

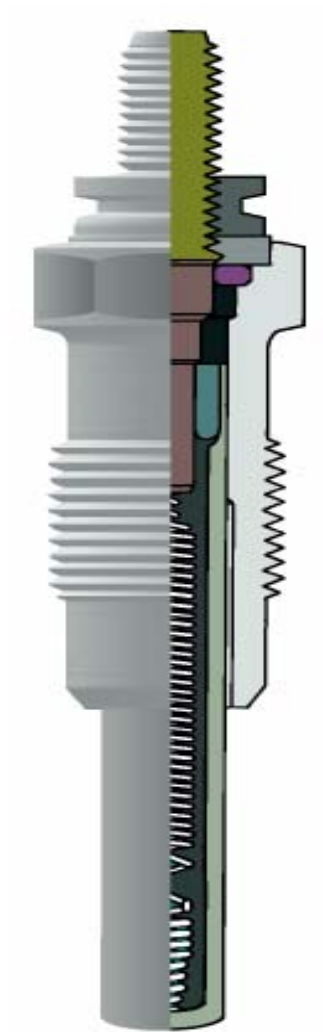


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**North
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2004

Glow Plug Range North America

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GENERAL INFORMATION





Glow plugs are specifically matched to the various engine and glow system concepts. It is very important, when changing glow plug that:

EACH HEATING SYSTEM MUST ONLY BE FITTED WITH THE GLOW PLUG THAT EXACTLY MATCHES THE ENGINE!!!

General Information	
GD	<p>Glow Plug with wire filament for older diesel vehicles and in tractors, traction engines, construction machinery and stationary engines</p> <p>Mode of function: The wire-loop on the glow plug acts as a heating element.</p>
GN	<p>Hi-Tech Glow Plug capable of pre- and post-heating. Sheathed type glow plug in two-filament technique. For new generation diesel vehicles with the capability of post heating.</p> <p>Mode of function: 3-phase glowing for modern glow systems Pre-heating start-heating post-heating</p> <p>Operating voltage: up to 13.5 Volts</p>
Caution:	Only GN glow plugs are designed for this increased operational voltage!
GV	<p>Glow Plug - only pre heating. Sheathed type glow plug in two filament/single filament technique for older diesel vehicles.</p> <p>Mode of function: 2-phase heating - after the engine has started, the glow plug is switched off. Pre-heating start-heating</p> <p>Operating voltage: 11.5 Volts.</p>
Caution:	This glow plus is only designed for a low operation voltage, it should only be used when recommended by the manufacturer of the vehicle!
GH	Glow Plug for additional heaters. Sheathed type of filament glow plug, used for additional heating devices.
GF	<p>Glow Plug for flame-start engines. Flame glow plug used for large volume direct injection diesel engines.</p> <p>Mode of function: When the glow temperature is reached, additional fuel enters the evaporation zone of the flame glow plug - a flame is generated which permanently warms the intake air.</p>



What is post-heating?

***When to use GV-type plugs and when to use the GN-type plugs:
IMPORTANT on replacement is the right tightening torque!***

What is post-heating?

The self-regulating sheathed glow plug protects itself against overheating by limiting the Electricity flowing from the battery to the plug in proportion to the increasing temperature. Voltage increases when the engine is running. With a 12V system the charging voltage of the alternator can reach up to 15.5V and many glow plugs burn out at this voltage. The plugs are also exposed to the combustion temperature, thus heated from the inside as well as the outside. The BERU **GN**-Type glow plugs still function at these voltages! Their **TEMPERATURES** do increase quickly, but **ARE REDUCED BY THE REGULATING COIL** to the steady-state temperature.

When to use GV-type plugs and when to use the GN-type plugs:

If your customer has the old glow system, as typically found in older vehicles, and all he/she wants to do is to **replace the glow plugs**, generally the **GV**-types are used. For exact applications please refer to our catalog.

If however, your customer wants **to up-date** his/her system, to utilize the benefits of the SR-SETs the **GN**-type plugs would be used together with the applicable relais. **ONCE THE SYSTEM IS UP-DATED, FUTURE REPLACEMENT PLUGS MUST ALSO BE THE GN-TYPES!**

IMPORTANT on replacement is the right tightening torque!

When replacing glow plugs, there are three aspects to which special attention must be paid:

- 1** Dirt around the hole for the plug must not fall into the combustion chamber under any
- 2** The glow plug must be tightened to the correct torque!
- 3** The power connection nuts must be tightened to the correct torque.

The glow plug may be damaged by excessive torque! This can lead to irreparable damage to the plug! (Connection stud shear or overheating due to closed annual gap)

1 Fitting a glow plug with a torque wrench:

Ensure to observe vehicle manufacturer's specifications. Do not grease or oil threads!

Caution: observe maximum torque settings

M 10 threads: 12 - 18 Nm

M 12 threads: 25 - 30 Nm

2 Fitting a glow plug without a torque wrench:

Screw the glow plug into the engine block by hand. Using a suitable ring spanner, tighten by approx. 30

3 Tightening the power connection nut:

The maximum torque setting for the power connection nuts must not exceed the following values:

M 4 threads: max. 2 Nm

M 5 threads: max. 3 Nm

If your glow plugs have plug connections, check these for corrosion!

Instant Start System ISS

Electronically controlled glow system



The ISS system glow plug optimized for direct injection (right) converts the power absorbed in the head area even more effectively and consumes around half the energy of the standard glow plug (left).

With the Beru Instant Start System, ISS for short, diesel engines start more quickly and safely than ever

Technical features

- Extremely short heating up time (up to 1,100°C in 2 seconds!)
- Safe start even at temperatures of -25 °C
- Electronically controlled pre-heating, intermediate and post-heating
- Immediate stable idling and clean load assumption
- Minimal emission of pollutants
- Specially designed for diesel engines with direct injection
- On board diagnosis compatible
- Meets the requirements of the strict new EURO IV pollutant standard

THIS SYSTEM IS NOT RETRO FITTABLE!

BUYERS GUIDE





Beru Glow Plug	Beru Order number	Application	Year
GD 382	0 100 101 308	MERCEDES-BENZ 200D 220D 240D 300D 300D, 300CD 300TD	
GN 003	0 100 226 379	Dodge/Freightliner Sprinter (2.7L CDI)	
GN 007	0 100 226 343	CHRYSLER Grand Voyager Voyager	1995- 1995-
GN 048	0 100 226 482	Volkswagen Touareg Phaeton	
GN 855	0 100 226 227	Volkswagen / Audi 4 and 5 Cyl. TDI	
GN 857	0 100 226 173	AUDI 4000 (CY, JK, CR) 5000 (DE, CN)	
GN 857	0 100 226 173	VOLKSWAGEN Dasher (CR, CK) Golf (ME) Jetta (1V, ME, JK, CY, CR) Quantum (MD, CY) Rabbit (CY, JK, CR, CK)	
		VOLKSWAGEN TRUCKS Pickup (JK, CR) Vanagon (CS)	
		VOLVO DL, GL, 240 Series, 760 DL, GL, 240 Series GLE, 260 Series 740, 760 750	
GN 858	0 100 226 234	MERCEDES-BENZ 300D 300 SD 300SDL S350D 350SD, 350SDL 350SDL	

GN 860	0 100 226 258	MERCEDES-BENZ E300 Diesel	
GV 001	0 100 226 105	TOYOTA Land Cruiser	
GV 886	0 100 226 180	TOYOTA Camry Corolla	
GV 888	0 100 220 113	NISSAN Maxima	
GV 894	0 100 222 101	TOYOTA TRUCKS Pickup	
GV 946	0 100 226 207	ISUZU I-Mark ISUZU TRUCKS Pickup Trooper	1985-81
GN 909	0 100 226 186	CHRYSLER Grand Voager Jeep Grand Cherokee Voyager ROVER Range Rover	1995-92 1994- 1995-92 1993
GN 928	0 100 226 199	VOLKSWAGEN Golf Jetta	
GN 948	0 100 226 235	MERCEDES-BENZ E300 Diesel	
GV 003	0 100 800 002	AM General HUMMER / HUMMVEE HMMWV all 6.5L - 24 Volt	1992 ->
GV 004	0 100 271 106	CHEVROLET & GMC TRUCKS 6.2 and 6.5 GM Engine V8 379 J / C and Engine V8 395 F / P / S / Y	2002 - 82
GV 108	0 100 222 302	PEUGEOT 504 D	
GV 602	0 100 221 106	ROVER Land Rover	1990-83

GV 603	0 100 221 107	MERCEDES-BENZ 190D 240D 300D 300D, 300CD 300D, 300CD, 300SD, 300TD 300SDL 300TD	
GV 636	0 100 221 133	BMW L6 DIESEL	1986-85
		LINCOLN L4 146 2.4 (L)	1985-84
		PEUGEOT L4 2300 2.3 (2) 504D L4 2300 2.3 (XD2) L4 2300 2.3 (4)	
GV 642	0 100 221 135	CHRYSLER Jeep Cherokee Jeep Wrangler	87-94 1988-
		RENAULT Winnebago	1987-82
GV 691	0 100 221 153	MERCEDES 2.5L 602.911	1989-86
GV 705	0 100 221 154	MAZDA 626	1985-84
GV 749	0 100 221 186	ISUZU I-Mark	1985-81
		ISUZU TRUCKS Pickup Trooper	1987-81 1987-86
		CHEVROLET Chevette	1986-81
		PONTIAC Acadian T 1000	1985-81 1985-83
GV 783	0 100 226 129	ROVER Land Rover Range Rover	1989-94 1986-94

819 MJ	0 100 226 138	FORD TRUCKS	
		Econoline, Van, F Series Pickup	
		Powerstroke	2003-95
		IHC (NAVISTAR) TRUCKS / BUSES	
		T 444E	2003-95
<hr/>			
GV 823	0 100 271 101	FORD TRUCKS	
		Econoline, Van, F Series Pickup	
		V8 446 7.3 L	1994-1988
		V8 420 6.9 L	1987
		IHC (NAVISTAR) TRUCKS / BUSES	
		V8 446 7.3 L	1988-84
		V8 420 6.9 L	1987
<hr/>			
GV 835	0 100 271 102	BUICK	
		Century	1983-82
		Electra, Century	1983-81
		Electra, Le Sabre	
		Regal	1983-82
		Riviera	
		CADILLAC	
		DeVille, Eldorado, Fleetwood, Seville	1983-80
		DeVille, Fleetwood, Seville	1979
		CHEVROLET	
		Bel Air	
		Caprice	
		Celebrity	
		Impala	
		Malibu, Monte Carlo	
		CHEVROLET & GMC TRUCKS	
		All	
		5700cc (N,Z)	1982-80
		FORD TRUCKS	
		Econoline, Van, F Series Pickup	
		V8 420 6.9 L	1986-83
		IHC (NAVISTAR) TRUCKS / BUSES	
		V8 420 6.9 L	1986-83
		OLDSMOBILE	
		Ciera	
		Custom Cruiser	
		Cutlass	
		Cutlass Supreme	
		Delta 88, Royale	

