



EPL7300 MINI LIGHTBAR

EPL73M+(xx) - Magnet Mount

EPL73PD(xx) - Permanent Mount Low Bracket (shown)



WARNING

- HIGH CURRENT interconnects must be properly terminated. Poor crimp quality can cause heat build-up and fire. Follow the crimp connector manufacturer instructions.
- DO NOT install this product or route any wires in the Air Bag Deployment Zone. Refer to vehicle Owner's Manual for deployment zones.
- Do NOT use system to disconnect headlights, brake lights or other safety equipment.
- Unit may become hot to touch during normal operation.
- Failure to properly install connectors, fuses or wiring may cause vehicle failure or fire.
- Installation must only be performed by trained technician. Installer must determine vehicle wiring configuration and proper integration of system.
- Use proper wire gauge. All power wires connecting to positive (+) or negative (-) battery terminal or local chassis ground (-) must be sized to supply at least 125% of max. current and properly fused at power source.
- Install protective grommets when routing wire through firewall or metal.
- Petroleum/silicone based lubricants will cause the silicone lens to discolor.

DIMENSIONS / TECHNICAL SPECIFICATIONS 2

FLASH PATTERNS 2

PERMANENT MOUNT INSTALLATION / OPERATION . 3 - 4

MAGNET MOUNT INSTALLATION / OPERATION . . 5

ELECTRICAL INSTALLATION / SETUP TABLE 6 - 7

WARRANTY INFORMATION 8

WARNING

ROUTE WIRES ONLY IN LOCATIONS THAT ARE NOT SUBJECTED TO POTENTIAL WEAR. MAKE SURE TO AVOID ROUTING WIRES IN THE DEPLOYMENT AREA OF YOUR AIR BAG. REFER TO YOUR VEHICLE'S OWNER'S MANUAL FOR AIRBAG DEPLOYMENT ZONES.



Mini Pinnacle Product Page



1.800.338.7337 / www.soundoffsignal.com

NOTICE:

Installers and users must comply with all applicable federal, state and local laws regarding use and installation of warning devices. *Improper use or installation may void warranty coverage. To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product, visit our website at www.soundoffsignal.com/tech-services/returns/. If you have questions regarding this product, contact **Technical Services**, Monday - Friday, 8 a.m. to 5 p.m. ET at 1.800.338.7337 (press #4). Questions or comments that do not require immediate attention may be emailed to techservices@soundoffsignal.com.*

ENHANCING SAFETY THROUGH INNOVATION

DIMENSIONS / SPECIFICATIONS / FLASH PATTERNS: //**PERMANENT & MAGNET MOUNT W/ 12V-24V PLUG:**

TECHNICAL SPECIFICATIONS	
Overall Dimensions:	14.25"L x 8.27"W x 2.93"H
Flash Patterns:	17 flash patterns
Input Voltage Range:	12 - 24 Vdc
Current Consumption:	2 Amps (Avg) - 4 Amps (Max)
# of LEDs:	Single Color - 24 LEDS Dual Color - 48 LEDS
Operating Temperature:	-40° to +65° C
Cord Length:	12ft
SAE Class 1 Certified :	Amber, Blue, Red and White
SAE Class 3 Certified:	Green
CA Title 13 Certified:	Amber, Blue and Red

FLASH PATTERNS				
PATTERN #	SINGLE COLOR	DUAL COLOR	SAE COMPLIANT	CALIFORNIA TITLE 13 COMPLIANT
1	QUINT		X	
2	WARP			
3	INTER-CYCLE			
4	DOUBLE		X	
5	QUAD		X	
6	POWER PULSE		X	
7	ROAD RUNNER		X	X
8	Q-SWITCH		X (Single Color Only)	
9	STEADY-BURN / ROADRUNNER (SEQUENCE TYPE 1: STEADY BURN, SEQUENCE TYPE 2: ROADRUNNER)		X	X
10	STEADY-BURN DRIVER TITLE 13 QUAD (SEQUENCE TYPE 1: STEADY BURN, SEQUENCE TYPE 2: TITLE 13 QUAD)		X	X
11	QUAD 2		X	
12	DOUBLE 2		X	X
13	RANDOM 1			
14	RANDOM 2			
15	Cruise 3%			
16	Steady on 60%			
17	OFF			

PINNACLE MINI BAR PERMANENT MOUNT:

INSTALLATION:

1. Determine a clean, flat location (typically roof) on the vehicle to mount the PINNACLE Mini Lightbar. The PINNACLE Mini Lightbar comes with two (2) steel brackets which should be used to permanently mount the light bar to a vehicle roof or similar horizontal surface.
2. Position the bar with brackets attached and mark hole centers. Center punch or drill pilot holes for a 1/4" sheet metal screw (customer supplied).
3. Place a locking washer over the screw and securely fasten the brackets to the mounting surface. The screws and holes should be caulked with a silicone based material to prevent leakage. **DO NOT OVERTIGHTEN!**
4. Make electrical connections.

