



Light is the perfect upgrade

OSRAM LEDriving® replacement lamps

Ideal for innovation-oriented drivers. For high and low beam headlights, fog lights as well as signal and interior lighting.

Light is OSRAM

OSRAM

Be one step ahead

Meet future demands already today – with OSRAM LEDriving® replacement lamps

Do you have customers who want to upgrade their car lighting to the latest state-of-the-art technology? With OSRAM LEDriving® replacement lamps, you are best equipped to satisfy the needs and wishes of passionate, innovation-oriented drivers, who also attach great importance to safety, performance and style.



Perfect for every part of the car

Being the global number 1 in automotive lighting, OSRAM is your one-stop shop for innovative LED replacement lamps. With our comprehensive portfolio of LED retrofits, you can cover a wide range of applications – ranging from high-brightness forward lighting to excellent signal and interior lighting.



Easy upgrade, essential benefits

OSRAM LEDriving® replacement lamps are ready for easy replacement and thus do not require any special know-how. What's more? They come with a long lifetime, low energy consumption – and 100 % more style. Thanks to high color temperatures of up to 6,000 K, their light creates a distinctive cool white look that turns vehicles into real eye-catchers.



High performance for improved visibility

OSRAM LEDriving® replacement lamps give a shining performance wherever they are installed. Achieving exceptional brightness levels, OSRAM LEDriving® HL and FL lamps ensure optimum visibility and thus allow drivers to recognize signs, obstacles and hazards sooner than with conventional lamps. OSRAM LEDriving® PREMIUM SL and LEDriving® SL lamps, on the other hand, create a dynamic and refreshing light in a multitude of signal and interior lighting applications – with a homogeneous light distribution and a wide range of different colors. Moreover, OSRAM LEDriving® PREMIUM SL and LEDriving® SL rear lamps also provide faster signals due to their instant light output.



OSRAM excellence – quality you can count on

Our LED lighting is based on the highest level of technological know-how. In order to ensure that our research can be carried out in close alignment with the production steps, we have founded an LED competence center in Treviso, Italy, which unites an R&D center and a production line under one roof. In Treviso, OSRAM LEDriving® replacement lamps are developed with a strong focus on the needs of our customers and also meet the highest quality standards as they undergo 38 controls before they are sold.

Be prepared when your customers are looking for the perfect upgrade. Be one step ahead!