GV 835	0 100 271 102	OLDSMOBILE 98 Regency Laurentian Le Mans Parisienne 6000 PONTIAC Bonneville Catalina
819 MJ	0 100 226 138	FORD TRUCKS Econoline, Van, F Series Pickup Powerstroke 2003-95 IHC (NAVISTAR) TRUCKS / BUSES T 444E 2003-95
995 MJ*	0 100 226 303	see GV 004 *until stock is depleted -> GV 004 thereafter
996 MJ	0 100 226 304	BUICK Century Electra, Century Electra, Le Sabre Le Sabre Regal Riviera CADILLAC De Ville, Fleetwood DeVille, Eldorado, Fleetwood, Seville Eldorado, Fleetwood, Seville CHEVROLET Caprice Celebrity Monte Carlo CHEVROLET & GMC TRUCKS All 5700cc (N) 1984-83 OLDSMOBILE Ciera Custom Cruiser Cutlass Supreme Delta 88, Royale 98 Regency PONTIAC Bonneville Parisienne 6000

APPLICATION GUIDE



Vehicle Description DISPLACEMENT	Engine	Year		BERU Glow Plug
AM General				
Hummer	V8 395 (Y) V8 379 (X)	1996-92	24V	GV 003
Hummer	V8 395 (Z)	1997		GV 004
6500cc	V8 FI Diesel	1996-92		GV 004
AUDI				
4000	L4 Diesel (JK) (CY)	1983		GN 857
4000	L4 Diesel (CR)	1982		GN 857
5000	L5 Diesel (DE)	1983 - 86		GN 857
5000	L5 Diesel (CN)	1979 - 82		GN 857
BMW				
524td	L6 DIESEL	1986-85		GV 636
BUICK				
Century				
Custom Estate Wagon 4.3L Limited	V6 260 (T)	1984-85		996 MJ
Custom Limited 4.3L	V6 260 (T)	1983		GV 835
Century 5.7L Limited	V8 350 (N)	1981 - 82		GV 835
Century Estate Wagon 5.7L	V8 350 (N)	1981		GV 835
Electra				
300 Park Avenue 4.3L	V6 260 (T)	1984 - 85		996 MJ
Esate Wagon 5.7	V8 350 (N) RWD	1984		996 MJ
Estate Wagon Limited 5.7L Park Avenue	V8 350 (N)	1983 - 80		GV 835
Le Sabre				
Custom Limited 5.7L Estate Wagon	V8 350 (N)	1985 - 84		996 MJ
Le Sabre Estate Wagon 5.7L Limited	V8 350 (N)	1983- 80		GV 835
Regal				
Regal 5.7L	V8 350 (N)	1985		996 MJ
Regal 5.7L	V8 350 (N)	1983 - 81		GV 835
Regal 4.3L	V6 260 (V)	1983 - 82		GV 835
Regal Limited 5.7L	V6 260 (V)	1984		996 MJ
Regal Limited 5.7L	V8 350 (N)	1983 - 81		GV 835
Regal Limited 4.3L	V6 260 (V)	1983 - 82		GV 835
Reagl Estate Wagon	V8 350 (N)	1983 - 82		GV 835

Vehicle Description DISPLACEMENT	Engine	Year	BERU Glow Plug
BUICK (continues)			
Riviera			
Riviera 5.7L	V8 350 (N)	1985 - 84	996 MJ
Riviera 5.7L	V8 350 (N)	1983 - 81	
CADILLAC			
DeVille Fleetwood 4.3L	V6 260 (T)	1985	996 MJ
Deville Eldorado Fleetwood Brougham Seville	5.7L V8 350 (N)	1985 - 84	996 MJ
DeVille Eldorado, Fleetwood Brouham Seville	V8 350 (N)	1983 - 79	GV 835
DeVille Eldorado, Fleetwood Brouham Seville	5.7 V8 350 (N)	1979	996 MJ
Seville 5.7L	V8 350 (N)	1978	996 MJ
CHEVROLET			
Bel Air	V8 350 (N)	1981-80	
Blazer 6.2L	V8 379 (C)	1991 - 82	GV 004
Blazer 6.5L	V8 395 (S)	1994	GV 004
Caprice Classic 5.7L	V8 350 (N)	1985-84	996 MJ
Caprice Classic 5.7L	V8 350 (N)	1983-80	GV 835
Celebrity	V6 260 (T)	1985-84	996 MJ
Chevette 1.8L	L4 110 (D)	1981	GV 749
C10			
Pickup 6.2L	V8 379 (J)	1985	GV 004
Pickup 6.2L	V8 379 (J)	1982	GV 004
Pickup 6.2L	V8 379 (C)	1986 - 82	GV 004
Pickup 5.7L	V8 350 (Z)	1981 - 80	GV 835
Suburban 6.2L	V8 379 (C)	1986 - 82	GV 004
C1500			
Pickup 6.2L	V8 379 (C)	1993 - 89	GV 004
Pickup 6.5L	V8 395 (P)	1995 - 94	GV 004
Pickup 6.5L	V8 395 (F), (S)	1998 - 95	GV 004
Suburban 6.5L	V8 395 (F)	1999 -94	GV 004

Vehicle Description DISPLACEMENT	Engine	Year	BERU Glow Plug
CHEVROLET (continues)			
C20			
Pickup 6.2L	V8 379 (C), (J)	1986 - 82	GV 004
Suburban	V8 379 (J)	1986 - 82	GV 004
C2500			
Pickup 6.2L	V8 379 (C), (J)	1993 - 89	GV 004
Pickup 6.5L	V8 395 (F)	2000 - 92	GV 004
Pickup 6.5L	V8 395 (S)	1998 - 94	GV 004
Pickup 6.5L	V8 395 (P)	1995	GV 004
Suburban	V8 379 (C), (J)	1993 - 92	GV 004
Suburban	V8 395 (F)	1999 - 92	GV 004
C30			
Pickup 6.2L	V8 379 (J)	1986 - 82	GV 004
C3500			
Pickup 6.2L	V8 379 (J)	1993 - 89	GV 004
Pickup 6.5L	V8 395 (F)	2000 - 92	GV 004
Pickup HD Chassis Cab	V8 395 (F)	2002 - 01	GV 004
El Camino 5.7	V8 350 (N) Diesel	1984	996 MJ
El Camino 5.7	V8 350 (N) Diesel	1983	GV 835
Express 2500	V8 6.5L (F)	2002 - 99	GV 004
Express 3500	V8 6.5L (F)	2002 - 99	GV 004
G20			
Van 6.2L	V8 379 (C)	1993 - 83	GV 004
Van 6.2L	V8 379 (J)	1985 - 84	GV 004
Van 6.2L	V8 379 (J)	1992	GV 004
Van 6.2L	V8 395 (P)	1995 - 94	GV 004
Van 6.2L	V8 395 (F)	1997 - 96	GV 004
Van Express 6.5	V8 395 (F)	1997	GV 004
Van Sportvan 6.2L	V8 379 (C)	1993 - 83	GV 004
Van Sportvan 6.5L	V8 395 (P)	1995 - 94	GV 004
G2500 Van 6.5L	V8 395 (F)	1998	GV 004
G30			
Van 6.2L	V8 379 (C)	1984	GV 004
Van 6.2L	V8 379 (C)	1982	GV 004
Van 6.2L	V8 379 (J)	1993 - 84	GV 004
Van 6.5L	V8 395 (Y)	1996 - 94	GV 004
Van 6.5L	V8 395 (F)	1997	GV 004
Van Express 6.5L	V8 395 (F)	1997 - 96	GV 004
Van Sportvan 6.2L	V8 379 (J)	1992 - 83	GV 004
Van Sportvan 6.5L	V8 395 (Y)	1996 - 94	GV 004
G3500 Van 6.5L	V8 395 (F)	1998	GV 004
Impala 5.7L	V8 350 (N)	1985 - 84	996 MJ
Impala 5.7L	V8 350 (N)	1983 - 80	GV 835

Vehicle Description DISPLACEMENT	Engine	Year	BERU Glow Plug
CHEVROLET (continues)			
K10			
Pickup 6.2L	V8 379 (C)	1986 - 82	GV 004
Suburban 6.2L	V8 379 (C)	1986 - 82	GV 004
Pickup 6.2L	V8 379 (C)	1993 - 89	GV 004
Pickup 6.5L	V8 395 (P), (F), (S)	1995 - 94	GV 004
Pickup 6.5L	V8 395 (F), (S)	1998 - 96	GV 004
Suburban 6.5L	V8 395 (F)	1999 - 94	GV 004
K2500			
Pickup 6.2L	V8 379 (C), (J)	1993 - 89	GV 004
Pickup 6.5L	V8 395 (F)	2000 - 92	GV 004
Pickup 6.5L	V8 395 (P), (S)	1995 - 94	GV 004
Pickup 6.5L	V8 395 (S)	1998	GV 004
Suburban 6.5L	V8 395 (F)	1999 - 94	GV 004
K30 Pickup 6.2L	V8 379 (J)	1986 - 82	GV 004
K3500 6.2L	V8 379 (J)	1993 - 89	GV 004
K3500 6.5L	V8 395 (F)	2000 - 92	GV 004
LUV Pickup 2.2L	L4 134 (S)	1981	GV 749
Malibu Classic 4.3L	V6 260 (V)	1983-82	GV 835
Monte Carlo	V8 350 (N)	1984	996 MJ
Malibu			
Monte Carlo 5.7L	V8 350 (N)	1983-82	GV 835
MD Bus Chassis	V8 395 (F)	1998 - 97	GV 004
P20 Pickup 6.2L	V8 379 (J)	1989 - 92	GV 004
P30 Van 6.2L	V8 379 (J)	1993 - 82	GV 004
P30 Van 6.5L	V8 395 (F), (Y)	1999 - 94	GV 004
R10 Pickup 6.2L	V8 379 (C)	1987	GV 004
R10 Suburban 6.2L	V8 379 (C)	1987	GV 004
R1500 Suburban 6.2L	V8 379 (C)	1991 - 89	GV 004
R20 Pickup 6.2L	V8 379 (C), (J)	1987	GV 004
R20 Suburban 6.2L	V8 379 (J)	1987	GV 004
R2500 Pickup 6.2L	V8 379 (J)	1989	GV 004
R2500 Suburban 6.2L	V8 379 (J)	1991 - 89	GV 004
R30 Pickup 6.2L	V8 379 (J)	1987	GV 004
R3500 Pickup 6.2L	V8 379 (J)	1991 - 89	GV 004
Tahoe	V8 395 (S)	1998 - 95	GV 004

