

Please note that not all spark plug types are available from the UK distribution network

NGK RIDIUN

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RACING S

2016/2017

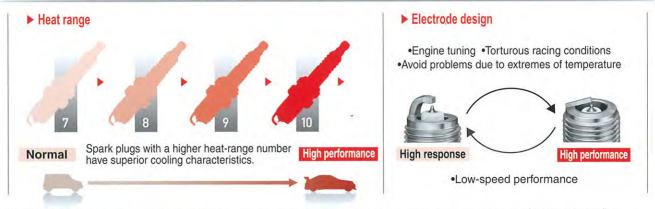
RKPLUGS

NGK

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Choosing a racing plug

Choose the right spark plug for your engine based on heat range and electrode design, engine tuning, and racing conditions.



Racing plugs for both two- and four-wheel vehicles have been developed and designed for use in engines that have been finetuned to achieve maximum power under specific racing conditions. Racing plugs differ from standard plugs, both in appearance and performance, and often sacrifice plug life, and efficiency at low-speeds for optimum performance and durability under torturous racing conditions. Racing plugs do not improve output.

2 What to look for when choosing a racing plug

Shell design – To determine what kind of shell design fits in your engine, check the serial number of

regulation plugs or the plugs you are currently using to verify the thread diameter, pitch, thread length and shell seat,

Heat range – It's important to choose a racing plug with a heat range that keeps the electrode at an optimum temperature under even the most torturous racing conditions. And remember: A higher heat-range number does not improve engine performance, it increases the plug's ability to dissipate heatFiring End design – Refer to the section below on electrode design to determine which type is best for your needs.

Resistors – Due to advances in ignition-system technology, there is little if any difference in performance between plugs with resistors and those without. However there are still some variations of some models that require plugs with resistors to avoid engine trouble.

3 Choosing a firing end design

Although a good rule of thumb is that the more an electrode projects into the cylinder, the better ignition it provides, it's also true that longer projections are more susceptible to the wear and tear of extreme temperatures. High-power, high-performance engines, of course, not only run hotter, they also vibrate more, which is why we recommend choosing a firinig end design that reduces exposure of the electrode and insulator as much as possible.

CAUTION

Projected type



Quite similar to a standard spark plug electrode, these plugs give good overall performance in lightly tuned and naturally aspirated engines, as well as good performance in the low to medium torque range in turbo engines.

NOTICE

Angled ground strap type



These provide superior performance in turbocharged engines with power boosts of 50% or more. The short ground electrode is also highly durable against mechanical shock.

Semi-surface discharge



In a sense, this is the ultimate plug configuration. Nearly all insulator cracking and electrode melting can be prevented with this type. Nevertheless, service life and low-speed performance may suffer slightly.

Please choose racing plugs with the appropriate heat range and electrode design according to the tune-up level of the engine and the running conditions of the vehicle. NGK is not responsible for an engine or spark plugs troubles caused by a failure to choose the appropriate spark plug for your engine.

02

CAUTION

Spark Plug Maintenance

How to correctly install spark plugs

You must take great care when installing spark plugs. In particular, you have to watch the torque. If you use too much or too little torque when installing spark plugs you can cause damage to the spark plugs and the engine, so be sure you abide by the following.

Be sure to use the correct spark plug wrench.

Some engines have narrow spark plug holes thereby preventing the spark plugs from being tightened correctly with a plug wrench that does not perfectly fit the hexagonal portion of the plug. So, please use the appropriate spark plug wrench for your engine.

Be sure to tighten the spark plug to the correct torque.

Screw in the spark plug and then use a torque wrench to tighten the spark plug to the standard torque noted in the chart on the right. If you do not have access to a torque wrench screw in the plug with your fingertips and then tighten to the rotation angle noted below (corresponds to the tightening torque in the chart on the right) using a spark plug wrench once the spark plug comes in contact with the spark plug tube gasket mount.