Benefit from our complete portfolio



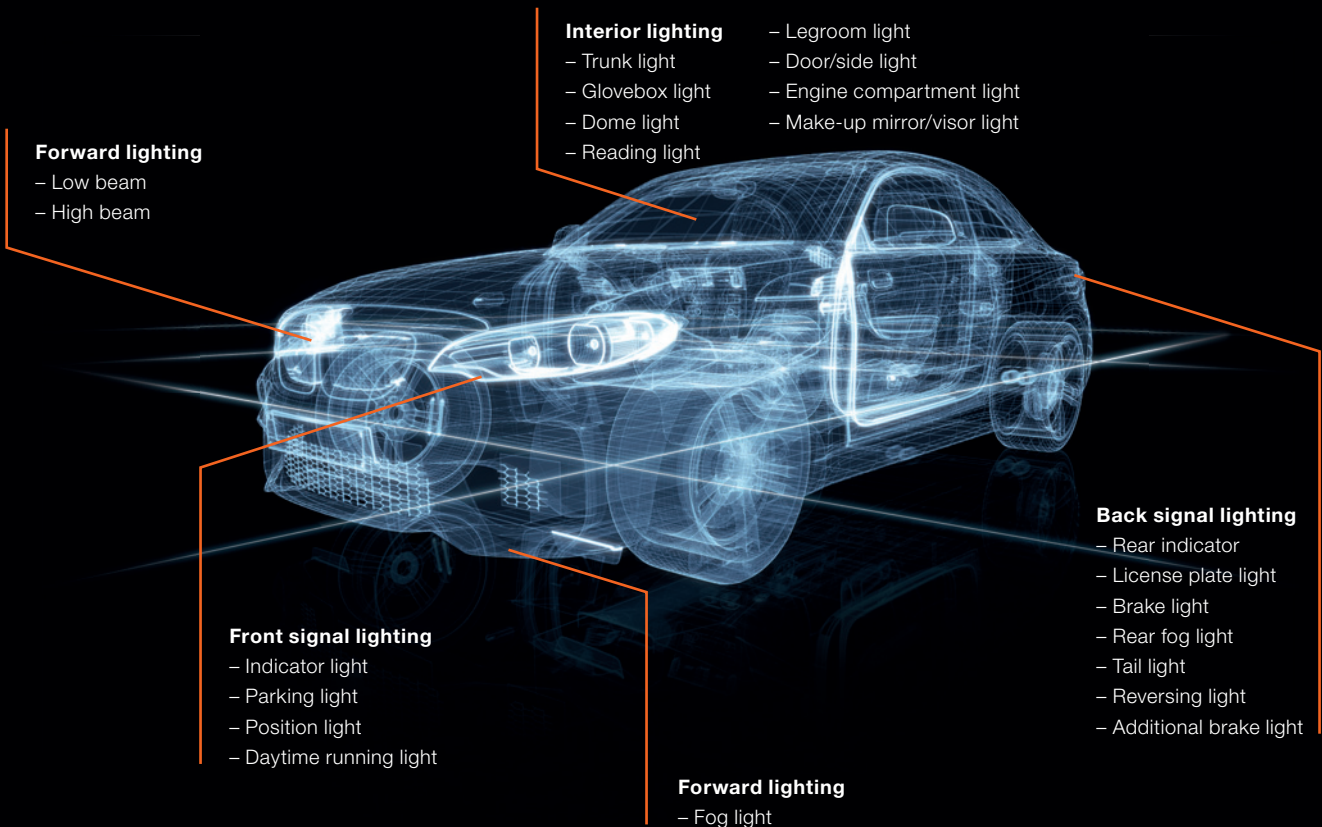
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FORWARD LIGHTING		SIGNAL LIGHTING		INTERIOR LIGHTING
High and low beam headlights	Fog lights	Front signal lighting	Back signal lighting	
OSRAM LEDriving® HL	OSRAM LEDriving® FL	OSRAM LEDriving® PREMIUM SL/SL	OSRAM LEDriving® PREMIUM SL/SL	OSRAM LEDriving® PREMIUM SL/SL



Step up to the next level

With OSRAM LEDriving® HL and FL for forward lighting

Impressing in terms of design as well as performance, LED lamps from OSRAM for forward lighting offer convenient solutions to upgrade the existing system with cool white LED light. The top-quality LED replacement lamps are equipped with the latest technology and are compatible with a wide range of car models. They increase your visibility with superior brightness and improve your style with a dynamic look.

See and be seen:
OSRAM LEDriving® HL for high and low beam headlights

Features¹⁾

- Cool White color temperature of 6,000 K
- Superior brightness
- Very compact LED replacement for conventional H4, H7, HB4 and H11²⁾ high and low beam lamps
- Premium OSRAM quality made in Italy
- Long lifetime of up to 5,000 h
- Integrated electronics, no external driver

Benefits¹⁾

- Better visibility thanks to daylight effect (see image on the top right)
- More light allows drivers to see farther and therefore react sooner. Signs, obstacles and hazards can be recognized sooner.
- Reduced glaring thanks to an optimized light distribution
- 5-year guarantee³⁾
- More durability due to LED technology
- Simple installation with adapter
- Improved compatibility thanks to compact dimensions



Homogeneous light: Compared to conventional halogen lamps (left), OSRAM LEDriving® HL lamps (right) offer an optimized light distribution that reduces glaring.



See farther, react sooner: With OSRAM LEDriving® HL lamps (bottom), everything that lies ahead of the car can be recognized earlier.



Daylight in the night: With a daylight-like color temperature of 6,000 K, OSRAM LEDriving® HL and FL lamps (right) provide a higher contrast and thus improve visibility.

