



BERU NEWSLETTER #8



PSG008

Fitted Audi and VW



Z361 and Z362
for Kia and Hyundai

PSG Pressure Sensor Glow Plug range further extended and new Spark Plugs added for Asian Cars.

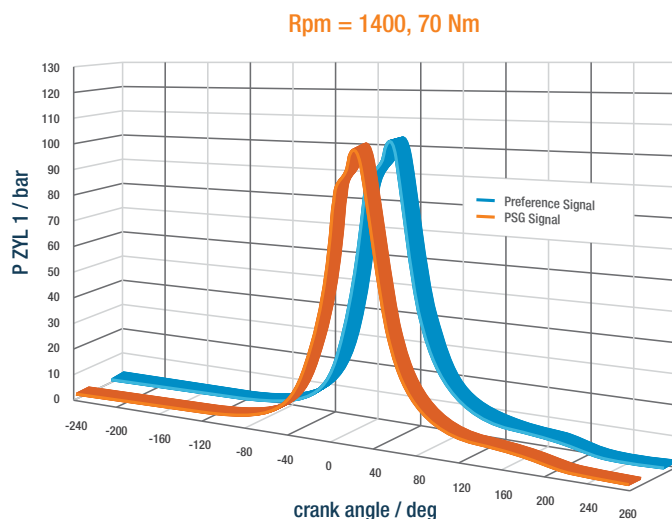
Beru introduces the PSG008 for Audi and VW applications. The Z361 and Z362 are two new spark plugs for Hyundai and Kia models.

With the new PSG008 Beru is offering yet another important Pressure Glow Plug for Audi A5, A6, A7, Q5, Q7 and VW Touareg, while the Z361 and Z362 spark plugs are covering the majority of Kia and Hyundai car parc.

Innovative pressure sensor glow plug.

Critical for modern engine build. Necessary for today's performance and emissions standards.

With the world's first glow plug to enable the regulation of the combustion processes inside a closed loop system on the market, BERU once again highlights its technological lead. By installing pressure sensor glow plugs higher peak pressures can be implemented in today's smaller engines, standard and future combustion processes can be pushed even further to their limits, and constantly stable emissions control can be obtained throughout the engine's entire service life.



Future of cold start technology

The BERU PSG is an intelligent glow plug with integrated combustion chamber pressure sensor which reports data to the engine control electronics. Injection is adjusted to the actual combustion in real time.

Benefits at a glance

- 1 Cylinder pressure can be recorded up to 200 bar, accurate to +/- 2% and with a resolution up to 700 steps per combustion cycle.
- 2 The ECU is able to constantly adapt the fuel injection, the charge pressure and the exhaust gas recycling rate.
- 3 Ignition can be optimised to each cylinder
- 4 Improves cold starts and cold running quality.
- 5 Enables optimum torque control
- 6 Higher engine performance with limited emission of pollutants, soot particles and nitrogen oxides
- 7 "Closed loop" method introduced into the Diesel Engines

Spark plugs for Korean car makes.

The Z361 and Z362 spark plugs are dedicated spark plugs for Korean car makes. Hyundai and Kia are important players on the world wide market, and with the introduction of these 2 new spark plugs Beru is increasing the market coverage for the ASIAN applications.



Ready to order: 17 NPI's from BERU

Diesel Cold-Start Technology

Pressure Sensor Glow Plugs (PSG)



Glow Plugs



Control Units



Ignition Technology

Spark Plugs



Ignition Coils





**Trade
Number
PSG008**

Product group
Pressure Sensor Glow
Plug

OE Reference
VAG 059 905 061 E

Main Application

Audi: A5, A6, A7, Q5, Q7
(2014 →)

Volkswagen: Touareg (2015 →)

EAN/UPC-Code

4044197858552

Dimension (mm)

260 × 40 × 40

Gross Weight (kg)

0,071

Net Weight (kg)

0,047



**Trade
Number**
GE127

Product group
Glow Plug

OE Reference
GENERAL MOTORS
22472368
25181860
OPEL
4802239

Main Application

Chevrolet: Captiva
Opel: Antara
Vauxhall: Antara (2010 →)

EAN/UPC-Code

4044197848287

Dimension (mm)

160 × 27 × 23

Gross Weight (kg)

0,031

Net Weight (kg)

0,025



**Trade
Number**
GSE105

Product group
Control Unit

OE Reference
BMW 12 21 7 798 000

Main Application

BMW: 1, 1 Coupe, 3,
3 Convertible, 3 Coupe,
3 Touring, 5 Touring, X1, X3
(2005 →)

