J.W. SPEAKER®

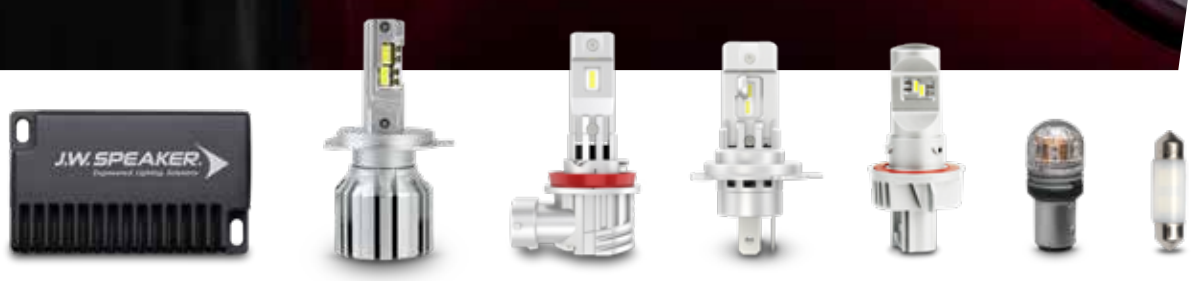
BULB RANGE
CATALOGUE

Version 2

LED Lighting

LED Bulb Kits //
LED Canbus Technology //
LED Signalling //





J.W. SPEAKER®
Engineered. Lighting. Solutions.

LED BULB KIT PERFORMANCE

ADVANTAGES TO UPGRADING FROM HALOGEN TO LED

If you're considering upgrading your or your customer's headlights from halogen to LED technology, look no further than the range of J.W. Speaker LED bulb kits.

Engineered to have a smooth, even and bright beam pattern, these LED bulbs are an easy sell when you consider the other benefits they bring to your driving.