**Fight fog, rain and snow with brightness:
OSRAM LEDriving® FL for fog lights**

Features¹⁾

- Cool White color temperature of 6,000 K
- Superior brightness
- Ultra-compact LED replacement for conventional H8/H11²⁾/H16 and H10 fog lamps as socket solution
- Premium OSRAM quality

Benefits¹⁾

- Better visibility in foggy situations with a perfect color match for xenon and LED headlights. Signs, obstacles and hazards can be recognized sooner.
- More light allows drivers to see farther and therefore react sooner with reduced glaring thanks to an optimized light distribution
- Simple plug & play installation with optimized compatibility
- 3-year guarantee³⁾



Making a difference: OSRAM LEDriving® FL lamps (right) do not only look cooler than conventional halogen lamps (left). They also provide more light.



1) These products do not have ECE approval. This means they must not be used on public roads in any exterior application. Use on public roads leads to cancellation of operating license and loss of insurance coverage. Several countries do not allow sale and use of these products. Please contact your local distributor for information on the availability in your country.
2) LEDriving® CANBUS CONTROL UNIT avoids error messages on the board computer when using LED lamps within 50W (LEDCBCTRL103) applications.
3) Refer to www.osram.com/am-guarantee for precise conditions.



Find out which car models are compatible with OSRAM LEDriving® HL lamps at www.osram.com/ledcheck!

Stand out with style and quality

With OSRAM LEDriving® PREMIUM SL and LEDriving® SL for signal and interior lighting

LED signal lamps from OSRAM are the jewelry that makes your car shine. The rear lamps also contribute to the safety of the car: They allow for faster signals, so the reaction time of drivers behind the vehicle is increased. Inside the car, OSRAM LEDriving® PREMIUM SL and LEDriving® SL help you to create modern light effects – from dome light to foot area, from glovebox to trunk. The LED light is refreshing, attractive and pleasant, and has an appealing contemporary touch.

OSRAM LEDriving® PREMIUM SL for signal and interior lighting

Features^{1) 2)}

- High color temperatures of up to 6,000 K
- Superior brightness
- Replace conventional signal lamps for exterior application or lamps for interior application
- Premium OSRAM quality
- Long lifetime of up to 5,000 h, shockproof and vibration-proof with up to 80 % less energy consumption³⁾

Benefits^{1) 2)}

- Wide range of different light colors for a variety of customization options
- Faster signals provide more reaction time for drivers behind you
- Smart electronics for easy installation
- 6-year guarantee⁴⁾
- More durability and very energy-efficient
- Simple plug & play installation





OSRAM LEDriving® replacement lamps | Light is the perfect upgrade

OSRAM LEDriving® SL for signal and interior lighting

Features^{1) 2)}

- High color temperatures of up to 6,000 K
- High brightness
- Replace conventional signal lamps for exterior application or lamps for interior application
- OSRAM quality
- Long lifetime of up to 2,500 h with low energy consumption

Benefits^{1) 2)}

- Multiple light colors for a variety of customization options
- Non-selective illumination thanks to homogeneous light distribution
- Simple plug & play installation
- 4-year guarantee⁴⁾
- Durable and energy-efficient

What's the difference between OSRAM LEDriving® PREMIUM SL and LEDriving® SL lamps?

For signal and interior lighting, OSRAM offers two LED product ranges that mainly differ in terms of brightness level, electronic features, quality level, lifetime, guarantee and packaging design. As their name suggests, OSRAM LEDriving® PREMIUM SL offer the better performance levels. However, if your customers want to have a modern LED look for an affordable price without compromising on reliability, OSRAM LEDriving® SL lamps are the ideal choice.

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2) LEDriving® CANBUS CONTROL UNIT avoids error messages on the board computer when using LED lamps within 5 W (LEDCBCTRL101) or 21 W (LEDCBCTRL102) applications.

3) Compared with conventional lamps.

4) Refer to www.osram.com/am-guarantee for precise conditions.

