ENTORNO INDUSTRIAL

NEW
Star Halo® LED Beacons

STAR WARNING SYSTEMS®

OVER 120 YEARS OF EXCELLENCE
STAR SINCE 1889

D.O.T. • UTILITY • SECURITY • CONSTRUCTION

Thank you to all of our customers for our continued success.

I purchased the company from my father at the end of 2008. I would like to take this opportunity to thank my father for helping to grow our company to where it is today. I want to assure you that Star will continue to be family owned for another generation.

I am proud to be a 5th generation President of a company that continues to be the largest manufacturer of amber lights to the heavy duty truck market in the United States. With some of the new LED products you will see in this new catalog, we have only added to the innovative lighting design you are accustomed to seeing from Star.

Star also achieved the ISO 9001:2008 certification in our production facility and are proud to be the largest American made amber lighting company today. We are a fully functional vertically integrated company.

On the back cover we have a picture of our dedicated employees from our 120 year anniversary. We are proud to have such a wonderful and hard working group of individuals dedicated to making us #1.

Of course none of this would be possible without reliable and dedicated customers such as yourself that make our progress as a company possible, and we thank you for your continued support and loyalty. As you look through our new catalog, please give us a call, and one of our dedicated customer service people will be glad to answer all of your questions. Please also don't forget to check our new website *www.starheadlight.com*, for the most up to date information and products that we offer.

Christopher D. Jacobs
President

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Due to continuous product improvement programs, we must reserve the right to change specifications and information at any time without prior notification.

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S-LINK SYSTEM™ STAR HALO® LED BEACONS

NEW

STAR Halo® LED technology is a patent pending, extremely low current draw, ultra high intensity LED light that exceeds the latest J845 and CA13 standards. The circuity is designed with 24 customer selectable flash patterns, high/ low intensity feature (Manual or Automatic), and S-Link System™ that allows synchronizing capabilities with other STAR LED products. Circuitry is fully encapsulated for increased weather and shock resistance. Choose from several different beacons that incorporate STAR Halo™ LED technology.

200AH8L & 200AHL Series

200AHL Series

Models:

200A1H8L:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, 1" Pipe Mount
200AH8L:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, Permanent Mount
200A1HL:	SAE Class I, High Intensity STAR Halo® LED Optics, 1" Pipe Mount
200AHL:	SAE Class I, High Intensity STAR Halo® LED Optics, Permanent Mount

Specifications:

- Heavy-duty spun aluminum base and universal mounting: permanent mount, universal mount plate with 1" pipe mount
- Durable polycarbonate inner lens and outer dome
- Clear, smooth, outer dome for easy cleaning and provides inner lens protection

Dimensions:	7-3/4" tall x 9" dia., 4 lbs.
Voltage:	12V-24V DC
Amp Draw:	0.6 Amps @ 12V DC, 0.3 Amps @ 24V DC
LED Colors:	Amber, Blue, Red, White
Lens Colors:	Amber, Blue, Clear, Green, Red
Approvals:	SAE Class I (Amber) (Does not apply to all flash patterns)

200BH8L & 200BHL Series

200BHL Series

Models:

200BH8L:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, Permanent Mount or 3/4" Pipe Mount
200BHL:	SAE Class I, High Intensity STAR Halo® LED Optics, Permanent Mount or 3/4" Pipe Mount

Specifications:

- Heavy-duty spun aluminum base and universal mounting: permanent mount, standard 3/4" pipe mount
- Durable polycarbonate inner lens and outer dome
- Clear, smooth, outer dome for easy cleaning and provides inner lens protection

Dimensions:	6-7/8" tall x 8-1/4" dia., 4 lbs.
Voltage:	12V-24V DC
Amp Draw:	0.6 Amps @ 12V DC, 0.3 Amps @ 24V DC
LED Colors:	Amber, Blue, Red, White
Lens Colors:	Amber, Blue, Clear, Green, Red
Approvals:	SAE Class I (Amber) (Does not apply to all flash patterns)

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STAR WARNING SYSTEMS
THE U.S.

258HTDCL & 258HTDSL Series

258HTDCL/258HTDSL Series

Cig Plug includes Pattern Select and On/ Off Switches

Halo DC™ features the first "full image" dual-color warning beacon. Halo DC™ allows you to change from an amber beacon to a blue beacon with the flip of a switch. Other color combinations available.

Models:

258HTDAL:	tall lens w/Dust Cover
258HTDCL:	tall lens
258HTDSL:	short lens
258HTDALV:	tall lens w/Dust Cover and vacuum magnet mount
258HTDCLV:	tall lens w/vacuum magnet mount
258HTDSLV:	short lens w/vacuum magnet mount

Specifications:

- **Dimensions:** - (Short Dome): 4-3/4" tall x 6-13/32" dia.
  - (Tall Dome): 6-11/16" tall x 6-13/32" dia.
- **Voltage:** - (permanent mount): 12-24V DC
  - (vacuum magnet mount): 12V DC
- **Amp Draw: 0.7 Amps @ 12V DC, 0.35 Amps @ 24V DC**
- **Lens Colors: Clear**
- **LED colors: amber/blue, amber/red, amber/white, red/green and red/white**
- **Approvals: SAE Class I (amber/blue)**
- **S-Link System™ - hardwired models**

251H8TL & 251HTL Series

251H8TL/251HTL Series

STAR Halo® LED technology is a patent pending, extremely low current draw, ultra high intensity LED light that exceeds the latest J845 and CA13 standards. The circuitry is designed with 24 customer selectable flash patterns, 2 rotating patterns high/ low intensity feature (Manual or Automatic), and S-Link System™ that allows syncronizing capabilities with other STAR LED products. All circuitry is fully encapsulated for increased weather and shock resistance. Choose from several different beacons that incorporate STAR Halo® LED technology.

Models:

251H8TAL:	Ultra High Intensity LEDs and tall dome with dust cover
251H8TCL:	Ultra High Intensity LEDs and tall dome
251H8TSL:	Ultra High Intensity LEDs and short dome
251H8TAL-BG:	Ultra High Intensity LEDs and tall dome with dust cover and branch guard
251H8TCL-BG:	Ultra High Intensity LEDs and tall dome and branch guard
251H8TSL-BG:	Ultra High Intensity LEDs and short dome and branch guard
251HTAL:	High Intensity LEDs and tall dome with dust cover
251HTCL:	High Intensity LEDs and tall dome
251HTSL:	High Intensity LEDs and short dome
251HTAL-BG:	High Intensity LEDs and tall dome with dust cover and branch guard
251HTCL-BG:	High Intensity LEDs and tall dome and branch guard
251HTSL-BG:	High Intensity LEDs and short dome and branch guard

Specifications:

- **Dimensions:** - (Short Dome): 6-7/8" tall x 6-1/2" dia.
  - (Tall Dome): 8-21/32" tall x 6-1/2" dia.
- **Voltage: 12-24V DC (permanent mount)**
- **Amp Draw: 0.7 Amps @ 12V DC, 0.35 Amps @ 24V DC**
- **Lens Colors: Amber, Blue, Clear, Green, Red**
- **Low voltage warning**
- **Approvals: SAE Class 1 (Amber)**

NEW S-LINK SYSTEM

STAR HALO® LED BEACONS

200CH8L & 200CHL Series

200CFHL Series

200CHL Series

Models:

200CH8L:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, Permanent Mount
200CFH8L:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, Permanent Mount, 3-Hole Flange Mount
200CHL:	SAE Class I, High Intensity STAR Halo® LED Optics, Permanent Mount
200CFHL:	SAE Class I, High Intensity STAR Halo® LED Optics, Permanent Mount, 3-Hole Flange Mount

Specifications:

- Heavy-duty spun aluminum base and universal mounting: permanent mount, 3-hole flange mount
- Durable polycarbonate lens

Dimensions:	7-9/16" tall x 7-3/4" dia., 4 lbs.
Voltage:	12V-24V DC
Amp Draw:	0.6 Amps @ 12V DC, 0.3 Amps @ 24V DC
LED Colors:	Amber, Blue, Red, White
Lens Colors:	Amber, Blue, Clear, Green, Red
Approvals:	SAE Class I (Amber) (Does not apply to all flash patterns)

200SH8L & 200SHL Series

200SHL Series

200SHLM Series

Cig Plug includes Pattern Select and On/ Off Switches

Models:

200SH8L:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, 1/2" Pipe Mount
200SH8LM:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, Magnetic Mount
200SHL:	SAE Class I, High Intensity STAR Halo® LED Optics, 1/2" Pipe Mount
200SHLM:	SAE Class I, High Intensity STAR Halo® LED Optics, Magnetic Mount

Specifications:

- Rugged die-cast aluminum base with powder coat finish and universal mounting: permanent mount, standard 1/2" pipe mount, optional magnetic mount with cigarette plug adapter
- Durable polycarbonate lens

Dimensions:	6-1/4" tall x 5-1/2" dia., 3 lbs.
Voltage:	12V-24V DC
Amp Draw:	0.6 Amps @ 12V DC, 0.3 Amps @ 24V DC
LED Colors:	Amber, Blue, Red, White
Lens Colors:	Amber, Blue, Clear, Green, Red
Approvals:	SAE Class I (Amber) (Does not apply to all flash patterns)

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STAR WARNING SYSTEMS THE U.S.

240HCL Series

Cig Plug includes Pattern Select and On/ Off Switches

240HSFL Series

240HSL Series

240H8A Tall Lens w/Dust Cover Models:

240H8AFL:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, 1/2" Pipe/Flange Mount
240H8AFL1:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, 1" Pipe/Flange Mount
240H8AL:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, 1/2" Pipe Mount
240H8AL1:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, 1" Pipe Mount
240H8ALM:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, Magnetic Mount

240H8C & 240HC Tall Lens Models:

240H8CFL:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, 1/2" Pipe/Flange Mount
240H8CFL1:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, 1" Pipe/Flange Mount
240H8CL:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, 1/2" Pipe Mount
240H8CL1:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, 1" Pipe Mount
240H8CLM:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, Magnetic Mount
240HCFL:	SAE Class I, High Intensity STAR Halo® LED Optics, 1/2" Pipe/Flange Mount
240HCFL1:	SAE Class I, High Intensity STAR Halo® LED Optics, 1" Pipe/Flange Mount
240HCL:	SAE Class I, High Intensity STAR Halo® LED Optics, 1/2" Pipe Mount
240HCL1:	SAE Class I, High Intensity STAR Halo® LED Optics, 1" Pipe Mount
240HCLM:	SAE Class I, High Intensity STAR Halo® LED Optics, Magnetic Mount

240H8S & 240HS Short Lens Models:

240H8SFL:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, 1/2" Pipe/Flange Mount
240H8SFL1:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, 1" Pipe/Flange Mount
240H8SL:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, 1/2" Pipe Mount
240H8SL1:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, 1" Pipe Mount
240H8SLM:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, Magnetic Mount
240HSFL:	SAE Class I, High Intensity STAR Halo® LED Optics, 1/2" Pipe/Flange Mount
240HSFL1:	SAE Class I, High Intensity STAR Halo® LED Optics, 1" Pipe/Flange Mount
240HSL:	SAE Class I, High Intensity STAR Halo® LED Optics, 1/2" Pipe Mount
240HSL1:	SAE Class I, High Intensity STAR Halo® LED Optics, 1" Pipe Mount
240HSLM:	SAE Class I, High Intensity STAR Halo® LED Optics, Magnetic Mount

Specifications:

- Rugged die-cast aluminum base with powder coat finish and universal mounting: permanent mount, flange mount, standard 1/2" pipe mount; available 1" pipe mount, optional magnetic mount with cigarette plug adapter
- Durable polycarbonate lens

Dimensions:	(Short Dome): 4-1/4" tall x 5-1/2" dia., 2 lbs. (Tall Dome): 6" tall x 5-1/2" dia., 3 lbs.
Voltage:	12V-24V DC
Amp Draw:	0.6 Amps @ 12V DC, 0.3 Amps @ 24V DC
Lens Colors:	Amber, Blue, Clear, Green, Red
Approvals:	SAE Class I (Amber) (Does not apply to all flash patterns)

NEW S-LINK SYSTEM

STAR HALO® LED BEACONS

255H8TL & 255HTL Series

255HTCL Series

255HTSL Series

Cig Plug includes Pattern Select and On/ Off Switches

Models:

255H8TALV:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, Vacuum Magnetic Mount, Tall Lens w/Dust Cover
255H8TAL:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, Flange Mount, Tall Lens w/Dust Cover
255H8TCLV:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, Vacuum Magnetic Mount, Tall Lens
255H8TCL:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, Flange Mount, Tall Lens
255H8TSL:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, Flange Mount, Short Lens
255HTCLV:	SAE Class I, High Intensity STAR Halo® LED Optics, Vacuum Magnetic Mount, Tall Lens
255HTCL:	SAE Class I, High Intensity STAR Halo® LED Optics, , Flange Mount, Tall Lens
255HTSLV:	SAE Class I, High Intensity STAR Halo® LED Optics, Vacuum Magnetic Mount, Short Lens
255HTSL:	SAE Class I, High Intensity STAR Halo® LED Optics, Flange Mount, Short Lens

Specifications:

- Lightweight polycarbonate, universal flange base: 3-hole permanent mount, 1" pipe mount, optional vacuum magnetic mount with cigarette plug adapter
- Durable polycarbonate, Twist On/Off Lens

Dimensions:	(Short Dome): 4-3/4" tall x 6-13/32" dia., 2 lbs. (Tall Dome): 6-11/16" tall x 6-13/32" dia., 3 lbs.
Voltage:	12V-24V DC
Amp Draw:	0.6 Amps @ 12V DC, 0.3 Amps @ 24V DC
Lens Colors:	Amber, Blue, Clear, Green, Red
Approvals:	SAE Class I (Amber) (Does not apply to all flash patterns)

257H8TL & 257HTL Series

257HTCL Series

Cig Plug includes Pattern Select and On/ Off Switches

257HTSL Series

Models:

257H8TALV:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, Vacuum Magnetic Mount, Tall Lens w/Dust Cover
257H8TAL:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LED Optics, Flange Mount, Tall Lens w/Dust Cover
257H8TCLV:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, Vacuum Magnetic Mount, Tall Lens
257H8TCL:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, Flange Mount, Tall Lens
257H8TSL:	SAE Class I, Ultra High Intensity STAR Halo® LED Optics, Flange Mount, Short Lens
257HTCLV:	SAE Class I, High Intensity STAR Halo® LED Optics, Vacuum Magnetic Mount, Tall Lens
257HTCL:	SAE Class I, High Intensity STAR Halo® LED Optics, , Flange Mount, Tall Lens
257HTSLV:	SAE Class I, High Intensity STAR Halo® LED Optics, Vacuum Magnetic Mount, Short Lens
257HTSL:	SAE Class I, High Intensity STAR Halo® LED Optics, Flange Mount, Short Lens

Specifications:

- Die-cast metal, universal flange mount: 3-hole permanent mount, 1" pipe mount, optional vacuum magnetic mount with cigarette plug
- Durable polycarbonate, Twist On/Off Lens

Dimensions:	(Short Dome): 4-3/4" tall x 6-13/32" dia., 2 lbs. (Tall Dome): 6-11/16" tall x 6-13/32" dia., 3 lbs.
Voltage:	12V-24V DC
Amp Draw:	0.6 Amps @ 12V DC, 0.3 Amps @ 24V DC
Lens Colors:	Amber, Blue, Clear, Green, Red
Approvals:	SAE Class I (Amber) (Does not apply to all flash patterns)

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STAR WARNING SYSTEMS
Yes U.S.

200ZL Series

**Magnetic mount includes metal disk with hook and loop fasteners for easy dash mounting.*

PARTS	
Lens	330
Gasket	381
Clamp Ring	365-Z
Magnet	177
Cig Plug with Lighted on/off Switch	176-SW
Eye Shield	386

201ZL Series

**Magnetic mount includes metal disk with hook and loop fasteners for easy dash mounting.*

PARTS	
Lens	330-_1
O-ring Gasket	381-1
Magnet	177
Cig Plug with Lighted on/off Switch	176-SW
Eye Shield	386

203MVL Series

PARTS	Part #
Lens	320

204MVL Series

PARTS	Part #
Lens	234

These 360° LED beacons are compact and powerful. The 200ZL offers a polycarbonate lens clamped to a rugged die-cast aluminum base with a fully gasketed aluminum retaining ring to enhance water resistance.

The 201ZL offers a polycarbonate, quick-snap lens and base assembly for easy field repairs. The polycarbonate lens is sealed to the base with a water resistant enhanced O-ring.

The 203MVL offers a twist on/off lens for quick field maintenance and a durable polycarbonate plastic base with flange.

The 204MV is a space saving solution. It offers a twist on/off lens for quick field maintenance and a durable plastic, flange mount base. Twenty-nine customer selectable flash patterns with an extremely low current draw gives these beacons many flexible options. The fully encapsulated circuitry and long life LEDs (rated for up to 10,000 hours) ensures trouble free operation. Ships complete with mounting hardware and instructions.

Models:

200ZL Series:	200ZL: Permanent Mount, 200ZLM*: Magnetic Mount 200ZL-48: Permanent Mount 3-3/4"H x 4-1/8"Dia., 2 lbs.
201ZL Series:	201ZL: Permanent Mount, 201ZLM*: Magnetic Mount 201ZL-48: Permanent Mount 3-3/4"H x 4-1/4"Dia., 1.5 lbs.
203MVL Series:	203MVL: Permanent Mount, 203MVLM: Magnetic Mount 203MVL-48: Permanent Mount 3-1/2"H x 5-1/16"Dia., 1 lb.
204MVL Series:	204MVL: Flange Mount Only 204MVL-48: Permanent Mount 5"H x 4-7/8"Dia., 1 lb.

Specifications:

Voltage:	200ZL, 201ZL, 203MVL, 204MVL: 10V-16V DC 200ZL-48, 201ZL-48, 203MVL-48, 204MVL-48: 10V-48V DC
Amp Draw:	200ZL, 201ZL, 203MVL, 204MVL: 0.35 Amps @ 10V-16V DC 200ZL-48, 201ZL-48, 203MVL-48, 204MVL-48: 0.13 Amps @ 10V-48V DC
LEDs:	Two Star Generation-4 LEDs
Color:	Amber lens with Amber LED
Mounting*:	Permanent Mount Flange Mount 1/2" Pipe Mount Magnetic Mount * does not apply to all lights
Approvals:	SAE J845 Class III (Amber)

NEW
Star Generation-4
LEDs

200A & 200B Series - High Profile, Heavy Duty

200A Series

200B Series

Selectable Hi/Lo intensity is a standard feature on standard power Double and Quad Flash models. An optional photocell is available for High Power models that automatically switches to lower intensity in low light conditions.

PARTS

Outer Dome	134-L
Lens	300
Strobe Tube	129 or 129-DH (High Power)
Circuit (Standard Power)	181-SDQ-12
Circuit (Double Flash, High Power)	181-DH-12
Circuit (Quad Flash, High Power)	181-QH-12
Channel Gasket	111A
Clamp Ring (200B)	4022
Plastic Base Insert (200A)	101-AP

The 200A and 200B series are built with heavy-duty spun aluminum bases. The 200A has an open bottom while the 200B has an enclosed bottom. Each has a smooth outer dome for easy cleaning which also protects the inner fresnel lens. Field-selectable flash patterns via an internal jumper for quad flash, double flash, or single flash, RFI protection, and patented LED diagnostic indicator are standard. Ships complete with mounting hardware and instructions.

Models:

200A Series: 200A: Single Flash, Double Flash, or Quad Flash,
200ADH: High Power, Double Flash;
200AQH: High Power, Quad Flash
7-3/4"H x 9"Dia., 4 lbs.

200B Series: 200B: Single Flash, Double Flash, or Quad Flash
200BDH: High Power, Double Flash;
200BQH: High Power, Quad Flash
6-7/8"H x 8-1/4"Dia., 4 lbs.

Specifications:

Voltage:	12V - 24V DC	
Amp Draw:	2 Amps Max (High Power: 3.2 Amps)	
Joules:	**Single Flash:**	11.35 joules @ 100fpm
	Double Flash:	18.7 joules @ 65dfpm
	Quad Flash:	17.6 joules @ 75qfpm
	High Power Double or Quad Flash:	23 joules
Lens color:	Amber, Blue, Clear, Green, Red, Magenta	
Mounting:	**200A Series:**	Permanent mount
	200B Series:	Permanent or 3/4" pipe mount
Approvals:	**200B (Single Flash):**	CSA
	200A, 200B (Single Flash):	SAE J1318 Class 2 Amber, Blue, Clear, Red
	200A, 200B (Double Flash):	SAE J1318 Class 1 Amber, Blue, Clear Class 2: Red
	200A, 200B (Quad Flash):	SAE J1318 Class 1 Amber, Blue, Clear, Red California Title 13 - Amber

200C & 200E Series - Most Basic

200CF Series

200E Series

Selectable Hi/Lo intensity is a standard feature on standard power Double and Quad Flash models. An optional photocell is available for High Power models that automatically switches to lower intensity in low light conditions.

PARTS

Lens	300
Strobe Tube	129 or 129-DH (High Power)
Circuit (Standard Power)	181-SDQ-12
Circuit (Double Flash, High Power)	181-DH-12
Circuit (Quad Flash, High Power)	181-QH-12
Circuit (200E)	181-110
Channel Gasket	111C

The 200C and 200E series are basic strobe lights that are economically priced. They are built tough with anodized spun aluminum bases for increased durability and weather resistance. Ideal for medium to heavy duty applications. Field-selectable flash patterns via an internal jumper for quad flash, double flash, or single flash, RFI protection, and patented LED diagnostic indicator are standard. Ships complete with mounting hardware and instructions.

Models:

200C Series: 200C, 200CF Single Flash, Double Flash, Quad Flash,
200CDH: High Power, Double Flash,
200CQH: High Power, Quad Flash 7-9/16"H x 7-3/4"Dia., 4 lbs.

200E Series: 200E: Single Flash
7-9/16"H x 7-3/4"Dia., 4 lbs.

Specifications:

Voltage:	**200C Series:**	12V - 24V DC
	200E:	110V - 120V DC
Amp Draw:	2 Amps Max (High Power: 3.2 Amps)	
Joules:	**Single Flash:**	11.35 joules @ 100fpm
	Double Flash:	18.7 joules @ 65dfpm
	Quad Flash:	17.6 joules @ 75qfpm
	High Power Double or Quad Flash:	23 joules
Lens color:	Amber, Blue, Clear, Green, Red, Magenta	
Mounting:	**200C Series:**	Permanent or Flange Mount
	200E:	Permanent or 3/4" Pipe Mount
Approvals:	**200C (Single Flash):**	SAE J1318 Class 2 Amber, Blue, Clear, Red
	200C (Double Flash):	SAE J1318 Class 1 Amber, Blue, Clear SAE J1318 Class 2 Red
	200E:	ULC Approved
	200CQH:	SAE J1318 Class 1 Amber, Blue, Clear, Red California Title 13 Amber

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STAR WARNING SYSTEMS
THE U.S.

NEW STROBE BEACONS

250 Series - High Power

250C Series

250S Series

Selectable Hi/Lo intensity is a standard feature on Double and Quad Flash models. An optional photocell is available that automatically switches to lower intensity.

PARTS

Outer Dust Cover (250A)	296
Lens (250C & 250A)	295
Lens (250S)	297
Strobe Tube	129-DH
Timing Head (Single Flash)	180
Power Supply (High Power Single Flash)	(2)181-12
Circuit (High PowerDouble Flash)	181-DH-12
Circuit (High Power Quad Flash)	181-QH-12
Circuit (Standard Power)	181-SDQ-12
Base Plate, Flange	331

The 250 series is built for High Power and High Visibility. An anodized spun aluminum case and rugged die-cast base plate makes this light durable for any heavy duty application. A fully gasketed lens and base protects against the elements. Standard power models are also available (250A, 250C, 250S with field-selectable flash patterns via an internal jumper for quad flash, double flash, or single flash, RFI protection, and patented LED diagnostic indicator are standard.) Ships complete with mounting hardware and instructions.

Models:

250C Series:	250AH: Single Flash w/Dust Cover; 250ADH: Double Flash w/Dust Cover; 250AQH: Quad Flash w/Dust Cover; 250CH: Single Flash; 250CDH: Double Flash; 250CQH: Quad Flash; 8"H x 5-1/2"Dia., 5 lbs.
250S Series:	250SH: Single Flash; 250SDH: Double Flash; 250SQH: Quad Flash 6-1/8"H x 5-1/2"Dia., 5 lbs

High Power Specifications:

Voltage:	**Single Flash:**	12V DC
	Double or Quad Flash:	12V - 24V DC
Amp Draw:	**Single Flash:**	3.6 Amps
	Double or Quad Flash:	3.2 Amps
Joules:	**Single Flash:**	20 joules
	Double or Quad Flash:	23 joules
Lens color:	Amber, Blue, Clear, Green, Red, Magenta	
Mounting:	Flange Mount (2 holes on 6-7/8" centers)	
Approvals:	**250ADH, 250ADHP, 250CDH, 250CDHP:**	SAE J1318 Class 1: Amber TXDOT Specifications: SDHPT - 055057 - 0189
	250ADH, 250CDH, 250SDH:	California Administrative Code, AAMVA - 12V DC
	250CQH:	SAE Class 1: Amber, Red California Title 13: Amber

255HTC - High Profile - LED Diagnostics

255HTC Series

255HTCM Series

PARTS

Lens	295TC
Strobe Tube	129
Circuit	181-HT-DQ
Cig Plug with Lighted on/off Switch	176-SW
Magnet Mount Kit	177-3
O-Ring Gasket	30047-41

The 255HTC offers a patented LED diagnostic indicator, a photocell for automatic "night" mode switching, and field-selectable flash patterns via an internal jumper for quad flash, double flash, or single flash. Lens easily twists on/off the durable and lightweight plastic, universal mount, flanged base. The modular circuit is completely encapsulated for increased shock and weather resistance and is also protected with a low voltage shutdown feature. RFI protection is standard. Ships complete with mounting hardware and instructions.

Models:

255HTC Series:	255HTC: Flange/Pipe Mount 255HTCM: Magnetic Mount 6-11/16"H x 6-13/32"Dia., 3 lbs.

Specifications:

Voltage:	12V-24V DC
Amp Draw:	2 Amps @ 12V DC 1 Amps @ 24V DC
Joules:	19.5 joules (Quad Flash mode)
Lens color:	Amber, Blue, Clear, Green, Red, Magenta
Mounting:	Universal Flange Mount 1" Pipe Mount Magnetic Mount
Approvals:	SAE J1318 in Quad Flash mode Class 1: Amber, Blue, Clear Class 2: Red

NEW STROBE BEACONS

255TC & 255TS - Stars With A Twist

255TC Series

255TS Series

The 255TC & 255TS series offer field selectable flash patterns of quad flash, double flash, or single flash via an internal jumper. Lens easily twists on/off the durable and lightweight plastic, universal mount, flanged base. The modular circuit is completely encapsulated for increased shock and weather resistance, and is also protected with a low voltage shutdown feature. Ships complete with mounting hardware and instructions.

Models:

255TC Series: 255TC: Flange Mount;
255TCM: Magnetic Mount;
255TCV: Vacuum Magnetic Mount;
6-11/16"H x 6-13/32"Dia., 3 lbs.

255TS Series: 255TS: Flange Mount;
255TSM: Magnetic Mount
255TSV: Vacuum Magnetic Mount
4-3/4"H x 6-13/32"Dia., 2 lbs.

Specifications:

Voltage: 12V-48V DC

Amp Draw: 1.2 Amps @ 12V DC
0.6 Amps @ 24V DC
0.3 Amps @ 36V DC
0.175 Amps @ 48V DC

Joules: **Double Flash:** 7 joules
Quad Flash: 10 joules

Lens color: Amber, Blue, Clear, Green, Red, Magenta

Mounting: Universal Flange Mount
1" Pipe Mount
Magnetic Mount
Vacuum Magnetic Mount

Approvals: SAE J1318 Class 2: Amber, Blue, Clear, Red (Quad Flash mode)

PARTS

Lens (255TC Series)	295TC
Lens (255TS Series)	297TS
Strobe Tube	129
Circuit	181-T-DQ
Cig Plug with Lighted on/off Switch	176-SW
Magnet Mount Kit	177-3
Vacuum Magnet Mount	920-16V
O-Ring Gasket	30047-41

200S Series - Medium Profile

200S Series

The 200S series are our most popular medium profile strobe lights. The rugged die-cast base is fully gasketed and the modular circuit is completely encapsulated for increased shock and weather resistance. Field-selectable flash patterns via an internal jumper for quad flash, double flash, or single flash, RFI protection, and patented LED diagnostic indicator are standard. Ships complete with mounting hardware and instructions.

Models:

200S Series: 200S, 200SM: Single Flash, Double Flash, Quad Flash
6-1/4"H x 5-1/2"Dia., 3 lbs.

