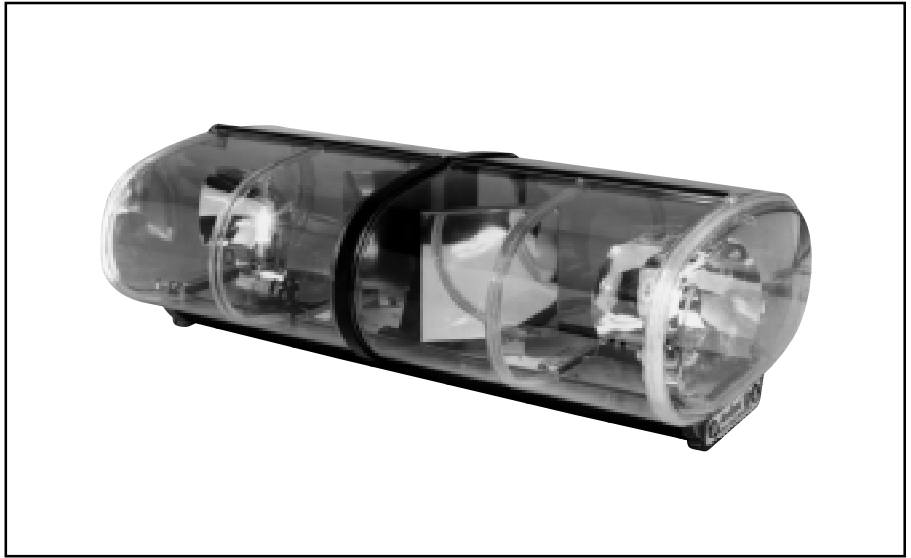


MODEL 22I AERODYNIC® MINI-LIGHTBAR

- Same top quality and design of the popular AeroDync® lightbar.
- Independent, motor-driven rotators.
- Durable, dependable.



The Model 22I offers you AeroDync lightbar quality with two independent rotator mechanisms for a dependable lighting system. This 22-inch mini-lightbar is frequently used in pairs on large emergency vehicles, such as fire apparatus, ambulances, and construction trucks. The Model 22I is also well suited for use on compact vehicles which require effective visual signalling capabilities.

Two 95 flash-per-minute rotators and two V-mirrors produce 380 flashes a minute. Each Model 22I dome section may be specified red, blue, amber, or clear for a multi- or solid-color signal.

Lighting Options

The Model 22I is specifically designed to provide you with an economical, dependable, and

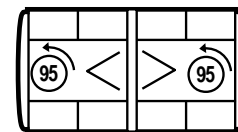
effective warning signal with optional features which can be added now or in the future. Add the model 22ISK for a steady beam of light to work by or for California steady burning red. The 22ISK consists of one stationary sealed beam lamp assembly and brackets. For an extra burst of oscillating light, retrofit with the Fast Meteor™ traffic clearing mechanism (model TCLF4).

Approvals

– All rotating lights meet Society of Automotive Engineers J845 and California Administrative Code, Title 13, Article 22 specifications.

How To Order

1. Order model.
22I (2) 95 FPM rotators and (2) V-mirrors, permanent mount
2. Specify dome panel colors (including endcaps). Red, Blue, Amber, Clear.
3. Order mount (not included).
22MK Magnetic mounting kit
22PK Permanent mounting kit
22HK-3 Hook-on mounting kit
4. Order optional kit.
22ISK (1) End lamp light
TCLF4 Fast Meteor traffic clearing light



