DESIGN SYMBOLS USED IN NGK SPARK PLUGS

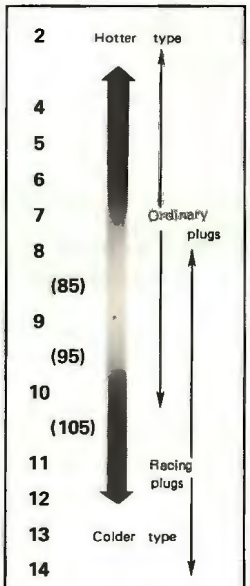
First letter prefix for thread and hexagon size

Letter	Thread size	Hexagon size
A	18mm	25.4mm
B	14mm	20.6mm
C	10mm	16.0mm
D	12mm	18.0mm
F	7/8"–18	23.8mm
G	PF1/2"–14	23.8mm
H	PT1/2"–14	23.8mm

Second & Third letter prefix for construction feature, except single prefix

Letter	Construction feature
B	Hexagon size is 20.6mm
C	Hexagon size is 16.0mm
D	Detouchable shell type
G	Hexagon size is 23.8mm
L	Compact type (Shorty)
M	Compact type (Bantam)
P	Projected insulator nose type
R	Resistor type
S	Shielded type
U	Surface discharge type

Heat rating number



First letter suffix for thread reach

Letter	Thread reach
None	12.0mm (thread dia.-18mm)
	9.5mm (thread dia.-14mm)
	8.5mm (thread dia.-10mm)
	22.5mm (thread dia.-PF1/2"-14)
	27.5mm (thread dia.-PT1/2"-14)
	16.0mm (thread dia. 7/8"-18)
L	11.2mm
H	12.7mm (Racing type 12.5mm)
E	19.0mm (Racing type 18.0mm)
F	Conical seat type: A – F 10.9mm; B – F 11.2mm; BM – F 7.8mm

Second letter suffix for construction feature, etc.

Letter	Construction feature, etc.
A	Thin insulator tip type
B	Special plug for Honda vehicles
C	Competition type
N	Racing plugs, nickel electrode
P	Racing plugs, platinum ground electrode
R	Resistor plugs of shielded type
S	Copper core center electrode (Super)
V	Center electrode of precious metals
W	Tungsten electrode
X	Series gap plugs
Multiple ground electrodes type	
M	2
T	3
Q	4
Others	Except for above letters, there are special plugs of D,J,L,Z, etc.

(* Standard regulation is drawn here. There also exist a few extraordinary symbols.

B P 6 E S 11

Wide gap type (mm)

Typen mit weitem Elektrodenabstand (mm)

(* Die Standard-Typaufschrift ist hier aufgeführt. Es gibt ausserdem noch einige besondere Bezeichnungen.

MARKIERUNGSZEICHEN AUF NGK ZÜNDKERZEN

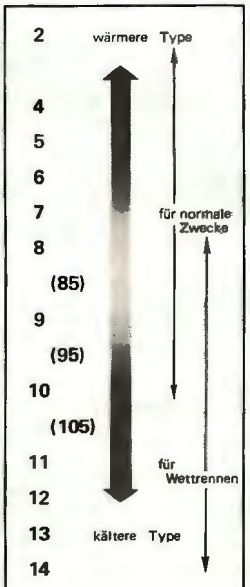
erster Buchstabe hauptsächlich für Gewindedurchmesser

Buchstabe	Gewinde-durchmesser	Standard-Sechskants-schlüsselweite
A	18mm	25,4mm
B	14mm	20,6mm
C	10mm	16,0mm
D	12mm	18,0mm
F	7/8"–18	23,8mm
G	PF1/2"–14	23,8mm
H	PT1/2"–14	23,8mm

Buchstaben hinter dem ersten

Buchstabe	Struktur u.a.
B	Sechskantschlüsselweite wie Typ B (20,6mm)
C	Sechskantschlüsselweite wie Typ C (16,0mm)
D	mit zerlegbaren Metallteilen
G	Sechskantschlüsselweite wie Typ G (23,8mm)
L	Kurzkerze (SHORTY)
M	Kurzkerze (BANTAM)
P	mit vorspringendem Isolator
R	Entstörwiderstandstyp
S	Geschirmtwasserdichtstyp
U	Gleitfunkenstyp

Wärmewert



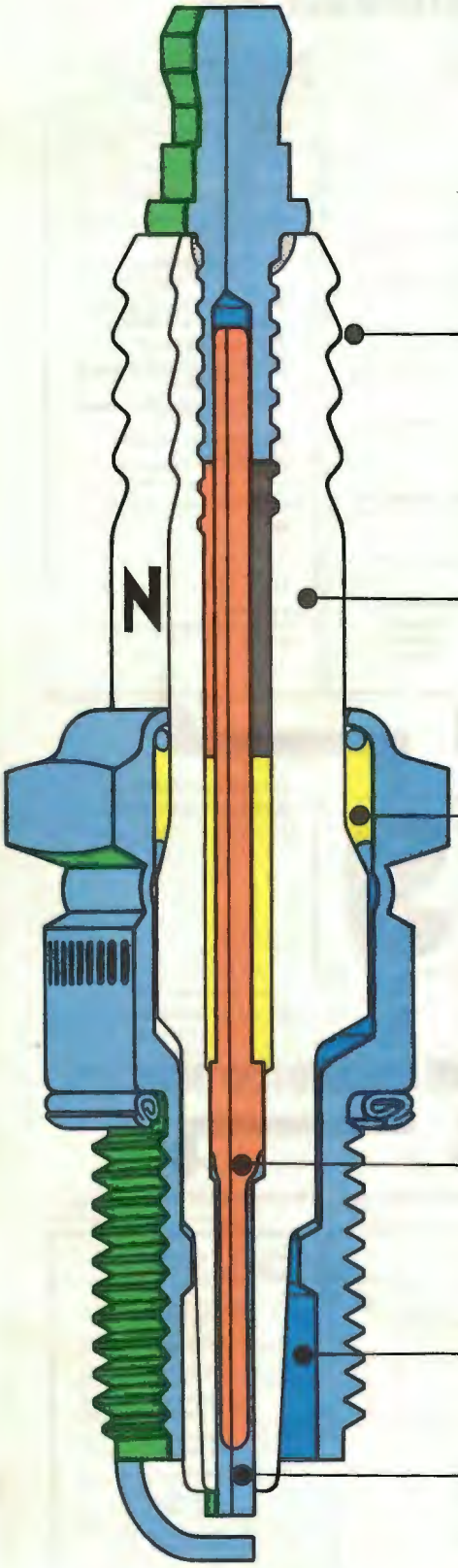
Gewindelängenanzeige

Buchstabe	Gewindelänge
ohne Buchstabe	12.0mm (für 18mm Gewindedurchmesser)
	9,5mm (für 14mm Gewindedurchmesser)
	8.5mm (für 10mm Gewindedurchmesser)
	22,5mm (für PF 1/2"-14)
	27,5mm (für PT 1/2"-14)
	16.0mm (für 7/8"-18)
L	11.2mm
H	12.7mm (12,5mm für Renntyp)
E	19.0mm (18,0mm für Renntyp)
F	Typen mit kegeldichtsitz: A–F 10,9mm; B–F 11,2mm; BM–F 7,8mm

Anzeige für Struktur u.a.

Buchstabe	Struktur u.a.
A	Typen mit dünnerer Isolarfuß
B	Für Honda Fahrzeuge
C	schräge Elektrode
N	für Rennkerze, mit Nickelelektrode (Masseelektrode)
P	für Rennkerze, mit Platinelektrode (Masseelektrode)
R	Entstörwiderstandstyp
S	Mittelelektrode mit Kupferschaft (Super)
V	Mittelelektrode aus Sonderedelmetall
W	Wolframselektroden
X	Vorfunkenstrecke
Vielmasseelektrodenstyp	
M	2
T	3
Q	4
Sonstiges	Es gibt außerdem Sonderausführungen wie D J,L,Z usw.

FEATURES OF NGK SPARK PLUGS



Ribs eliminate flash over

High Alumina Ceramics provides better heat dissipation, higher electrical insulation and stronger thermal shock resistance.

More gaskets and special powder sealing prevent gas leakage and provide a uniform heat range.

Copper electrode core deeply inserted inside the nickel tip, vastly improves heat dissipation and prevents dangerous overheating

Wider space between insulator nose and metal shell reduces fouling and misfiring, keeps the plug cleaner.

Thick, anti-corrosive nickel alloy tip resists overheating, and extends spark plug life.

ANALYZING THE CONDITION OF SPARK PLUGS

Carbon Fouling

Firing-end Appearance

First appears as a dry, black deposit. This deposit begins with occasional misfiring, a problem which consequently leads to sluggish engine performance. Carbon fouling is usually the result of an over-rich fuel mixture, sticking choke, clogged air filter, retarded ignition timing, reduced ignition voltage, continuous low speed operation, or, quite often, because spark plugs of a too cold type are being used.

Remedies

Carbon fouling is mostly the result of an improper fuel mixture ratio requiring that appropriate corrections be made to carburetion.

However, if the cause of carbon fouling is determined to be a result of improper spark plug heat range, the next hotter type of spark plug must be installed to correct the deficiency.

Example: **BP6ES** —Hotter→ **BP5ES**

Carbon Fouling — Calaminage — Verrußen — Suciedad de hollín

Oil Fouling

Firing-end Appearance

This problem appears as a wet, grimy deposit and is most probably caused by worn piston rings or they may not be properly seated if the engine is new or has been recently overhauled. Oil fouling may also be the result of poor carburetor atomization of fuel or by an overly rich fuel mixture causing poor combustion.

Remedies

Spark plugs are unable to fundamentally solve this problem and it may be a good indication that engine overhaul is necessary. However, installing hotter type spark plugs can sometimes help to reduce oil fouling problems.

Example: **BP6ES** —Hotter→ **BP5ES**

Oil Fouling — Dépôt d'huile — Verölung — Suciedad de engrase

Normal Operations

Firing-end Appearance

When the spark plug is functioning as it was intended, the firing end of the plug will take on a greyish or brownish colored deposit and electrode erosion will be slight.

Remedies

1. When re-installing, clean the spark plugs and reset the sparking gap: Usually 0.028" (0.7mm) – 0.032" (0.8mm).
2. When replacement is necessary, use spark plugs of the same heat range. Example: Remove BP6ES – Replace with new BP6ES.
3. Under normal conditions, the life of spark plugs for passenger cars and trucks can be expected to reach 10,000 miles (16,000km).

Normal Operations — Fonctionnement correct — Normalbetrieb — Funcionamiento normal

Overheating (Burnt Out Plugs)

Firing-end Appearance

Blistered white insulator and excessively eroded center-electrode. There are a number of reasons that overheating may become a problem. Among these are improper tightening of spark plugs, ignition timing too advanced, a clogged cooling system, or an improper spark plug installed (wrong heat range).

