

HITACHI
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Ignition Coil Catalog 2010

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IGNITION COIL



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About Us

Hitachi Automotive Products (USA), Inc. manufactures and markets a broad range of electrical and electronic automotive products for all major automotive original equipment manufacturers and also aftermarket customers. Established in Harrodsburg, Kentucky, in 1985, Hitachi Automotive Products (USA), Inc. supports operations in Kentucky, Los Angeles and Detroit. Our product offering includes three major categories:

- (1) Engine Management Systems, which includes Ignition Coils, Mass Airflow Sensors, Fuel Injectors, and Engine Control Units;
- (2) Electric Powertrain Systems, which includes Starters, Alternators and Hybrid System components;
- (3) Drive Control Systems, which includes Shock Absorbers, Brake Calipers and Power Steering parts.

Our primary mission is to focus our business resources on automotive systems that address environmental and safety demands, with the aim of becoming a leading supplier in the global automotive market. Our products are manufactured based on technology and experience as an original equipment supplier. As such, we are committed to fulfilling all requirements, including those specified by our customers, industry standards and statutory regulations. We are also committed to the continual improvement of products, services and processes.

IGNITION COIL

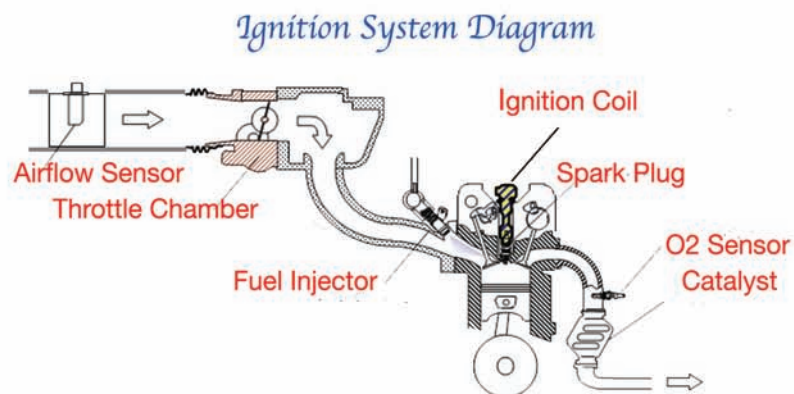


What Is An Ignition Coil?

An ignition coil is an induction coil which transforms the battery's 12 volts to the tens of thousands of volts needed to ignite the spark plugs.

The ignition coil consists of a primary coil and a secondary coil, each with a different number of wire turns. The primary coil generates a magnetic field with the battery voltage; and by using this magnetic field, the secondary coil will have tens of thousands of volts of induced current.

With the older-style ignition coils, the induced current is distributed to each spark plug through the distributor. In modern systems, most ignition coils have a direct ignition system, which does not have a distributor. The ignition coil is placed on top of each spark plug. Therefore, this system is also called a plug top type coil system (see drawing).



Main Causes of Failure and Method of Checking

The life of an ignition coil depends on conditions in the engine compartment and conditions and maintenance of other secondary or related plug parts.

Main Cause

When the ignition coil gets old, the insulation coating of the wire deteriorates and this causes a short-circuit between the layers of wire.

Main symptoms are as follows:

- Rotating Speed of engine does not increase, or stutters, during acceleration
- There is a strange noise, such as a breathing sound
- Unstable idling and sometimes the engine will stop
- Difficulty starting the engine even though the battery and alternator are in good condition

Method of Checking

Diagnose the problem by measuring the resistance between the ignition coil terminals to determine if there are any short circuits or exposed wires. Even if short circuits or exposed wires are not found and the problem is not solved (or improved) or if the problem occurs continuously, ignition coil replacement is recommended.