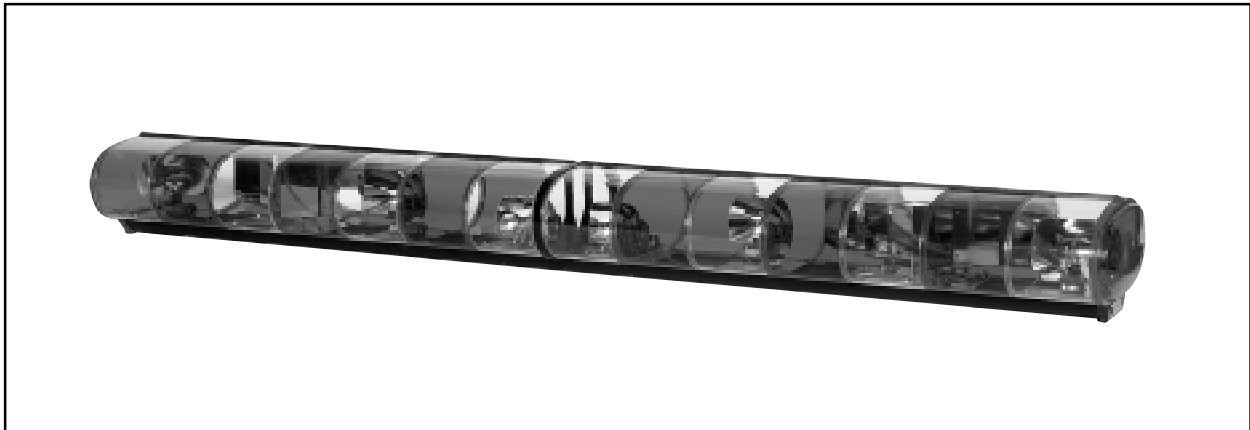
Model 22I

Specifications

Model	Volts	Flash Rate	Current Draw	Candelas	Length		Width		Height		Ship Weight	
					inches	cm	inches	cm	inches	cm	lbs	kg
22I	12.8	380	8.6 amps	72,000	22.4	57.0	12.1	30.6	7.3	18.5	16.0	7.3



AEROHAWK™ LIGHTBARS



AH1

- 72 inches of incredible light warning power.
- Total roof coverage – no “dead” spaces.
- Meteor™ traffic clearing light dominates the road with oscillating “M” light pattern.
- Long distance warning power.

The AeroHawk™ lightbar contains 72 inches of brute force light power! The bar brilliantly defines the parameters of your equipment, demanding attention from the vehicles in its path. It incorporates Federal's famous AeroDync® light-bar shape with the independently powered halogen rotators (95 FPM) of the innovative StreetHawk® lightbar. This combination provides you with a maximum warning power for even the largest of specialty vehicles, and is ideal for custom fire apparatus.

For added traffic-clearing reach, order the AeroHawk lightbar with a pair of our powerful Meteor traffic clearing oscillating lights (Model AH2).

AeroHawk models are also available with speaker housing. For more information, contact the factory.

How To Order

1. Order model.

AH1 (4) 95 FPM rotators per side, “V” shaped mirrors in center section, rear flashing and front flashing lights

AH2 (4) 95 FPM rotators per side, (2) Meteor traffic clearing lights in center section, rear flashing and front flashing lights

For models with speaker housing, contact the factory.

2. Specify dome color. (Red, Blue, Amber, or Clear)

With clear domes, order **SPL2**-color primary lens covers (one per rotator), red, blue, or amber.

3. Specify mounting.

24HK-3 Stainless steel.

24HK-4 Black finish.

24PK Permanent.

EBK-3 Extension bracket kit.

4. Order optional accessories.

CB1 Automatic reset circuit braker capable of handling up to 50 amps; provides additional vehicle protection against short circuits.

R1 Relay (SPST), 80 amp.

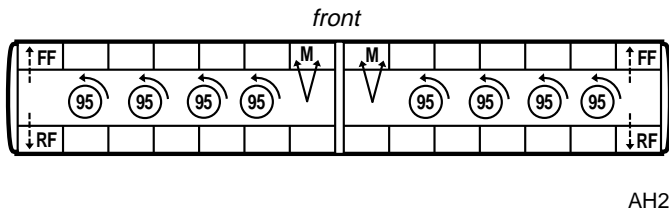
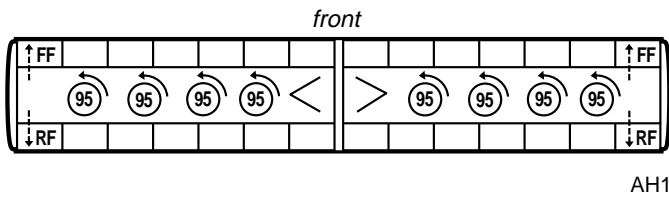
R2 Relay (SPST), 30 amp.