Remedies

The engine must be properly maintained in order that detonation due to pre-ignition does not occur to cause heavy damage to the engine. If this overheating is determined to be a result of having installed spark plugs which are the hot type, the plugs should be immediately removed and replaced with a colder type spark plug.

Example: **BP6ES** —Colder→ **BP7ES**

Overheating (Burnt Out Plugs) — Surchauffage — Überhitzen (Ausgebrannte — Sobrecalentamiento (Bujías quemadas

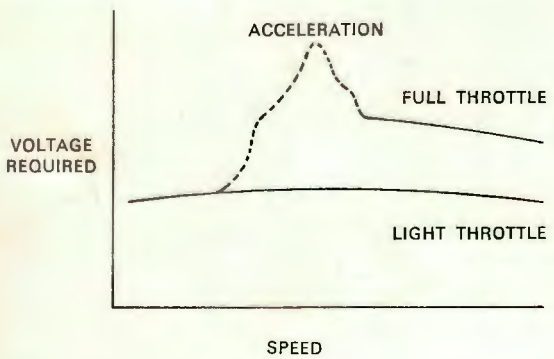
Why Spark Plugs Should Be Replaced at regular intervals . . .

Regular plug replacement gives big benefits in better performance and economy. Here's why old plugs need replacing — And why new Champions make such a difference . . .

WHAT TAKES THE "SPARK" OUT OF SPARK PLUGS

Spark plugs begin wasting fuel, and losing power and performance, when they start to misfire. A plug *fires* when a spark jumps the gap between the electrodes, igniting the fuel/air mixture. A plug *misfires* when a spark cannot jump the gap.

One reason why a spark cannot jump the gap is that more voltage may be needed than is available from the ignition system.



A new plug, with proper gap setting, needs about 5,000—8,000 volts to fire. After 10,000 miles of driving the gap is about ·010″ larger and voltage requirements HAVE DOUBLED. Driving beyond this mileage means even more voltage is needed—and this is only for normal driving. High performance operation increases voltage requirements considerably but high speed driving *reduces* the amount of voltage AVAILABLE because the points don't remain closed long enough to permit full coil saturation.

Even higher voltage requirements—as much as 100% above normal—may occur when the accelerator is quickly floored, as for fast passing on the motorway. This is where misfiring is often first noticed, when the car fails to respond properly.

When plugs misfire noticeably under heavy loads, they often have *unnoticed* misfiring in normal driving. This is one important reason for replacing old plugs, even though they seem to work all right at town driving speeds.

SPARK PLUG HEAT RANGE

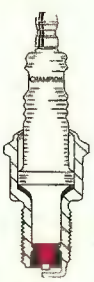
A classification of spark plugs by types in accordance with their ability to transfer heat from the firing end to the engine cooling medium, is termed heat range.

The main factor which determines the spark plug heat range is the length of the insulator tip which extends below the insulator seating gasket in the plug body.

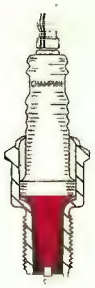
To clarify heat range principle, we illustrate a hot and cold plug.

Where the plug normally recommended suffers from continual oil or carbon deposits on firing end of insulator (cold fouling) substitution with the next hotter ("softer") type will alleviate this condition.

Where the plug normally recommended overheats with consequent excessive electrode burning, substitution with the next colder ("harder") type will alleviate this condition—refer to heat range chart on pages 31-32.



COLD PLUG
Low insulator seat—short core nose, dissipates heat from the insulator and makes a cold plug—for hot engines.



HOT PLUG
High insulator seat—long core nose, allows insulator to retain the maximum amount of heat and makes a hot plug —for use in cold or oily engines.

NOTE: It is advisable to check for contributory engine conditions for example, rich mixture (cold fouling), over advanced ignition timing (overheating, burning), before changing spark plug grade.

CHAMPION

SALES SYMBOLS EXPLANATION

R N 9 YC 4

- B = Taper seat (Fig.6) (page 102)
- C = "Bantam" type (page 104)
- D = Taper seat "Bantam" type
- E = Shielded 5/8" x 24
- O = Wire wound resistor
- Q = Inductive suppressor
- R = Resistor (Fig.5)(page 102)
- T = Special "Bantam" type
- U = Auxiliary gap
- X = Resistor

	Thread	Reach	
A	= 12 mm	3/4"	19 mm
C	= 14 mm	3/4"	19 mm
D	= 18 mm	1/2"	12.7 mm
F	= 18 mm*	.460"	11.7 mm
G	= 10 mm	3/4"	19 mm
H	= 14 mm	7/16"	11.1 mm
J	= 14 mm	3/8"	9.5 mm
K	= 18 mm	different	
L	= 14 mm	1/2"	12.7 mm
		.472"	12 mm
N	= 14 mm	3/4"	19 mm
P	= 12 mm	.492"	12.5 mm
R	= 12 mm	3/4"	19 mm
S	= 14 mm*	.708"	18 mm
V	= 14 mm*	.460	11.7 mm
W	= 7/8" x 18	different	
Y	= 10 mm	1/4"	6.3 mm
		5/16"	7.9 mm
Z	= 10 mm	.492"	12.5 mm

* taper seat

- BL = Taper seat 11.7 mm reach
- BN = Taper seat 18 mm reach
- CJ = "Bantam" 9.5 mm reach
- DJ = "Bantam" taper seat 8.3 mm reach

- A = Conventional
- B = Multiple earth electrode
- C = Copper cored centre electrode
- G = Precious metal centre electrode
- H = Projected core nose ** (Fig.4)(page 102)
- J = Cut back earth electrode (Fig.1)(page 102)
- R = Racing type electrodes Push-in wire electrode
- V = Surface gap (Fig.3)(page 102)
- X = Special feature
- Y = Projected core nose * (Fig.4)(page 102)

- YC = Projected core nose and copper cored centre electrode
- CC = Copper cored ground electrode
- GY = Projected core nose and Precious Metal centre electrode
- BYC = Projected core nose, copper cored centre electrode and 3 earth electrodes

* (0.050" 1.27mm)
** (0.030" 0.76mm)

	Thread	Reach	
CM	= 14 mm	.472"	12 mm
LM	= 14 mm	3/8"	9.5 mm

Heat range reference	Description
1 - 25	General use
26 - 50	Aviation
51 - 75	Racing
76 - 379	Special features

Heat range: Low number = cold
High number = hot

Heat range compatibility examples:

C6YC = C6BYC = C6YCC = C6YCX
C7YC = C7YCC = C7YCX
C9YC = C9YCC = C9YCX
N6YC = N6BYC = N6YCC = N6YCX
N7 = N288
N7Y = N79Y
N7YC = N7BYC = N7YCC = N7YCX = N279YC
N9YC = N9BYC = N9YCC = N9YCX = N281YC
S7YC = S7YCC = S279YC = S379YC
S9YC = S9YCC = S281YC

- 4 = 1 mm electrode gap
- 5 = 1.3 mm electrode gap
- 6 = 1.5 mm electrode gap
- 8 = 2 mm electrode gap

SPARK PLUG HEXAGON SIZES

Thread size	10 mm	12 mm		14 mm				18 mm			
Seating	Gasket	Gasket		Gasket			Taper	Gasket			Taper
First prefix or combination	G, Y, Z	P	R, A	C	CJ	E, H, J, L, N	BL, BN, DJ, S, V	M	B, D	K	F
A/F size inches	5/8"	11/16"	11/16" or 3/4"	5/8"	3/4"	13/16"	5/8"	11/16" or 7/8"	7/8"	1"	13/16"
Metric mm	16 mm	18 mm	18 or 19 mm	16 mm	19 mm	21 mm	16 mm	18 or 23 mm	23 mm	26 mm	21 mm

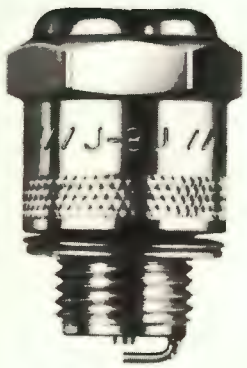


Fig.1

Fig.2

Fig.3

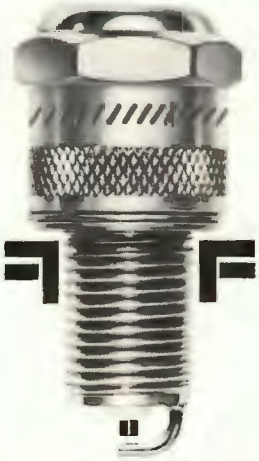


Fig.4

Fig.5

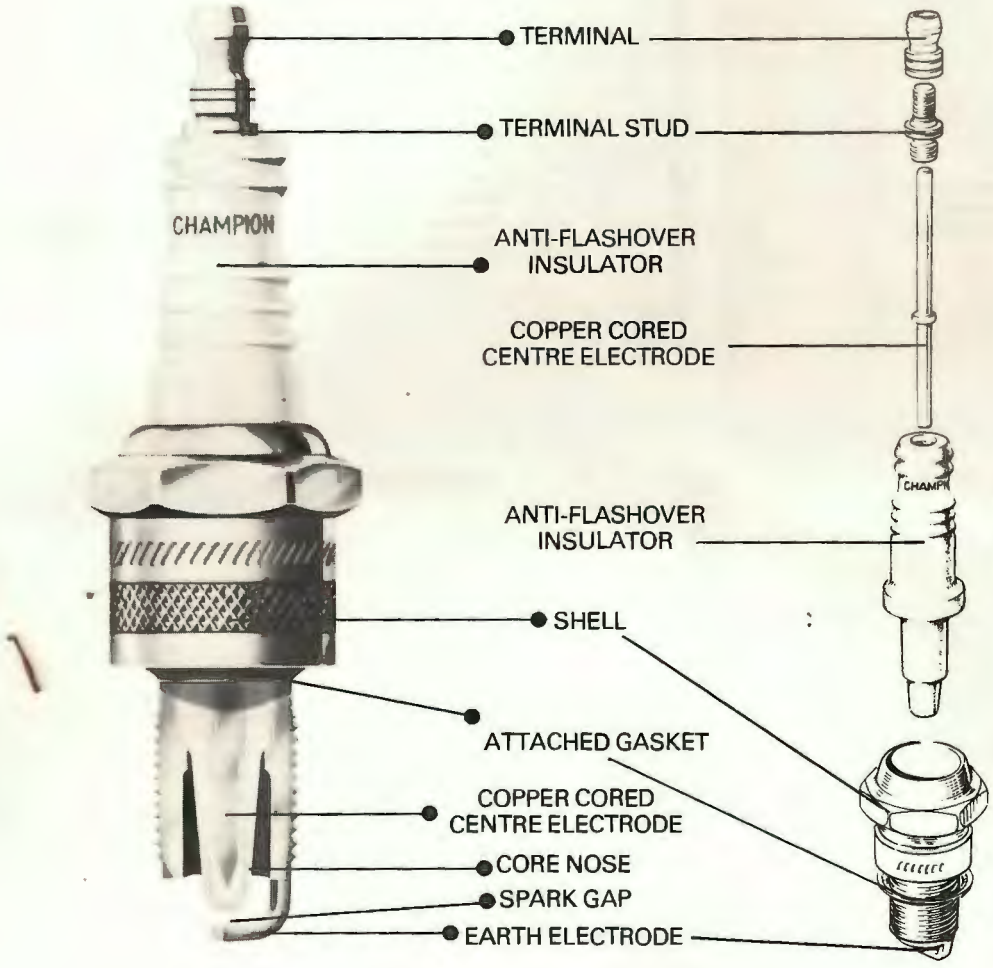
Fig.6

Fig.7

Fig.8

Fig.1 Cut back earth electrode
Fig.2 Retracted gap type
Fig.3 Surface gap type
Fig.4 Projected core nose
Fig.5 Resistor type (sectioned)
Fig.6 Taper seat
Fig.7 14 mm × 3/4" reach × 5/8" hex.
Fig.8 Precious metal