Specifications:

Voltage: 12V - 24V DC

Amp Draw: 2 Amps @ 12V DC

Joules: **Single Flash:** 11.35 joules @ 100fpm
Double Flash: 18.7 joules @ 65dfpm
Quad Flash: 17.6 joules @ 75qfpm

Lens color: Amber, Blue, Clear, Green, Red, Magenta

Mounting: Permanent Mount
1/2" Pipe Mount
Magnetic Mount

Approvals: **200S**
(Single Flash): SAE J1318 Class 2
Amber, Blue, Clear, Red

200S
(Double Flash & Quad Flash):
SAE J1318 Class 1
Amber, Blue, Clear
Class 2: Red

Selectable Hi/Lo intensity is a standard feature on Double and Quad Flash models.

PARTS

Lens	300-S
Strobe Tube	129
Circuit	181-SDQ4-12
Cig Plug with Lighted on/off Switch	176-SW
Lens Gasket	369
Base	4100LF
Clamp Ring	365

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STAR WARNING SYSTEMS
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NEW STROBE BEACONS

240 Series - Medium Profile

240C Series

240S Series

The 240 Series is our most popular and most versatile strobe light. The circuit is completely encapsulated for increased shock and weather resistance. The rugged die-cast aluminum base is protected with a powder coat finish. Field-selectable flash patterns via an internal jumper for quad flash, double flash, or single flash, RFI protection, and patented LED diagnostic indicator are standard. Ships complete with mounting hardware and instructions.

Models:

240C Series:	240C, 240CF, 240CM: Single Flash, Double Flash, Quad Flash 6"H x 5-1/2"Dia., 3 lbs.
240S Series:	240S, 240SF, 240SM: Single Flash, Double Flash, Quad Flash 4-1/4"H x 5-1/2"Dia., 2 lbs.

Specifications:

Voltage:	12V - 24V DC	
Amp Draw:	2.0 Amps	
Joules:	**Single Flash:**	11.35 joules @ 100fpm
	Double Flash:	18.7 joules @ 65dfpm
	Quad Flash:	17.6 joules @ 75qfpm
Lens color:	Amber, Blue, Clear, Green, Red, Magenta	
Mounting:	Permanent Mount, 1/2" Pipe Mount, Flange Mount Magnetic Mount	
Approvals:	**240S Single Flash:**	SAE J1318 Class 2 Amber, Blue, Clear, Red
	Double Flash:	SAE J1318 Class 2 Amber, Blue, Clear, Red
	Quad Flash:	SAE J1318 Class 1 Blue SAE J1318 Class 2 Amber, Clear, Red
	240C Single Flash:	SAE J1318 Class 2 Amber, Blue, Clear, Red
	Double Flash & Quad Flash:	SAE J1318 Class 1 Amber, Blue, Clear SAE J1318 Class 2 Red
	240A Double Flash & Quad Flash:	SAE J1318 Class I Amber, Clear

Selectable Hi/Lo intensity is a standard feature on Double and Quad Flash models.

PARTS	
Lens (240C)	295
Lens (240S)	297
Strobe Tube	129
Circuit	181-SDQ4-12
Magnet	177
Cig Plug with Lighted on/off Switch	176-SW

242 Series - Medium Profile - LED Diagnostics

242CL Series

242SL Series

The 242 Series offers a patented LED diagnostic indicator, a photocell for automatic "night" mode switching and field selectable flash patterns of quad flash, double flash, or single flash via an internal jumper. The modular circuit is completely encapsulated for increased shock and weather resistance. The rugged die-cast aluminum base is protected with a powder coat finish. RFI protection is standard. Ships complete with mounting hardware and instructions.

Models:

242CL Series:	242CL: Permanent Mount; 242CFL: Flange Mount; 242CLM: Magnetic Mount 6"H x 5-1/2"Dia., 3 lbs.
242SL Series:	242SL: Permanent Mount; 242SFL: Flange Mount; 242SLM: Magnetic Mount 4-1/4"H x 5-1/2"Dia., 2 lbs.

Specifications:

Voltage:	12V-24V DC	
Amp Draw:	2 Amps @ 12V DC 1 Amps @ 24V DC	
Joules:	19.5 joules (Quad Flash)	
Lens color:	Amber, Blue, Clear, Green, Red, Magenta	
Mounting:	Permanent Mount Flange Mount 1/2" Pipe Mount Magnetic Mount	
Approvals:	**242S Quad Flash:**	SAE J1318 Class 1 Clear SAE J1318 Class 2 Amber, Blue, Red
	242C Quad Flash:	SAE J1318 Class 1 Amber, Blue, Clear SAE J1318 Class 2 Red

PARTS	
Lens (242C)	295
Lens (242S)	297
Strobe Tube	129
Circuit	181-HT-DQ
Cig Plug with Lighted on/off Switch	176-SW
Magnet	177

NEW STROBE BEACONS

241S Series - Very Low Profile

241S Series

At only 3" tall, the 241S Series strobes will fit where other strobes won't. The modular circuit is completely encapsulated for increased shock and weather resistance. The rugged die-cast aluminum base is protected with a powder coat finish. Field-selectable flash patterns via an internal jumper for quad flash, double flash, or single flash, RFI protection, and patented LED diagnostic indicator are standard. Ships complete with mounting hardware and instructions.

Models:

241 Series:	**241S 241SF, 241SM: Single Flash, Double Flash, Quad Flash 3-1/4"H x 5-1/2"Dia., 2 lbs.**

Specifications:

Voltage:	**12V - 24V DC**	
Amp Draw:	**2.0 Amps**	
Joules:	**Single Flash:**	**11.35 joules @ 100fpm**
	Double Flash:	**18.7 joules @ 65dfpm**
	Quad Flash:	**17.6 joules @ 75qfpm**
Lens color:	**Amber, Blue, Clear, Green, Red, Magenta**	
Mounting:	**Permanent Mount 1/2" Pipe Mount Flange Mount Magnetic Mount**	

Selectable Hi/Lo intensity is a standard feature on Double and Quad Flash models.

PARTS	
Lens	298
Strobe Tube	129-R
Circuit	181-SDQ4-12
Magnet	177
Cig Plug with Lighted on/off Switch	176-SW

211R Series - Very Low Profile - Rubber Base

211R Series &
211RM Series

At only 4" tall, the 211R Series strobe lights offer a molded rubber base to absorb shock and vibration and to prevent corrosion. The 211RM Series offers our NEW NeoForce™ Magnet Technology. The magnet is concealed inside the molded rubber base and will not scratch the roof of your vehicle! Ships complete with mounting hardware and instructions.

Models:

211R Series:	**211R: Single Flash; 211RQ: Quad Flash; 211RM: Single Flash; 211RMQ: Quad Flash 4" H x 5-3/4" Dia., 3 lbs.**

Specifications:

Voltage:	**Single Flash:**	**12V DC (Available 24V DC)**
	Quad Flash:	**12V DC only**
Amp Draw:	**0.5 Amps @ 12V DC 0.3 Amps @ 24V DC**	
Joules:	**Single Flash:**	**3 joules**
	Quad Flash:	**3.75 joules**
Lens color:	**Amber, Blue, Clear, Green, Red, Magenta**	
Mounting:	**Permanent Mount on 2 studs on 4-1/8" centers Magnetic Mount**	

PARTS	
Lens	298
Strobe Tube	129-Z
Circuit (Single Flash)	181-Z11-12
Circuit (Quad Flash)	181-ZQ11-12
Cig Plug with Lighted on/off Switch	176-SW

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STAR WARNING SYSTEMS
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200Z Series - Compact Low Profile

200Z Series

The 200Z Series is a compact and powerful, low profile strobe that is ideal for construction, forklift, or many other applications. The polycarbonate lens is clamped to the rugged die-cast aluminum base with a fully gasketed aluminum retaining ring to enhance water resistance. Ships complete with mounting hardware and instructions.

Models:

200Z Series: 200Z: Single Flash; 200ZQ: Quad Flash; 200ZM*: Single Flash; 200ZMQ*: Quad Flash 3-3/4"H x 4-1/8"Dia., 2 lbs.

Specifications:

Voltage: **Single Flash:** 12V DC (available 24V, 36V, 48V DC, or 110V-120V, 220V AC)
Quad Flash: 12V DC Only

Amp Draw: 0.5 Amps @ 12V DC
0.3 Amps @ 24V DC

Joules: **Single Flash:** 3 joules
Quad Flash: 3.75 joules

Lens color: Amber, Blue, Clear, Green, Red, Magenta

Mounting: Permanent Mount
1/2" Pipe Mount
Magnetic Mount

**Magnetic mount includes metal disk with hook and loop fasteners for easy dash mounting.*

PARTS	
Lens	330
Strobe Tube	129-Z
Circuit (Single Flash)	181-Z-12
Circuit (Quad Flash)	181-ZQ-12
Gasket	381
Clamp Ring	365-Z
Magnet	177
Cig Plug with Lighted on/off Switch	176-SW
Eye Shield	386

201Z Series - Compact Low Profile

201Z Series

The 201Z Series is a small, dynamic, low profile strobe with a quick-snap lens and a high impact resistant plastic base assembly for easy field repairs. The polycarbonate lens is sealed to the base with a water resistant enhanced O-ring. Ships complete with mounting hardware and instructions.

Models:

201Z Series: 201Z: Single Flash; 201ZQ: Quad Flash; 201ZM*: Single Flash; 201ZMQ*: Quad Flash 3-3/4"H x 4-1/4"Dia., 1.5 lbs.

Specifications:

Voltage: **Single Flash:** 12V DC (available 24V, 36V, 48V DC, or 110V-120V, 220V AC)
Quad Flash: 12V DC Only

Amp Draw: 0.5 Amps @ 12V DC
0.3 Amps @ 24V DC

Joules: **Single Flash:** 3 joules
Quad Flash: 3.75 joules

Lens color: Amber, Blue, Clear, Green, Red, Magenta

Mounting: Permanent Mount
1/2" Pipe Mount
Magnetic Mount

**Magnetic mount includes metal disk with hook and loop fasteners for easy dash mounting.*

PARTS	
Lens	330-_1
Strobe Tube	129-Z
Circuit (Single Flash)	181-Z-12
Circuit (Quad Flash)	181-ZQ-12
O-ring Gasket	381-1
Magnet	177
Cig Plug with Lighted on/off Switch	176-SW
Eye Shield	386

203MV Series - Multivoltage Compact

203MV Series

LOW PROFILE
The 203MV Series is a compact, low profile strobe that is ideal for many applications. The twist on/off lens and base with flange are molded with a durable polycarbonate plastic. Ships complete with mounting hardware and instructions.

Models:

203MV Series:	12V-72V DC 3-1/2"H x 5-1/16"Dia., 1 lb.

Specifications:

Voltage:	12V - 72V DC
Amp Draw:	0.5 Amps
Joules:	1.5 joules
Lens color:	Amber, Blue, Clear, Green, Red, Magenta
Mounting:	Flange Mount (5-1/16'' diameter circle with 3 holes)

PARTS	Part #
Lens	320
Strobe Tube	129-Z
12-72V DC Circuit	181TMV

204MV Series - Multivoltage Compact

204MV Series

LOW PROFILE
The 204MV is a space saving solution. Fits almost anywhere! It is ideal for a wide variety of applications. The twist on/off lens and base with flange are molded with a durable polycarbonate plastic. Ships complete with mounting hardware and instructions.

Specifications:

Voltage:	12V -110V DC
Amp Draw:	0.5 Amps
Joules:	1.75 joules
Lens color:	Amber, Blue, Clear, Green, Red, Magenta
Mounting:	Flange Mount, 1/2" Pipe Mount
	5"H x 4-7/8"Dia. 1 lb.

PARTS	Part #
Lens	234
Strobe Tube	129-L

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200J & 200U Series - Special Application

200J Series

PARTS	Part #
Lens	333
Outer Dome	325-L
Strobe Tube (200J)	129-Z
Strobe Tube (200U)	129-U
Single Flash Circuit (200J)	181-Z-12
Quad Flash Circuit (200J)	181-ZQ-12
Single Flash Circuit (200U)	181-U-110

The 200J and 200U Series strobes were designed for special application needs. The 200U is designed for indoor use with a patented AC circuit. Ships complete with mounting hardware and instructions.

Models:

200J Series:	200J: Single Flash; 200JQ: Quad Flash, 6-1/16"H x 6-1/16" Dia. 200J-1: Single Flash; 200JQ-1: Quad Flash, 6-7/8"H x 6-1/16" Dia. All 2 lbs.
200U Series:	200U: Single Flash, 6-1/16"H x 6-1/16" Dia. 200U-1: Single Flash, 6-7/8"H x 6-1/16" Dia. All 2 lbs.

Specifications:

Voltage:	**200J Series:**	**Single Flash:**	12V DC (available 24V, 36V, 48V, or 72V DC)
		Quad Flash:	12V - 24V DC
	200U Series:	**Single Flash:**	110V-120V DC
Amp Draw:	2 Amps		
Joules:	3 joules		
Lens color:	Amber, Blue, Clear, Green, Red, Magenta		
Mounting:	Permanent Mount 1/2" Pipe Mount Flange Mount		

735PS Series - Portable

735PS

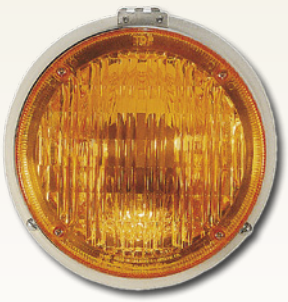
PARTS	Part #
Lens	300
Strobe Tube	129-Z
Circuit	181-Z-12
Battery	8100
Handle	202-104-1

The 735PS is a convenient portable strobe. It is constructed with a high impact, safety orange, plastic base. A 360 degree lens allows for visibility in all directions. Economical battery operation (approx. 40 hours). These lights are not Coast Guard approved.

Specifications:

Voltage:	Two 6 Volt spring terminal batteries (not included)
Amp Draw:	0.5 Amps
Joules:	3 joules
Lens color:	Amber, Blue, Clear, Green, Red, Magenta
Mounting:	Portable, Magnetic Mount Available 11-3/4"H x 7-1/4"W x 3-1/2"D 3 lb.

845S Series - Uni-Directional



845S

PARTS	Part #
Lens	8888
Strobe Tube	129-R
Single Flash Circuit	181-S-12
Quad Flash Circuit	181-Q4-12

The 845S Series are self-contained, uni-directional strobes. They offer a fully gasketed, rugged anodized aluminum case and the circuit is completely encapsulated for increased shock and weather resistance. RFI protection is available for quad flash. Ships complete with mounting hardware and instructions.

Models:

845S Series:	845S: Single Flash; 845SQ: Quad Flash 3-5/16"H x 8-1/4"Dia., 3 lb.

Specifications:

Voltage:	**Single Flash:**	12V DC (available 24V, 36V, 48V, 72V DC)
	Quad Flash:	12V - 24V DC
Amp Draw:	2 Amps	
Joules:	**Single Flash:**	8.3 joules
	Quad Flash:	17.3 joules
Lens color:	Amber or Red	
Mounting:	Flange Mount	
Approvals:	CFR 49, Part 221 (Red)	

20RH/20RI/450A/450B/455BH Series

450A

455BH

20RH

PARTS 20RI, 20RH	PART#
Bulb 12V (Halogen)	2073-795X
12V (Incandescent)	2073-1195
24V (Incandescent)	1638
36V (Incandescent)	1062
48V (Incandescent)	10498*
Lens	325-L
Clamp Ring	4123
Base	4100
Rotator	920-0
Fast Rotator	920-0F

*Available only from STAR

PARTS 450 Series	PART#
Bulb 12V (Halogen)	2073-795X
12V (Incandescent)	2073-1195
Lens	134-L

PARTS 455BH Series	PART#
Bulb 12V (Halogen)	2073-795
12V (Incandescent)	2073-1195
Rotator filter	920-100
Lens	134-L

The 450A and 450B series are built with heavy-duty spun aluminum bases, while the 20RH and 20RI series are manufactured with rugged die-cast aluminum bases. The 450A has an open bottom while the 20RH, 20RI, and 450B have enclosed bottoms. The 455BH series are built with a durable polycarbonate plastic base. Patented shock mounted rotators with two sealed roller bearings provide quiet, smooth and maintenance free operation. Lock-and-stay bulbs are field replaceable. Durable polycarbonate plastic outer domes keep our lights corrosion, weather, and impact resistant. Ships complete with mounting hardware and instructions.

Models:

20RH/20RI Series:	20RH/20RHM: Halogen; 20RI/20RIM: Incandescent 7"H x 6"Dia., 2 lbs.
450A Series:	450A: Incandescent; 450AH: Halogen 7-5/8"H x 8-7/8"Dia., 3 lbs.
450B Series:	450B: Incandescent; 450BH: Halogen 8-7/8"H x 8-1/4"Dia., 3 lbs.
455BH Series:	455BH: 80fpm(+/-10); 455BHF: 160fpm(+/-10) 7"H x 8"Dia., 3 lbs.

Specifications:

Voltage:	12V DC	
Amp Draw:	Incandescent: Halogen:	2.7 Amps (35 watts) 4.0 Amps (50 watts)
Flash Rate:	Standard: High-Speed: Available:	80fpm(+/-10) 160fpm(+/-10) 120fpm(+/-10)
Lens Color:	Amber, Blue, Clear, Red	
Filter Color:	Amber, Blue, Green, Red	
Mounting:	450A/455B: 450B: 20RH/20RI:	Permanent mount Permanent mount, 3/4" pipe mount Permanent mount, 1/2" pipe mount Magnetic Mount available
Approvals:	450AH: SAE J845 Class1: Amber, Blue, Clear, Red 20RH: SAE J845 Class1: Amber, Blue, Clear, Red	

400 Series

400A

400B

PARTS - 400A, 400B	Part #
Lens	134-L
Bulb - 12V	2073-7400
Bulb - 24V	2073-4505
Motor	P4000
Clamp Ring (400B)	4022

STAR'S Revolving Sealed Beam Lights feature heavy duty motors and shaft assemblies for dependable durability. Our top-of-the-line sealed gear assembly eliminates the need for lubrication, thus reducing required maintenance. Choose from two or four, 35 watt/33,000cp, sealed beams to generate eye-catching light that commands attention in any application. Design accommodates quick in-field repairs when those rare occasions arise. Heavy duty polycarbonate plastic outer domes keep our lights corrosion, weather, and impact resistant. Rugged construction with an anodized spun aluminum housings provide long trouble-free life. Ships complete with mounting hardware and instructions.

Models:

400 Series:	400A: 2 Sealed Beam, 8-7/8"H x 9" Dia., 6 lbs. 400B: 2 Sealed Beam, 8-7/8"H x 8-1/4" Dia., 7 lbs.

Specifications:

Voltage:	12V DC or 24V DC	
Amp Draw:	400A/400B:	6.5 Amps @ 12V DC
Flash Rate:	100fpm	
Lens color:	Amber, Blue, Clear, Red	
Mounting:	400A: 400B:	Permanent mount Permanent mount, 3/4" pipe mount
Approvals:	400A:	SAE J845 Class 1: Amber

1188HM - Hot Shot II

1188HM

PARTS	Part #
Bulb Halogen	2073-H27
Lens	396
Cig plug with lighted On/Off Switch	176-SW
Vinyl Shield	90075

The 1188 Series Hotshot II is our most compact portable emergency dash light. A 27 watt halogen bulb combined with a highly polished reflector gives this light a high intensity flash. Ships complete with mounting hardware and instructions.

Models:

1188 Series:	**1188H: Permanent Mount; 1188HM: Magnetic Mount 4-3/4"H x 4-7/8"Dia., 2 lbs.**

Specifications:

Voltage:	12V DC
Amp Draw:	2.1 Amps (27 watts)
Flash Rate:	80fpm(+/-10)
Lens Color:	Amber, Blue, Clear, Green, Red, Magenta
Mounting:	Permanent Mount, Magnetic Mount

1166HM - Teardrop

1166HM

PARTS	Part #
Bulb	
Halogen	2073-795X
Incandescent	2073-1295
Lens	425
Clamp ring	30165-2
Cig plug with lighted On/Off Switch	176-SW
Vinyl Shield	90059

The aerodynamic 1166 Series light is ideal for unmarked cars or volunteers. Ships complete with mounting hardware, cig plug with lighted On/Off switch, and instructions.

Models:

1166 Series:	**1166IM: Incandescent; 1166HM: Halogen 4-7/8"H x 5-5/16"W x 6-3/4"D, 2.5 lbs.**

Specifications:

Voltage:	12V DC	
Amp Draw:	Incandescent: Halogen:	2.7 Amps (35 watts) 4.0 Amps (50 watts)
Flash Rate:	160fpm(+/-10)	
Lens Color:	Amber, Blue, Clear, Green, Red	
Mounting:	Magnetic Mount	

1169HM - Pancake

1169HM

PARTS	Part #
Bulb Halogen	2073-797
Lens	393
Cig plug with lighted On/Off Switch	176-SW
Vinyl Shield	90068

The halogen 1169 Series light features a low profile design, allowing it to fit under sloping windshields with minimum obstruction and maximum visibility. It also features a wide angle reflector for longer flash duration and brighter pulse. Ships complete with mounting hardware, 60 lb. pull magnet, and a cig plug with lighted On/Off switch.

Models:

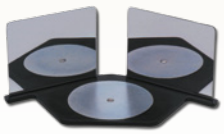
1169 Series:	**1169H: Permanent Mount; 1169HM: Magnetic Mount 3-19/32"H x 7-15/64"Dia., 2 lbs.**

Specifications:

Voltage:	12V DC
Amp Draw:	4.0 Amps (50 watts)
Flash Rate:	80fpm(+/-10)
Lens Color:	Amber, Blue, Clear, Green, Red
Mounting:	Permanent Mount, Magnetic Mount

Dash Mounting Brackets

274-874 Suction Cup Bracket
Size: 4"W x 11"D (adjustable plate)
Weight: 4 lbs.



274-875 Universal Dash Bracket
Size: 4-1/2"H x 11-3/8W" x 5-3/4"D
Weight: 4 lbs.

274-878 Hotshot II Dash Bracket
Size: 4-3/4"H x 10-3/8W" x 5"D
Weight: 4 lbs.

20ZI/21ZI Series - Very Low Profile

20ZI Series

20ZIM Series

The 20ZI and 21ZI Series are our most popular flashing incandescent lights. On the 20ZI, the polycarbonate lens is clamped to the rugged die-cast aluminum base with a fully gasketed aluminum retaining ring to enhance water resistance. The 21ZI Series offers a quick snap lens and a high impact resistant polycarbonate plastic base assembly for easy field repairs. The polycarbonate lens is sealed to the base with a water resistant enhanced O-ring. Available in steady burn. Ships complete with mounting hardware and instructions.

Models:

20ZI Series:	20ZI: Permanent Mount; 20ZIM: Magnetic Mount 3-3/4"H x 4-1/8" Dia., 2 lbs.
21ZI Series:	21ZI: Permanent Mount; 21ZIM: Magnetic Mount 3-3/4"H x 4-1/8" Dia., 2 lbs.

Specifications:

Voltage:	12V DC (available 24V, 36V, 48V DC, or 110V-120V AC)
Amp Draw:	1 Amp @ 12V, 24V, 36V, 48V DC 0.2 Amps @ 110V-120V AC
Output:	15cp - 50cp
Lens color:	Amber, Blue, Clear, Green, Red, Magenta
Mounting:	Permanent Mount 1/2" Pipe Mount Magnetic Mount

PARTS	Part #
Lens (20ZI Series)	330
Lens (21ZI Series)	330-_1
Bulb	
12V	2073-94
24V	2073-1638
36V	2073-1062
110/120V AC	2073-15T7DC
Circuit	181-FI-12
Cord/Plug*	176-SW
Clamp Ring	365-Z

*(*Standard on 20ZIM/21ZIM Series only).*

20FI Series - Medium Profile

20FI-1 Series

The 20FI Series is a medium profile flashing incandescent light. The polycarbonate lens is clamped to the rugged die-cast aluminum base with a fully gasketed aluminum retaining ring to enhance water resistance. An economical choice for many applications, also available in steady burn. Ships complete with mounting hardware and instructions.

Models:

20FI Series:	20FI: Permanent Mount 20FI-1: Permanent Mount w/Clear Outer Dome 6-1/16"H x 6-1/16" Dia., 3 lbs.

Specifications:

Voltage:	12V DC (available 24V, 36V, 48V DC, or 110V-120V AC)
Amp Draw:	1 Amp @ 12V, 24V, 36V, 48V DC 0.2 Amps @ 110V-120V AC
Output:	15cp - 50cp
Lens color:	Amber, Blue, Clear, Green, Red, Magenta
Mounting:	Permanent Mount 1/2" Pipe Mount

PARTS	Part#
Outer Dome	325-L
Lens	333
Bulb	
12V	2073-94
24V	2073-1638
36V	2073-1062
110/120V AC	2073-40T8DC
Circuit	181-FI-12
Clamp Ring	4123
Base	4100

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STAR WARNING SYSTEMS
Hecho en U.S.A.

747 Series - Barricade Light

747

The 747 Series barricade lights offer the thickest case in the industry giving them a damage resistant reputation. They will provide years of service even through severe climate conditions and abuse. The circuit is completely encapsulated for increased shock and weather resistance. Operates with standard 6V spring-terminal batteries (not included). Ships complete with 3-1/4" bolt, nut, and protective cup for mounting (3-3/4", 4" or 5" bolts available).

Models:

747 Series:	747: Standard; 747-PC: With Photocell 747LED: With LED and Photocell 12-1/8"H x 7-1/8"W x 3-7/16"D, 2 lb.

Specifications:

Voltage:	**Flashing:**	6V or 12V DC
	Steady Burn:	6V DC
Amp Draw:	.07 - .13 Amps	
Output:	.19 - .8cp	
Lens Color:	Amber (standard), Blue, Clear, Green, Red	
Case Color:	Orange (standard), Blue, White, Green, Red, Black, Yellow	
Mounting:	Portable	
Approvals:	Meets all ITE Specifications for: Type A 12V Flashing Warning Lights Type C 6V Steady Burn Lights	

PARTS	Part #
Battery	8100
Bulb	
Steady Burn 6V	2073-47
Flashing 6V	2073-1850
Flashing 12V	2073-1408
Flasher Assembly	7130-*
Lens Half	7076
Case, Top	7101
Case, Bottom	7100
Nut Plate	7112
Tamperproof Bolt	7017.3-1/4
Protective Cup	7009
Mounting Bracket	7023
Wrench	7016-6
Switch Pin	30019-9

*Part number will vary depending on specifics of light.

735F Series - Portable

735FI

Shown above with Optional Handle and Optional Toggle Switch

The 735F Series is an economical, portable flashing incandescent light. It is constructed with a high impact, safety orange, plastic base. A 360 degree polycarbonate plastic lens allows for visibility in all directions. Economical battery operation (approx. 1500 hours). Operates with standard 6V spring-terminal batteries (not included). These lights are not Coast Guard approved.

Models:

735-F:	6V flashing
735P-F:	6V flashing with photocell
735-SB:	6V steady burn
735P-SB:	6V steady burn with photocell
735FI:	12V flashing
735FI-PC:	12V flashing with photocell
	11-3/4"H x 7-1/4"W x 3-1/2"D, 3 lb.

Specifications:

Voltage:	**Flashing:**	6V or 12V DC
	Steady Burn:	6V DC
Amp Draw:	0.07 Amps @ 6V steady 0.09 Amps @ 6V flashing 0.13 Amps @ 12V	
Output:	.19 - .8cp	
Lens color:	Amber, Blue, Clear, Green, Red, Magenta	
Mounting:	Portable Magnetic Mount Available	

Note: This light is not Coast Guard approved.

PARTS	Part #
Bulb	
Steady Burn 6V	2073-47
Flashing 6V	2073-1850
Flashing 12V	2073-1408
Flashing Assembly	7030-*
Lens	300
Switch	8222
Handle	202-104-1
Battery	8100

*Part number will vary depending on specifics of light.

DLXT Series Thinline Perimeter LED Lights

At only 1/2" thick, these high intensity LED lights are built with fully encapsulated circuitry and can be mounted just about anywhere, interior or exterior! Available in four different series, these LED heads can be mounted in four different, weather resistant bezel options in either Black or Chrome finishes. Reverse polarity protected and current limiting protection over the entire operating voltage is standard. S-LINK SYSTEM™ is also standard offering synchronizing capability with other STAR LED units. Optional mounting brackets are available for the single rectangular series only. Ships complete with permanent mounting hardware, gaskets, and instructions.

Models:

DLXT Series Standard Warning LED Light
21 Customer selectable flash patterns; including Steady-On
Colors: See Below

DLHT Series Hazard Turn Light
Synchronized flashing warning lights (flashes with turn signal input)
Colors: See Below
20 Customer selectable flash patterns

DLTT Series Auxiliary Stop/Tail/Turn LED Light
Dim day time running tail lights (turn bright with brake signal & flash with turn signal)
Colors: Red/Red, White/White, Green/Green, Blue/Blue, Amber/Amber

DLNT Series 16 LED Steady Burn Value Head
Down lighting
Colors: Red/Red, White/White, Green/Green, Blue/Blue, Amber/Amber

Single Black Bezel
Surface Mount or mount with optional brackets

Single Chrome Bezel
Surface Mount or mount with optional brackets

Specifications:

Dimensions:	**Single Bezel:**	**2-1/4" H x 5-3/4" W x 1/2" D**
	Dual Bezel:	**4" H x 5-3/4" W x 1/2" D**
	Triple Bezel:	**5-3/4" H x 5-3/4" W x 1/2" D**
Voltage:		**10V - 16V DC or 24V DC**
Amp Draw:		**0.3 Amps @ 12V DC** **0.2 Amps @ 24V DC**
Colors:		**DLXT & DLHT Series: Amber/Amber, Blue/Blue, Green/Green, Red/Red, White/White, Amber/Blue, Amber/Red, Amber/White, Red/Blue, Blue/White, Red/White**

Specific model numbers vary between series and color combinations. Call for details when ordering.