Caution: Do not install this product or route any wires in the air bag deployment zone. Refer to your vehicle Owner's Manual for the location of any air bag deployment zones.

FOLLOW DIAGRAM BELOW FOR ELECTRICAL CONNECTIONS

RED WIRE: MODE 1 - Connect through a switch and fuse to 12-24Vdc

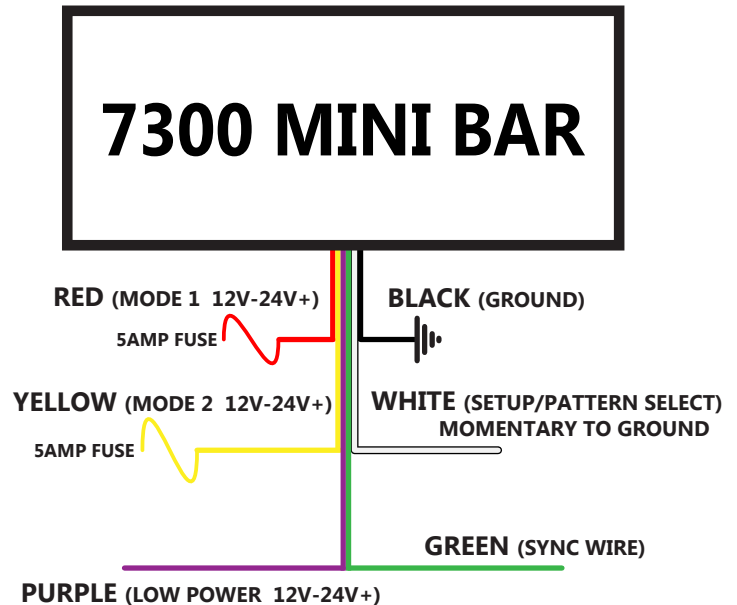
YELLOW WIRE: MODE 2 - Connect through a switch and fuse to 12-24Vdc

PURPLE WIRE: LOW POWER - Connect through a switch 12-24VDC

BLACK WIRE: GROUND - Connect to a good reliable ground (-)

WHITE WIRE: SETUP/PATTERN SELECT - Momentary, connect to ground (-)

GREEN WIRE: SYNC - Connect to other lights with a GREEN wire to Sync lights (Sync2 compatible lights only)



REPLACEMENT PARTS & ACCESSORIES

PMB3BKT - Replacement Permanent Mount Bracket (each)

PMB3BRKT - Replacement Permanent Mount Bracket (kit)

PMB3HBKT - Replacement Permanent Mount Bracket - High Mount (each)

PMB3HBRKT - Replacement Permanent Mount Bracket (kit) - High Mount

PMB3TD(x) - EPL7000 Replacement Domes

ELECTRICAL INSTALLATION / FUNCTION TABLE:

(Applies to permanent mounting option only)

Control Wires (Red & Yellow), & Ground Wire (Black):

- Connect the Red and Yellow wires of the lightbar to customer supplied switches fused at 5 Amps using 18 AWG type TXL wire.
 - Properly sized wiring is recommended for 125% of current draw and length of run.
 - It is recommended that the fuse is no longer than 2 ft. from the battery.
 - Do not use a circuit breaker or fusible link.
- Connect the Black Ground wire to a factory chassis ground. Recommended location would be near to the battery.

Low Power Wire (Purple):

- Connect the Purple wire to +12-24V to activate Low Power. At least one of the mode wires (Red / Yellow) must be activated for this function to work.

Sync Wire (Green):

- Connect the green wire to other Sync2 compatible products (mpower, nFORCE Secondary Light, & Intersector Lights. 5 wire only) which are on the vehicle and need to synchronize the flash pattern. All products with the green wires connected must be operating the same flash pattern otherwise incorrect flash pattern timing will occur.
- If synchronized flash patterns to other product are not required, blunt cut and tape the end of the green wire to ensure the wire is protected from being unintentionally grounded while in service.

Pattern Select/Configuration Wire (White):

- Applying a momentary ground on the white wire will configure the product. Refer to the Setup Table on page 7 for setup options.
- Once product is configured, blunt cut and tape the end of the white wire to ensure the wire is protected from being unintentionally grounded while in service and changing the configuration.