CHAMPION ENGINEERED FEATURES



Std.	✚
N3	N3C
J4J	J4C
N4	N4C
N5	N5C
A6	A6YC
BN6Y	S6YC
J6	J6C
J6J	J6C
N6	N5C
N6Y	N6YC
RBN6Y	RS6YC
RJ6	RJ6C
UJ6	J6C
BN7Y	S7YC
F7Y	F7YC
L7J	L86C

Std.	✚
N7Y	N7YC
RN7Y	RN7YC
J8	J8C
J8J	J8C
N8Y	N7YC
BL9Y	V9YC
BN9Y	S9YC
F9Y	F9YC
N9Y	N9YC
F10	F10C
N10Y	N9YC
F11Y	F11YC
N11Y	N11YC
J12Y	J12YC
N12Y	N12YC

Std.	✚
RN12Y	RN12YC
BL13Y	V12YC
F14Y	F11YC
J14Y	J14YC
N14Y	N12YC
RN14Y	RN12YC
RBL15Y	RV15YC
N16Y	N16YC
J18Y	J18YC
N63Y	N4YC
L77J	L77JC
L77J4	L77JC4
L78	L78C
UJ81J	UJ81C
UL81J	UL81C
L82	L82C
L82Y	L82YC

Std.	✚
L85	L82C
L86	L86C
L87Y	L87YC
L88A	L86C
L92Y	L92YC
860	F10C

CJ = T
RCJ = RT
DJ = B
RDJ = RB
BL = V
RBL = RV
BN = S
RBN = RS

SPARK PLUG CONDITIONS

Typical Spark Plug Conditions.
The condition of spark plug firing ends can act as a guide to the state of tune and general condition of the engine. The examples shown are assumed to be the correct grade for the engine.

CHAMPION

1

Normal

Core nose lightly coated with grey-brown deposits.
Electrodes not burning unduly—gap increasing about .001" per 1,000 miles.
Plugs ideally suited to engine.
Service at about 5,000 miles, or 6 months.
Replace at about 10,000 miles, or 1 year.

2

Heavy Deposits

Possible causes:
Fuel or oil additives.
Excessive upper cylinder lubricant.
Worn valve guides.
Unvarying speed (stationary engine).
Plugs should be satisfactory after servicing.

3

Carbon Fouling

Deposits can short circuit the firing end; weakening or eliminating the spark.
Check for:
Over-rich mixure setting.
Faulty choke mechanism.
Clogged air cleaner.
Plugs should be satisfactory after servicing.

4

Oil Fouling

Deposits can short circuit the firing end; weakening or eliminating the spark.
May be caused by worn valve guides, bores or piston rings, or whilst a new or overhauled engine is running-in.
Cure the oiling problem, if possible.
Temporary use of the next hotter grade of plug may stop the misfire.
Degrease plugs in solvent before abrasive cleaning.
Plugs should be satisfactory after servicing.

5

Overheating

Likely causes are:
Over-advanced ignition timing.
Incorrect distributor advance curve.
Use of fuel with insufficient octane rating.
Weak mixture.
Discard plugs showing signs of overheating, and cure the cause.

6

Initial Pre-ignition

Caused by serious overheating.
Causes are those listed for Overheating, but may be more severe.
Corrective measures are urgently needed before engine damage occurs.
Discard plugs in this condition.

7

Split Core Nose

(May appear initially as a hair-line crack).
Probably caused by detonation waves; indicating:
Over-advanced ignition timing.
Incorrect distributor advance curve.
Use of fuel with insufficient octane rating.
Weak mixture.
Manifold air-leaks.
Cooling system problems.
Incorrect gap-setting technique.

8

Lead Glazing

Caused by lead additives used in fuel.
Deposits can cause misfire.
Check carburation with gas analyser.
Check ignition timing.
Accelerate gently after long periods of low speed driving when the action of the engine will clean off deposit.
Plug cleaning will not effectively remove deposits.
Do not change plug grade.

CHAMPION

SPARK PLUG CONDITIONS

1

2

3

4

5

6

7

8

CHAMPION LINE BY HEAT RANGE

		Standard Types	Resistor types for suppression	Marine and 2-stroke types		Precious Metal types
				Standard	Resistor	
Ø 10 mm x 6.3 mm (¼") * Auxiliary Gap		UY6*				
Ø 10 mm x 7.9 mm (5/16")		Y82				
Ø 10 mm x 12.5 mm (.492") * Projected core nose	Hot ↕ Cold	Z9Y* Z6	RZ8			
Ø 10 mm x 19 mm (¾")	Hot ↕ Cold	G3 G63 G61 G58 G55				
Ø 10 mm x 19 mm (¾") Retracted gap	Hot ↕ Cold	G59R G56R G54R				
Ø 12 mm x 12.5 mm (.492") * Projected core nose	Hot ↕ Cold	P10Y* P8Y* P7				
Ø 12 mm x 19 mm (¾") (1 1/16" Hexagon) * ¾" Hexagon	Hot ↕ Cold	A10 A6 A61* A59R A56R A54R A52R				A6G A61G A59G A57G A55G
Ø 12 mm x 19 mm (¾") Projected core nose	Hot ↕ Cold	A8HC, A8YC A6HC, A6YC A5YC A4HC A2HC	RA16YC RA8HC,RA8YC RA6HC,RA6YC RA4HC RA2HC			
Ø 14 mm x 9.5 mm (⅜") * Auxiliary gap	Hot ↕ Cold	UJ12* J11 J8, J8C J17LM J6, UJ6*, J6C J4C UJ2J	RJ12 RJ11 RJ8C RJ17LM RJ6C	J14J J12J J11J J6J J4J, UJ81J* UJ81C		UJ11G*
Ø 14 mm x 9.5 mm (⅜") Bantam * Auxiliary gap	Hot ↕ Cold	CJ14 CJ8 CJ88 CJ86 CJ6 CJ4 CJ3	RCJ8 RCJ4			
Ø 14 mm x 8.3 mm (.325") Bantam/Taper seat * Projected core nose	Hot ↕ Cold			DJ8J DJ7J, DJ7Y* DJ6J, DJ6Y*	RDJ8J RDJ7J/RDJ7Y RDJ6J	
Ø 14 mm x 9.5 mm (⅜") Retracted gap	Hot ↕ Cold	J57R				

CHAMPION LINE BY HEAT RANGE

		Standard Types	Resistor types for suppression	Marine and 2-stroke types		Precious Metal types
				Standard	Resistor	
Ø 14 mm x 9.5 mm (3/8") Projected core nose	Hot ↕ Cold	J18YC J14YC J12YC J86Y	RJ18YC, RJ18YC6, 8 RJ14YC RJ12YC XJ10Y			
Ø 14 mm x 9.5 mm (3/8") Projected core nose Bantam	Hot ↕ Cold	CJ8Y CJ7Y CJ6Y	RCJ8Y RCJ7Y RCJ6Y			
Ø 14 mm x 11.1 mm (7/16")	Hot ↕ Cold	H12 H10,H10C H8,H8C	RH12 RH10,RH10C RH8,RH8C	H10J H8J		
Ø 14 mm x 11.1 mm (7/16") Projected core nose	Hot ↕ Cold	H18Y H14Y	RH18Y			
Ø 14 mm x 12.7 mm (1/2") * 12 mm (.472") reach	Hot ↕ Cold	L89CM L86C, L86CC L85* L82, L82C L78, L78C	RL86C* UL81C, RL82C RL78C	L89CM L86C, L86CC L82, L82C, UL81C L78, L78C L77J, L77JC, L77JC4	RL86C* RL4J,RL82C RL78C QL77JC4	RL85G L55G
Ø 14mm x 12.7 mm (1/2") Retracted gap	Hot ↕ Cold	L60R L87R L84R				
Ø 14 mm x 12.7 mm (1/2") Projected core nose	Hot ↕ Cold	L95Y,L95YC L92Y, L92YC L87Y, L87YC, L87YC4,L87YCC L82YC,L82YCC L61Y	RL92YC RL87YC RL82YC,RL82YCC			
Ø 14 mm x 11.7 mm (.460") Taper seat	Hot ↕ Cold	BL6 BL5 V4C BL60 BL57 BL55	RV12C, RV12C6 RV8C, RV8C6			
Ø 14 mm x 11.7 mm (.460") Retracted gap Taper seat	Hot ↕ Cold	BL57R				