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Make/Model	Year	Fitment Notes	Additional Notes	Part No.
ACURA				
3.2 TL	2000-2003	3.2l		IGC0055
CL	1997-1999	2.2l, 2.3l		IGC0066
CL	2001-2003	3.2l		IGC0055
SLX	1996-1997			IGC0047
SLX	1998-1999			IGC0048
AUDI				
80, 90 series	1988-1992			IGC0059
100,200 series	1988-1991			IGC0059
5000	1985-1988	Turbo		IGC0058
Coupe Quattro	1988-1992			IGC0059
V8-Quattro	1990-1994			IGC0059
BUICK				
Lucerne	2009	3.9l		IGC0068
Ranier	2006-2007	4.2l		IGC0067
Rendezvous	2006-2007	3.5l		IGC0068
Terraza	2005			IGC0068
Terraza	2006	3.5l		IGC0068
CADILLAC				
Escalade	2003-2007	6.0l		IGC0069
Escalade	2003-2007	8.1l		IGC0069
Escalade ESV	2003-2007	6.0l		IGC0069
Escalade EXT	2003-2007	6.0l		IGC0069
CHEVROLET				
Avalanche	2003-2007	5.3l		IGC0069
Avalanche	2003-2007	8.1l		IGC0069
Colorado	2007-2009	2.9l and 3.7l		IGC0067
Corvette	2005-2008	3.4l		IGC0070
Equinox	2005-2009	3.4l		IGC0068
Express 1500	2003-2007	5.3l		IGC0069
Express 1500	2008-2009	4.3l		IGC0068
Express 2500	2003-2007	5.3l		IGC0069
Express 2500	2003-2007	4.8l		IGC0069
Express 2500	2003-2007	6.0l		IGC0069
Express 3500	2003-2007	6.0l		IGC0069
Impala	2005-2008	5.3l		IGC0070
Impala	2006-2009	3.5l		IGC0068
Impala	2008-2009	3.9l		IGC0068
Kodiak	2003-2007	8.1l		IGC0069

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Make/Model	Year	Fitment Notes	Additional Notes	Part No.
CHEVROLET (CONTINUED)				
Malibu	2004-2006	3.5l		IGC0068
Malibu	2008	3.5l		IGC0068
Monte Carlo	2006	3.5l		IGC0068
Monte Carlo	2006-2008	5.3l		IGC0070
Silverado	2003-2007	4.8l		IGC0069
Silverado	2003-2007	5.3l		IGC0069
Silverado Hybrid	2003-2007	5.3l		IGC0069
Silverado SS	2003-2007	6.0l		IGC0069
Silverado 1500	2007-2009	4.3l		IGC0068
Silverado 2500	2003-2007	6.0l		IGC0069
Silverado 2500	2003-2007	8.1l		IGC0069
Silverado 3500	2003-2007	6.0l		IGC0069
Silverado 3500	2003-2007	8.1l		IGC0069
SSR	2005-2006			IGC0070
Suburban	2003-2007	5.3l		IGC0069
Suburban	2003-2007	6.0l		IGC0069
Suburban	2003-2007	8.1l		IGC0069
Tahoe	2003-2007	4.8l		IGC0069
Tahoe	2003-2007	5.3l		IGC0069
Uplander	2005-2006	3.5l		IGC0068
Uplander	2008	3.9l		IGC0068
W3500/W4500	2003-2007	6.0l		IGC0069
GMC				
Canyon	2007-2009	2.9l and 3.7l		IGC0067
Canyon	2007-2009	2.9l and 3.7l		IGC0067
Envoy	2006-2009	4.2l incl. SLE, SLT, XL SLE, XL SLT, XL		IGC0067
Envoy Denali	2005-2009	5.3l INCL. XL SLE, XL SLT, XUV SLE, XUV SLT		IGC0070
Savana 1500	2003-2007	5.3l		IGC0069
Savana 1500	2008-2009	4.1l		IGC0068
Savana 1500	2008-2009	5.3l		IGC0070
Savana 2500	2003-2007	5.3l		IGC0069
Savana 2500	2003-2007	4.8l		IGC0069
Savana 2500	2003-2007	6.0l		IGC0069
Savana 2500	2008-2009	4.8l and 6.0l		IGC0070
Savana 3500	2003-2007	6.0l		IGC0069
Savana 3500	2008-2009	4.8l and 6.0l		IGC0070
Sierra 1500	1999-2007	4.8l, 5.3l, 6.0l; 2007 Classic series and 2007 SLE, SLT 6.0l		IGC0069
Sierra 1500	2007-2009	4.3l		IGC0068