OSRAM LEDriving® replacement lamps






















































































Exchange overview for forward lighting^{1) 2)}

			Conventional lamps	OSRAM LEDriving® HL		
	V	Application	Product reference	Product reference	K	
P43t (H4)	12/24		64193 	9726CW 	6000	
PX26d (H7)	12/24		64210 	67210CW 	6000	
PGJ19-2 (H11)	12/24		64211 	67211CW 	6000	
P22d (HB4)	12/24		9006 	9736CW 	6000	
			Conventional lamps	OSRAM LEDriving® FL		
PGJ19-1 (H8) PGJ19-2 (H11) PGJ19-3 (H16)	12		64212 64211 64219 	67219CW 	6000	
PY20d (H10)	12		9145 	9745CW 	6000	




























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2) LEDriving® CANBUS CONTROL UNIT avoids error messages on the board computer when using LED lamps within 5W, 21W or 50W applications.

Exchange overview for signal and interior lighting^{1) 2)}

			Conventional lamps	OSRAM LEDriving® PREMIUM SL			OSRAM LEDriving® SL		
	V	Application	Product reference	Product reference	K		Product reference	K	
SV8.5-8 31mm	12	         	6438 	6497CW 6497WW 	6000 4000 	6431CW 6431BL 	6000 		
SV8.5-8 36mm (C5W)	12	         	6418 6461 6486X 	6498CW 6498WW 	6000 4000 	6436CW 6436BL 	6000 		
SV8.5-8 41mm	12	         	6411 6413 	6499CW 6499WW 	6000 4000 	6441CW 6441BL 	6000 		
W2.1x9.5d (W5W)	12	           	2820 2821 2825 2829X 2885X 2886X 2888 	2850CW 2850WW 2855YE 2850BL 	6000 4000 	2880CW 2880R 2880YE 2880BL 2880GR 	6000 		
	12	       	2827 	2855YE 		2880YE 			
	24	   	2845 2840 	2824CW 2824WW 	6000 4000 				






























Exchange overview for signal and interior lighting^{1) 2)}

			Conventional lamps	OSRAM LEDriving® PREMIUM SL	OSRAM LEDriving® SL
	V	Application	Product reference	Product reference	K 
BA9s (T4W)	12	       	3893 3796 64111 64113 64115	3850CW 3850WW	6000 4000
	24		3797 3930	3924CW 3924WW	6000 4000
W2.5x16d (P27W)	12	  	3156 3156K	3557CW 3557R 3557YE	6000
W2.5x16q (P27/7W)	12	     	3157 3157K	3557CW 3557R 3557YE	6000
WX2.5x16d (P27d)	12		3757A 3757NAK	3557YE	6000
BA15s (P21W)	12	     	7506 1156	7556CW 7556R 7556YE	6000
BAU15s (PY21W)	12		7507	7557YE	

Find out more online

Visit www.osram.com/ledupgrade to discover our complete portfolio.



Exchange overview for signal and interior lighting^{1) 2)}

			Conventional lamps	OSRAM LEDriving® PREMIUM SL			OSRAM LEDriving® SL		
	V	Application	Product reference	Product reference	K		Product reference	K	
BAY15d (P21/5W)	12	       	7528 	1557CW 1557R 1557YE 	6000		1458CW 1458R 1458YE 	6000	
W3x16d (W21W)	12	       	7505 	7905CW 7905R 7905YE 	6000		7706CW 7706R 7706YE 	6000	
WX3x16d (WY21W)	12		7504 	7905YE 			7706YE 		
W3x16q (W21/5W)	12	     	7515 	7915CW 7915R 7915YE 	6000		7716CW 7716R 7716YE 	6000	
W2.1x9.5d (W16W)	12	      	921 921K 	9213CW 9213R 	6000		9212CW 	6000	
PG20-1 (PS19W)	12		5201 	5301CW 	6000		3301CW 	6000	
PG18.5d-1 (P13W)	12			5828CW 	6000		3828CW 	6000	











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





Color information

	Use behind red glass	Use behind clear glass	Use behind amber glass
LED color			
 Red (tail light, brake light)	Yes	Not recommended	Not recommended
 White (daytime running light, reversing light, license plate light, parking light)	Not recommended	Yes	Not recommended
 Amber (indicator light, side marker light)	Not recommended	Yes	Yes

Choosing the right color LED lamp can affect the quality and intensity of light output on your vehicle.