CHAMPION LINE BY HEAT RANGE

		Standard Types	Resistor types for suppression	Marine and 2-stroke types		Precious Metal types
				Standard	Resistor	
∅ 14 mm x 11.7 mm (.460")	Hot		RV17YC, RV17YC6			
			RBL16Y			
		V15YC	RV15YC, 4, 6, 8			
		V12YC	RV12YC, 6			
		V9YC	RV9YC			
		BL64Y				
Projected core nose		BL62Y				
Taper seat		BL60Y				
	Cold	BL57Y				
∅ 14 mm x 19 mm (¾")	Hot	N21				
		N8	RN8			
		N6				
		N5C	RN5C			
		N4C, N7, N288	RN4C			
		N3, N3C, N87	RN3C		ON3,QN3C	N3G, RN3G*, N87G
		N2C, N86	RN2C,QN86		QN2C	N2G, N86G
		N60				
		N1, N57, N84				N84G
		N82				N82G
* Resistor type	Cold	N80				N80G
∅ 14 mm x 19 mm (¾")	Hot	N62R				
		N60R				
		N57R				
		N54R				
Retracted gap	Cold	N52R				
∅ 14 mm x 19 mm (¾")	Hot	N180B	RN180B			
2 earth electrodes	Cold					
∅ 14 mm x 19 mm (¾")	Hot	N16YC	RN16YC5			
		N14Y	RN14YC			
Projected core nose		C12YC*,N12Y,	RC12YC*,5*,RN12YC,6,			
		N12YC, N12YCC	RN12YCC			
		N11Y,N11YC,4,N11YCC	RN11YC,4,RN11YCC			
		N10Y,C10YCC*				
		N9YC,4,N9YCC,N281YC,	RN9YC,4,RN9YCC,			
		N9YBC**,N9YBC4,	RN281YC,RN9YCX*			
		N9YCX,C9YC*,C9YCC*,	RC9YC*,4*,RC9YCC,			C9GY*
		C9YCX*,C281YC*	RC9YCX*,4*,RC281YC*			
		N8Y				N8GY
		N79Y,N7Y,N7YC,4,	RN7YC,RN7YCC,RN7YCX,			N7GY
		N7YCC,N7BYC**,N7YCX,				
		N279YC,C7YC*,C7YCC*,	RC7YCC*,RC7YC*,4*			C7GY*
		C7YCX*,C279YC	RC279YC*,RC7BYC**,RC7YCX*			
		N6YC,N6YCC,N6BYC**,	RN6YC, RN6YCX,			N6GY
		N6YCX,C6YCC,C6YCX,	RC6YC*			
* 16 mm (⅝") Hexagon		C6BYC				
** 3 earth electrodes		N4YC	RN4YC			
	Cold	N63Y				
		N60Y				
∅ 14 mm x 19 mm (¾")	Hot					
		FN14LY	RFN14LY			
Extended gap		N14LY*				
		N13L	RN13L,RN13LYC*			
* Projected core nose	Cold	N8L	RN8L			
∅ 14 mm x 18 mm (.708")	Hot		RS16YC			
		S14YC	RS14YC			
Projected core nose		S12YC,S12YCC	RS12YC,6			
Taper seat		S10YCC,S10YCX				
		BN9Y,S9YC,6,S9YCC,	RS9YC,RS9YCC,RS9YCX,			RBN9GY
		S281YC	RS281YC			
* Non-projected		BN7Y,S7YC,S7YCC,	RS7YC,RS279YC			
		S279YC,S379YC				
		BN6Y,S6YC,S6YCC	RS6YC			
			RS5C*			
			RBN4*			
	Cold	BN63Y				
		BN60Y, BN60*				
		BN57*, BN2*				
∅ 14 mm x 18 mm (.708")	Hot					
		BN57R				
Retracted gap		BN54R				
Taper seat	Cold					

CHAMPION LINE BY HEAT RANGE

		Standard Types	Resistor types for suppression	Marine and 2-stroke types		Precious Metal types
				Standard	Resistor	
Ø 18 mm x 12.7 mm (½")	Hot ↕ Cold	D23* D21 D16, UD16† D14 D9 D6	 RD16 RD14 RD9	 D16J D9J	 RD16J	
* 16 mm (⅝") reach † Auxiliary gap						
Ø 18 mm x 12.7 mm (½") Projected core nose	Hot ↕ Cold	D18Y D15Y	RD18Y RD15Y			
Ø 18 mm x 12.7 mm (½")		D89D				
Ø 18 mm x 11.3 mm (.445")	Hot ↕ Cold	K13 UK10* K8 K7		K15J		
† 12.7 mm (½") reach * Auxiliary gap						
Ø 18 mm x 11.7 mm (.460") Taper seat	Hot ↕ Cold	F10C F82	RF10C			
Ø 18 mm x 11.7 mm (.460") Retracted gap Taper seat	Hot ↕ Cold	F60R F57R				
Ø 18 mm x 11.7 mm (.460") Projected core nose Taper seat	Hot ↕ Cold	F14YC F11YC F9Y, F9YC F7YC,F7YCC,F83Y F81Y F79Y	RF14YC RF11YC RF9YC RF7YC			
Ø 18 mm x 11.3 mm (.445") (Hesselman)	Hot ↕ Cold	K97F				
⅞" – 18	Hot ↕ Cold	W95D W89D W20 W18 W16Y W14 W10				
½" – 14 Tapered thread		25				

CHAMPION

REPLACEMENT LIST FOR DISCONTINUED SPARK PLUGS

Discontinued	Replaced by
0Com	W10
C0	W14
E0Com	EW90
1	W14
1Com	W14
C1	W18
ORD1	XMJ14
QN1	N1
TAC1	REL88B
2	W18
2Com	W18
2Com.L	W18
J2	J57R
ORD2	XMJ17
QN2	QN2C
QN2G	QN2C
RN2	RN2C
RN2G	RN2C
TAC2	RML12
3	W16Y
3Com	W18
BL3	V4C
QN3	QN3C
RN3	RN3C
XN3	RN3C
4	W16Y
4Com	D6
BL4	V4C
C4	W16Y
C4X	W16Y
J4	J4C
J4JM	J4C
L4J	L82C
N4	N4C
N4G	N4C
RJ4	J4C
RN4G	RN4C
TAC4	XML12
UCJ4G	CJ4
X4Com	D6
XJ4J	J4C
XN4	RN4C
Y4	UY6
Y4A	UY6
5	3X
5Com	D9
5M	D9J
5MJ	D9J
C5	W14
E5Com	ED9
J5	J6C
J5Com	RJ81B
J5J	J6C
L5J	L82C
N5	N5C
N5G	N5C
N5M	N5C
RN5	RN5C
X5Com	RD9
XE5Com	ED9
XEJ5	RJ6C
XJ5	RJ6C
XN5	RN5C
Y5	UY6
6	W18
6Com	D14
6M	K15J
6MJ	K15J
A6Y	A6YC
DJ6	DJ6J
E6Com	XED14
EJ6	XEJ6
J6JM	J6C
JT6	CJ6
KCJ6	CJ6
N6Y	N6YC
N6Y	N6YCC
P6	P7
R6	A6YC
RA6Y	RA6YC
RD6	D6
RJ6	RJ6C
RJ6J	RJ6C
RN6	RN5C
RN6GY	RN6YC
RN6Y	RN6YC
UJ6M	J6C
X6Com	RD14
XD6	D6
XEG6-Com	XED14
XEJ6J	XEJ6
XJ6	RJ6C
XJ6J	RJ6C
XN6	RN5C
XY6	UY6
Y6	UY6
7	D16
7Com	D16
BL7Y	V9YC
C7	D16
E7	XED16
F7Y	F7YC
J7J	J8C
J7JM	J8C
L7	L82C
L7J	L82C
P7G	P7
P7Y	P8Y
QL7J	RL82C
R7B	D6
RBN7Y	RS7YC
RJ7	RJ8C
RL7J	RL82C
RN7Y	RN7YC
RN7Y	RN7YCC
UCJ7G	CJ8
UJ7G	UJ11G
UK7	K7
XE7	XED16
XEJ7	XEJ8
XJ7	RJ8C
XL7	RN82C
8	D16
8Com	D16
8Com.C	D23
8Com.D	D23
8Com.K	D15Y
8Spec.	D16
A8	A8HC
BL8	RV8C
D8	K97F
DJ8	DJ8J
E8Com.	XED16
ED8	K97F
EH8	XEH8
EJ8	XEJ8
EJ8J	XEJ8
H8JM	H8J
J8J	J8C
J8JM	J8C
JT8	CJ8
L8	L86C
L8	L86CC
LB8	L86C
LB8	L86CC
N8B	N8
NA8	N5C
P8G	P7
RBL8	RV8C
RBL8-6	RV8C6
RJ8	RJ8C
RJ8J	RJ8C
UCJ8G	CJ8
X8Com	RD16
XE8Com	XED16
XEH8J	XEH8
XEJ8J	XEJ8
XH8	RH8
XH8J	RH8
XJ8	RJ8C
XJ8J	RJ8C
XN8	RN8
XN8B	RN8
XNA8	RN5C
Y8	UY6
Z8	Z9Y
9	D21
9Com	D23
D9JM	D9J
EH9	XEH8
EK9	ED9
H9	H8
H9Com	H8
H9J	H8J
J9Long	H10
J9	J6C
J9J	J6C
J9Y	J12YC
K9	K8
L9G	L82C
N9Y	N9YC
N9Y	N9YCC
OBL9Y	RV9YC
RBN9Y	RS9YC
RBN9Y	RS9YCC
RF9Y	RF9YC
RF9Y5	RF9YC
RN9GY	RN9YC
RN9GY	RN9YCC
UF9Y	F9YC
XD9	RD9
XE9	XED16
XED9-Com	XED16
XEH9	XEH8
XEK9	ED9
XF9Y	RF9YC
XH9	RH8
XJ9Y	RJ12YC
XN9Y	RN9YC
XN9Y	RN9YCC
10	D16
10Com	D23
10Com.64	D23
C10S	XEJ6
D10	D9
EC10	EW90
EH10	XEH8
F10	F10C
H10JM	H10J
HT10J	CJ8
J10Com	J6C
J10Com.J	J6C
L10S	L82C
NA10	N3C
N10PY	N11YC
N10PY	N11YCC
N10Y4	N11YC4
P10	P8Y
R10	A8HC
RF10	RF10C
RJ10Y	RJ12YC
RN10Y	RN11YC
RN10Y	RN11YCC
RN10Y4	RN11YC4
UJ10Y	J12YC
XEF10	EF10
XEH10	XEH8
XF10	RF10C
XH10	RH10
XH10J	RH10
XL10S	RL82C
XN10Y	RN11YC
XN10Y	RN11YCC
Z10	Z9Y
Z10G	Z9Y
11	D16
BL11Y	V12YC
CJ11	CJ8
EH11	XEH8
EJ11	XEJ12
F11Y	F11YC
H11	H10
H11J	H10
J11JM	J11J
J11Y	J12YC
K11	UK10
L11S	L82C
OJ11Y	RJ12YC
ON11Y	RN11YC
ON11Y	RN11YCC
RBL11Y	RV12YC
RBL11Y6	RV12YC6
RF11Y	RF11YC
RJ11Y	RJ12YC
RN11Y	RN11YC
RN11Y	RN11YCC
UF11Y	F11YC
UJ11P	UJ11G
XEH11	XEH8
XEJ11	XEJ12
XF11Y	RF11YC
XH11	RH10
XJ11	RJ11
XJ11Y	RJ12YC
12	D16
BN12Y	S12YC
BN12Y	S12YCC
EJ12	XEJ12
H12J	H12
J12	UJ12
J12JM	J12J
J12Y	J12YC
L12Y	L87YC
L12Y	L87YCC
NA12	N57R
ON12Y	RN12YC
ON12Y	RN12YCC
P12Y	P10Y
RBL12	RV12C
RBN12Y	RS12YC
RF12-5	RF10C
RJ12Y6	RJ12YC6
RL12Y	RL87YC
RN12GY	RN12YC
RN12GY	RN12YCC
RN12Y	RN12YC
RN12Y	RN12YCC
RZN12Y	RS12YC
RZN12Y5	RS12YC6
UJ12Y	J12YC
UL12Y	L87YC
UL12Y	L87YCC
UN12Y	N12YC
UN12Y	N12YCC
XH12	RH10
XJ12	RJ12
XJ12J	RJ12
XJ12Y	RJ12YC
XL12Y	RL87YC
XN12Y	RN12YC
XN12Y	RN12YCC
13	D16
BL13Y	V12YC
N13Y	N12YC
N13Y	N12YCC
OJ13Y	RJ12YC
RBL13Y	RV12YC
RBL13Y6	RV12YC6
RBN13Y	RS12YC
RJ13Y	RJ12YC
UBL13Y	V12YC
14	D16
D14M	D14
EC14	EW90
EF14	EF10
EJ14	XEJ12
F14Y	RF14YC
J14	UJ12
J14-64CL	J99
J14C1	J99
J14Y	J14YC
L14	L86C
L14	L86CC
MJ14	XMJ14
NA14	N54R
RBN14Y	RS14YC
RBN14Y4	RS14YC
RF14Y	RF14YC
RF14Y4	RF14YC
RJ14Y	RJ14YC
RN14Y	RN12YC
RN14Y	RN12YCC
RN14Y6	RN12YC6
UEJ14	XEJ12
UF14Y	RF14YC
XD14	RD14
XEJ14	XEJ12
XF14Y	RF14YC
XH14Y	H14Y
XJ14Y	RJ14YC
XN14Y	RN12YC
XN14Y	RN12YCC
15	D16
15A	D16
15Sp	D16
A15	25
C15	D21
JI15	K15J
L15Y	L95YC
RBL15Y	RV15YC
RBL15Y4	RV15YC4
RBL15Y6	RV15YC6
RBL15Y8	RV15YC8
UD15Y	D15Y
UL15Y	L95Y
XEC15	XED16
C16C	W16Y
D16M	D16
ED16	XED16
H16	D6
H16A	D6
N16Y	N16YC
RN16Y	N16YC
UED16	XED16
UK16V	K7
XD16	RD16
XD16J	RD16J
XN16Y	N16YC
H17	D9
H17A	D9
RBL17Y	RV17YC
RBL17Y6	RV17YC6
UDJ17V	CJ4
UJ17V	UJ2J
18	K15J
J18Y	J18YC
N18	N16YC
RJ18Y	RJ18YC
RJ18Y6	RJ18YC6
RJ18Y8	RJ18YC8
UJ18Y	J18YC
XEN18	XEN14
XH18Y	RH18Y
XJ18Y	RJ18YC
J19V	UJ2J
L19V	L20V
UL19V	UL81C
XMJ19	XMJ20
20	W20
RJ20Y	RJ18YC
XJ20Y	RJ18YC
21	W10
XED21	XED16
22	W20
F22	F11YC
J23	25
A24	25
A25	25
A26	D16
35Com.	W18
36	C97B
C36	B86N
41	K97F
42	K97F
43	W18
A43	W14
B43	W16Y
J43	W18
JA43	W16Y
JAS43	W16Y
JB43	W18
JC43	W16Y
44	W89D
A44	W16Y
A-44-44D	W89D
GH44	W18
45	W95D
46	W95D
49	D89D
E49	ED89D
XE49	ED89D
A53	W18
AA53	W18
B53	W16Y
JA53	W18
JC53	W18
L53R	L84R
L53T	L84R
G54	C97B
L54R	L84R
L55R	L84R
L55T	L84R
R56R	A56R
N57G	N82G
F58R	F57R
J58R	J57R
J58T	J57R
N58R	N57R
E59R	N60R
N59G	N84G
QN59G	N84G
R59G	A59G
RN59G	N84G
BL60R	BL57R
F60Y	F79Y
61S	ED9
F61R	F60R
N61Y	N60Y
R61	A61
62S	XED14
F62R	F60R
F62Y	F81Y
L62R	L60R
N62Y	N60Y
L63R	L60R
N63R	N62R
A64	D16
J64J	J6C
J64Y	J86Y
A65	D16
N65Y	N7YC
N65Y	N7YCC
L66Y	L82YC
L66Y	L82YCC
N66Y	N9YC
N66Y	N9YCC
72	W10
73	W10
D77V	D6
HW77N	RHW77N
L77J4	L77JC4
L77V	L76V
QL77J4	QL77JC4
QL77V	QL76V
RL77J	L77JC
RN77B	N2C
RL78	RL78C
RM78P	RM77N
XL78	RL78C
D79Y	D78Y
J79	UJ2J
HW80N	RHW80N
RF80N	RF10C
RM80F	RM79F
L81	L82C
QL81Y	QL82YC
UJ81J	UJ81C
UL81J	UL81C
L82Y	L82YC
L82Y	L82YCC
RL82	RL82C
UL82Y	L82YC
UL82Y	L82YCC
L83R	L84R
N83R	N60R
EC85N	REW80N
RL85P	RL85G
XL85	RL82C
L86	L86C
L86	L86CC
QL86	RL86C
RL86	RL86C
UY86	UY6
J87B	J6C
RJ87P	RJ12YC
RL87Y	RL87YC
XL87Y	RL87YC
C88	REL88B
C88S	REL88B
H88	H8
K88S	REL88B
L88	L86C
L88	L86CC
L88A	L86C
L88A	L86CC
RC88S	REL88B
RJ88P	J6C
ED89F	ED89D
N89Y	N9YC
N89Y	N9YCC
UED89D	ED89D
XED89D	ED89D
XED89DXI	ED89D
L90	L86C
L90	L86CC
RL90	RL86C
J91	CJ8
HC95F	HW83F
RWP102	RW82P
UK112	K7
UK162	K7
N178B	N179BC
GR196	G56R
L288	L86C
L288	L86CC
730	L87YC
730	L87YCC
X730	RL87YC
E805	UED88G
808	D14N
813	D21
820	ED9
860	F11YC
X860	RF11YC
870	F14YC
X870	RF14YC
901	W85N
E901	REW80N
905	C95F

