8	1979-	(4.3L eng)	8	6	12	<b>PA302</b>
350 cu. in. V8	1977-1979	(5.7L eng)	8	11	12	<b>PA301</b>
	1979-	(5.7L eng)	8	6	12	<b>PA302</b>

### PEUGEOT

#### 504

XD2	6/1978-6/1983	(2.3D eng)	4	11	12	<b>B081</b>
-----	---------------	------------	---	----	----	-------------

#### 604

XD2S, XD2D	2/1979-6/1983	(2.3TD eng)	4	11	12	<b>B081</b>
XD3T	7/1983-6/1986	(2.5TD eng)	4	11	12	<b>B081</b>

### ROVER

#### LAND ROVER

12J	1/1985-12/1990	(2.25L, 2.3L, 2.5D eng)	4	11	12	<b>B081</b>
Country 110	1/1989-3/1994	(2.5TD eng)	4	11	12	<b>B049</b>
75 Series	2/1999-	(2.0CDT eng)	4	11	12	<b>B104</b>

#### DEFENDER, DISCOVERY

200TDI	9/1989-	(2.5TDI eng) Gemini 1,19L,23L	4	11.5	12	<b>B074</b>
--------	---------	-------------------------------	---	------	----	-------------

#### FREELANDER

TCI-E	3/1998-	(2.0DI eng)	4	11	12	<b>B085</b>
-------	---------	-------------	---	----	----	-------------

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### ROVER Cont..

##### RANGE ROVER

Gemini 1	9/1989-	(2.5TD eng)	4	11.5	12	<b>B074</b>
ETC 9091 N	1986-1994	(2.5TDI eng)	4	11.5	12	<b>B074</b>
BMW 5 TWC 2000	1/1995-	(2.5TDI eng)	4	11	12	<b>B081</b>
VOGUE VM HR-492, VM 425, SLIRR	1/1993-	(2.5TDI eng)	4	11	12	<b>B081</b>
BMW M51-025	9/1994-	(2.5DT, DSE eng)	6	11	12	<b>B081</b>

#### SEAT

	8/1993-	(1.9TDI eng) 1Z	4	11	12	<b>B077</b>
	2/1999-	(1.9TDI eng) AGR, AHF	4	11	12	<b>B077</b>

#### SSANGYONG

##### KORANDO

OM661	12/1996-1/1999	(2.3D eng)	4	11.5	12	<b>B078</b>
OM662	12/1996-	(2.9D eng)	5	11.5	12	<b>B078</b>

##### MUSSO

OM601	7/1993-1/1999	(2.3D eng)	4	11.5	12	<b>B078</b>
OM602,OM662	7/1993-	(2.9D eng)	5	11.5	12	<b>B078</b>

#### SUZUKI

##### VITARA

KD (ESCUDO)	10/1996-	(RF Turbo)	4	11	12	<b>CP60</b>
-------------	----------	------------	---	----	----	-------------

#### TATA

##### 4DL

	7/1988-	(206,207 eng)	4	11	12	<b>B081</b>
	2000-		4	11	12	<b>B080</b>

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG VOLTAGE	BATTERY VOLTAGE	HKT NO.
-------------	------	--------	-----	-----------------	--------------------	---------

**Please ensure that the voltage of the glow plug is correct for the application!**

#### TOYOTA

##### 4 RUNNER

LN60, LN61	8/1983-8/1985	(L eng)	4	11	12	PT144
LN60, LN61	8/1985-8/1988	(2L eng)	4	7	12	PT140
LN130R, LN135	8/1988-1998	(2LTEeng)	4	11	12	PT151
LN130R, LN135	8/1988-1998	( 3L eng)	4	11	12	PT151
KZN185	1992-1997	(1KZ-TE eng)	4	11	12	CP22

##### BLIZZARD

LD10	3/1980-10/1981	(L eng)	4	11	12	PT144
LD10,LD20,LD21	10/1981-2/1990	(L, 2L eng)	4	7	12	PT140
LD20,LD21	8/1983-2/1990	(2LT eng)	4	6	12	PT147
LD20,LD21	4/1994-	(2LTE eng)	4	11	12	PT151

##### COASTER

BU19	2/1972-10/1974	(B eng)	4	19	24	PT94
	11/1974-4/1982	(2B/3B eng)	4	8.5	12	PT104
BU19,BB10,	11/1974-4/1982	(2B eng)	4	20.5	24	PT109
K-BB20,30	5/1982-7/1989	(3B eng)	4	14	24	PT141
K-BB21, 31, 26V	1/1990-	(3B eng)	4	23	24	PT153
N-HB30	5/1982-1/1990	(2H eng)	6	14	24	PT141
U-HZB30,31,36V,HDB30,KC-HZB50	1/1990-	(1HDT, 1HZ eng)	6	23	24	PT153
KC-RX4, KK-RX4JFET	5/1999-	(JO5C eng)	4	23	24	PH26

##### DYNA

BU10, 12, 15	2/1972-10/1974	(B eng)	4	8	12	PT93
	2/1972-10/1974	(B eng)	4	19	24	PT94
BU10, 15, 20	10/1974-8/1980	(B eng)	4	8.5	12	PT104
BU10, 15, 20	10/1974-4/1982	(B eng)	4	20.5	24	PT109
BU20, 30, 60	8/1980-7/1989	(B eng)	4	10.5	12	PT145
BU20, 22,60,63	4/1982-7/1989	(B eng)	4	14	24	PT141
BU60, 70, 83	8/1988-5/1995	(B eng)	4	23	24	PT153
BU31	8/1977-8/1980	(2B eng)	4	8.5	12	PT104
	8/1977-8/1980	(2B eng)	4	20.5	24	PT109
	8/1980-	(2B eng)	4	10.5	12	PT145
	8/1980-	(2B eng)	4	23	24	PT108
BU36	8/1980-4/1982	(3B eng)	4	20.5	24	PT109
BU23,32,34,36	1982-1988	(3B eng)	4	14	24	PT141
BU100,105,110, 20V,140,145	5/1995-	(3B eng)	4	23	24	PT153

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### TOYOTA Cont...

##### DYNA cont..

JU10	2/1969-1/1973	(2J eng)	4	8	12	<b>PT90</b>
JU10, 12, 15, 20	1/1973-10/1974	(2J eng)	4	8.5	12	<b>PT104</b>
	1/1973-10/1974	(2J eng)	4	20.5	24	<b>PT109</b>
HU15	5/1972-10/1974	(H, 2H eng)	4	19	24	<b>PT94</b>
HU15, 30	10/1974-4/1982	(H, 2H eng)	4	20.5	24	<b>PT109</b>
HU26, 40, 50	4/1982-4/1983	(H, 2H eng)	4	14	24	<b>PT141</b>
LY50, LY60	8/1985-2/1988	(2L eng)	4	7	12	<b>PT140</b>
LY50, LY51, LY61, LY211	3/1988-1997	(2L, 3L eng)	4	11	12	<b>PT151</b>
LY102, LY132, LY220, LY230	1997-	(5L eng)	4	11	12	<b>PT155</b>
350 Series, XZU302,	5/1999-	(SO5D, SO5C, JO5C eng)	4	23	24	<b>PH26</b>

##### HIACE

LH20, 24, 30	7/1979-5/1981	(L eng) 2.2L	4	11	12	<b>PT144</b>
LH24, 50, 55, 60, 70	5/1981-1988	(L eng) 2.2L	4	7	12	<b>PT140</b>
LH51, 56, 61, 66, 71, 80	1/1984-7/1989	(2L eng) 2.4L	4	7	12	<b>PT140</b>
LH80, 85, 100, 102	8/1987-7/1989	(2L-T eng) 2.4L	4	6	12	<b>PT147</b>
LN85, LH103, 110, 113, 125	8/1989-1996	(2L, 2L-T, 2L-II, 3L eng)	4	11	12	<b>PT151</b>
KZH100G, 106G, 110G, 132V.	9/1993-	(1KZ-TE eng) 3.0L	4	11	12	<b>CP22</b>
LY101, LY111, LY151, LY161	8/1995-10/1996	(3L eng) 2.8L	4	11	12	<b>PT151</b>
LH103, LH113, LH125	8/1996-8/1998	(3L eng) 2.8L	4	11	12	<b>PT155</b>
LH162, LH172, LH184, LH186, LH188	8/1998-	(5L eng) 3.0L	4	11	12	<b>PT155</b>
KR-KDH200V, K, KDH205V, 220K	2005-2006	(2KD-FTV eng) 2.5L	4	11	12	<b>PT157</b>

##### HILUX

LN30, 40	7/1979-10/1981	(L eng) 2.2L	4	11	12	<b>PT144</b>
LN40, 46, 55, 56, 60, 65	10/1981-	(L, 2L eng)	4	7	12	<b>PT140</b>
LN56, 65	8/1983-8/1985	(2L eng) 2.4L	4	11	12	<b>PT144</b>
LN56, 65	10/1985-8/1988	(2L eng) 2.4L	4	7	12	<b>PT140</b>
LN61, 80, 85, LN130G	9/1988-	(2L eng) 2.4L	4	11	12	<b>PT151</b>
LN60V	11/1984-1997	(2LT eng) 2.4L	4	6	12	<b>PT147</b>
LN165, 170H	9/1997-	(2LTE eng) 2.4L	4	11	12	<b>PT155</b>
LN80, LN86, LN106, LN107, LN110	2/1988-1997	(3L eng) 2.8L	4	11	12	<b>PT151</b>
LN130 (SURF)	8/1990-9/1997	(2L-TE eng) 2.4L	4	11	12	<b>PT151</b>
LN147, LN152, LN167, LN172	10/1997-	(5L eng) 3.0L	4	11	12	<b>PT155</b>
KZN165, KZN185	1999-	(1KZ-TE eng) 3.0L	4	11	12	<b>CP22</b>
KH-KDN185 (Direct Injection) (SURF)	10/2006 -	1KD-FTV (3.0L)	4	11	12	<b>PT157</b>

