

COLOR CODING
PRODUCT GROUPS

- STANDARD
- LIFETIME
- XENON

ABBREVIATIONS/
SPECIFICATIONS

DP	Double Power
HD	Heavy Duty
Amber	Amber bulb
Free of Mercury	without mercury



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**BULBS
FOR TRUCKS**



































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SYMBOLS

	Low beam		Stop lamp
	High beam		Tail lamp
	Fog lamp		Glove compartment lighting
	Rear fog lamp		Interior lighting
	Daytime running light		Trunk lighting
	Parking lamp		License plate lighting
	Position lamp		Dashboard lighting
	Front indicator		Side marker lamp
	Rear indicator		Parking lamp
	Auxiliary indicator		Position lamp
	Back-up light		Clearance lamp
	Passenger cars		Packaging
	Passenger cars and vans – 12V		Voltage in volts
	Trucks and buses – 24V		Power in watts
	Tractors		Bulb socket base
	Motorcycles – 12V		Information

When switching bulbs,
always replace them in pairs!

¹ Yellow indicator casing
² White indicator casing
³ Twin headlamps

⁴ Standard headlamps
⁵ Five-chamber lamp
⁶ Seven-chamber lamp



PREFACE

SAFETY ON BOARD – LIGHT BULBS FROM HELLA

As the expert and technological leader in smart light distribution systems, halogen, xenon and full LED headlights, and as a partner to renowned vehicle manufacturers around the world, HELLA always meets the highest expectations and quality standards.

These are the specific standards we apply to our extensive range of light bulbs: Product diversity—from traditional halogen lights all the way to efficient xenon light—leading technology with rigorously tested quality without any compromises and optimum light output levels, even in the harshest weather conditions.

This ensures that our long-lasting, robust products not only prevent annoying and costly standstill time, but are also significantly brighter. For your own safety on the road.

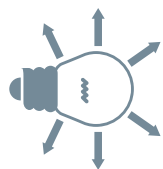
LIGHT SOURCES

Good visibility is the most important criterion for road safety. Various circumstances can impair this visibility, including twilight, adverse weather conditions, dirty windshields, etc. The risk of accidents is comparatively high under these kinds of driving conditions.

Changing and continually increasing mobility and traffic density also contribute to a higher risk. To meet these challenges successfully, we are constantly working towards improving existing lighting systems as well as developing new technical lighting equipment.



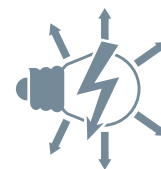
Here is a summary of the most important basic terms in lighting technology and the respective units of measure for lamp and light evaluation.



Luminous flux Φ

Unit: lumen [lm]

Luminous flux Φ is the term used to describe the complete luminous efficacy radiated from a light source.



Luminous efficacy η

Unit: lumen per watt [lm/W]

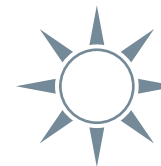
Luminous efficacy η specifies how efficiently consumed electrical power is converted into light.



Luminous intensity I

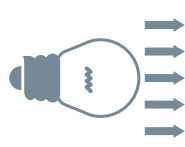
Unit: candela [cd]

This is the portion of the luminous flux radiating in a specific direction.



Light sources

Light sources are thermal radiators that produce light through heat energy. This means the more a light source is heated, the higher its luminous intensity will be.



Illuminance E

Unit: lux [lx]

Illuminance E specifies the incident luminous flux per unit of illuminated area. Illuminance is 1 lx when a luminous flux of 1 lm strikes an area of 1 m².



Luminance L

Unit: candela per square meter [cd/m²]

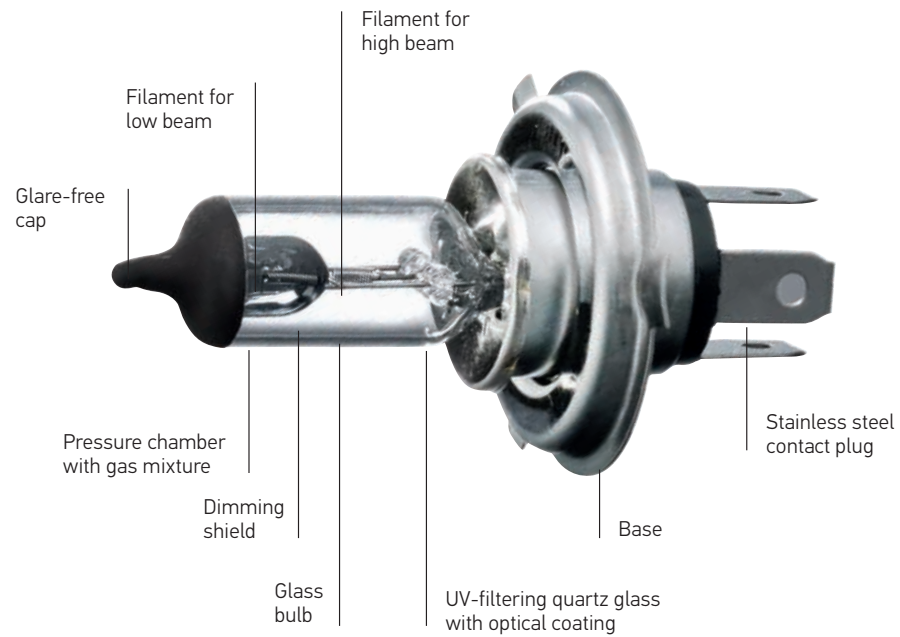
Luminance L is the amount of brightness detected by the eye from a luminous or illuminated surface.