CAUTION

If any lubricants, such as grease, or seizure prevention agents are used on the threads there is a danger of over tightening the spark plug past the standard torque. Therefore, do not use lubricants or seizure prevention agents on these parts.

Tightening angles

Thread size	New gasket	Uused gasket
ø 14mm	$\frac{1}{2} \sim \frac{2}{3}$ of a turn(180°~240°)	$\frac{1}{12}$ of a turn(30°)
¢12mm (except▼)	$\frac{1}{2}$ of a turn(180°)	$\frac{1}{12}$ of a turn(30°)
▼R2556B-○ R2558A-○	$\frac{1}{4}$ of a turn(90°)	$\frac{1}{8}$ of a turn(45°)

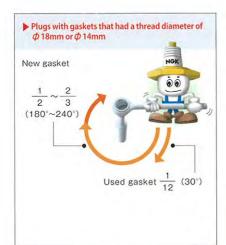
Plug thread size	Tightening torque
¢18mm	35~40N·m(3.5~4.0kgm)
_¢14mm	25~30N·m(2.5~3.0kgm)
ø12mm	15~20N·m(1.5~2.0kgm)
ø10mm	10~12N·m(1.0~1.2kgm)
ø8mm	8~10N·m(0.8~1.0kgm)

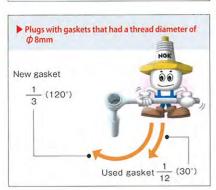
Conical seat type (without gasket)

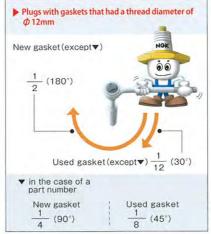
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Tightening torque	10~20N·m(1.0~2.0kgm)

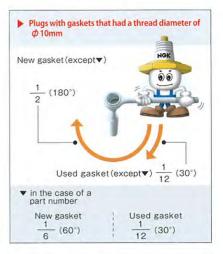
Thread size	New gasket	Uused gasket
¢10mm (except▼)	$\frac{1}{2}$ of a turn(180°)	$\frac{1}{12}$ of a turn(30°)
R0409B-○ ▼R0451B-○ R0465B-○	$\frac{1}{6}$ of a turn(60°)	$\frac{1}{12}$ of a turn(30°)
ø 8mm	$\frac{1}{3}$ of a turn(120°)	$\frac{1}{12}$ of a turn(30°)
Copper gasket type	$\frac{1}{12}$ of a turn(30°)	$\frac{1}{24}$ of a turn(15°)

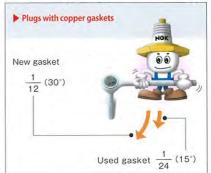












and	R4304A-		R6918B-	
MGK	Spark plug typeBPTerminal type <u>A</u> Electrode material CenterGo	io -E Id Palladium :kel	Heat range 7 8 9 Spark plug type B-E Terminal type Image: Center Ground Platinum Ground Nickel	
No. of the second se	Spark plug typeB-ETerminal typeImage: Content plugElectrode material CenterIric	9 10 Ium tinum	R6712- Heat range 9 10 Spark plug type B-E Terminal type A Electrode material Center Ground —	E.
▶ φ14	×22mm(20.8Hex) Short R6179C- PA		P7274P_()	
TOK TO	Heat range105Spark plug type—Terminal type1Electrode material CenterPla	tinum tinum	R7376B- Heat range 9 10 Spark plug type Terminal type Electrode material Center Ground Platinum	
▶ φ14	×22mm(16.0Hex)	i T		
	^{Short} R7282A- ○ ^{*1}	CARO CARO		
	Heat range 10 105 Spark plug type — Terminal type E	11		