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### LANDCRUISER

BJ40, 43	2/1974-7/1975	(B eng) 3.0L	4	8	12	<b>PT93</b>
	2/1974-1/1975	(B eng) 3.0L	4	19	24	<b>PT94</b>
	7/1975-10/1980	(B eng) 3.0L	4	8.5	12	<b>PT104</b>
BJ40, 43	1/1975-2/1979	(B eng) 3.0L	4	20.5	24	<b>PT109</b>
BJ41, 42, 44	2/1979-10/1981	(2B eng) 3.2L	4	20.5	24	<b>PT109</b>
	10/1981-9/1982	(2B, 3B eng)	4	14	24	<b>PT141</b>
BJ42, 60, 70, 73	10/1981-	(3B eng) 3.5L	4	10.5	12	<b>PT145</b>
BJ70, 73V	8/1963-1/1990	(3B eng) 3.5L	4	23	24	<b>PT153</b>
HJ45	4/1972-6/1973	(H eng) 3.6L	6	8	12	<b>PT90</b>
	6/1973-10/1974	(H eng) 3.6L	6	8	12	<b>PT93</b>
	1/1975-7/1980	(H eng) 3.6L	6	8.5	12	<b>PT104</b>
	10/1974-4/1982	(H eng) 3.6L	6	20.5	24	<b>PT109</b>
HJ47	8/1980-10/1982	(2H eng) 4.0L	6	8.5	12	<b>PT104</b>
	10/1982-10/1984	(2H eng) 4.0L	6	6	12	<b>PT146</b>
HJ60	8/1980-7/1982	(2H eng) 4.0L	6	10.5	12	<b>PT145</b>
	10/1982-8/1988	(2H eng) 4.0L	6	6	12	<b>PT146</b>
	8/1988-1/1990	(2H eng) 4.0L	6	11	12	<b>PT152</b>
HJ60, HJ61	10/1982-8/1987	(2H eng) 4.0L	6	14	24	<b>PT141</b>
	1986-1990	(2H eng) 4.0L	6	14	24	<b>PT141</b>
HJ75	11/1984-9/1988	(2H eng) 4.0L	6	6	12	<b>PT146</b>
	8/1988-1/1990	(2H eng) 4.0L	6	11	12	<b>PT152</b>
PZJ70, 73, 75	1/1990 -1994	(1PZ eng) 3.5L	5	11	12	<b>PT152</b>
PZJ70, 77	1/1990 -1994	(1PZ eng) 3.5L	5	23	24	<b>PT153</b>
HDJ80	1990-1995	(1HD-T eng) 4.2L	6	11	12	<b>PT152</b>
HDJ80	1995-1998	(1HD-FTE eng) 4.2L	6	11	12	<b>PT152</b>
HDJ78,79,100	2000-2005	(1HD-FTE eng) 4.2L	6	11	12	<b>PT158</b>
HZJ70, 73, 75, 80, 105	1/1990 -5/1998	(1HZ eng) 4.2L	6	11	12	<b>PT152</b>
HZJ75, 78, 79, 105	6/1999-	(1HZ eng) 4.2L	6	11	12	<b>PT158</b>
HZJ70, 73, 77	1/1990-	(1HZ eng ) 4.2L	6	23	24	<b>PT153</b>
KZJ90,95W,KZJ71G-95W	1999-10/2000	(1KZ-TE eng) 3.0L	6	11	12	<b>CP22</b>

#### PRADO

LJ71, LJ78, LJ81	4/1990-5/1993	(2L-TE eng) 2.4L	4	11	12	<b>PT151</b>
KZ	5/1993-	(1KZ-TE eng) 3.0L	4	11	12	<b>CP22</b>
KZJ95	5/1996-	(1KZTE eng) 3.0L	4	11	12	<b>CP22</b>
HDJ78, 79, 100, KDJ90, 95	10/2006 -	(1KD-FTV eng) 3.0L Direct Injection	4	11	12	<b>PT157</b>

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### TARAGO / LITEACE / TOWNACE

CM20,26, 27	10/1982-7/1988	(1C, 1C-II, 2C-II eng) 1.8/2.0L	4	7	12	<b>PT107</b>
CM30,50, CR21	8/1988-	(1C-II, 2C, 2C-III, 2C-IIIT)	4	11	12	<b>PT150</b>
CR22,29,31,38	8/1993-	(2C-T eng) 2.0L	4	11	12	<b>CP22</b>
CR22,29,31,38 CR40G, 50G	8/1994-	(3C-T eng) 2.2L	4	11	12	<b>CP22</b>
KB-CR41V, 51V	10/1996-	(2C eng) 2.0L	4	11	12	<b>PT154</b>

#### TOYOACE

JY16	7/1972-4/1974	(2J eng)	4	8	12	<b>PT93</b>
	7/1972-4/1974	(2J eng)	4	19	24	<b>PT94</b>
JY16, JY30	4/1974-8/1980	(2J neg)	4	8.5	12	<b>PT104</b>
	4/1974-8/1980	(2J eng)	4	20.5	24	<b>PT109</b>
	8/1980-1/1982	(2J eng)	4	10.5	12	<b>PT145</b>
	2/1982-7/1987	(2J eng)	4	23	24	<b>PT108</b>
	2/1982-7/1987	(2J eng)	4	6	12	<b>PT146</b>
	2/1982-7/1987	(2J eng)	4	14	24	<b>PT141</b>
BY30, BY31	8/1980-1988	(B eng)	4	10.5	12	<b>PT145</b>
	8/1980-1988	(B eng)	4	23	24	<b>PT108</b>
	2/1982-1988	(B eng)	4	14	24	<b>PT141</b>
	8/1988-5/1995	(B eng)	4	23	24	<b>PT153</b>
LY20, 30,	4/1980-1/1982	(L eng) 2.2L	4	11	12	<b>PT144</b>
	1/1982-	(L eng) 2.2L	4	7	12	<b>PT140</b>
LY21, 31	8/1983-8/1988	(2L eng) 2.4L	4	7	12	<b>PT140</b>
LY50, LY51, 61	8/1988-1995	(2L-II, 3L eng)	4	11	12	<b>PT151</b>
LY131	6/1995-	(3L eng) 2.8L	4	11	12	<b>PT151</b>
BU100, 105, 120	6/1995-	(3B eng) 3.5L	4	23	24	<b>PT153</b>
G25, FB4J	6/1995-	(J05C,S05C eng)	6	23	24	<b>PH26</b>

#### VOLKSWAGEN

##### GOLF III

1Z, AHU, ALE, AEY	8/1993-8/1998	(1.9TD, SDI, Variant TDI eng)	4	11	12	<b>B077</b>
-------------------	---------------	-------------------------------	---	----	----	-------------

##### CARAVELLE

ACV	8/1995-	(2.5TDI eng) ACV	5	11	12	<b>B077</b>
-----	---------	------------------	---	----	----	-------------

##### TRANSPORTER

AAB, AJA	9/1990-2002	(2.4TD, 2.4D eng)	5	11	12	<b>B080</b>
ACV	8/1995-4/1998	(2.5TDI eng)	5	11	12	<b>B077</b>

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### HKT GLOW PLUGS FOR INDUSTRIAL DIESEL ENGINES

#### HINO

##### HINO INDUSTRIAL ENGINES

1978-1982	(B eng)	4	19	24	<b>PT94</b>
1983-	(B, 3B eng)	4	14	24	<b>PT141</b>
1979-1982	(3B eng)	4	20.5	24	<b>PT109</b>
1978-	(DG eng)	4	8.5	12	<b>PT104</b>
1970-1976	(DM100, DQ100 eng)	6	19	24	<b>PH21</b>
1968-	(EB200, EB300, EB400)	6	19	24	<b>PH21</b>
1968-	(EC100, EH100, EH300)	6	19	24	<b>PH21</b>

##### UNIVERSAL

EB100, DK10, 10T, DS50, DS70	6	22.5	24	<b>PH20</b>
DM100, EB300, EC100, EH100	6	19.0	24	<b>PH21</b>

#### ISUZU

##### UNIVERSAL

2KA1,2KB1,2KC1,2AA1,2AB1,2AE1	2	10.5	12	<b>PI42</b>
3KA,3KB1,3KC1,3AA1,3AB1,3AD1 3AE1, 3AF1, 3AG1	3	10.5	12	<b>PI42</b>
C190, 201, 221, 240,4BA1	4 4	10.5 20.5	12 24	<b>PI42</b> <b>PI43</b>
D500	6 6	10.5 20.5	12 24	<b>PI42</b> <b>PI43</b>
4FA1, FB1	4 4	10.5 5.0	12 12	<b>PI42</b> <b>PI46</b>
4BB1, 4BC2, 4BD1	4	20.5	24	<b>PI44</b>
DA120, 220	4	22.5	24	<b>PI40**</b>
DA640, DH100	6	22.5	24	<b>PI40**</b>

#### KOMATSU

##### FORKLIFT

4D95S	4	11.0	12	<b>PT152</b>
-------	---	------	----	--------------

#### KUBOTA

##### TRACTOR

A15, A17, A19 A155, A175, A195	D905, 1005, 1105 D905-H, 1005-H, 1105-H	3	11	12	<b>PS207</b>
GT-3, GT-5, GT-8	V1405-L, 1505-L, 1505	4	11	12	<b>PS207</b>

Continued next page

(\* Behind part number means not available at time of printing.  
Part numbers and vehicle names are used for reference purposes only  
E and OE.

## HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

### KUBOTA Cont...

#### TRACTOR Cont...

B5001, B-10		Z500-1	2	10.5	12	PS201
B1200, B1400, B1402(DT), B8200, XB-1 B1500, B1502(DT), B1600, B1702, B1902		D750-L, 750LD-1, 850L, 850M D950	3	10.5	12	PS201
B7000		Z650, 750, 751, 751A, 851	2	10.5	12	PS204
L175, L185, L225, L245, L285, L295 L305, L345, L1500, L1501, L1801, L2000		D1100, 1101, 1101A, 1301 D1301A, DH1101	3	10.5	12	PS204
L2200, L2201, L2600, L2601, L3001		V1500, 1500A, 1501A, 1501DA	4	10.5	12	PS204
M4000, M4500		S2200, 2600, 2600A	6	10.5	12	PS204
B1902(DT), L275, L1802, L2002, L2202 L2402, L2602, L2802, L3202, L3602		D1102, 1302, 1302-A, 1402 D1402L	3	10.5	12	PS202
L4002, L4202(DT) L4212, M4950		V1502, 1902, VT1502 S2800	4 6	10.5 10.5	12 12	PS202 PS202
L1-18, 20, 22, 24 L1-185, 205, 225, 245		D1302DI, D1402-DI D1462-DI-L, D1462DI	3	10.5	12	PS209
L1-26, 28, 33, 43, 265, 285		V1512-DI-L, D1512-DI, V1512-DI-T	4	10.5	12	PS209
L1-38, 45		F2202-DI, 2802-DI	5	10.5	12	PS209
M4030, M5030, M4830, M4930		S2602-DI, 2802-DI	6	10.5	12	PS209
X-20D, X-24D		V1305, V1405	4	11	12	PS207
GL-19, 21, 23, 25, 27, 29, 32		D1403, D1463, D1503	3	11	12	PS208

#### COMBINE

R1-18, 20, 22, 24, 191, 201, 241		D-905-C, 1005-C/C-1/C-2/LC, 1105-C	3	11	12	PS207
R1-30, 35, 40, 261		V1305-C, 1405-HC, 1505-C	4	11	12	PS207
NX1000, 1600, 2000		E75-C2	1	10.5	12	PS201
NX2200, RX145AGU, 155AGU RX185AG		ZB400, 400C, 400-C2, 400-C3 Z600C, 600-C1, 620C	2	10.5	12	PS201
RX550, 750, 900, 950		D-600C, D640-C, 750,	3	10.5	12	PS201
RX1100, 1450, 1500, 1550, 1900, 1950 RX2100, 2450, 2750 RX2150, 1250		750-C, D-850-C2, 850-C3, 950-C V1200-C, V1200C-1	3 4	10.5 10.5	12 12	PS201 PS201
RX700		E75C	1	10.5	12	PS201
NX3000-1, RX2800		DH1402-C	3	10.5	12	PS202
RX3600, X3000-A		V1502	4	10.5	12	PS202
HT900, 2200		Z650C	2	10.5	12	PS204
NX3000		D1101, 1301	3	10.5	12	PS204
RX3250		D1462DI-C	3	10.5	12	PS209
RX3650		V1512-DI-L	4	10.5	12	PS209

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### KUBOTA Cont...

##### LAWN MOWER

AMX-3		D950	3	10.5	12	PS201
AMX-5		V1305-AMX	4	11	12	PS207
AR20, RX201, KX-014, 021, 024		D1105-BH/BHG/BHG-SR	3	11	12	PS207
AR30, RA300, 400, RX301 KX-026, 027, 030		V1305-RP, 1505-RP V1505-BH/BHG/BH-SR	4	11	12	PS207

##### CONSTRUCTION MACHINERY

KH-5, KH-8H-2, KH-18-2		D850, 850BH, 950, 950BH-1	3	10.5	12	PS201
KH-31, 35, 50, KH-012, 014		Z600K1, 600KW-3, 620KW	2	10.5	12	PS201
KH-1, KH-10, KH-14		D1100BH, 1301	3	10.5	12	PS204
KH-15, KH-18		S2200	6	10.5	12	PS204
KD-15, RW-25		V1500BDW	4	10.5	12	PS204
KD-15, RW-25		Z751BD	2	10.5	12	PS204
KH-11H, KH-12FD, KH-20, 60, 70, 90		D1302, 1302-BH-2, 1402-BH-3	3	10.5	12	PS202
KH-030TS		VT1502, V1702BH-2	4	10.5	12	PS202

##### GENERATOR

D750-L, 850-L, 950B, 950C	3	10.5	12	PS201
Z600C	2	10.5	12	PS201

##### MARINE

OMH1700	4	10.5	12	PS204
OMH2600	6	10.5	12	PS204

##### UNIVERSAL

OC52, 62, 80, 95	1	11	12	PS207
D905, 1005, 1105	3	11	12	PS207
V1205-T, V1305, 1405, 1505	4	11	12	PS207
E75-NB2, EA300-NB1	1	10.5	12	PS201
ZB400B	2	10.5	12	PS201
DH850-B	3	10.5	12	PS201
ER1200-NB, 1400-NB	1	10.5	12	PS202
ZB14-NB, 16-NB, 18-NB, 20-NB	2	10.5	12	PS202
D11022-BC, DH1302-BBS, D1402-BC	3	10.5	12	PS202
V1502-B, BC, V1702-BB, BBS, BC	4	10.5	12	PS202
Z482	2	11	12	PS206
D662, 722	3	11	12	PS206

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG VOLTAGE	BATTERY VOLTAGE	HKT NO.
-------------	------	--------	-----	-----------------	--------------------	---------

**Please ensure that the voltage of the glow plug is correct for the application!**

#### MITSUBISHI HEAVY IND. (MHI)

##### FORKLIFT

	FD30	4DR5	4	10.5	12	PM63**
	2FD30	4DR1	4	22.5	24	PM65**
	FD28, FD35A	S4S	4	10.5	12	PM79
	FD150	6DB1	6	20.5	24	PM71
	FD150T	6D11	6	21.0	24	PM66

##### UNIVERSAL

		KE250	4	10.5	12	PM63**
		KE250, 270	4	22.5	24	PM65**
		K2AS, K2C, KE70, 75	2	10.5	12	PM79
		K3	3	10.5	12	PM79
		K4, KE150	4	10.5	12	PM79
		KE31	4	10.5	12	PM64
		KE65	6	21.0	24	PM67
2 CYL		(K2AS, K2C, KE70/75 eng)	2	20.5		PM73
3 CYL		(K3 eng)	3	20.5		PM73
4 CYL		(K4, KE150 eng)	4	20.5		PM73

#### NISSAN

##### NISSAN FORKLIFT

	NSF01(M) 10,14,15,18 SF01A(M) 10,14,15,18	SD15	3	9.5	12	PN86
	NSF02A(M) 20T, 25T	SD15T	3	9.5	12	PN86
	EF02A(M) 20, 25, 30	SD25	4	9.5	12	PN86
	NVH01A(M)10,14,15,18 VH01A(M)10,14,15,18	SD15	3	10.5	12	PN128
	NVH02(M) 20, 23, 25	SD15T	3	10.5	12	PN128
	FD104, 105, QF1A(M) 10,14, 15, 18 QF02A(M) 20, 25, 30	SD22	4	10.5	12	PN81
	FD104, 105, QF1A(M) 10,14, 15, 18 QF02A(M) 20, 25, 30	SD22	4	9.5	12	PN86
	EF02A(M) 20, 25, 30	SD25	4	9.5	12	PN86
			4	10.5	12	PN128
	EH01A(M) 10,14,15,18 EH02A(M,F) 20, 23, 25 EGH02A(M,F) 28, 32	SD25	4	10.5	12	PN128
			4	23.0	24	PN124

Continued next page

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG VOLTAGE	BATTERY VOLTAGE	HKT NO.
-------------	------	--------	-----	-----------------	--------------------	---------

**Please ensure that the voltage of the glow plug is correct for the application!**

#### NISSAN Cont...

##### NISSAN FORKLIFT Cont...

FD005, 006, 007		SD33T	6	20.5	24	PN88**
YGF03M40T			6	23.0	24	PN124
F03 SERIES 3.5 4.0T		SD33	6	24.0	24	PN131
F05 SERIES 5.0 6.0T		SD33T	6	23.0	24	PN124
F05 SERIES 5.0 6.0T		TD42	6	24.0	24	PN136

##### UNIVERSAL

	SD15, 16	3	10.5	12	PN81
	SD22, 25	4	10.5	12	PN81
	SD33	6	10.5	12	PN81
	SD16	3	11.0	12	PN87
	SD22, 25	4	11.0	12	PN87

##### NISSAN INDUSTRIAL ENGINES

ENGINES SD15, 16	(3 cyl)	3	10.5	12	PN81
ENGINES SD16	(3 cyl)	3	11	12	PN87
ENGINES SD22, SD25, SD33	(4, 6 cyl)	4	10.5	12	PN81
	Some (4 cyl)	4	11	12	PN87

#### YANMAR

##### MARINE

	4JM-TZ/TZ-A/AM, 4JMZ 4JMZ-A/AM, 4JME	4	10.5	12	PS201
--	-----------------------------------------	---	------	----	-------

##### GENERATOR

	3TN63L-USW, 3TN66L-UDW 3TN66E-UGB2/UK 3TNA68L-USW/USW3 3TNA68L-USWD/USW2	3	10.5	12	PS201
	3TN66L-UGH/UGCD		10.0	12	PS210

##### CONSTRUCTION MACHINERY

	3TNA68L-U, 3TNA72L-U 3TN63L-U, 3TN66L-U, 3TN72E	4	10.5	12	PS201
B-08, B-12, B-17 Vio15, Vio20	3TNA72L-UBA/UBB, 3TN66L-UB 3TNE68L-UBA/UBB	3	10.0	12	PS210
B2X-1	3TNA72L-U2BX	3	10.5	12	PS201
V1-1	3TN66L-UKB	3	10.0	12	PS210

(\* Behind part number means not available at time of printing.  
 Part numbers and vehicle names are used for reference purposes only  
 E and OE.