Vehicle Description DISPLACEMENT	Engine	Year	BERU Glow Plug
CHEVROLET (continues)			
V10 Pickup 6.2L	V8 379 (C)	1987	GV 004
V10 Suburban 6.2L	V8 379 (C)	1987	GV 004
V1500 Suburban 6.2L	V8 379 (C)	1991 - 89	GV 004
V20 Pickup 6.2L	V8 379 (C), (J)	1987	GV 004
V20 Suburban 6.2L	V8 379 (J)	1987	GV 004
V2500 Suburban 6.2L	V8 379 (J)	1997 - 89	GV 004
V30 Pickup 6.2L	V8 379 (J)	1987	GV 004
V3500 Pickup 6.2L	V8 379 (J)	1991 - 89	GV 004
CHRYSLER			
Grand Voyager			
2.5L TD (VM HR 425 CLIEE)		1995 -	GN 007
2.5L TD LE (HR 425 CLI)		1995 - 92	GN 909
2.5L TD LE (VM HR 425 CLIEE)		1995 -	GN 007
Jeep Cherokee			
2.1L TD (Renault J8S)		1988 -	GV 642
2.1L TD Renaults J8S 814)		1994 - 87	GV 642
2.1L TD (Renault J8S 890)		1994 - 91	GV 852
2.1L TD (Renault J8S 890)		19991 - 88	GV 642
2.5L TD *VM HR 425 CLIRX)		1994 -	GN 909
Jeep Grand Cherokee			
2.5L TD (VM HR 492 / VM 425 CLIRE)		1994 -	GN 909
Jeep Wrangler			
2.1L Laredo, Sahara, Texan (6-cyl. Renault engine)		1988 -	GV 642
Voyager			
2.5L 6TD 4-cyl. (VM HR 425 CLIEE)		1995 -	GN 007
2.5L TD 40cyl. (VM HR 425 CLIEE)		1995 -	GN 007
2.5L TD ES (VM HR 492 / VM 425 CLIRE)		1995 - 92	GN 909
DODGE			
Sprinter Van	MBE600 2.7L CDI	2004 - 01	GN 003
Sprinter Cargo Van	MBE600 2.7L CDI	2004 - 01	GN 003
FORD Trucks			
ECONOLINE			
E150 1/2 Ton 6.9L	V8 421 (1)	1984	GV 835
E 250 3/4 Ton 6.9L	V8 421 (1)	1986 - 83	GV 835
E250 3/4 Ton 6.9L	V8 421 (1)	1987	GV 823
E250 3/4 Ton 7.3L	V8 444 (M)	1991 - 88	GV 823
E350 1 Ton 6.9L	V8 421 (1)	1986 - 83	GV 835
E350 1 Ton 6.9L	V8 421 (1)	1987	GV 823
E350 1 Ton 7.3L	V8 444 (M)	1994 - 88	GV 823
E350 1Ton Powerstroke	V8 444 (F)	2003 - 95	819 MJ
Excursion Powerstroke	V8 444 (F)	2003 - 00	819 MJ

Vehicle Description DISPLACEMENT	Engine	Year	BERU Glow Plug
FORD Trucks (continues)			
F59 Stripped Chassis	V8 444 (M)	1994 - 89	GV 823
F59 Stripped Chassis Powerstroke	V8 444 (F)	1996 - 95	819 MJ
PICKUP			
F150 1/2 Ton 6.9L	V8 421 (1)	1984	GV 835
F250 3/4 Ton 6.9L	V8 421 (1)	1986 - 83	GV 835
F250 3/4 Ton 6.9L	V8 421 (1)	1987	GV 823
F250 3/4 Ton 7.3L	V8 444 (M)	1994 - 87	GV 823
F250 3/4 Ton Powerstroke	V8 444 (F)	1996 - 95	819 MJ
F250 HD 3/4 Ton Powerstroke	V8 444 (F)	1997	819 MJ
F250 Super-Duty Powerstroke	V8 444 (F)	2003 - 00	819 MJ
F250 Super-Duty 4x2 Powerstroke	V8 444 (F)	1999	819 MJ
F250 Super-Duty 4x4 Powerstroke	V8 444 (F)	1999	819 MJ
F350 1 Ton 6.9L	V8 421 (1)	1986 - 83	GV 835
F350 1 Ton 7.3L	V8 421 (1)	1987	GV 823
F350 1 Ton 6.9L	V8 444 (M)	1993 - 88	GV 823
F350 1 Ton Powerstroke	V8 444 (F)	1997 - 95	819 MJ
F350 Super-Duty Powerstroke	V8 444 (F)	2003 - 00	819 MJ
F350 Super-Duty 4x2 Powerstroke	V8 444 (F)	1999	819 MJ
F350 Super-Duty 4x4 Powerstroke	V8 444 (F)	1999	819 MJ
F450 Super-Duty Powerstroke	V8 444 (F)	2003 - 95	819 MJ
F550 Super-Duty Powerstroke	V8 444 (F)	2003 - 99	819 MJ
Van E Super-Duty Powerstroke	V8 444 (F)	2003 - 96	819 MJ
Freightliner			
Sprinter -> see Dodge			
GMC			
C15/C1500			
Pickup 6.2L	V8 379 (C)	1986 - 82	GV 004
Pickup 6.2L	V8 379 (J)	1982 + 1985	GV 004
Pickup 5.7L	V8 350 (Z)	1981 - 82	GV 835
Suburban 6.2L	V8 379 (C)	1986 - 82	GV 004
Suburban 5.7L	V8 350 (Z)	1981 - 80	GV 835
C1500			
Pickup 6.5	V8 395 (F), (S)	1988	GV 004
Pickup Sierra 6.2L	V8 379 (C)	1993 - 89	GV 004
Pickup Sierra 6.5L	V8 395 (F), (S)	1997 - 94	GV 004
Pickup Sierra 6.5L	V8 395 (P)	1995	GV 004
Pickup Sierra XC 6.2L	V8 379 (C)	1993 - 89	GV 004
Pickup Sierra XC 6.5L	V8 395 (F), (S)	1997 - 94	GV 004
Pickup Sierra XC 6.5L	V8 395 (P)	1995	GV 004
Suburban 6.5L	V8 395 (F)	1999 - 94	GV 004
C25/2500			
Pickup 6.2L	V8 379 (C), (J)	1986 - 82	GV 004
Suburban 6.2L	V8 379 (C), (J)	1986 - 82	GV 004
C2500			
Pickup 6.5L	V8 395 (F)	2000 - 98	GV 004
Pickup Sierra 6.2L	V8 379 (C), (J)	1993 - 89	GV 004

Vehicle Description DISPLACEMENT	Engine	Year	BERU Glow Plug
GMC (continues)			
C2500			
Pickup Sierra 6.5L	V8 395 (F), (S)	1998 - 93	GV 004
Pickup Sierra XC 6.2L	V8 379 (C), (J)	1993 - 89	GV 004
Pickup Sierra XC 6.5L	V8 395 (F), (S)	1998 - 93	GV 004
Suburban 6.2	V8 379 (C), (J)	1993 - 92	GV 004
Suburban 6.5L	V8 395 (F)	1999 - 92	GV 004
C35/3500 Pickup 6.2L	V8 379 (J)	1986 - 82	GV 004
C3500			
Pickup 6.5L	V8 395 (F)	2000 - 98	GV 004
Pickup HD Chassis Cab 6.5L	V8 395 (F)	2002 - 01	GV 004
Sierra 6.2L	V8 395 (J)	1993 - 90	GV 004
Sierra 6.5L	V8 395 (F)	1997 - 92	GV 004
Sierrea XC 6.2L	V8 395 (J)	1993 - 90	GV 004
Sierra XC 6.5L	V8 395 (F)	1997 - 92	GV 004
G25/G2500			
Van 6.5L	V8 395 (F)	1998	GV 004
Van Cargo 6.5L	V8 395 (F)	1997	GV 004
Van Rally 6.2L	V8 379 (C)	1993 - 83	GV 004
Van Rally 6.5L	V8 395 (P)	1995 - 94	GV 004
Van Savana	V8 395 (F)	1996	GV 004
Van Vandura 6.2L	V8 379 (C)	1993 - 83	GV 004
Van Vandura 6.5L	V8 395 (P)	1995	GV 004
Van XT 6.5L	V8 395 (F)	1997	GV 004
G35/3500			
Van 6.2L	V8 379 (J)	1993 - 83	GV 004
Van 6.5L	V8 395 (Y)	1996 - 94	GV 004
Van 6.5L	V8 395 (F)	1998	GV 004
Van Rally 6.2L	V8 379 (J)	1993 - 83	GV 004
Van Rally 6.5L	V8 395 (Y)	1996 - 94	GV 004
Van Savana	V8 395 (F)	1997 - 96	GV 004
Van Vandudra 6.2L	V8 379 (J)	1993 - 83	GV 004
Van Vandura 6.5L	V8 395 (Y)	1996 - 94	GV 004
Jimmy 6.2L	V8 379 (C)	1991 - 82	GV 004
K15/1500			
Pickup 6.2L	V8 379 (C)	1986 - 82	GV 004
Suburban 6.2L	V8 379 (C)	1986 - 82	GV 004
K1500			
Pickup 6.2L	V8 379 (C)	1988	GV 004
Pickup 6.5L	V8 395 (S)	1998	GV 004
Sierra 6.2L	V8 379 (C)	1993 - 90	GV 004
Sierra 6.5L	V8 395 (P)	1995 - 94	GV 004
Sierra 6.5L	V8 395 (S)	1998 - 94	GV 004
Sierra 6.5L	V8 395 (F)	1998	GV 004
Sierra XC 6.2L	V8 379 (C)	1993 -90	GV 004
Sierra XC 6.5L	V8 395 (P), (S)	1995 - 94	GV 004
Sierra XC 6.5L	V8 395 (S), (F)	1998 - 96	GV 004
Suburban 6.5L	V8 395 (F)	1999 - 94	GV 004
K25/2500			
Pickup 6.2L	V8 379 (C), (J)	1986 - 82	GV 004
Suburban 6.2L	V8 379 (J)	1986 - 82	GV 004