COMPARISON OF LIGHT SOURCES

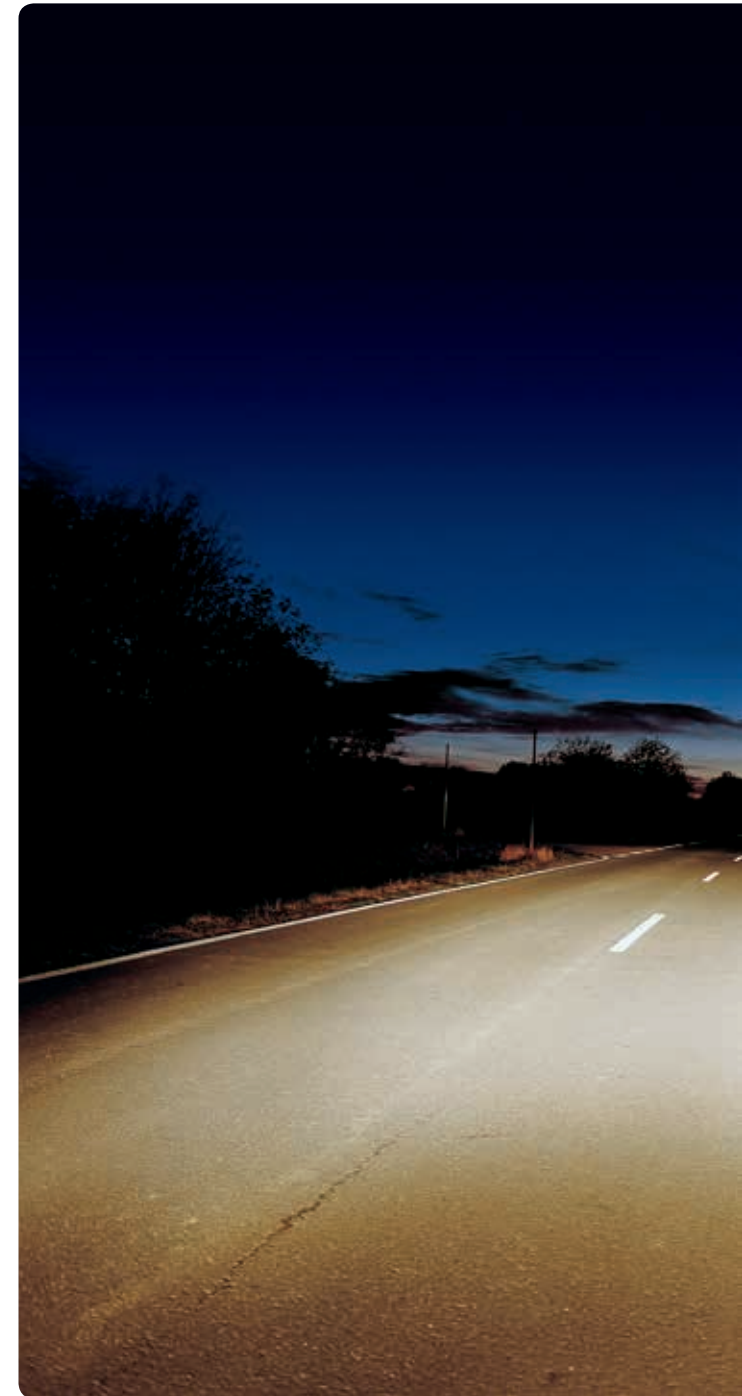
H4 HALOGEN LAMP

Halogen lamps are actually thermal radiators that convert heat energy into light. The filament begins to glow when subjected to a voltage, generating light as a result.

A standard halogen lamp has an efficiency of around 8%. Approximately 92% of the energy is lost as heat radiation.



Typical light distribution and color temperature of a headlamp with standard halogen lamps.



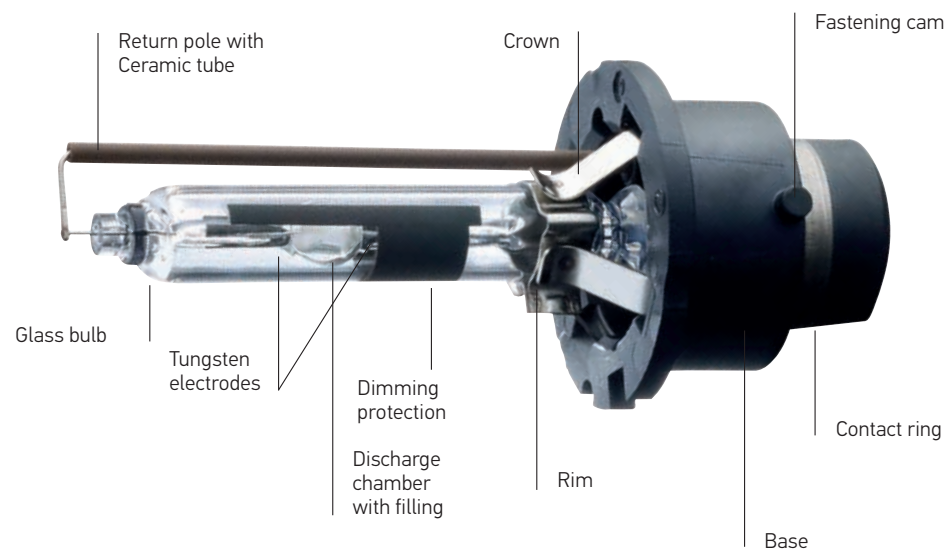


D2R HID LAMP

High-intensity discharge (HID) lamps are also known colloquially as xenon bulbs because they are filled with xenon gas.

A ballast generates a high voltage, which produces an electrical gas discharge in the discharge chamber, creating a very bright arc. An HID lamp has an efficiency around 3.5 times greater than a halogen lamp. (28% light radiation).

Due to higher luminous efficacy, HID lamps can produce more light than halogen lamps while using the same amount of energy. Thus, an HID lamp of the same size has stronger light distribution.



Typical light distribution and color temperature of a headlamp with HID lamps.

SAFETY INSTRUCTIONS

LAMP REPLACEMENT AND INSTALLATION



When inserting a new lamp, you should not touch the glass bulb, because fingerprints may burn in, leaving "clouds" on the glass.



Standard bulbs and halogen lamps do not contain environmentally damaging substances and can be disposed of as household waste



Check your local regulations to ensure correct disposal



HELLA recommends replacing both lamps when one has blown

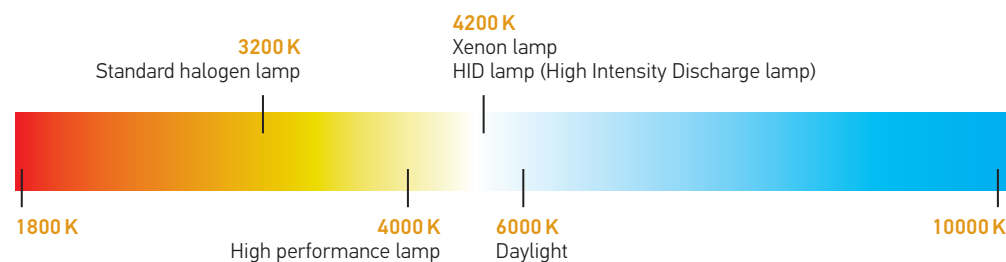


THE RIGHT SOLUTION, EVERY TIME

COLOR SPECTRUM SHOWING TYPICAL COLOR TEMPERATURES

The color temperature of light sources is measured in kelvin (symbol K). Color temperatures over 4,000 K are called 'cold' colors (bluish white), while lower temperatures (yellowish to reddish) are considered 'warm'.