Dual Black Bezel
Surface Mount

Triple Black Bezel
Surface Mount

Oval Black Bezel Surface Mount
or use with standard 6" oval rubber grommets (not for use with optional brackets)

Oval Bezel
Easily fits standard 6" oval rubber grommets. (grommets not included. Order part# 527)

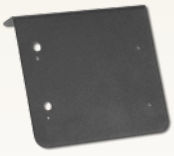
Optional Mount Brackets

274-DLXT-T
Bracket for Trunk Mounting

274-DLXT-45
Bracket for 45° Angle Mounting

274-DLXT-U
L-Bracket for Universal Mounting

274-DLXT-W
Bracket for Window Mounting



274-DLXT-2X1
L-Bracket for Mounting Two Single Bezel Series LED Lights Vertically

274-DLXT-1X2
L-Bracket for Mounting Two Single Bezel Series LED Lights Horizontally

274-DLXT-RL
Bracket for License Plate Mounting

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STAR WARNING SYSTEMS The U.S.A.

DLX4 & DLX6 Series VersaStar® LED Lights

DLX4

DLX6

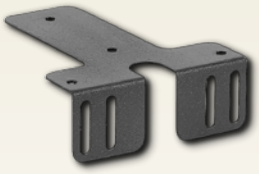
DLX4-HK

Cig Plug includes Pattern Select and On/ Off Switches

DLX4-HK2

DLX6-HK2

DLX6-HK2



274-DLX4-6-H
Optional Headliner Bracket for DLX4-HK, DLX4-HK2, DLX6-HK, and DLX6-HK2 Series with a Flashback Hood

VersaStar®DLX4 Series & DLX6 Series are versatile LED Warning Lights that are built with fully encapsulated circuitry and can be mounted just about anywhere, interior or exterior! DLX4s & DLX6s are the same size which allows for easy relocation or reconfiguration. The DLX4s are designed for flush or bracket mounting while the DLX6s are designed for bracket mounting only. The DLX6 also incorporates a heavy duty heat sink. Both series include the same snap on bezel or are available with flashback hoods that include either a cig plug adapter or with a 12' wire harness. These high intensity LED lights are reverse polarity protected and current limiting protection over the entire operating voltage is standard. S-LINK SYSTEM™ is also standard offering synchronizing capability with other STAR LED units along with 21 customer selectable flash patterns that give these LED lights versatility in the field. Optional mounting brackets are available. Ships complete with permanent mounting hardware, gaskets, and instructions.

Models:

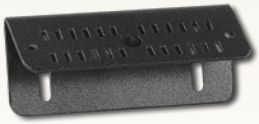
DLX4:	4 array LED head with Black Bezel
DLX4C:	4 array LED head with Chrome Bezel
DLX4W:	4 array LED head with Clear Bezel
DLX4-HK:	4 array LED head with Flashback Hood, cig plug adapter
DLX4-HK-1:	4 array LED head with Flashback Hood, 12' wire harness
DLX4-HK2:	Dual 4 array LED heads with Flashback Hood, cig plug adapter
DLX4-HK2-1:	Dual 4 array LED heads with Flashback Hood, 12' wire harness
DLX6:	6 array LED head with Black Bezel
DLX6C:	6 array LED head with Chrome Bezel
DLX6W:	6 array LED head with Clear Bezel
DLX6-HK:	6 array LED head with Flashback Hood, cig plug adapter
DLX6-HK-1:	6 array LED head with Flashback Hood, 12' wire harness
DLX6-HK2:	Dual 6 array LED heads with Flashback Hood, cig plug adapter
DLX6-HK2-1:	Dual 6 array LED heads with Flashback Hood, 12' wire harness

Specifications:

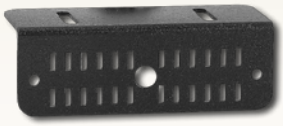
Dimensions:	1" H x 3-5/8" W x 3/4" D (single units)	
Voltage:	10V - 30V DC	
Amp Draw:	DLX4:	0.7 Amps @ 12V DC, 0.3 @ 24V DC
	DLX6:	0.9 Amps @ 12V DC, 0.5 @ 24V DC
Color Combinations:	Amber/Amber, Blue/Blue, Green/Green, Red/Red, White/White, Amber/Blue, Amber/Red, Amber/White, Red/Blue, Red/White, Blue/White	
Approvals:	DLX4:	Class I, California Title 13 (Amber, Blue, Red, White)
	DLX6:	Class I, California Title 13 (Amber, Blue, Red, White, Red/Blue)

Optional Mounting Brackets

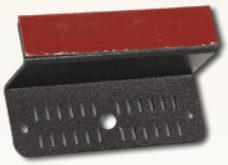
274-DLX4-6-T
Bracket for Trunk Mounting



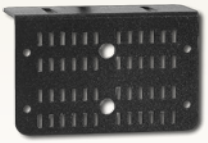
274-DLX4-6-45
Bracket for 45° Angle Mounting



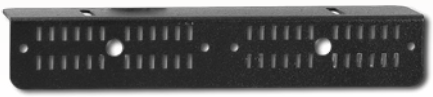
274-DLX4-6-U
L-Bracket for Universal Mounting



274-DLX4-6-W
Bracket for Window Mounting



274-DLX4-6-2X1
L-Bracket for Mounting Two DLX4 or DLX6 LED Lights Vertically



274-DLX4-6-1X2
L-Bracket for Mounting Two DLX4 or DLX6 LED Lights Horizontally

274-DLX4-6-RL
Bracket for License Plate Mounting

DLX3 Series - Auxiliary Light

DLX3

The patented DLX3 series LED auxiliary light is a small and powerful weather resistant package perfect for mounting on motorcycle saddlebags, in trunks, on vehicle fenders, mirrors, or any place a small intense LED light is needed. Using STAR generation-4 LEDs it has current limit protection over the entire operating voltage range and reverse polarity protection gives you worry free operation. S-LINK SYSTEM™ is standard offering synchronizing capability with other STAR LED units. High/Low power select and 21 different customer selectable flash patterns are available, including a Steady On, for many customized possibilities. Ships complete with 3' attached wire harness, gasket, hardware, and instructions.

Specifications:

Dimensions:	1" H x 3-5/8" W x 3/4" D (single units)
Weight:	Less than 1 lb.
Voltage:	10V - 16V DC
Amp Draw*:	0.29 Amps
Colors:	Amber, Blue, Red, White, Green
Approvals:	SAE J595, J1318 Class I, California Title 13 (Red, Blue)

**Amp draw will vary depending on the color of the LED heads used and the flash pattern selected.*

M-Tech® DL Series - Dash/Deck LED Lights

DL35-6

The M-Tech® series LED lights are the latest to incorporate highly efficient optics. Designed for interior dash, deck, or window mounting. The DL35 series LED lights offer an extremely wide light distribution. Choose from single or double LED head units. They offer customer selectable flash patterns, reverse polarity protection, and auto-voltage adjustment (10V - 16V DC). S-LINK SYSTEM™ is standard offering synchronizing capability with other STAR LED units. The circuitry is encased in a durable polycarbonate plastic housing that includes a flashback reduction hood. Rated for up to 100,000 hours of use with an extremely low amp draw. These units are ideal for all types of emergency vehicles. They are shipped complete with mounting hardware and instructions.

DL35-6-1

Models:

DL35-6: Cigarette plug adapter w/lighted on/off switch, 35 Customer selectable flash patterns, flash pattern select button, dual color availability.

DL35-6-1: 12' – Four conductor wire harness, synchronizing capabilities, 4 Flash phases, 22 Customer selectable flash patterns, flash pattern select button, dual color availability.

DL35-12: Cigarette plug adapter w/lighted on/off switch, 35 Customer selectable flash patterns (two patterns keep RED side on steady to meet certain state requirements), flash pattern select button, single color for each head.

DL35-12-1: 12' – Four conductor wire harness, synchronizing capabilities, 4 Flash phases, 22 Customer selectable flash patterns (two patterns keep RED side on steady to meet certain state requirements), flash pattern select button, single color for each head.

DL35-12

Specifications:

Size:	**DL35-6 Series:**	2"H x 6"W x 5"D
	DL35-12 Series:	2"H x 12"W x 5"D
Weight:	Less than 2 lbs.	
Voltage:	10V - 16V DC	
Amp Draw:	**DL35-6 Series:**	0.4 Amps (max)
	DL35-12 Series:	0.8 Amps (max)
Colors:	Amber, Blue, Green, Red, White	
Approvals:	**DL35-6:**	SAE Class I Red or Blue
	DL35-12:	SAE Class I Red/Blue, Red or Blue

DL35-12-1

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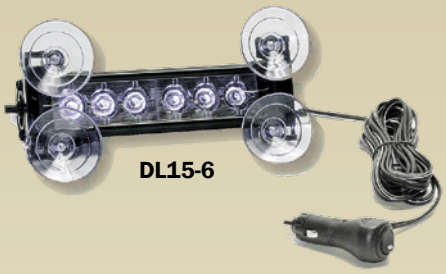
STAR WARNING SYSTEMS THE U.S.

STARBURST™ DL15 SERIES - INTERIOR/EXTERIOR



DL15-6

The STARBURST™ series LED lights are compact, durable, and powerful. Designed for dash, deck, window, mirror, or grille mounting. The DL15 series LED lights are high intensity, STAR generation-3 LED lights, offered in 6" or 11" widths and are rotationally adjustable. Customer selectable flash patterns, reverse polarity protection, and auto-voltage adjustment (10V - 16V DC). S-LINK SYSTEM™ is standard offering synchronizing capability with other STAR LED units. The circuitry is encased in a rugged extruded aluminum housing for protection against shock and vibration. Rated for up to 100,000 hours of use with an extremely low amp draw. These units are ideal for all types of emergency vehicles. They are shipped complete with suction cups, 3 different sets of mounting legs, and instructions.

DL15-6W-1K

Models:

DL15-6: Interior mount only, 6 LED array unit, cig plug with lighted on/off switch, pattern select switch, 30 different customer selectable flash patterns.

DL15-6W: Interior/Exterior mount, 6 LED array unit, weatherproof 12' three conductor cable, 30 different customer selectable flash patterns.

DL15-6W-1K: Interior/Exterior mount synchronized kit, one pair of 6 LED array units (two DL15-6W-1 units that can be synchronized for Simultaneous or Alternating flashing), weatherproof 12' three conductor cables, 3 different customer selectable flash patterns.

DL15-6MMB: Interior mount only kit, mirror mount bracket, 6 LED array unit, cig plug with lighted on/off switch, pattern select switch, 30 different customer selectable flash patterns.

DL15-6GMB: Interior/Exterior mount, grille mount bracket, 6 LED array unit, weather-proof connector, 12' three conductor cable, 30 different customer selectable flash patterns.

DL15-12: Interior mount only, 12 LED array unit, cig plug with lighted on/off switch, pattern select switch, 35 different customer selectable flash patterns.

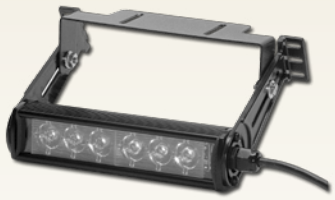
DL15-12W: Interior/Exterior mount, 12 LED array unit, weatherproof 12' three conductor cable, 35 different customer selectable flash patterns.

DL15-12

DL15-6MMB

Specifications:

Size:	**DL15-6 Series:** 1-9/16"H x 6"W x 1-5/16"D **DL15-12 Series:** 1-9/16"H x 11"W x 1-5/16"D
Weight:	Less than 2 lbs.
Voltage:	10V - 16V DC
Amp Draw*:	DL15-6: 0.8 Amps DL15-12: 1.6 Amps
Colors:	Amber, Blue, Red, White, Green
Mounting Options†:	Suction cups Universal mounting channel 5" permanent mount legs (over third brake light) 2-7/8" permanent mount legs 1-3/4" permanent mount legs Grille Mount Mirror Mount †suction cups and all mounting legs are included (DL15-BKT)
Approvals:	SAE J595, SAE J1318 Class I, and California Title 13 for RED and BLUE (*Does not apply to all flash patterns)



DL15-6GMB

PARTS	Part #
Universal mount kit	DL15-BKT
Deck mount kit	DL15-SMTK
Suction cup kit (four)	DL15-CUPK
Suction cup (one)	DL15-CUP
Grille mount bracket kit	274-DL15GMB
Mirror mount bracket kit	274-DL15MMB

ULB9 - STAR MINI-PHANTOM® UNDERCOVER LED LIGHT

Now with 22% more LEDs!

ULB9

Shown with available flashback hood

Mirror Mount

Deck Mount

Suction Cup Mount

Available: **274-ULB9CH**
Dodge Charger Headliner Bracket

PARTS ULB9	Part #
Suction Cup (One)	DL15-CUP
Complete Universal Mount Kit	274-ULB9BKT
Cig Plug w/Lighted On/Off Switch and pattern select	P920-PAT20LO

The patented STAR Mini-Phantom®, interior mount, LED light is perfect for undercover or unmarked vehicle applications. The ULB9 has an extremely thin profile, less than 1" high, that easily mounts to your dash, deck, mirror, or windows (with suction cups). At only 9" long, the 66 long life, alternate flashing LEDs give the STAR Mini-Phantom® the power and flexibility you need with 35 customer selectable flash patterns with the push of a button. The ULB9 is also available with a 12' hardwire lead version that will synchronize with other ULB9's (Model# ULB9-1). S-LINK SYSTEM™ is standard offering synchronizing capability with other STAR LED units. A two head kit is also available (RLKULB9-1) that offers 6 customer selectable flash patterns. The ULB9 ships complete with cig plug with lighted On/Off switch, 3 versatile mount options (suction cup mount, rear view mirror mount, and dash or deck mount), hardware, and instructions.

Models:

ULB9:	**Cig plug with lighted on/off switch and pattern select**
ULB9-1:	**12' wire leads**
RLKULB9-1:	**ULB9-1 Kit consisting of two ULB9-1's 15' wire leads**

Specifications:

Size:	**15/16"H x 9"W x 1-3/8"D**
Weight:	**Less than 1 lb.**
Voltage:	**10-16V DC**
Amp Draw*:	**1.4 Amps Max**
Color Combinations:	**Amber, Blue, Green, Red, White**

**Amp draw will vary depending on the color of the LED heads used and the flash pattern selected.*

ULB9S - STARBURST MINI-PHANTOM® UNDERCOVER LED LIGHT

Now with Generation IV LEDs

Mirror Mount

Deck Mount

Suction Cup Mount

Available: **274-ULB9CH**
Dodge Charger Headliner Bracket

PARTS ULB9S	Part #
Suction Cup (One)	DL15-CUP
Complete Universal Mount Kit	274-ULB9BKT
Cig Plug w/Lighted On/Off Switch and pattern select	P920-PAT20LO

Star Signal Vehicle Products is proud to introduce the new ULB9S Starburst Mini-Phantom Undercover LED Light. Ideal for unmarked vehicles, the ULB9S is equipped with 6 Generation IV StarBurst LEDs and with its slim profile stands less than 1" high. The ULB9S is also available in single or dual colors and comes equipped with 35 customer selectable flash patterns via the rocker switch on the cigarette plug. The ULB9S is easily customizable, with a 12' cable that will synchronize with any other STAR LED light (Model# ULB9S-1). A two head kit is also available (RLKULB9S-1) that offers 6 customer selectable flah patterns. In addition, this newest addition to the Phantom series ships complete with 3 versatile mount options (suction cup, rear view mirror and dash or deck).

Models:

ULB9S:	**Cig plug with lighted on/off switch and pattern select**
ULB9S-1:	**12' wire leads**
RLKULB9S-1:	**ULB9S-1 Kit consisting of two ULB9S-1's 15' wire leads**

Specifications:

Size:	**15/16"H x 9"W x 1-3/8"D**
Weight:	**Less than 1 lb.**
Voltage:	**10-16V DC**
Amp Draw*:	**1.4 Amps Max**
Color Combinations:	**Amber, Blue, Green, Red, White**

**Amp draw will vary depending on the color of the LED heads used and the flash pattern selected.*

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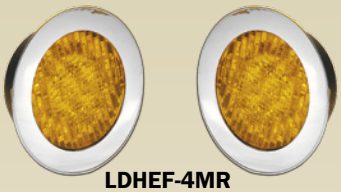
STAR WARNING SYSTEMS THE U.S.

LDHEF Series - Round & Oval

LDHEF-4



LDHEF-4MR

LDHEF-6

LDHEF-3K

Designed Specifically for Mounting Under Trunk Lids
Standard kit includes:
(2) LDHEF-3 LED heads with mounting brackets

These self-contained, flashing LED heads with built-in flashers are ready for quick installation in any situation. The 4" round LED head is available with a rubber grommet, rubber housing with brackets for trunk mounting, or with an anti-theft, bright stainless steel ring for easy snap-in installation. All LDHEF series LED heads offer customer selectable flash sequences of Random or Alternating in a completely encapsulated solid state circuit to protect against moisture and contaminates, and are synchronizable. The LED circuitry is encased in a high impact resistant, polycarbonate housing for protection against shock and vibration. Rated for up to 100,000 hours of use with an extremely low amp draw and protected against voltage spikes. These units are ideal for all types of emergency vehicles. They are shipped complete with pigtail and instructions.

Specifications:

Size:	**LDHEF-4 Series:**	**4"Dia. x 2"D**
	LDHEF-6 Series:	**2-1/2"H x 6-1/2"W x 2"D**
Weight:		**0.5 lb.**
Voltage:		**12V - 24V DC**
Amp Draw:		**Less than 0.8 Amps**
Flash Rate:		**72 Quint (5) flashes per minute**
Operating Temp.:		**-22°F to + 149°F**
Colors:		**Amber, Red, Clear, Blue**
Approvals:		**SAE J1318 Class 1: Amber, Red, Blue**
Non-Flashing LED Heads are available:		**4" Round: Part# LDH394 6" Oval: Part# LDH392**
Anti-theft, bright stainless steel ring with neoprene gasket:		**Ring Kit: Part# 30019-99**

Par 36 Self-Contained Round LED

Specifications:

- High efficiency optics available in two options:
  1. Spot (3 degrees)
  2. Trapezoidal
- Lens Colors: Amber, Blue, Clear, Green and Red
- Six Gen IV LEDs
- Voltage: 10-30V DC
- Thermal protection
- Five mounting options:
  1. Swivel Bracket
  2. Rubber Tractor Housing
  3. Direct Par 36 Sealed Beam Replacement including 4411 and 4411-1 style seal beam
  4. Rubber grommet
  5. Truck Housing w/magnet & Cig plug
- 1,200 Lumens (White 5000K Color Temperature)
- SAE Class 1, California Title 13
- Patent Pending

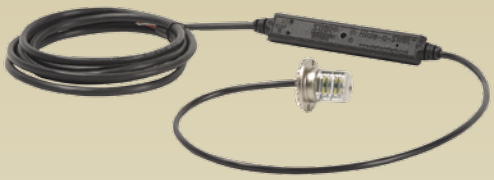
Steady Burn Lights Only (LDH-36 Series):

- SO 7637-2 spike protection

Flashing and Hazard Turn Lights Only (LDHF36 and LDHT36 Series):

- S-Link System™ synchronizing compatability
- Available in Red and Blue LEDs with clear lens
- 32 patterns plus steady burn
- Added turn signal input in order to over ride warning pattern (LDHT36 only)

HIDE-A-STAR™ IN-LINE REMOTE FLASHING LED KITS



LDHF301 Series
Directional Head

LDHF311 Series
Spherical Head

Hide-A-STAR™ in-line remote flashing LED kits are designed with NEW LED technology and self-contained, LED flashing circuitry. No need for a remote flasher module! The optics boost and concentrate light for maximum LED output. The spherical LED heads are designed with diffusing optics for extremely wide angle light. Nickel plated aluminum housings allow for our dvanced thermal heat management and easily replace standard hide-away remote strobe tubes with 1" mounting holes. S-LINK SYSTEM™ is standard offering synchronizing capability with other STAR LED units. 25 customer selectable flash patterns along with customer changeable colored lenses gives these LED lights versatility in the field. Ships complete with mounting hardware, one each colored lens, and instructions.

LDHF301 Series Kits:
Available in two cable lengths:
LDHF301-*-10: 10' Cable
LDHF301-*-30: 30' Cable

LDHF311 Series Kits:
Available in two cable lengths:
LDHF311-*-10: 10' Cable
LDHF311-*-30: 30' Cable

Specifications:

Amp Draw:	**0.5 amps per head (max)**
Voltage:	**12V-24V DC**
Lens Colors:	**Amber, Blue, Green, Red, or Clear**
Mounting:	**1" Hole**

HIDE-A-STAR™ REMOTE FLASHING LED KITS

LDK302 Series
Directional Head

LDK312 Series
Spherical Head

Hide-A-STAR™ remote flashing LED kits are designed with NEW LED technology. The optics boost and concentrate light for maximum LED output. The spherical LED heads are designed with diffusing optics for extremely wide angle light. Nickel plated aluminum housings allow for our advanced thermal heat management and easily replace standard hide-away remote strobe tubes with 1" mounting holes. S-LINK SYSTEM™ is standard offering synchronizing capability with other STAR LED units. 20 customer selectable flash patterns along with customer changeable colored lenses give these LED lights versatility in the field. Each kit ships complete with mounting hardware, one each colored lens, and instructions.

LDK302 Two Head LED Kit Includes:
1 – Flasher module
1 – 4' Cable with attached connectors
1 – 8' Cable with attached connectors
2 – LED head assemblies with
2' leads and attached connectors

LDK304 Four Head LED Kit Includes:
2 – Flasher modules
2 – 4' Cables with attached connectors
2 – 8' Cables with attached connectors
4 – LED head assemblies with
2' leads and attached connectors

LDK312 Two Head LED Kit Includes:
1 – Flasher module
1 – 4' Cable with attached connectors
1 – 8' Cable with attached connectors
2 – LED Spherical head assemblies w/
2' leads and attached connectors

LDK314 Four Head LED Kit Includes:
2 – Flasher modules
2 – 4' Cables with attached connectors
2 – 8' Cables with attached connectors
4 – LED Spherical head assemblies w/
2' leads and attached connectors

Specifications:

Optional Code Lengths:	**15', 20', 25', 30', or 35'**
Voltage:	**12V - 24V DC**
Amp Draw:	**05 amps per head (max)**
Lens Color:	**Amber, Blue, Green, Red, or Clear**
Mounting:	**1" Hole**

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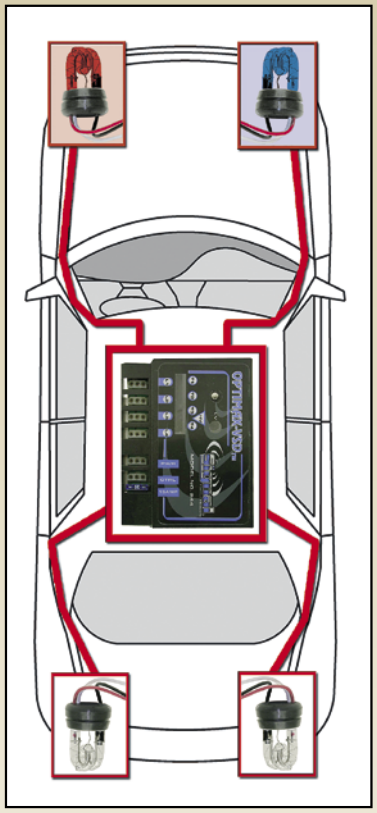
STAR WARNING SYSTEMS THE U.S.

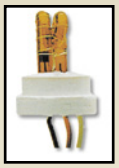
RSK Series Remote Strobe Kits



Whether you choose the OPTIMAX™ or the STAR-PAK®, you have a quality remote power supply kit that is built to last. These kits include power supplies that are offered in a wide range of output from 20 watts to 90 watts and can control from 2 to 6 remote strobe heads or flash tubes and, depending on the model you choose, interior or exterior mount. Several models offer selectable flash patterns and visual diagnostics, as well as day/night mode selections. Kits include, remote power supply, strobe heads, standard length cables, and lighted toggle switches. Display boxed kits are also available.

In the unlikely event that your system fails to operate properly, the Visual System Diagnostics (VSD™) helps diagnose the problem for RP244, RP966, and RP996. By observing a series of miniature lamps through windows located on the power supply you can evaluate four important operations of the strobe system:

1. The low voltage (input voltage)
2. The high voltage (output voltage)
3. The trigger lines (power going to strobe tubes)
4. The strobe heads enabled



ST413PA
Amber Strobe Tube

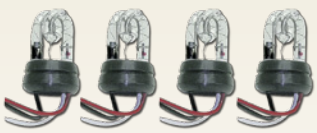
ST415PC
Clear Strobe Tube

ST413PR
Red Strobe Tube

ST413PB
Blue Strobe Tube

The PHANTOM™ STROBE TUBES are designed to mount into headlight, tail light, or marker light housings allowing your vehicle to blend in with traffic until you are ready to be noticed.

Optimax-VSD™ RSK244P 75 Watt Kit



RSK244P

The OPTIMAX-VSD™ RSK244P remote strobe kit is a complete, powerful, and economical choice for a 4-corner remote strobe system. Six different customer selectable flash patterns (Single, Double, Triple, Quad, Five, or Random) are available, along with head selection and Day/Night mode. Features power reduction to operating heads in case of head failure. Ships complete with power & control leads and instructions. Display packaging is available: RSK244P-1.

Standard Kit Includes:

(1) RP244:	**75 Watt remote power supply**
(4) ST415PC:	**Clear strobe tube assemblies**
(2) 4415:	**15' Cables with attached connectors**
(2) 4420:	**20' Cables with attached connectors**
(1) LT1511:	**Lighted toggle switch**

Optimax™ RSK242P 40 Watt Kit

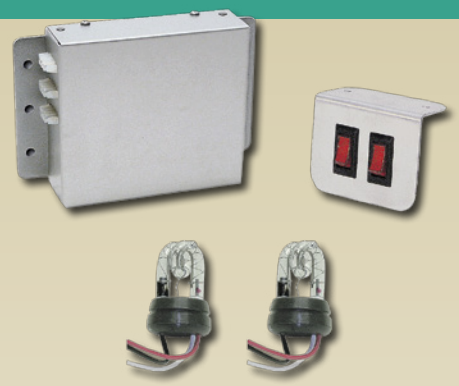
RSK242P

The OPTIMAX™ RSK242P remote strobe kit is an ideal choice where only two PHANTOM™ strobe tubes are needed. You can select flash patterns of Single, Double, Triple, Quad, Five, or Random. Customer selectable Day/Night mode. Ships complete with power & control leads and instructions. Display packaging is available: RSK242P-1

Standard Kit Includes:

(1) RP242:	**40 Watt remote power supply**
(2) ST415PC:	**Clear strobe tube assemblies**
(2) 4415:	**15' Cables with attached connectors**
(1) LT1511:	**Lighted toggle switch**

STAR-PAK® RSK310P 24 WATT KIT



RSK310P

The STAR-PAK® RSK310P remote strobe kit is an ideal choice where only two PHANTOM™ strobe tubes are needed. A fully encapsulated circuit board resists elements. Standard Quad Flash. Customer selectable Day/Night mode. Ships complete with power lead and instructions.

Standard Kit Includes:

(1) RP310Q:	**24 Watt remote power supply**
(2) ST3901:	**Clear strobe tube assemblies**
(2) 3820-180":	**15' Cables with attached connectors**
(1) SP3860-2H:	**Lighted rocker switch panel**

STAR-PAK® RSK966P 60 WATT KIT

RSK966P

The STAR-PAK® RSK966P remote strobe kit incorporates six outlets with 24 customer selectable flash patterns all in a 60 watt system. Multiple strobe head combinations can be enabled. Customer selectable Day/Night mode. Features power reduction to operating heads in case of head failure, RFI protection, and Visual System Diagnostics (VSD™). Ships complete with power & control leads and instructions. 4-head and 6-head kits are available. Display packaging is available: 6-head (RSK966P-1), 4-head (RSK966P-4-1) Available police prep harness kit for 2007 Ford Crown Victoria (RFK996-CV).