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Make/Model	Year	Fitment Notes	Additional Notes	Part No.
GMC (CONTINUED)				
Sierra 1500	2007-2009	4.8l, 5.3l, 6.0l and 6.2l; 2007 4.8l and 5.3l SLE, SLT and WT		IGC0070
Sierra 2500	1999-2007	All 5.3l, 6.0l, 8.1l; 2007 Classic series		IGC0069
Sierra 2500	2007-2009	4.8l, 5.3l, 6.0l and 6.2l; 2007 SLE, SLT and WT 6.0l		IGC0070
Sierra 3500	2001-2007	All 6.0l and 8.1l; 2007 Classic series		IGC0069
Sierra 3500	2007-2009	4.8l, 5.3l, 6.0l and 6.2l; 2007 SLE, SLT and WT 6.0l		IGC0070
Sierra 1500 Hybrid	2005-2007	5.3l		IGC0069
Sierra 1500 Hybrid	2009	6.0l		IGC0070
Topkick	2003-2007	8.1l		IGC0069
W3500/4500	2003-2007	6.0l		IGC0069
Yukon	2000-2006	5.3l		IGC0069
Yukon	2000-2006	4.8l		IGC0069
Yukon	2007-2009			IGC0070
Yukon Denali	2000-2006	6.0l		IGC0069
Yukon Denali XL	2000-2006	6.0l		IGC0069
Yukon XL	2000-2006	5.3l, 6.0l, 8.1l		IGC0069
HONDA				
Accord	1994-1995	4 cylinder, w/vtec eng		IGC0064
Accord	1996-1997	4 cylinder, w/vtec eng		IGC0066
Accord	1998-2002	4 cylinder		IGC0066
Accord	2001-2002	6 cylinder		IGC0055
Accord	2003	3.0l		IGC0055
Accord	2008-2009	3.5l		IGC0056
Civic	1996			IGC0064
Civic	1997	to engine #2318233		IGC0064
Civic	1997-2000	from engine #2318234		IGC0065
Civic	2001-2005	1.7l		IGC0055
Civic Hybrid	2003-2005	Coil B		IGC0051
Civic Hybrid	2003-2005	Coil A		IGC0052
Civic Hybrid	2006-2009			IGC0051
Fit	2007-2008			IGC0053
Fit	2009			IGC0073
Insight	2000-2006			IGC0050
Odyssey	1995-1997			IGC0064
Odyssey	1998			IGC0065
Odyssey	1999-2003	3.5l		IGC0055
Odyssey	2008			IGC0056
Passport	1996-1997			IGC0047

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Make/Model	Year	Fitment Notes	Additional Notes	Part No.
HONDA (CONTINUED)				
Passport	1998-1999			IGC0048
Pilot	2003-2005			IGC0055
Ridgeline	2006-2007			IGC0055
HUMMER				
H2	2003-2007	6.0l		IGC0069
Full Size P/U	2003-2007	8.2l		IGC0069
H2 SUT	2003-2007	6.0l		IGC0069
H3	2007-2008	3.7l		IGC0067
INFINITI				
EX35	2008-2009	3.5l		IGC0003
FX	2003-2008	4.5l		IGC0009
FX35	2003-2008	3.5l		IGC0007
FX35	2009	3.5l		IGC0003
G20	1991-1994			IGC0046
G35	2003-2007			IGC0007
G35	2008	3.5l		IGC0003
I30	1996-1999	Right		IGC0012
I30	1996-1999	Left		IGC0015
I30	2000	All, right		IGC0021
I30	2000	All, left		IGC0024
I30	2001	All, left 3.0l		IGC0026
I35	2002-2004	3.5l		IGC0006
J30	1993-1997	3.0l		IGC0035
M30	1990-1992			IGC0041
M35	2006-2008			IGC0007
M35	2009	3.5l		IGC0003
M45	2003-2004			IGC0009
M45	2006-2007			IGC0009
M45	2009			IGC0007
Q45	1990-1995	For cylinders #1, #2		IGC0028
Q45	1990-1996	Cylinders #3-#8		IGC0032
Q45	1996	Cylinders #3-#8		IGC0016
Q45	1996	Cylinders #3-#8.	w/o bracket & screws	IGC0017
Q45	1997-2001	All		IGC0013
Q45	2002-2006	All		IGC0009
QX4	2001	#1 from 9/00 - 2001		IGC0023
QX4	2001	#2-#6 from 9/00 - 2001		IGC0027
QX4	2001	Cyl #1 to 9/00		IGC0022
QX4	2001	Cylinders #2-#6 to 9/00		IGC0025