The higher the color temperature of a light source, the higher the proportion of blue in its color spectrum (see image below). An incandescent bulb has a warm white color temperature of approx. 2700 K. The following image depicts the color temperature spectrum.



STRONG TRUCK LIGHTING

LIGHT IN THE DARK



And there was light: Upgrading auxiliary headlamps to meet the needs of drivers is a win-win situation. Field-tested bulbs from HELLA.

This includes auxiliary headlamps, working lights, reversing spotlights, daytime running lights and accessories. You can find all relevant and up-to-date information for the newest products at www.hella.de/truck. Also available for download as a PDF.



XENON UPGRADE LAMPS

XENON










Using homogenous light distribution, Xenon lamps provide optimum safety. In addition to bright and wide roadway illumination, durability and a high color temperature are among the advantages of xenon lamps from HELLA.

XENON +30



The newly developed HELLA Xenon +30 lamps combine design with optimal performance:

With a color temperature of up to 5,000 kelvin, they are similar to modern vehicles' extremely white light, providing maximum illumination and visibility similar to daylight.

							
HELLA Xenon							
8GS 009 028-111	D1S*	35 W	PK32d-2	4300 K	3000 h	2000 h	New generation
8GS 007 949-261	D2S*	35 W	P32d-2	4300 K	3000 h	2000 h	New generation
8GS 007 001-151	D2R*	35 W	P32d-3	4300 K	3000 h	2000 h	New generation
8GS 009 028-311	D3S**	35 W	PK32d-5	4300 K	2500 h	1500 h	New generation
8GS 007 949-311	D4S**	35 W	P32d-5	4300 K	3000 h	2000 h	New generation
HELLA Xenon +30							
8GS 009 028-621	D1S*	35 W	PK32d-2	5000 K	2500 h	1500 h	+30% more light
8GS 007 949-251	D2S*	35 W	P32d-2	5000 K	2500 h	1500 h	+30% more light
8GS 007 001-241	D2R*	35 W	P32d-3	5000 K	2500 h	1500 h	+30% more light





* To be used only with an approved electrical ballast

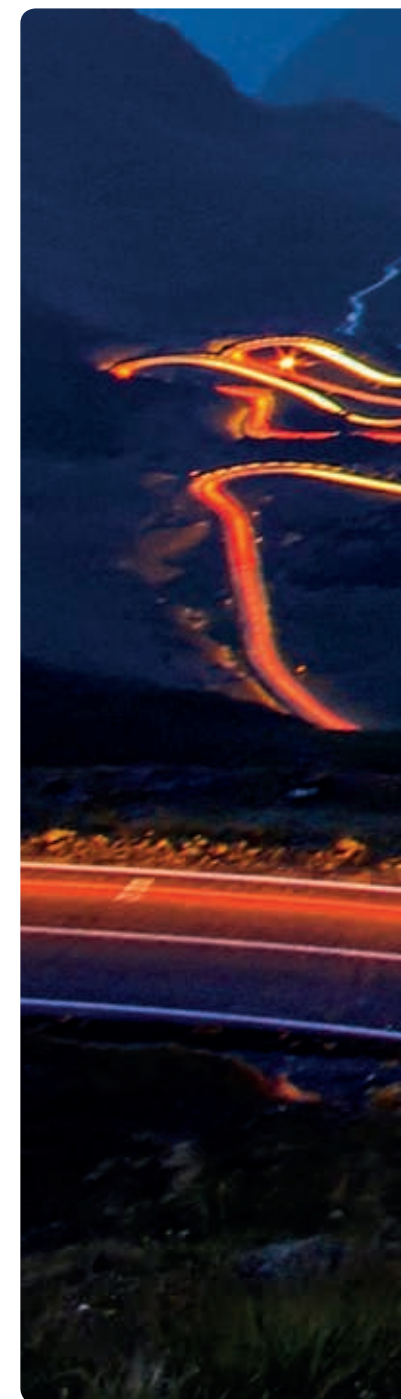
** Free of mercury

STANDARD: FOR GREATER COST-EFFECTIVENESS

Standard bulbs for commercial vehicles provide original equipment manufacturer quality and are a very good value for your money. They feature excellent luminous efficacy, reliability and durability.

- Comprehensive range of products for all standard requirements
- Strong light output
- Long service life
- Very good value for money

				
HELLA Standard Halogen				
8GH 002 089-251	H1	24 V	70 W	P14,5s
8GH 002 090-251	H3	24 V	70 W	PK22s
8GJ 002 525-251	H4	24 V	75/70 W	P43t
8GH 007 157-241	H7	24 V	70 W	PX26d
8GH 008 358-241	H11	24 V	70 W	PGJ19-2
8GJ 168 119-241	H15	24 V	60/20 W	PGJ23t-1
HELLA Standard Signal				
8GP 002 067-241	T4W	24 V	4 W	BA9s
8GA 002 073-241	P21W	24 V	21 W	BA15s
8GA 006 841-241	PY21W 1	24 V	21 W	BAU15s
8GA 002 071-241	R5W	24 V	5 W	BA15s
8GA 002 071-251	R10W	24 V	10 W	BA15s
8GM 002 092-241	C5W	24 V	5 W	SV8,5-8
8GP 003 594-251	W5W	24 V	5 W	W2,1x9,5d








LIFETIME: FOR A LONGER SERVICE LIFE

HELLA Heavy Duty halogen lamps (24 V) are specially designed for extreme demands, and can be found on construction equipment and agricultural machinery. Heavy Duty combines exceptional toughness and vibration resistance with impressive brightness and long service life.

Thanks to single coil technology, HELLA Double Power halogen lamps (24 V) have greater intensity and double the service life*.