Standard Kit Includes:

RSK966P:

(1) RP966:	**60 Watt remote power supply**
(6) ST415PC:	**Clear strobe tube assemblies**
(6) 4415:	**15' Cables with attached connectors**
(1) LT1511:	**Lighted toggle switch**

RSK966P-4:

(1) RP966:	**60 Watt remote power supply**
(4) ST415PC:	**Clear strobe tube assemblies**
(2) 4415:	**15' Cables with attached connectors**
(2) 4420:	**20' Cables with attached connectors**
(1) LT1511:	**Lighted toggle switch**

STAR-PAK® RSK996P 90 WATT KIT

RSK996P

The STAR-PAK® RSK996P remote strobe kit incorporates six outlets with 24 customer selectable flash patterns all in a 90 watt system. Multiple strobe head combinations can be enabled. Customer selectable Day/Night mode. Features power reduction to operating heads in case of head failure, RFI protection, cooling fan, and Visual System Diagnostics (VSD™). Ships complete with power & control leads and instructions. 4-head and 6-head kits are available. Display packaging is available: 6-head (RSK996P-1), 4-head (RSK996P-4-1) Available police prep harness kit for 2007 Ford Crown Victoria (RFK996-CV).

Standard Kit Includes:

RSK996P:

(1) RP996:	**90 Watt remote power supply**
(6) ST415PC:	**Clear strobe tube assemblies**
(6) 4415:	**15' Cables with attached connectors**
(1) LT1511:	**Lighted toggle switch**

RSK996P-4:

(1) RP996:	**90 Watt remote power supply**
(4) ST415PC:	**Clear strobe tube assemblies**
(2) 4415:	**15' Cables with attached connectors**
(2) 4420:	**20' Cables with attached connectors**
(1) LT1511:	**Lighted toggle switch**

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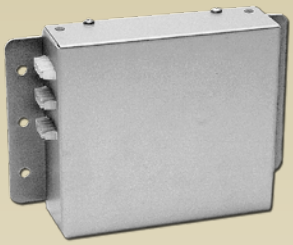
STAR WARNING SYSTEMS
THE U.S.

STAR-PAK® RP310D & RP310Q 24 WATT



RP310Q

Models:

RP310D:	Double Flash
RP310Q:	Quad Flash

Specifications:

Size:	1-3/4"H x 4-3/4"W x 6-3/4"D
Weight:	1 lb.
Outlets:	2
Output:	24 Watts
Voltage:	12V - 24V DC
Amp Draw:	2.5 Amps Max

OPTIMAX™ RP242 40 WATT

RP242

Models:

RP242:	User selectable flash pattern

Specifications:

Size:	2"H x 5-1/2"L x 4-1/4"D
Weight:	1.25 lbs.
Outlets:	2
Output:	40 Watts
Voltage:	12V - 24V DC
Amp Draw:	4.2 Amps Max

OPTIMAX™ VSD RP244 75 WATT

RP244

Models:

RP244:	User selectable flash pattern Head selectability

Specifications:

Size:	2"H x 5-1/2"L x 4-1/4"D
Weight:	1.25 lbs.
Outlets:	4
Output:	75 Watts
Voltage:	12V - 24V DC
Amp Draw:	7.8 Amps Max

STAR-PAK® RP966 60 WATT & RP996 90 WATT

RP996

Models:

RP966:	User selectable flash pattern Head selectability
RP996:	User selectable flash pattern Head selectability

Specifications:

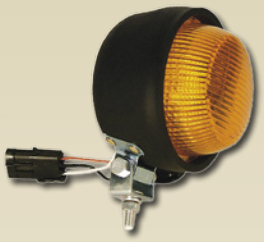
Size:	2-7/8"H x 5-1/2"L x 5-1/4"D
Weight:	1.25 lbs.
Outlets:	6
Output:	**RP966:** 60 Watts **RP996:** 90 Watts
Voltage:	12V - 24V DC
Amp Draw:	**RP966:** 7.8 Amps Max **RP996:** 9.4 Amps Max

Remote Strobe Heads

A. SH3904

B. SH3920

C. SH3930



D. SH3930E

E. SH3940

F. SH4500

G. SH4501

H. SH4601

I. SH4602

J. SH3970

K. SH3922

L. ST415P

Specifications:

A. SH3904 Round strobe head
Size: 4”Dia. x 2”D
Lens color: Amber, Blue, Clear, Red

B. SH3920 Oval strobe head
Size: 2-1/2”H x 6-1/2”H x 2”D
Lens color: Amber, Blue, Clear, Red

C. SH3930 Par-36 round strobe head
Size: 4-3/4”Dia. x 2-1/2”D
Lens color: Amber, Blue, Clear, Red

D. SH3930E Par-36 round with extended lens strobe head
Size: 4-3/4”Dia. x 3-1/2”D
Lens color: Amber, Blue, Clear, Red

E. SH3940 360° 8” strobe head with standard 180” cable (custom length cable is available)
Size: 8”H x 5-1/2”Dia.
Lens color: Amber, Blue, Clear, Red

F. SH4500 Mini-rectangular strobe head, black housing
Size: 2-3/4”H x 5”L x 2-1/2”D
Lens color: Amber, Blue, Clear, Red

G. SH4501 Rectangular strobe head, black housing
Size: 3-1/2”H x 6-1/2”W x 2-1/2”D
Lens color: Amber, Blue, Clear, Red

H. SH4601 360° 4” strobe head with standard 180” cable (custom length cable is available)
Size: 4”H x 5-1/2”Dia.
Lens color: Amber, Blue, Clear, Red

I. SH4602 360° 6” strobe head with standard 180” cable (custom length cable is available)
Size: 6”H x 5-1/2”D
Lens color: Amber, Blue, Clear, Red

J. SH3970 Round, surface mount strobe head
Size: 7”Dia. x 2”D
Lens color: Amber, Red

K. SH3922 Side mount strobe head
Size: 2-1/2”H x 6”W x 2-1/2”D
Lens color: Amber, Red

L. ST415P Phantom™ strobe tube assembly
Size: 1”Dia.
Color: Clear
Order ST413 for Amber, Blue or Red

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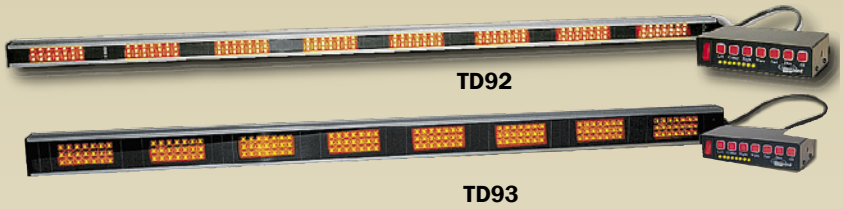
STAR WARNING SYSTEMS THE U.S.

NEW TRAFFIC DIRECTORS

TD92 & TD93 Series



TD92

TD93

STAR LED Traffic Directors are designed to give you mobile, on-site traffic-directing capabilities. Made from durable extruded aluminum, these traffic directors will not warp or bend. Use them on location for road construction, accident, or roadside repairs to steer traffic away from dangerous situations and roadway hazards. The micro-processor control unit with tactile switching offers four modes with distinctive flash options. Polycarbonate face shields allow for easy cleaning. Ships complete with control unit, attached wire harness (15' standard), mounting brackets, hardware, and instructions.

PARTS	PART#
TD92 LED Stick only	TD92-1
TD93 LED Stick only	TD93-1
Control Unit	TD77-2
TD92 L-bracket mount kit	TD77-6K
TD93 L-bracket mount kit	274-LLBK

Specifications:

Size:	**TD77-2 Control Unit:**	**1-1/2"H x 6"W x 4-1/2"D**
	TD92-1 LED Stik:	**1-1/2"H x 47-1/2"W x 1-1/2"D**
	TD93-1 LED Stik:	**2-7/32"H x 47-1/2"W x 1-1/2"D**
Weight:	**TD92, TD93: 10 lbs.**	
Voltage:	**12V DC (Available 24V DC)**	
Amp Draw:	**TD92, TD93:**	**2.1 Amps (max)**
Cable Length:	**15', 30', 45', or 60'**	
Modes:	**Left Arrow, Right Arrow, Center Out, and Warn (Alternating)**	

TD93DLXT Series

TD93DLXTAR0

TD93DLXTAR02

TD93DLXTAR0-S

TD93DLXT

STAR TD93DLXT Series LED Traffic Directors are designed to give you mobile, on-site traffic-directing capabilities. Made from durable extruded aluminum, these traffic directors will not warp or bend. Use them on location for road construction, accident, or roadside repairs to steer traffic away from dangerous situations and roadway hazards. The micro-processor control unit with tactile switching offers four modes with distinctive flash options. Modules "front load" for easy replacement of individual heads! Ships complete with control unit, attached wire harness (15' standard), flush mounting brackets (optional L-Brackets available), hardware, and instructions.

Models:

TD93DXLT:	**Traffic Director with eight LED heads, no arrows**
TD93DLXTAR0:	**Traffic Director with eight LED heads, arrows with four LED heads**
TD93DLXTAR02:	**Traffic Director with eight LED heads, arrows with eight LED heads**
TD93DLXTAR0-S:	**Split Traffic Director with eight LED heads, arrows with four LED heads**

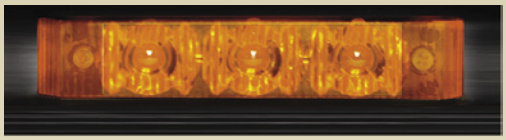
PARTS	PART#
TD93DLXT LED Stick only	TD93DLXT-1
Control Unit	TD77-2
TD93DLXT L-bracket mount kit	274-LLBK
TD93DLXT (replacement head)	TD93DLXTRH

Specifications:

Size:	**TD77-2 Control Unit:**	**1-1/2"H x 6"W x 4-1/2"D**
	TD93DLXT-1 LED Stik:	**2-7/32"H x 47-1/2"W x 1-1/2"D (less arrows)**
Weight:	**TD93DLXT: 10lbs.; TD93DLXTAR0: 15lbs.; TD93DLXTAR02: 19lbs.**	
Voltage:	**12V DC (Available 24V DC, TD93DLXT only)**	
Amp Draw:	**TD93DLXT:**	**2.7 Amps (max)**
	TD93DLXTAR0, TD93dlxtARO-S:	**4.1 Amps (max)**
	TD93DLXTAR02:	**4.8 Amps (max)**
LED Stik Length:	**48", 60", 72", 84" or 96" (excludes TD93DLXTAR0-S)**	
Cable Length:	**15', 30', 45', or 60'**	
Modes:	**Left Arrow, Right Arrow, Center Out, and Warn (Alternating)**	

TDDL15 Series - High Intensity LED Traffic Director

TDDL15-42TA



A closer look at the Starburst optics

These LED Traffic Directors are designed to give you mobile, on-site traffic-directing capabilities with 24 High Intensity STAR Generation-3 LEDs (8-arrays, 3 LEDs per array). The Black anodized extruded aluminum will not warp or bend. Use them on location for road construction, accident, or roadside repairs to steer traffic away from dangerous situations and roadway hazards. The micro-processor control unit with tactile switching offers four modes with distinctive flash options . Easily mounts with 1/4" groove on back. Polycarbonate face shields allow for easy cleaning. Ships complete with control unit, attached wire harness, mounting brackets, hardware, and instructions. Specific models are available with mounting brackets designed for Chevy Tahoe (TDDL15-42TA with a standard 22' wire harness) and Ford Crown Victoria (TDDL15-47CV with a standard 15' wire harness).

Specifications:

Size:	**TD77-2 Control Unit:**	**1-1/2"H x 6"W x 4-1/2"D**
	TDDL15-47-1 LED Stik:	**1-9/16"H x 47"W x 1-5/16"D**
	TDDL15-42-1 LED Stik:	**1-9/16"H x 42"W x 1-5/16"D**
	TDDL15-36-1 LED Stik:	**1-1/2"H x 36"W x 1-5/16"D**
Weight:	8 lbs.	
Voltage:	10V-16V DC	
Amp Draw:	3.0 Amps (max)	
Cable Length:	15', 30', 45', or 60'	
Modes:	Left Arrow, Right Arrow, Center Out, and Warn (Alternating)	

PARTS	PART#
Control Unit	TD77-2
TDDL15-47 bracket mount kit	274-LLBK
TDDL15-42TA bracket mount kit	TD92-7KTA
TDDL15-47CV bracket mount kit	DL15-BKTCV

Starburst™ DL15-30W Series - Warning/Traffic Directors

DL15-30W-ARB

The STARBURST™ DL15-30W series Warning LED light & LED Traffic Director is an all in one, 28", low profile (only 1-9/16" tall), 30 high intensity STAR generation-3, LED unit. It can be used as a warning light with 30 different customer selectable flash patterns or, with the flip of a switch, function as a Traffic Director with 3 different traffic director modes each having six different custom patterns from which to choose. Rotationally adjustable and waterproof, this unit can be utilized in a variety of applications. Current limit protection over entire operating voltage range and reverse polarity protection gives you worry free operation. The STARBURST™ DL15-30W is offered in a variety of colors and color combinations. The DL15-30W can also be used primarily as a Traffic Director. Simply order all Amber LEDs or a color combination of 18 center LEDs Amber and then choose color combinations of RED/RED, RED/BLUE, or BLUE/BLUE for the remaining outer 6 left side and 6 right side LEDs. An optional traffic director switch panel (SP1515-TDC) or Control Box (TD77-2) is available. Ships complete with 15'-six conductor cable, 3 sets of mounting legs, hardware, and instructions.

Customer Selectable Traffic Director Modes:

3 Modes: Left Arrow, Right Arrow, Center Out

6 Patterns for each arrow mode*:

traveling arrow, traveling arrow with double flashing end module, traveling arrow with continuous alternating flashing end modules (hazard lights) non-traveling arrow, non-traveling arrow with double flashing end module, non-traveling arrow with continuous alternating flashing end modules (hazard lights).

*(*Once a pattern is selected in one of the arrow modes, that "pattern" is automatically changed for the other two modes. Ex. Choose "traveling arrow" while in left arrow mode, automatically, right arrow mode and center-out mode will also be set to "traveling arrow" pattern.)*

PARTS	Part #
Deck mount kit	DL15-SMTK
Optional traffic director control panel	SP1515-TDC
Control Box (with LED feedback)	TD77-2

Specifications:

Size:	**1-9/16"H x 28"W x 1-5/16"D**
Weight:	**3 lbs.**
Voltage:	**10V - 16V DC**
Amp Draw*:	**4 Amps (max with all LEDs illuminated)**
Colors:	**All Amber, All Blue, All Red, OR Combinations of: Amber/Blue, Amber/ Red, Red/Blue, Red/White**
Mounting Options: (included)	**Universal Mounting Channel 5" permanent mount legs 2-7/8" permanent mount legs 1-3/4" permanent mount legs**
Approvals:	**SAE J595, SAE J1318, and California Title 13 for RED and BLUE (Does not apply to all flash patterns)**

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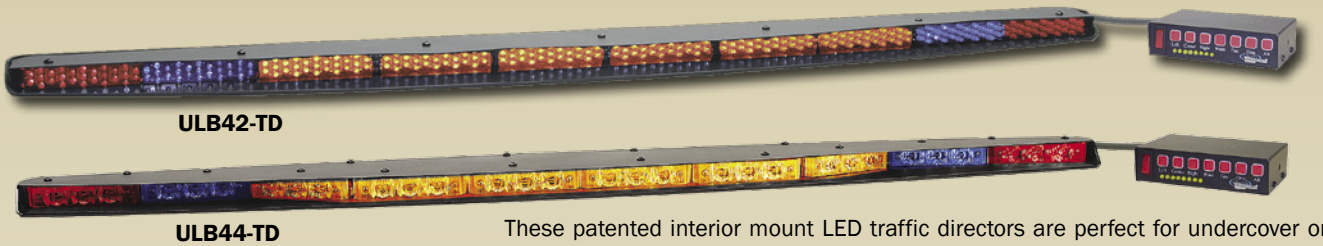
STAR PHANTOM® - UNDERCOVER LED TRAFFIC DIRECTOR



ULB42-TD

ULB44-TD

These patented interior mount LED traffic directors are perfect for undercover or unmarked vehicle applications. Made from durable polycarbonate plastic, these traffic directors will not warp or bend. With an extremely thin profile, less than 1" high, they easily mount in the rear window. The ULB42-TD offers 270 Star Generation-1 LEDs while the ULB44-TD offers 30 high intensity Star Generation-4 LEDs. The microprocessor control unit with tactile switching gives you four distinctive pattern modes with three NEW "option" buttons (Fast, Dim, and Alt). Four outboard LED sections (two at each end) allow different color combinations for warning patterns while using the six inner Amber LED sections for traffic directing. They ship complete with control unit, attached wire harness, mounting brackets, hardware, and instructions.

Models & Specifications:

Size:	**ULB42-TD-2 Control Unit:**	**1-1/2"H x 6"W x 4-1/2"D**
	ULB42-TD-1 Traffic Director:	**15/16"H x 42"W x 4-3/4"D**
	ULB44-TD-1 Traffic Director:	**15/16"H x 42"W x 4-3/4"D**
Weight:	2.6 lbs.	
Voltage:	12V DC	
Cable Length:	15', 30', 45', or 60'	
Modes:	Left Arrow, Right Arrow, Center Out, and Warn (Alternating)	

Color Combinations for outboard LED flasher sections:
Amber/Amber, Blue/Blue, Red/Red, Red/Blue

PARTS	PART#
Control Unit	ULB42-TD-2
Mounting Bracket Kit	ULB-BKT
Bulk Cable (per foot)	TD92-3

TCS SERIES - TRAFFIC SAFETY SIGNS

TCS-2

reverse

TCS-1

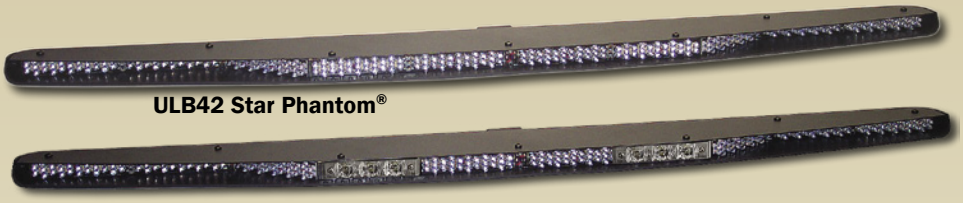
STOP/SLOW

The TCS series traffic control signs put traffic safety control right at your fingertips. Micro-processor controlled, the ultra bright flashing LED light sequences bring attention quickly to any situation. The automatic activation control means you can provide quick response to any need. When the sign is lifted upright, it turns ON. When the sign is lowered down, it shuts OFF. Operates on 3 "C" cells (not included).

Models & Specifications:

TCS-2:	**Stop/Stop Traffic Control Sign (104 LEDs)**
TCS-2REF:	**Stop/Stop Traffic Control Sign w/M.U.T.C.D. approved reflective tape (104 LEDs)**
TCS-1:	**Slow/Stop Traffic Control Sign (113 LEDs)**
TCS-1REF:	**Slow/Stop Traffic Control Sign w/M.U.T.C.D. approved reflective tape (113 LEDs)**
Size:	**18" Octagon with 6" Letters**
Weight:	**2 lbs.**
Also Available:	
TCS-6:	**6' Extension Pole (not shown)**
Approvals:	**TCS-1REF, TCS-2REF M.U.T.C.D. Code (Manual on Uniform Traffic Control Devices)**

ULB42 - Star Phantom® Undercover LED Lightbar



ULB42 Star Phantom®

ULB42-DLP Star Phantom®
w/Directional LED Pursuit Mode

The patented STAR Phantom® interior mount LED lightbar is perfect for undercover or unmarked vehicle applications. With an extremely thin profile, less than 1" high, the ULB42 series easily mounts under the center visor clips above the rear view mirror in 15-20 minutes. The ULB42 offers 270 Star Generation-1 LEDs while the ULB42-DLP offers 216 Star Generation LEDs & 6 high intensity Star Generation-4 LEDs. Both STAR Phantom® series lightbars offer 35 customer selectable flash patterns via a push button switch and a 30 second Superburst™ all LED steady burn. The ULB42-DLP also offers a Directional LED Pursuit mode. Two angled LED sections offer intersection clearing and a red "night vision" preserving map light are standard. An adjustable baffle is also included to eliminate "flash back" from the window. A rear window mount version is available with a standard 12' wire harness only for the ULB42 (ULB42-1). The ULB42 series ships complete with cig plug with lighted on/off switch, mounting brackets, hardware, and instructions.

Specifications:

Size:	15/16"H x 42"W x 4-3/4"D	
Weight:	2.6 lbs.	
Voltage:	12V DC	
Amp Draw*:	ULB42:	2.36 Amps (Average), 5.4 Amps (max)
	ULB42-DLP:	3.0 Amps (Average), 6.0 Amps (max)
Color Combo:	Amber, Blue, Green, Red, White	
Approvals:	California Title 13, SAE J595 (available) (Does not apply to all flash patterns)	

Amp draw varies depending on color of LED used and the flash pattern selected.

PARTS – ULB42 SERIES	PART#
Cig Plug	920-10
Flasher Circuit	ULB399
Mounting Bracket Kit for Front/Rear	ULB-BKT
Baffle	30147-89P

ULB21 - Star Split-Phantom™ & ULB10 Half-Phantom™

ULB21 SPLIT-PHANTOM™

ULB10 HALF-PHANTOM™

The STAR Split-Phantom™ and STAR Half-Phantom™ interior mount LED lightbars are perfect for undercover or unmarked vehicle applications. With an extremely thin profile, less than 1" high, the ULB21 and ULB10 are specifically designed to mount in the front windshield visor area. The ULB21 straddles the overhead console while the ULB10 mounts on the passenger side. Mounting time for both is less than 15-20 minutes. No drilling required with specific visor brackets. The ULB21 with 216 long-life LEDs or the ULB10 with 108 long-life LEDs will give you the power and flexibility you need. They both offer 35 customer selectable flash patterns with the push of a button, angled LED sections for intersection clearing, and a 30 second Superburst™ all LED steady burn. Adjustable baffles are included to eliminate "flash back" from the window. The ULB21 and ULB10 ship complete with cig plug with lighted on/off switch, mounting brackets, hardware, and instructions.

Specifications:

Size:	**ULB21:**	15/16"H x 34"min. - 42"max.W x 6"D
	ULB10:	15/16"H x 16-3/4"W x 6"D
Weight:	**ULB21:**	2.8 lbs.
	ULB10:	2.5 lbs.
Voltage:	*12V DC*	
Amp Draw*:	**ULB21:**	2.4 Amps (average), 4.7 Amps (max)
	ULB10:	1.2 Amps (average), 2.4 Amps (max)
Color Combo:	Amber, Blue, Green, Red, White	
Approvals:	California Title 13, SAE J595 (available) (Does not apply to all flash patterns)	

Amp draw varies depending on color of LED used and the flash pattern selected.

PARTS – ULB21	PART#
Cig Plug	920-10
Baffle (ULB21 requires two per light)	30147-151P
Vehicle Specific Mounting Bracket Kits:	
Chevy Impala	274-ULB21-IM
Chevy Tahoe	274-ULB21-TA
Dodge Charger	274-ULB21-CH
Dodge Charger '11-'12	274-ULB21-CH11
Ford Crown Victoria	274-ULB21-CV
Ford Explorer	274-ULB21-EX
Universal Mount	274-ULB21-UI
Chevy Caprice	274-ULB21-CP
PARTS – ULB10	**PART#**
Cig Plug w/Lighted On/Off Switch	920-10SW
Baffle (ULB21 requires two per light)	30147-151P
Vehicle Specific Mounting Bracket Kits:	
Chevy Impala	274-ULB10-IM
Chevy Tahoe	274-ULB10-TA
Dodge Charger	274-ULB10-CH
Dodge Charger '11-'12	274-ULB21-CH11
Ford Crown Victoria	274-ULB10-CV
Ford Explorer	274-ULB10-EX
Universal Mount	274-ULB10-UI
Chevy Caprice	274-ULB10-CP

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STAR WARNING SYSTEMS
Hecho en U.S.A.

ULB44 - StarBurst Phantom® LED Lightbar

ULB44 StarBurst Phantom™
or
ULB44-DLP StarBurst Phantom w/Directional LED Pursuit Mode

The NEW High-Intensity StarBurst Phantom™ interior mount lightbar is perfect for undercover or unmarked vehicle applications. With an extremely thin profile, less than 1" high, the ULB44 series easily mounts under the center visor clips above the rear view mirror in 15-20 minutes. The ULB44 and ULB44-DLP utilize 30 long-life, STAR Generation-4 LEDs. Both models offer a red "night vision" preserving map light, two angled LED sections for intersection clearing, an adjustable baffle to eliminate "flash back" from the window. The StarBurst Phantom™ series lightbars offer 35 customer selectable flash patterns via a push button switch and a 30 second Superburst™ all LED steady burn. The ULB44-DLP also offers a Directional LED Pursuit mode. A rear window mount version is available with a standard 12' wire harness only for the ULB44 (ULB44-1). Ships complete with mounting brackets, hardware, and instructions.

Specifications:

Size:	**15/16"H x 42"W x 4-3/4"D**
Weight:	**3 lbs.**
Voltage:	**12V DC**
Amp Draw*:	**3.1 amps (average), 6.25 amps (max)**
Color Combo:	**Amber, Blue, Green, Red, White**
Approvals:	**California Title 13, SAE J595 (available) (Does not apply to all flash patterns)**

**Amp draw varies depending on color of LED used and the flash pattern selected.*

PARTS – ULB44 SERIES	PART#
Cig Plug	920-10
Mounting Bracket Kit for Front/Rear	274-ULB42BKT
Baffle	30147-89P

ULB24 - StarBurst Half-Phantom™ & ULB14 StarBurst Split-Phantom™

ULB24 StarBurst Split-Phantom™
or
ULB24-DLP StarBurst Split-Phantom w/Directional LED Pursuit Mode

ULB14

The NEW High-Intensity StarBurst Split-Phantom™ and StarBurst Half-Phantom™ interior mount LED lightbars are perfect for undercover or unmarked vehicle applications. With an extremely thin profile, less than 1" high, the ULB24 and ULB14 are specifically designed to mount in the front windshield visor area. The ULB24 straddles the overhead console while the ULB14 mounts on the passenger side. Mounting time for both is less than 15-20 minutes. No drilling required with specific visor brackets. The ULB24 with 24 long-life, STAR Generation-4 LEDs or the ULB14 with 12 long-life, STAR Generation-4 LEDs will give you the power and flexibility you need. They both offer angled LED sections for intersection clearing, an adjustable baffle to eliminate "flash back" from the window. Both series lightbars offer 35 customer selectable flash patterns via a push button switch and a 30 second Superburst™ all LED steady burn. The ULB24-DLP also offers a Directional LED Pursuit mode. Ships complete with, mounting brackets, hardware, and instructions.

Specifications:

Size:	**ULB24:**	**15/16"H x 34" min. – 42"max"W x 6"D**
	ULB14:	**15/16"H x 16-3/4"W x 6"D**
Weight:	**ULB24:**	**2.8 lbs.**
	ULB14:	**1.5 lbs.**
Voltage:	**12V DC**	
Amp Draw*:	**ULB24:**	**2.5 amps (average), 5.0 amps (max)**
	ULB14:	**1.3 amps (average), 2.5 amps (max)**
Color Combo:	**Amber, Blue, Green, Red, White**	
Approvals:	**California Title 13, SAE J595 (available) (Does not apply to all flash patterns)**	

**Amp draw varies depending on color of LED used and the flash pattern selected.*

PARTS – ULB21	PART#
Cig Plug	920-10
Baffle (ULB21 requires two per light)	30147-151P
Vehicle Specific Mounting Bracket Kits:	
Chevy Impala	274-ULB21-IM
Chevy Tahoe	274-ULB21-TA
Dodge Charger	274-ULB21-CH
Dodge Charger '11-'12	274-ULB21-CH11
Ford Crown Victoria	274-ULB21-CV
Ford Explorer	274-ULB21-EX
Universal Mount	274-ULB21-UI
Chevy Caprice	274-ULB21-CP

PARTS – ULB10	PART#
Cig Plug w/Lighted On/Off Switch	920-10SW
Baffle (ULB21 requires two per light)	30147-151P
Vehicle Specific Mounting Bracket Kits:	
Chevy Impala	274-ULB10-IM
Chevy Tahoe	274-ULB10-TA
Dodge Charger	274-ULB10-CH
Dodge Charger '11-'12	274-ULB21-CH11
Ford Crown Victoria	274-ULB10-CV
Ford Explorer	274-ULB10-EX
Universal Mount	274-ULB10-UI
Chevy Caprice	274-ULB10-CP
Universal Mount	274-ULB10-UI

StarVisor II™ - VL22 Series - LED Visor Light

VL22

The STARVISOR II™ series high-intensity LED lights give you plenty of possibilities to customize to your individual needs. The STARVISOR II™ VL22 series offers 30 different customer selectable flash patterns along with Auto-Tilt™ Automatic Activation. It automatically switches on when visor is pulled down and automatically switches off when visor is lifted up (Auto-Tilt™ feature can be disabled). High impact resistant polycarbonate plastic housing, vibration resistant LED technology, and micro-controlled solid state flasher allows for long life. Power indication LED allows you to see ready status. Auto-voltage adjust compensates for varying vehicle voltage (10V - 16V DC). Designed to be visor mount only. Ships complete with cig plug, hook and loop fasteners, and instructions.