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Make/Model	Year	Fitment Notes	Additional Notes	Part No.
INFINITI (CONTINUED)				
QX4	2002-2003	3.5l		IGC0006
QX56	2004-2007	5.6l		IGC0004
QX56	2008-2009	5.6l		IGC0001
ISUZU				
Amigo	1989	2.3l		IGC0060
Amigo	1990-1993	2.3l		IGC0063
Amigo	1990-1994	2.6l		IGC0062
Amigo	1998-1999	3.2l		IGC0048
Pick-up	1986-1989	2.3l		IGC0060
Pick-up	1990	2.3l		IGC0063
Pick-up	1990-1995	2.6l		IGC0062
Pick-up	1991-1994	2.3l, w/o fuel injection		IGC0063
Pick-up	1994	2.3l, w/fuel injection		IGC0062
Pick-up	1995	2.3l		IGC0062
Rodeo	1991-1997	2.6l		IGC0062
Rodeo	1996-1997	3.2l		IGC0047
Rodeo	1998-1999	3.2l		IGC0048
Rodeo Spt	1998-1999	3.2l		IGC0048
Trooper	1996-1997	3.2l		IGC0047
Trooper	1998-2000			IGC0048
Trooper II	1987	2.0l, 2.3l		IGC0062
Trooper II	1988-1989	2.6l		IGC0060
Trooper II	1990-1991	2.6l		IGC0062
Vehicross	1999-2001			IGC0049
MAZDA				
323	1990-1994		w/o bracket & screws	IGC0044
Millenia	1995	2.3l; to 10/1/94		IGC0018
Millenia	1995-2002	2.3l; from 10/1/94		IGC0019
MX-3	1992-1993	1.6l	w/o bracket & screws	IGC0044
Protégé	1990-1994		w/o bracket & screws	IGC0044
NISSAN				
200SX	2002-2006	1.8l		IGC0010
200SX	2002-2006	2.5l		IGC0008
240SX	1990			IGC0041
240SX	1991-1994			IGC0042
300ZX	1988-1989			IGC0046
300ZX	1990-1994	w/turbo		IGC0036
300ZX	1990-1994	w/o turbo		IGC0035

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Make/Model	Year	Fitment Notes	Additional Notes	Part No.
NISSAN (CONTINUED)				
300ZX	1990-1994	3.0L VG30DE to 3/94		IGC0037
300ZX	1990-1994	3.0l w/turbo VG30DETT to 3/94		IGC0038
300ZX	1994-1996	3.0l w/o turbo VG30DE from 3/94		IGC0039
300ZX	1994-1996	3.0l; w/o protector, w/turbo; VQ30DETT from 3/94		IGC0040
300ZX	1995-1996	w/protector, w/o turbo		IGC0035
300ZX	1995-1996	w/ protector, w/turbo		IGC0036
350Z	2003-2006	w/ protector		IGC0007
350Z	2007-2009	All		IGC0003
Altima	1993-1997			IGC0075
Altima	2002-2006	2.5l		IGC0008
Altima	2002-2006	3.5l		IGC0006
Altima	2007-2009	2.5l, Including Hybrid		IGC0002
Altima	2007-2009	3.5l		IGC0003
Armada	2004-2007	5.6l; to 08/06		IGC0004
Armada	2007-2008	5.6l; from 08/06		IGC0001
Axxess	1990			IGC0041
Cube	2009	1.8l		IGC0002
Frontier	2005-2009	2.5l		IGC0011
Frontier	2005-2009	4.0l		IGC0006
Maxima	1990-1994	SOHC		IGC0046
Maxima	1995-1999	Right		IGC0012
Maxima	1995-1999	Left		IGC0015
Maxima	2000	All, right		IGC0021
Maxima	2000	All, left		IGC0024
Maxima	2001	All, right 3.0l		IGC0074
Maxima	2001	All, left 3.0l		IGC0026
Maxima	2002-2008	3.5l		IGC0006
Maxima	2009	3.5l		IGC0003
Murano	2003-2007	3.5l		IGC0006
Murano	2009	3.5l		IGC0003
NX	1991-1993	SR20DE		IGC0046
Pathfinder	1990-1995	VG30E, 6cylinder (1995)		IGC0046
Pathfinder	2001	6 cylinder, #1 to 8/00		IGC0022
Pathfinder	2001	6 cylinder, #2-#6 to 8/00		IGC0025
Pathfinder	2001	6 cylinder, #1 from 8/00		IGC0023
Pathfinder	2001	6 cylinder, #2-#6 from 8/00		IGC0027
Pathfinder	2002-2004	3.5l		IGC0006
Pathfinder	2005-2008	4.0l		IGC0006
Pathfinder	2008-2009	5.6l		IGC0001
Pick-up	1995	VG30E, 6 cylinder		IGC0046
Pick-up	2001	6 cylinder, #1 to 8/00		IGC0022