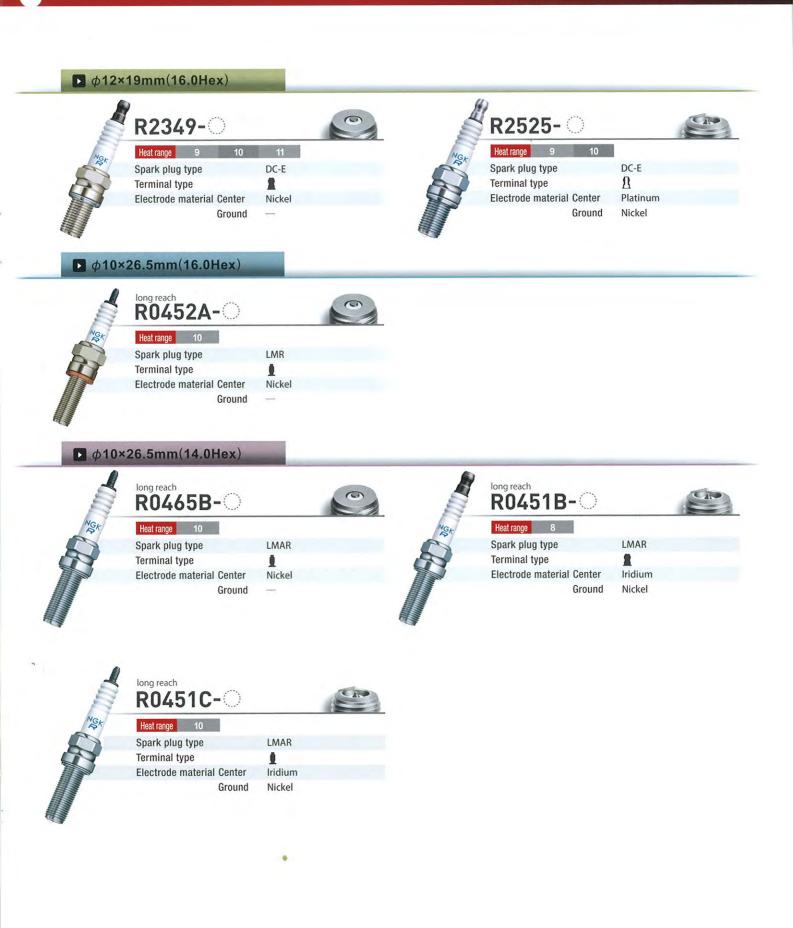
pprox 2) The length from gasket to terminal of ISO/JIS type spark plugs is 50.5mm which is 2.5mm shorter than old JIS type spark plugs.

** 3) Resistor spark plugs are recommended for cars originally equipped with resistor spark plugs. When non resistor spark plugs are installed in such cars, there is some possibility that the electric devices in the car, such as the audio system or the engine managemant system, would be affected by noise.
** 4) Heat range number enters

NOTICE) 📲 = Solid post terminal 👖 = Thread terminal with nut 🖢 = Thread terminal

	Short R7282- ○*1	C.R.		R7282M- ○*1	
	Heat range 9 10	105 11		Heat range 11 115	
No	Spark plug type	-	NGK	Spark plug type	-
NGK .	Terminal type Electrode material Center	1ridium	5	Terminal type Electrode material Center	Iridium
1	Ground	Platinum		Ground	Platinum
mugan	R7433- Heat range 8 9	10	eo.smm	R7434- Heat range 8 9	10
	Spark plug type	BK-E(ISO/JIS) *2	(Solo	Spark plug type	BK-E(ISO∕JIS) [∞] 2
1	Terminal type	1	-07	Terminal type	
	Electrode material Center Ground	Iridium Nickel		Electrode material Center Ground	lridium Platinum
The state of the s	R6601- Heat range 8 9 Spark plug type Terminal type Electrode material Center Ground	10 11 BK-E (ISO / JIS) ³ Nickel	Sa Onin	R7435- Heat range 8 9 Spark plug type Terminal type Electrode material Center Ground	10 BCP-E (old JIS)
muo se oum	R7436- Heat range 8 9 Spark plug type	10 BC-E (old JIS)	23. Onm	R6690- Heat range 9 10 Spark plug type	11 BC-E (old JIS)
	Terminal type	2		Terminal type	2