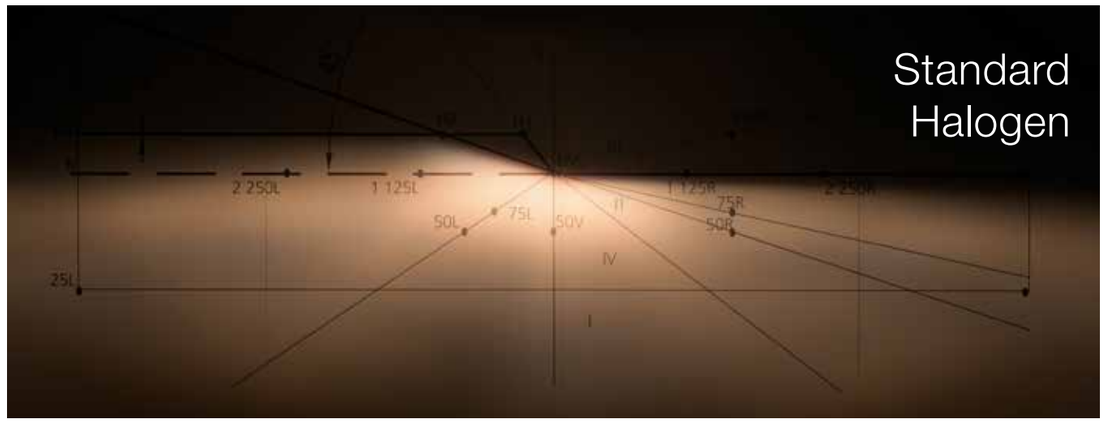
White Light

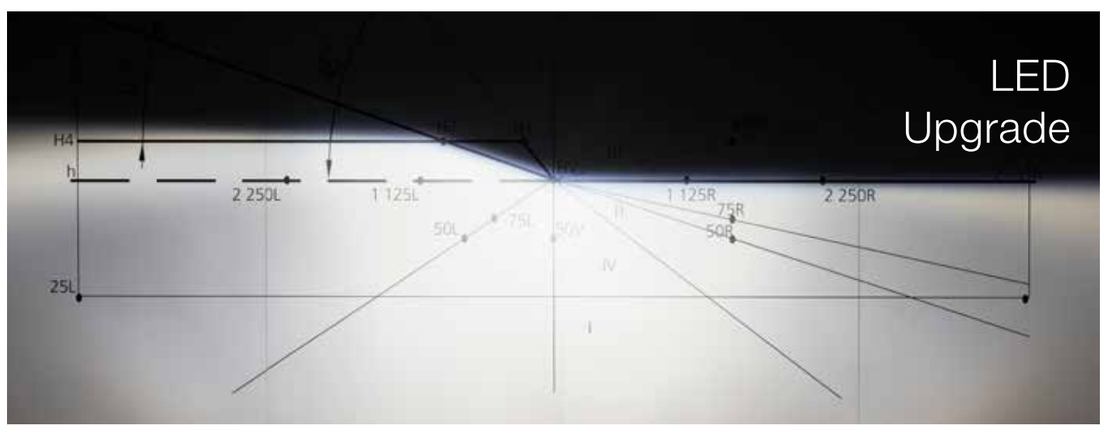
Halogen upgrade globes create a white light by applying a heavy blue coating to the glass. While this improves the light colour, it dramatically reduces the light output and life expectancy. LED delivers a much whiter light without the same limitations as the LED chip generates the precise white colour instead.

Long Life

Standard halogen bulbs are expected to last around 500 hours and a long life upgrade around 1,500 hours. Depending on how often you're using your headlight bulbs, this could mean you're changing headlight bulbs as often as every 3 months.

Current technology allows LED bulb kits to last for years which is why J.W. Speaker back these products with such impressive warranty periods. Not only do they last a long time, they are also more resistant to physical and electrical shock which is a major cause of halogen bulbs failing.





CATALOGUE CONTENTS

LED BULB KIT 12V
PERFORMANCE UPGRADE WITH BUILT IN CANBUS
5000 RAW LUMENS PER BULB
Pages 2 - 3

LED BULB KIT 12-24V
PREMIUM HALOGEN REPLACEMENT
2500 RAW LUMENS PER BULB
Pages 4 - 5

LED BULB KIT 12-24V
HALOGEN REPLACEMENT
2000 RAW LUMENS PER BULB
Pages 6 - 7

LED BULB KIT 12-24V
XENON HID REPLACEMENT
UP TO 4500 RAW LUMENS PER BULB
Page 8

LED BULB KIT 12V
VEHICLE & BEAM SPECIFIC
VOLKSWAGEN H7 LOW BEAM KIT
Page 9

LED CANBUS TECHNOLOGY
SUITABLE FOR DIRECT FIT & DIRECT FIT PLUS V2 LED BULBS
Pages 10 - 11

LED SIGNALLING
BAYONET, FESTOON, WEDGE & RESISTOR
Pages 12 - 17

EVO10K

LED BULB KIT 12V

PERFORMANCE UPGRADE WITH BUILT IN CANBUS

5000 RAW LUMENS PER BULB



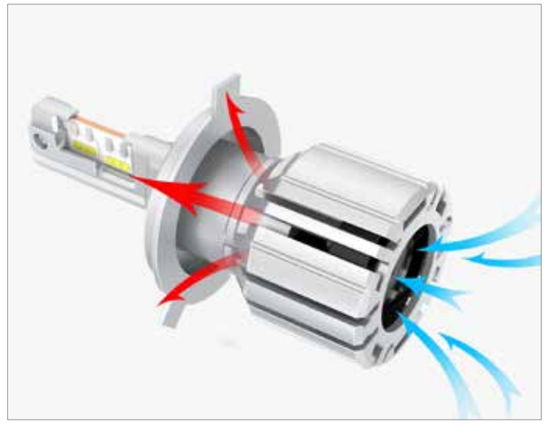
LED technology has come a long way in recent years and this new flagship range, the EVO10K, does not hold back when it comes to pure performance.

Powered by an external driver module with built in CANbus, the EVO10K range is ready to light up the night.

Note: The EVO10K range replaces the Model 4000 range.

