

**Britax PMG Limited**  
Bessingby Industrial Estate  
Bridlington  
East Yorks. YO16 4SJ, England

Telephone: +44(0)1262 670161  
Telefax: +44(0)1262 605666  
e-mail: [info@britax-pmg.com](mailto:info@britax-pmg.com)  
Website: [www.britax-pmg.com](http://www.britax-pmg.com)

**Britax Autozubehor GmbH**  
Blaubeurer Str. 71, D-89077 Ulm  
Germany

Telephone: +49(0)731 935210  
Telefax: +49(0)731 9352129  
e-mail: [info@britaxauto.com](mailto:info@britaxauto.com)  
Website: [www.britaxauto.com](http://www.britaxauto.com)

**Britax Signalisation**  
38, rue Pierre Mendes France  
ZI Est, 69120 Vaulx en Velin  
Lyon France

Telephone: +33(0)478 796 000  
Telefax: +33(0)472 040 157  
e-mail: [britax.signalisation@wanadoo.fr](mailto:britax.signalisation@wanadoo.fr)  
Website: [www.britax-signalisation.com](http://www.britax-signalisation.com)

**Britax Automotive Equipment PTY LTD**  
79 Crockford Street  
Northgate, Queensland  
Australia 4013

Telephone: +61 7 3000 1900  
Telefax: +61 7 3000 1999  
e-mail: [bae@britaxae.com.au](mailto:bae@britaxae.com.au)  
Website: [www.britaxae.com.au](http://www.britaxae.com.au)

## INSTALLATION INSTRUCTIONS FOR AEROLITE 520, 750, 770, 1000, 1250 & 1500 LIGHT BARS (BELT DRIVEN ROTATING MODULES ONLY)



Electricity can shock, burn and cause damage to your vehicle!  
Disconnect the battery before wiring up the Light bar.



Drills can be dangerous!  
Make sure that the person operating the drill is trained and takes adequate safety precautions.



Electrical cables can melt!  
Ensure cable cross sectional area is capable of carrying the required Light bar load.  
See electrical wiring section for minimum wire size.



Incorrect fuse ratings can cause cables to over heat and cause fire!  
See electrical wiring section for correct fuse ratings.



Electrical cables are prone to damage!  
Ensure that adequate protection is provided for cables passing through vehicle panels.



Electrical cables can affect other equipment!  
Route product supply cables away from sensitive cables (e.g. Radio, aerials, anti-lock braking etc.) If this is not possible, cross the cables at 90°.



This product complies with EMC directive 2008/104/EC  
This product is approved to EMC directive 2009/19/EC  
This product is approved to EMC regulation 10-03  
This product is approved to ECE regulation 65 (2 module amber only).



Do not use an automatic rotating brush type car wash on vehicles when light bars are fitted.



The rotating modules in this Light bar will work at either 12 or 24 volts without modification, however it is necessary to fit the correct voltage bulb in the module and sign plate bulb holders if fitted.

## INSTALLATION

The installer is responsible for ensuring that the product, when fitted, meets the requirements of local legislation.  
The light from the bar should be visible from any point at a reasonable distance from the vehicle. The light bar base should be parallel with the ground and the longer sides perpendicular to the vehicle longitudinal centre line.  
If radio equipment is fitted to the vehicle, a MINIMUM distance of 500mm between the light bar and the antenna is required.  
The installer is responsible for ensuring that the panel to which the light bar is to be fitted is of sufficient strength for the purpose. If there is any doubt please contact the vehicle manufacturer.  
Always disconnect the battery before drilling any panels.

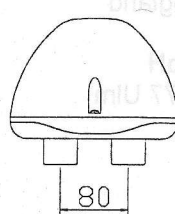
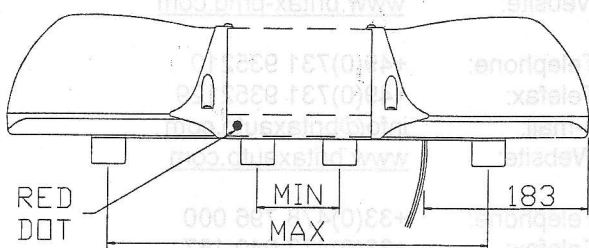
Choose a surface that meets the mounting position requirements.