Specifications:

Size:	4”H x 11-1/2”W x 7/8”D
Weight:	Less than 1 lb.
Voltage:	10V - 16V DC
Amp Draw*:	1.5 Amps
Colors Available:	Red/Blue, Blue/Blue, Red/Red, Amber/Red Amber/Blue, Amber/Amber, Red/White, Amber/White, Amber/Green, White/White

*Amp draw will vary depending on the color of the LED heads used and the flash pattern selected.

PARTS	Part #
Cig Plug	176
Clear Lens	30129-10C
Hook & Loop Strap	30209-1
Back Plate	30019-59
Back Plate Screw	30052-32
Switch Button Nut	30007-81-1
Front Housing/Frame	30214-2

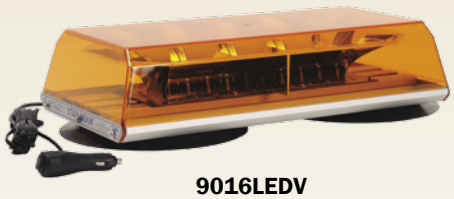
NEW

S-LINK SYSTEM™

STAR LED MINI-BAR™

NEW M-Tech Plus™ LED Technology

9016LED Series StarBeam™ M-Tech Plus® LED



9016LEDV

9016LED

The 9016LED Series are low profile Mini-Bars designed with NEW M-Tech Plus® LED technology that provides a superior 360° warning light image. Conformal coated circuitry protects against shock and vibration while the durable polycarbonate domes are fully gasketed between the rugged one piece, extruded, anodized base to protect against moisture. Ships complete with permanent mounting hardware, and instructions. Magnetic mounts include vinyl pads to avoid scratching surfaces.

Models:

9016LED: Permanent mount

20 Customer selectable flash patterns via external pattern select wire or internal jumper, S-LINK SYSTEM™ is standard offering synchronizing capability with other STAR LED units, 24” wire leads

9016LEDM: Standard Magnetic mount

9016LEDV : Vacuum Magnetic mount

20 Customer selectable flash patterns via internal jumper

12’ cigarette plug adapter with lighted on/off switch

Specifications:

Dimensions:	3-3/4”H x 16”L x 8-3/8”D
Voltage:	12V - 24V DC
Amp Draw:	Amber or Red: 2 Amps (max) Blue, White, Green or Blue/White: 3.6 Amps (max) Amber/White, or Amber/Green:, Red/Blue: 2.8 Amps (max)
LED Color Combo:	Amber, Amber/White, Amber/Green, Red, Red/Blue, Blue, Blue/White, Green, White (Blue, Green, or White LEDs available only with Clear Dome)
Dome Colors:	Amber, Clear, Red
Approvals:	SAE Class I (Amber, Blue, Red) SAE Class II (Clear, Green) (Does not apply to all flash patterns)

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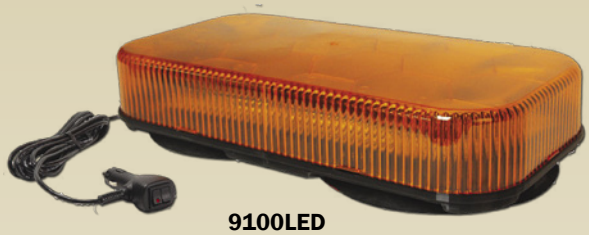
STAR WARNING SYSTEMS
THE U.S.

NEW

STAR MINI-BAR®

9100LED Contour™



9100LED

Our new Star Contour™ is made to "contour-fit" to the roof of your vehicle. The injection-molded polycarbonate base combines with a rubber-coated vacuum magnet to "custom" mount on to your vehicle. The result is a perfect fit with no scratches to your paint.

Specifications:

- Extremely low profile!
- Full 360° LED light output
- Super bright M-Tech® LED technology provides superior warning light image
- Durable polycarbonate, injection molded domes are fully gasketed to protect against moisture
- Conformal coated circuitry protects against shock and vibration
- Permanent Mount:
  - 20 Customer selectable flash patterns via external pattern select wire
  - S-Link System™ synchronizing capability with other Star LED units
  - 24" wire leads
- Vacuum Magnetic Mount:
  - 20 Customer selectable flash patterns
  - 12' cigarette plug adapter with lighted on/off and pattern select switches
- Dome Colors: Amber, Clear, Red, Blue and Green
- Amp Draw: 2.3 (max)
- Dimensions: 3" H x 16-1/2" L x 8-3/8" D
- Voltage: 12V – 24V DC
- Approvals: SAE J845 Class I (Amber, White and Blue)

Models:

- 9100LED: Contour™ M-Tech® LED Mini-Bar, permanent mount
- 9100LEDM: Contour™ M-Tech® LED Mini-Bar, magnetic mount
- 9100LEDV: Contour™ M-Tech® LED Mini-Bar, vacuum magnetic mount

Exceeds Latest J845 & CA13 Standards

9200H8L & 9200HL Series Star Halo® LED

9200HL Series

9200HLM Series

Cig Plug includes Pattern Select and On/ Off Switches

9200HLV Series

STAR Halo® LED technology is a patent pending, extremely low current draw, ultra high intensity LED light that exceeds the latest J845 and CA13 standards. The circuitry is designed with 12 customer selectable flash patterns, high/low intensity feature (Manual or Automatic), and S-Link System™ that allows syncronizing capabilities with other STAR LED products. Circuitry is fully encapsulated for increased weather and shock resistance. Fully gasketed between the durable polycarbonate dome and base. Two internal V-mirrors enhace flashes. Magnetic mounts include vinyl pads to avoid scratching surfaces.

Models:

9200H8L:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LEDs Optics
9200H8LM:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LEDs Optics
9200H8LV:	SAE Class I, California Title 13, Ultra High Intensity STAR Halo® LEDs Optics
9200HL:	SAE Class I, High Intensity STAR Halo® LEDs Optics
9200HLM:	SAE Class I, High Intensity STAR Halo® LEDs Optics
9200HLV:	SAE Class I, High Intensity STAR Halo® LEDs Optics

Specifications:

Dimensions: 4-1/2" H x 16-1/8" W x 7-1/4" D (less magnets)

Voltage: Permanent mount: 12V – 24V DC, Magnetic mount: 12V DC only

Amp Draw: 1.2 Amps @ 12V DC, 0.6 Amps @ 24V DC

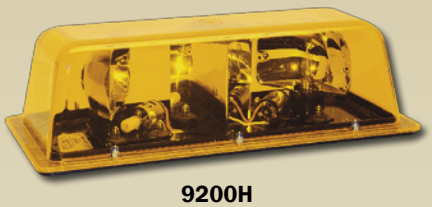
Dome Colors: Amber, Blue, Clear, Green, Red, Magenta

Approvals: SAE Class I, California Title 13 (Amber)
(Does not apply to all flash patterns)

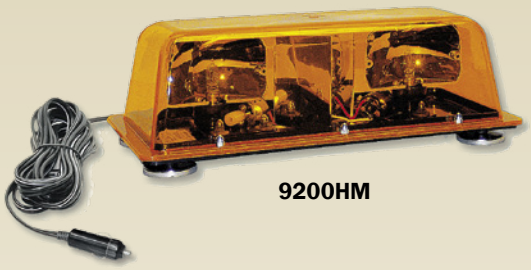
Permanent mount
12 Customer selectable flash patterns via external pattern select wire, S-LINK SYSTEM™ synchronizing capability with other STAR LED units, 24" wire leads

Standard Magnetic mount
12 Customer selectable flash patterns, Cigarette plug with On/Off Switch and Pattern Select Switch

Vacuum Magnetic mount
12 Customer selectable flash patterns, Cigarette plug with On/Off Switch and Pattern Select Switch



9200H



9200HM

9200SV

STAR MINI-BARS®

The Mini-Bar® Series offers a compact, all-in-one package with the reliability and attention getting power you need. Patented shock mounted rotators with two sealed roller bearings provide quiet, smooth, and maintenance free operation, and are available in standard speed (80fpm) or high speed (160fpm). Dual rotators are enhanced with a single wall mirror. While the dual high intensity strobes are enhanced with twin internal V-mirrors. The circuit and strobe tube assemblies are fully encapsulated to guard against shock and vibration and are also easily field replaceable. Durable polycarbonate domes resist UV deterioration and are fully gasketed to protect against elements. The polycarbonate plastic bases make these Star Mini-Bars® lightweight and will not corrode. The Mini-Bars® are offered in both permanent and magnetic mount. Super powerful, rubber coated, 8" vacuum magnets are also available. Ship complete with mounting hardware and instructions. Magnetic mount versions ship with attached cig plug and vinyl pads for magnets to avoid scratching.

Models:

9200H:	Star Mini-Bar® with two rotators, one wall mirror, two 50 watt halogen bulbs
9200HM:	Star Mini-Bar® with two rotators, one wall mirror, two 50 watt halogen bulbs, magnetic mount and cig plug
9200HV:	Star Mini-Bar® with two rotators, one wall mirror, two 50 watt halogen bulbs, vacuum magnet mount and cig plug
9200I:	Star Mini-Bar® with two rotators, one wall mirror, two 35 watt incandescent bulbs
9200IM:	Star Mini-Bar® with two rotators, one wall mirror, two 35 watt incandescent bulbs, magnetic mount and cig plug
9200IV:	Star Mini-Bar® with two rotators, one wall mirror, two 35 watt incandescent bulbs, vacuum magnet mount and cig plug
9200S:	Double/Quad Flash Mini-Bar® with two 360° remote strobe heads, one double v-mirror, one 2-head strobe pack
9200SM:	Double/Quad Flash Mini-Bar® with two 360° remote strobe heads, one double v-mirror, one 2-head strobe pack, magnet mount and cig plug with on/off switch
9200SV:	Double/Quad Flash Mini-Bar® with two 360° remote strobe heads, one double v-mirror, one 2-head strobe pack, vacuum magnet mount and cig plug with on/off switch

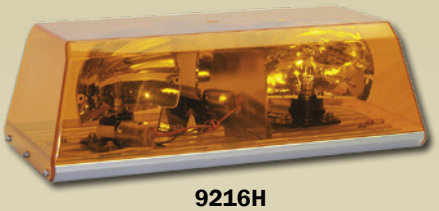
Specifications:

Size:	4-1/2"H x 16-1/8"W x 7-1/4"D	
Weight:	Less than 5 lbs.	
Voltage:	Halogen: Incandescent: Strobe	12V DC (24V DC available) 12V DC 12V 24V DC
Amp Draw:	Halogen: Incandescent: Strobe	8 Amps @ 12V DC 5.6 Amps @ 12V DC 2 Amps @ 12V DC
Flash Rate:	Standard: High Speed:	80fpm (+/-10) per rotator 160fpm (+/-10) per rotator
Color:	Outer Dome & Filters:	Amber, Blue, Clear, Green, Red, Magenta
Approvals:	Halogen:	SAE J845, Class 1 (Amber, Blue, Clear, Red)
	Double Flash:	SAE J1318, Class II Amber

Parts- Mini-Bar®	PART#
Outer Dome	920-3
Color Filter for Rotator	920-100
Inner Fresnel lens	333
Bulb	
Halogen	2073-795
Incandescent	2073-1195
Strobe tube	ST3901-7
Standard Rotator Assembly with Motor	920-0
High Speed Rotator Assembly with Motor	920-0F
Rotator Motor	920-5
Wall Mirror	920-30-3
Cig Plug	920-10
Cig Plug w/lighted on/off Switch	920-10SW
Double/Quad Flash Power Supply	620-181-SBP
Magnet * (one)	920-16
Mag Mount Kit* (four)	920-16-4K
Vacuum Magnet (one)	920-16V

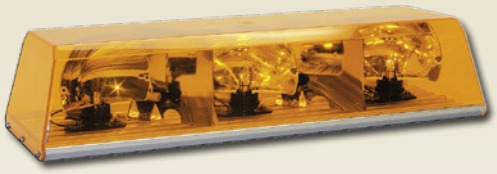
Available with magnetic mount models only.

ENTORNO INDUSTRIAL, S.A. DE C.V.
Juan Sarabia No. 205. Col. Nueva Santa María. 02800 México, D.F.
Tels.: (55) 5356-7206 • Fax: (55) 5356-7209
e-mail: ventas@entorno-industrial.com • direccion@entorno-industrial.com www.entorno-industrial.com



9216H

9216S



9224H

9224S

STROBE & HALOGEN

The STARBEAM™ 9216 & 9224 Series Star Mini-Bars® offer a heavy duty, all-in-one package with the reliability and attention getting power you need. Choose from high intensity strobes or patented shock mounted rotators with two sealed roller bearings providing quiet, smooth, and maintenance-free operation. The circuits and strobe tube assemblies in the strobe models are fully encapsulated to guard against shock and vibration, while the rotator models offer lock-and-stay bulbs that are field replaceable. Wall mirrors are standard for both models. Durable polycarbonate domes resist UV deterioration and are fully gasketed to protect against the elements. The rugged aluminum extruded base will not bend or warp. The STARBEAM™ 9216 & 9224 Series are available in permanent, T-Slot mounting. The STARBEAM™ 9216 is also available in magnetic mount with cig plug adapter. Ships complete with 15' lead, mounting hardware and instructions. Magnetic mount versions ship with attached cig plug with lighted On/Off switch and vinyl pads for magnets to avoid scratching.

Models:

9216H:	16" Star Mini-Bar® with two rotators, one wall mirror, two 58 watt halogen bulbs
9216HM:	16" Star Mini-Bar® with two rotators, one wall mirror, two 58 watt halogen bulbs, magnetic mount with cig plug adapter
9216S:	16" Star Mini-Bar® with two 360° Quad Flash strobes, one wall mirror
9216SM:	16" Star Mini-Bar® with two 360° Quad Flash strobes, one wall mirror, magnetic mount with cig plug adapter
9224H:	24" Star Mini-Bar® with three rotators, two wall mirrors, three 58 watt halogen bulbs
9224S:	24" Star Mini-Bar® with three 360° Quad Flash strobes, two wall mirrors

Specifications:

Size:	**9216:** **9224:**	5-1/2"H x 16"W x 8-1/2"D 5-1/2"H x 24"W x 8-1/2"D
Weight:	**9216:** **9224:**	8 lbs. 10 lbs.
Voltage:	**Halogen:** **Strobe:**	12V DC 12V - 24V DC
Amp Draw:	**Halogen:** **Strobe:**	4.75 Amps per rotator 2 Amps per strobe head
Joules:	**Strobe:**	17.3 joules per strobe head
Flash Rate:	**Strobe:** **Rotator:**	75 Quad Flash sequences per minute, per self-contained strobe @ 24 Watts 120fpm (+/-10) per rotator
Color:	**Outer Dome & Inner Lens:**	Amber, Blue, Clear, Red
Approvals:	**9216H:**	SAE J845, Class 1 (Amber, Clear)
Approvals:	**9216H:**	SAE J845, Class 1 - Amber, Clear California Title 13 - Amber

PARTS – 9216 & 9224	Part#
Flash Tube	129
Quadflash Circuit	181-Q4-12
58 Watt Halogen Bulb	2073-795X58
4" Quadflash Strobe	240SFQ1
4" Fresnel Lens	297-
Wall Mirror	920-30-2
Outer Dome (9216 Series)	920-316
Outer Dome (9224 Series)	920-324
Rotator Assembly (Less Bulb) (120fpm)	920-99-2
Motor (120fpm)	920-18F
Mounting Pad Gasket 16"	920-17-16
Mounting Pad Gasket 24"	920-17-24
Mag Mount Kit (9216HM, 9216SM)	910-177K
Cig Plug (9216HM, 9216SM)	920-10SW

NEW STARLASER® STAR LASER® LIGHTBAR

7000 Series Modular Lightbar

7400 Series 46" Star Laser® Lightbar

7200 Series 22" Star Laser® Lightbar

Innovative Sculptured Design

The STAR LASER® is the newest generation of low-profile lightbars. A blend of innovative modular design, sculptured contours, exceptional strength and durability. Laser Cage Technology™ is the most advanced, integrated componentry design. STAR LASER® LCT provides the ability for each modular head to be interchangeable with other modular heads for multiple custom configurations. "ISO-VIBE" modular head design provides circuitry protection and is equipped with plug-n-play electronic connections for smooth adaptation to your needs. Rugged exterior, extruded aluminum bases and UV stabilized polycarbonate lenses provide a lean, more assertive stance to any vehicle form. STAR LASER® provides fail safe operation by utilizing independent driver circuits for each head that allows for synchronization of heads in simultaneous or alternating mode and flash pattern control.

Additional Options & Specifications:

- LED module colors: Amber, Blue, Green, Red, White
- End position can also be color warning light
- Standard mounting kit included
- Vehicle specific mounting straps available
- Front lenses standard clear, Also available in Amber, Blue, Red
- End caps standard clear, Also available in Amber, Blue, Red with optional clear alley light window

Exterior Construction

- Rugged top and bottom aluminum extrusions
- Optical grade UV stabilized virgin polycarbonate lenses
- Weatherproof seals and stainless steel fasteners
- Streamlined design

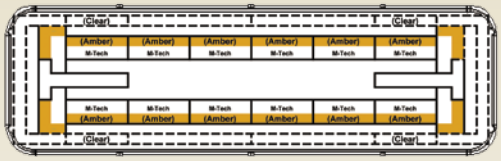
Serviceability

- Top extrusion removes completely for access to modular components
- Front lenses stay securely in place

AVAILABLE IN FIVE LENGTHS

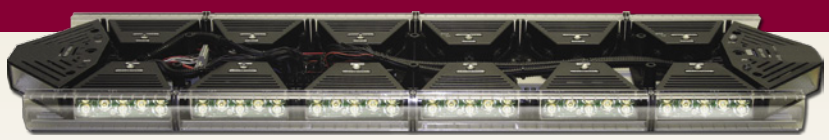
7200 Series	22 in.
7300 Series	34 in.
7400 Series	46 in.
7500 Series	52 in.
7600 Series	58 in.

All only 2-5/8 in. tall
12-1/4 in. wide for maximum visibility



For your Custom Star Laser® Lightbar Design Configurator, please contact STAR at 585-226-9500 or www.starheadlight.com

Laser Modules



High Density™ LED head

- 12 or 18 version available
- Gen 4 LEDs
- Full programmability
- High LED count for bid spec. Requirements
- High efficiency linear optics
- Wide angle light distribution
- Achieves SAE Class I rating without use of flashing alley light

STAR BURST™

- (8) Gen 4 LEDs
- Patent Pending optical system
- Narrow light distribution
- Compatible with end or front facing heads
- SAE Class I
- Traffic director stop/turns available
- Can be programmed for TDP

M-tech®

- (6) Gen 4 LEDs
- M-tech optical system
- Wide angle light distribution
- Compatible with end or front facing heads
- SAE Class I
- Full programmability

Discrete™

- Gen 1 LEDs
- Large image
- Primarily used for traffic directors
- Multible color traffic directors

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www.entorno-industrial.com

STAR WARNING SYSTEMS
THE U.S.

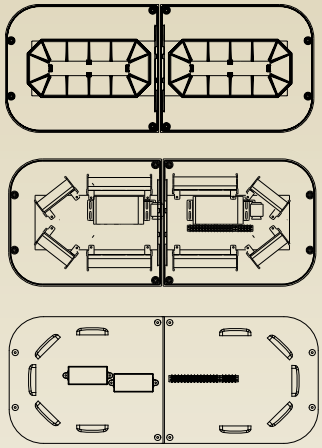
NEW M-Tech Plus™ LED Technology

STAR RAZOR® LIGHTBARS - 36" EMERGENCY PACKAGES

Only 2-3/4" Tall!

2364LED

Lenses and filters are available in red, blue, amber, green, and clear. A BLACK plastic, low profile, direct roof mount kit is standard and included (820-39-PB). A traffic director control unit is included with lightbars containing a traffic director assembly.



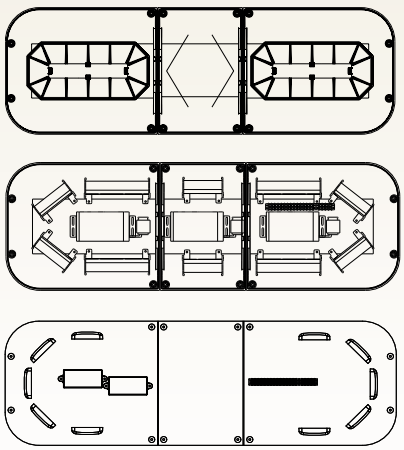
Standard Models:

#2364LED	M-Tech Plus® LED lightbar with 64 LEDs
#2300SL	Four 7" linear strobe heads, four 4.5" linear strobe heads, two 4-head strobe packs
#2378-**	Ten Versa Star® DLX6 LEDs

NEW M-Tech Plus™ LED Technology

STAR RAZOR® LIGHTBARS - 46" EMERGENCY PACKAGES

2464LED



Standard Models:

#2464LED	M-Tech Plus® LED lightbar with 64 LEDs, two V-mirrors
#2400SL	Four 7" linear strobe heads, six 4.5" linear strobe heads, two 4-head strobe packs, and one 2-head strobe pack
#2478-**	Ten Versa Star® DLX6 LEDs

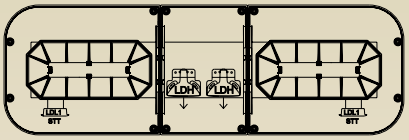
To view all STAR RAZOR® LIGHTBARS or request a custom lightbar design kit, please contact us at www.starheadlight.com
SAE Class 1 & California Title 13 approved when properly configured

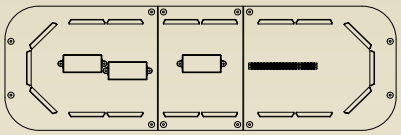
STAR RAZOR® LIGHTBARS - 46" EMERGENCY PACKAGES

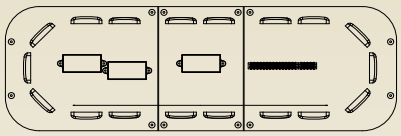
NEW M-Tech Plus™ LED Technology

2464LED-T0W

Lenses and filters are available in red, blue, amber, green, and clear. A BLACK plastic, low profile, direct roof mount kit is standard and included (820-39-PB). A traffic director control unit is included with lightbars containing a traffic director assembly.







Standard Models:

#2464LED-T0W M-Tech Plus® LED lightbar with 64 LEDs, two rear halogen worklights, two LED stop/tail/turn lights

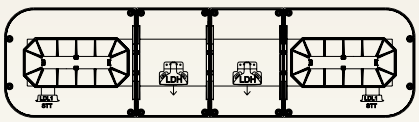
#2486-** Fourteen Batwing Versa Star® DLX6 LEDs, two takedown/pursuit LED lights, two LED alley lights

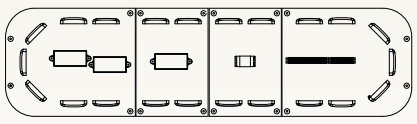
#2472-** Eight Versa Star® DLX6 LEDs, two takedown/pursuit LED lights, two LED alley lights, six head traffic director

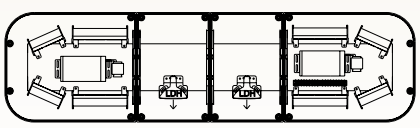
STAR RAZOR® LIGHTBARS - 56" EMERGENCY PACKAGES

NEW M-Tech Plus™ LED Technology

2564LED-T0W







Standard Models:

#2564LED-T0W M-Tech Plus® LED lightbar with 64 LEDs, two rear halogen worklights, two LED stop/tail/turn lights

#2576LED-T0W Sixteen Versa Star® DLX6 LEDs, four LED worklights to the rear, two red LED STT lights

#2510SL Four 7" linear strobe heads, four 4.5" linear strobe heads, two 4-head strobe packs, two rear work lights

To view all STAR RAZOR® LIGHTBARS or request a custom lightbar design kit, please contact us at www.starheadlight.com
SAE Class 1 & California Title 13 approved when properly configured

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e-mail: ventas@entorno-industrial.com • direccion@entorno-industrial.com www.entorno-industrial.com

STAR WARNING SYSTEMS THE U.S.

NEW STAR SABRE® LIGHTBARS

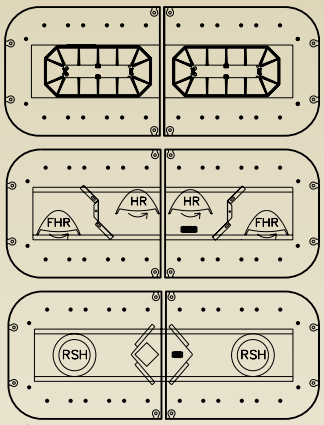
STAR SABRE® LIGHTBARS - 36" EMERGENCY PACKAGES

NEW M-Tech Plus™ LED Technology

5364LED

The only dual level, full output lightbar less than 4" tall!

Lenses and filters are available in red, blue, amber, green, and clear. A BLACK plastic, low profile, direct roof mount kit is standard and included (820-39-PB). A traffic director control unit is included with lightbars containing a traffic director assembly.



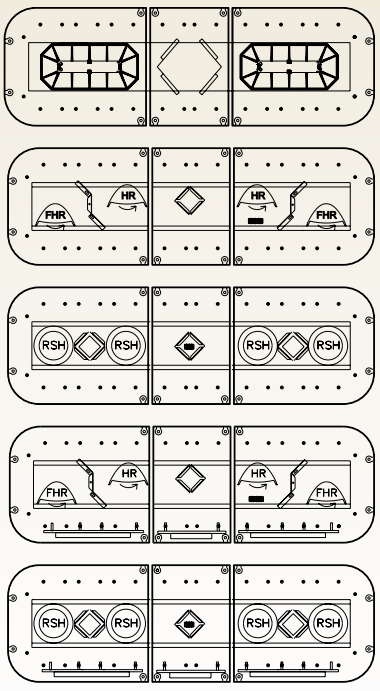
Standard Models:

#5364LED	M-Tech Plus® LED lightbar with 64 LEDs
#5300H	Two halogen rotators, two fast halogen rotators, two Z-mirrors
#5300S	Two 360° remote strobe heads, one 2-head strobe pack, two large V-mirrors

STAR SABRE® LIGHTBARS - 46" EMERGENCY PACKAGES

NEW M-Tech Plus™ LED Technology

5464LED



Standard Models:

#5464LED	M-Tech Plus® LED lightbar with 64 LEDs, two v-mirrors
#5400H	Two halogen rotators, two fast halogen rotators, two medium V-mirrors, two Z-mirrors
#5400S	Four 360° remote strobe heads, three double V-mirrors, two 2-head strobe packs
#5401H	Two halogen rotators, two fast halogen rotators, two medium V-mirrors, two Z-mirrors, lower LED directional arrow assembly
#5401S	Four 360° remote strobe heads, three double V-mirrors, two 2-head strobe packs, lower LED directional arrow assembly

To view all STAR SABRE® LIGHTBARS or request a custom lightbar design kit, please contact us at www.starheadlight.com
SAE Class 1 & California Title 13 approved when properly configured

NEW M-Tech Plus™ LED Technology

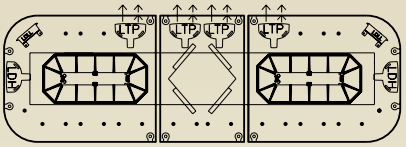
NEW STAR SABRE® LIGHTBARS

STAR SUPER SABRE™ LIGHTBARS - 46" LED PACKAGES

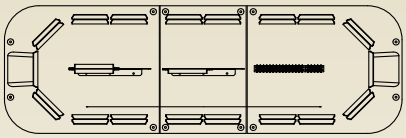
5462LED

Lenses and filters are available in red, blue, amber, green, and clear. A BLACK plastic, low profile, direct roof mount kit is standard and included (820-39-PB). A traffic director control unit is included with lightbars containing a traffic director assembly.

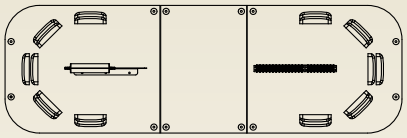
Standard Models:



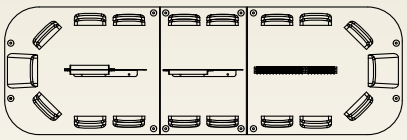
#5462LED M-Tech Plus® LED lightbar with 64 LEDs, Four takedown/ pursuit lights, two LED intersection clearing lights, two alley lights, two v-mirrors



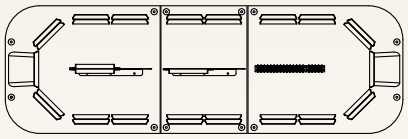
#5483-** Twenty Four Batwing Versa Star® DLX6 LEDs, four takedown/ pursuit LED lights, two LED alley lights, six head batwing traffic director



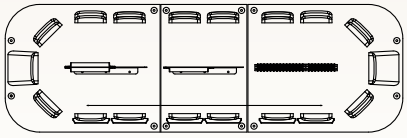
#5478-** Twenty Versa Star® DLX6 LEDs



#5476-** Thirty Versa Star® DLX6 LEDs, four takedown/pursuit LED lights, two LED alley lights



#5486-** Thirty Batwing Versa Star® DLX6 LEDs, four takedown/pursuit LED lights, two LED alley lights



#5473-** Twenty Four Versa Star® DLX6 LEDs, four takedown/pursuit LED lights, two LED alley lights

To view all STAR SABRE® LIGHTBARS or request a custom lightbar design kit, please contact us at www.starheadlight.com
SAE Class 1 & California Title 13 approved when properly configured

ENTORNO INDUSTRIAL, S.A. DE C.V.
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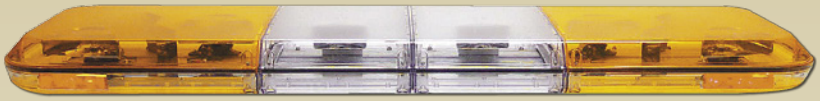
e-mail: ventas@entorno-industrial.com • direccion@entorno-industrial.com www.entorno-industrial.com
STAR WARNING SYSTEMS
THE U.S.