Vehicle Description DISPLACEMENT	Engine	Year	BERU Glow Plug
GMC (continues)			
K2500			
Pickup 6.2L	V8 379 (C)	1988	GV 004
Pickup 6.5L	V8 395 (F)	2000 - 98	GV 004
Sierra 6.2L	V8 379 (C), (J)	1993 - 90	GV 004
Sierra 6.5L	V8 395 (F)	1997 - 94	GV 004
Sierra 6.5L	V8 395 (S), (P)	1995 - 94	GV 004
K2500			
Sierra XC 6.2L	V8 379 (C), (J)	1992 - 90	GV 004
Sierra XC 6.5L	V8 395 (F)	1997 - 92	GV 004
Sierra XC 6.5L	V8 395 (S), (P)	1995 - 94	GV 004
Suburban 6.5L	V8 395 (F)	1999 - 94	GV 004
K35/3500 Pickup 6.2L	V8 379 (J)	1986 - 82	GV 004
K3500			
Pickup 6.2L	V8 379 (J)	1983	GV 004
Pickup 6.5L	V8 395 (F)	2000 - 98	GV 004
Pickup Sierra 6.2L	V8 379 (J)	1993 - 90	GV 004
Pickup Sierra 6.5L	V8 395 (F)	1997 - 92	GV 004
Pickup Sierra XC 6.2L	V8 379 (J)	1993 - 90	GV 004
Pickup Sierra XC 6.5L	V8 395 (F)	1997 - 93	GV 004
MD Bus Chassis 6.5L	V8 395 (F)	1998 - 97	GV 004
P25/2500 Van 6.2L	V8 379 (J)	1988 - 82	GV 004
P35/3500 Van 6.2L	V8 379 (J)	1993 - 82	GV 004
P35/3500 Van 6.5L	V8 395 (Y)	1999 - 94	GV 004
P35/3500 Van 6.5L	V8 395 (F)	1999 - 97	GV 004
R1500			
Pickup 6.2L	V8 379 (C)	1987	GV 004
Suburban 6.2L	V8 379 (C)	1991 - 98	GV 004
R2500			
Pickup 6.2L	V8 379 (C)	1987	GV 004
Pickup 6.2L	V8 379 (J)	1988 - 87	GV 004
Suburban 6.2L	V8 379 (J)	1991 - 87	GV 004
R3500 Pickup 6.2L	V8 379 (J)	1991 - 87	GV 004
Savana 2500 6.5L	V8 395 (F)	2002 - 99	GV 004
Savana 3500 6.5L	V8 395 (F)	2002 - 99	GV 004
Sierra 2500 HD	V8 Duramax	2003 - 01	0.100.221.394**
Sierra 3500 HD	V8 Duramax	2003 - 01	0.100.221.394**
Silverado 2500 HD	V8 Duramax	2003 - 01	0.100.221.394**
Silverado 3500 HD	V8 Duramax	2003 - 01	0.100.221.394**
V1500			
Pickup 6.2L	V8 379 (C)	1987	GV 004
Suburban 6.2L	V8 379 (C)	1991 - 87	GV 004
V2500			
Pickup 6.2L	V8 379 (C), (J)	1987	GV 004
Suburban 6.2L	V8 379 (J)	1991 - 87	GV 004
V3500 Pickup 6.2	V8 379 (J)	1991 - 87	GV 004
Yukon 6.5L	V8 395 (S)	1997 - 94	GV 004
** availavble upon request			

Vehicle Description DISPLACEMENT	Engine	Year	BERU Glow Plug
IHC / International TRUCKS			
4000 and S2500-2600 Powerstroke	V8 445 7.3	1998 - 95	819 MJ
4000 SERIES	V8 445 7.3	1994 - 90	GV 823
S2500-2600	V8 445 7.3	1994 - 87	GV 823
S2500-2600	V8 420 6.9	1987 - 86	GV 835
8000 SERIES	V8 445 7.3	1995	
8000 SERIES	V8 445 7.3	1994 - 90	GV 823
Cargostar 6.9L	V8 421	1987 - 86	GV 835
Cargostar 7.3L	V8 445	1995 - 88	GV 823
S1600 - 2100 6.9L	V8 420 (1)	1986	GV 835
S1600 - 2100 7.3L	V8 445 CID	1995 - 87	GV 823
S2200 - 2600 6.9L	V8 420 (1)	1986	GV 835
S2200 - 2600 7.3L	V8 445 CID	1995 - 87	GV 823
MD Truck 6.9L	V8 421	1985-83	GV 835
ISUZU			
I-Mark			
1817cc	L4 1800 1.8 (G180)	1984-81	GV 749
ISUZU TRUCKS			
Pickup (2238 cc - U, S)	L4 2200 (C223)	1987-81	GV 749 (5V)* GV 946 (11V)
Trooper (2238 cc - U, S)	L4 2200 (C223)	1988	GV 749 (5V)* GV 946 (11V)
Trooper 2.3L D 4-cyl.	L4 2200 (C223)	1988	GV 749 (5V)* GV 946 (11V)
*Check owners manual for correct voltage!			
LINCOLN			
Continental, Mark			
2400cc Turbo	L4 146 2.4 (L)	1984	GV 636
MAZDA			
626			
1998cc	(2200D)	1985-84	GV 705
MERCEDES-BENZ			
190D (W201)			
190 D 2.5l	602.911	1989 - 85	GV 603
190 D 2.5l	602.911	1992 - 85	GN 858
190 D, TD 2.5L	602.961	1989 - 88	GV 603
190 D, TD 2.5L	602.961	1992 - 89	GV 858
200D (W115) 2.0 D/8	615.913	1975 - 69	GD 382
200 D (W123) 2.0D	615.940	1980 - 75	GD 382
200 D (W123) 2.0D	615.940	1985 - 80	GV 603
200 D (W124) 2.0 D, TD	601.912	1989 - 84	GV 603

Vehicle Description DISPLACEMENT	Engine	Year	BERU Glow Plug
MERCEDES-BENZ (continues)			
200 D (W124) 2.0 D, TD	601.912	1993 - 89	GN 858
220D (W115) 2.2 D/8	615.912	1976 - 73	GD 382
220D (W123) 2.2 D/8	615.912	1978 - 75	GD 382
240D (W115) 2.4L	616.912	1985 - 80	GD 382
240D (W115) 3.0L	617.910	1975 - 74	GD 382
240D (W123) 2.4L	616.912	1984 - 80	GV 603
240 D (W123) 2.4L	616.912	1980 - 76	GD 382
240D, TD (W123) 2.4L	616.912	1985 - 80	GV 603
300 CD, D (W123) 3.0L	617A	1981 - 80	GV 603
300 D, TD (W123) 3.0L	617.912	1980 - 78	GD 382
300 D, TD (W123) 3.0L	617.912	1985 - 80	GV 603
300 TD (W123) 3.0L	617.952	1985 - 80	GV 603
300 D (W124) 3.0L	603.912	1989 - 84	GV 603
300 D (W124) 3.0L	603.912	1993 - 88	GN 858
300 D 4-Matic (W124) 3.0L	603.913	1989 - 86	GV 603
300 D 4-Matic (W124) 3.0L	603.913	1993 - 89	GN 858
300 TD (W124) 3.0L	603.960	1989 - 84	GV 603
300 TD (W124) 3.0L	603.960	1993 - 84	GN 858
300 TD (W124) 3.0L	603.960	1988	GV 603
300 TD (W124) 3.0L	603.960	1993 - 89	GN 858
300 D 4-Matic (W124) 3.0L	603.963	1989 - 86	GV 603
300 D 4-Matic (W124) 3.0L	603.963	1993 - 89	GN 858
300 SDL, TD (W126) 3.0L	603.961	1987 - 86	GV 603
300 SD, TD (W126) 3.0L	617.951	1985 - 80	GV 603
300 SD (W140) 3.0L	603.971	1992	GN 858
300 SD (W140) 3.5L	603.971	1992/93	GN 858
350 SD, SDL, TD (W126) 3.5L	903.970	1990 - 91	GN 858
350 SD, SDL (W126) 3.5L	903.	1991 - 89	GN 858
E300 D, TD (W124) 3.0L	606.910	1995 - 93	GN 860
E300 D, TD (W124) 3.0L	606.910	1995/96	GN 948
E300 TD 4-Matic (W124) 3.0L	603.960	1995 - 93	GN 858
E300 D (W210)	606.912	1995 -	GN 948
E300 TD (W210)	606.962	1995 -	GN 948
S350 TD (W140) 3.5L	603.971	1995 - 93	GN 858
NISSAN			
Maxima (LD 28)	L6 2800 2.8	1983 - 81	GV 888

Vehicle Description	Engine	Year	BERU Glow Plug
OLDSMOBILE			
Cutlass Ciera Brougham Cutlass Ciera LS Cutlass Ciera Cruiser	V6 260 (T)	1985-84	996 MJ
Cutlass Supreme Brough. Delta 88 Royale Delta 88 Royale Brough. Delta 88 Roy. Brough. LS Toronado Brougham	V8 350 (N)	1985-84	996 MJ
98 Regency 98 Regency Brougham Custom Cruiser Cutlass Supreme Brougham Delta 88 Delta 88 Royale Delta 88 Royale Brougham Toronado Brougham	V8 350 (N)	1983 - 82	GV 835
Cutlass Ciera Cutlass Ciera Brougham Cutlass Ciera LS Cutlass Supreme Brougham	V6 260 (T), (V)	1983 - 82	GV 835
Cutlass Cutlass Salon Cutlass Salon Brougham Delta 88 Royale Brougham	V8 350 (N)	1980	GV 835
98 98 Regency Custom Cruiser Cutlass Brougham Cutlass Calais Cutlass Cruiser Cutlass Cruiser Brougham Cutlass LS Cutlass Supreme Cutlass Supreme Brougham Delta 88 Delta 88 Royale Toronoado Brougham	V8 350 (N)	1981 - 80	GV 835
98 98 Regebct Custom Cruiser Cutlass Cruiser Cutlass Supreme Cutlass Supreme Brougham Delta 88 Delta 88 Royale Toronado Brougham	5.7L V8 350 (N)	1979	GV 835
Custom Cruiser Cutlass Cruiser Cutlass Supreme Brough. Cutlass Supreme Delta 88 Royale Delta 88	V8 350 (N) Diesel	1979	996 MJ