EAN/UPC-Code
4044197907267

Dimension (mm)
210× 100 × 75

Gross Weight (kg)
0.256

Net Weight (kg)
0,200



**Trade
Number**
GSE108

Product group
Control Unit

OE Reference
BMW 12 21 7 800 156

Main Application

BMW: 3, 3 Convertible, 3 Coupe,
3 Touring, 5, 5 Gran Turismo,
5 Touring, 7, X5, X6 (2008 →)

EAN/UPC-Code
4044197907205

Dimension (mm)
210 x 100 x75

Gross Weight (kg)
0.262

Net Weight (kg)
0.203



**Trade
Number**
GSE110

Product group
Control Unit

OE Reference
Mercedes-Benz
646 153 25 79
A 646 153 25 79

Main Application

Mercedes-Benz: C-Class,
C-Class T-Model, E-Class,
E-Class Model (2003 →)

EAN/UPC-Code
4044197907281

Dimension (mm)
210 x 100 x 75

Gross Weight (kg)
0.258

Net Weight (kg)
0.201



**Trade
Number**
GSE113

Product group
Control Unit

OE Reference
Mercedes-Benz
648 153 02 79
A 648 153 02 79

Main Application
Mercedes-Benz: E-Class,
E-Class T-Model (2002 → 2009)

EAN/UPC-Code
4044197907229

Dimension (mm)
210 x 100 x 75

Gross Weight (kg)
0.305

Net Weight (kg)
0.246



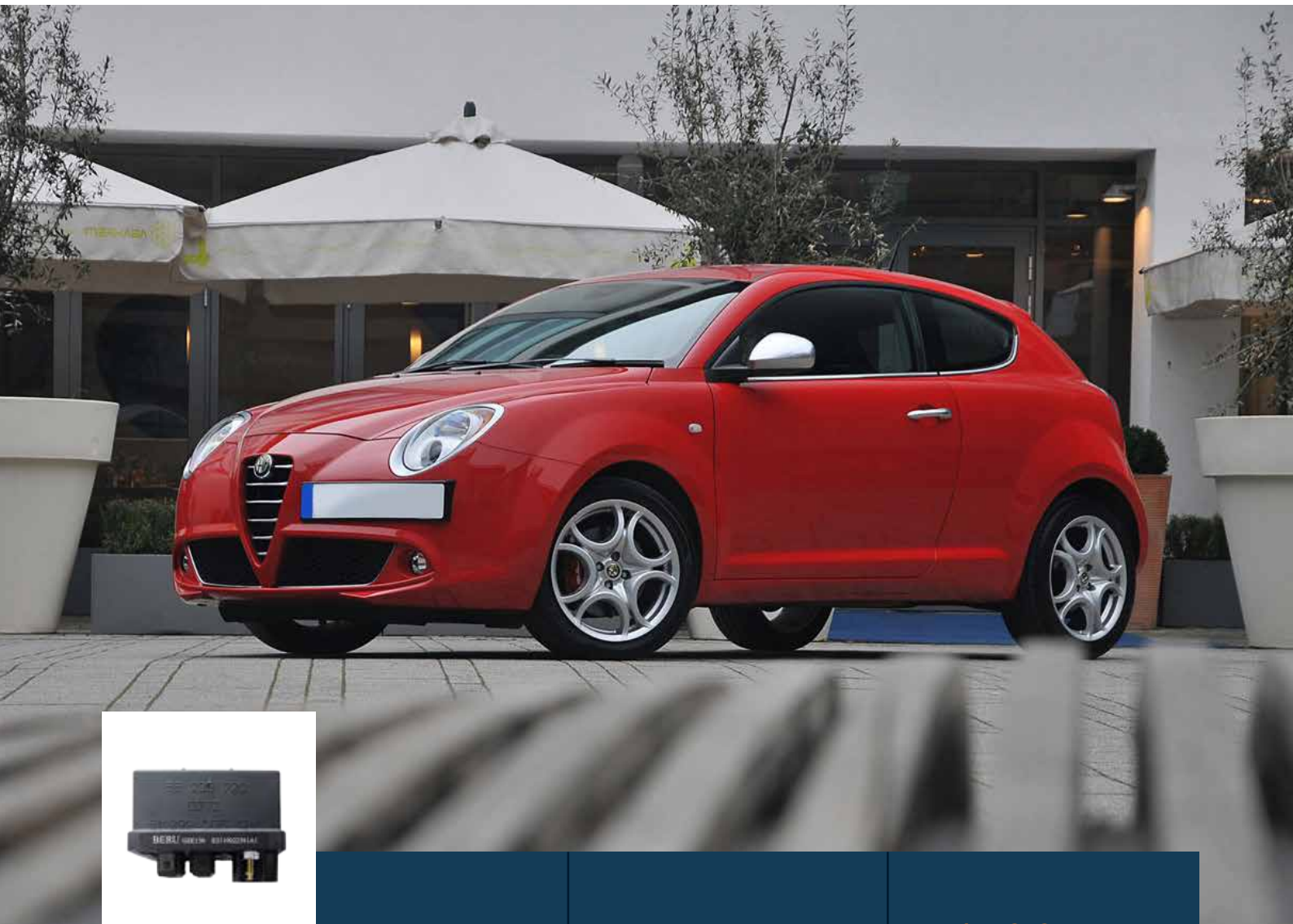
**Trade
Number**
GSE118

Product group
Control Unit

OE Reference
Mercedes-Benz
629 153 06 79
A 629 153 06 79

Main Application
Mercedes-Benz: E-Class,
GL-Class, M-Class, S-Class
(2006 →)