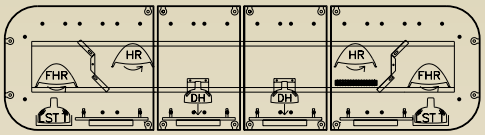
STAR SABRE® LIGHTBARS - 56" TOW PACKAGES



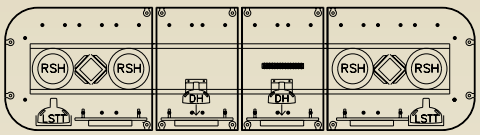
5511H

Lenses and filters are available in red, blue, amber, green, and clear. A BLACK plastic, low profile, direct roof mount kit is standard and included (820-39-PB). A traffic director control unit is included with lightbars containing a traffic director assembly.

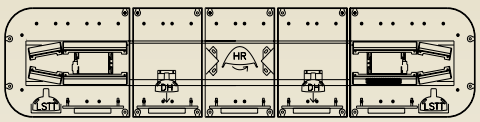
Standard Models:



#5511H Two halogen rotators, two fast halogen rotators, two Z-mirrors, two rear directional halogen flood lights, two lower stop/turn/tail lights, lower LED directional arrow assembly



#5511S Four 360° remote strobe heads, two double V-mirrors, two rear directional halogen flood lights, two 2-head strobe packs, two lower stop/turn/tail lights, lower LED directional arrow assembly

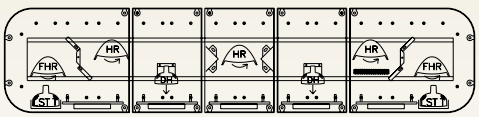


#5511SL Four 4.5" linear strobe heads, four 7" linear strobe heads, two 4-head strobe packs, two rear directional halogen flood lights, two lower stop/turn/tail lights, lower LED directional arrow assembly

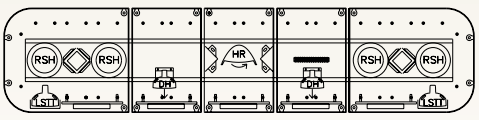
STAR SABRE® LIGHTBARS - 66" WARNING PACKAGES

5611H

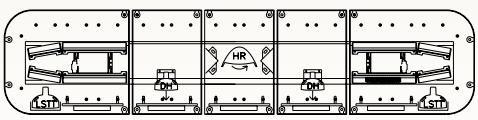
Standard Models:



#5611H Three halogen rotators, two fast halogen rotators, two Z-mirrors, two small V-mirrors, two rear directional halogen flood lights, two lower stop/turn/tail lights, lower LED directional arrow assembly



#5611S Four 360° remote strobe heads, one halogen rotator, two double V-mirrors, two small V-mirrors, two rear directional halogen flood lights, two 2-head strobe packs, two lower stop/turn/tail lights, lower LED directional arrow assembly



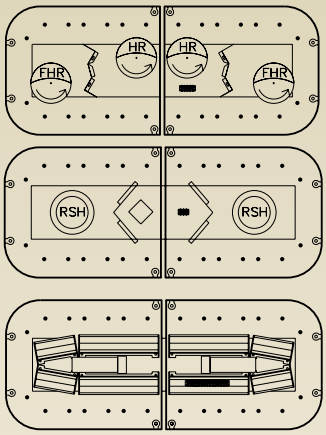
#5611SL Four 4.5" linear strobe heads, four 7" linear strobe heads, one halogen rotator, two small V-mirrors, two directional halogen flood lights, two 4-head strobe packs, two lower stop/turn/tail lights, lower LED directional arrow assembly

To view all STAR SABRE® LIGHTBARS or request a custom lightbar design kit, please contact us at www.starheadlight.com
SAE Class 1 & California Title 13 approved when properly configured

STAR INTERCEPTOR® LIGHTBARS - 36" EMERGENCY PACKAGES

8300H

Lenses and filters are available in red, blue, amber, green, and clear. A BLACK plastic, low profile, direct roof mount kit is standard and included (820-39-PB). A traffic director control unit is included with lightbars containing a traffic director assembly.



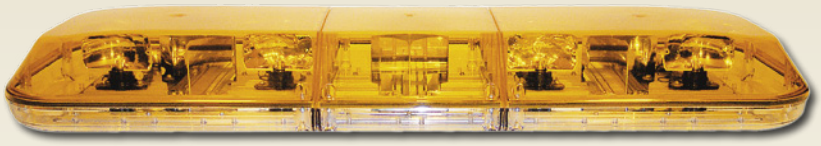
Standard Models:

#8300H Two halogen rotators, two fast halogen rotators, two lightning mirrors

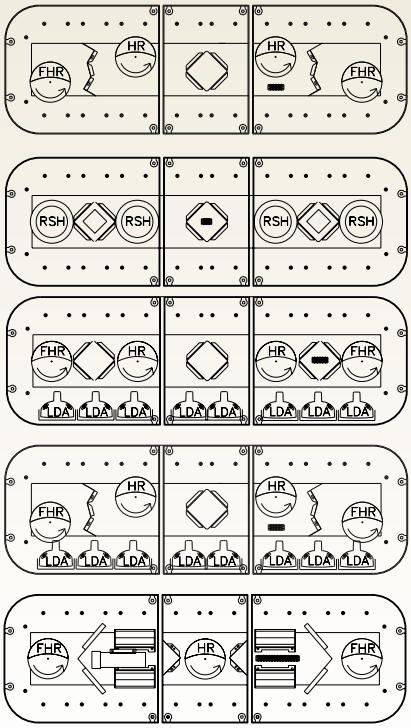
#8300S Two 360° remote strobe heads, one 2-head strobe pack, two V-mirrors

#8300SL Four 4.5" linear strobe heads, four 7" linear strobe heads, two 4-head strobe packs

STAR INTERCEPTOR® LIGHTBARS - 46" EMERGENCY PACKAGES



8400H



Standard Models:

#8400H Two halogen rotators, two fast halogen rotators, one double V-mirror, two lightning mirrors

#8400S Four 360° remote strobe heads, three double V-mirrors, two 2-head strobe packs

#8401H Two halogen rotators, two fast halogen rotators, one double V-mirror, two lightning mirrors, lower directional arrow assembly w/colored lenses

#8401S Four 360° remote strobe heads, three double V-mirrors, two 2-head strobe packs, lower directional arrow assembly w/colored lenses

#8402HSL One halogen rotator, two fast halogen rotators, two large V-mirrors, two small V-mirrors, four 4.5" linear strobe heads, one 4-head strobe pack

To view all STAR INTERCEPTOR® LIGHTBARS or request a custom lightbar design kit, please contact us at www.starheadlight.com
SAE Class 1 & California Title 13 approved when properly configured

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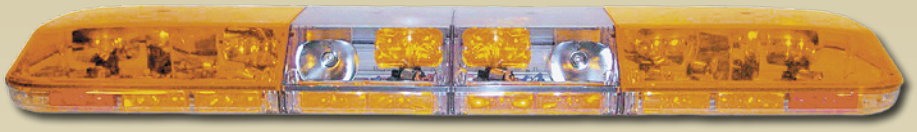
e-mail: ventas@entorno-industrial.com • direccion@entorno-industrial.com www.entorno-industrial.com

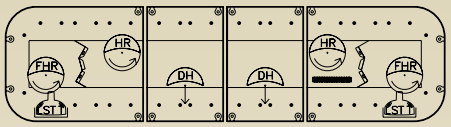
STAR INTERCEPTOR® LIGHTBARS - 56" TOW PACKAGES



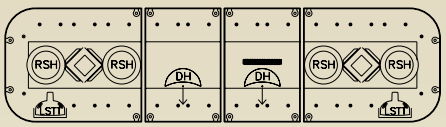
8521H

Lenses and filters are available in red, blue, amber, green, and clear. A BLACK plastic, low profile, direct roof mount kit is standard and included (820-39-PB). A traffic director control unit is included with lightbars containing a traffic director assembly.

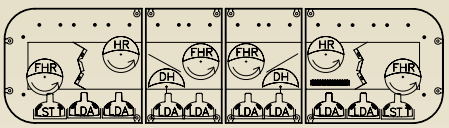
Standard Models:



#8510H Two halogen rotators, two fast halogen rotators, two lightning mirrors, two rear directional halogen flood lights, two lower stop/turn/tail lights



#8510S Four 360° remote strobe heads, two double V-mirrors, two rear directional halogen flood lights, two 2-head strobe packs, two lower stop/turn/tail lights

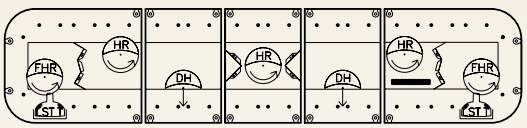


#8521H Four fast halogen rotators, two halogen rotators, two lightning mirrors, two wall mirrors, two rear directional halogen flood lights, two lower stop/turn/tail lights, lower directional arrow assembly w/colored lenses

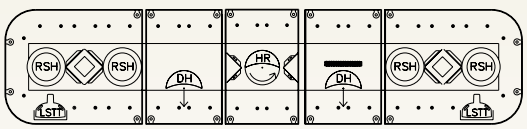
STAR INTERCEPTOR® LIGHTBARS - 66" TOW PACKAGES

8610H

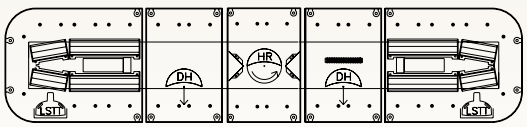
Standard Models:



#8610H Three halogen rotators, two fast halogen rotators, two lightning mirrors, two medium V-mirrors, two lower stop/turn/tail lights, two rear directional halogen flood lights



#8610S Four 360° remote strobe heads, one halogen rotator, two double V-mirrors, two medium V-mirrors, two rear directional halogen flood lights, two 2-head strobe packs, two lower stop/turn/tail lights



#8610SL Four 4.5" linear strobe heads, four 7" linear strobe heads, one halogen rotator, two medium V-mirrors, two rear directional halogen flood lights, two 4-head strobe packs, two lower stop/turn/tail lights

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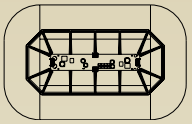
SAE Class 1 & California Title 13 approved when properly configured

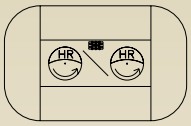
NEW AEROSTAR® LIGHTBARS

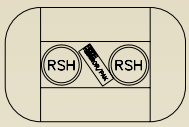
AEROSTAR® LIGHTBARS - 20" WARNING PACKAGES

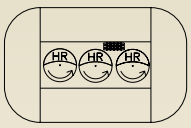
NEW M-Tech Plus™ LED Technology

6020H







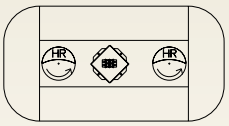


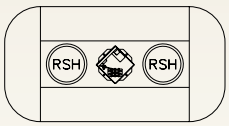
Standard Models:

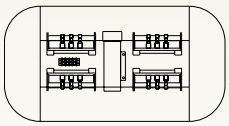
#6032LED	M-Tech Plus® LED lightbar with 32 LEDs, 12" dome section* Available magnetic mount: 6032LEDM (includes cig plug with On/Off switch and pattern select switch)
#6020H	Two halogen rotators, one wall mirror, one 12" dome section*. Available magnetic mount: 6020HM (includes cig plug with lighted On/Off switch)
#6020S	Two 360° remote strobe heads, one wall mirror/strobe pack, one 12" dome section*. Available magnetic mount: 6020SM (includes cig plug with lighted On/Off switch)
#6021H	Three halogen rotators, one 12" dome section*

AEROSTAR® LIGHTBARS - 24" WARNING PACKAGES

6222H







Standard Models:

#6222H	Two halogen rotators, one double V-mirror, one 16" dome section*
#6222S	Two 360° remote strobe heads, one double V-mirror, one 2-head strobe pack, one 16" dome section*
#6224SL	Four 4.5" linear strobe heads, one 4-head strobe pack, one 16" dome section*

**Inserts are only available on 16" dome sections (up to two inserts front and two to the rear)*

Lenses, filters, and inserts are available in red, blue, amber, green, and clear. An aluminum direct roof mount kit is standard and included (920-39). Optional tow mount direct roof mount kit is available as a substitution to the standard kit (920-39T).

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SAE Class 1 & California Title 13 approved when properly configured

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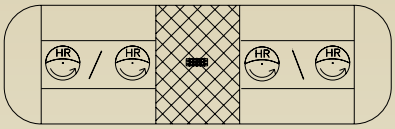
STAR WARNING SYSTEMS THE U.S.

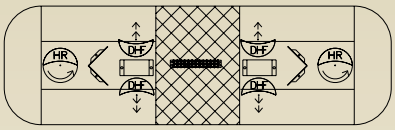
AEROSTAR® LIGHTBARS - 40" WARNING PACKAGES

6304H



Standard Models:

#6304H Four halogen rotators, two wall mirrors, two 12" dome sections*

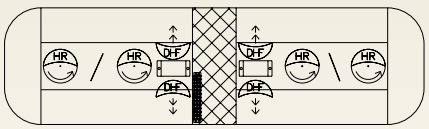


#6308H Two halogen rotators, two front flashers, two rear flashers, two V-mirrors, two 12" dome sections*

Polished stainless steel centerpiece standard; black matte centerpiece optional.
**Inserts are only available on 16" dome sections (up to two inserts front and two to the rear).*

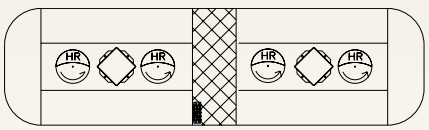
AEROSTAR® LIGHTBARS - 44" 2 LENS WARNING PACKAGES

6414H

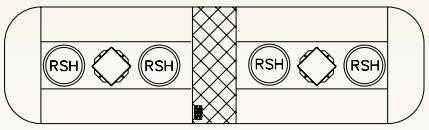


Standard Models:

#6414H Four halogen rotators, two front flashers, two rear flashers, two wall mirrors, two 16" dome sections*



#6444H Four halogen rotators, two double V-mirrors, two 16" dome sections*



#6444S Four 360° strobe heads, two 2-head strobe packs, two double V-mirrors, two 16" dome sections*

Polished stainless steel centerpiece standard; black matte centerpiece optional.
**Inserts are only available on 16" dome sections (up to two inserts front and two to the rear)*

Lenses, filters, and inserts are available in red, blue, amber, green, and clear. An aluminum direct roof mount kit is standard and included (920-39). Optional tow mount direct roof mount kit is available as a substitution to the standard kit (920-39T).

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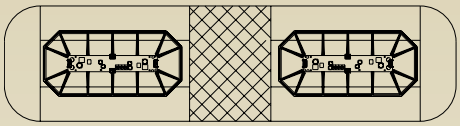
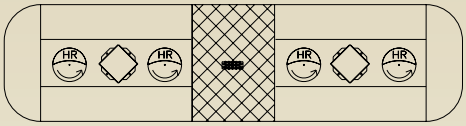
SAE Class 1 & California Title 13 approved when properly configured

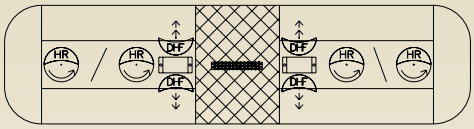
AEROSTAR® LIGHTBARS - 48" WARNING PACKAGES

NEW M-Tech Plus™ LED Technology

6464LED





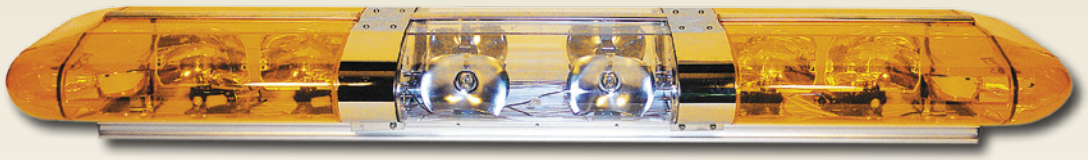


Standard Models:

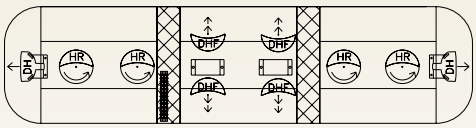
#6464LED	M-Tech Plus® LED lightbar with 64 LEDs. two 16" dome sections*
#6420H	Four halogen rotators, two double V-mirrors, two 16" dome sections*
#6448H	Four halogen rotators, two wall mirrors, two front flashers, two rear flashers, two 16" dome sections*

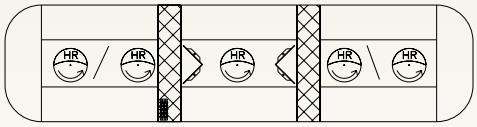
Polished stainless steel centerpiece standard; black matte centerpiece optional.
**Inserts are only available on 16" dome sections (up to two inserts front and two to the rear)*

AEROSTAR® LIGHTBARS - 48" 3 LENS WARNING PACKAGES



6423H





Standard Models:

#6423H	Four halogen rotators, two front flashers, two rear flashers, two alley lights, three 12" dome sections*
#6430H	Five halogen rotators, two V-mirrors, two wall mirrors, three 12" dome sections*

Lenses, filters, and inserts are available in red, blue, amber, green, and clear. An aluminum direct roof mount kit is standard and included (920-39). Optional tow mount direct roof mount kit is available as a substitution to the standard kit (920-39T).

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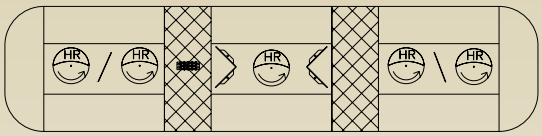
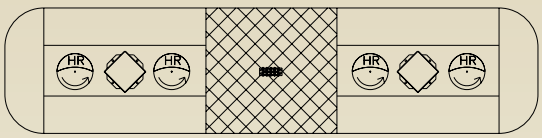
STAR WARNING SYSTEMS THE U.S.

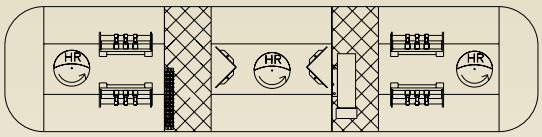
AEROSTAR® LIGHTBARS - 52" WARNING PACKAGES

6500H

Lenses, filters, and inserts are available in red, blue, amber, green, and clear. An aluminum direct roof mount kit is standard and included (920-39). Optional tow mount direct roof mount kit is available as a substitution to the standard kit (920-39T).







Standard Models:

#6500H Five halogen rotators, two V-mirrors, two wall mirrors, three 12" dome sections*

#6550H Four halogen rotators, two double V-mirrors, two 16" dome sections*

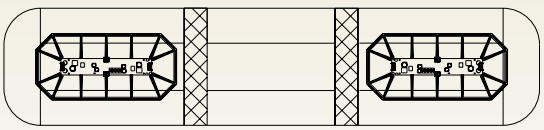
#6500HSL Three halogen rotators, four 4.5" linear strobe heads, one 4-head strobe pack, two V-mirrors, three 12" dome sections*

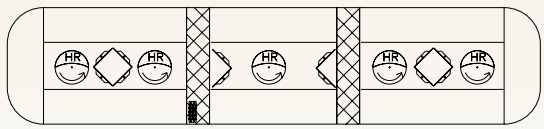
Polished stainless steel centerpiece standard; black matte centerpiece optional.
**Inserts are only available on 16" dome sections (up to two inserts front and two to the rear)*

NEW M-Tech Plus™ LED Technology

AEROSTAR® LIGHTBARS - 56" WARNING PACKAGES

6530H





Standard Models:

#6564LED M-Tech Plus® LED lightbar with 64 LEDs, two 16" dome sections*, one 12" dome section*

#6530H Five halogen rotators, two V-mirrors, two double V-mirrors, two 16" dome sections*, one 12" dome section*

Polished stainless steel centerpiece standard; black matte centerpiece optional.
**Inserts are only available on 16" dome sections (up to two inserts front and two to the rear)*

Lenses, filters, and inserts are available in red, blue, amber, green, and clear. An aluminum direct roof mount kit is standard and included (920-39). Optional tow mount direct roof mount kit is available as a substitution to the standard kit (920-39T).

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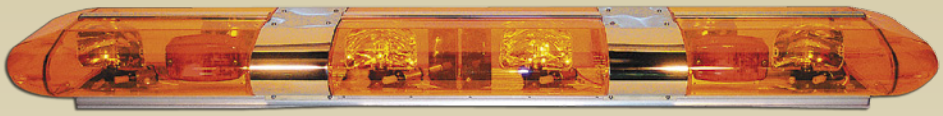
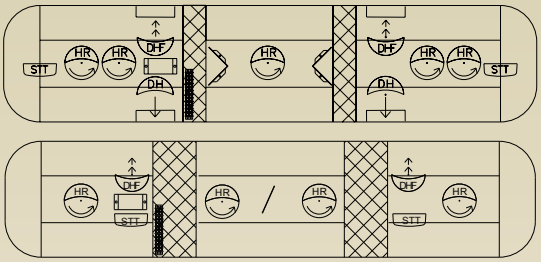
AEROSTAR® LIGHTBARS - 56” 3 LENS TOW PACKAGES



6556H



Standard Models:

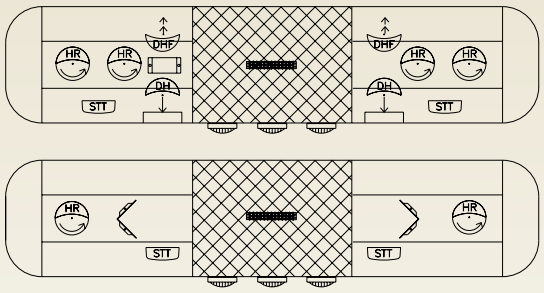
#6531H Five halogen rotators, two front flashers, two rear work lights, two V-mirrors, two stop/tail/turn lights, two 16” end dome sections*, one 12” center dome section*

#6556H Four halogen rotators, one wall mirror, two front flashers, two stop/tail/turn lights, two 12” dome sections*, one 16” dome section*

Polished stainless steel centerpiece standard; black matte centerpiece optional.
**Inserts are only available on 16” dome sections (up to two inserts front and two to the rear)*

AEROSTAR® LIGHTBARS - 56” 2 LENS TOW PACKAGES

6511H



Standard Models:

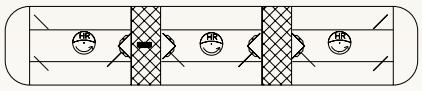
#6511H Four halogen rotators, two rear work lights, two front flashers, two stop/tail/turn lights, three D.O.T. marker lights, two 16” end dome sections*

#6506H Two halogen rotators, two V-mirrors, two stop/tail/turn lights, three D.O.T. marker lights, two 16” end dome sections*

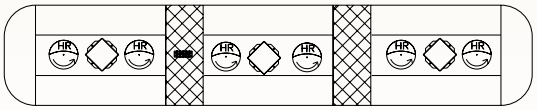
Polished stainless steel centerpiece standard; black matte centerpiece optional.
**Inserts are only available on 16” dome sections (up to two inserts front and two to the rear)*

AEROSTAR® LIGHTBARS - 64” WARNING PACKAGES

6606H



6603H - Three Halogen Rotators, Eight Wall Mirrors, Four Medium V-Mirror, Three 16” Dome Sections



Standard Models:

#6603H Three halogen rotators, four V-mirrors, six wall mirror array, three 16” dome sections*

#6606H Six halogen rotators, three double V-mirrors, three 16” dome sections*

Polished stainless steel centerpiece standard; black matte centerpiece optional.
**Inserts are only available on 16” dome sections (up to two inserts front and two to the rear)*

To view all AEROSTAR® LIGHTBARS or request a custom lightbar design kit, please contact us at www.starheadlight.com
SAE Class 1 & California Title 13 approved when properly configured

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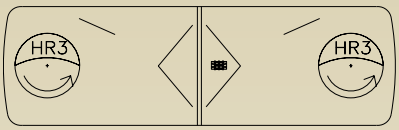
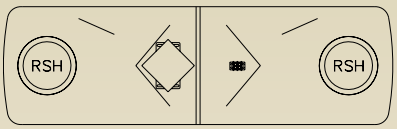
STAR WARNING SYSTEMS
THE U.S.

STARBAR® LIGHTBARS - 36" WARNING PACKAGES

9300H





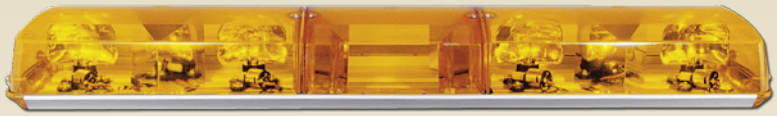
Lenses and filters are available in red, blue, amber, green, and clear. An aluminum direct roof mount kit is standard and included (920-39). Optional tow mount direct roof mount kit is available as a substitution to the standard kit (920-39T).

Standard Models:

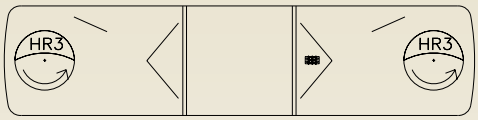
#9300H Two Starbeam™ halogen rotators, two V-mirrors, two wall mirrors

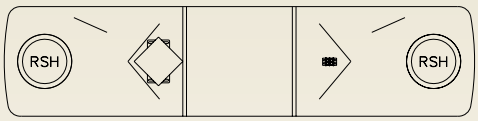
#9300S Two 360° remote strobe heads, two V-mirrors, two wall mirrors, one 2-head strobe pack

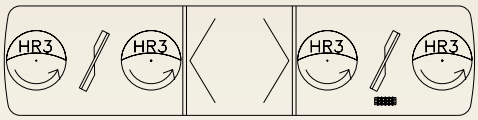
STARBAR® LIGHTBARS - 48" WARNING PACKAGES

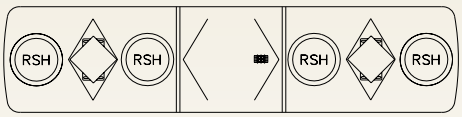


9404H









Standard Models:

#9400H Two Starbeam™ halogen rotators, two V-mirrors, two wall mirrors

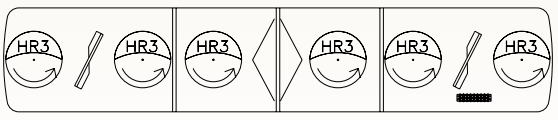
#9400S Two 360° remote strobe heads, two V-mirrors, two wall mirrors, one 2-head strobe pack

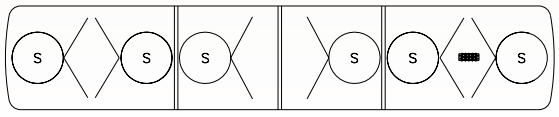
#9404H Four Starbeam™ halogen rotators, two full size wall mirrors, two large wall mirrors

#9404S Four 360° remote strobe heads, two double V-mirrors, two V-mirrors, two 2-head strobe packs

STARBAR® LIGHTBARS - 58" WARNING PACKAGES

9500S





Standard Models:

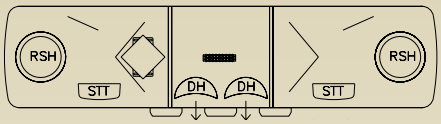
#9500H Six Starbeam™ halogen rotators, two double V-mirrors, two V-mirrors

#9500S Six 360° strobes, two double V-mirrors, two V-mirrors

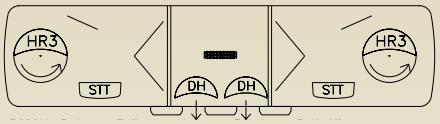
STARBAR® LIGHTBARS - 48" TOW PACKAGES

9411S

Standard Models:



#9411H Two Starbeam™ halogen rotators, two V-mirrors, two wall mirrors, two stop/tail/turn lights, three I.D. marker lights, two rear directional halogen flood lights

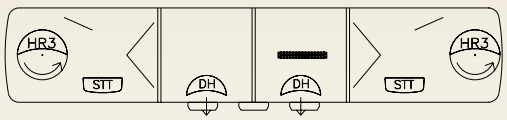


#9411S Two 360° remote strobe heads, two V-mirrors, two wall mirrors, two stop/tail/turn lights, three I.D. marker lights, two rear directional halogen flood lights, one 2-head strobe pack

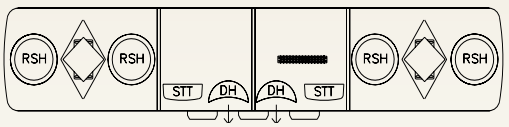
STARBAR® LIGHTBARS - 58" TOW PACKAGES

9512HS

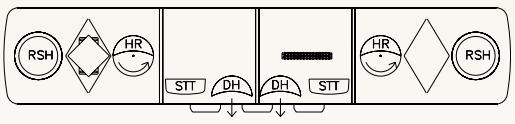
Standard Models:



#9511H Two Starbeam™ halogen rotators, two V-mirrors, two wall mirrors, two stop/tail/turn lights, three I.D. marker lights, two rear directional halogen flood lights



#9512S Four 360° remote strobe heads, two double V-mirrors, two stop/tail/turn lights, three I.D. marker lights, two rear directional halogen flood lights, two 2-head strobe packs



#9512HS Two halogen rotators, two 360° remote strobe heads, two double V-mirrors, two stop/tail/turn lights, three I.D. marker lights, two rear directional halogen flood lights, one 2-head strobe pack

Lenses and filters are available in red, blue, amber, green, and clear. An aluminum direct roof mount kit is standard and included (920-39). Optional tow mount direct roof mount kit is available as a substitution to the standard kit (920-39T).