Vehicle Description DISPLACEMENT	Engine	Year	BERU Glow Plug
PEUGEOT			
504			
2304cc	L4 2300 2.3 (2)	1983-81	GV 636
2304cc	L4 2300 2.3 (XD2)	1980-77	GV 636
504D			
2304cc		1980	GV 636
2304cc		1979	GV 636
2304cc		1978-77	GV 108
2304cc		1976-74	GV 108
505			
2498cc Turbo S		1987	GV 636
2498cc Turbo S		1986-85	GV 636
2498cc Turbo S		1985	GV 636
505D			
2304cc		1984	GV 636
2304cc Turbo		1984-82	GV 636
604			
2300cc	L4 2300 2.3 (4)	1979-83	GV 636
PONTIAC			
Acadian 1.8L	L4 111 (D)	1981	GV 749
Bonneville Brougham Bonneville LE Bonneville	V8 350 (N)	1984	996 MJ
Bonneville Bonneville Brougham	V8 350 (N)	198.3 - 82	GV 835
Grand Prix Brougham Grand Prix LE Grand Prix	V8 350 (N)	1984	996 MJ
Grand Prix Grand Prix Brougham Grand Prix LJ	V8 350 (N)	1983 - 81	GV 835
Le Mans	V8 350 (N)	1981	GV 835
Parisienne Parisienne Brougham	V8 350 (N)	1985-84	996 MJ
Parisienne Parisienne Brougham	V8 350 (N)	1983 - 82	GV 835
6000, 6000 LE	V6 260 CID (T)	1985-84	996 MJ
RENAULT			
Winnebago 2.1L	J8S 232 / J8S 234	1987 - 82	GV 642
ROVER			
Land Rover			
90, 110 2.3L		1990 - 83	GV 602
Defender (Gemini 1)		1994 - 89	GV 783
2.5L TDI Defener (23L), (19L)		1995 -	GV 783
2.5L TDI Discovery (200 Gemini 1)		1994 - 89	GV 783

Vehicle Description DISPLACEMENT	Engine	Year		BERU Glow Plug
ROVER (continues)				
Range Rover				
2.5L (Gemini 1)		1989 -		GV 783
2.5L DT/DSE (BMW M51-025)		1994 -		GV 719
2.5L TD Vogue (VM HR=492/ VM 245 SLIRR)		1993-		GN 909
2.5L TDI (BMW 5TC 2000 N)		1995 -		GV 719
2.5L TDI (ETC 9091 N)		1994 - 86		GV 783
TOYOTA				
Camry				
1.9L	2C-TCL	1986		GV 886
1.8L	1C-TLC	1985-84		GV 886
Corolla				
1.8	1C-LC	1985-84		GV 886
TOYOTA TRUCKS				
Land Cruiser				
	L4 2400 (2LT)	1985 - 1989		GV 001
Pickup				
2446cc	L4 2400 (2L)	1985-84		GV 894
2188cc	L4 2200 (L)	1983-81		GV 894
VOLKSWAGEN				
New Beetle				
1.9L TDI	ALH	1998 - 03	Engine Coolant	GN 855 GN 928
Dasher				
1588cc	CR	1981		GN 857
1471cc	CK	1980-79		GN 857
Golf				
1588cc	ME	1985-92		GN 857
Golf III - TDI	AHU*	8/96 - 8/98	Engine Coolant	GN 855 GN 928
Golf IV - TDI	ALH	12/98 - 7/03	Engine Coolant	GN 855 GN 928
Golf V - TDI	BEW, BHW	2005 - 03		N/A
Jetta				
Jetta	ME	1985 - 92		GN 857
Jetta Turbo	MF	1985 - 92		GN 857
Jetta	CR, JK	1982 - 84		GN 857
Jetta Turbo	CY	1983 - 84		GN 857
Jetta III - TDI	AHU*	8/96 - 8/98	Engine Coolant	GN 855 GN 928
Jetta IV - TDI	ALH	12/98 - 7/03	Engine Coolant	GN 855 GN 928
Jetta V - TDI	BEW, BHW	2005 - 03		N/A
Jetta Wagon	BEW, BHW	2005 - 02		N/A
Passat				
Passat TDI	1Z	2/96 - 7/96	Engine Coolant	GN 855 GN 928
Passat TDI	AHU*	7/96 - 3/97	Engine Coolant	GN 855 GN 928
Passat	BEW, BHW	2005 - 03		N/A
Passat Syncro 4-Motion	BEW, BHW	2005 - 03		N/A

Vehicle Description DISPLACEMENT	Engine	Year	BERU Glow Plug
VOLKSWAGEN (continues)			
Phaeton			
Phaeton (3D2)	AJS	11/02 ->	GN 046
Quantum			
1588cc Turbo	MD, CY	1982 - 85	GN 857
Quantum	JK	1982 - 85	GN 857
Quantum	CR	1982 - 85	GN 857
Rabbit			
1588cc	CR, JK	1981 - 1984	GN 857
1471cc	CK	1980-77	GN 857
*AHU = CANADA ONLY!			
VOLKSWAGEN TRUCKS / SUV			
Eurovan			
2.1 L	AAB	1994 - 92	GN 857
Pickup			
1588cc	JK	1983	GN 857
1588cc	CR	1982-81	GN 857
Touareg			
Touareg TDI	2.5L 5cyl	01/03 ->	GN 046
Touareg TDI	5.0L 10cyl	10/02 ->	GN 046
Vanagon			
VANAGON	ME	1985	GN 857
VANAGON	JK	1984	GN 857
1588cc	CR	1983	GN 857
1588cc	CR, CS	1982	GN 857
VOLVO			
DL, GL, 240 Series, 760			
2383cc (D24)	D24	1981 - 85	GN 857
260			
2383	D24	1982	GN 857
740 Turbo	D24T	1986	GN 857
760 Turbo	D24T	1983 - 85	GN 857

CROSS REFERENCE



Cross Reference	BERU TYPE	Cross Reference	BERU TYPE
AC - Delco		BOSCH (continues)	
8 G	GV 835	80019 / 0 250 202 054	GV 894
11G	GV 004	80020 / 0 250 202 056	N/A
12 G	996 MJ	80021 / 0 250 202 073	GV 001
15 G	GV 003	80023 / 0 250 202 250	N/A
28 G	GN 857	80024 / 0 250 202 251	GV 835
29 G	GD 382	80025 / 0 250 202 252	995 MJ
30G	GV 603	80026 / 0 250 202 253	996 MJ
31 G	GN 857	80027 / 0 250 202 254	GV 823
32 G	GV 823	80028 / ?	GN 928
33 G	GV 749	80029 / F00E200012	GV 004
37 G	819 MJ	80030 / 0 250 202 088	819 MJ
60 G	GV 004	80031 / 0 250 201 041	GN 858
		80033 / 0 250 202 127	819 MJ
		80034 / 0 250 202 126	GV 004
AUTOLITE		CHAMPION	
1101	GN 857	CH 28	GD 368 / GD 214
1102	GD 382	CH 60	GV 689
1103	GV 603	CH 61	GD 382 / GD 348
1104	601 MJ -> GN 857	CH 63	GV 604
1105	995 MJ	CH 68	GV 727
1107	GV 835	CH 69	GN 857
1108	GV 823	CH 77	995 MJ
1109	996 MJ	CH 80	GV 835
1110	GV 004	CH 84	GV 823
1111	819 MJ	CH 88	GV 636
		CH 160	GN 857
		CH 171	GN 855
BMW		DODGE	
12 23 1 288 245	GV 636	MD014997	GV 898
BOSCH		FORD	
0 330 402 505	GR 69	F2TZ-12A-342-A	GV 823
0 330 402 506	GR 69	E43Z-12A342-A	GV 705
0 330 402 515	GR 70		
0 330 402 516	GR 70	GENERAL MOTORS	
0 333 402 507	GR 71	56 13680	GV 835
0 333 402 508	GR 71	56 13738	995 MJ
0 330 402 512	GR 001	56 13826	996 MJ
80003 / 0 250 001 016	GD 382	56 13939	
80005 / 0 250 200 055	GV 108	56 14017	GV 003
80006 / 0 250 201 001	GV 603	56 14216	GN 857
80007 / 0 250 201 008	GV 636	56 14217	GD 382
80008 / 0 250 201 019	GN 909	56 14218	GV 603
80009 / 0 250 201 026	GN 858	56 14219	GV 857
80010 / 0 250 201 032	GN 857	56 14220	GV 823
80011 / 0 250 201 035	N/A	56 14221	GV 749
80012 / 0 250 201 022	GN 855	1256 3554	GV 004
80013 / 0 250 201 038	GN 948	88 900589	819 MJ
80014 / 0 250 202 005	GV 685		
80015 / 0 250 202 007	GV 705		
80016 / 0 250 202 008	GV 749		
80017 / 0 250 202 013	GV 888		
80018 / 0 250 202 051	GV 886		

ISUZU

8-94221-719-3	GV 749
8-94255-588-0	GV 749
8-94241-449-0	GV 749
8-94241-449-1	GV 749
8-94249-692-1	GV 749
8-94439-218-0	GV 749
8-9440-2303-0	GV 945
8-9722-6202-0	0.100.221.394**

** available upon request

LUCAS

DS 001	GV 603
DS 003	GV 642
DS 006	GV 602/GV 636
DS 040	GV 636
DS 090A	GV 835
DS 091A	995 MJ
DS 092A	GV 823
DS 093A	996 MJ
DS 095A	819 MJ
DS 094	GV 004
DS 101	GD 382/GD 348
DS 122	GV 636
HDS 216	GV 603
HDS 218	GV 636
HDS 221	GV 602
HDS 296	GV 691
HDS 316	GD 382
HDS 337	GV 636
HDS 342	GN 855
HDS 343	GN 857
HDS 802	0 100 221 394

MAZDA

S501-18-140A	GV 705
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MERCEDES-BENZ

001 159 00 01	GN 858
001 159 15 01	GN 860
001 159 17 01	GN 858
001 159 20 01	GN 948
001 159 21 01	GN 948
001 159 28 01	GN 003
001 159 37 01	GN 003
001 159 38 01	GN 003
001 159 42 01	GN 003
001 159 48 01	GN 003
001 159 49 01	GN 003
001 159 60 01 or 000	GD 382
001 159 83 01 or 000	GV 603
001 159 96 01	GV 691
001 159 99 01	GV 691
000 159 77 01	GV 636

ISKRA

11.720.711	835 MJ
11.720.712	995 MJ
11.720.713	823 MJ
11.721.715	819 MJ
11.721.716	819 MJ

MITSUBISHI

MD 014997	GV 898
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MOTORCRAFT

ZD1	GV 835
ZD-1A	GV 835
ZD8	GV 823
ZD-10	819 MJ
ZD-11	819 MJ
EZD 2	GV 602
EZD 5	GV 636
EZD 10	GN 857
EZD 11	GV 603
EZD 15	GV 602
EZD 17	GD 382
EZD 27	GN 857
EZD 28	GV 602
EZD 33	GN 855

NISSAN

11065-W2500	GV 888
11065-16A05	GV 685

TOYOTA

19850-54050	GV 894
19850-64010	GV 886
19850-64070	GV 001
19850-54071	GV 001

VOLKSWAGEN

N 101 401 03	GN 855
N 101 401 05	GN 855
N 102 130 01	GN 857
N 102 130 02	GN 857
N 103 021 01	GN 928
N 103 021 02	GN 928
N 105 792 01	GN 046
N 105 792 02	GN 046
N 105 916 01	N/A

VOLVO

1257141	GN 857
1267889	GN 857

BERU Order No	BERU Type
0 100 101 308	GD 382
0 100 220 113	GV 888
0 100 221 106	GV 602
0 100 221 107	GV 603
0 100 221 133	GV 636
0 100 221 154	GV 705
0 100 221 186	GV 749
0 100 221 394	upon request
0 100 222 101	GV 894
0 100 222 302	GV 108
0 100 226 138	819 MJ
0 100 226 173	GN 857
0 100 226 199	GN 928
0 100 226 227	GN 855
0 100 226 234	GN 858
0 100 226 303	995 MJ
0 100 226 304	996 MJ
0 100 226 379	GN 003
0 100 226 482	GN 046
0 100 227 101	GV 823
0 100 271 102	GV 835
0 100 800 002	GV 003

GLOW PLUG RELAIS





The BERU range of glow duration relais - precisely tailored to the requirements of the market.