EAN/UPC-Code
4044197907243
Dimension (mm)
210 x 100 x 75
Gross Weight (kg)
0.305
Net Weight (kg)
0.246



**Trade
Number**
GSE150

Product group
Control Unit

OE Reference
FIAT
51233720
51888255

Main Application

Alfa Romeo: 147, 156, 156 Sport Wagon, 159, 159 Sport Wagon, 166, Brera, Mito, Spider (2000 →)

Fiat: 500, 500 C, Brava, Bravo I+II, Croma, Doblo, Doblo MPV, Ducato Box, Ducato Bus, Grande Punto, Idea, Panda, Punto, Siena (2001 →)

Lancia: Lybra, Musa, Thesis, Ypsilon (2000 →)

EAN/UPC-Code
4044197844227

Dimension (mm)
210 × 100 × 75

Gross Weight (kg)
0,215

Net Weight (kg)
0,156



Trade Number GSE153

Product group
Control Unit

OE Reference

FIAT
46414088
46432278
46438456
46772573
60812527
7735921
9615959448
LANCIA
46438456

Main Application

Fiat: Brava, Bravo I, Fiorino Box,
Marea, Palio Weekend, Punto,
Strada Pickup, Tempra
(1991 →)

Lancia: Dedra, Delta II
(1994 → 1999)

EAN/UPC-Code

4044197907304

Dimension (mm)

210 × 100 × 75

Gross Weight (kg)

0,210

Net Weight (kg)

0,152



**Trade
Number**
Z361

Product group
Spark Plug

OE Reference
HYUNDAI-KIA
18827-09080
18843-10062

Main Application
Hyundai: i10, i20
(2008 →)
Kia: Picanto, Rio III
(2011 →)

EAN/UPC-Code
4044197854899

Dimension (mm)
88,5 × 26 × 23,5

Gross Weight (kg)
0,046

Net Weight (kg)
0,043



Trade Number Z362

Product group
Spark Plug

OE Reference
HYUNDAI - KIA
1884610060
1885409080
1885510060

Main Application

Hyundai: Accent IV, Accent IV Saloon, Elantra Saloon, i20, i30, ix20, ix35, Veloster (2008 →)

Kia: Carens III, Cee'd, Cee'd Hatchback, Cee'd SW, Cerato II, Saloon, Cerato Koup, Rio III, Soul, Sportage, Venga (2007 →)

EAN/UPC-Code
4044197854912

Dimension (mm)
88,5 × 26 × 23,5

Gross Weight (kg)
0,046

Net Weight (kg)
0,043



**Trade
Number**
ZS540

Product group
Ignition Coil

OE Reference
Chevrolet
96336522

Main Application
Daewoo: Matiz, Tico
(1998 → 2000)

EAN/UPC-Code
4044197844401

Dimension (mm)
210 × 100 × 75

Gross Weight (kg)
0,570

Net Weight (kg)
0,510



**Trade
Number**
ZS541

Product group
Ignition Coil

OE Reference
HYUNDAI, KIA
2730123900

Main Application

Hyundai: i30, i30 CW
Kia: Ceed'd Hatchback, Cee'd
SW, Pro Cee'd, Sportage
(2004 →)

EAN/UPC-Code
4044197844418

Dimension (mm)
340 × 180 × 155

Gross Weight (kg)
1,266

Net Weight (kg)
0,986



**Trade
Number**
ZS543

Product group
Ignition Coil

OE Reference
CHEVROLET, DAEWOO
96453420

Main Application

Chevrolet: Lacetti (2005 →)

Daewoo: Lacetti Hatchback,
Nexia Saloon, Nubira Saloon,
Nubira Wagon (2003 →)

EAN/UPC-Code
4044197856817

Dimension (mm)
135 × 108 × 66

Gross Weight (kg)
0,775

Net Weight (kg)
0,700



**Trade
Number**
ZS544

Product group
Ignition Coil

OE Reference
HYUNDAI
27310-37100

Main Application
Hyundai: Sonata IV, Trajet, XG
(2001 → 2006)

EAN/UPC-Code
4044197856824
Dimension (mm)
85 × 62 × 92
Gross Weight (kg)
0,600
Net Weight (kg)
0,550