CROSS REFERENCE

WARNING
This cross reference list is to be used for general assistance only. Spark plug manufacturers use different materials and construction methods. This can lead to differences in heat range for example. To be sure of the correct spark plug recommendation it is essential to use the application sections of this catalogue, or consult the car manufacturer's manual.

CHAMPION

AC TO CHAMPION

AC	CHAMPION	AC	CHAMPION	AC	CHAMPION	AC	CHAMPION	AC	CHAMPION
18	W89D	47XL	N8	CR82	RD9	R42TS	RV9YC	R46SZ	RJ18YC6
18A	D89D	78S	W16Y	CR83T	RF10C	R42TSM	RV9YC	R46T	RV12C
40TS	V9YC	84CTS	F7YC	CS40	CJ4	R42XL	RN3C	R46TS	RV17YC
41CXLS	N7YC	83TS	F9YC	CS41T	DJ6J	R42XLS	RN9YC	R46TSX	RV17YC6
41TS	V9YC	84T	F10C	CS42	CJ6	R42XLS6	RN9YC4	R46TX	RV12C6
41XL	N2C	84TS	F11YC	CS42S	CJ7Y	R42XLSM	RN8L	R46XL	RN8
41XLS	N9YC	85T	F10C	CS42T	DJ7J	R43	RJ6C	R46XLS	RN16YC
42	L82C	85TS	F11YC	CS44TA	DJ7J	R43C	RJ6C	R47S	RJ18YC
42CF	L86C	86TS	F11YC	CS45	CJ8	R43CFS	RL87YC	R47SX	RJ18YC
42CXLS	N9YC	B403	UJ11G	CS45T	DJ8J	R43CS	RJ12YC	R47SX	RJ18YC6
42-6FS	L87YC	B43	J6C	CS49	CJ14	R43CTS	RV12YC	R800	RM77N
42FS	L82YC	B44S	J12YC	FR2CLS	RC9YC	R43CTS6	RV12YC6	R83CT	RF10C
42S	J12YC	B45	J8C	FR3CLS	RC12YC	R43CXL	RN4C	R83CTS	RF9YC
42TS	V9YC	C41CXLS	N6YC	FR3LS	RC12YC	R43LTS	RS12YC	R84TS	RF11YC
42XL	N3C	C41CXLS	N279YC	FR3LS6	RC12YC5	R43LTSX	RS12YC	R84TSX	RF11YC
42XLS	N11YC	C42-1	J4C	FR4LE	RC12YC	R43NTS6	RS12YC6	R85T	RF10C
436T	V4C	C42CLTS	S279YC	FR5LS	RC12YC	R43TSX	RV12YC	R85TS	RF11YC
436TS	BL60Y	C42CXLS	N281YC	G53	C95F	R43TX	RV8C6	R86T	RF10C
438T	V4C	C42CXLS	N9YC	LM46	J17LM	R43XL	RN4C	R86TS5	RF11YC4
43C	J6C	C42N	N4C	LM49	CJ14	R44	RJ8C	S102F	Z9Y
43CTS	V12YC	C43	J6C	M40FFX	L77JC4	R44CF	RL86C	S104F	Z9Y
43CXLS	N11YC	C43L	H8	M41FF	L77JC	R44CNTSE	RE10LC	S121XL	RA6YC
43FS	L87YC	C43N	N5C	M42FF	L82C	R44CXL	RN5C	S122F	P7
43LS	H14Y	C44	J8C	M42K	J4C	R44CXLS	RN11YC	S123XL	RA6YC
43N	N4C	C44N	N5C	M43FF	RL86C	R44F	L86C	S124FS	P8Y
43S	J12YC	C44NS	N11YC	M43S	J12YC	R44LT	RBN4	S404XLG	N57R
43TS	V12YC	C44S	J12YC	M44C	J6C	R44LTS	RS12YC	S408XLG	N60R
43XL	N4C	C44XL	N4C	M44L	H10J	R44LTSM	RS13LYC	S40F	L82C
43XLS	N9YC	C45L	H10	M45	J8C	R44LTS6	RS12YC6	S40XL	N1
44	J8C	C45W	CJ6	M45FF	L86C	R44N	RN5C	S40XLG	N84G
44CF	L86C	C47W	CJ8	M47	J12J	R44NS	RN12YC	S41F	L78C
440XLS	N6YC	C49	UJ12	M8	UY6	R44S	RJ12YC	S41XL	N2C
44F	L86C	C73	W10	MB42K	J4C	R44SX	RJ12YC6	S41XLR	RN2C
44FFS	L92YC	C75	W14	MR41T	V4C	R44T	RV8C	S42	J4C
44N	N5C	C77	W20	MR42FF	RL82C	R44TS	RV12YC	S42F	L82C
44NS	N12YC	C77L	W18	MR43FF	L86C	R44TS8	RV12YC6	S42XL	N3C
44S	J12YC	C81	D14N	MR43T	RV8C	R44TSX	RV15YC4	S42XLR	RN3C
44TS	V12YC	C82	D9	MR44C	RJ6C	R44TX	RV8C6	S438XLG	N52R
44XL	N5C	C82T	F82	MR44T	RV8C	R44XL	RN5C	S438XLS	N6YC
44XLO	N12YC	C83	D9	R121CXLS	RA6YC	R44XLSE	RN14LY	S44	J8C
44XLS	N12YC	C83T	F10C	R40TS	RV9YC	R44XLSM	RN13L	S44F	L86C
45	J8C	C84T	F10C	R41CF	RL78C	R45	RJ8C	S44XL	N5C
45C	J8C	C85S	D15Y	R41CXL	RN2C	R45LS	RH10	S45F	L86C
45CXLS	N16YC	C85TS	RF11YC	R41CXL	RN2C	R45NS	RN12YC	S46	J11
45F	L86C	C86	D16	R41CXLS	RN7YC	R45NSX	RN12YC6	S82F	K8
45FFS	L92YC	C86S	D18Y	R41T	V4C	R45S	RJ12YC	S83F	K8
45L	H10	C88	D21	R41TS	RV9YC	R45SX	RJ12YC6	S85F	K13
45LS	H18Y	C88L	D23	R41XL	N2C	R45T	RV8C	SR84E	XED14
45NS	N12YC	CR42LTS	RS9YC	R42CF	RL82C	R45TS	RV15YC	SV4XL	N19V
45S	J14YC	CR42N	RN4C	R42CFS	RL82YC	R45TS8	RV15YC8	V40FFG	L78V
45TS	RV15YC	CR43	RJ6C	R42CLTS	RS9YC	R45TSX	RV15YC4	V40FFM	L78V
45XL	N5C	CR43CXLS	RN11YC	R42CLTS6	RS12YC6	R45XL	RN5C	V40FFS	L78V
46	J11	CR43K	RJ6C	R42CT	V4C	R45XLS	RN12YC	VB40FFM	UL77V
46F	L86C	CR43L	RH8	R42CTS	RV9YC	R45XLS6	RN12YC6	VR40FFK	QL78V
46FFS	L92YC	CR43N	RN4C	R42CTS	RV9YC	R46	RJ11	VR40FFM	QL76V
46S	J18YC	CR43S	RJ12YC	R42CXL	RN3C	R46LTS	RS12YC		
46TS	RV17YC	CR44N	RN5C	R42CXLS	RN9YC	R46N	RN8		
46XL	N8	CR44NS	N11YC	R42LTS	S9YC	R46S	RJ18YC		
46XLS	N16YC	CR45	RH10	R42S	RJ12YC	R46SX	RJ18YC8		