The diesel cold-starting, using pre- and post-heating, is only possible with the correctly functioning glow plug control unit. The glow duration control units, that have been damaged by water, coil overheating, an accident or improper treatment (e.g. during disassembly) must be replaced immediately.

BERU Type	BERU Reference	Application	Cyl.	V	OE / Competitor #	Pre-(sec)	Post-Heating (sec)
GR 001	0 201 010 001	Volkswagen / Audi (08/80 - 08.91)	4-5	12	171 911 261 A, B VW 0 333 402 512 Bosch	5.4	0
GR 031	0 201 010 031	Volkswagen / Audi (09/91 ->)	4-6	12	443 911 261 VW HDC 104 Lucas	5.7	180
GR 032	0 201 010 032	Flame Start System FA20 (24V)		24		20	180
GR 033	0 201 010 033	Ford, Opel, Vauxhall	4	12	HDC 108 Lucas	5.1	180
GR 034	0 201 010 034	Citroen, Peugeot,	4	12		4.6	180
GR 039	0 201 010 039	Flame Start System FA 10/1 (12V)		12		35	180
GR 049	0 201 010 049	Mercedes, Ssang Yong	4-5	12	0 002 545 42 32 Bosch 0 002 545 43 32 Bosch	3.8	180
GR 054	0 210 010 054	Citroen, Peugeot,	4	12	96 165 823 80	3.3	13
GR 059	0 210 010 059	Citroen, Peugeot, Talbot	4	12	95 534 787	12.6	0
GR 061	0 210 010 061	Renault	4	12	77 00 866 727	8.4	190
GR 062	0 210 010 062	Renault	4	12	77 00 863 626	8.5	210
GR 063	0 210 010 063	Renault	4	12	77 00 870 715	8.5	180
GR 064	0 210 010 064	Ford, Opel	4	12	90 040 992 Ford 12 38 537 Opel	5	0
GR 065	0 210 010 065	Citroen, Peugeot, Talbot, Fiat, Seat, Renault	4	12	92 515 867 80 Renault	6.8	0
GR 066	0 210 010 066	Alfa Romeo, Renault	4	12	77 00 757 776 Renault	8.1	0
GR 067	0 210 010 067	Renault	4	12	77 00 790 579 Renault 77 00 856 789 Renault	8.5	180
GR 69	0 201 010 069	Mercedes, Kaessbohrer	4	12	001 545 97 32 MB 002 545 05 32 MB 737 515 910 00 Kaessbohrer 0 330 402 505 Bosch 0 330 402 506 Bosch HDC 116 Lucas	5.3	0
GR 70	0 201 010 070	Mercedes	4	12	002 545 42 32 MB 002 545 43 32 MB 0 330 402 515 Bosch 0 330 402 516 Bosch HDC 118 Lucas	5	0

GLOW PLUG RELAIS

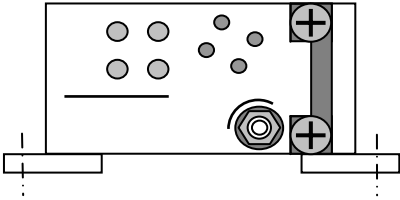


BERU Type	BERU Reference	Application	Cyl.	V	OE / Competitor #	Pre-(sec)	Post-Heating (sec)
GR 71	0 201 010 071	Mercedes, Kaessbohrer	5	12	001 545 98 32 MB 002 545 06 32 MB 737 515 000 Kaessbohrer 737 515 500 0 Kaessbohrer 0 330 402 507 Bosch 0 330 402 508 Bosch HDC 117 Lucas	5	0
GR 72	0 201 010 072	Mercedes	6	12	005 545 45 32 MB HDC 115 Lucas	5	0
GR 73	0 201 010 073	Mercedes	4	12	007 545 98 32	12.9	18.1
GR 74	0 201 010 074	Mercedes	4	12	008 545 00 32	12.9	18.1
GR 75	0 201 010 075	Mercedes, Steyr-Puch	5	12	007 545 99 32 MB 754 599 32 Steyr-Puch	13	18
GR 76	0 201 010 076	Mercedes, Steyr-Puch	6	12	007 545 16 32 MB 754 516 32 Steyr-Puch	11.5	16.5

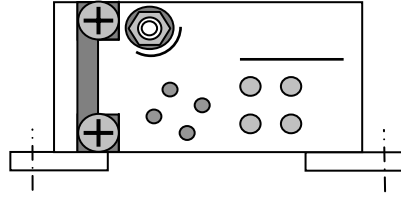
RELAIS CONNECTIONS



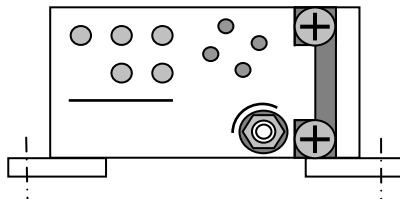
GR 069



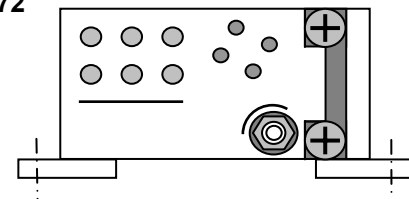
GR 070



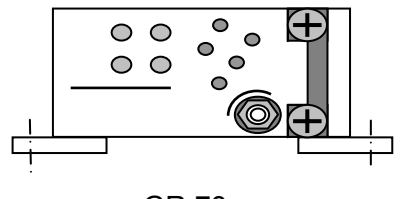
GR 071



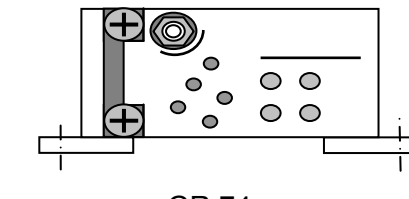
GR 072



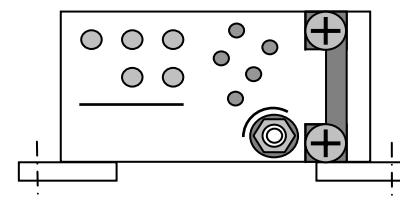
GR 073



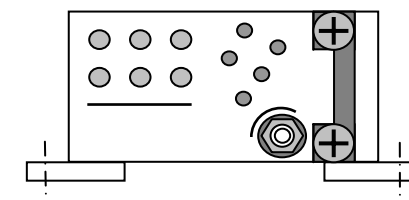
GR 074



GR 075



GR 076



Environmentally friendly SR-Set's



Quick-Start Sets for Diesel Passenger Cars

BERU SR-Sets most modern ignition technology for retro-fitting with a kit to older vehicles.

Environmentally friendly ignition concept for diesel fueled vehicles. Short pre-heating periods of 3 to 7 seconds and post heating for up to 180 seconds. Diesel fuel burns more efficiently when it is preheated during the warm-up phase, which also helps minimizing noise. Smoke levels are reduced by 40% while fume emissions decrease and the engine's life span increases.

BERU Type	BERU Reference	Contains	Application
SR-Set 002	0 120 000 002	4 x GV 626 1 connection Cable	Mercedes (Type W 115) for all models with pull switch and heater warning lights as preheating control
SR-Set 028	0 120 000 028	4 x GN 857 1 x GR 031	Audi 80 -7/91 w/o GZA-pre-heating only VW Golf/Jetta/Passat/Bus Diesel - 7/91 w/o GZA pre-heating only 5 or 6 cyl. models additional glow plug's) required!
SR-Set 030	0 120 000 030	4 x GN 918 1 x GR 033	Ford Fiesta, Escort, Orion 1.6 ltr. all models Escort, Orion 1.8 ltr. all models
SR-Set 031	0 120 000 031	4 x GN 954 1 x GR 033	Opel - Vauxhall (not for ISUZU engines!)
SR-Set 032	0 120 000 032	4 x GN 909 1 x GR 034	Peugeot - Fiat - Horizon - Solara - Citroen
SR-Set 039	0 120 000 039	4 x GN 909 1 x GR 049	Mercedes for 5 cyl One additional plug is required!
SR-Set 040	0 120 000 040	4 x GN 858 1 x GR 049	Mercedes - Ssang Yong

Cross Reference

BERU	Bosch	OE#
SR-Set 002	0 250 201 901	MB W115 200D/8, 220D/8, 240D/8 up to November 77
SR-Set 028	0 250 201 902	028 998 019
SR-Set 028	0 250 201 933	
SR-Set 030	0 250 201 951	
SR-Set 031	0 250 201 950	171 911 261 D, E
SR-Set 032	0 250 201 952	
SR-Set 039	0 250 201 953	MB W123D, W126D, W 201D up to January 1989 G460/461 D 01/89 207D, 209D,307D,309D, 407D, 409D, 507D, Sprinter 212D, 312D, 412D
SR-Set 040	0 250 201 954	MB W124D (2-valve), W201D, G460/461D February 1989 -> C200D, 208D, 210D, 308D, 310D, 406D, 410D, 508D, Sprinter 208D, 308D,408D, Vito 108D, 110D,V230TD, Ssang Yong Musso all models

SR-Set's Installation Information



INSTALLATION Instructions

Environmental up-grade kit for Mercedes Benz Diesel

ONLY for Type W115

Mercedes 200/D8, 220/D8, 240D up to Novmber 1977

(Models with pull switch and heating sensor as pre-heating control!)