	R7437- 〇	E.		long reach R7438-	Caro
NGL	Heat range 8 9	10	NGK	Heat range 8 9	10
C C C	Spark plug type	LFR		Spark plug type	LFR
	Terminal type	1		Terminal type	2
	Electrode material Center Ground	Iridium Nickel		Electrode material Center Ground	Iridium Platinum
	a ound				
Φ14	×12.7mm(20.8Hex)				
1	R5525-〇	- Alto			
S	Heat range 8 9	10 11			
NGK	Spark plug type	B-H			
5	Terminal type	Ω			
1	Electrode material Center Ground	Gold Palladium Nickel			
	ciound	MCKCI			
▶ ¢14	×21.5mm(20.8Hex)				
	R6725-〇		1	R7420- 〇	
S	K0/20-0	- MY	5		
Ngk	Heat range 9 10	105 11 115	RIDI	Heat range 9 10	105 11
	Spark plug type Terminal type	Rotary Engine RX-7		Spark plug type Terminal type	Rotary Engine RX-7
T	Electrode material Center	Platinum	IT	Electrode material Center	Iridium
	Ground	Platinum		Ground	Platinum
Φ14	x21mm(20.8Hex)		Φ14	×19mm(20.8Hex)	
R			A		673
a la	R7440A-OL		and	R7440B-OT	
RIDIU	Heat range 9 10	1	RIDIU	Heat range 10 11	
A	Spark plug type Terminal type	Rotary Engine RX-8 Lside	A	Spark plug type Terminal type	Rotary Engine RX-8 Tside
11	Electrode material Center	Iridium	41	Electrode material Center	Iridium
	Ground	Platinum		Ground	Platinum
Φ 12	2×26.5mm(16.0Hex)		D 012	×26.5mm(14.0Hex)	
6	0	•	R	long reach	
	R2556B-	C.A.S		R2558A-	CP
NGK	Heat range 8 9	10	MGK	Heat range 8 9	10
C	Spark plug type	LKR	2	Spark plug type	LKAR
	Terminal type	1	LT .	Terminal type Electrode material Center	Iridium
1	Electrode material Center	Iridium			



 ^{※ 3)} Resistor spark plugs are recommended for cars originally equipped with resistor spark plugs. When non resistor spark plugs are installed in such cars, there is some possibility that the electric devices in the car, such as the audio system or the engine managemant system, would be affected by noise.
※ 4) Heat range number enters

La	R0373A-〇	Ê		GAP1.4 R0045G-		0
Ste Cha	Heat range89Spark plug typeTerminal typeElectrode material CenterGround	10 11 C-E Iridium Platinum	NGK.	Heat range1011Spark plug typeTerminal typeElectrode material Center Ground	C-E 1 Nickel	
NGK	GAP1.1 RO04.5J- Heat range 9 10 Spark plug type Terminal type Electrode material Center Ground	11 C-E A Nickel	A A A A A A A A A A A A A A A A A A A	GAP1.1 ROO45Q- Heat range 10 11 Spark plug type Terminal type Electrode material Center Ground	C-E L Nickel	٢
▶ ¢10×	19mm(16.0Hex) Harf thr	ead				
ST.	RO409B- Heat range 8 9 Spark plug type Terminal type Electrode material Center Ground	10 C-EH Iridium Nickel	A A A A A A A A A A A A A A A A A A A	RO459A- Heat range 10 Spark plug type Terminal type Electrode material Center Ground	C-EH L Nickel	0
▶ ¢10×	412.7mm(16.0Hex)		Φ8×*	19mm(13.0Hex) Harf thre	ad	
NGK	R0161- Heat range 9 10 Spark plug type Terminal type Electrode material Center Ground	11 C-H A Nickel Nickel	A A A A A A A A A A A A A A A A A A A	R847- Heat range 10 11 Spark plug type Terminal type Electrode material Center Ground	E-EH L Nickel	٢