### HKT GLOW PLUGS

APPLICATION	YEAR	ENGINE	CYL	PLUG	BATTERY	HKT NO.
				VOLTAGE	VOLTAGE	

**Please ensure that the voltage of the glow plug is correct for the application!**

#### YANMAR Cont...

##### TRACTOR

Ke-2, Ke-3 Ke-2A, Ke-3A, Ke-4A AF-15, 16, 17, 18 F5, 6, 7,13,14,15,16,17(D) F13, 14, 15, 16,F(X)17		3TNA68-UNK,3TN66-U/UNK 3TN68-UNK, 3TN72-UNK 3TNA72-UIA, 3TNE74-UIA 3TNA72, 3TN75, 3TNA70UK, 70UN 3TNA72UN, 3TNA75UN	3	10.0	12	<b>PS210</b>
F17, 18, 20, 22, 24(D), FX16,17,18,20,22,24(D)		3TN75-UA, UB, 3TN80-U,82-U,84-UA	3	10.0	12	<b>PS210</b>
FF205, 225, 245, F(X)195,215, 235(D)		3TNB80U, 82U	3	10.0	12	<b>PS210</b>
FX26, 28, 32, 42(D)		4TN78-UM, UP, UQ	4	10.0	12	<b>PS210</b>

##### COMBINE

CA15		3TNA68U	3	10.0	12	<b>PS210</b>
CA15G, 17G, 17DT, 19G, 19DT, 21G,21DT		3TNA68U-C,72-UBC, 75-RAC	3	10.0	12	<b>PS210</b>
CA125, 140, 160 CA180, 190		3TN63-U1C, 3TN66-U1C, 68-U1C 3TNA72-U1C/U2C	3	10.0	12	<b>PS210</b>
CA11R, 15G, 17DG CA19DG, 21DG 185(P) (GP) (H) (GH) 200(H) (GH)		3TN63U-NC, 3TN68U-C 3TNA72-UBC, 3TNA72-UAC 3TN75-RAC 3TNA72-BC(BIC), 3TNA72U	3	10.0	12	<b>PS210</b>



## Mitsubishi

It has come to our attention that due to the number of different Glow systems fitted to Mitsubishi 4D56 & 4M40 engines, it is not always clear which glow plugs should be fitted to certain applications.

















To identify the correct glow plug for the application, please follow the following guide lines.












If you are re-placing the original genuine Mitsubishi glow plugs cross-reference it to the correct HKT part number.















If you have another aftermarket brand which you can not cross reference to HKT or believe that the incorrect glow plug has been fitted, please contact your local Mitsubishi Dealer with all your vehicle information and ask them to indicate the correct Mitsubishi part number for your application, which you can then cross-reference to HKT.
















ENGINE	MODEL	CYL	YEAR	CHASSIS	PART NO	PV	BV	OE NO	
4D56	DELICA	4	93.6-94.3	L039P	PM-164	11	12	MD301950	
		4	86.6-93.5	L09P, LD69P	Not Avail		12	MD070194	
		4	86.6-93.5	P05V, P15V, P25V	PM-75	12	12	MD050212	
		4	93.6-	P05V, 15V, 25V, 45V	CP-07	11	12	MD197511	
	L200	4	90.2-93.8	KJ3, KJ7	PM-75	12	12	MD050212	
		4	93.9-4	KJ3, KJ7	CP-07	11	12	MD197511	
		4	93.9-	KJ3, KJ7, K14T, K34T	PM-164	11	12	MD301950	
	PAJERO	4	82.11-	L044G, L049GV, L144G, L149G	Not Avail		12	MD070194	
		4	82.11-	L044G, L049GV, L144G, L149G	PM-75	12	12	MD050212	
		4	91.1-93.6	V14V, V24C, V, W, WG	CP-06	6.2	12	MD092392	
		4	93.7-	V24C, V24W, V24WG	CP-07	11	12	MD197511	
	STRADA	4	91.1-93.6	V34C, V, W, WG, V44W, WG	CP-06	6.2	12	MD092392	
		4	90.2-93.8	RING DDL FOR INFO	PM-75	12	12	MD050212	
	4	93.9-	RING DDL FOR INFO	PM-164	11	12	MD301950		
	4D56T	DELICA	4	93.6-	P05T, P15T, P25T, 6039G	CP-07	11	12	MD197511
			4	97.9-	P05T, P15T, P25T	PM-167	11	12	MD344469
4			97.9-	P05V, P15V, P25V, P45V	PM-167	11	12	MD344469	
4			86.6-	P05W, P15W, P25W, P35W	CP-06	6.2	12	MD092392	
4			93.6-	P05W, P15W, P25W, P35W	CP-07	11	12	MD197511	
4			97.9-	P05W, P15W, P25W, P35W	PM-167	11	12	MD344469	
4			93.6-	PA5V, PB5V, PD5V	CP-07	11	12	MD197511	
4			97.9-	PA5V, PB5V, PD5V	PM-167	11	12	MD344469	
4			93.6-	PA5W, PB5W, PC5W	CP-07	11	12	MD197511	
4			97.9-	PA5W, PB5W, PC5W	PM-167	11	12	MD344469	
PAJERO		4	82.11-	L044G, L049GV, L144G, L149G	Not Avail		12	MD070194	
		4	82.11-	L044G, L049GV, L144G, L149G	PM-75	12	12	MD050212	
		4	91.1-93.6	V14V, V24C, V, W, WG	CP-06	6.2	12	MD092392	
		4	93.7-	V24C, V24W, V24WG	CP-07	11	12	MD197511	
STRADA		4	91.1-93.6	V34C, V, W, WG, V44W, WG	CP-06	6.2	12	MD092392	
		4	91.5-93.9	K34T	CP-06	6.2	12	MD092392	
	4	97.9-	K74T	PM-167	11	12	MD344469		
4	93.1-	RING DDL FOR INFO	CP-07	11	12	MD197511			
4M40	CANTER	4	93.11-	FB501A, B, FB511A, B	CP-05	11	12	ME200970, ME201638	
	DELICA	4	96.4-	PE8W, PD8W, PF8W	PM-165	11	12	ME203583, ME201632, ME203754	
	L200	4	1997-		CP-05	11	12	ME200970, ME201638	
		4	1998-		PM-165	11	12	ME203583, ME201632, ME203754	
	STRADA	4	1998-		PM-165	11	12	ME203583, ME201632, ME203754	
		4	1998-		CP-05	11	12	ME200970, ME201638	
	CHALLENGER	4	96.9-	K97W	PM-165	11	12	ME203583, ME201632, ME203754	
CANTER	4	94.9-	FB501, FB511, FD501	PM-165	11	12	ME201632, ME203583, ME203754		
4M40T	CHALLENGER	4	96.9-	K97W	PM-165	11	12	ME203583, ME201632, ME203754	
	CANTER	4	94.9-	FB501, FB511, FD501	PM-165	11	12	ME201632, ME203583, ME203754	
	DELICA	4	94.5-	PE8W, PD8W, PF8W	CP-05	11	12	ME200970, ME201638	
	PAJERO	4	93.7-	V26W, V26WG	CP-05	11	12	ME200970, ME201638	
		4	93.7-	V46V, V46W	CP-05	11	12	ME200970, ME201638	

















B049	B053	B067	B074	B076	B077	B078	B080	B081
								
B082	B085	B086		B095	B099	B110	B118	B120
								

















CP01	CP02	CP03	CP04	CP05	CP06	CP07	CP72	CP73
								
CP22	CP60	CP70	CP71	PA-301	PA-302	PA-303		
								














PA-304	PA-305	PA-306	PD99	PD190	PD191	PH22	PH25	PH26
								
PH21	PI42	PI43	PI44	PI45	PI46			
								

PI48	PI49	PI50	PI58	PI59	PI170	PI172	PI175
							
PM60	PM66	PM71	PM73	PM75	PM161		
							

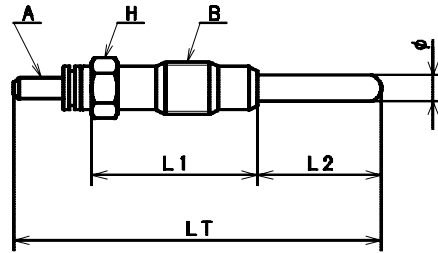
PM163	PM164	PM165	PM166	PM167	PM168	PN81	PN86
							
PN87	PN120	PN123	PN124	PN125	PN128	PN129	
							

PN132	PN135	PN136	PN138	PS201	PS202	PS203	PS204
							
PS206	PS207	PS208	PS209	PS210	PS217	PT90	PT91
							

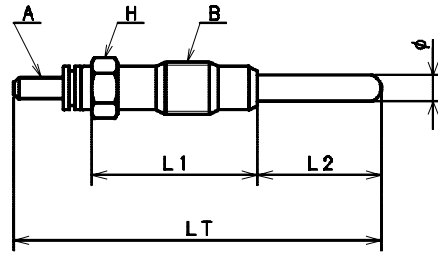
PT93	PT94	PT104	PT107	PT108	PT109	PT140	PT141
							