Technical Specifications

Model	Volt	Lamp Type	Watts per lamp	Flashing Lights	Total Amp Draw	Candelas per lamp	Primary Flash Rate
AH1	12	H1	55	18W	37.2 amps	80,000 (rot.)	950
AH2 Meteor	12 12	H1 795	55 50	18W	45.0 amps	80,000 (rot.) 40,000 (osc.)	760 Oscillates

Model	Length		Width		Height		Weight	
	inches	cm	inches	cm	inches	cm	lbs	kg
AeroHawk Series	72.0	182.9	12.1	30.7	7.3	18.5	38.0	17.3

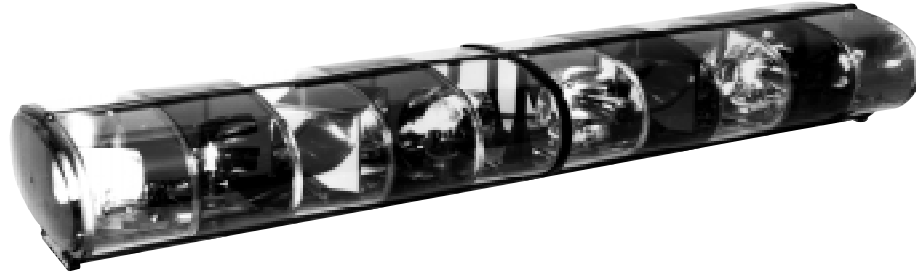
AeroHawk Lightbar Diagrams



Legend

- 95 FPM Rotator ("ROT")
- Meteor Light ("TCL")
- Front Flashing Light ("FF")
- Rear Flashing Light ("RF")
- V-Mirror ("VMIR")

AeroDync® INDEPENDENT MOTOR LIGHTBAR



- **80,000 Candela.**
- **Independent halogen rotators.**
- **Custom design flexibility.**
- **Low amperage draw.**
- **55 Watt halogen bulbs.**

The Independent AeroDync® lightbar with its unique design flexibility is an enhanced version of the proven AeroDync lightbar. Its innovative design delivers increased warning power with minimal amperage drain. With the AeroDync lightbar, you can design your bar to meet your specific requirements, and still have the fuel efficiency and top speed which have been AeroDync hallmarks.

Base Model

Custom design flexibility allows you to choose from 48" (121 cm) and 52" (134 cm) base models (with or without speaker housing). Choose from models with preselected options, or design your own lightbar using factory installed options. A wide variety of factory installed options are available to meet your warning needs.

Rotating Lights (25ROT-A/ 25FAST-A)

Each rotator unit contains a 55 watt halogen bulb with oversized reflector, and its own individual motor (95 Flashes Per Minute and 175 FPM available) for 80,000 candela of brilliant light output.

"V" Mirror (25VMIR-A)

The V mirror uses highly polished optics to minimize current drain, while also providing distinctive flash patterns. In some base units, space is available to allow two V mirrors to form a diamond shape for increased light output.

Meteor™ Traffic Clearing Light (TCLF25-A)

The Meteor™ Traffic Clearing Light provides crucial warning in areas such as intersections. Its "M" pattern moves both horizontally and vertically in a 59' x 27' signalling area to command the attention of traffic in front of the emergency vehicle.

Flashing Lights (25FF-A/25RF-A)

The alternating flash option produces effective directional warning power which reinforces your primary rotating lights. When mounted outboard, the perimeter of your emergency vehicle is clearly defined to oncoming traffic. The alternating flasher option includes (2) 35 watt halogen bulbs and a pair of Class "B" diffused reflectors. The reflectors provide a wide beam spread that can be seen off axis. Federal's highly reliable **FA3** flasher (included) produces 90 flashes per minute.

Takedown/Work Lights (25TD-A)

Each takedown/work light module provides a burst of white light to illuminate the scene. The takedown/work light option includes (1) reflector with a 50 watt halogen bulb.

Steady Burning (California Steady Burning Red Light) (25CAL-A)

The steady burning option, when used with a red lens, provides a steady red light to meet California Title 13 specifications. A diffused reflector and 50 watt halogen bulb are included.

Alley Lights (25A-A)

This option provides excellent side lighting at each end of the bar, to focus on your target. A pair of reflectors with 50 watt halogen bulbs are included.