Lifetime stands for

- Environmental friendliness through long usability
- Strong light output
- Longer service life
- Optimum price-performance ratio
- Less frequent bulb replacement

					
HELLA Heavy Duty					
8GH 002 089-361	H1	24 V	70 W	P14,5s	Vibration-resistant
8GJ 002 525-281	H4	24 V	75/70 W	P43t	Vibration-resistant
8GA 002 073-251	P21W	24 V	21 W	BA15s	Vibration-resistant
8GA 006 841-251	PY21W	24 V	21 W	BAU15s	Vibration-resistant
8GD 002 078-011	P21/5W	24 V	21/5 W	BAY15d	Vibration-resistant
8GA 002 071-261	R5W	24 V	5 W	BA15s	Vibration-resistant
8GA 002 071-271	R10W	24 V	10 W	BA15s	Vibration-resistant
8GP 002 067-261	T4W	24 V	4 W	BA9s	Vibration-resistant
HELLA Double Power					
8GH 002 089-491	H1	24 V	70 W	P14,5s	Twice the service life
8GH 002 090-471	H3	24 V	70 W	PK22s	Twice the service life
8GJ 002 525-511	H4	24 V	75/70 W	P43t	Twice the service life
8GH 007 157-231	H7	24 V	55 W	PX26d	Twice the service life
8GH 008 358-251	H11	24 V	70 W	PGJ19-2	Twice the service life

* Compared to standard halogen lamps.

ASSORTMENT BOXES

READY FOR ANYTHING

Vehicle lamps fail most often when they are switched on, at night or while on the road. Just when it is most difficult to get hold of a replacement. To help you be prepared for such situations, HELLA offers a number of different assortment boxes with individual packages.

In any situation, the most fundamental requirement for safe driving is good visibility. Therefore, HELLA's assortment boxes contain not only common headlamps, but also signal, indicator and marking lamps, plus a selection of fuses.



24 V H4 assortment box

8GJ 002 525-941

1

24 V

Box contains one set of H4 headlamps, two common signal lamps for each and six fuses



2	24 V	H4	70/70 W	P43t	8GJ 002 525-253
2	24 V	T4W	4 W	BA9s	8GP 002 067-241
2	24 V	C5W	5 W	SV8,5-8	8GM 002 092-241
2	24 V	R10W	10 W	SV8,5-8	8GA 002 071-251
2	24 V	P21W	21 W	BA15s	8GA 002 073-241
2	24 V	P21/5W	21/5 W	BAY15d	8GD 002 078-241
6		Blade-type fuses	2x10 A, 2x15 A, 2x30 A		

24 V H7 assortment box

8GH 007 157-931

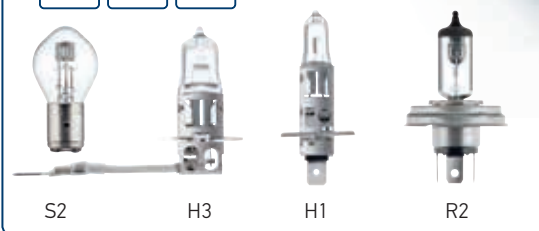
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24 V

Box contains one set of H7 headlamps, two common signal lamps for each and six fuses



2	24 V	H7	55 W	PX26d	8GH 007 157-241
2	24 V	C5W	5 W	SV8,5-8	8GM 002 092-241
2	24 V	R10W	10 W	SV8,5-8	8GA 002 071-251
2	24 V	P21W	21 W	BA15s	8GA 002 073-241
2	24 V	W5W	5 W	W2,1x9,5d	8GP 003 594-251
2	24 V	P21/5W	21/5 W	BAY15d	8GD 002 078-241
6		Blade-type fuses	2x10 A, 2x15 A, 2x30 A		





24 V

**D1S**

			8GS 009 028-111	1	85*	35	PK32d-2	4.300K
			8GS 009 028-621	1	85*	35	PK32d-2	5.000K +30%

D2S

			8GS 007 949-261	1	85*	35	P32d-2	4.300K
			8GS 007 949-251	1	85*	35	P32d-2	5.000K +30%

D2R

			8GS 007 001-151	1	85*	35	P32d-3	4.300K
			8GS 007 001-241	1	85*	35	P32d-3	5.000K +30%

D3S

			8GS 009 028-311	1	42*	35	PK32d-5	4.300K Free of Mercury

D4S

			8GS 007 949-311	1	42*	35	P32d-5	4.300K Free of Mercury



24 V

**H1**

			8GH 002 089-251	1	24	70	P14.5s	
			8GH 002 089-361	1	24	70	P14.5s	Heavy Duty
			8GH 002 089-491	1	24	70	P14.5s	Double Power

H3

			8GH 002 090-251	1	24	70	PK22s	
			8GH 002 090-471	1	24	70	PK22s	Double Power

H4

			8GJ 002 525-251	1	24	75/70	P43t	
			8GJ 002 525-281	1	24	75/70	P43t	Heavy Duty
			8GJ 002 525-511	1	24	75/70	P43t	Double Power

R2

			8GD 002 088-271	1	24	55/50	P45t	Halogen
			8GJ 003 133-242	1	24	75/70	P45t	Halogen

H7

			8GH 007 157-241	1	24	70	PX26d	
			8GH 007 157-231	1	24	70	PX26d	Double Power

*Lamps to be used with electrical ballast units for 12 V and 24 V vehicles



24 V

**R10W**

			8GA 002 071-251	10	24	10	BA15s	
			8GA 002 071-271	10	24	10	BA15s	Heavy Duty

H

			8GP 002 068-241	10	24	2	BA9s	

K

			8GM 002 091-241	10	24	18	SV8.5-8	approx. 15.5/40mm
			8GM 002 091-251	10	24	10	SV8.5-8	approx. 11/40mm
			8GM 002 091-261	10	24	15	SV8.5-8	approx. 15.5/40mm