PT144	PT145	PT146	PT147	PT150	PT151	PT152	PT153
							

PT155	PT157	PT158	PZ30	PZ31	PZ33	PZ35	PZ36
							
PZ37		PZ38	PZ39	PZ701	PZ702		
							

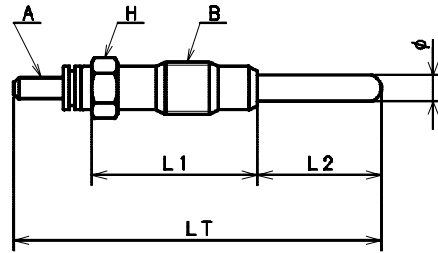
## HKT GLOW PLUG DIMENSION LIST



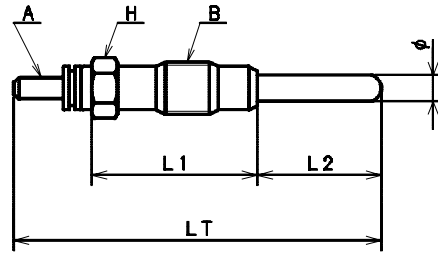
Part Number	L1	L2	LT	A	H	B	φ	voltage
B-024	34.0	32.0	81.0	M5	17	14×1.25	6.1	9.5
B-025	52.5	30.0	97.0	M5	14	14×2	6.1	9.5
B-026	34.0	28.0	77.0	M5	17	14×1.25	6.1	8
B-027	42.0	24.0	82.0	M5	17	14×1.25	6.1	9.5
B-029	47.5	25.0	92.0	M5	21	18×1.5	6.1	10.5
B-030	32.0	24.0	71.0	M5	12	12×1.25	6.1	11
B-031	34.0	28.0	77.0	M5	14	14.1×1.25	6.1	11
B-033	32.0	24.0	71.0	M5	12	12×1.25	6.1	11
B-034	32.0	32.0	79.0	M5	12	12×1.25	6.1	11
B-036	32.0	24.0	71.0	M5	12	12×1.25	6.1	11
B-040	32.0	24.0	71.0	M5	12	12×1.25	6.1	11
B-043	26.0	20.0	59.0	M5	12	12×1.25	6.1	11
B-044	32.0	24.0	71.0	M5	12	12×1.25	6.1	11.5
B-047	34.0	32.0	82.0	M5	17	14×1.25	6.1	22.5
B-048	32.0	29.0	74.0	M5	12	12×1.25	6.1	11
B-049	32.0	29.0	74.0	M5	12	12×1.25	6.1	11
B-051	26.0	24.0	65.0	M5	12	12×1.25	6.1	11
B-052	32.0	24.0	71.0	M5	12	12×1.25	6.1	11
B-053	32.0	20.0	68.0	M5	12	12×1.25	6.1	11.5
B-054	37.3	24.7	75.0	M5	21	18×1.5	6.1	9
B-055	48.5	28.0	98.0	M4	15.9	10×1.0	3.2	12
B-062	56.5	15.5	92.0	M5	19	18×1.5	6.1	18
B-063	42.5	16.0	77.0	M5	21	18×1.5	6.1	18
B-064	32.0	20.0	68.0	M4	12	12×1.25	5	11
B-067	37.0	27.0	86.5	φ4	12	12×1.25	5	11.5
B-072	32	20.0	68.0	M4	12	12×1.25	5	11.5
B-074	83.0	26.0	125.0	M4	10	10×1.0	5	11.5
B-076	29	25.0	68.0	M5	12	12×1.25	6.1	11
B-077	46.0	24.0	91.5	φ4	10	10×1.0	5	11
B-078	32.0	22.5	69.0	M5	12	12×1.25	6.1	11.5
B-080	26.0	20.0	59.0	M5	12	12×1.25	6.1	11
B-081	32.0	24.0	71.0	M5	12	12×1.25	6.1	11
B-082	67.0	27.0	116.6	φ4	12	12×1.25	6.1	11.5
B-083	27.0	25.0	68.0	M4	12	12×1.25	5	11
B-084	32.0	24.0	71.0	M4	12	12×1.25	5	11
B-085	46.0	24.0	83.0	M4	10	10×1.0	5	11
B-086	46.0	29.0	97.0	φ4	10	10×1.0	5	11
B-087	46.0	29.0	89.0	M4	10	10×1.0	5	11
B-088	29.0	17.5	62.0	M5	12	12×1.25	6.1	10
B-089	63.0	26.5	107.0	M4	10	10×1.0	5	11
B-090	32.0	20.0	65.0	M5	12	12×1.25	6.1	11

**HKT GLOW PLUG DIMENSION LIST**


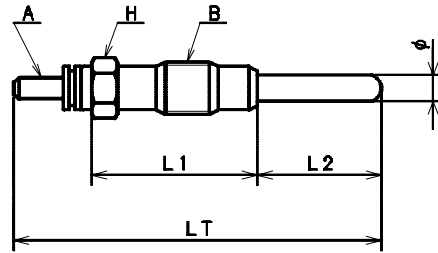
Part Number	L1	L2	LT	A	H	B	φ	voltage
B-092	26.0	19.5	73.5	φ4	12	12×1.25	6.1	11
B-093	27.0	24.0	67.0	M5	12	12×1.25	6.1	11
B-094	53.0	24.0	95.0	M4	10	10×1.0	5	11
B-095	67.0	27.0	121.2	φ5	12	12×1.25	6.1	11.5
B-096	43.0	24.0	83.0	M4	10	10×1.0	5	11
B-097	38.0	24.0	75.0	M4	10	10×1.0	5	11
B-098	77.0	28.0	131.5	φ4	10	10×1.0	5	11
B-099	80.0	28.0	130.5	φ4	10	10×1.0	5	11.5
B-100	81.0	28.0	126.0	M4	10	10×1.0	5	11
B-101	95.0	35.0	1047.0	M4	10	10×1.0	5	11.5
B-102	53.0	24.0	98.5	M4	10	10×1.0	5	11
B-103	44	24.0	89.5	M4	10	10×1.0	5	11
B-104	46.0	32.0	104.5	φ4	10	10×1.0	5	11
B-105	54.5	24.5	96.0	M4	10	10×1.0	5	10
B-107	77.0	30.5	134.0	φ4	10	10×1.0	5	11
B-108	56.5	24.0	95.0	M4	10	10×1.0	5	11
B-109	57.0	24.0	102.5	φ4	10	10×1.0	5	11
B-110	60.0	29.5	111.5	M4	14.5	10×1.0	5	11
B-114	59.0	39.5	121.0	φ4	10	10×1.0	5	11.5
B-118	61.0	24.0	106.5	φ4	10	10×1.0	5	11
B-120	105.0	31.0	153.5	M4	12	10×1.25	4	11
CP-01	47.0	18.5	83.0	M4	12	10×1.25	5	11
CP-02	62.0	18.5	95.0	M4	12	10×1.25	5	11
CP-03	52.0	15.5	81.5	M4	12	10×1.25	5	11
CP-04	47.0	21.0	85.0	M4	12	10×1.25	5	11
CP-05	47.0	21.5	89.0	M4	12	10×1.25	5	11
CP-06	54.0	20.0	94.0	M4	12	10×1.25	5	6.2
CP-07	47.0	17.5	85.0	M4	12	10×1.25	5	11
CP-20	55.5	28.0	104.0	M4	12	10×1.25	5	11
CP-22	58.5	25.0	104.0	M4	12	10×1.25	5	11
CP-50	53.0	17.5	89.0	M4	12	10×1.25	5	11
CP-51	93.0	23.5	143.0	φ4	12	10×1.25	5	11
CP-60	58.5	22.0	101.0	M4	12	10×1.25	5	11
CP-70	47.0	21.5	84.0	M4	12	10×1.25	5	6.5
CP-71	45.0	21.5	90.0	M4	12	10×1.25	5	6.5
CP-72	140.5	21.0	180.0	M4	12	10×1.25	5	11
CP-73	175.5	23.0	213.0	M4	12	10×1.25	5	11
PA-301	33.6	27.0	78.0	□□□	9.5	10×1.0	5	11
PA-302	33.6	27.0	79.5	□□□	9.5	10×1.0	5	6
PA-303	27.6	29.0	77.0	□□□	9.5	10×1.0	5	6
PA-304	33.6	27.0	79.0	□□□	9.5	10×1.0	5	11.5

**HKT GLOW PLUG DIMENSION LIST**


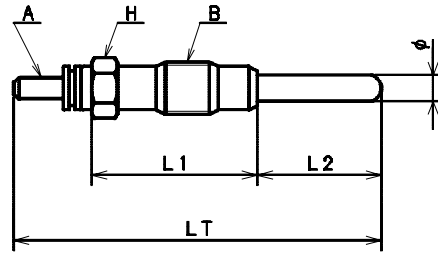
Part Number	L1	L2	LT	A	H	B	$\phi$	voltage
PA-305	33.6	26.8	81.4	$\phi 4$	9.5	10×1.0	5	5
PA-306	27.6	29.0	77.0	□□□	9.5	10×1.0	5	10.5
PA-308	34.4	28.5	75.1	$\phi 4$	9.5	10×1.0	5	23
PD-190	53.0	28.0	101.0	M4	12	10×1.25	5	7
PD-191	53.0	28.0	101.0	M4	12	10×1.25	5	11
PD-192	53.0	28.0	101.0	M4	12	10×1.25	5	11
PD-95	40.0	33.0	93.0	M4	12	10×1.25	5	8
PD-99	50.0	25.0	95.0	M4	12	10×1.25	5	8
PH-20	41.0	25.0	86.0	M4	12	10×1.25	5	22.5
PH-21	41.0	25.0	85.0	M4	12	10×1.25	5	19
PH-22	94.0	24.0	141.0	M4	12	12×1.25	5	23
PH-25	94.0	24.0	141.0	M4	12	12×1.25	5	10.5
PH-26	108.0	28.0	160.0	M4	12	12×1.25	5	23
PI-170	94.0	24.0	141.0	M4	12	12×1.25	5	11
PI-171	32.0	22.0	69.0	M5	12	12×1.25	6.1	11.5
PI-172	103.5	23.5	145.0	M4	12	10×1.25	5	11
PI-173	98.0	36.0	151.5	M4	12	10×1.25	5	23
PI-175	98.0	36.0	151.5	M4	12	10×1.25	3.5	11
PI-176	96.0	24.0	141.0	M4	12	12×1.25	12	11
PI-40	50.0	20.0	91.0	M5	19	18×1.5	6	22.5
PI-41	45.0	20.0	85.0	M4	19	10×1.25	5	10.5
PI-42	47.0	24.0	89.0	M4	12	10×1.25	5	10.5
PI-43	47.0	24.0	89.0	M4	12	10×1.25	5	20.5
PI-44	94.0	24.0	138.0	M4	12	12×1.25	5	20.5
PI-45	47.0	24.0	89.0	M4	12	10×1.25	5	9
PI-46	47.0	24.0	89.0	M4	12	10×1.25	5	5
PI-47	52.0	24.0	95.0	M4	12	10×1.25	5	9.5
PI-48	53.0	24.0	95.0	M4	12	10×1.25	5	9.5
PI-49	94.0	24.0	141.0	M4	12	12×1.25	5	11
PI-50	94.0	24.0	141.0	M4	12	12×1.25	5	23
PI-51	47.0	18.0	83.0	M4	12	10×1.25	5	5
PI-52	53.0	24.0	95.0	M4	12	10×1.25	5	23
PI-53	53.0	24.0	95.0	M4	12	10×1.25	5	20.5
PI-54	52.0	24.0	95.0	M4	12	10×1.25	5	20.5
PI-55	47.0	24.0	89.0	M4	12	10×1.25	5	5
PI-56	94.0	24.0	141.0	M4	12	12×1.25	5	10.5
PI-57	47.0	17.0	84.0	M4	12	10×1.25	5	11
PI-58	47.0	24.0	89.0	M4	12	10×1.25	5	11
PI-59	47.0	17.0	84.0	M4	12	10×1.25	5	11
PK-111	50.5	22.5	85.0	$\phi 2.3$	8	3/8-24UNF	6	24
PK-112	82.0	23.0	117.5	$\phi 6.5$	9.5	3/8-24UNF	6	12