* 3) Resistor spark plugs are recommended for cars originally equipped with resistor spark plugs. When non resistor spark plugs are installed in such cars, there is some possibility that the electric devices in the car, such as the audio system or the engine managemant system, would be affected by noise.
* 4) Heat range number enters

NOTICE) \mathbf{n} = Solid post terminal \mathbf{n} = Thread terminal with nut \mathbf{n} = Thread terminal



Discontinued plug types

Old part number		New part number
R016-(),R017-()	-	R0373A-()
R216-(),R217-()	-	R2525-()
R2270-(),R2430-()	+	R2349-()
R5530-(_)	-	R5525-()
R5649-()	→	R6712-()
R6711-()	+	R6601-()
R5883-()	→	R6690-()
R4630A-(),R6385-()P	\rightarrow	R7376-()
R6120-()	+	R7282-()
R6120A-(_)	-	R7282A-()
R6120M-()	-	R7282M-()
R6179A-()	\rightarrow	R7282-()
R6255-(),R6255F-(),R6326-()	+	R7433-()

Old part number	- 3	New part number
R6205- (),R6241-()	→	R7433-() or R7434-()
R6206-(),R6242-()	+	R7434-()
R5400-(),R5400F-(),R6337-()	-	R7435-()
R5686-(_)	+	R7435-() or R7436-()
R5830-(),R5687-()	→	R7436-()
R7112-(),R7113-()	+	R7433-()
R7114-(),R7115-()	-	R7433-() or R7434-()
R7116-(),R7117-()	\rightarrow	R7434-()
R7118-(),R7119-()	-	R7434-()
R7232-(),R7233-()	-	R7435-()
R7234-(),R7235-()	+	R7435-()) or R7436-()
R7236-(),R7237-()	+	R7436-()
R7238-(),R7239-()	+	R7436-(_)

Red color indicates non resistor plugsHeat range number enters

Racing plug caps

A		Heat range number enters 🔅
Plug cap number(color)	Plugs and cables	
TRS1225-B (Blue) *for HONDA RACE	R7282-(),R7282A-(),R7282M-()	$oldsymbol{\phi}$ 8mm Cable

Motorcycles

Heat range number enters 🔅

Manufacturer	Model	Spark plug Number	Racing spark plug	other applicable plug number
manarotaroi	model	opent preg tretter	in opant plug	plug number

► HONDA

Road	CBR1000RR	IMR9E-9HES	R0409B-(),R0459A-()	
	CBR600RR	IMR9E-9HES	R0409B-①	p7
	CBR400RR	CR8EH-9	CROEHIX-9,R0409B-O	
	CBR250R	SIMR8A9	CROEIX,R0373A-O	p7
	NSR250R-SP/SE	BR9ECM	BROECMIX	
	NSR50	BR8ES	BROEIX,R7376-O	p3
Race	NSF250R	R0452A-10	R0452A-0,R0451C-0	рб
Motocross	CRF450R('09~)	SILMAR9A9S		рб
	CRF250R('10~)	R0451B-8	R0451B-〇	
	CRF250R('04~'09)	R0409B-8	R0409B-()	p7
	CRF150R/R II	CR8EH-9	CROEHIX-9,R0409B-O	p/
	CRF125F	CPR6EA-9	CPR6EAIX-9S	p7
	CRF50F	CR6HSA	CROHIX	p7
	CR125R	BR9EG	BROEIX,R7376-O	
	CR85R/R II	BR10EG	BROEIX,R7376-O	р3
	CR80R/R II	BR10EG	BROEIX,R7376-O	