M

			8GM 002 094-241	10	24	3	SV7-8	approx. 8.2/30 mm

C5W

			8GM 002 092-241	10	24	5	SV8.5-8	approx. 11/35 mm



24 V

**Minihalogen**

			8GP 008 285-001	1	24	7,5	BA9s	Xenon

W3W

			8GP 003 594-241	10	24	3	W2.1x9.5d	

W5W

			8GP 003 594-251	10	24	5	W2.1x9.5d	




J

			8GP 002 066-241	10	24	3	BA7s	



W1,2W




			8GP 002 095-241	10	24	1,2	W2x4.6d	
			8GA 007 997-181	10	24	2	W2x4.6d	




W2W




			8GA 008 901-241	10	24	2	W2.1x9.5	




Plastic Socket Lamps


			8GA 007 997-021	10	24	1	W2x4.6d	white




			8GA 007 997-061	10	24	1,2	B8.3d	grey

			8GA 007 997-071	10	24	1,2	B8.5d	grey













			8GA 007 997-191	10	24	1,2	EBS	yellow

			8GA 007 997-201	10	24	1,2	EBS R6	brown













			8GA 007 997-272	10	24	1,2	EBS N10	beige

			8GA 007 997-261	10	24	1,2	BX8.5d	brown

Application for Commercial Vehicles												
DAF												
DAF 45 01/91 → 12/00	H4	H4		P21W/W5W	P21W	R5W	P21W	P21W	R5W	R5W		
DAF 55 09/95 → 12/00	H4	H4		P21W/W5W	P21W	R5W	P21W	P21W	R5W	R5W		
DAF 65 CF 02/98 → 12/00	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W	T4W/W5W	C5W/R5W	W3W
DAF 75 07/92 → 02/98	H4	H4		P21W	P21W	R5W	P21W	P21W				
DAF 85 CF 02/98 → 12/00	H4	H4	H3	P21W/R5W	P21W	R5W	P21W	P21W				
DAF 95 XF 01/97 → 09/02	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W	T4W/W5W	C5W	W3W
DAF CF 65 01/01 →	H7	H1		P21W	P21W	R5W	P21W	P21W	R5W	W5W	R5W	W3W
DAF CF 75 01/01 →	H7	H1		P21W	P21W	R5W	P21W	P21W	R5W	W5W	R5W	W3W
DAF CF 85 01/01 →	H7	H1		P21W	P21W	R5W	P21W	P21W	R5W	W5W	C5W/R5W	W3W
DAF F 1000	H4	H4		P21W	P21W	R10W	P21W	P21W	R10W	T4W	T4W	
DAF F 1700	H4	H1		P21W	P21W	R10W	P21W	P21W	R10W	T4W	R5W	
DAF F 1800		R2		P21W	P21W	R5W	P21W	P21W	R5W	T4W	R5W	
DAF F 1900	H4	H1		P21W	P21W	R10W	P21W	P21W	R10W	T4W	R5W	
DAF F 2700 01/90 → 10/90	H1	H1	H1	P21W	P21W	R10W	P21W	P21W	R10W	T4W	R5W	
DAF F 2900 01/90 → 10/90	H1	H1	H1	P21W	P21W	R10W	P21W	P21W	R10W	T4W	R5W	
DAF F 3200 01/90 → 10/90	H1	H3	H1	P21W	P21W	R10W	P21W	P21W	R10W	T4W	R5W	
DAF F 3600 06/85 → 09/85	R2	H1		P21W	P21W	R5W	P21W	P21W	R5W	T4W	R5W	
DAF LF 45 01/01 →	H7	H1		P21W	P21W	R5W/R10W	P21W	P21W	R5W / R10W	W5W	R5W	
DAF LF 55 01/01 →	H7	H1		P21W	P21W	R5W	P21W	P21W	R5W	W5W	R5W	
DAF XF 95 09/02 → 12/06	H7	H1/H3	H1	P21W	P21W	R5W	P21W	P21W	R5W	W5W	C5W	W3W
DAF XF 105 10/05 →	H7/D2S Xenon	H1	H3	P21W	P21W	R5W	P21W	P21W	R5W	W5W	C5W	W3W
IRISBUS												
IRISBUS AGORA 01/03 →	H7	H1		P21W		P21/5W	P21W	P21W	C5W	W5W		W5W
IRISBUS DAILY TOURYS 11/06 →	H7	H1	H1	P21W	P21W	R5W	P21W	P21W	W5W	W5W	W5W	
IRISBUS DAILY TOURYS 11/06 →	H7	H1	H1	P21W / PY21W / W16W	P21W	R5W	P21W	P21W	W5W	W5W	W5W	
IVECO												
IVECO Daily I 01/78 → 04/99	H4	H4	H3	P21W/W5W	P21W	R5W	P21W	P21W	R5W	T4/W	R5W	
IVECO Daily II 05/99 → 12/06	H7	H7		P21W ¹ / PY21W ²	P21W	R5W/R10W	P21W	P21W	C5W / R5W	W5W	W5W	W3W
IVECO Daily III 05/06 →	H7	H1	H1	P21W ¹ / PY21W ² / W16W	P21W	R5W	P21W	P21W	W5W	W5W	C5W	W5W
IVECO EuroCargo 01/91 →	H4/H7	H4/H7	H3	P21W	P21W	R5W	P21W	P21W	R5W	T4W/W5W	R5W/T4W/W5W	R5W
IVECO EuroStar 01/93 → 02/02	H4	H4/H3	H3	P21W ¹ / PY21W ²	P21W	R5W	P21W	P21W	R5W	T4W	R5W	T4W
IVECO EuroTech MH 09/98 →	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W / R10W	T4W	R5W / T4W	R5W / W3W
IVECO EuroTech MP 01/92 →	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W / R10W	T4W	R5W / T4W	R5W / W3W
IVECO EuroTech MT 01/92 → 08/98	H4	H3	H3	P21W	P21W	R5W	P21W	P21W	R5W		T4W	R5W
IVECO EuroTrakker 01/93 → 11/04	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R10W	T4W	R5W/T4W	R5W
IVECO Cursor	H4	H4		PY21W2								
IVECO Stralis 02/02 →	H7	H7	H1	P21W	P21W	R5W	P21W	P21W	R10W	W5W		W3W
IVECO Trakker 10/04 →	H7	H1	H1 / H7	P21W ¹ / PY21W ²	P21W	R5W	P21W	P21W / R5W	P21W / R5W	P21W / W5W	R5W	R5W
IVECO TurboStar 07/84 → 12/84	H4	H4		P21W	P21W	R10W	P21W	P21W	C5W	T4W		
IVECO Turbo Tech 01/90 → 01/93	H4	H4	H3	R5W	P21W	R5W	P21W	P21W	C5W	T4W	C5W	
MAN												
MAN E 2000 05/00 →	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R10W	T4W	T4W	
MAN EL 01/93 → 01/01	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	C5W	T4W	R10W	R10W
MAN EM 08/87 →	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	C5W	T4W		R10W
MAN F 90 06/86 →	H4 ⁴ / H1 ³	H4/H3/H1	H3	P21W	P21W	R5W ⁶ / R10W ⁵	P21W	P21W	R10W	T4W	T4W / R10W	W5W