**HKT GLOW PLUG DIMENSION LIST**


Part Number	L1	L2	LT	A	H	B	φ	voltage
PK-115	53.0	28.0	101.0	M4	12	10×1.25	5	20.5
PK-116	55.0	23.0	96.5	M4	12	10×1.25	5	22.5
PK-117	50.5	22.5	85.0	φ2.3	8	3/8-24UNF	6	12
PK-96	55.0	25.0	100.0	M4	12	10×1.25	5	22.5
PK-98	82.0	23.0	117.5	φ6.5	9.5	3/8-24UNF	6	24
PM-160	57.5	19.5	97.0	M4	12	12×1.25	5	24
PM-161	52.0	22.0	95.0	M4	12	10×1.25	5	6
PM-162	45.0	22.5	87.0	M4	12	12×1.25	5	11
PM-163	85.0	25.0	131.0	M4	12	10×1.25	5	23
PM-164	45.0	20.0	84.0	M4	12	10×1.25	5	11
PM-165	47.0	20.5	88.0	M4	12	10×1.25	4.3	11
PM-166	54.0	22.0	97.0	M4	12	10×1.25	5.0	11
PM-167	47.0	17.5	85.0	M4	12	10×1.25	5	11
PM-168	114.5	35.0	170.0	M4	12	10×1.25	5	11
PM-401	114.5	35.0	170.0	M4		10×1.25	3.5	23
PM-402	118.5	31.0	170.0	M4		10×1.25	3.5	11
PM-60	49.0	23.0	89.0	M4	12	10×1.25	5	22.5
PM-61	85.0	30.0	138.0	M4	12	10×1.25	5	22.5
PM-62	34.0	18.0	70.0	M4	12	10×1.25	5	10.5
PM-63	41.0	20.2	80.0	M4	12	12×1.25	5	10.5
PM-65	41.0	20.5	80.0	M4	12	12×1.25	5	22.5
PM-66	56.0	23.0	99.0	M4	12	10×1.25	5	21
PM-70	42.0	23.5	83.5	M4	12	10×1.25	5	22.5
PM-71	49.0	23.0	92.0	M4	12	10×1.25	5	20.5
PM-72	50.0	20.5	88.5	M4	12	10×1.25	5	22.5
PM-73	57.5	20.0	97.0	M4	12	12×1.25	5	20.5
PM-74	41.0	20.2	80.0	M4	12	12×1.25	5	20.5
PM-75	52.0	22.0	95.0	M4	12	10×1.25	5	12
PM-77	41.0	22.5	83.0	M4	12	12×1.25	5	11
PM-78	57.5	20.0	97.0	M4	12	12×1.25	5	23
PM-79	45.0	22.0	83.5	M4	12	10×1.25	5	10.5
PN-86								
PN-87								
PN-120	39.0	19.0	75.0	M4	12	10×1.25	5.1	23
PN-121	26.0	20.0	61.0	M5	12	12×1.25	6	6.5
PN-122	55.0	21.0	94.0	M4	14	12×1.25	5	9.5
PN-123	33.5	19.0	70.0	M4	12	10×1.25	5	11
PN-124	33.5	19.0	70.0	M4	12	10×1.25	5	23
PN-125	55.0	21.0	94.0	M4	14	12×1.25	5	23
PN-126	47.5	25.0	91.0	M4	12	10×1.0	5	6.5
PN-127	47.5	25.0	92.0	M4	12	10×1.0	5	8.5

**HKT GLOW PLUG DIMENSION LIST**


Part Number	L1	L2	LT	A	H	B	φ	voltage
PN-128	33.5	19.0	70.0	M4	12	10×1.25	5	10.5
PN-129	26.0	20.0	61.0	M5	12	12×1.25	6	8.5
PN-130	55.0	21.0	94.0	M4	14	12×1.25	5	23
PN-131	33.5	17.0	67.0	M4	12	10×1.25	5	24
PN-132	33.5	17.0	67.0	M4	12	10×1.25	5	11
PN-133	47.0	25.0	91.0	M4	12	10×1.25	5	8.5
PN-134	47.0	25.0	91.0	M4	12	10×1.25	5	6.5
PN-135	50.0	22.0	88.0	M4	12	10×1.25	5	11
PN-136	50.0	22.0	87.0	M4	12	10×1.25	5	24
PN-137	55.0	21.5	94.0	M4	14	12×1.25	5	24
PN-138	50.0	19.0	84.0	M4	12	10×1.25	5	11
PN-139	49.0	19.0	81.5	M4	12	10×1.25	5	11
PN-81	33.5	17.0	68.0	M4	12	10×1.25	5	10.5
PN-82	55.0	21.0	94.0	M4	14	12×1.25	5	19
PN-84	55.0	21.0	94.0	M4	14	12×1.25	5	10
PN-85	33.5	17.0	68.0	M4	12	10×1.25	5	9
PN-86	33.5	19.0	70.0	M4	12	10×1.25	5	9.5
PN-87	33.5	19.0	70.0	M4	12	10×1.25	5	11
PN-88	39.0	19.0	76.0	M4	12	10×1.25	5	20.5
PN-89	26.0	20.0	59.0	M5	12	12×1.25	6	11
PS-201	33.5	17.0	70.0	M4	12	10×1.25	5	10.5
PS-202	39.0	16.0	75.0	M4	12	10×1.25	5	10.5
PS-203	45.0	22.0	85.0	M4	12	10×1.25	5	10.5
PS-204	37.5	16.0	75.0	M4	12	10×1.25	5	10.5
PS-205	45.0	22.0	84.0	M4	12	10×1.25	5	12
PS-206	34.0	19.5	69.0	M4	10	8×1.0	4.4	11
PS-207	33.5	24.5	80.0	M4	12	10×1.25	5	11
PS-208	34.5	30.0	85.0	M4	12	10×1.25	5	11
PS-209	83.0	19.0	124.0	M4	12	10×1.25	5	10.5
PS-210	34.5	17.0	68.0	M4	12	10×1.25	4.4	10
PS-211	33.5	17.0	71.0	M4	12	10×1.25	5	11
PS-215	34.5	30.0	85.0	M4	12	10×1.25	5	23
PS-216	36.0	24.3	76.5	M4	12	10×1.25	5	10.5
PS-217	45.0	23.0	84.5	M4	12	10×1.25	5	22
PS-218	111.0	25.0	158.0	M4	14	12×1.25	5	10.5
PT-100	53.0	28.0	101.0	M4	12	10×1.25	5	8.5
PT-101	53.0	28.0	101.0	M4	12	10×1.25	5	20.5
PT-102	53.0	22.0	96.0	M5	12	10×1.25	5	21
PT-103	43.5	31.5	95.0	M4	12	10×1.25	5	11
PT-104	53.0	28.0	101.0	M4	12	10×1.25	5	8.5
PT-105	43.5	31.5	95.0	M4	12	10×1.25	5	23

**HKT GLOW PLUG DIMENSION LIST**


Part Number	L1	L2	LT	A	H	B	φ	voltage
PT-106	40.0	32.0	91.5	M4	12	10×1.25	5	11
PT-107	53.0	28.0	101.0	M4	12	10×1.25	5	7
PT-108	53.0	28.0	101.0	M4	12	10×1.25	5	23
PT-109	53.0	28.0	101.0	M4	12	10×1.25	5	20.5
PT-140	43.5	31.5	95.0	M4	12	10×1.25	5	7
PT-141	53.0	28.0	101.0	M4	12	10×1.25	5	14
PT-142	43.5	32.0	95.0	M4	12	10×1.25	5	16
PT-144	43.5	31.5	96.0	M4	12	10×1.25	5	11
PT-145	53.0	28.0	101.0	M4	12	10×1.25	5	10.5
PT-146	53.0	28.0	96.0	M4	12	10×1.25	5	6
PT-147	43.5	31.5	95.0	M4	12	10×1.25	5	6
PT-148	94.0	24.0	141.0	M4	12	12×1.25	5	14
PT-149	40.0	32.0	91.5	M4	12	10×1.25	5	23
PT-150	53.0	28.0	101.0	M4	12	10×1.25	5	11
PT-151	43.5	32.0	95.0	M4	12	10×1.25	5	11
PT-152	53.0	27.0	96.0	M4	12	10×1.25	5	11
PT-153	53.0	28.0	101.0	M4	12	10×1.25	5	23
PT-154	53.0	28.0	101.0	M4	12	10×1.25	5	11
PT-155	43.5	32.0	97.0	M4	12	10×1.25	5	11
PT-156	43.5	30.5	95.0	M4	12	10×1.25	5	11
PT-157	111.5	37.0	170.0	M4	12	10×1.25	5	11
PT-158	53.0	28.0	101.5	M4	12	10×1.25	5	11
PT-90	49.0	20.0	91.0	M4	17	14×1.25	5	8
PT-91	49.0	20.0	91.0	M4	17	14×1.25	5	19
PT-92	37.5	21.0	78.5	M5	26	18×1.5	5	19
PT-93	53.0	27.0	101.0	M4	12	10×1.25	5	8
PT-94	53.0	27.0	101.0	M4	12	10×1.25	5	19
PZ-30	45.0	22.0	86.0	M4	12	10×1.25	5	12
PZ-31	45.0	22.0	86.0	M4	12	10×1.25	5	23
PZ-32	45.0	22.0	86.0	M4	12	10×1.25	5	24
PZ-33	45.0	22.0	86.0	M4	12	10×1.25	5	10.5
PZ-34	49.0	20.0	89.0	M4	12	10×1.25	5	10.5
PZ-35	45.0	22.0	86.0	M4	12	10×1.25	5	12
PZ-36	47.0	17.5	84.0	M4	12	10×1.25	5	11
PZ-37	45.0	22.0	84.0	M4	12	10×1.25	5	12
PZ-38	45.0	22.0	84.0	M4	12	10×1.25	5	11
PZ-39	47.0	22.5	85.0	M4	12	10×1.25	5	11
PZ-701	47.0	19.0	82.0	M4	12	10×1.25	5	24
PZ-702	50.0	22.0	93.0	M4	12	10×1.25	5	11
PZ-703	29.0	17.5	62.0	M5	12	12×1.25	6.1	11.5
PZ-704	70.0	30.0	120.0	M4	12	10×1.25	5	11