To view all STARBAR® LIGHTBARS or request a custom lightbar design kit, please contact us at www.starheadlight.com
SAE Class 1 & California Title 13 approved when properly configured

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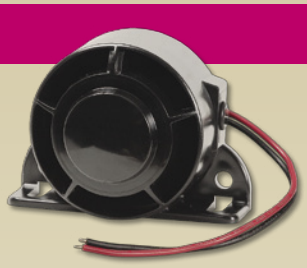
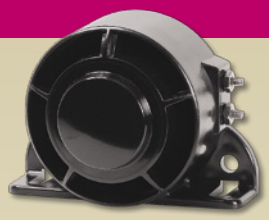
STAR WARNING SYSTEMS THE U.S.

NEW STAR ALARM® BACK-UP ALARMS



66 Series Alarm
with attached wire leads



66 Series Alarm
with wire lugs only

Specifications:

Size:	4-3/16"H x 3-1/16"W x 2"D
Weight:	2 lbs.
Amp Draw:	0.3 Amps
Mounting:	Industry Standard

Our 66 Series back-up alarms with CRS Technology™ incorporate a compact rear-facing speaker with a heavy-duty housing to provide one of the most reliable sound chambers in the industry. This design almost completely protects the speaker from the damage often caused by high-pressure spray, dirt, and fine dust!

62 Series Alarm
(Polycarbonate housing)

60 & 62 Series Specifications:

Size:	3"H x 4-1/2"W x 2"D
Weight:	2 lbs.
Amp Draw:	Less than 0.5 Amps
Mounting:	2 holes (3-25/32" centers)

61 Series Alarm

61 Series Specifications:

Size:	4-1/2"H x 6"W x 2-3/8"D
Weight:	4 lbs.
Amp Draw:	Less than 0.5 Amps
Mounting:	2 holes (5-1/4" centers)

STAR ALARM® Back-up Alarms are built for long-term reliability, all with a Beep Rate of approximately 60 per minute. They are a convenient compact size available in a range of decibel options perfect for a wide range of vehicle applications.

Models & Specifications:

66 Series Back-Up Alarms w/ attached wire leads

66-087:	12V - 36V DC	87db
66-097:	12V - 36V DC	97db
66-097-12:	12V DC only	97db
66-102:	12V - 36V DC	102db
66-107-12:	12V DC	107db
66-107-24	24V-36V	107db
Dual -Tone		
66-097DT:	12V - 24V DC	97db
66-102DT:	12V DC	102db
Starmatic Auto-Adjust		
66-707A:	12V - 24V DC	Auto-adjust 77db - 97db
66-802A:	12V - 24V DC	Auto-adjust 82db - 102db
66-807A:	12V DC	Auto-adjust 87db - 107db
Selectable		
66-802S:	12V - 36V DC	87 or 102db
66-907S:	12V DC	97or 107db
Dual Function		
66-097DF:	12V - 36V DC	97db
Selectable		
66-097SS:	12V - 36V DC	97db
66-092SS:	12V - 36V DC	92db
66-087SS:	12V - 36V DC	87db

66 Series Back-up Alarms with wire lugs only

Single-Tone

66L-087:	12V - 36V DC	87db
66L-097:	12V - 36V DC	97db
66L-097-12:	12V DC only	97db
66L-102:	12V - 36V DC	102db
66L-107-12:	12V DC	107db
66L-107-24	24V-36V	107db
Dual -Tone		
66L-097DT:	12V - 24V DC	97db
66L-102DT:	12V DC	102db
Starmatic Auto-Adjust		
66L-707A:	12V - 24V DC	Auto-adjust 77db - 97db
66L-802A:	12V - 24V DC	Auto-adjust 82db - 102db
66L-807A:	12V DC	Auto-adjust 87db - 107db

60 & 62 Series Single-Tone Back-up Alarms

60-087:	12V - 36V DC	87db
60-097:	12V - 36V DC	97db
60-102:	12V - 36V DC	102db
60-107-12:	12V DC only	107db
60-107-24:	24V - 36V DC	107db
62-087:	12V - 36V DC	87db
62-097:	12V - 36V DC	97db
62-102:	12V - 36V DC	102db
62-107-12:	12V DC only	107db
62-107-24:	24V - 36V DC	107db

60 & 62 Series Dual-Tone Back-up Alarms

60-097DT:	12V - 36V DC	97db
60-102DT:	12V DC	102db
62-097DT:	12V - 36V DC	97db
62-102DT:	12V DC	102db

60 & 62 Series Starmatic™ Auto-Adjust Back-up Alarms

60-707A:	12V - 24V DC	Auto-adjust 77db - 97db
60-802A:	12V - 24V DC	Auto-adjust 82db - 102db
60-807A:	12V DC	Auto-adjust 87db - 107db
62-707A:	12V - 24V DC	Auto-adjust 77db - 97db
62-802A:	12V - 24V DC	Auto-adjust 82db - 102db
62-807A:	12V DC	Auto-adjust 87db - 107db

60 & 62 Series Selectable Decibel Back-up Alarms

60-802S:	12V - 36V DC	Selectable 87db or 102db
60-907S:	12V DC	Selectable 97db or 107db
62-802S:	12V - 36V DC	Selectable 87db or 102db
62-907S:	12V DC	Selectable 97db or 107db

61 Series Single-Tone Back-up Alarms

61-107-12:	12V DC Only	107db
61-107-24:	12V - 36V DC	107db
61-112:	12V - 36V DC	112db

64 Series Alarm
with attached wire leads

64 Series Alarm
with wire lugs only

64 Series Alarm
with wire lugs and self-grounding strap

DK Series Displays for 64 Series Star Alarms.
Kits include 5 Alarms, Labels,
and mounting hardware

DK64 Series
Wall Mount Kit

DKC64 Series
Counter Display Kit

63 Series Alarm
Grommet Mount

STAR ALARM® Back-up Alarms are reliable additions to the STAR Alarm series. Choose between 64 series (heavy duty plastic) or 63 series (grommet mount) alarms, all with a Beep Rate of approximately 60 per minute. They are a convenient compact size available in a range of decibel options perfect for a wide range of vehicle applications.

64 Series Back-up Alarms with attached wire leads

Single-Tone

64-087:	12V - 36V DC	87db
64-097:	12V - 36V DC	97db
64-097-12:	12V DC only	97db
64-102:	12V - 36V DC	102db
64-107-12:	12V DC only	107db
64-107-24:	24V - 36V DC	107db

Dual-Tone

64-097DT:	12V - 36V DC	97db
64-102DT:	12V - 36V DC	102db

Starmatic Auto-Adjust

64-707A:	12V - 24V DC	Auto-adjust 77db - 97db
64-802A:	12V - 24V DC	Auto-adjust 82db - 102db
64-807A:	12V DC	Auto-adjust 87db - 107db

64 Series Back-up Alarms with wire lugs only

Single-Tone

64L-097-12:	12V DC only	97db

64 Series Back-up Alarms with wire lugs and self-grounding strap

Single-Tone

64G-087:	12V - 36V DC	87db
64G-097:	12V - 36V DC	97db
64G-097-12:	12V DC only	97db
64G-102:	12V - 36V DC	102db
64G-107-12:	12V DC only	107db
64G-107-24:	24V - 36V DC	107db

Dual-Tone

64G-097DT:	12V - 36V DC	97db
64G-102DT:	12V - 36V DC	102db

Starmatic Auto-Adjust

64G-707A:	12V - 24V DC	Auto-adjust 77db - 97db
64G-802A:	12V - 24V DC	Auto-adjust 82db - 102db
64G-807A:	12V DC	Auto-adjust 87db - 107db

Specifications:

Size:	4-1/16"H x 2-5/8"W x 1-5/8"D
Weight:	2 lbs.
Amp Draw:	Less than 0.5 Amps
Mounting:	2 holes (3-25/32" centers)

Models & Specifications:

63 Series Single-Tone Back-up Alarms

63-087:	12V - 36V DC	87db
63-097:	12V - 36V DC	97db
63-097-12:	12V DC only	97db
63-102:	12V - 36V DC	102db
63-107-12:	12V DC Only	107db
63-107-24:	24V - 36V DC	107db

63 Series Dual-Tone Back-up Alarms

63-097DT:	12V - 36V DC	97db
63-102DT:	12V DC only	102db

Specifications:

Size:	4-5/16"Dia. x 1-5/8"D
Weight:	2 lbs.
Amp Draw:	**0.3 Amps**
Mounting:	Requires standard 4-1/2" rubber grommet

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e-mail: ventas@entorno-industrial.com • direccion@entorno-industrial.com www.entorno-industrial.com

STAR WARNING SYSTEMS THE U.S.

SB4020 & SB4040 Series

SB4020

SB4040

SB4020T

SB4425T

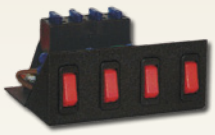
Use these deluxe switch boxes to control your Star lightbars or any other functions of your choice. The SB4020 Series features all illuminated switches when in use and the legends are backlit for easy nighttime readability. There is one 40 amp circuit, protected by a relay and self-resetting circuit breaker, and five 20 amp circuits which are individually protected by fuses. The SB4040 features a 3-mode progressive, 40 amp (max) switch, and four 20 amp illuminated switches for a total of 7 fuse protected functions. A customer adjustable jumper has been included for the option of separating slide position 1 & 2 to work independently. The SB4425 offers ten lighted rocker switches for maximum flexibility. The SB4040 and SB4020 series are also available with an attached 15' wire harness. Terminal blocks are standard on SB4020T and SB4425T. Ships complete with legends, mounting bracket, hardware, and instructions.

Models & Specifications:

SB4020:	(1) 40 amp switch, (5) 20 amp switches, 2' wire harness
SB4020-15:	(1) 40 amp switch, (5) 20 amp switches, 15' wire harness
SB4020T:	(1) 40 amp switch, (5) 20 amp switches, nine position terminal block
SB4040:	(4) 20 amp switches, (1) 3-mode 40 amp (max) progressive slide switch, 2' wire harness
SB4040-15:	(4) 20 amp switches, (1) 3-mode 40 amp (max) progressive slide switch, 15' wire harness
SB4425T:	(1) On/Off power switch (switches 2-5), (4) 40 amp switches, (5) 20 amp switches, twelve position terminal block
Size:	2"H x 6"W x 4-3/4"D, SB4020T: 2-1/4"H x 6-1/8"W x 5-1/4"D SB4425T: 2-1/2"H x 6-1/4"W x 7-1/4"D
Weight (All):	5 lbs.

SB/SP1515 & SB/SP 3015 Series

SB3015
(bottom side up view)



SP1515
(bottom side up view)

These switch boxes and switch panels can be mounted under the dash or on the transmission tunnel of the vehicle. The SB1515 and SB3015 are enclosed switch boxes. The SP1515 and SP3015 are not enclosed. All four models have illuminated switching and are equipped with individually fused circuits. Ships complete with instructions.

Models & Specifications:

SB1515:	Enclosed Switch Box with (4) 20 amp switches
SP1515:	Switch Panel with (4) 20 amp switches
SB3015:	Enclosed Switch Box with (1) 30 amp switch, (3) 20 amp switches
SP3015:	Switch Panel with (1) 30 amp switch, (3) 20 amp switches
Size (All):	2"H x 4-1/2"W x 4"D
Weight (All):	4 lbs.

SP3860 Series - Switch Panels

SP3860-1

SP3860-2
SP3860-2H

These switch panels can be easily mounted under the dash. All switch panels have illuminated switching and are pre-wired with an in-line fuse for easy installation. Ships complete with labels and instructions.

Models:

SP3860-1:	On/Off
SP3860-2:	On/Off - On/Off
SP3860-2H:	On/Off - High/Low
SP3860-3:	On/Off - On/Off - On/Off
SP3860-3H:	On/Off - High/Low - On/Off
SP3860-4:	On/Off - On/Off - On/Off - On/Off
SP3860-4H:	On/Off - High/Low - On/Off - On/Off
SP3860-5:	On/Off - On/Off - On/Off - On/Off - On/Off

A. HH2501

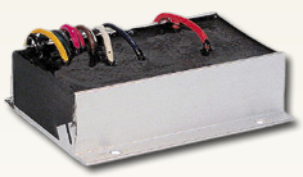
B HH2502

C. HH3930

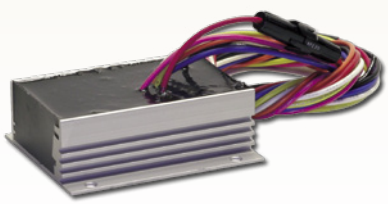
D. HH3970

E. HH3971

F. FM3666



G. FM3669C



H. DRL366-1

Models & Specifications:

A. HH2501 — Mini-Rectangular halogen head. grille mount halogen warning light.
Lens color: Amber, Blue, Clear, Red

B. HH2502 — Rectangular halogen head. grille mount halogen warning light.
Lens color: Amber, Blue, Clear, Red

C. HH3930 — Par-36 Round sealed beam head. Grille or rear mount halogen warning light with shock-resistant black rubber housing.
Lens color: Amber, Blue, Clear, Red

D. HH3970 — 7" Diameter sealed beam head:
For ambulances, fire trucks, rescue vehicles, school buses.
Lens color: Amber, Blue, Clear, Red

E. HH3971 — 7" Rectangular sealed beam head:
For ambulances, fire trucks, rescue vehicles
Lens color: Amber, Blue, Clear, Red

F. FM3666: 12V DC Mechanical Flasher.
Flash Rate: 1.2 flashes per second per lamp.

FM3662: 12V DC Solid state flasher for up to 100 Watts per side.
Flash Rate: 2.4 flashes per second per lamp.

FM3662-24: 24V DC Solid state flasher for up to 100 Watts per side.
Flash Rate: 2.0 flashes per second per lamp.

FM3667: 12V DC Solid state flasher for back-up/brake light.
Flash Rate: 2.4 flashes per second per lamp.

FM3669: 12V DC Solid state flasher with DRL for up to 100 Watts per side. DRL override, night time cut off.
Flash Rate: 1.9 flashes per second per lamp.

G. FM3669C: 12V DC Solid state flasher for up to 100 Watts per side. Customer selectable flash patterns (Alternating or Simultanious). Night time cut off. Compatible with factory installed DRL control.
Flash Rate: Alternating: 1.9 flashes per second per lamp.
Simultaneous: 3.6 flashes per second per lamp.

FM6901: 12V DC Solid state flasher. Alternately flashes headlights. Has high beam override and night time cut off. Handles up to 165 watts per output.
Flash Rate: 1.9 flashes per second per lamp.

FM6902: 12V DC Solid state flasher. Alternately flashes headlights. Has high beam override and night time cut off. Handles up to 165 watts per output.
Flash Rate: 2.9 flashes per second per lamp.

FM6903: 12V DC Solid state flasher. Simultaneously flashes headlights. Has high beam override and night time cut off. Handles up to 165 watts per output.
Flash Rate: 2.9 flashes per second per lamp.

FM6904: Flashes left headlight three times, flashes right headlight three times, then flashes both headlights together three times. Handles up to 165 watts per output.
Flash Rate: 2.9 flashes per second per lamp.

FM6905: Ford Crown Victoria Police Package, 2006-current. 12V DC Solid state flasher. Three customer selectable flash patterns. High beam over ride and night time cut off. Handles up to 55 watts per output. Plug-n-Play
Flash Rate: 1.9, 3.0, or variable 1.9-3.9 flashes per second per lamp. (depending on flash pattern selected)

FM6906: Chevrolet Impala Police Package, 2006-current. 12V DC Solid state flasher. Alternately flashes headlights. High beam override. Handles up to 55 watts per output. Plug-n-Play
Flash Rate: 3.0 flashes per second per lamp.

H. DRL366-1: Heavy-duty daytime running light module with taillight output, park brake override.

Organizers, Brackets & Guards

SR10

SR7

274-RCK

274-SL

274-LMB

274-SL1

BKT3920

BKT3904

274-40C

274-40S

274-55TC

274-55TS

274-MMB

274-MMBS

274-MMB1T

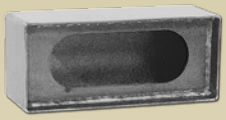
Models & Specifications:

SR7:	Vertical mount 2 unit organizer
Size:	12-1/2"H x 4-5/16"D
Weight:	2 lbs.
SR9:	Vertical mount 3 unit organizer
Size:	13-1/2"H x 4-5/16"D
Weight:	2 lbs.
SR10:	Horizontal mount 3 unit organizer
Size:	7"H x 12"D
Weight:	2.5 lbs.
SR12:	Horizontal mount 4 unit organizer
Size:	7"H x 14"D
Weight:	2.5 lbs.
274-RCK:	Rack for mounting multiple warning lights
Size:	Standard 58" length
Weight:	13 lbs.
274-SL:	Self-Leveling bracket
Size:	11"H x 4-1/4"D
Weight:	9 lbs.
Mounting:	2 holes on 6-1/4" centers
274-SL1:	Self-Leveling bracket for Star Mini-Bars®
Size:	11"H x 4-1/4"D
Weight:	5 lbs.
Mounting:	3 holes on 5-3/4" centers
274-LMB:	L-bracket for mirror blockout
Size:	8"H x 8"W x 8"D
Weight:	2 lbs.
BKT3920:	Steel mount bracket for 6" oval heads
BKT3904:	Steel mount bracket for 4" round heads
274-40C:	Black powder coated steel guard for 6" Lens (Strobe & LED Beacons)
274-40S:	Black powder coated steel guard for 4" Lens (Strobe & LED Beacons)
274-55TC:	Black powder coated steel guard for 255TC Series 6" Lens (Strobe & LED Beacons)
274-55TS:	Black powder coated steel guard for 255TS Series 4" Lens (Strobe & LED Beacons)

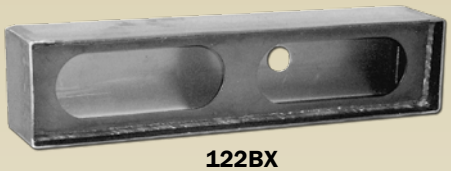
Mirror Mount Brackets:

274-MMB:	1/2" NPT, 3/4" Post only
274-MMBS:	1/2" NPT, 1-1/4" or 3/4" Posts, Short bracket
274-MMBT:	1/2" NPT, 1-1/4" or 3/4" Posts, Tall bracket
274-MMB1S:	1" NPT, 1-1/4" or 3/4" Posts, Short bracket
274-MMB1T:	1" NPT, 1-1/4" or 3/4" Posts, Tall bracket

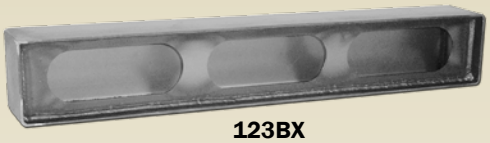
120BX Series - Heavy Duty Mount Boxes



121BX



122BX



123BX

These heavy gauge steel mount boxes are shipped unpainted and ready to weld. Optional self-leveling bracket assembly is available: 274-SBX

Models & Specifications:

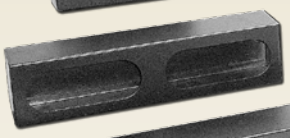
121BX: Holds *ONE* 6" oval head:
Size: 3-3/4"H x 9"W x 3-1/2"D
Weight: 6 lbs.

122BX: Holds *TWO* 6" oval heads:
Size: 3-3/4"H x 17"W x 3-1/2"D
Weight: 9 lbs.

123BX: Holds *THREE* 6" oval heads:
Size: 3-3/4"H x 25-1/4"W x 3-1/2"D
Weight: 12 lbs.

130BX & 140BX Series - Light Duty Mount Boxes

131BX

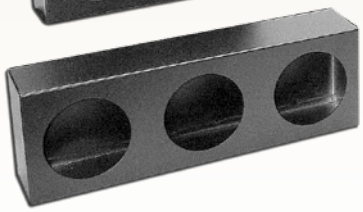


132BX

133BX

141BX

142BX



143BX

These light gauge steel mount boxes are shipped painted with knockouts for mounting. Optional self-leveling bracket assembly is available: 274-SBX

Models & Specifications:

131BX: Holds *ONE* 6" oval head:
Size: 4"H x 9"W x 3-1/4"D
Weight: 2 lbs.

132BX: Holds *TWO* 6" oval heads:
Size: 4"H x 16-5/8"W x 3-1/4"D
Weight: 5 lbs.

133BX: Holds *THREE* 6" oval heads:
Size: 4"H x 25"W x 3-1/4"D
Weight: 8 lbs.

141BX: Holds *ONE* 4" round head:
Size: 6"H x 6-1/4"W x 3-1/2"D
Weight: 2 lbs.

142BX: Holds *TWO* 4" round heads:
Size: 6"H x 12-1/2"W x 3-1/2"D
Weight: 5 lbs.

143BX: Holds *THREE* 4" round heads:
Size: 6"H x 16-3/4"W x 3-1/2"D
Weight: 8 lbs.

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STAR WARNING SYSTEMS
THE U.S.

MISCELLANEOUS

Uni-Direction Switch
63-643

Any-Direction Switch
63-642

296

296S

360DL

500C

PARTS	Part #
Incandescent Bulb	PR13
Battery	8100

Models & Specifications:

63-643:	Uni-directional switch for Backup Alarms. Activates alarm in one direction only.
63-642:	Any-direction switch for Backup Alarms. Spring-level activates alarm in any direction.

Both 63-642 and 63-643 are rated at 16 amps at 12V DC.
To be installed adjacent to linkage of gear shift lever.

296:	Dust cover for 6" lens (Strobe and LED Beacons)
296S:	Dust cover for 4" lens (Strobe and LED Beacons)

360D Series Personal Safety LED

Magnetic mount (60 lbs) or clips to belt loop via nylon strap or pins to clothing.

Output:	0.130 Watts
Weight:	less than 1 lb.
Dimensions:	4-3/4" H x 1-1/2" D

Specifications:

Lens color:	(Blue)
Case color:	(Blue)

500C:	Lantern
Size:	7-1/8"H x 4-3/4"W x 6-3/4"D
Weight:	4 lbs. (with battery)

WORK LIGHTS & MAP LIGHTS

510-1M

510-TK

ML Series

PARTS	
Bulb	2073-64111

Models & Specifications:

510:	Clear sealed beam
Weight:	2 lbs.
Output:	3000cp
511:	Sealed beam with lens shield
Weight:	2 lbs.
Output:	3000cp
Lens Colors:	Amber, Blue, Clear, Red
510-4509:	Clear, high intensity, sealed beam
Weight:	2 lbs.
Output:	110,000cp
510-1:	Clear sealed beam with On/Off switch
Weight:	2 lbs.
Output:	3000cp
510-M:	Clear sealed beam with magnet mount and cig plug
Weight:	3 lbs.
Output:	3000cp
510-1M:	Clear sealed beam with magnet mount, cig plug and On/Off switch
Weight:	3 lbs.
Output:	3000cp
511-1M:	Clear sealed beam with magnet mount, cig plug, On/Off switch, and lens shield
Weight:	3 lbs.
Output:	3000cp
Lens Colors:	Amber, Blue, Clear, Red
510-TK:	A complete tow kit that includes two sealed beam lights with red lenses, magnet mount, 30' cable, and connectors all shipped in an enclosed utility box
Kit Weight:	8 lbs.
Output:	3000cp (x2)
Map Lights:	
ML-3:	Lighter plug mount (7" flexible neck)
Size:	12-1/2"H
ML-4:	Permanent mount (4" flexible neck)
Size:	7"H
ML-5:	Permanent mount (18" flexible neck)
Size:	21"H
ML-6:	Permanent mount (10-1/2" flexible neck)
Size:	13"H
Weight:	All less than 1 lb.
Amps:	All 0.5 Amps

STAR RAZOR®, STAR SABRE®, STAR INTERCEPTOR® LIGHTBAR SPECIFICATIONS

Strobe Pack (2-Head): RP249A-L; 70 Five-flash sequences per minute @ 75 watts (700 FPM)
Strobe Pack (4-Head): RP249-L; 70 Five-flash sequences per minute @ 90 watts (1400 FPM)

Model	Voltage	Typical Amp Draw*	Mounting	Dimensions	Shipping Weight
2363LED	12	7.2 (max)	hook-on/permanent	2-3/4" H x 15" W x 36" L	25 lbs.
2300SLD	12	12 (max)	hook-on/permanent	2-3/4" H x 15" W x 36" L	27 lbs.
2300LED	12	14.4 (max)	hook-on/permanent	2-3/4" H x 15" W x 36" L	27 lbs.
2464LED	12	7.2 (max)	hook-on/permanent	2-3/4" H x 15" W x 46" L	31 lbs.
2400SLD	12	19 (max)	hook-on/permanent	2-3/4" H x 15" W x 46" L	36 lbs.
2408LED	12	8.0 (max)	hook-on/permanent	2-3/4" H x 15" W x 46" L	36 lbs.
2410LED	12	17 (max)	hook-on/permanent	2-3/4" H x 15" W x 46" L	39 lbs.
2411LED	12	19.4 (max)	hook-on/permanent	2-3/4" H x 15" W x 46" L	39 lbs.
2464LED-TOW	12	23 (max)	hook-on/permanent	2-3/4" H x 15" W x 46" L	35 lbs.
2500SL	12	26 (max)	hook-on/permanent	2-3/4" H x 15" W x 56" L	45 lbs.
2510SL	12	22 (max)	hook-on/permanent	2-3/4" H x 15" W x 56" L	39 lbs.
2564LED-TOW	12	24 (max)	hook-on/permanent	2-3/4" H x 15" W x 56" L	33 lbs.

Rotators: 520-99; 80fpm (+/-10) standard, 520-99F; 160fpm (+/-10) highspeed
Strobe Pack (2-Head): 520-181-SBQ/520-181-SBQ2; 84 Quadflash sequences per minute @ 24 watts (672fpm)
Strobe Pack (2-Head): RP248A-L; 70 Five flash sequences per minute @ 75 watts (700fpm)
Strobe Pack (4-Head): RP248-L; 70 Five flash sequences per minute @ 90 watts (1400fpm)

Model	Voltage	Typical Amp Draw*	Mounting	Dimensions	Shipping Weight
5300H	12	16	hook-on/permanent	4" H x 15" W x 36" L	25 lbs.
5300S	12	2	hook-on/permanent	4" H x 15" W x 36" L	27 lbs.
5364LED	12	7.2 (max)	hook-on/permanent	4" H x 15" W x 36" L	25 lbs.
5400H	12	16	hook-on/permanent	4" H x 15" W x 46" L	30 lbs.
5400S	12	4	hook-on/permanent	4" H x 15" W x 46" L	35 lbs.
5401H	12	18 (max)	hook-on/permanent	4" H x 15" W x 46" L	32 lbs.
5401S	12	6	hook-on/permanent	4" H x 15" W x 46" L	37 lbs.
5464LED	12	7.2 (max)	hook-on/permanent	4" H x 15" W x 46" L	31 lbs.
5401LED	12	29 (max)	hook-on/permanent	4" H x 15" W x 46" L	33 lbs.
5408LED	12	16.8 (max)	hook-on/permanent	4" H x 15" W x 46" L	30 lbs.
5462LED	12	30 (max)	hook-on/permanent	4" H x 15" W x 46" L	33 lbs.
5411LED	12	31 (max)	hook-on/permanent	4" H x 15" W x 46" L	37 lbs.
5420LED	12	36 (max)	hook-on/permanent	4" H x 15" W x 46" L	42 lbs.
5421LED	12	37 (max)	hook-on/permanent	4" H x 15" W x 46" L	44 lbs.
5511H	12	26 (max)	hook-on/permanent	4" H x 15" W x 56" L	44 lbs.
5511S	12	14 (max)	hook-on/permanent	4" H x 15" W x 56" L	47 lbs.
5511SL	12	28 (max)	hook-on/permanent	4" H x 15" W x 56" L	48 lbs.
5611H	12	30 (max)	hook-on/permanent	4" H x 15" W x 66" L	52 lbs.
5611S	12	18 (max)	hook-on/permanent	4" H x 15" W x 66" L	55 lbs.
5611SL	12	32 (max)	hook-on/permanent	4" H x 15" W x 66" L	56 lbs.