BERU TO CHAMPION

BERU	CHAMPION	BERU	CHAMPION	BERU	CHAMPION	BERU	CHAMPION	BERU	CHAMPION
14-10A	L86C	18-8A	D14	14KR-6BU	RV9YC	14-7DU	N9YC	12-5DU	RA6YC
14-10B	L92YC	18K-8B	F9YC	14-6DU	N7YC	14-7DU	N9YCX	95/14	L92YC
14-8A	L86C	18-7A	D9	14-6DU	N279YC	14-7DU	N281YC	125/14/3	W10
14-8B	L92YC	18-5A	K10	14-6DU	N7YCX	14F-7DU	C9YCX	145/14	L86C
14-8C	N5C	18-4A1	D9	14F-6DU	C7YC	14F-7DU	C281YC	145/14/3	N5C
14-7A	L86C	14-4CS1	N62R	14F-6DU	C7YCX	14K-7DU	S9YC	145/14/5	J8C
14-7B	L87YC	14Z-3AU	L78C	14FR-6DU	RC7YC	14K-7DU	S281YC	175/14	L86C
14-7D	N9YC	14Z-3CU	N2C	14K-6DU	S7YC	14R-7DU	RN9YC	175/14A	L87YC
14C-7D	RSN12Y	14Z-4AU	L82C	14KR-6DU	RS7YC	14-7DTU	N9BYC	175/14/3A	N9YC
14K-7D	S9YC	14-5BU	L82YC	14R-6DU	RN7YC	14-8DU	N11YC	200/14/3A	N7YC
14R-7DU	RN9YC	14-5DU	N6YC	14-6DTU	N6BYC	14K-8DU	S10YCC	225/14	L82C
14-6D	N7YC	14-5DTU	N6BYC	14F-6DTU	C6BYC	14R-8DU	RN9YC	225/14A	L82YC
14-5A	L82C	14F-5DU	C7YC	14-7AU	L86C	14-8DTU	N9BYC	225/14/3A	N6YC
14-5B	L82YC	14K-5DU	S6YC	14-7BU	L87YC	14-9DU	N11YC	260/14	L82C
14-5D	N6YC	14K-5DU	S379YC	14-7CU	N288	14K-9DU	S12YC	95/18	D16
14-4A1	L82C	14R-5DU	RN6YC	14R-7BU	RL82YC	14K-7DU	S9YC	145/18	D14
18-10A	D16	14FR-5DU	RC6YC	14R-7CU	RN4C	12-5DU	RA6YC	145/18K	F9YC

CHAMPION

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CROSS REFERENCE

BERU TO CHAMPION

BERU	CHAMPION	BERU	CHAMPION	BERU	CHAMPION	BERU	CHAMPION	BERU	CHAMPION
175/18	D10	260/14/3S	N62R	S7	N7YC				

BOSCH TO CHAMPION

BOSCH	CHAMPION	BOSCH	CHAMPION	BOSCH	CHAMPION	BOSCH	CHAMPION	BOSCH	CHAMPION
D6BC	F7YC	H6DC	S279YC	M10AC	D16	W6DP	N7GY	WO8AS	L2G
D6BP	F7YC	H7DC	S281YC	UR2AS	Z9Y	W6DTC	N7BYC	WO8CS	N54R
D7AC	F10C	H7DC	S9YC	UR3AS	Z9Y	W7AC	L86C	WR4CC	RN3C
D7BC	F7YC	H7DCO	S9YCC	UR4AS	Z9Y	W7AP	L6G	WR4CP	RN3G
D8AC	F10C	H7DP	RBN9GY	W07AS	L84R	W7BC	L87YC	WR5AC	RL82C
D8BC	F9YC	H8BC	V9YC	W07CS	N82G	W7CC	N4C	WR5DC	RN6YC
D9BC	F11YC	H8DC	S10YCC	W10AC	L86C	W7CCO	N288	WR6DC	RN7YC
D10BC	F11YC	H8DCO	S10YCC	W10DC	N12YC	W7CP	N4G	WR6DCX	RN7YC4
DR6BC	RF7YC	H9BC	V12YC	W10FC	J12YC	W7DC	N281YC	WR6FC	RJ6C
DR8BC	RF9YC	H9DC	S12YC	W2AC	L77JC	W7DC	N9YC	WR7AC	RL86C
DR9BC	RF11YC	H10BC	V12YC	W2AS	L2G	W7DCO	N9YCX	WR7BC	RL82YC
DR10BC	RF11YC	HR5DC	RS6YC	W2CC	N2C	W7DCX	N9YC4	WR7CC	RN4C
F5DC	C6YC	HR6BC	RV9YC	W2CS	N84G	W7DO	N79Y	WR7CP	RN4C
F5DTC	C6BYC	HR6DC	RS6YC	W2CS	N82G	W7DP	RN9YC	WR7DC	RN9YC
F6DC	C7YC	HR7DC	RS9YC	W3AC	L78C	W7DTC	N9BYC	WR7DCX	RN9YC4
F6DC	C7YCX	HR8AC	RV8C	W3AS	L2G	W7EC	J6C	WR8CC	RN8
F6DP	C7GY	HR8ACY	RV8C4	W3CC	N2C	W7FC	J12YC	WR8DC	RN11YC
F6DTC	C6BYC	HR8AP	RV12C	W3CP	N2G	W8AC	L86C	WR8DCX	RN11YC4
F7DC	C9YC	HR8BC	RV12YC	W3CS	N84G	W8AP	L82C	WR8DP	RN9YC
F7DC	C9YCX	HR8BCY	RV12YC6	W4AC	L82C	W8BC	L92YC	WR8EC	RJ8C
F7DC	C281YC	HR8DCX	RS12YC6	W4AP	L4G	W8CC	N5C	WR8FC	RJ12YC
F7DP	C9GY	HR9AC	RV12C	W4AS	L60R	W8CP	N5C	WR9DC	RN11YC
F8DC	C9YC	HR9ACY	RV12C6	W4CC	N3C	W8DC	N11YC	WR9EC	RJ11
F8LCR	C9YCX	HR9BC	RV12YC	W4CP	N3G	W8DCO	N9YCX	WR9ECO	RJ17LM
FR5DC	RC6YC	HR9BCY	RV12YC6	W5AC	L82C	W8DCX	N11YC4	WR9HC	RN13L
FR6DC	RC7YC	HR9BCZ	RV12YC8	W5AP	L6G	W8DTC	N9BYC	WR9LS	RN12YC
FR6DTC	RC7BYC	HR9DC	RS12YC	W5BC	L82YC	W8EC	J8C	WR10FC	RJ12YC
FR7DC	RC9YC	HR9DCX	RS12YC6	W5BP	L6G	W8FC	J12YC	WR10FCY	RJ18YC6
FR7DCX	RC9YC4	HR10AC	RV12C	W5CC	N3C	W8LCR	N9YCX	WS5E	CJ4
FR8DC	RC12YC	HR10ACY	RV12C6	W5CS	N3G	W9AC	L86C	WS5F	CJ6Y
FR8DCX	RC12YC4	HR10BC	RV15YC	W5DC	N6YC	W9ACO	L86C	WS7E	CJ6
FR8HP	RC12LYC	HR10BCX	RV15YC4	W5DCO	N6YCX	W9CC	N8	WS7F	CJ7Y
FR9HC	RFN14LY	HR10BCY	RV15YC6	W5DP	N6GY	W9DC	N12YC	WS8E	CJ8
FR10DCX	RC12LYC	HR10BCZ	RV15YC8	W5DTC	N6BYC	W9DCX	N12YC4	WS8F	CJ7Y
H2CS	BN60	HS5E	DJ6J	W5EC	J4C	W9EC	J8C	WSR6F	RCJ7Y
H3CS	BN2	HS8E	DJ8J	W6BC	L82YC	W9ECO	J17LM	WSR8F	RCJ7Y
H5DC	S6YC	M4AC	K7	W6BP	L6G	W9LC	N9YCX	X4CS	A57G
H5DC	S379YC	M5AC	K8	W6DC	N7YC	WO6AS	L84R	X5DC	A6YC
H6BC	V9YC	M7AC	UK10	W6DCO	N7YCX	WO6CS	N52R	XR2AS	P7
H6DC	S7YC	M8AC	K13	W6DCX	N7YC4	WO7CS	N52R	XR3CPO	A59G

EYQUEM TO CHAMPION

EYQUEM	CHAMPION	EYQUEM	CHAMPION	EYQUEM	CHAMPION	EYQUEM	CHAMPION	EYQUEM	CHAMPION
C52LS	N281YC	C82LS	N279YC	80LB	N3C	750LS	N79Y	805L	N3C
C52LJS	S281YC	FC52LS	C9YCX	80LS	N7YC	753LJS	S7YC	805LP	N3G
C62LJS	S281YC	FC58LS	C7YC	80LW	N3C	755	L82C	850	L82C
C62LS	N9YC	FC62LS	C7YCX	550S	L92YC	755L	N4C	1000L	N2C
C72LJS	S279YC	FC72LS	C7YC	580LS	N9YC	755LS	N7YC	883LJP	BN60
C82LJS	S6YC	60LS	N9YC	600LS	N9YC	755SX	L82YC	755X	L82C
C82LJS	S379YC	75LB	N3C	705L	N5C	755LJS	S9YC		
C82LS	N6YC	75LS	N9YC	707LSX	N9YC	800LS	N6YC		