**CROSS REFERENCE LIST**

QT = QUICK TYPE, SQT = SUPER QUICK TYPE, QGS = QUICK GLOW SYSTEM

HKT	BOSCH	NGK	O-E	CHAMPION	PLUG VOLT	TYPE
B-004		DG237		CH61	0.9'	
B-006				CH45	1.7'	
B-021		Y811		CH44	10.5'	
B-024					9.5'	
B-025		Y404			9.5'	
B-026		Y403			8.0'	
B-029		Y810			10.5'	
B-031		Y403T		CH66	11.0'	
B-047					22.5'	
B-049		Y909R		CH69	11.0'	
B-053		Y907R		CH79	11.0'	
B-054					9.0'	
B-055		Y302		CH32	12.0'	
B-057						
B-058			DS050 (LUCAS)	CH50	11.0'	
B-062						
B-063						
B-066						
B-067		Y929U			11.0'	
B-074		Y729U		CH178	11.5'	
B-076		Y913M			11.0'	
B-077		Y732U		CH184	11.0'	
B-078		Y916R			11.5'	
B-080		Y918R			11.0'	
B-081		Y902R	7701414107	CH156	11.0'	
B-082		Y925R		CH177	11.5'	
B-083		Y927R			11.0'	
B-084		Y928U			11.0'	
B-085		Y730U	12291-P5T-G00		11.0'	
B-086		Y741U			11.0'	
B-087		Y503R		CH185	11.0'	
B-088		Y937R			10.0'	
B-089		Y504R			11.0'	
B-090					11.0'	
B-091						
B-092					12.0'	
B-093					11.0'	
B-095		Y930U			11.5'	
B-096		Y740U			11.0'	
B-097		Y502R		CH216	11.0'	
B-098			1214457			
B-099			A0011594901	CH218	11.5'	
B-100			1214322			
B-101			1096527			
B-102			7700100635			
B-103			7700111323	CH184		
B-105						
B-106		YE04	1148105			
B-107			1079401			
B-108						
B-109						
B-110					11.0'	
B-111						
B-114						

**CROSS REFERENCE LIST**

QT = QUICK TYPE, SQT = SUPER QUICK TYPE, QGS = QUICK GLOW SYSTEM

HKT	BOSCH	NGK	O-E	CHAMPION	PLUG VOLT	TYPE
B-118			ERR6066			
B-120			36710-4A000			
CP-01	GPN-330	CY51	11065-G5501		11.0'	SQT
CP-02	GPN-332	CY52	11065-57J00		11.0'	SQT
CP-03	GPN-342	CY58	11065-0W801		11.0'	SQT
CP-04	GPN341		11065-4P400		11.0'	SQT
CP-05	GPF-119	CY55	ME201638		11.0'	SQT
CP-06	GPF-133		MD092392		6.2'	SQT
CP-07	GPF-117	CY57	36710-42500		11.0'	SQT
CP-20	GPT-235		19850-54110		11.0'	SQT
CP-22	GPT-225		19850-67020		11.0'	SQT
CP-23			19850-26020			
CP-50	GPM514	CY03	8-97080554-0		11.0'	SQT
CP-51		CZ22	8-97210818-2		11.0'	
CP-52		CZ24	7701052949			
CP-60	GPM-515		RF1M-18-601		11.0'	SQT
CP-70		CZ51	11065-V7203		6.5'	QT
CP-71		CX51	11065-V7202		6.5'	
CP-72			11065-AD200		11.0'	
CP-73		CZ71	11065-2W202		11.0'	
PA-301			AC7G	CH78	11.0'	
PA-302			AC8G	CH80	6.0'	
PA-303			AC9G	CH77	6.0'	
PA-304			AC12G		11.5'	
PA-305			AC13G	CH84	0.5'	
PA-306			AC11G		10.5'	
PD-95	GPD902		992-5113-2381-9		8.0'	
PD-99	GPD901	Y108	19850-87303	CH106	8.0'	
PD-190	GPD903	Y146R	19850-87701	CH95	7.0'	QGS
PD-191	GPD904	Y703R	19850-87702		11.0'	SQT
PD-192	GPD906		19850-87703		11.0'	SQT
PH-10		DG241	6051-330601			
PH-11	GPH403					
PH-20	GPH401	Y173	19110-1050		22.5'	
PH-21	GPH402	Y176	19110-1040	CH107	19.0'	
PH-22	GPH407		19110-1140		23.0'	
PH-23	GPH406		19110-1081		14.0'	QGS
PH-25	GPH408		19110-1160		10.5'	QT
PH-26	GPH409		19110-1220		23.0'	SQT
PI-40	GPI001	Y874-1	9-82511994-0		22.5'	
PI-41	GPI002	Y808-1	9-82511977-0		10.5'	
PI-42	GPI003	Y104R	9-82511978-0	CH135	10.5'	
PI-43	GPI007	Y154	9-82513959-0	CH108	20.5'	
PI-44	GPI008	Y271-2	9-82513928-8	CH109	20.5'	
PI-45	GPI017		5-81410040-0	CH126	9.0'	
PI-46	GPI005	Y104R	8-94221719-3	CH110	5.0'	QGS
PI-47	GPI006	Y154R	5-81410055-2		9.5'	QGS
PI-48	GPI009	Y154RS	5-81410056-3	CH111	9.5'	QGS
PI-49	GPI010	Y904M	8-94175158-0	CH306	11.0'	SQT
PI-50	GPI021	Y954M	8-94135377-3		23.0'	SQT
PI-51	GPI011	Y711R	8-94402303-1	CH188	5.0'	QGS
PI-52	GPI012		8-94172223-0		23.0'	SQT
PI-53	GPI018		5-81410044-0		20.5'	QT
PI-54	GPI019		5-81410045-0	CH305	20.5'	QGS

**CROSS REFERENCE LIST**

QT = QUICK TYPE, SQT = SUPER QUICK TYPE, QGS = QUICK GLOW SYSTEM

HKT	BOSCH	NGK	O-E	CHAMPION	PLUG VOLT	TYPE
PI-55	GPI015		8-94439218-0		5.0'	QGS
PI-56	GPI024		5-81410023-3		10.5'	
PI-57	GPI016	Y711RS	8-94481972-0	CH158	11.0'	SQT
PI-58	GPI013	Y710R	8-94319700-1	CH157	11.0'	SQT
PI-59	GPI014	Y719RS	8-94387612-1	CH310	11.0'	SQT
PI-170			8-94140115-2		11.0'	STD
PI-171			0 250 201 026		11.5'	SQT
PI-172	GPI026		8-97143674-1		11.0'	SQT
PI-173			8-94390777-4			
PI-175			8-97326046-0		11.0'	
PI-176			8-97306519-2			
PK-96	GPK911	Y174TS	6110-13-2511		22.5'	
PK-97	GPK912					
PK-98	GPC921	Y171	3S9624X		24.0'	
PK-111		Y159	4N-360		24.0'	
PK-112		Y109	IP-7912		12.0'	
PK-114			6008-15-4111		22.5'	
PK-115			6008-15-1340		20.5'	QT
PK-116		Y174S-1	6008-15-2320		22.5'	
PK-117			3T-8705		12.0'	
PM-60	GPF104	Y172	ME021302	CH112	22.5'	
PM-61	GPF101	Y175S-2	ME067459		22.5'	
PM-62	GPF106	Y102	30666-20309		10.5'	
PM-63	GPF102	Y201	ME007546	CH307	10.5'	
PM-64	GPF111	Y802-2	K417131-3		10.5'	
PM-65	GPM905	Y251	MM401625		22.5'	
PM-66	GPF110	Y180	ME037002	CH113	21.0'	
PM-67		Y876-2	K657134-2			
PM-68		Y852-2	K4171363			
PM-69		Y806(-2)	K417133-1			
PM-70	GPF107		3066-51300		22.5'	
PM-71	GPF105	Y172	ME020911		20.5'	
PM-72					22.5'	
PM-73	GPF103	Y274	ME017010	CH114	20.5'	
PM-74	GPM906		ME007547		20.5'	
PM-75	GPF112	Y115T-1	MD050212	CH94	12.0'	QT
PM-77	GPF116		ME007615		11.0'	SQT
PM-78	GPM907	Y971M	ME017057		23.0'	SQT
PM-79		Y114T	MM409510	CH144	10.5'	QT
PM-160	GPF121	Y274R	ME017009		24.0'	QGS
PM-161	GPF128	Y115R-1	MD014997	CH101	6.0'	QGS
PM-162	GPM900		ME001581		11.0'	SQT
PM-163	GPM901		ME007649		23.0'	SQT
PM-164	GPF118		MD301950		11.0'	SQT
PM-165	GPM902		ME203583		11.0'	
PM-166		Y722J	36710-42010		11.0'	
PM-167	GPM903	Y733J	MD197511		11.0'	
PM-168	GPM904		ME203539		11.0'	
PM-169			MN960270			
PM-401			ME191813			
PM-402			1820A-006T			
PN-78			11065-J5570			
PN-80	GPN301	Y803-1	11065-37501			
PN-81	GPN302	Y103	11065-37506	CH127	10.5'	