2515-00

2515.00

ISSUE F  
MOD 28006

The light bar has variable mounting centres along the length of the bar, however it is recommended for optimum vibration resistance that the mounting centres are between the dimensions given below: -



RANGE	MIN	MAX
520	200	300
750	280	500
770	300	500
1000	400	650
1250	600	900
1500	800	1050

Taking care not to scratch the vehicle paintwork, drill the vehicle panel to centres you require for your length of bar, making sure the holes miss any raised webs, internal trim or existing vehicle cables.  
If the electrical wiring is to be installed beneath the light bar, drill an additional hole in panel and fit a suitable grommet prior to fixing the light bar.

**IMPORTANT:** - If the light bar has the illuminated sign plate option the red dot on the bar must face the rear of the vehicle.  
From the supplied mounting kit fit the 4 bolts into the mounting channels and slide them to the centres position you have drilled.  
Fit a washer, then the rubber foot onto the bolt and mount light bar to the panel, underneath the panel fit the remaining washer and nut onto the bolt and tighten to 1.5Nm.

ELECTRICAL WIRING

Check the table below to ensure correct fuse and cable size is used for your light bar (note! cable sizes shown are based on PVC insulated automotive cables to BS6862, should a higher rated insulated cable be used then the cable size can be reduced accordingly as per cable manufactures guidelines in line with the fuse rating).  
In keeping with normal automotive wiring practice, light bar functions over 2A should be switched using a suitable relay. This avoids the need to route high current cables to the dashboard or overload existing vehicle cables.  
It is essential that the negative should have a secure connection to the battery or vehicle chassis (if the vehicle chassis is negative). Failure to follow fuse and cable size recommendations could result in serious damage to the product and your vehicle. If in any doubt consult an auto electrician.  
Always disconnect the battery before making any electrical connections.  
On 4 module light bars the inner pair of modules are connected independently from the outer pair and maybe switched as independent pairs.

Light bar electrical connections should be made as follows: -

Outer modules (2 & 4 module bars)	-	Positive	-	PURPLE
Inner modules (4 module only)	-	Positive	-	ORANGE
Illuminated sign plate option	-	Positive	-	BROWN
Common return	-	Negative	-	BLACK

FUSE AND MINIMUM CABLE SIZE (cross sectional area)			
LIGHT BAR RANGE	CABLE COLOUR	MIN CABLE SIZE 12V (24V)	FUSE RATING 12V (24V)
520 (2 module)	Purple	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Black	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	N/A
750 (2 module)	Purple	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Brown (when fitted)	0.65mm <sup>2</sup> (0.65mm <sup>2</sup> )	3A (3A)
	Black	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	N/A
770 (4 module)	Purple	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Orange	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Black	2.5mm <sup>2</sup> (1.5mm <sup>2</sup> )	N/A
1000 (2 module)	Purple	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Brown (when fitted)	0.65mm <sup>2</sup> (0.65mm <sup>2</sup> )	5A (3A)
	Black	2.0mm <sup>2</sup> (1.0mm <sup>2</sup> )	N/A
1000 (4 module)	Purple	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Orange	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Brown (when fitted)	0.65mm <sup>2</sup> (0.65mm <sup>2</sup> )	3A (3A)
	Black	2.5mm <sup>2</sup> (2.0mm <sup>2</sup> )	N/A
1250 (2 module)	Purple	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Brown (when fitted)	0.65mm <sup>2</sup> (0.65mm <sup>2</sup> )	7.5A (5A)
	Black	2.0mm <sup>2</sup> (1.0mm <sup>2</sup> )	N/A
1250 (4 module)	Purple	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Orange	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Brown (when fitted)	0.65mm <sup>2</sup> (0.65mm <sup>2</sup> )	5A (3A)
	Black	3.0mm <sup>2</sup> (2.0mm <sup>2</sup> )	N/A
1500 (2 module)	Purple	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Brown (when fitted)	1.0mm <sup>2</sup> (0.65mm <sup>2</sup> )	10A (5A)
	Black	2.0mm <sup>2</sup> (1.5mm <sup>2</sup> )	N/A
1500 (4 module)	Purple	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Orange	1.5mm <sup>2</sup> (1.0mm <sup>2</sup> )	15A (10A)
	Brown (when fitted)	0.65mm <sup>2</sup> (0.65mm <sup>2</sup> )	7.5A (5A)
	Black	3.0mm <sup>2</sup> (2.0mm <sup>2</sup> )	N/A