Key changes / additions from Model 4000

- *Built in CANbus*
  Suitable for most vehicles with known CANbus problems like Ford Ranger, Mazda BT-50 and Holden Colorado to name a few.
- *Substantially increased light output*
  We move from 2000 lumens per bulb in the Model 4000 all the way up to 5000 lumens per bulb.
- *High strength fan cooling & TST (Thermoelectric separation technology)*
  The addition of a high strength fan and TST is vital as the light output is pushed to exciting new levels. TST has proven success in the standard Direct Fit range, showcasing the superior cooling capabilities.



EVO10K COOLING EXPLAINED

Instead of using PCBs (printed circuit board) and thermal silicone like other LED bulbs, TST sees the attachment of the LED chips directly to the alloy shaft of the bulb to allow for a more even distribution of heat.

The high strength intake fan draws cooler ambient air from outside the projector or reflector and into the base of the bulb, lowering the overall temperature of the bulb in the process.

These cooling features ultimately reduce the strain on the LED chips and lead to a longer life and more stable beam performance.

POWERING THE EVO10K

An external power module was required to achieve a stable, high output beam pattern. This module also contains CANbus support which will allow these bulbs to function to their full ability in known problematic vehicles.



EVO10K SPECIFICATIONS - NOT APPROVED FOR ADR, ECE or DOT

VOLTAGE	POWER	LIGHT OUTPUT	COLOUR	KIT CONTENTS	WARRANTY
12V	50W Beam	5000 Raw Lumens Per Bulb	5700K White	2 x LED Bulbs EVO10K	2 Years



H4

Part: 980004



H7

Part: 980007



H11

Part: 980011



HB3

Part: 980005

LED BULB KIT 12-24V

PREMIUM HALOGEN REPLACEMENT

2500 RAW LUMENS PER BULB



Version 2 of the Direct Fit Plus range sees a complete re-design from the first version of the product, utilising the most current and effective technologies available.

Key changes / additions from V1

- *12-24V Multivolt*
  The range now becomes an option for 24V vehicles. The increased voltage band also improves compatibility in 12V vehicles that produce over-voltage from the battery system.

- *Improved thermal management*
  Airflow has been improved to further reduce LED chip heat, leading to even longer life expectancy. This is an important change for professional users who have their lights on for longer periods of time.

- *Double sided eutectic technology*
  That may sound like a mouth full, but in simple terms, the circuit board is now only 0.6mm thick, leading to a more precise focal point for the beam. This product is as true to halogen sizing as technologically possible which means they will perform exceptionally well in both reflector and projector headlights.



IDENTICAL FITMENT
TO HALOGEN BULB

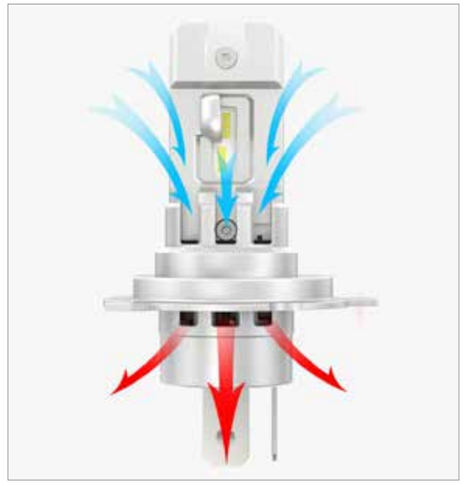


The sizing of the Direct Fit Plus V2 bulbs are as identical to Halogen sizing as possible.

The H7 specifically is compatible with most unique H7 retaining systems and headlights due to the specific collar design and bulb size.







DIRECT FIT PLUS V2 COOLING EXPLAINED

The newest double-sided eutectic technology reduces the amount of heat generated from the LED chips by two and a half times compared to traditional methods.

The internal copper board conducts a large amount of the heat generated, spreading it evenly through the bulb. The heat is then captured by the high-speed, silent fan and exhausted out the base of the bulb and away from the headlight.

These features are important in keeping the bulb cool to help maintain stable beam performance. Whether you're commuting to and from the office or a long haul truck driver using your lights through the night, the Direct Fit Plus V2 is designed to last.



IMPORTANT NOTE FOR H4 VEHICLES

Some rubber dust caps used on H4 headlights will cover the exhaust vents on the base of the new H4 Direct Fit Plus V2 bulb.