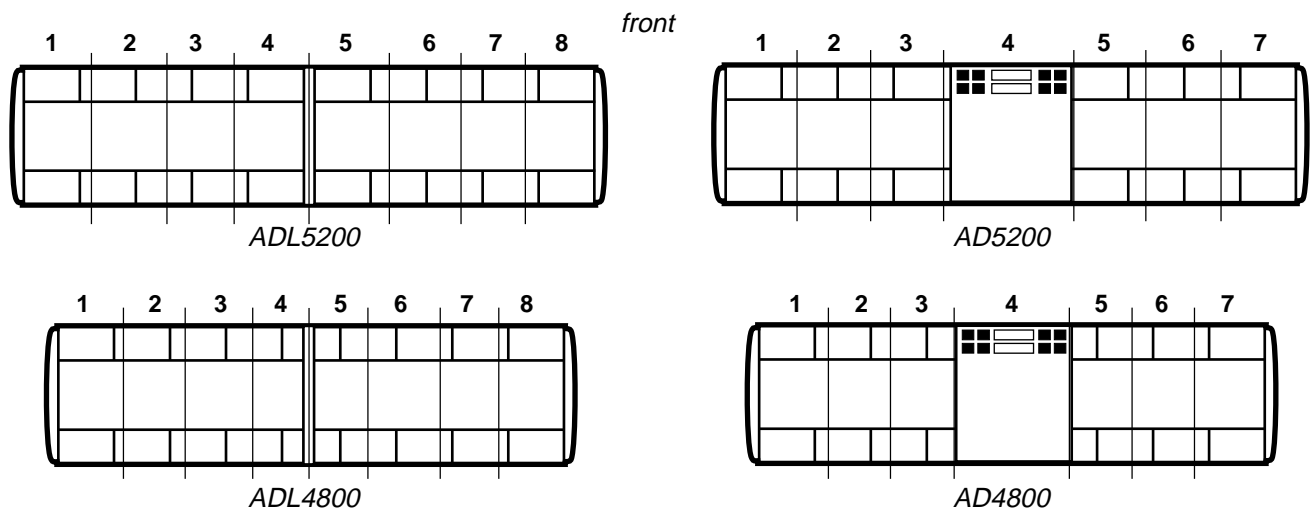
Domes

The Independent AeroDync lightbars continue to feature the high-strength Lexan polycarbonate domes available in four colors: Amber, Blue, Red, or Clear. Choose your own color combination to meet your specific needs.

Mounting

Hook-on and permanent mounting kits, as well as hook kits specially designed for today's gutterless vehicles are available. Refer to "How to Order" for model numbers and description.

AeroDync Lightbar Diagrams



AERODYNIC PRESELECT MODELS								
MODEL	OPT. SEC 1	OPT. SEC 2	OPT. SEC 3	OPT. SEC 4	OPT. SEC 5	OPT. SEC 6	OPT. SEC 7	OPT. SEC 8
no speaker housing:								
ADL5201	ROT	FMIR	FMIR	OPEN	OPEN	FMIR	FMIR	ROT
ADL5202	OPEN	ROT	FAST	ROT	ROT	FAST	ROT	OPEN
ADL5210	TD/AL/RF	ROT	FAST	ROT	ROT	FAST	ROT	TD/AL/RF
ADL5211	AL/FF/RF	ROT	FAST	OPEN	TD	FAST	ROT	AL/FF/RF
ADL5250	FF/RF	ROT	FAST	ROT	ROT	FAST	ROT	FF/RF
ADL5251	AL/FF/RF	ROT	FAST	ROT	ROT	FAST	ROT	AL/FF/RF
ADL5252	ROT	FAST	ROT	VMIR	VMIR	ROT	FAST	ROT
ADL5256	OPEN	ROT	FAST	TCL	TCL	FAST	ROT	OPEN
ADL5257	ROT	FAST	ROT	TCL	TCL	ROT	FAST	ROT
ADL5270	ROT	WL	FAST	VMIR	VMIR	FAST	WL	ROT
ADL5280	TD/AL/RF	ROT	FAST	ROT	ROT	FAST	ROT	CAL/AL/RF
ADL4801	ROT	VMIR	VMIR	FAST	FAST	VMIR	VMIR	ROT
ADL4810	TD/AL/RF	ROT	FAST	VMIR	VMIR	FAST	ROT	TD/AL/RF
ADL4880	TD/AL/RF	ROT	FAST	VMIR	VMIR	FAST	ROT	CAL/AL/RF
25RQL-FAST	ROT	FMIR	FMIR	FAST	FAST	FMIR	FMIR	ROT
25RQL-TCLF	ROT	FMIR	FMIR	TCL	TCL	FMIR	FMIR	ROT
25RQL-ST	ROT	FMIR	FMIR	OPEN	OPEN	FMIR	FMIR	ROT
25RWLI	FF/WL/BTT	OPEN	ROT	FMIR	FMIR	ROT	OPEN	FF/WL/BTT
25RWLI2	FF/WL/BTT	OPEN	ROT	FMIR	FMIR	ROT	OPEN	FF/WL/BTT
with speaker housing:								
AD4810	ROT	VMIR	FF/RF	HSG	FF/RF	VMIR	ROT	
AD4811	FF/RF	ROT	FAST	HSG	FAST	ROT	FF/RF	
AD4812	AL/FF/RF	ROT	FAST	HSG	FAST	ROT	AL/FF/RF	
AD4813	TD/RF	ROT	FAST	HSG	FAST	ROT	TD/RF	
AD4880	TD/RF	ROT	FAST	HSG	FAST	ROT	CAL/RF	
AD5210	TD/AL/RF	ROT	FAST	HSG	FAST	ROT	TD/AL/RF	
AD5211	FF/RF	ROT	FAST	HSG	FAST	ROT	FF/RF	
AD5212	AL/FF/RF	ROT	FAST	HSG	FAST	ROT	AL/FF/RF	