## MAINTENANCE INSTRUCTIONS

### SPARE PARTS LIST

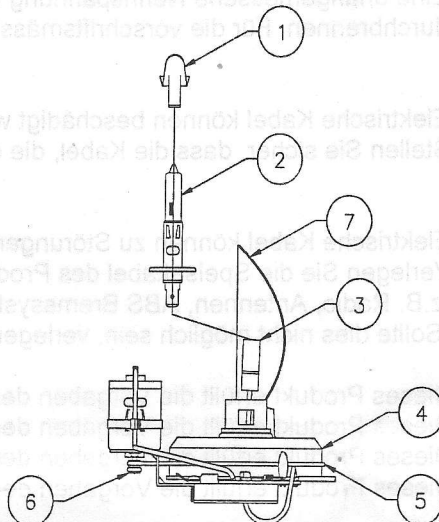
2 Module lens	10519.22	Module	13551.04
4 Module lens	10518.22	H1 – 12V/55W bulb (module)	H448
Lens retention strap (sign plate version)	12342.00	H1 – 24V/70W bulb (module)	H466
Lens retention strap (non sign plate version)	12343.00	Bulb clip	27031
Sign plate 245mm	12345.03	Drive belt	15214
Sign plate 495mm	12345.02	P21W – 12V/21W bulb (sign plate)	L382
Sign plate 745mm	12345.01	P21W – 24V/21W bulb (sign plate)	L241
Sign plate 995mm	12345.00		

### ROTATING MODULE BULB CHANGE

Remove the lens by unscrewing the screws from the lens and lens retention strap.  
 Squeeze the bulb retaining clip [1] to release it and lift out the bulb [2].  
 Pull the bulb [2] from the connector [3] and remove the bulb [2] from the clip [1].  
 Replace with new bulb (H1 type, either 12V-55W or 24V-70W as applicable).  
 Do not touch bulb glass with bare fingers.  
 Re-assemble in reverse order.

### ROTATING MODULE DRIVE BELT CHANGE (Part No. 15214)

Remove the lens by unscrewing the screws from the lens and lens retention strap and remove the broken driving belt.  
 Lower the new drive belt [5] over the module reflector, take care not to cut the belt on the edge of the reflector [7].  
 Hook the belt into the top groove on the brass pulley [6] then fit the belt around the black reflector pulley [4].  
 Check that the belt is fitted correctly and replace the lens and styling section.



### ILLUMINATED SIGN PLATE BULB CHANGE

Remove both lenses by unscrewing the screws from the lens and lens retention strap.  
 Remove the central logo plates then unhook the sign plate cover from the base and remove.  
 Remove bulb from bulb holder by pushing and twisting anti-clockwise and replace with new bulb (P21W type).  
 Re-assemble in reverse order.  
**DO NOT OVER TIGHTEN SCREWS. MAXIMUM TORQUE IS 1.5Nm**

Please retain these instructions for future reference.

REIHE	MIN	MAX
520	300	300
780	280	800
770	300	500
1000	400	650
1250	600	900
1300	800	1050