If you have a dust cap that looks like the one in the image to the left, you will likely need to trim a minimum of 5mm away from the rubber seal, highlighted in red.

There should be plenty of rubber left to fit snug around the base of the bulb, so this modification will not compromise the integrity of the weather seal.

DIRECT FIT PLUS V2 SPECIFICATIONS - NOT APPROVED FOR ADR, ECE or DOT

VOLTAGE	POWER	LIGHT OUTPUT	COLOUR	KIT CONTENTS	WARRANTY
12-24V	21W Beam	2500 Raw Lumens Per Bulb	5700K White	2 x LED Bulbs Direct Fit Plus V2	2 Years



H4 / H19	H7 / H18	H11 / H8 H9 H16	HB3	HB4
Part: 970004	Part: 970007	Part: 970011	Part: 970005	Part: 970006

DIRECT FIT

LED BULB KIT 12-24V

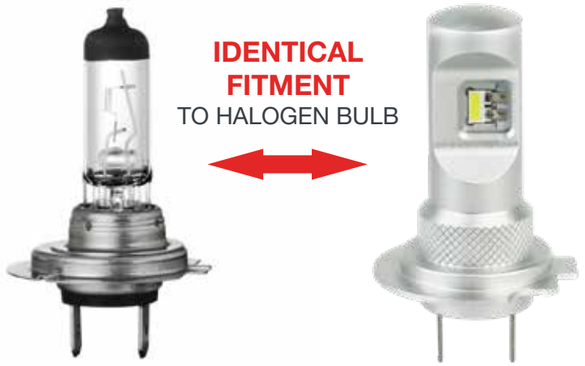
HALOGEN REPLACEMENT

2000 RAW LUMENS PER BULB

J.W. Speaker Direct Fit continues to be one of the most popular ranges of LED headlight bulbs in the market.

When it comes to cost vs light output and performance, these products are unmatched.





IDENTICAL FITMENT
TO HALOGEN BULB

The sizing of the Direct Fit bulbs are as identical to Halogen sizing as possible.

The H7 specifically is compatible with most unique H7 retaining systems and headlights due to the specific collar design and bulb size.



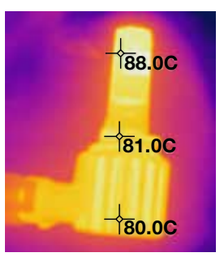


DIRECT FIT COOLING EXPLAINED

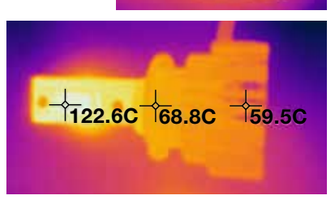
Instead of using PCBs (printed circuit board) and thermal silicone like most LED bulbs, TST sees the attachment of the LED chips directly to the alloy shaft of the bulb. This process allows for a more even distribution of heat, ultimately reducing the strain on the LED chips and leading to longer life and a more stable beam performance.

These diagrams show the heat readings on a traditional LED bulb vs the Direct Fit bulb using TST cooling. The TST cooling measures a heat difference of only 8°C between LED chips and the base of the bulb where as the standard LED bulb measures more than ***DOUBLE*** the heat difference of base to chips.

J.W. SPEAKER DIRECT FIT LED BULB WITH TST



STANDARD LED BULB WITH PCB & SILICONE



DIRECT FIT SPECIFICATIONS - NOT APPROVED FOR ADR, ECE or DOT

VOLTAGE	POWER	LIGHT OUTPUT	COLOUR	KIT CONTENTS	WARRANTY
12-24V	18W Beam	2000 Raw Lumens Per Bulb	5700K White	2 x LED Bulbs Direct Fit	2 Years



H1
Part: 999001



H3
Part: 999003



H4 / H19
Part: 999004



H7 / H18
Part: 999007



H11 / H8 H9 H16
Part: 999011



H13
Part: 999013



H15
Part: 999015



H27 (880 / 881)
Part: 999881



HB3
Part: 999005



HB4
Part: 999006



HB1 (9004)
Part: 999016



HB5 (9007)
Part: 999017



HIR2
Part: 999012

The following products have adjustable mounting, using the supplied allen key:

HB3, HB4, H11, HIR2, H13, H15, HB1 & HB5

Please note that the LED bulbs are designed to match industry standards of halogen bulbs, but due to the nature of LED technology, sometimes adjustment is required to reach a desired beam pattern.