ABBREVIATIONS:

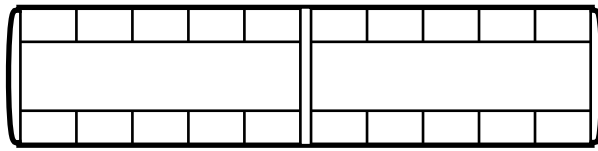
ROT Standard rotator, 95 FPM
 FAST Fast rotator, 175 FPM
 TD Takedown light
 AL Pair Alley lights

RF Rear flashing light
 FF Front flashing light
 TCL Meteor Traffic clearing light
 WL Work light (rear takedown)
 CAL California steady burning light

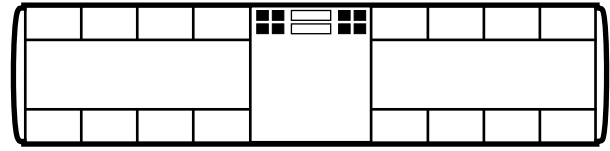
BTT Brake/turn/tail light
 HSG Speaker housing
 VMIR "V" mirror
 FMIR Cascade mirror

How To Order

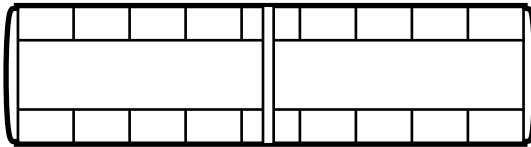
front



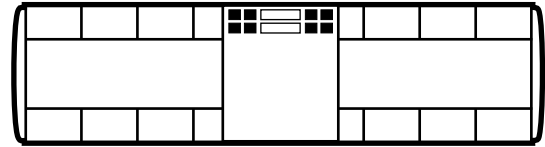
ADL5200



AD5200



ADL4800



AD4800

Use diagrams above as a key to option location, or to custom design an AeroDync lightbar.

1. Choose a "PreSelect" model with preselected options from the chart on page 2 (skip step #2), or choose a "Specify All Options" model, a base bar (from the four shown above), and specify all options to design your own lightbar.
2. Select factory assembled options (below) for "Specify All Options" bars, and specify location (see numbered diagrams on page 2).
3. Specify dome combination and color. Specify alley cut-outs for lightbars with alley lights.
4. Specify mounting kit (purchase separately).