LODGE TO CHAMPION

LODGE	CHAMPION	LODGE	CHAMPION	LODGE	CHAMPION	LODGE	CHAMPION	LODGE	CHAMPION
2HL	N6YC	2HLN	N3C	3HLN	N2C	25HL-E	N6YC	25HLNY	N7YC
2HL-E	N4C	2HLNY	N7YC	3HLNY	N6YC	25HL-D	RC6YC	L6Y	N9YC
2HL-E	N9YC	3HN	L82C	25HL	N6YC	25HLD	C7BYC	RL47	N60R

MARELLI TO CHAMPION

MARELLI	CHAMPION	MARELLI	CHAMPION	MARELLI	CHAMPION	MARELLI	CHAMPION	MARELLI	CHAMPION
7LCR	RC9YC	CW78LPR	RN7YC	CW7NPR	RL82YC	F7LC	N9YC	FC7N	L82C
8LCR	RC7YC	CW78LPS	N7YC	CW89LP	N6YC	F7LCR	RN9YC	T7LC	S281YC
CW4CJ	J8C	CW7CJ	J4C	CW8LPR	RN7YC	F7NC	L82YC	T7LCR	RS9YC
CW5N	L86C	CW7LP	N9YC	CW8NP	L82YC	F7NCR	RL82YC	T8LC	S279YC
CW6CJ	J6C	CW7LPR	RN9YC	DW4CJ	J17LM	F8CSR	RC7BYC	TW78LP	S7YC
CW6NP	L87YC	CW7LPS	N9YCX	DW4JCR	RJ17LM	F8LC	N7YC	TW7LP	S9YC
CW78LP	N7YC	CW7NP	L82YC	F6NC	L87YC	F8LCR	RN7YC		

MARCHAL TO CHAMPION

MARCHAL	CHAMPION	MARCHAL	CHAMPION	MARCHAL	CHAMPION	MARCHAL	CHAMPION	MARCHAL	CHAMPION
34CM	J4C	36	L86C	6H	N6YC	C7H	S7YC	M4T	J4C
34HS	N3C	36CM	J8C	6N	L86C	GT34/2H	N7YC	M5T	J6C
34S	L82C	4N	L82C	7H	N6YC	GT34/5HA	N9YC	M6T	J8C
35/1	L87YC	5H	N3C	8H	N7YC	GT34H	N6YC	SCGT34/5H	S6YC
35CM	J6C	5N	L82YC	9H	N9YC	GT35H	N9YC	SCGT35H	S9YC

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CHAMPION

MOTORCRAFT TO CHAMPION

MOTORCRAFT	CHAMPION	MOTORCRAFT	CHAMPION	MOTORCRAFT	CHAMPION	MOTORCRAFT	CHAMPION	MOTORCRAFT	CHAMPION
A1	J4C	AE8	L86C	AG32C	N9YC	AGR32C	RN11YC	BF22C	F7YC
A11	UJ12	AE901	L77JC	AG3C	N5C	AGR32C	RN9YC	BF22CX	F7YC
A2	J4C	AER22	RL82C	AG42	N12YC	AGR42C	RN12YC	BF22X	F7YC
A22	J12YC	AER4	RL86C	AG5	N8	AGR5	RN8	BF32CX	F9YC
A3	J6C	AER6	RL86C	AG7	N8	AGRF12C	S7YC	BF32X	F9YC
A32	J12YC	AF1	V4C	AG701	N2C	AGRF22	RS9YC	BF42	RF11YC
A4	J8C	AF12	V9YC	AG901C	N3C	AGRF22C	RS9YC	BF82	F11YC
A42	J12YC	AF2	V4C	AG902	N6YC	AGRF32	RS11YC	BF92	F11YC
A5	J8C	AF22	V9YC	AGF12	S7YC	AGRF52	RS12YC	BRF22C	RF7YC
A52	J14YC	AF3	RV8C	AGF12C	S7YC	AL52	H14Y	BRF22CX	RF7YC
A7	J8C	AF32	V12YC	AGF22	S9YC	AL7	H10	BRF3	F7YC
A82	J18YC	AF42	V12YC	AGF22C	S9YC	AL8	H10	BRF32C	RF9YC
A9	J11	AF901	V4C	AGP12C	C7YC	AR32	RJ12YC	BRF32X	RF9YC
AE1C	L78C	AG12C	N7YC	AGP22C	C9YC	AR42	RJ12YC	BRF42	F11YC
AE22C	L82YC	AG12	N7YC	AGPR12C	RC7YC	AR5	RJ8C	BRF42X	RF11YC
AE2C	L82C	AG1C	N3C	AGPR22C	RC9YC	ARF22	RV9YC	BRF82	RF11YC
AE32C	L82YC	AG22	N9YC	AGPR901C	C59C	ARF32	RV12YC	HE2	P7
AE3C	L82C	AG22C	N9YC	AGPR902C	RC6YC	ARF4	RV8C	HG2	RA6YC
AE4	L86C	AG25	N9YC	AGR12	RN7YC	ARF42	RV12YC	PE2	Z9Y
AE42	L92YC	AG252C	N9YCX	AGR12C	RN7YC	ARF52	RV15YC	PE3	Z9Y
AE6	L86C	AG2C	N4C	AGR22C	RN9YC	ARF8	RV12YC		
AE62	L92YC	AG32C	N11YC	AGR2C	RN4C	B3W	UK10		

NGK TO CHAMPION

NGK	CHAMPION	NGK	CHAMPION	NGK	CHAMPION	NGK	CHAMPION	NGK	CHAMPION
A-6	K13	B10EG	N82	BP5S	J12YC	BPR5FS	RV12YC	BUHW	L76V
A-7	D14	B10ES	N1	BP6EA	N9YCC	BPR5FS-11	RV12YC4	BUZ8H	QL78V
A-8	K7	B10EV	N82G	BP6EA-11	N9YCC	BPR5S	RJ12YC	BUZHW	QL76V
A6FS	F10C	B10H	L77JC	BP6EFS	S9YC	BPR6EFS	RS9YC	BUZHW-Z	L76V
A8F	F82	B10HV	L55G	BP6EFS	S279YC	BPR6EFS-13	RS9YC4	BUZNW-2	QL76V
AP5FS	F11YC	BCP5ES	RC12YC	BP6EFS	S281YC	BPR6ES	RN9YC	C-6M	Y82
AP6FS	F7YC	BCP6ES	C6BYC	BP6EFS-13	S9YC4	BPR6ES-11	RN9YC4	C6HSA	Z9Y
AP7FS	F7YC	BCP6ES	C281YC	BP6ES	N9YC	BPR6EV	RN9YC	C7HV	Z9Y
APR5FS	RF11YC	BCP6EV	C9GY	BP6ES	N281YC	BPR6EY	RN9YC	C8E	G2
APR5FS-11	RF11YC4	BCP7ES	C7YC	BP6ES-11	N9YC4	BPR6EY-11	RN9YC4	C8E	G61
APR6FS	RF7YC	BCP7ET	C6BYC	BP6ET	N7BYC	BPR6FS	RV9YC	C8E	G63
B2	J11J	BCP7EV	C7GY	BP6ET	N9BYC	BPR6FS-15	RV9YC6	C8HSA	Z9Y
B2LM	J17LM	BCP8ES	C59C	BP6EV	N8GY	BPR6HS	RL82YC	C9E	G1
B4	J8C	BCPR4ES	RC12YC	BP6EY	N9YC	BPR6S	RJ12YC	C9E	G55
B4ES	N8	BCPR5ES	RC12YC	BP6EY-11	N9YC4	BPR7ES	RN7YC	CM-6	Y82
B5EB	N8	BCPR5ES-11	RC12YC4	BP6FS	RV9YC	BPR7ES-11	RN7YC4	D6EA	A8YC
B5ES	N288	BCPR5EY	RC12YC	BP6HS	L87YC	BPR7EY	RN7YC	D6HA	P8Y
B5EV	N5C	BCPR5EY-11	RC12YC4	BP6HV	L82C	BPR7EY-11	RN7YC4	D7EA	A8YC
B5HS	L86C	BCPR6ES	RC9YC	BP6S	J12YC	BPR7HS	RL82YC	D7EV	A6G
B6EB	N5C	BCPR6ES-11	RC9YC4	BP7EFS	S7YC	BPR8ES	RN6YC	D8EA	A6YC
B6EB-L	N5C	BCPR6EY	RC9YC	BP7EFS	S379YC	BR4ES	RN8	D8EV	A6G
B6ES	N288	BCPR6EY-11	RC9YC4	BP7ES	N79Y	BR4HS	RL86C	D8HA	P7
B6ET	N180B	BCPR7ES	RC7YC	BP7ES	N7YC	BR5EB	RN8	D9EA	A5YC
B6EV	N4C	BCPR7ES-11	RC7YC4	BP7ES	N279YC	BR5ES	RN5C	D9EV	A59G
B6FS	RV8C	BCPR7ET	RC7YC	BP7ES-11	N7YC4	BR5FS	RV12C	D10EA	A5YC
B6HS	L86C	BCPR7EY	RC7YC	BP7EV	N7GY	BR5FS-15	RV12C6	DP6EA-9	A8YC
B6HV	L82C	BCPR7EY-11	RC7YC4	BP7EY	N7YC	BR5HS	RL86C	DP7EA-9	A8YC
B6S	RJ8C	BCPR9ES-11	RC6YC	BP7EY-11	N7YC4	BR6EB	RN5C	DP8EA-9	RA6YC
B7EB	N4C	BM4A	CJ14	BP7FS	V9YC	BR6ES	RN5C	DP9EA-9	RA5YC
B7EM	N180B	BM6	CJ8	BP7HS	L82YC	BR6FS	RV8C	DPR6EA-9	RA8YC
B7ES	N4C	BM6A	CJ8	BP7HV	L6G	BR6FS-15	RV8C6	DPR7EA-9	RA8YC
B7ET	N180B	BM7	CJ6	BP8ES	N6YC	BR6HS	RL86C	DPR8EA-9	RA6YC
B7EV	N4C	BM7A	CJ6	BP8EV	N6GY	BR6S	RJ8C	DPR9EA-9	RA5YC
B7FS	V4C	BMR4A	RCJ8	BP9ES	N4YC	BR7EB	RN4C	DR4HS	P8Y
B7HS	L82C	BMR6A	RCJ8	BPM6A	CJ7Y	BR7EM	RN180B	DR5HS	P8Y
B7HV	L6G	BMR6F	RDJ8J	BPM6F	DJ7Y	BR7ES	RN4C	DR7ES	RA8YC
B7S	J6C	BMR6F	RDJ7J	BPM7A	CJ7Y	BR7ET	RN180B	DR8ES	RA6YC
B8EG	N87	BMR7A	RCJ6	BPM7F	RDJ7Y	BR7HS	RL82C	DR8ES-L	RA6YC
B8EM	N178B	BMR7F	RDJ6J	BPMR6A	RCJ7Y	BR8EM	RN178B	J9A	A59G
B8ES	N3C	BP4ES	N12YC	BPMR6F	RDJ7Y	BR8ES	RN3C	J10A	A59G
B8ET	N180B	BP4ES-11	N12YC4	BPMR7A	RCJ7Y	BR8ET	RN180B	JR9A	A59G
B8EV	N3G	BP4EY	N12YC	BPR4ES	RN12YC	BR8EV	RN3G	JR10A	A59G
B8HS	L78C	BP4EY-11	N12YC4	BPR4ES-11	RN12YC4	BR8HS	RL78C	SR 5	RE10LC
B8HV	L4G	BP4HS	L92YC	BPR4ES-L11	RN12YC4	BR9ES	RN2C	ZFR5A-11	RC7YC
B8S	J4C	BP5EFS	S12YC	BPR4EY-11	RN12YC4	BR9EV	RN2G	ZFR6A	RC9YC
B9EG	N84	BP5EFS-13	S12YC4	BPR4FS	RV15YC	BR9HS	RL77JC	ZGR5C	RN13L
B9ES	N2C	BP5ES	N11YC	BPR4FS-11	RV15YC6	BR9HS-10	RL77JC4	ZGR5C	RN14LY
B9EV	N2G	BP5ES-11	N11YC4	BPR5EFS	RS12YC	BU8H	L78V		
B9HS	L77JC	BP5EY-11	N11YC4	BPR5ES	RN11YC	BU10H	L78V		
B9HS-10	L77JC4	BP5FS	S12YC	BPR5ES-11	RN11YC4	BUE	N19V		
B9HV	L3G	BP5FS	V12YC	BPR5EY	RN11YC	BUEW	N19V		
B9S	J4C	BP5HS	L92YC	BPR5EY-11	RN11YC4	BUH	L20V		