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MAN F 90 Unterflur 06/86 → 09/96	H4 ⁴ / H1 ³	H4/H3/H1	H3	P21W	P21W	R5W ⁶ / R10W ⁵	P21W	P21W	R10W	T4W	T4W / R10W	W5W
MAN F 2000 01/94 →	H7 ³ /H4 ⁴	H7 ^{3/4} H4/H3	H3	P21W	P21W	R5W ⁶ / R10W ⁵	P21W	P21W	R10W	T4W	T4W / R10W	W5W
MAN G 90 09/87 → 05/95	H4/R2	H4/R2	H3	P21W	P21W	R5W ⁶ / R10W ⁵	P21W	P21W		T4W	T4W / R10W	
MAN L 2000 10/93 →	H7 ³ /H4 ⁴	H7 ^{3/4} H4/H3	H4 / H3	P21W / P21/5W	P21W	R5W ⁶ / R10W ⁵	P21W	P21W	R10W	T4W / W5W	T4W / R10W	W5W
MAN LION 'S COACH 05/95 →	H7 / D2R Xenon	H7 / H4	H4 / H3	P21W / R5W	P21W / P21/5W	R10W / P21/5W	P21W	P21W	C5W	T4W / W5W	R5W / R10W	W3W
MAN LION 'S STAR 03/91 →	H7 / D2R Xenon	H7 / H4	H4 / H3	P21W	P21W	R10W	P21W	P21W	C5W	W5W	R10W	W3W
MAN LIONS COMFORT 09/96 →	H7 / H1	H7/H4/H1	H4 / H3	P21W	P21W	R5W	P21W	P21W	C5W	T4W / W5W	R10W	W3W
MAN M 90 08/88 → 12/98	H4 ⁴ / H1 ³	H4/H3/H1	H3	P21W	P21W	R5W / R10W	P21W	P21W	R10W	T4W	T4W / R10W	W5W
MAN M 2000 L 09/99 →	H7 ³ /H4 ⁴	H7/H4/H3	H4 / H3	P21W / P21/5W	P21W	R5W ⁶ / R10W ⁵	P21W	P21W	R10W	T4W / W5W	T4W / R10W	W5W
MAN M 2000 M 08/95 →	H7 ³ /H4 ⁴	H7/H4/H3	H3	P21W	P21W	R5W ⁶ / R10W ⁵	P21W	P21W	R10W	T4W	T4W / R10W	W5W
MAN NG 08/92 →	H4	H4	H3									
MAN NL 09/88 →	H7 ³ /H4 ⁴ / D2R Xenon	H7 / H4	H4 / H3	P21W ¹	P21W	R5W	P21W	P21W	C5W	T4W / W5W	R10W	R10W
MAN NÜ 03/96 →	H7 ³ /H4 ⁴	H7 / H4	H4	P21W ¹ / PY21W ²			P21W	P21W	R5W	W5W		
MAN SD 04/74 → 04/74	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	R5W	T4W	W3W	
MAN SG 09/72 →	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	R5W	T4W		W3W
MAN SL II 04/84 → 05/84	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	R10W	T4W		
MAN SM 08/87 →	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	R5W	T4W	R5W	
MAN SR 02/75 → 08/75	H1	H4	H3	P21W		P21/5W	P21W	P21W	C5W	T4W		
MAN SÜ 10/75 →	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	R5W	T4W		
MAN TGA 03/00 →	H7 ³ /H4 ⁴ / D2R Xenon	H7 / H4	H4	P21W ¹	P21W	R5W ⁶ / R10W ⁵	P21W	P21W	R10W	T4W / W5W	R10W / T4W	T4W
MAN TGL 04/05 →	H7 / D2S Xenon	H7		P21W	P21W	R5W	P21W	P21W	R5W	W5W		
MAN TGM 10/05 →	H7 / D2S Xenon	H7		P21W ¹ / PY21W ²	P21W	R5W	P21W	P21W	R5W		W5W	R5W / W5W
MAN TGS 08/07 →	H7	H7		P21W ¹ / PY21W ²	P21W	R5W	P21W	P21W	R5W	W5W	W5W	
MAN TGX 10/07 →	H7 / D2S Xenon	H7	H3	P21W ¹ / PY21W ²	P21W	R5W	P21W	P21W	R5W	W5W / H21W	W5W	
MAN ÜL 09/89 →	H1	H1	H3	P21W	P21W	R5W	P21W	P21W	C5W	T4W		R10W
MERCEDES-BENZ												
MERCEDES-BENZ ACTROS 04/96 →	H4	H4	H1	P21W / P21/5W	P21W	R10W	P21W	P21W	R10W	P21/5W	R10W	W3W
MERCEDES-BENZ ACTROS MP2/MP3 10/02 →	H7 / D2S Xenon	H1	H3	P21W ¹ / PY21W ² / P21/5W	P21W	R10W	P21W	P21W		W5W	C5W / R10W	
MERCEDES-BENZ ACTROS MP4 07/11 →	H7	H1	H3	P21W	P21W	R10W	P21W	P21W	R10W	W5W	C5W	R10W
MERCEDES-BENZ ACTROS MP4 07/11 →	H7	H1	H3	P21W / P21/5W	P21W	R10W	P21W	P21W	R10W	W5W	C5W	R10W
MERCEDES-BENZ ATEGO 01/98 → 10/04	H4	H4 / H3	H1	P21W / P21/5W	P21W	R10W	P21W	P21W	R10W	W5W	R10W	W3W
MERCEDES-BENZ ATEGO II 10/04 →	H4	H3	H1	PY21W	P21W	R10W	P21W	P21W	R10W	W5W	R10W	R10W
MERCEDES-BENZ AXOR 01/02 → 10/04	H7 ³ /H4 ⁴	H4 ⁴ / H3 ⁴ / H1	H3 / H1	P21W / P21/5W	P21W	R10W	P21W	P21W	R10W	W5W	R10W	W3W
MERCEDES-BENZ AXOR II 10/04 →	H7	H1	H3	P21W / P21/5W	P21W	R10W	P21W	P21W	R10W	W5W	R10W	R10W
MERCEDES-BENZ CITARO (O 530) 01/98 →	H4 ⁴ / H1 ³	H4 ⁴ / H1 ³	H3	P21W ¹ / PY21W ²	P21/5W	P21/5W	P21W	P21W	C5W	T4W	C5W / R10W	W3W
MERCEDES-BENZ CITO (O 520) 09/98 →	H1	H1	H3	P21W	P21W	R5W	P21W	P21W	R10W	T4W	R10W	
MERCEDES-BENZ CONECTO (O 345) 11/01 →	H4 ⁴ / H1 ³	H4 ⁴ / H1 ³	H3 / H1	P21W	P21W	R10W	P21W	P21W	C5W	W5W	R10W	
MERCEDES-BENZ ECONIC 03/98 →	H1	H1	H3	P21W	P21W	R10W	P21W	P21W		T4W	C5W	
MERCEDES-BENZ INTEGRO (O 550) 09/96 →	H7	H1	H1	P21W	P21W	R5W	P21W	P21W	C5W	W5W	R10W	
MERCEDES-BENZ INTOURO 01/05 →	H7	H7	H1	P21W	P21W	R5W	P21W	P21W	C5W		R10W	
MERCEDES-BENZ LK/LN2 01/84 → 12/84	H3	H4	H3	P21W	P21W	R10W	P21W	P21W	R10W	T4W		R5W
MERCEDES-BENZ MK 12/87 → 09/96	H4 / R2	H4 / H3 / R2	H3	P21W	P21W	R10W	P21W	P21W	R10W	T4W	R5W	C5W
MERCEDES-BENZ NG 08/73 → 09/73	R2	H3	H3	P21W						T4W	R5W	
MERCEDES-BENZ O 100 01/94 →	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	C5W	W5W		
MERCEDES-BENZ O 302 01/64 → 11/64	R2	R2		P21W	P21W	R10W	P21W	P21W	C5W	T4W		
MERCEDES-BENZ O 309 01/68 → 02/68	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	C5W	T4W		