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Make/Model	Year	Fitment Notes	Additional Notes	Part No.
NISSAN (CONTINUED)				
Pick-up	2001	6 cylinder, #2-#6 to 8/00		IGC0025
Pick-up	2001	6 cylinder, #1 from 8/00		IGC0023
Pick-up	2001	6 cylinder, #2-#6 from 8/00		IGC0027
Pulsar	1990	w/se, xe		IGC0041
Quest	2004-2009	3.5l		IGC0006
Rogue	2008-2009	2.5l		IGC0002
Sentra	1990			IGC0041
Sentra	1991-1994	SR20DE		IGC0046
Sentra	2000-2001			IGC0054
Sentra	2002-2006	1.8l		IGC0010
Sentra	2002-2006	2.5l		IGC0008
Sentra	2005-2006	California, 1.8l		IGC0005
Sentra	2007-2009	2.5l; 2.0l and 2.5l for 2009		IGC0002
Stanza	1990-1992	1990= fuel injection & w/o wagon	w/o bracket and screws	IGC0041
Titan	2004-2007	5.6l		IGC0004
Titan	2008-2009	5.6l		IGC0001
Versa	2007-2009			IGC0002
Xterra	2005-2009	4.0l		IGC0006
PONTIAC				
G6	2005			IGC0068
G6	2006-2008	3.5l		IGC0068
Grand Prix	2005-2007	5.3l		IGC0070
GTO	2005-2008	6.0l		IGC0070
Montana	2005	sv6		IGC0068
Montana	2006	sv6, 3.5l		IGC0068
Torrent	2004-2009	3.4l		IGC0068
SAAB				
9-7x	2005-2008	5.3l		IGC0070
9-7x	2006-2009	4.2l		IGC0067
SATURN				
Aura	2008	3.5l		IGC0068
Relay	2006	3.5l		IGC0068
Relay	2007	3.9l		IGC0068
Vue	2008-2009	3.5l		IGC0068
SUBARU				
Impreza	1993-1997	1.8l		IGC0057
Justy	1990-1991	w/o fuel injection		IGC0061
Legacy	1994	2.2l		IGC0057

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Make/Model	Year	Fitment Notes	Additional Notes	Part No.
VW				
Corrado	1992	2.8l		IGC0059
Golf	1993	2.8l		IGC0059
GTI	1993	2.8l		IGC0059
Jetta	1993	2.8l		IGC0059
Passat	1992-1993	2.8l		IGC0059