**Trade
Number**
ZSE178

Product group
Ignition Coil

OE Reference
MITSUBISHI
MD361710

Main Application
Mitsubishi: Colt V, Lancer
Estate, Lancer, Saloon, Space
Star (1998 → 2010)

EAN/UPC-Code
4044197844395

Dimension (mm)
210 × 105 × 75

Gross Weight (kg)
0,335

Net Weight (kg)
0,274



**Trade
Number**
ZSE179

Product group
Ignition Coil

OE Reference
MITSUBISHI
MD362907

Main Application

Mitsubishi: Carisma, Carisma Saloon, Colt V, Galant II Station Wagon, Galant IV Saloon, Galant VI, Outlander, Space Runner, Space Wagon (1996 → 2006)

EAN/UPC-Code
4044197856831

Dimension (mm)
184 × 70 × 60

Gross Weight (kg)
0,425

Net Weight (kg)
0,350

Diesel Cold Start Technology

Glow Plugs



- GN: Heating plug, pre-heating - start heating - after-heating
- GV: Glow plug (pre-heating)
- GF: Glow plug for flame-start engines
- GD: Glow plug with wire filament
- GH: Glow plug for additional heaters

Instant Start System (ISS)



- GE: Heating plug electronically controlled, pre-heating - start heating - after-heating

Pressure Sensor Glow Plugs (PSG)



- PSG is an intelligent glow plug with integrated combustion chamber pressure sensor which reports data to the engine control electronics

Ceramic Glow Plugs (CGP)



- Fast, heat-resistant, long lasting

Ignition Technology

Spark Plugs



- Ultra
- Ultra X Titan
- Platin

Ignition Coils



- Distributor Ignition Coils
- Pencil Coils/Plug Top Coils
- Block Ignition Coils
- Ignition Coil Rails

Ignition Leads & Components



Others

Sensors



- Oxygen
- High-temperature
- Speed, Oil and Temperature

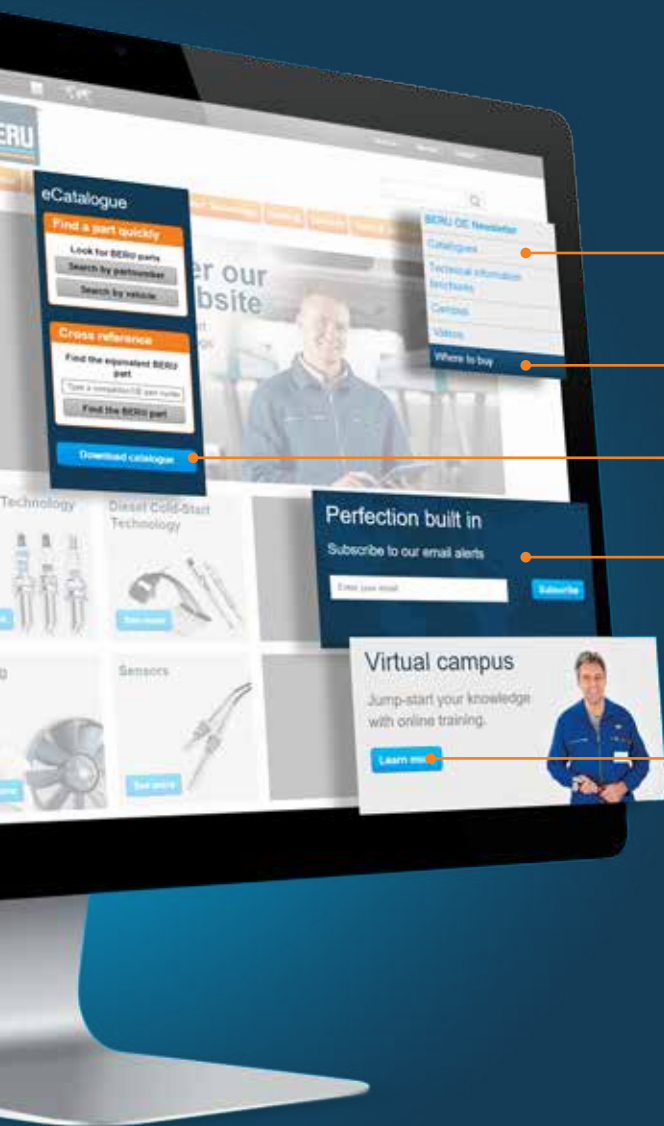
Cooling



- Fan wheels
- Fan Clutches
- Electrical Fans

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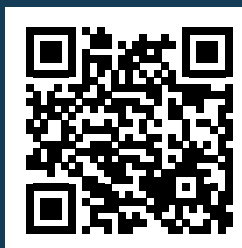
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