BERU Type **SR 002**
Reference: 0 120 00 002

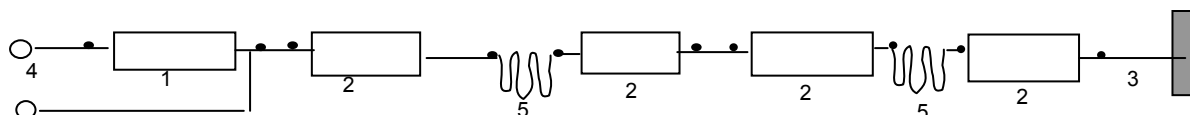
Consists of	4 Glow Plugs (SR-10)	GV 626	0 100 221 311
	1 Connection cable	VK 150-66	0 301 241 002

For vehicles 200 D/8, 220 D/8 and 240 D. The resistance bars between the glow plugs and cylinders 1 and 2, as well as 3 and 4, and the resistance bars between cylinder 2 and 3 are no longer needed. They are replaced with the connection cable VK 150-66.

Electrical control

Existing unit with open coil heater type glow plugs GD 382 (series connection)

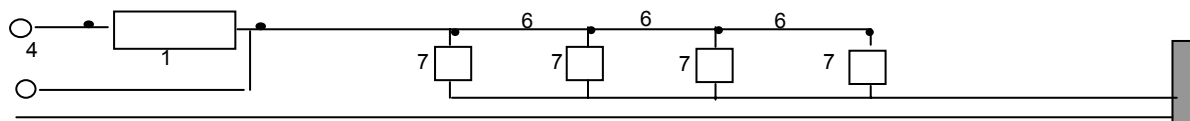
- 1 Glow controller KOBS 065/52
- 2 Glow Plugs GD 382
- 3 Ground cable has to be disconnected from the pre-glow starter switch
- 4 Pre-Glow starter switch
- 5 Resistance bars WSD 20/52/10 or WSD 20/52/10-1



Modification to self regulating glow plugs SR-10

Order number 0 100 221 311 (GV 626) parallel connection

- 1 Glow Controller KOBD 065/52
- 4 from the pre-glow starter switch
- 6 Connection cable VK 150-66
- 7 SR-10 Glow Plugs GV 626



ATTENTION! Please make sure that the connection cable is mounted as it was priot to the modification!



INSTALLATION Instructions

Environmental up-grade kit for Mercedes Benz Diesel (W126 / W123 / W201)

BERU Type **SR 039**
Reference: 0 120 000 039

Consists of	4 Glow Plugs	GN 909	0 100 226 186
	1 Relais	GR 049	0 201 010 049

Disconnect the battery-ground cable

Disconnect the connecting leads to the glow plugs, take the glow plugs out and replace with the included glow plugs.

Torque: 15-25 Nm!

Install the connecting leads as they were before, fasten with wave washers and the connection nut.

Torque: 3 Nm!

Disconnect the pre-glow relay (pull-off the 2 compact-connectors, and disconnect the positive lead).

Install the new BERU Glow-time relay and reconnect the electrical connections.

In some vehicles the controller unit is mounted in the opposite direction due to the mounting location. In this case, please unscrew the 4 phillips head screws, remove the board from the housing, rotate it by 180 degrees, reinsert the board into the housing, and reinstall the screws.

Reconnect battery-ground cable. Now your pre- and post-glow system is ready.

Pre-glow time: 2 – 25 seconds

Ready to Start: 20 – 55 seconds

Post-glow Time 150 – 210 seconds

For vehicles with 5-cylinders, use one additional glow plug.

SR-Set Application



MODELL	Type	L	Year	Engine	Cyl	OE-Relais Pre-glow	SR-SET	Glow Plug in SR-Set	Relais in SR-Set
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SR-Set 002**Mercedes**

200 (Type 115)	2,0 D/8	2,0	05.69-01.76	OM 615.913	4		SR 002	GV 626	-
220 (Type 115)	2,2 D/8	2,2	07.73-01.76	OM 615.912	4		SR 002	GV 626	-
240 (Type 115)	2,4 D/8	2,4	07.73-01.76	OM 616.916	4		SR 002	GV 626	-

SR-Set 028**Audi**

Audi 80	1,6 D	1,6	08.80-07.82	CR	4		SR 028	GN 857	GR 031
Audi 80	1,6 D	1,6	08.82-07.89	JK	4		SR 028	GN 857	GR 031
Audi 80	1,6 TD	1,6	02.82-03.87	CY	4		SR 028	GN 857	GR 031
Audi 80	1,6 TD	1,6	04.88-07.90	RA	4		SR 028	GN 857	GR 031
Audi 80	1,6 TD	1,6	04.89-12.91	SB	4		SR 028	GN 857	GR 031
Audi 80	1,9 D	1,9	08.89-12.91	1Y	4		SR 028	GN 857	GR 031
Audi 90	1,6 TD	1,6	10.84-03.87	CY	4		SR 028	GN 857	GR 031
Audi 90	1,6 TD	1,6	04.88-07.90	RA	4		SR 028	GN 857	GR 031
Audi 90	1,6 TD	1,6	04.89-12.91	SB	4		SR 028	GN 857	GR 031
Audi 100	2,0 TD, Av	2,0	11.81-12.87	DE	5		SR 028	GN 857	GR 031
Audi 100	2,0 TD	2,0	03.88-12.90	NC	5		SR 028	GN 857	GR 031
Audi 100	2,4 D	2,4	08.89-12.90	3D	5		SR 028	GN 857	GR 031

Volkswagen

Golf I	1,5 D	1,5	08.76-07.80	CK	4		SR 028	GN 857	GR 031
Golf I	1,6 D	1,6	08.80-07.82	CR	4		SR 028	GN 857	GR 031
Golf I	1,6 D	1,6	08.82-12.84	JK	4		SR 028	GN 857	GR 031
Golf I	1,6 TD	1,6	03.82-12.83	CY	4		SR 028	GN 857	GR 031
Golf II	1,6 D	1,6	05.88-07.92	ME	4		SR 028	GN 857	GR 031
Golf II	1,6 D	1,6	08.82-12.84	JK	4		SR 028	GN 857	GR 031
Golf II	1,6 D	1,6	08.83-10.91	JP	4		SR 028	GN 857	GR 031
Golf II	1,6 D	1,6	08.89-07.92	1V	4		SR 028	GN 857	GR 031
Golf II	1,6 TD	1,6	05.88-10.91	MF	4		SR 028	GN 857	GR 031
Golf II	1,6 TD	1,6	08.83-10.91	JR	4		SR 028	GN 857	GR 031
Golf II	1,6 TD	1,6	04.89-02.90	RA	4		SR 028	GN 857	GR 031
Golf II	1,6 TD	1,6	08.89-10.91	SB	4		SR 028	GN 857	GR 031
Jetta	1,6 D	1,6	08.80-02.84	CR	4		SR 028	GN 857	GR 031
Jetta	1,6 D	1,6	08.82-02.84	JK	4		SR 028	GN 857	GR 031
Jetta	1,6 D	1,6	12.83-10.91	JP	4		SR 028	GN 857	GR 031
Jetta	1,6 D	1,6	05.88-07.92	ME	4		SR 028	GN 857	GR 031
Jetta	1,6 D	1,6	08.89-07.92	1V	4		SR 028	GN 857	GR 031
Jetta	1,6 TD	1,6	08.82-02.84	CY	4		SR 028	GN 857	GR 031
Jetta	1,6 TD	1,6	12.83-10.91	JR	4		SR 028	GN 857	GR 031
Jetta	1,6 TD	1,6	05.88-10.91	MF	4		SR 028	GN 857	GR 031
Jetta	1,6 TD	1,6	04.89-02.90	RA	4		SR 028	GN 857	GR 031
Jetta	1,6 TD	1,6	08.89-10.91	SB	4		SR 028	GN 857	GR 031
Passat	1,5 D	1,5	08.77-07.80	CK	4		SR 028	GN 857	GR 031
Passat	1,6 D	1,6	08.80-07.82	CR	4		SR 028	GN 857	GR 031
Passat	1,6 D	1,6	08.81-03.88	JK	4		SR 028	GN 857	GR 031
Passat	1,6 TD	1,6	12.81-03.88	CY	4		SR 028	GN 857	GR 031
Passat	1,6 TD	1,6	08.88-07.89	RA	4		SR 028	GN 857	GR 031
Passat	1,6 TD	1,6	08.89-10.93	SB	4		SR 028	GN 857	GR 031

MODELL	Type	L	Year	Engine	Cyl	OE-Relais Pre-glow	SR-SET	Glow Plug in SR-Set	Relais in SR-Set
SR-Set 039									
Mercedes									
190 (Type 201)	2,0 D	2,0	03.83-01.89	OM 601.911	4	GR 070	SR 039	GN 909	GR 049
190 (Type 201)	2,5 D	2,5	04.85-01.89	OM 602.911	5	GR 071	SR 039	GN 909	GR 049
190 (Type 201)	2,5 D, TD	2,5	02.88-01.89	OM 602.961	5		SR 039	GN 909	GR 049
200 (Type 123)	2,0 D	2,0	08.80-11.85	OM 615.940	4	GR 069	SR 039	GN 909	GR 049
200 (Type 124)	2,0 D, TD	2,0	12.84-01.89	OM 601.912	4	GR 069 GR 070	SR 039	GN 909	GR 049
240 (Type 123)	2,4 D	2,4	08.80-11.84	OM 616.912	4	GR 069	SR 039	GN 909	GR 049
240 (Type 123)	2,4 D, TD	2,4	08.80-11.85	OM 616.912	4	GR 069	SR 039	GN 909	GR 049
240 (Type 460)	2,4 GD	2,4	08.80-08.87	OM 616.936	4	GR 069	SR 039	GN 909	GR 049
250 (Type 124)	2,5 D, TD	2,5	04.85-01.89	OM 602.912	5	GR 071	SR 039	GN 909	GR 049
250 (Type 460)	2,5 GD	2,5	09.87-01.89	OM 602.930	5	GR 071	SR 039	GN 909	GR 049
300 (Type 123)	3,0 CD, D	3,0	08.80-08.81	OM 617 A	5		SR 039	GN 909	GR 049
300 (Type 123)	3,0 D, TD	3,0	08.80-11.85	OM 617.912	5	GR 071	SR 039	GN 909	GR 049
300 (Type 123)	3,0 TD	3,0	10.80-11.85	OM 617.952	5	GR 071	SR 039	GN 909	GR 049
300 (Type 126)	3,0 SD TD	3,0	08.80-10.85	OM 617.951	5	GR 071	SR 039	GN 909	GR 049
300 (Type 460)	3,0 GD	3,0	08.80-01.89	OM 617.931	5	GR 071	SR 039	GN 909	GR 049
	207 D	2,4	09.82-09.88	OM 616.937, 939	4	GR 069	SR 039	GN 909	GR 049
	209 D	3,0	04.82-09.88	OM 617.913	5	GR 071	SR 039	GN 909	GR 049
	307 D	2,4	09.82-01.89	OM 616.937, 939	4	GR 069	SR 039	GN 909	GR 049
	307 D	2,4	02.89-09.88	OM 616.937, 939	4		SR 039	GN 909	GR 049
	309 D	3,0	04.82-09.88	OM 617.913	5	GR 071	SR 039	GN 909	GR 049
	407 D	2,4	07.81-09.88	OM 616.910	4	GR 069	SR 039	GN 909	GR 049
	409 D	3,0	04.82-08.88	OM 617.913	5	GR 071	SR 039	GN 909	GR 049
	507 D	2,4	04.82-03.86	OM 616.914	4		SR 039	GN 909	GR 049
	507 D	2,4	04.86-04.89	OM 616.914	4	GR 069	SR 039	GN 909	GR 049
Sprinter	2,9 212 D	2,9	02.95-	OM 602.980.10 D	5	GR 049	SR 039	GN 909	GR 049
Sprinter	2,9 212 D	2,9	02.95-	OM 602.980.12 D	5	GR 049	SR 039	GN 909	GR 049
Sprinter	2,9 312 D	2,9	04.95-	OM 602.980.12 D	5	GR 049	SR 039	GN 909	GR 049
Sprinter	2,9 312 D	2,9	04.95-	OM 602.980.10 D	5	GR 049	SR 039	GN 909	GR 049
Sprinter	2,9 412 D	2,9	04.95-	OM 602.980.12 D	5	GR 049	SR 039	GN 909	GR 049
Sprinter	2,9 412 D	2,9	04.95-	OM 602.98.10 D	5	GR 049	SR 039	GN 909	GR 049
190 (Type 201)	2,5 D	2,5	04.85-01.89	OM 602.911	5	GR 071	SR 039	GN 909	GR 049
190 (Type 201)	2,5 D, TD	2,5	02.88-01.89	OM 602.961	5		SR 039	GN 909	GR 049