LED BULB KIT 12-24V

XENON HID REPLACEMENT

UP TO 4500 RAW LUMENS PER BULB



Headlights that use Xenon bulbs are typically designed with that bulb in mind and allow almost no extra space for aftermarket products and the other components they tend to come with.

This is where the Direct Fit range really shines, offering a comprehensive selection of Xenon base types as LED replacements that are identical in size and fitment and connect directly to the OEM ballast.

DIRECT FIT XENON SPECIFICATIONS - NOT APPROVED FOR ADR, ECE or DOT

VOLTAGE	POWER	LIGHT OUTPUT	COLOUR	KIT CONTENTS	WARRANTY
12-24V	45W Beam 25W For D5	4500 Raw Lumens Per Bulb 3000 For D5	5700K White	2 x LED Bulbs Direct Fit Xenon	2 Years



D1
Part: 999000D1



D2
Part: 999000D2



D5
Part: 999000D5

D3
Part: 999000D3

D8
Part: 999000D8

D4
Part: 999000D4

LED BULB KIT 12V

VEHICLE & BEAM SPECIFIC

VOLKSWAGEN H7 LOW BEAM KIT



The 999007VW is unique in that it is designed specifically to replace Volkswagen H7 low beam bulbs that use a very specific clip-in system. This system has been used in other vehicles by other manufacturers but it has been predominantly used by Volkswagen.

A key feature with this range is that it has built in CANbus technology, meaning the LED bulb will be able to communicate with the vehicle without causing any errors or fault codes.

VEHICLE FITTING GUIDE

Volkswagen vehicles from 2010 onwards

- EOS
- Golf VI
- Golf VII
- Jetta VI
- Tiguan 1
- Tiguan 2

Note: This product does **not** fit the Golf 7.5 (2019 onwards)

Non Volkswagen Vehicles

- 2018 Mercedes Vito Van (Low Beam)

DIRECT FIT VW SPECIFICATIONS - NOT APPROVED FOR ADR, ECE or DOT

VOLTAGE	POWER	LIGHT OUTPUT	COLOUR	KIT CONTENTS	WARRANTY
12V Only	20W Beam	2500 Raw Lumens Per Bulb	6200K White	2 x LED Bulbs Direct Fit VW	2 Years



H7 VW
Part: 999007VW



CANBUS KIT

LED CANBUS TECHNOLOGY

SUITABLE FOR DIRECT FIT & DIRECT FIT PLUS V2 LED BULBS

Some vehicle electronic systems may conflict with the LED bulb. There are a limited number of vehicles who's electronic systems may require the addition of a CANbus unit during installation.

The CANbus unit will allow the vehicles electronics to accept the LED bulb into its system.

One simple way of checking if your vehicle is monitoring your headlight bulbs is to:

1. With the vehicle turned off, carefully disconnect one of the headlight bulbs you are looking to replace with an LED product.
2. Start your vehicle and turn on your headlights, switching to the beam / bulb you are wanting to test. For thorough testing, switch between low and high beam multiple times.



3. If you are receiving a 'globe out' warning light similar to the above or a fault message anywhere inside your vehicle, you will require a CANbus product to aid in a successful bulb installation.

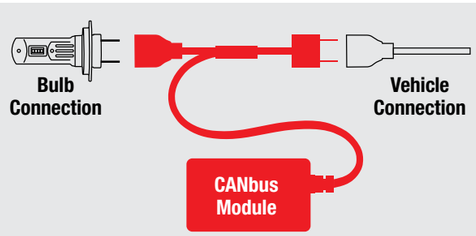
Kit Contains
2 × CANbus Modules

Warranty
1 Year





Installation Diagram



CANbus Options

Part No.	Base	Voltage
990001CB	H1 / H3	12V
990004CB	H4	12V
990004CB24	H4	24V
990005CB	HB3 / HB4 / H10 / HIR2	12V
990007CB	H7	12V
990007CB24	H7	24V
990011CB	H8 / H9 / H11 / H16 / H27	12V



KNOWN CANBUS VEHICLES

Many vehicles will not require a CANbus kit to be installed, however there are a few vehicles that have been confirmed to require something to allow the bulbs to function properly. If you have a vehicle shown below or have come across an issue with a vehicle not listed here, please call Invision Sales for CANbus advice.