► KAWASAKI

Road	Ninja ZX-10R		CR9EIA-9	R0373A-(),R0045Q-()	
	Ninja ZX-6R/RR		CR9E	R0373A,R0045Q	
	Ninja 400		CR9EIA-9	R0373A-(),R0045Q-()	p7
	Ninja 250		CR8E	CROEIX,R0373A-O	
	Ninja 250SL		MR8CI-8	CROEIX,R0373A-O	
Motocross	KX450F		CPR8EB-9		
	KX250F('11~)		CPR8EB-9	÷	
	KX250F('06~'11)		CR8E	CROEIX,R0373A-O	p7
	KX250('05~)		BR8ECMVX	BROECMIX	
	KX125('06~)		BR9ECMVX	BROECMIX	
	KX85/II		R6252K-105	R7376-0	22
	KX65		BR10EG	BROEIX,R7376-O	p3
	KLX450R	6	CPR8EB-9	-	
	KLX250		CR8E	CROEIX,R0373A-O	p7
	KLX125		CR7HSA	CROHIX	p7
	KLX110L		CR6HSA	CROHIX	p/

► SUZUKI

Road	GSX-R1000('07~)	CR9EIA-9	R0373A-(),R0045Q-()	.7
	GSX-R600('08~)	CR9EIA-9	R0373A-(),R0045Q-()	p7
Motocross	RM-Z450('07~)	DIMR8A10		
	RM-Z250('13~)	CR8EIB-10		
	RM-Z250('07~'13)	CR8EIA-10	-	100
	RM250('02~)	BR8EG	BROEIX,R7376-O	
	RM125('97~)	R6918B-8	R6918B-()	p3
	RM85/85L	BR10ES	BROEIX,R7376-O	

9

Heat range number enters ()

Manufacturer	Model	Spark plug Number	Racing spark plug IX spark plug	other applicable plug number
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► YAMAHA

Road	YZF-R1/R1M('09~)	LMAR9E-J	R0465B-0	p6
	YZF-R1('04~'08)	CR9EK	R0373A-①,R0045Q-①	
	YZF-R6('98~)	CR10EK	R0373A-(),R0045Q-()	p7
	YZF-R3/R25	CR9E	CROEIX,R0373A-O	
Motocross	YZ450F	CR8E	CROEIX,R0373A-O	p7
	YZ250F('14~)	LMAR8G	•	
	YZ250F(~'13)	CR8E	CRO EIX,R0373A-O	p7
	YZ250	BR8EG	BROEIX,R7376-O	p3
	YZ125	BR9EVX	BROEIX,R7376-O	
	YZ85/LW	BR10EG	BROEIX,R7376-O	
	WR250R/X	CR9EK	CROEIX,R0373A-O	p7

► APRILIA

Road	RSV4	CR9EKB	R0373A-0 %2,R0045Q-0 %2	n7
	RS4 125	CR9EB	CROEIX%2,R0373A-O %2	- p/

▶ BMW

Road	S1000RR	LMAR9D-J	R0465B-①※2	рб

DUCATI

Road	1199 Panigale S/R	MAR9A-J	-
	1198/S/R	MAR10A-J	-
	1098/S/R	MAR10A-J	
	899 Panigale	MAR9A-J	-

► KTM

Road	1190 RC8/R	LKAR9BI9,LMAR7A-9%3		
Motocross	450SX-F('13~)	LKAR8AI-9	-	
	450SX-F('07~'12)	CR9EKB	R0373A-0*2	p7
	350SX-F('11~)	LMAR9AI-8	-	- (
	250SX-F('13~)	LMAR9AI-8	-	рб
	250SX-F('06~'12)	CR9EKB	R0373A-0*2	p7
	1255X('02~'08)	BR9EVX	BROEIX,R7376-O	р3
	65SX('09~)	LR8B	-	
	50SX('09~)	CR8HSA	CROHIX	p7

% 1 :The thread length is longer than the normal type due to setting the detonation counter. % 2 :You need terminal nut.

* 3 : There are two product numbers for twin spark engines.



NGK SPARK PLUG CO., LTD.

http://www.ngk-sparkplugs.jp/english/

Turn off your engine when replacing or adjusting the spark plugs. Otherwise it may result in fire or electrocution.

The spark plugs in this catalogue are not designed for use in airplanes, light aircraft, or drones and cannot be used in these vehicles.

The spark plugs in this catalogue are ignition devices for internal combustion engines and therefore designed for use in gasoline engines. They cannot be used to ignite gas burners.

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