Parts Interchange Information

OE Part #	Make	Hitachi Part No.	SMP #
4A0-905-105B	Audi/VW	IGC0059	UF-105
8A0-905-105	Audi	IGC0058	UF-106
12558693	GM	IGC0069	UF-271
12570616	GM	IGC0070	UF-413
12595088	GM	IGC0068	UF-434
12612369	GM	IGC0067	UF-497
30500P0AA01	Honda	IGC0064	UF-123
30500PAAA01	Honda	IGC0066	UF-203
30500PCA003	Honda	IGC0065	UF-289
30520PHM003	Honda	IGC0050	UF-257
30520PWA003	Honda	IGC0052	UF-373
30520PWC003	Honda	IGC0053	-
30520R70A01	Honda	IGC0056	-
30520RB0003	Honda	IGC0073	-
30520RCAA02	Honda	IGC0055	UF-488
30521PWA003	Honda	IGC0051	UF-374
8941367660	Isuzu	IGC0060	UF-65
8943389230	Isuzu	IGC0062	UF-64
8943718380	Isuzu	IGC0063	UF-225
8970968040	Isuzu/Honda	IGC0047	UF-171
8971363250	Isuzu/Honda	IGC0048	UF-245
8971745540	Isuzu	IGC0049	UF-245
B6S7-18-100	Mazda	IGC0044	FD-485
B6S7-18-10XA	Mazda	IGC0044 *	FD-485
G622-18-100	Mazda	IGC0045	UF-41
KJ01-18-100A	Mazda	IGC0018	UF-260
KJ01-18-100C	Mazda	IGC0019	UF-151
22433-30P00	Nissan	IGC0035	-
22433-30P01	Nissan	IGC0036	UF-132
22433-53F00	Nissan	IGC0042	UF-118
22433-55S10	Nissan	IGC0046	UF-38
22433-56E11	Nissan	IGC0041	UF-38
22433-59S12	Nissan	IGC0020	UF-259
22433-60U01	Nissan	IGC0028	UF-273
22433-60U05	Nissan	IGC0032	UF-299
22433-65Y10	Nissan	IGC0043	UF-118
22433-67U05	Nissan	IGC0016	UF-292
22448-1E400	Nissan	IGC0075	UF-248
22448-1P100	Nissan	IGC0030 *	UF-281
22448-1P105	Nissan	IGC0033 *	UF-281
22448-19B61	Nissan	IGC0041 **	UF-38

* w/o bracket and screws

** w/o bracket, screws and power transistor

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Parts Interchange Information

OE Part #	Make	Hitachi Part No.	SMP #
22448-2Y000	Nissan	IGC0021	UF-348
22448-2Y001	Nissan	IGC0074	UF-348
22448-2Y005	Nissan	IGC0024	UF-363
22448-2Y007	Nissan	IGC0026	UF-332
22448-30P00	Nissan	IGC0037	UF-132
22448-30P01	Nissan	IGC0038	UF-320
22448-30P02	Nissan	IGC0039	UF-132
22448-30P03	Nissan	IGC0040	UF-132
22448-31U01	Nissan	IGC0012	UF-263
22448-31U06	Nissan	IGC0015	UF-232
22448-3H000	Nissan	IGC0013	UF-282
22448-4M50A	Nissan	IGC0054	-
22448-4W000	Nissan	IGC0022	UF-328
22448-4W001	Nissan	IGC0023	UF-328
22448-4W010	Nissan	IGC0025	UF-331
22448-4W011	Nissan	IGC0027	UF-331
22448-60U02	Nissan	IGC0031 *	UF-409
22448-60U06	Nissan	IGC0034 *	UF-416
22448-65E00	Nissan	IGC0041 *	UF-38
22448-67U00	Nissan	IGC0014 *	UF-249
22448-67U05	Nissan	IGC0017 *	UF-250
22448-6N015	Nissan	IGC0010	UF-351
22448-7S015	Nissan	IGC0004	UF-510
22448-8H315	Nissan	IGC0008	UF-350
22448-8J11C	Nissan	IGC0006	UF-349
22448-8U715	Nissan	IGC0005	UF-548
22448-AL61C	Nissan	IGC0007	UF-401
22448-AR215	Nissan	IGC0009	UF-482
22448-EA000	Nissan	IGC0011	UF-509
22448-JA00C	Nissan	IGC0002	UF-549
22448-JA10C	Nissan	IGC0003	UF-550
22448-ZE00C	Nissan	IGC0001	UF-551
22433AA360	Subaru	IGC0057	UF-160
22433KA081	Subaru	IGC0061	UF-38

* w/o bracket and screws

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Hitachi Ignition Coil Packaging



Check out the all-new
ignition coil packaging!

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