- Ford Ranger
- Ford Focus & Mondeo
- Mazda BT-50
- BMW 5 Series & X3
- Holden VF Commodore
- Holden Colorado & Trailblazer
- Nissan Navara
- Nissan Patrol
- Toyota Hilux
- Toyota Landcruiser & Prado
- Jeep - Most Models
- Audi Q7 & TT

SIGNAL & INTERIOR
INCANDESCENT REPLACEMENT

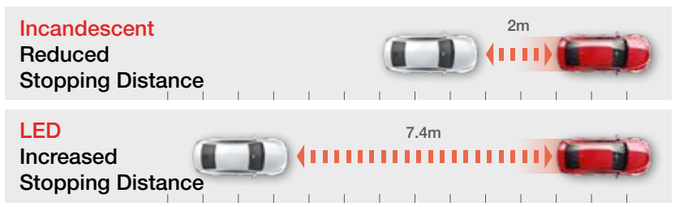
Aside from the known benefits of increased life, LED Signalling bulbs actually offer one more vital upgrade over standard incandescent bulbs which is ‘activation speed’.

Something people don’t often consider is the speed at which a bulb reaches full illumination. Traditional signalling bulbs take time to ignite and reach full output, compared to LED bulbs which reach maximum intensity almost instantaneously.

This means that the LED bulb can be ‘seen’ much quicker than the incandescent bulb and in a traffic situation where milliseconds can make the difference, LED bulbs are the safest choice.



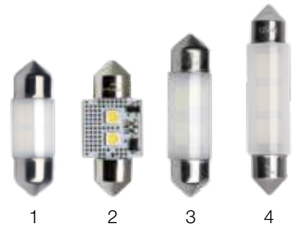
THE NEAR INSTANTANEOUS ILLUMINATION OF LED GIVES DRIVERS MORE TIME TO STOP



With LED bulbs, the driver sees the brake lights earlier and gains a vital 5.4m stopping distance.

Based on a vehicle travelling at 100km/h.





FESTOON - RETAIL / HANG PACK

Part No.	Base	Colour	Bulb Type	Lumen	Pack Qty.	Voltage	Pic
990100	SV8.5 / 31mm	White 6000K	C5W	68LM	1	12V	1
990100CB	SV8.5 / 31mm (CANbus)	White 6000K	C5W	70LM	1	12V	2
990102	SV8.5 / 36mm	White 6000K	C10W	68LM	1	12V	3
990103	SV8.5 / 36mm	White 6000K	C10W	68LM	1	24V	3
990104	SV8.5 / 41mm	White 6000K	C21W	68LM	1	12V	4

FESTOON - TRADE / BULK PACK

Part No.	Base	Colour	Bulb Type	Lumen	Pack Qty.	Voltage	Pic
990100-5	SV8.5 / 31mm	White 6000K	C5W	68LM	5 Boxed	12V	1
990102-5	SV8.5 / 36mm	White 6000K	C10W	68LM	5 Boxed	12V	3
990103-5	SV8.5 / 36mm	White 6000K	C10W	68LM	5 Boxed	24V	3
990104-5	SV8.5 / 41mm	White 6000K	C21W	68LM	5 Boxed	12V	4



DOME LIGHT - RETAIL / HANG PACK

Part No.	Size	Colour	Bulb Type	Lumen	Pack Qty.	Voltage	Pic
990150	27 x 15mm	White 6000K	Dome Light (Wedge, Bayonet & Festoon)	120LM	1	12V	1
990151	35 x 27mm	White 6000K	Dome Light (Wedge, Bayonet & Festoon)	310LM	1	12V	2

CONNECTION OPTIONS



990150 & 990151 are both dome lights that can be used to upgrade your standard interior light to a high output option.

Both products come with connection adaptors for bayonet, wedge and festoon.