Rotators: 920-99; 80fpm (+/-10) standard, 920-99F; 160fpm (+/-10) highspeed
Strobe Pack (2-Head): 620-181-SBQ; 84 Quadflash sequences per minute @ 24 watts (672fpm)
Strobe Pack (2-Head): RP249A; 70 Five flash sequences per minute @ 75 watts (700fpm)
Strobe Pack (4-Head): RP249; 70 Five flash sequences per minute @ 90 watts (1400fpm)

Model	Voltage	Typical Amp Draw*	Mounting	Dimensions	Shipping Weight
8300H	12	16	hook-on/permanent	5" H x 15" W x 36" L	25 lbs.
8300S	12	2	hook-on/permanent	5" H x 15" W x 36" L	27 lbs.
8300SL	12	17.2	hook-on/permanent	5" H x 15" W x 36" L	32 lbs.
8400H	12	16	hook-on/permanent	5" H x 15" W x 46" L	30 lbs.
8400S	12	7	hook-on/permanent	5" H x 15" W x 46" L	35 lbs.
8401H	12	24 (max)	hook-on/permanent	5" H x 15" W x 46" L	32 lbs.
8401S	12	12	hook-on/permanent	5" H x 15" W x 46" L	37 lbs.
8402HSL	12	21	hook-on/permanent	5" H x 15" W x 46" L	40 lbs.
8510H	12	28 (max)	hook-on/permanent	5" H x 15" W x 56" L	42 lbs.
8510S	12	16 (max)	hook-on/permanent	5" H x 15" W x 56" L	45 lbs.
8521H	12	42 (max)	hook-on/permanent	5" H x 15" W x 56" L	47 lbs.
8610H	12	32 (max)	hook-on/permanent	5" H x 15" W x 66" L	50 lbs.
8610S	12	20 (max)	hook-on/permanent	5" H x 15" W x 66" L	53 lbs.
8610SL	12	34 (max)	hook-on/permanent	5" H x 15" W x 66" L	54 lbs.

*Amp draw will vary depending on the color of the LED heads used and the flash pattern selected.

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STAR WARNING SYSTEMS
THE U.S.

STARBAR® & AEROSTAR® LIGHTBAR SPECIFICATIONS

Rotators: 920-99; 80fpm (+/-10) standard, 920-99F; 160fpm (+/-10) highspeed
Strobe Pack (2-Head): 620-181-SBQ; 84 Quadflash sequences per minute @ 24 watts (672fpm)
Strobe Pack (2-Head): RP248A; 70 Five flash sequences per minute @ 75 watts (700fpm)
Strobe Pack (4-Head): RP248; 70 Five flash sequences per minute @ 90 watts (1400fpm)

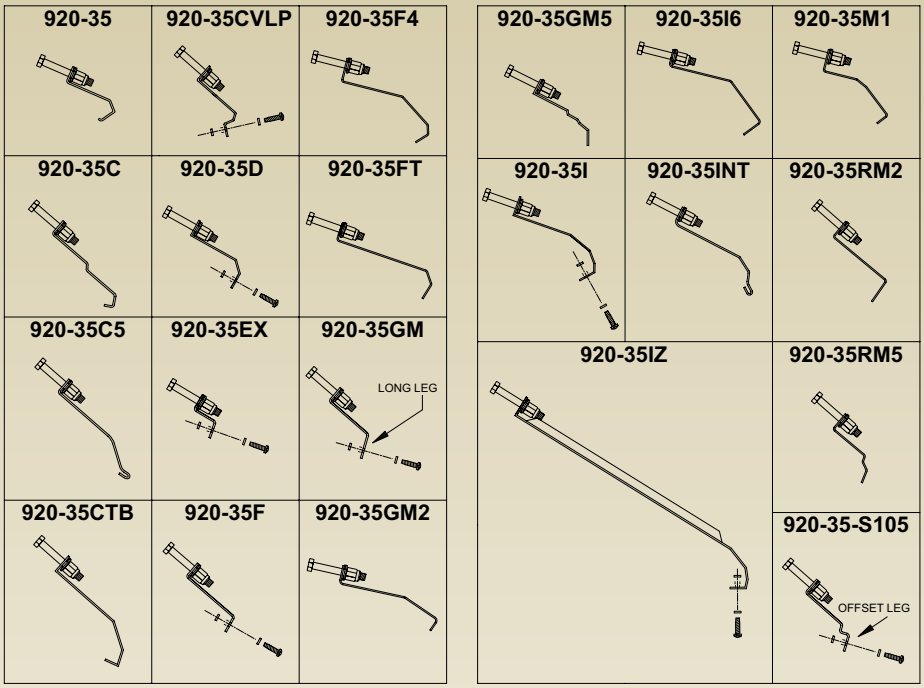
Model	Voltage	Typical Amp Draw*	Mounting	Dimensions	Shipping Weight
6032LED	12	7.2 (max)	hook-on/permanent	5" H x 12.5" W x 20" L	12 lbs.
6020H	12	8	hook-on/permanent	5" H x 12.5" W x 20" L	12 lbs.
6020S	12	2	hook-on/permanent	5" H x 12.5" W x 20" L	12 lbs.
6021H	12	12	hook-on/permanent	5" H x 12.5" W x 20" L	12 lbs.
6222H	12	8	hook-on/permanent	5" H x 12.5" W x 24" L	15 lbs
6222S	12	2	hook-on/permanent	5" H x 12.5" W x 24" L	15 lbs.
6224SL	12	9	hook-on/permanent	5" H x 12.5" W x 24" L	17 lbs.
6304H	12	16 (max)	hook-on/permanent	5" H x 12.5" W x 40" L	24 lbs.
6308H	12	20 (max)	hook-on/permanent	5" H x 12.5" W x 40" L	23 lbs.
6414H	12	28 (max)	hook-on/permanent	5" H x 12.5" W x 44" L	26 lbs.
6444H	12	16 (max)	hook-on/permanent	5" H x 12.5" W x 44" L	25 lbs.
6444S	12	4	hook-on/permanent	5" H x 12.5" W x 44" L	27 lbs.
6420H	12	16	hook-on/permanent	5" H x 12.5" W x 48" L	25 lbs.
6464LED	12	7.2 (max)	hook-on/permanent	5" H x 12.5" W x 48" L	25 lbs.
6423H	12	28 (max)	hook-on/permanent	5" H x 12.5" W x 48" L	29 lbs.
6430H	12	20 (max)	hook-on/permanent	5" H x 12.5" W x 48" L	33 lbs.
6448H	12	24 (max)	hook-on/permanent	5" H x 12.5" W x 48" L	25 lbs.
6556H	12	24 (max)	hook-on/permanent	5" H x 12.5" W x 56" L	30 lbs.
6511H	12	34 (max)	hook-on/permanent	5" H x 12.5" W x 56" L	31 lbs.
6506H	12	14 (max)	hook-on/permanent	5" H x 12.5" W x 56" L	27 lbs.
6603H	12	12	hook-on/permanent	5" H x 12.5" W x 64" L	35 lbs.
6606H	12	24	hook-on/permanent	5" H x 12.5" W x 64" L	31 lbs.

Rotators: 920-99; 80fpm (+/-10) standard, 920-99F; 160fpm (+/-10) highspeed
Strobe Pack (2-Head): 620-181-SBQ; 84 Quadflash sequences per minute @ 24 watts (672fpm)
Strobe Pack (2-Head): RP249A; 70 Five flash sequences per minute @ 75 watts (700fpm)
Strobe Pack (4-Head): RP249; 70 Five flash sequences per minute @ 90 watts (1400fpm)

Model	Voltage	Typical Amp Draw*	Mounting	Dimensions	Shipping Weight
9300H	12	8	hook-on/permanent	5" H x 11" W x 36" L	20 lbs.
9300S	12	2.3	hook-on/permanent	5" H x 11" W x 36" L	20 lbs.
9400H	12	8	hook-on/permanent	5" H x 11" W x 48" L	30 lbs.
9400S	12	2.3	hook-on/permanent	5" H x 11" W x 48" L	30 lbs.
9404H	12	16	hook-on/permanent	5" H x 11" W x 48" L	30 lbs.
9404S	12	5	hook-on/permanent	5" H x 11" W x 48" L	30 lbs.
9500H	12	24	hook-on/permanent	5" H x 11" W x 58" L	42 lbs.
9500S	12	12	hook-on/permanent	5" H x 11" W x 58" L	42 lbs.
9411H	12	22 (max)	hook-on/permanent	5" H x 11" W x 48" L	30 lbs.
9411S	12	17 (max)	hook-on/permanent	5" H x 11" W x 48" L	30 lbs.
9511H	12	22 (max)	hook-on/permanent	5" H x 11" W x 58" L	42 lbs.
9512S	12	19 (max)	hook-on/permanent	5" H x 11" W x 58" L	42 lbs.
9512HS	12	25 (max)	hook-on/permanent	5" H x 11" W x 58" L	42 lbs.

*Amp draw will vary depending on the color of the LED heads used and the flash pattern selected.

Star Lightbar Hook Mount Kits



For up to date brackets visit our website www.starheadlight.com

Vehicle Mount Applications

Make	Model	Style	Beg. Year	Thru Year	Roof Width	Model #
CHEVROLET	Avalanche	Wrap-around Doors	2002	2010	51”	920-35-S105
CHEVROLET	C/K Pickup 1500	Wrap-around Doors	1999	2007	52”	920-35-S105
CHEVROLET	C/K Pickup 2500, 3500	Wrap-around Doors	2001	2007	52”	920-35-S105
CHEVROLET	Camaro	Standard Roof	1984	1992	48.5”	920-35
CHEVROLET	Camaro	Wrap-around Doors	1993	2002	45.5”	920-35C
CHEVROLET	Caprice	Standard Roof	1988	1996	48.5”	920-35C
CHEVROLET	Caprice	Wrap-around Doors	1988	1996	48.5”	920-35C
CHEVROLET	Caprice	Standard Roof	1977	1990	54.0”	920-35
CHEVROLET	Cavalier Z-24	Standard Roof	1990	1994	45”	920-35
CHEVROLET	Impala	Wrap-around Doors	2000	2005	51”	920-35I
CHEVROLET	Impala	Wrap-around Doors	2006	2010	46.5”	920-35I6
CHEVROLET	Lumina (Sedan)	Wrap-around Doors	1997		47”	920-35GM
CHEVROLET	Lumina (Sedan)	Wrap-around Doors	1998		47”	920-35C
CHEVROLET	R/V Chassis-Cab	Standard Roof	1990	1991	49”	920-35
CHEVROLET	R/V Series Pickup	Standard Roof	1990	1991	59”	920-35
CHEVROLET	S-10 Blazer & Pickup	Wrap-around Doors	1991	1993	47”	920-35GM2
CHEVROLET	Silverado/Sierra	Wrap-around Doors	2001	2010	52”	920-35-S105
CHEVROLET	Suburban	Standard Roof	1990	1991	59”	920-35
CHEVROLET	Suburban	Wrap-around Doors	2000	2006	52”	920-35-S105
CHEVROLET	Suburban	Wrap-around Doors	2007	2010	55”	920-35GM5
CHEVROLET	Tahoe	Wrap-around Doors	2000	2006	52”	920-35-S105
CHEVROLET	Tahoe	Wrap-around Doors	2007	2010	55”	920-35GM5
CHEVROLET	Trailblazer/Envoy	Wrap-around Doors	2002	2005	48”	920-35CTB
CHEVROLET	Trailblazer	Wrap-around Doors	2007	2010	51”	920-35-S105
CHEVROLET	Trucks		1980	1987		920-35C5
CHEVROLET	Trucks		1988	1994		920-35
CHEVROLET	Van (not Astro)	Standard Roof	1988	1995	65”	920-35
CHEVROLET	Van (not Astro)	Wrap-around Doors	1996	2002	65”	920-35INT
DODGE	Caravan/Grand Caravan	Standard Roof	1990	1995	59”	920-35C
DODGE	Charger	Wrap-around Doors	2005	2007	51”	920-35M1
DODGE	Charger	Wrap-around Doors	2008	2010	51”	920-35CH
DODGE	Dakota	Wrap-around Doors	1990	1996	48”	920-35GM2
DODGE	Dakota (Reg,Ext,Crew)	Wrap-around Doors	1997	2010	48”	920-35GM
DODGE	Dakota	Wrap-around Doors	2006	2006	48”	920-35F
DODGE	Durango	Wrap-around Doors	1996	2003	48”	920-35GM
DODGE	Durango	Wrap-around Doors	2004	2009	48”	920-35-S105
DODGE	Intrepid	Wrap-around Doors	1998	2004	46”	920-35GM
DODGE	Intrepid	Standard Roof	1993	1997	48”	920-35INT
DODGE	Magnum	Wrap-around Doors	2005	2008	51”	920-35M1
DODGE	Ram (Quad cab)	Wrap-around Doors	1999	2001	54.5”	920-35GM
DODGE	Ram		1991			920-35
DODGE	Ram		1995			920-35C
DODGE	Ram (Quad cab)	Wrap-around Doors	1999	2001	54.5”	920-35GM
DODGE	Ram (Quad cab)	Wrap-around Doors	2002	2005	54.5”	920-35RM2
DODGE	Ram pickup	Wrap-around Doors	1994	1998	54.5”	920-35CTB
DODGE	Ram pickup		1994	1998		920-35F
DODGE	Ram pickup (Crew)	Wrap-around Doors	2003	2007	48”	920-35RM5
DODGE	Ram pickup (Reg)	Wrap-around Doors	2003	2007	48”	920-35RM2
DODGE	Ram(1500,2500,3500)	Wrap-around Doors	2008	2010	57.5”	920-35RM3
DODGE	Ram pickup (Reg)	Wrap-around Doors	2003	2007	48”	920-35RM2
FORD	Bronco		1995			920-35F
FORD	Crown Victoria	Wrap-around Doors	1992	2008	46”	920-35CVLP
FORD	Crown Victoria	Wrap-around Doors	1988	1994		920-35C5
FORD	E-Series (Van)	Standard Roof	1987	2007	66”	920-35
FORD	Excursion		2000	2005	57”	920-35GM
FORD	Expedition	Wrap-around Doors	1997	2002	49”	920-35EX
FORD	Expedition	Wrap-around Doors	2003	2010	52”	920-35FT
FORD	Explorer	Wrap-around Doors	2000	2007	49”	920-35D
FORD	Explorer	Wrap-around Doors	2008	2010	51”	920-35D1
FORD	FreeStar	Wrap-around Doors	2005	2007	49.5”	920-35D
FORD	F-Series	Standard Roof	1987	1996	60.5”	920-35
FORD	F-Series	Wrap-around Doors	1997	1997	60.5”	920-35D
FORD	F-Series (150, 250)	Wrap-around Doors	1998	2001	53”	920-35D
FORD	F-Series(150/250,450,550)	Wrap-around Doors	2004	2005	57”	920-35F4
FORD	F-Series (150)	Wrap-around Doors	2007	2010	57”	920-35F1
FORD	F-Series (250, 350, 450)	Wrap-around Doors	2007	2010	58.5”	920-35F2
FORD	F-Series (250)		1991			920-35D
FORD	F-Series (250)		1991			920-35C
FORD	F-Series (250)	Wrap-around Doors	2002	2004	51.5”	920-35FT
FORD	F-Series(250,350,450,550)	Wrap-around Doors	1998	2005	57”	920-35GM
FORD	F-Series (350)		2000			920-35
FORD	LTD-Crown Vic	Standard Roof	1988	1991	51”	920-35
FORD	LTD-Crown Vic		1992	2010	46”	920-35CVLP
FORD	Mustang	Standard Roof	1988	1993	47”	920-35
FORD	Ranger	Standard Roof	1987	1992	52”	920-35
FORD	Ranger		1997			920-35
FORD	Ranger		1999	2000		920-35GM
FORD	Ranger	Wrap-around Doors	2002	2007	48.5”	920-35GM
FORD	Taurus	Wrap-around Doors	2001	2005	47”	920-35GM2
FORD	Van (Full size)		1987	2007	66”	920-35
FORD	Windstar	Wrap-around Doors	1999	2001	49”	920-35GM
GMC	Envoy	Wrap-around Doors	2002	2005	48”	920-35CTB
GMC	Jimmy (full size)	Standard Roof	1990	1991	59”	920-35
GMC	S10 Jimmy & pickup	Wrap-around Doors	1990	1993	47”	920-35GM2
GMC	Trucks		1988	1994		920-35GM
GMC	Trucks		1995	2000		920-35-S105
ISUZU	Delivery Truck Chassis		2000	2004		920-35IZ
JEEP	Jeep Cherokee	Standard Roof	1990	1994	53.5”	920-35
JEEP	Jeep Cherokee	Standard Roof	1995	2001	51.5”	920-35
JEEP	Jeep Grand Cherokee	Wrap-around Doors	1999	2004	48”	920-35GM
JEEP	Jeep Liberty	Wrap-around Doors	2002	2004	46”	920-35GM
PLYMOUTH	PT Cruiser	Wrap-around Doors	2001	2005	44”	920-35GM
PONTIAC	Grand Prix		1994			920-35GM
TOYOTA	Tundra		2004	2004		920-35F

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STAR WARNING SYSTEMS
Yes U.S.

Remote Power Supply Specifications

MODEL NUMBER		RP310D	RP310Q	RP242*	RP244*	RP966*	RP996*
POWER (WATTS)		24	24	40	75	60	90
AMPS	@ 12VDC	2.5	2.5	4.2	7.8	7.8	9.4
	@ 24VDC	1.3	1.3	2.1	3.9	3.1	4.7
JOULES†	PRIMARY	7.8	7.8	3.4	6.4	5.5	8.3
	SECONDARY 1	3.5	3.1	3.4	6.4	3.8	5.7
	SECONDARY 2	N/A	3.1	3.4	6.4	3.8	5.7
	SECONDARY 3	N/A	3.1	3.4	6.4	3.8	5.7
	SECONDARY 4	N/A	N/A	3.4	6.4	3.8	5.7
TOTAL OUTPUT (Joules)		11.3	17.1	17.0	31.9	20.7	31.1
ENERGY EFFICIENCY 80%		80%	80%	80%	80%	80%	75%
NUMBER OF OUTLETS		2	2	2	4	6	6
	Alternating	1 & 2	1 & 2	1 & 2	1&3,2&4	1&2,3&4,5&6	1&2,3&4,5&6
	Simultaneous	N/A	N/A	N/A	1&2,3&4	1,2,3,4,5,6	1,2,3,4,5,6
HIGH/LOW POWER OPTION		YES	YES	YES	YES	YES	YES
HEAD-SWITCHING OPTION		N/A	N/A	YES	YES	YES	YES
	SA=Alternating						
	SS-Simultaneous						
FUSE PROTECTED		N/A	N/A	YES	YES	YES	YES
FLASH RATE		512fpm	672fpm	705fpm	1410fpm	2610fpm	2610fpm
PATTERN SELECT		N/A	N/A	YES	YES	YES	YES
WEATHERPROOF		N/A	N/A	N/A	N/A	N/A	N/A
WEIGHT (lbs.)		1.0	1.0	1.5	1.5	1.3	1.3

*Specs listed are for the five flash pattern of these remote power supplies. Other patterns are customer selectable.
†One joule assimilates 100,000 candle power.
#All remote strobe paks are reverse polarity protected.

Cable Specifications For Remote Power Supplies

MODEL NUMBER	LENGTH	LIGHT-DUTY	HEAVY-DUTY	SHIELDED	CONNECTOR *PACK SIDE*	CONNECTOR *HEAD SIDE*
4415	15 ft.	X		X	AMP	AMP
4420	20 ft.	X		X	AMP	AMP
4425	25 ft.	X		X	AMP	AMP
4430	30 ft.	X		X	AMP	AMP
3814	specify*		X		AMP	WEATHERPROOF
3820	specify*	X			AMP	WEATHERPROOF
3821	specify*	X			AMP	AMP

*Available in 5' increments (10'-50')

AT-A-GLANCE SPECIFICATION CHART FOR BEACONS

Specification Chart

PAGE	WARNING LIGHTS	LENS COLORS	VOLTAGES	MOUNTING	CURRENT DRAW AMPS	OUTPUT	LBS.
LED BEACONS							
2	200AHL	A R B C G	12-24V DC	S (P)	0.6	SAE Class I	4
2	200AH8L	A R B C G	12-24V DC	S (P)	0.6	SAE Class I	4
2	200BHL	A R B C G	12-24V DC	P (S)	0.6	SAE Class I	4
2	200BH8L	A R B C G	12-24V DC	P (S)	0.6	SAE Class I	4
3	200CHL	A R B C G	12-24V DC	S	0.6	SAE Class I	4
3	200CH8L	A R B C G	12, 24V DC	S	0.6	SAE Class I	4
3	200SHL	A R B C G	12-24V DC	S (P,M)	0.6	SAE Class I	3
3	200SH8L	A R B C G	12-24V DC	S (P,M)	0.6	SAE Class I	3
4	240H8AL	A R B C G	12, 24V DC	S (P,M)	0.6	SAE Class I, CA Title 13	3
4	240HCL	A R B C G	12-24V DC	S (P,M)	0.6	SAE Class I	3
4	240H8CL	A R B C G	12-24V DC	S (P,M)	0.6	SAE Class I	3
4	240HSL	A R B C G	12-24V DC	S (P,M)	0.6	SAE Class II	2
4	240H8SL	A R B C G	12-24V DC	S (P,M)	0.6	SAE Class I	2
5	255H8TAL	A R B C G	12-24V DC	S (P,M)	0.6	SAE Class I, CA Title 13	3
5	255HTCL	A R B C G	12-24V DC	S (P,M)	0.6	SAE Class I	3
5	255HTSL	A R B C G	12-24V DC	S (P,M)	0.6	SAE Class II	2
6	200ZL	A	12-16V DC	S (P,M)	0.35	SAE Class III	2
6	201ZL	A	12-16V DC	S (P,M)	0.35	SAE Class III	2
6	203MVL	A	12-16V DC	S (P,M)	0.35	SAE Class III	1
6	204MVL	A	12-16V DC	S	0.35	SAE Class III	1
			STROBE BEACONS				
7	200A	A R B C G M	12, 24, 36, 48, 72V DC	S (P)	2.0	10	4
7	200AD,Q†	A R B C G M	12, 24V DC, 110/120V AC	S (P)	2.0	15.5, 17.6	4
7	200B	A R B C G M	12, 24, 36, 48, 72V DC, 110/120V AC,	P (S)	2.0	10	4
7	200BD,Q†	A R B C G M	12, 24V DC, 110/120V AC	P (S)	2.0	15.5, 17.6	4
7	200C	A R B C G M	12, 24, 36, 48, 72V DC	S	2.0	10	4
7	200CD,Q†	A R B C G M	12, 24V DC	S	2.0	15.5, 17.6	4
9	200S	A R B C G M	12, 24, 36, 48, 72V DC, 110/120V AC	S (P,M)	2.0	8	3
9	200SD,Q†	A R B C G M	12, 24V DC	S (P,M)	2.0	15.5, 17.6	3
12	200Z,Q	A R B C G M	12, 24, 36V DC, 110/120V AC	S (P,M)	.5	3, 3.75	2
12	201Z,Q	A R B C G M	12, 24, 36V DC, 110/120V AC	S (P,M)	.5	3, 3.75	2
13	203MV	A R B C G M	12V through 72V DC	S (P,M)	1.5	1.5	1
13	204MV	A R B C G M	12-110V DC	S	.5	1.75	1
11	211RQ	A R B C G M	12V DC	S (M)	.5	3.75	3
10	240C	A R B C G M	12, 24, 36-48V DC	S (P,M)	2.0	8	3
10	240CD,Q†	A R B C G M	12, 24V DC	S (P,M)	2.0	15.5, 17.6	3
10	240S	A R B C G M	12, 24, 36, 48V DC	S (P,M)	2.0	8	2
10	240SD,Q†	A R B C G M	12, 24V DC	S (P,M)	2.0	15.5, 17.6	2
11	241SFQ†	A R B C G M	12,24V DC	S (P,M)	2.0	17.6	2
10	242CL	A R B C G M	12V through 24V DC	S (P,M)	2.0	19.5	3
10	242SL	A R B C G M	12V through 24V DC	S (P,M)	2.0	19.5	2
8	250ADH,QH†	A R B C G M	12, 24V DC	S	3.2	23	5
8	250CH	A R B C G M	12, 24V DC	S	3.6	20	5
8	250CDH,QH†	A R B C G M	12, 24V DC	S	3.2	23	5
8	250SH	A R B C G M	12, 24V DC	S	3.6	20	5
8	250SDH,QH†	A R B C G M	12, 24V DC	S	3.2	23	5
8	255HTC	A R B C G M	12V through 24V DC	S (P,M)	2.0	19.5	3
9	255TC	A R B C G M	12V through 48V DC	S (P,M)	1.15	7, 10	3
9	255TS	A R B C G M	12V through 24V DC	S (P,M)	1.15	7, 10	2

†HIGH/LO Feature

Amber, Red, Blue
Clear, Green, Magenta

Current Draw Based on 12.8V DC unless otherwise noted
*Based on 110/120V AC

S=Permanent surface
P=Pipe M=Magnetic

Note: Not all models are listed in this section. Please refer to catalog pages for specifications not listed here.
All strobes are rated at a nominal 65 flash sequences per minute unless otherwise noted in catalog.

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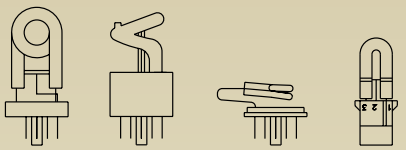
STAR WARNING SYSTEMS
Yes U.S.

Strobe Tubes



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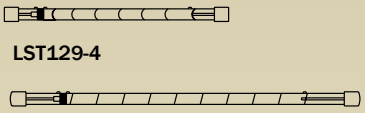

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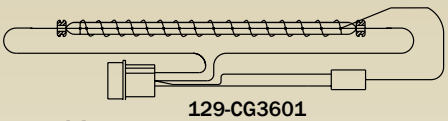

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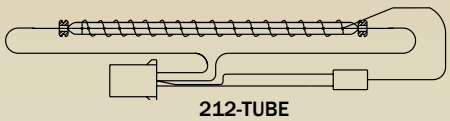

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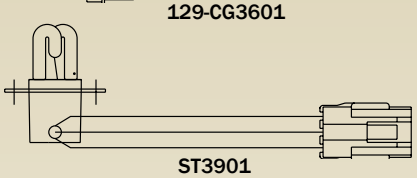

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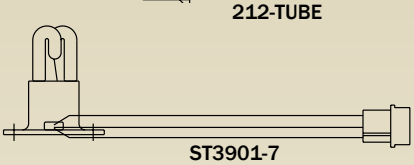

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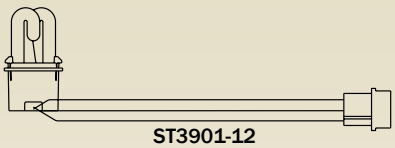

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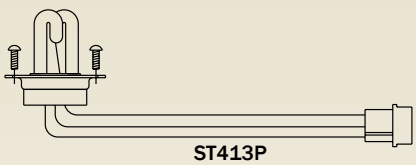

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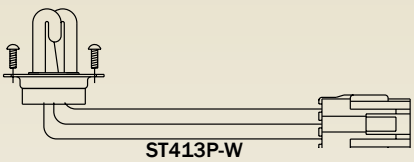

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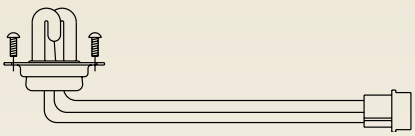

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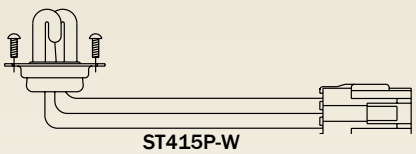

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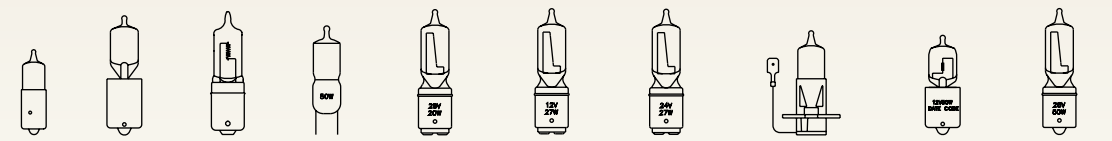
Bulbs



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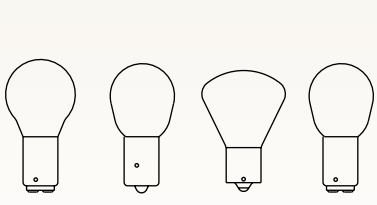

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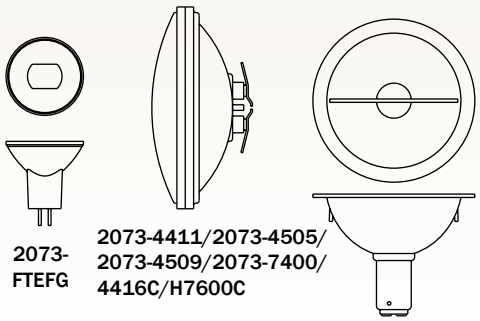

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