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MERCEDES-BENZ O 317 09/58 → 02/58	R2	R2		P21W	P21W	R10W	P21W	P21W	C5W	T4W		
MERCEDES-BENZ O 340 01/91 → 06/95	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	C5W	T4W	R10W	C5W
MERCEDES-BENZ O 404 09/91 → 10/99	H1	H1		P21W	P21W	R10W	P21W	P21W	C5W	R5W	R5W	W5W
MERCEDES-BENZ O 405 09/84 →	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	C5W	R5W	R10W	
MERCEDES-BENZ O 407 03/87 → 11/01	H4	H4		P21W	P21W	R10W	P21W	P21W	R10W	T4W	R10W	W3W
MERCEDES-BENZ O 408 09/89 → 12/89	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	C5W	W5W	R10W	R10W
MERCEDES-BENZ SPRINTER 02/95 → 05/06	H7 / H3 / H1	H3 / H1	H7 / H1	P21W ¹ / PY21W ²	P21W	R5W	P21W	P21W	R5W	W5W	W5W / R5W	W3W
MERCEDES-BENZ SPRINTER 06/06 →	H7 / D1S Xenon	H7 / D1S Xenon	H7 / H11	PY21W	P21W	R5W	P21W	P21W	R5W		W5W	W5W
MERCEDES-BENZ SK 07/87 → 09/96	H4 / R2	H4 / H3 / R2	H3	P21W	P21W	R10W	P21W	P21W	R10W	T4W	R5W	R5W
MERCEDES-BENZ TOURINO (O 510) 10/03 →	H4	H4		P21W	P21/5W	P21/5W / R5W	P21W	P21W	C5W	W5W	R10W	W3W
MERCEDES-BENZ TOURISMO (O 350) 09/94 →	H1	H1		P21W	P21W	R5W	P21W	P21W	C5W	R5W	R5W	
MERCEDES-BENZ TOURO (O 500) 10/01 →	H4	H1		P21W	P21W	R5W	P21W	P21W	R10W	W5W	R10W	
MERCEDES-BENZ TRAVEGO (O 580) 10/99 →	H7 / D2S Xenon	H1	H3	P21W	P21/5W	P21/5W	P21W	P21W	C5W	W5W	T4W / R10W	W3W
MERCEDES-BENZ UNIMOG 01/66 →	H4	H1	H3	P21W / P21/5W	P21W	R10W	P21W	P21W	R10W	T4W	W5W	
MERCEDES-BENZ VARIO 09/96 →	H1	H1	H1	P21W	P21W	R5W / R10W	P21W	P21W	C5W / R10W	W3W / W5W	T4W / R5W	W3W / W5W
MERCEDES-BENZ ZETROS 09/08 →	H1	H1	H3	P21W / P21/5W	P21W	R10W	P21W	P21W	R10W	W5W	W5W	R5W
MULTICAR												
MULTICAR Fumo 09/01 →	H4	H4	H3	P21W ¹ / PY21W ²	P21W	R10W	P21W	P21W	W5W	T4W		
MULTICAR M26 06/92 → 09/92	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	R10W	T4W		
MULTICAR Multi M26 06/92 →	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	R10W	T4W		
NEOPLAN												
NEOPLAN Centroliner 10/98 →	H7	H7		P21W		P21/5W	P21W	P21W	C5W	W5W	T4W	
NEOPLAN Cityliner 04/73 →	H7	H7	H3		P21W	R10W	P21W	P21W	C5W	W5W		
NEOPLAN Euroliner 10/98 →	H7	H7		P21W		P21/5W	P21W	P21W	C5W	W5W	T4W	
NEOPLAN Jetliner 09/73 → 09/73	H1	H1	H3	P21W		R5W	P21W	P21W	C5W	W5W	C5W	W5W
NEOPLAN Skyliner 09/73 →	H7	H7	H7	P21W	P21W	R10W	P21W	P21W	C5W	W5W		W3W
NEOPLAN Spaceliner 09/79 →	H4	H4		P21W / R5W	P21W	P21/5W	P21W	P21W	C5W	R5W		
NEOPLAN Starliner 09/96 →	H7	H7	H3		P21W	R10W	P21W	P21W	C5W	W5W		
NEOPLAN Tourliner 09/02 →	H7	H7	H7		P21W	R10W	P21W	P21W	C5W	W5W		
NEOPLAN Transliner 12/88 →	H1	H1	H3	P21W		R5W	P21W	P21W	C5W	W5W	C5W	W5W
NEOPLAN Trendliner 09/04 →	H7	H7	H7	P21W	P21W	R5W	P21W	P21W	C5W	T4W	R5W	
NISSAN												
NISSAN CABSTAR E 10/98 → 10/06	H4	H4	H1	P21W / W5W	P21W	R10W	P21W	P21W	P21W	R5W / W5W		
NISSAN CABSTAR 10/06 →	HB4	HB4		P21W						W5W		
RENAULT												
RENAULT TRUCKS C 10/82 → 10/82	H4	H4	H2	P21W	P21W	R10W	P21W	P21W		T4W		
RENAULT TRUCKS Kerax 06/97 →	H1	H1/H3	H1 ³ / H2 ⁴	P21W / W5W	P21W	R5W	P21W	P21W	R10W	W5W	W5W	
RENAULT TRUCKS Magnum 02/92 →	H4	H4	H2	P21W / T4W	P21W	R5W	P21W	P21W	R5W	T4W	R10W	W3W
RENAULT TRUCKS Magnum 06/01	H7	H1	H1 / H2	P21W ¹ / PY21W ²	P21W	R5W	P21W	P21W	R5W	W5W	R5W	W3W
RENAULT TRUCKS Major 05/91 → 10/91	H4	H4	H3	P21W	P21W	R10W	P21W	P21W	R5W	T4W		
RENAULT TRUCKS Manager 09/91 → 10/91	H1	H1		P21W / R5W	P21W	R10W	P21W	P21W	R5W	T4W		
RENAULT TRUCKS Mascott 01/9906/04	H4	H4	H1	P21W ¹ / PY21W ²	P21W	R5W / R10W	P21W	P21W	C5W FOA-51	W5W FOA-53	W3W	W3W FOA-52
RENAULT TRUCKS Maxity 03/07 →	H4	H4	H1	P21W	P21W	P21W	P21W	P21W			R10W	
RENAULT TRUCKS Maxter 10/9206/97	H4	H4	H3	P21W / T4W	P21W	R5W	P21W	P21W	R5W	T4W	R5W	
RENAULT TRUCKS Midliner 09/8301/00	H4	H4	H2	P21W	P21W	R5W	P21W	P21W	R5W	T4W	R5W	
RENAULT TRUCKS Midlum 01/00	H1	H3 / H1	H24 / H13	P21W	P21W	R10W	P21W	P21W	R10W	W5W	W5W	W3W
RENAULT TRUCKS Premium Distribution 04/96	H1	H1	H1	P21W / R5W	P21W	R10W / R5W	P21W	P21W	R10W / R5W	W5W	W5W	W3W
RENAULT TRUCKS Premium Route 04/96	H1	H1	H1	P21W / R5W	P21W	R10W / R5W	P21W	P21W	R10W / R5W	W5W	W5W	W3W