BAYONET
RETAIL / HANG PACK


1 2 3 4 5 6

Part No.	Base	Colour	Bulb Type	Lumen	Pack Qty.	Voltage	Pic
990140	BA15s	White 6000K	P21W	360LM	2	12V–24V	1
990142	BAU15s	Amber	PY21W	250LM	2	12V–24V	1
990142CB	BAU15s (CANbus)	Amber	PY21W	1400LM	2	12V	2
990144	BAY15d	Red	P21/5W	120/60LM	2	12V–24V	3
990144W	BAY15d	White 6000K	P21/5W	360/120LM	2	12V–24V	3
990145	BA15s	White 6000K	R5W & R10W	280LM	2	12V–24V	4
990147	BA9s	White 6000K	T4W	68LM	2	12V	5
990148	BA9s	White 6000K	T4W	68LM	2	24V	5
Reversing							
990140HO	BA15s	White 6000K	P21W	700LM	2	12–24V	6

BAYONET - TRADE / BULK PACK

Part No.	Base	Colour	Bulb Type	Lumen	Pack Qty.	Voltage	Pic
990140-5	BA15s	White 6000K	P21W	360LM	5 Boxed	12V–24V	1
990142-5	BAU15s	Amber	PY21W	250LM	5 Boxed	12V–24V	1
990144-5	BAY15d	Red	P21/5W	120/60LM	5 Boxed	12V–24V	3
990144W-5	BAY15d	White 6000K	P21/5W	360/120LM	5 Boxed	12V–24V	3
990145-5	BA15s	White 6000K	R5W & R10W	280LM	5 Boxed	12V–24V	4
990147-5	BA9s	White 6000K	T4W	68LM	5 Boxed	12V	5


5W


25W

RESISTOR - RETAIL / HANG PACK

Part No.	Type	Pack Qty.	Voltage
990160	5W	2	12V
990161	25W	2	12V
990165	25W	2	24V

RESISTOR - TRADE / BULK PACK

Part No.	Type	Pack Qty.	Voltage
990161-5	25W	5 Boxed	12V

Note: A CANbus resistor may be required on some vehicles when fitting this signalling range.
Please consult a qualified Auto Electrician if you experience issues.

WEDGE
RETAIL / HANG PACK


1 2 3 4 5 6 7 8

Part No.	Base	Colour	Bulb Type	Lumen	Pack Qty.	Voltage	Pic
990108	T5	White 6000K	W1.2W	35LM	2	12V	1
990109	T5	Blue	W1.2W	5LM	2	12V	1
990110	T10	White 6000K	W5W	65LM	2	12V	2
990111	T10	White 6000K	W5W	65LM	2	24V	2
990112	T10	Amber	WY5W	65LM	2	12V	2
990113	T10	Blue	W5W	65LM	2	12V	2
990114	T10 (CANbus)	White 6000K	W5W	98LM	2	12V	3
990120	T16	White 6000K	W16W	350LM	2	12V–24V	4
990122	T16	Amber	WY16W	250LM	2	12V–24V	4
990124	T20	White 6000K	W21W	360LM	2	12V–24V	5
990126	T20	Amber	WY21W	250LM	2	12V–24V	5
990126CB	T20 (CANbus)	Amber	WY21W	1400LM	2	12V	6
990128	T20	White 6000K	W21/5W	360/120LM	2	12V–24V	5
990130	S8	White 6000K	3157	360/120LM	2	12V–24V	7
990132	S8	Amber	3157	253/88LM	2	12V–24V	7

WEDGE - TRADE / BULK PACK

Part No.	Base	Colour	Bulb Type	Lumen	Pack Qty.	Voltage	Pic
990108-5	T5	White 6000K	W1.2W	35LM	5 Boxed	12V	1
990110-10	T10	White 6000K	W5W	65LM	10 Boxed	12V	2
990111-5	T10	White 6000K	W5W	65LM	5 Boxed	24V	2
990114-5	T10 (CANbus)	White 6000K	W5W	98LM	5 Boxed	12V	3
990120-5	T16	White 6000K	W16W	350LM	5 Boxed	12V–24V	4
990124-5	T20	White 6000K	W21W	360LM	5 Boxed	12V–24V	5
990126-5	T20	Amber	WY21W	250LM	5 Boxed	12V–24V	5
990128-5	T20	White 6000K	W21/5W	360/120LM	5 Boxed	12V–24V	5
990130-5	S8	White 6000K	3157	360/120LM	5 Boxed	12V–24V	7