SR-Set Application



MODELL	Type	L	Year	Engine	Cyl	OE-Relais Pre-glow	SR-SET	Glow Plug in SR-Set	Relais in SR-Set
SR-Set 040									
Mercedes									
C 200 (Type 202)	2,0 D	2,0	07.93-05.00	OM 601.913	4	GR 049	SR 040	GN 858	GR 049
G 290 (Type 461)	2,9 D	2,9	08.93-10.94	OM 602.942/947	5	GR 049	SR 040	GN 858	GR 049
V 230	2,3 TD	2,3	09.96-	OM 601.970	4	GR 049	SR 040	GN 858	GR 049
Vito	108 D	2,3	02.96-	OM 601.942	4	GR 049	SR 040	GN 858	GR 049
Vito	110 TD	2,3	02.96-	OM 601.970	4	GR 049	SR 040	GN 858	GR 049
190 (Type 201)	2,0 D	2,0	02.89-05.93	OM 601.911	4	GR 074	SR 040	GN 858	GR 049
190 (Type 201)	2,5 D	2,5	02.89-05.93	OM 602.911	5	GR 075	SR 040	GN 858	GR 049
190 (Type 201)	2,5 D, TD	2,5	02.89-05.93	OM 602.961	5	GR 049	SR 040	GN 858	GR 049
200 (Type 124)	2,0 D, TD	2,0	02.89-06.93	OM 601.912	4	GR 073	SR 040	GN 858	GR 049
250 (Type 124)	2,5 D, TD	2,5	02.89-06.93	OM 602.912	5	GR 049	SR 040	GN 858	GR 049
250 (Type 124)	2,5 D, TD	2,5	02.89-06.93	OM 602.912	5	GR 075	SR 040	GN 858	GR 049
250 (Type 460)	2,5 GD	2,5	02.89-07.93	OM 602.930	5	GR 049	SR 040	GN 858	GR 049
	208 D	2,3	10.88-01.89	OM 601.940	4	GR 069	SR 040	GN 858	GR 049
	208 D	2,3	10.88-06.95	OM 601.940	4	GR 049	SR 040	GN 858	GR 049
	210 D	2,9	10.88-	OM 602.940	5	GR 049	SR 040	GN 858	GR 049
	308 D	2,3	10.88-	OM 601.940	4	GR 049	SR 040	GN 858	GR 049
	310 D	2,9	10.88-	OM 602.940	5	GR 049	SR 040	GN 858	GR 049
	408 D	2,3	10.88-	OM 601	4	GR 049	SR 040	GN 858	GR 049
	410 D	2,9	10.88-	OM 602	5	GR 049	SR 040	GN 858	GR 049
	508 D	2,3	03.89-	OM 601	4	GR 049	SR 040	GN 858	GR 049
Sprinter	2,3 208 D	2,3	04.95-	OM 601.943	4	GR 049	SR 040	GN 858	GR 049
Sprinter	2,3 308 D	2,3	04.95-	OM 601.943	4	GR 049	SR 040	GN 858	GR 049
Sprinter	2,3 408 D	2,3	04.95-	OM 601.943	4	GR 049	SR 040	GN 858	GR 049

Glow Plug



GLOW PLUG ACCESSORIES

Reamer



Relais

Ring-Ratched-Spanner 8x12





Description	BERU Type	Reference No.	Information
Glow Plug Tester		0 800 115 001	Easy checking for faulty glow plugs
Ring-Ratchet Spanner	RRS8x12	0 890 100 002	For mounting of glow plugs Volkswagen/Audi
Reamer		0 890 100 003	For removal of deposits/coke in glow plug slot of cylinder used for MB OM 611, OM612 and OM 613 engines
Cable Adapter	AG 001	0 890 200 001	

Flame Start Systems for trucks, buses, construction machines and stationary engines

12 V Tractors, stationary engines and construction equipment	FA 10/1	0 121 321 002
24 V Trucks, buses, marine engines with 10 - 15 ltr. Displacement	FA 20	0 121 221 001
Pressure regulating valve (0.3-0.5 bar)	DS 12	0 211 212 101
Pressure regulating valve (0.3-0.5 bar)	DS 24	0 211 213 101
Cable for pressure regulating valve	AD 89	2 907 059 289

Flame Start Systems:

Trucks, buses, tractors, construction machines and stationary engines can be started quickly and reliably even at the lowest temperatures with a Flame Starting Unit. The shorter warming-up phase reduces the amount of incompletely burnt fuel emitted into the environment. The carbon monoxide and nitrogen oxide emissions are also considerably reduced by the use of a Flame Starting Unit. Diesel engines can be operated more economical and their life spans can be increased.

Flame Glow Plugs	GF 973	12 V	Cummins
Flame Glow Plugs	GF 976	24V	Cummins
Solenoid Valve	MV 111	24V	
Solenoid Valve	MV 115	12V	
Solenoid Valve	MV 116	24V	

Technical Information



SPECIFICATIONS



Type	Order Number	Thread Size	Length of			GP Nm	Connect max. Nm	V	A	Seat	Connection
			Glow Plug	Reach	Hex						
GD 382	0 100 101 308	M 18 x 1,50	89	28	21		3	0.9	63	60* conical	Thread
GN 003	0 100 226 379	M 10 x 1.00	130	28	10			11.5	13	63* conical	Pin
GN 007	0 100 226 343	M 10 x 1.00	97	30	10			11	16	63*conical	Thread
GN 046	0 1000 226 482	M 10 x 1.00	92	30	10			11	16	63* conical	Pin
GN 855	0 100 226 227	M 10 x 1.00	92	25	10			11	14.5	63* conical	Pin
GN 857	0 100 226 173	M 12 x 1.25	58	21	12		3	11	14	63* conical	Thread
GN 858	0 100 226 234	M 12 x 1.25	69	23	12		3	11.5	15.5	63* conical	Thread
GN 860	0 100 226 258	M 12 x 1.25	119.5	28	12			11.5	12	63* conical	Thread
GN 909	0 100 226 186	M 12 x 1.25	71	25	12		3	11	14	63* conical	Thread
GN 928	0 100 226 119	M 12 x 1.25	72	21	12			12	14	63* conical	Thread
GN 948	0 100 226 235	M 12 x 1.25	119.5	28	12			11	15	63* conical	Pin
GV 001	0 100 222 105	M 10 x 1.25	96	32	12	20	2	6	11.5	93* conical	Pin
GV 003	0 100 800 002	M 10 x 1.0	76	28	9.5			24	11	93* conical	Pin
GV 004	0 100 271 106	M 10 x 1.00	77.4	28.5	9.5			10.5	19	93* conical	Blade
GV 108	0 100 222 302	M 18 x 1.50	93	38	21		3	9.5	10	60* conical	Thread
GV 602	0 100 221 106	M 12 x 1.25	71	25	12		3	11.5	8.5	63* conical	Thread
GV 603	0 100 221 107	M 12 x 1,25	68	25	12		3	11	12	63* conical	Thread
GV 636	0 100 221 133	M 12 x 1.25	71	25	12		3	11	13	63* conical	Thread
GV 642	0 100 221 135	M 12 x 1.25	71	25	12		3	11	16.5	63* conical	Thread
GV 691	0 100 221 153	M 10 x 1.25	73	27	12		2	11	15	63* conical	Thread
GV 705	0 100 221 154	M 10 x 1.25	84	37	12		2	10.5	13	119* conical	Thread
GV 749	0 100 221 186	M 10 x 1.25	90	24	12		2	5	14	119* conical	Thread
GV 783	0 100 226 129	M 12 x 1.25	125	26.5	12		2	11.5	16	90* conical	Thread
GV 823	0 100 271 101	M 10 x 1.00	81	28	9.5			10.5	-	93* conical	Pin
GV 835	0 100 271 102	M 10 x 1.00	78.5	27.5	9.5			10.5	-	93* conical	Blade
GV 886	0 100 226 180	M 10 x 1.25	100.5	28	12		2	7	-	93* conical	Thread
GV 888	0 100 220 113	M 12 x 1.25	61	21	12		3	6.5	-	63* conical	Thread
GV 894	0 100 222 101	M 10 x 1.25	95.5	32	12		2	7	-	93* conical	Thread

SPECIFICATIONS



Type	Order Number	Thread Size	Length of			GP Nm	Connect max. Nm	V	A	Seat	Connection
			Glow Plug	Reach	Hex						
819 MJ	0 100 226 138	M 10 x 1.00	129	31	9.5			11	16.5	93* conical	Pin
995 MJ(*)	0 100 226 303	M 10 x 1.0	77.4	28.2	9.5			6	9.5	93* conical	Blade
996 MJ	0 100 226 304	M 10 x 1.0	82.5	27	9.5			11.5	11	93* conical	Blade
N/A	0 100 226 394**	M 10 x 1.25	136.5	28	12	18	2	11			Thread
N/A	0 100 266 006**	M 10 x 1.25	136.5	28	12	25	3	11			Thread/ISS

(*) until stock is depleted, thereafter GV 004

* in degrees