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RENAULT TRUCKS Premium II Distribution 10/05	H7	H1	H3	P21W ¹ / PY21W ² / R5W	P21W	R5W	P21W	P21W	R5W	W5W		
RENAULT TRUCKSPremium II Lander 10/06	H7	H1	H3									
RENAULT TRUCKS Premium II Route 10/05	H7	H1	H3	P21W ¹ / PY21W ²	P21W	R5W	P21W	P21W	R5W	W5W		
SCANIA												
SCANIA 3 - Serie 01/8812/96	H4	H4	H1	P21W / R5W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
SCANIA 3 - Serie Bus 01/8912/97	H4	H4	H1	P21W / R5W	P21W	R5W	P21W	P21W	R5W		R5W	R5W
SCANIA 4 - Serie 09/9509/04	H4	H4	H1	P21W / R5W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
SCANIA P, G, R, T - Serie 03/04	H4 / D2R Xenon	H4 / H3 / H1	H1	P21W	P21W	R5W	P21W	P21W	R5W / C5W	T4W	R5W	
VOLVO												
VOLVO 7700 06/06 →	H7	H7	H3	P21W	P21W	P21/5W	P21W	P21W	C5W	W5W	C5W	
VOLVO 9700 04/01	H7	H7	H3	P21W ¹ / PY21W ²	P21/5W	P21/5W	P21W	P21W	C5W	T4W		
VOLVO 9900 10/01 →	H7	H7	H3		P21W	R5W	P21W	P21W	C5W	T4W	C5W	
VOLVO B 12 01/92 →	H7	H7	H3	P21W		R5W	P21W	P21W	C5W	T4W		
VOLVO F 12 08/7712/94	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO F 16 10/87 → 12/87	H4	H4	H3	P21W / R5W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO FE 05/06 →	H4	H3	H3	P21W	P21W	R5W	P21W	P21W	R5W		R5W	R5W
VOLVO FH 12, FH 16 08/93	H4 / D2S Xenon	H4 / H3	H3	P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO FH 16 08/93 →	H4	H3	H3	P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO FL 03/00	H1	H1	H3	P21W ¹ / PY21W ²	P21W	R5W	P21W	P21W	R5W	W5W	R5W	
VOLVO FL 6 09/8503/00	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO FL 7 09/8503/00	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO FL 10 09/8509/98	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO FL 12 09/9509/98	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO FLC 09/9609/00	H1	H1	H1	P21W / P21/5W	P21W	R5W	P21W	P21W	R5W	T4W	R5W	R5W
VOLVO FL II 05/06	H4	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO FM 09/05	H4 / D2S Xenon	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO FM 7 08/9812/01	H4	H4	H3	P21W / P21/5W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	
VOLVO FM 9 12/0109/05	H4 / D2S Xenon	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO FM 12 08/9809/05	H4 / D2S Xenon	H4	H3	P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	R5W
VOLVO FS 7 11/9103/96	H4	H4		P21W	P21W	R5W	P21W	P21W	R5W	R5W	R5W	
VOLVO NH 12 05/99	H4	H4 / H1	H1	P21W / R21/5W	P21W	R5W	P21W	P21W	R5W	W5W	R5W	R5W
VOLKSWAGEN												
VW L 80 07/9512/00	H4	H4		P21W	P21W	R10W	P21W	P21W	R10W	T4/W	R10W	