Signalling Bulb Kit Warranty

2 Year – Standard Driving Conditions: For normal day to day driving & recreational 4X4.

1 Year – Off-Highway: For mining and industrial applications.

This product range is **not approved for ADR, ECE or DOT**

LED GRAB KITS
INCANDESCENT REPLACEMENT

Two different sized grab kits have been released by J.W. Speaker to service automotive workshops that frequently upgrade vehicles from standard incandescent bulbs to LED. The kits contain the most popular and commonly used products at a competitive price point in varying bulk quantities.







A parts re-order list can be found on the inside of the lid.

The part numbers and quantities listed are of the trade / bulk packs, not the quantities supplied in the kit originally.

Part No.	Description
JWSGK1	LED Signalling Grab Kit - Small (14 Products / 58 Pieces Included)
JWSGK2	LED Signalling Grab Kit - Large (20 Products / 78 Pieces Included)

JWSGK1 - SMALL KIT CONTENTS

Part No.	Description	Qty
990100	Festoon (31x10.5) 12V 6000K 68lm	5
990102	Festoon (36x10.5) 12V 6000K 68lm	5
990104	Festoon (41x10.5) 12V 6000K 68lm	5
990110	Wedge W5W / T10 12V 6000K 65lm	10
990111	Wedge W5W / T10 24V 6000K 65lm	5
990114	Wedge W5W / T10 CANBUS 12V 6000K 98lm	5
990120	Wedge W16W / T16 12V-24V 6000K 350lm	2
990128	Wedge W21/5W / T20 12V-24V 6000K 360/120lm	2
990140	Bayonet P21W BA15s 12V-24V 6000K 360lm WHITE	4
990142	Bayonet PY21W BAU15s 12V-24V 250lm AMBER	2
990144	Bayonet P21/5W BAY15d 12V-24V RED 360/120lm	4
990145	Bayonet R5W R10W / BA15s 12V-24V 6000K 280lm	2
990147	Bayonet T4W / BA9S 12V 6000K 68lm	5
990161	Load Resistors 12V 25W 6 Ohm	2

JWSGK2 - LARGE KIT CONTENTS

Part No.	Description	Qty
990100	Festoon (31x10.5) 12V 6000K 68lm	5
990102	Festoon (36x10.5) 12V 6000K 68lm	2
990103	Festoon (36x10.5) 24V 6000K 68lm	2
990104	Festoon (41x10.5) 12V 6000K 68lm	5
990108	Wedge W1.2W T5 12V 6000K 35lm	2
990110	Wedge W5W / T10 12V 6000K 65lm	10
990111	Wedge W5W / T10 24V 6000K 65lm	5
990114	Wedge W5W / T10 CANBUS 12V 6000K 98lm	5
990120	Wedge W16W / T16 12V-24V 6000K 350lm	2
990124	Wedge W21W / T20 12V-24V 6000K 360lm	2
990126	Wedge WY21W / T20 12V-24V AMBER 250lm	2
990128	Wedge W21/5W / T20 12V-24V 6000K 360/120lm	5
990130	Wedge 3157 / S8 12V-24V 6200K 360/120lm	2
990140	Bayonet P21W BA15s 12V-24V 6000K 360lm WHITE	5
990142	Bayonet PY21W BAU15s 12V-24V 250lm AMBER	5
990144	Bayonet P21/5W BAY15d 12V-24V RED 360/120lm	5
990144W	Bayonet P21/5W BAY15d 12V-24V White 360/120lm	2
990145	Bayonet R5W R10W / BA15s 12V-24V 6000K 280lm	2
990147	Bayonet T4W / BA9S 12V 6000K 68lm	5
990161	Load Resistors 12V 25W 6 Ohm	5





For further details about the J.W. Speaker range contact Invision Sales.

Invision Sales are the Asia Pacific distributors for J.W. Speaker Corporation.

Release date March 2026

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