Available color options	
OSRAM LEDriving® PREMIUM SL	OSRAM LEDriving® SL
 Cool White	 Cool White
 Warm White	 Blue
 Blue	 Amber
 Amber	 Red
 Red	 Green

Application information

	Low beam		Dome light
	High beam		Glovebox light
	Daytime running light		Legroom light
	Fog light		Reading light front
	Rear fog light		Reading light behind
	Indicator light		Make-up mirror/visor light
	Tail light		Door/side light
	Reversing light		Trunk light
	Parking/marketing light/position light		Engine compartment light
	Brake light/third braking light		
	Additional brake light		
	License plate light		

Learn more about OSRAM LEDriving® replacement lamps¹⁾

Frequently asked questions (FAQ)

What are the benefits of LED lamps?

LED lamps offer a multitude of advantages, including their distinctive cool white light, which gives cars a modern look. Thanks to their instant light output, they provide faster signals and thus enable drivers behind you to react faster. In addition, they are characterized by their long lifetime and high energy efficiency compared to conventional lamps.

How do I replace a conventional lamp with an LED lamp? Is it difficult?

OSRAM LEDriving® FL and SL replacement lamps are plug & play solutions with conventional lamp bases. This makes their replacement as easy as it gets. OSRAM LEDriving® HL high and low beam replacement lamps can be easily installed with an adapter. However, there are specific vehicle restrictions for them. Please read the respective user manual and have a look at the compatibility overview, which you can find at www.osram.com/ledcheck.

The LED lamp does not turn on after installation. How do I fix this problem?

This problem only affects lamps from our LEDriving® HL and LEDriving® SL product ranges. Check the lamp's polarity and its contacts for corrosion. If your LED lamp does not turn on, you probably need to:

1. Remove the LED lamp from the housing.
2. Rotate the lamp by 180°.
3. Put it back in the housing.
4. Make sure the LED is on.

For more information, please refer to the user manual.

What is the LEDriving® CANBUS CONTROL UNIT?

Due to their higher level of energy efficiency, LEDriving® replacement lamps use significantly less power than traditional lamps. This lack of power consumption could be interpreted as a broken lamp by the body control unit. The LEDriving® CANBUS CONTROL UNIT serves as a bypass of a vehicle's lamp failure detection system when using a LEDriving® replacement lamp without compromising on the lamp's performance or lifetime. The control unit is easily installed and is suitable for most vehicle models with an automatic lamp failure detection system.

Are LEDriving® replacement lamps compatible for 12V and 24V use?

LEDriving® replacement lamps for signal lighting are compatible for cars and motorcycles. We offer dedicated solutions for 24 V signal lighting. While LEDriving® HL high and low beam lamps are compatible with 12 V and 24 V vehicles, LEDriving® FL fog lamps are only designed for 12 V application.

Are the LEDriving® HL lamps compatible with all headlight systems with conventional lamps?

LEDriving® HL high and low beam lamps do have limitations in terms of compatibility. Please consult our vehicle overview at www.osram.com/ledcheck to see if LEDriving® HL are compatible with your vehicle.

What are possible applications of LEDriving® replacement lamps?

Forward lighting:

- High and low beam headlight
- Fog light

Signal lighting:

- Parking/marketing light/position light
- Indicator light
- Door/side light
- Tail light
- Brake light
- License plate light and more

Interior lighting:

- Dome light
- Reading light
- Dashboard light
- Glovebox light
- Legroom light
- Trunk light and more

Visit www.osram.com/ledupgrade to read our complete FAQ!



Find out which car models are compatible with OSRAM LEDriving® HL lamps at www.osram.com/ledcheck!

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**All you need to know about automotive lighting –
and more**

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