Model	Assembled Options — Specify All Options
25A-A	(2) Alley lights
25CAL-A	(1) Steady burn light
25ROT-A	(1) 95 flash per minute (FPM) rotator assembly
25MED-A	(1) 120 FPM rotator assembly
25FAST-A	(1) 175 FPM rotator assembly
25FF-A	(2) Front flashing lights
25RF-A	(2) Rear flashing lights
25TD-A	(1) Takedown light
TCLF25-A	(1) Meteor light
TS100-A	100W speaker installed, for use in AD models
25VMIR-A	"V" mirror

UNHK	Hook-on mount, requires use of hook kit on gutterless vehicles, choose from models below or refer to the SL8 Price List.
HK-TAUR	Ford Taurus
HK-ASTR	Astro Van
HK-CP91	Chevy Caprice, 1991 & newer
HK-CV92	Ford Crown Victoria, 1992 & newer
HK-FE	Ford Explorer
HK-LUM	Chevy Lumina
HK-CK	Chevy CK Series Truck
UNPK	Permanent mount

TECHNICAL SPECIFICATIONS

OPTIONS	DESCRIPTION	VOLTS	LAMP TYPE	WATTS/ PRIM. LAMP	TOTAL CURRENT DRAW amps.	FLASH RATE /min.	CANDELA/ LAMP
TCLF25-A	Traffic Clearing Light	12	H	50	3.9	Osc.	40,000
25ROT-A	(1) Rotator Assy., Std.	12	H1	55	4.3	95	80,000
25FAST-A	(1) Rotator Assy., Fast	12	H1	55	4.3	175	80,000
25TD-A	(1) Work Light	12	H	50	3.9	—	47,000
25FF-A	(2) Flashing Lights, Front	12	H	35	2.7	90	6,000
25RF-A	(2) Flashing Lights, Rear	12	H	35	2.7	90	6,000
25CAL-A	(1) Steady Burning (Red)	12	H	50	3.9	—	10,000
25A-A	(2) Alley Lights	12	H	50	3.9	—	47,000

DIMENSIONS

MODEL NO.	DESCRIPTION	L inch (cm)	W inch (cm)	H inch (cm)	SHIP WT. lbs (kg)
ADL4800	48" AeroDyonic, All Light	47.6 (121)	12.1 (31)	7.3 (19)	29 (13)
ADL5200 / 25 Series	52" AeroDyonic, All Light	52.6 (134)	12.1 (31)	7.3 (19)	32 (14.5)
AD4800	48" AeroDyonic, Spkr Hsg	47.6 (121)	12.1 (31)	7.3 (19)	32 (14.5)
AD5200	52" AeroDyonic, Spkr Hsg	52.6 (134)	12.1 (31)	7.3 (19)	34 (15)

APPROVALS

- All rotating lights meet Society of Automotive Engineers (SAE) J845 specification.
- All flashing lights meet SAE J595 specification.
- "CAL" steady burn light meets California Automotive Code Class B specification.
- Brake/turn/tail lights meet SAE J186 specification.
- Marker strip (Models 25RWLI & 25RWLI2) meets SAE J592 and Federal Motor Vehicle Safety Standard 108.

FIELD UPGRADE KITS

AHRK	(1) 95 FPM Rotator Assembly for AD5201
AHRK-F	(1) 175 FPM Rotator Assembly for ADL5201
25AK	2 Lamp Alley Light Kit
25TDK	1 Lamp Takedown Light Kit
25FK	2 Lamp Flashing Light Kit
DKI	2 Lamp Directional Strobe Kit w/ strobe power supply
CB1	50 amp Circuit Breaker
R1	80 amp Relay
R2	30 amp Relay
PX7	(1) Case, 7 oz dome cleaner, 12 cans/case
PX13	(1) Case, 13 oz dome cleaner, 12 cans/case

REPLACEMENT PARTS

Rotating Bulb – all models: 8440A265A-01
 Flashing Bulb: 8548A028A
 Alley, Takedown, and TCL Bulb: 8107A119A
 Replacement Domes, passenger or driver's side–
 ADL4800: Contact factory
 ADL5200: 8542D168A, Specify color
 AD4800: 8542D217A, Specify color
 AD5200: 8542D032A, Specify color
 Rotator Assembly –
 ROT: AHRK
 FAST: AHRK-F
 Replacement Rotating Assembly Motors–
 All 95 FPM: 8559A055A
 All 175 FPM: 8559A055A-01
 Replacement Flasher: FA3



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Emergency Products

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