**CROSS REFERENCE LIST**

QT = QUICK TYPE, SQT = SUPER QUICK TYPE, QGS = QUICK GLOW SYSTEM

HKT	BOSCH	NGK	O-E	CHAMPION	PLUG VOLT	TYPE
PN-82	GPN305	Y252	11065-Z5000	CH115	19.0'	
PN-83		Y805(-1)	11065-37503			
PN-84	GPN304	Y202	11065-J2000	CH303	10.0'	
PN-85	GPN310	Y103-1	11065-Y1400		9.5'	
PN-86	GPN332	Y103-2	11065-Y1402	CH116	9.5'	
PN-87	GPN306	Y112T	11065-31W00	CH136	11.0'	QT
PN-88	GPN336	Y177-1	11065-T3400		20.5'	
PN-89	GPN309	Y204TS-1	11065-V0700	CH60	11.0'	QT
PN-120	GPN308	Y181T	11065-T3470	CH117	23.0'	QT
PN-121	GPN316	Y204RS	11065-W2500	CH96	6.5'	QGS
PN-122	GPN340	Y202-2	11065-J5501		9.5'	
PN-123	GPN319	Y112M-1	11065-34W00	CH102	11.0'	QGS
PN-124	GPN317	Y162R-1	11065-T8201	CH128	23.0'	QGS
PN-125	GPN311	Y272R-1	11065-T9000		23.0'	QGS
PN-126	GPN315	Y117RS	11065-16A05	CH98	6.5'	QGS
PN-127	GPN314	Y117SS	11065-16A00	CH99	8.5'	QGS
PN-128	GPN318	Y112R-1	11065-T8200	CH129	10.5'	QGS
PN-129	GPN320	Y204SS	11065-W3400	CH105	8.5'	QGS
PN-130	GPN321	Y272T	11065-J6500		23.0'	QGS
PN-131	GPN324	Y755RS	11065-C8600	CH304	24.0'	SQT
PN-132	GPN322	Y705RS	11065-10G00	CH161	11.0'	SQT
PN-133	GPN323	Y144SS	11065-16A01		8.5'	QGS
PN-134	GPN325	Y144RS	11065-16A06		6.5'	QGS
PN-135	GPN327	Y707RS	11065-43G01	CH162	11.0'	SQT
PN-136	GPN328	Y757RS	11065-10T01		24.0'	SQT
PN-137	GPN326	Y955RS	11065-02T00		24.0'	SQT
PN-138	GPN338	Y712RS	11065-31N00	CH309	11.0'	SQT
PN-139			11065-7C000		11.0'	
PS-200		Y149	19215-6551-0			
PS-201		Y103V	15951-6551-2		10.5'	
PS-202		Y720U	15521-6551-2		10.5'	
PS-203		Y107V	18536-6060		10.5'	
PS-204		Y106-1	15221-6551-3		10.5'	
PS-205		Y701R	18536-6092		12.0'	SQT
PS-206		YE01	16851-6551-2		11.0'	SQT
PS-207		Y709R	16241-6551-1		11.0'	SQT
PS-208		Y716RS	19077-6551-0		11.0'	SQT
PS-209		Y119V	17331-6551-1		10.5'	QT
PS-210		Y702U	129155-77800		10.0'	SQT
PS-211					11.0'	
PS-215		Y766MS	185-6725		23.0'	SQT
PS-216		Y145T	MM432-14801		10.5'	QT
PS-217		Y182T-1	34466-31300		22.0'	QT
PS-218					10.5'	
PS-219		YA01	17529-6551-1			
PS-220			2666-A014			
PS-221			2666-A012			
PT-14	GPT211	DG211	04192-76011			
PT-90	GPT201	Y402-1	19850-46020	CH130	8.0'	
PT-91	GPT202	Y452-1	19850-46031	CH118	19.0'	
PT-92	GPT209		19850-76020		19.0'	
PT-93	GPT203	Y128	19850-56020	CH119	8.0'	
PT-94	GPT204	Y178	19850-56010	CH120	19.0'	
PT-100	GPT208	Y128T	19850-56021	CH121	8.5'	QT

<b>CROSS REFERENCE LIST</b>
-----------------------------

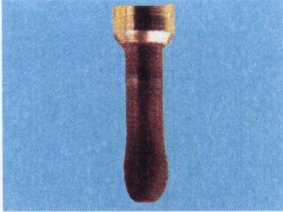
QT = QUICK TYPE, SQT = SUPER QUICK TYPE, QGS = QUICK GLOW SYSTEM

HKT	BOSCH	NGK	O-E	CHAMPION	PLUG VOLT	TYPE
PT-101	GPT207	Y178T	19850-56012	CH122	20.5'	QT
PT-102	GPT206		19850-77010		21.0'	
PT-103	GPT205	Y118T	19850-54030	CH103	11.0'	QT
PT-104	GPT208	Y128T	19850-68030	CH121	8.5'	QT
PT-105	GPT210		19850-54040		23.0'	QT
PT-106	GPT226		19850-54010		11.0'	QT
PT-107	GPT212	Y146R	19850-64010	CH95	7.0'	QGS
PT-108	GPT213	Y197T	19850-68020	CH131	23.0'	QT
PT-109	GPT207	Y178T	19850-68040	CH122	20.5'	QT
PT-140	GPT216	Y118R	19850-54050	CH132	7.0'	QGS
PT-141	GPT217	Y197R	19850-68060	CH104	14.0'	QGS
PT-142	GPT219	Y168R	19850-54060	CH191	16.0'	QGS
PT-144	GPT215	Y118T-1	19850-54031	CH300	11.0'	QT
PT-145	GPT218	Y147T	19850-68010	CH133	10.5'	QT
PT-146	GPT214		19850-68050	CH125	6.0'	QGS
PT-147	GPT221	Y146R	19850-54070	CH301	6.0'	QGS
PT-148	GPT900		19850-78010		14.0'	QGS
PT-149	GPT227		19850-54020		23.0'	QT
PT-150	GPT222	Y703R	19850-64020	CH302	11.0'	SQT
PT-151	GPT223	Y715R	19850-54090	CH154	11.0'	SQT
PT-152	GPT220	YT02	19850-64031	CH153	11.0'	SQT
PT-153	GPT228		19850-58010		23.0'	SQT
PT-154	GPT233		19850-64050		11.0'	SQT
PT-155	GPT234		19850-54120		11.0'	SQT
PT-156			19850-54150		11.0'	
PT-157	GPT901		19850-27010		11.0'	
PT-158	GPT902		19850-17020		11.0'	
PT-159			19850-0W01			
PZ-30	GPM501	Y107T	1353-18-140A	CH134	12.0'	QT
PZ-31	GPM503	Y157R	SE01-18-140A	CH123	23.0'	QGS
PZ-32	GPM512		1354-18-140A	CH138	24.0'	QT
PZ-33	GPM502	Y107R	S501-18-140A	CH97	10.5'	QGS
PZ-34	GPM508	Y122	4869-18-140A	CH308	10.5'	
PZ-35	GPM504		S210-18-140A		12.0'	QGS
PZ-36	GPM506	Y721RS	VS01-18-601		11.0'	SQT
PZ-37	GPM511	Y701R	RFJ5-18-601		12.0'	SQT
PZ-38	GPM510		RFG1-18-601	CH311	11.0'	SQT
PZ-39	GPM513	Y701J	WL03-18-601		11.0'	SQT
PZ-701	GPM516	Y771R	SEM1-18-601		24.0'	SQT
PZ-702	GPM517		RFP1-18-601		11.0'	SQT
PZ-703			IE07-18-601		11.5'	
PZ-704			RF2A-18-601		11.0'	

# Glow Plugs Failure Analysis Guide



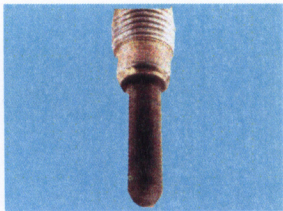
## Swollen Tip



**Cause**  
Moisture has caused plug to swell probably due to timer being on too long or incorrectly stored plug.

**Remedy**  
Investigate timer.  
Do not store plugs in damp conditions.

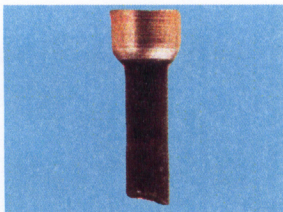
## Carbon deposit filling gap at base of probe



**Cause**  
Excess fuel, or oil getting past the valve stem or piston rings.

**Remedy**  
Replace and repair where necessary.

## Cut off probe



**Cause**  
Injector problem causing a fuel stream sprayed onto the probe.

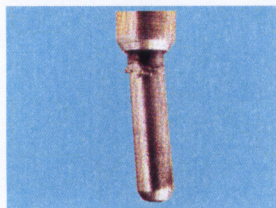
**Remedy**  
Clean, replace or repair injectors.

## Probe surface melting



**Cause**  
Excessive surface temperature due to an injection system fault.

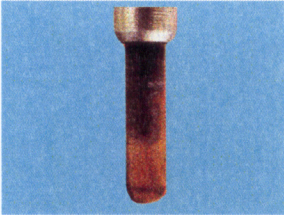
**Remedy**  
Check injection system and timing.



# Glow Plugs Failure Analysis Guide



Probe shows light coloured areas and signs of corrosion



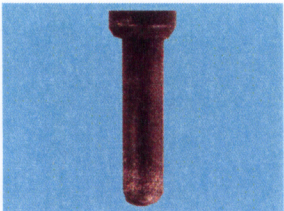
Cause

Leakage of coolant into the combustion area from faulty cylinder head or gasket.

Remedy

Replace cylinder head or gasket.

Plug body showing carbon



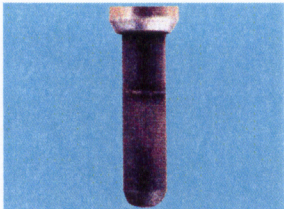
Cause

Insufficient torque or cylinder head or plug seat fault.

Remedy

Investigate pug seat and cylinder head fitment.

Plug showing ridge on probe



Cause

Excess fuel, or oil entering the combustion area.

Remedy

Check injection system and timing.

Probe surface melting



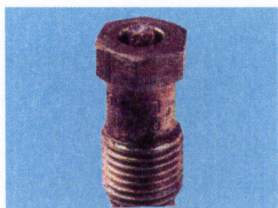
Cause

Excessive temperature due to high oil consumption, pump timing or faulty control relay/timer.

Remedy

Investigate control relay/timer, injection

Plug terminal snapped



Cause

Excess torque applied to terminal nut.

Remedy

Replace faulty plugs applying correct torque.



***QUALITY PRODUCTS SUPPLIED***

*BY*



**Workshop Equipment**



**Glow Plugs**



**Timing Components**



**Timing & Fan Belts, Welsh Plugs**



**Manual 2wd & 4wd Gearbox Kits & Components**



**Centre Bearings, Uni-joints, Wheel bearings**



**Thermostat Housings**



**CV / Rack Boots**



**Balancers & Pulleys**



**Gaskets**



# 2009



**Karmot Pty Ltd**