CHAMPION

WARNING
This cross reference list is to be used for general assistance only
Spark plug manufacturers use different materials and construction methods
This can lead to differences in heat range for example
To be sure of the correct spark plug recommendation it is essential to use the application sections of this catalogue, or consult the car manufacturer's manual

CROSS REFERENCE

NIPPON DENSO TO CHAMPION

NIPPON DENSO	CHAMPION	NIPPON DENSO	CHAMPION	NIPPON DENSO	CHAMPION	NIPPON DENSO	CHAMPION	NIPPON DENSO	CHAMPION
J16BR-U	RN13L	T20EP-U	S9YC	W16ES-U	N5C	W22EP-U	N7YC	W27ES-V	N86G
L14-U	D16	T20EPR-U	RS9YC	W16ESR-L	RN11YC	W22EP-ZU	N7GY	W27ES-ZU	N2G
M14	D14	T20EPR-U15	RS9YC	W16ESR-L11	RN11YC4	W22EPR-U	RN7YC	W27ESR-U	RN2C
M17	K13	T20P-U	V9YC	W16ESR-U	RN5C	W22EPR-U11	RN7YC4	W27FS-U	L77JC
M22	D9	T20PR-U	RV9YC	W16EX-U	N11YC	W22ES-L	N7YC	W27FS-U10	L77JC4
M24S	K7	T20R-U	RV12C6	W16EX-U11	N11YC4	W22ES-U	N4C	W27FS-ZU	L2G
MA16PR-U	RF9YC	T20R-U	RV12C	W16EXR-U	RN11YC	W22ES-U	N3C	W27S-U	J4C
MA20P-U	F7YC	T22EP-U	S6YC	W16EXR-U11	RN11YC4	W22ES-ZU	N4G	W29EN	N57R
MA20PR-U	RF7YC	U16FS-U	Z9Y	W16FP-U	L92YC	W22ESR-L	RN7YC	W29ES-V	N84G
MA20R-U	RF10C	U20FS-U	Z9Y	W16FS-U	L86C	W22ESR-L11	RN7YC4	W31EN	N54R
MA9P-U	F11YC	U20FS-GU	Z9Y	W16FSR	RL86C	W22ESR-U	RN4C	W31ES-U	N1
P16R	RN12YC	U24FS-ZU	Z7G	W16PR-U	RJ12YC	W22EX-U	N7YC	W34EN	N52R
PQ16R	RC12YC	W14-U	J8C	W20EP-U	N9YC	W22EXR-U	RN7YC	W9-U	RJ12
Q16PR-U	RC12YC	W14E	RN8	W20EP-ZU	N8GY	W22EXR-U11	RN7YC4	W9FP	L95YC
Q16PR-U11	RC12YC4	W14EP-U	N12YC	W20EPR-U	RN9YC	W22FPR-U	RL82YC	W9P-U	J12YC
Q16R-U	RC12YC	W14EPR-U	RN12YC	W20EPR-U10	RN9YC4	W22FR-U	L82YC	W9PR-U	RJ12YC
Q16R-U11	RC12YC4	W14EX-U	N12YC	W20EPR-U11	RN9YC4	W22FS-U	L82C	W9PR-U15	RJ15YC6
Q20P-U	C9YC	W14EX-U11	N12YC4	W20ES-L	N9YC	W22FS-ZU	L4G	X16FS-U	P10Y
Q20PR-U	RC9YC	W14EX-U13	N12YC6	W20ES-U	N5C	W22FSR-U	RL82C	X20ES-U	A8YC
Q20PR-U11	RC9YC4	W14EXR-U	RN12YC	W20ESR-L	RN9YC	W22MP-U	CJ6Y	X20FS-U	P8Y
Q22P-U	C7YC	W14EXR-U11	RN12YC4	W20ESR-L11	RN9YC4	W22S	J4C	X22ES-U	A8YC
Q22PR-U	RC7YC	W14EXR-U15	RN12YC6	W20ESR-U	RN5C	W22S-U	J4C	X24EPR-U9	RA6YC
Q22PR-ZU	C7GY	W14F-U	L86C	W20EX-U	N9YC	W24EP-U	N6YC	X24ES-U	A6YC
QJ16AR-U	RC12YC	W14FP-UL	L92YC	W20EX-ZU	N8GY	W24EPR-U	RN6YC	X24ES-ZU	A6G
QJ16HR-U	RFN14LY	W14FR-U	RL86C	W20EXR-U	RN9YC	W24EPR-ZU	N6GY	X24ESR-U	RA6YC
SF-10	UL77V	W14M-U	CJ14	W20EXR-U11	RN9YC4	W24ES-V	N87G	X24FS-U	P7
SF-50	L78V	W14M-U10	CJ14	W20FP-U	L87YC	W24ES-ZU	N3G	X27ES-U	A6YC
SF51	L78V	W14MR-U	RCJ8	W20FPR-U	RL82YC	W24ESR-U	RN3C	X27ES-ZU	A6G
T14PR-U	RV15YC	W16EP-U	N11YC	W20M-U	CJ8	W24FS-U	L78C	X27ESR-U	RA6YC
T14PR-U15	RV15YC4	W16EP-U10	N11YC4	W20M-US	CJ8	W24S-U	J4C	X29ES-ZU	A6G
T16EPR-U	RS12YC	W16EP-U11	N11YC4	W20MP-U	CJ8Y	W24S-U	J4C	X31ES-U	A5YC
T16EPR-U15	RS12YC6	W16EPR-U	RN11YC	W20MR-U	CJ8	W25EA	N178B	X31ES-ZU	A57G
T16PR-U	RV12YC	W16EPR-U10	RN11YC4	W20S-U	J6C	W25EAR	RN178B		
T16PR-U15	RV12YC6	W16EPR-U11	RN11YC4	W20SR-U	RJ6C	W25EN	N62R		
T16R-U	RV8C	W16ES-L	N11YC	W22EA	N180B	W27EN	N60R		
T16R-U15	RV8C6	W16ES-L11	N11YC4	W22EAR	RN180B	W27ES-U	N2C		

SURELIFE TO CHAMPION

SURLIFE	CHAMPION	SURLIFE	CHAMPION	SURLIFE	CHAMPION	SURLIFE	CHAMPION	SURLIFE	CHAMPION
GSP4154	F7YC	GSP4362	N9YC	GSP4456	RL82YC	GSP4562	C9YC	GSP4664	RV9YC
GSP4256	L82C	GSP4366	L87YC	GSP4462	RN9YC	GSP4563	S9YC	GSP4763	RS5C
GSP4266	L86C	GSP4372	N11YC	GSP4472	RN11YC	GSP4573	S12YC		
GSP4342	N6YC	GSP4376	L92YC	GSP4543	S6YC	GSP4652	RC7YC		
GSP4352	N7YC	GSP4382	N12YC	GSP4552	C7YC	GSP4662	RC9YC		
GSP4356	L82YC	GSP4452	RN7YC	GSP4553	S7YC	GSP4663	RS9YC		

UNIPART TO CHAMPION

UNIPART	CHAMPION	UNIPART	CHAMPION	UNIPART	CHAMPION	UNIPART	CHAMPION	UNIPART	CHAMPION
GSP30	J8C	GSP171	N7YC	GSP281	RN7YC	GSP540	L86C	GSP981	F7YC
GSP131	N12YC	GSP181	N7YC	GSP361	S9YC	GSP541	L87YC	GSP684	RC7YC
GSP141	N11YC	GSP191	N6YC	GSP381	S7YC	GSP571	L82YC	GSP685	C7YC
GSP151	N9YC	GSP244	RN11YC	GSP461	RS9YC	GSP634	RC12YC	GSP761	V9YC
GSP160	N5C	GSP263	RN9YC	GSP466	RS5C	GSP664	RC9YC	GSP881	RV9YC
GSP163	N9YC	GSP264	RN9YC	GSP531	L92YC	GSP665	C9YC		

FIAT TO CHAMPION

FIAT	CHAMPION	FIAT	CHAMPION	FIAT	CHAMPION	FIAT	CHAMPION	FIAT	CHAMPION
7FYS	N7YC	7GBYSR	RC7YC	9FYSR	RN9YC	82CYS	L82YC		
7FYSR	RN7YC	9FYS	N9YC	9GYSR	RC9YC				

OPEL TO CHAMPION

OPEL	CHAMPION	OPEL	CHAMPION	OPEL	CHAMPION	OPEL	CHAMPION	OPEL	CHAMPION
1214700	L82YC	1214702	RN7YC	1214801	RL82YC	1214803	RN7YC4		
1214701	RL82YC	1214800	L82YC	1214802	RN7YC				

V.A.G. TO CHAMPION

V.A.G.	CHAMPION	V.A.G.	CHAMPION	V.A.G.	CHAMPION	V.A.G.	CHAMPION	V.A.G.	CHAMPION
101 000 000 AA	N6YCX	101 000 000 AB	N7YCX	101 000 000 AC	N9YCX				