FUNCTION TABLE			
FUNCTION	WIRE	MINI BAR TYPE	DEFAULT SETTING
Mode 1 Activation	RED Wire - Positive	Single Color or Single Color Split Mini bar:	Flash Pattern 11 (QUAD2), Color Swap OFF, Sequence Type SIMULTANEOUS, Color Mode Color 1
		Dual Color or Dual Color Split Mini bar:	Flash Pattern 11 (QUAD2), Color Swap OFF, Sequence Type SIMULTANEOUS, Color Mode Color 1
Mode 2 Activation	YELLOW Wire - Positive	Single Color or Single Color Split Mini bar:	Flash Pattern 11 (QUAD2), Color Swap OFF, Sequence Type ALTERNATE, Color Mode Color 1
		Dual Color or Dual Color Split Mini bar:	Flash Pattern 16 (Steady ON), Color Swap OFF, Sequence Type SIMULTANEOUS, Color Mode Color 2
Mode 3 Activation	RED & YELLOW Wire - Positive	Single Color or Single Color Split Mini bar:	Flash Pattern 7 (ROAD RUNNER), Color Swap OFF, Sequence Type ALTERNATE, Color Mode Color 1
		Dual Color or Dual Color Split Mini bar:	Flash Pattern 16 (Steady ON), Color Swap OFF, Sequence Type SIMULTANEOUS, Color Mode Color 2
Low Power	PURPLE - Positive	Connect PURPLE wire to Power to activate Low Power. At least one of the Mode wires (RED / YELLOW) must be activated for this function to operate.	
Sync:	GREEN Wire connected with other Green Wires	Connect GREEN wires from up to 24 Sync2 compatible devices together. Each unit must be on the same pattern, but can be on a different phase.	
Setup/Pattern Select	WHITE Wire - Momentary to Ground	Momentarily Apply WHITE Wire TO Ground Wire for time identified to access each configurable setting (Page 7).	

ELECTRICAL INSTRUCTIONS

SETUP TABLE:

ADVANCE PATTERN

Flash pattern can only be changed when the light bar is in a flashing mode (disabled in cruise or steady ON functions). When the light is flashing, momentarily connect the white wire to ground for >250mS and <1S (light will go steady high) then release. The flash pattern will advance to the next pattern. If the light-bar was at the last pattern, the pattern will reset to the 1st pattern.

BACKUP PATTERN

This function is only valid when the light bar is in a flashing mode (disabled in cruise or steady ON functions). When the light bar is flashing, momentarily connect the white wire to ground for >1S and < 2S (light will go steady high, steady low) then release. The flash pattern will backup to the previous pattern. If the light bar was at the first pattern, the pattern will change to the last pattern on the list.

COLOR SWAP

This function is only valid for dual color light bars and can only be changed when the light bar is in a flashing mode (disabled for single color light bar and when light bar is operating in cruise or steady ON functions). When the light bar is flashing, momentarily connect the white wire to ground for >2S and <3S (light bar will go steady high, steady low, off) then release. The light bar will switch between Color Swap OFF and Color Swap ON. When Color Swap is OFF, the 1st color will flash 1st on a dual color pattern. When Color Swap is ON, the 2nd color will flash 1st on a dual color pattern.

SIMULTANEOUS/ALTERNATE/SPLIT

This function can only be changed when the light bar is in a flashing mode and only has an effect when at least 2 light bars have the green sync wire connected together. When the light bar is flashing, momentarily connect the white wire to ground for >3S and <4S (light bar will go steady high, steady low, off, steady high) then release. The light bar will switch between Simultaneous, Alternate and Split each time this sequence is done. To have light bars flash simultaneously, both light bars need to be set to the same sequence type (Set-Up Table). To have light bars flash alternately, the light bars need to be set to different sequence types (Set-Up Table).

COLOR MODE:

This function is only valid for dual color light bars and can only be changed when the light bar is in a flashing mode (disabled for single color light bar and when light bar is operating in cruise or steady ON functions). When the light bar is flashing, momentarily connect the white wire to ground for >4S and <5S (light bar will go steady high, steady low, off, steady high, steady low) then release. The activated function wire/s will switch between Color 1, Color 2 and Color 1&2. When Color 1&2, the flashing will follow the dual color pattern rules on Function Table.

PATTERN RESET

This function is only valid when the light bar is in a flashing mode (disabled in cruise or steady ON functions). When the light bar is flashing, momentarily connect the white wire to ground for >5S and <6S (light will go steady high, steady low, off, steady high, steady low, off) then release. The flash pattern will reset to the 1st pattern in the list.

FACTORY RESET

This function is only valid when the light bar is in a flashing mode (disabled in cruise or steady ON functions). When the light bar is flashing, momentarily connect the white wire to ground for >6S and <7S (light will go steady high, steady low, off, steady high, steady low, off, steady high) then release. The light bar will reset to: pattern=1, Color Swap=OFF, Simultaneous. All warning modes will reset to default settings.

SETUP TABLE ON NEXT PAGE (7)

WARRANTY & RETURN GOODS PROCEDURE



CLEANING & CARE OF YOUR LIGHTBAR:

Keeping the lenses clean and scratch free will optimize the performance of the lightbar. The exterior of the lightbar including lenses should be cleaned with mild soapy water and a soft cotton cloth to remove dirt, grime and insects. Never use window cleaners or harsh chemicals on the lenses; this may cause failure of the lenses or reduce clarity resulting in the reduction of light output.

MOUNTING INTEGRITY:

A review of bolt/hardware/mounting bracket integrity should be performed at the beginning and end of each shift.

WARNING MESSAGES - PLEASE READ:

WARNING - DRILLING ANY HOLES INTO THE LIGHTBAR IS NOT RECOMMENDED! THE RISK OF DAMAGING INTERNAL COMPONENTS AND THE RESULTING FAILURE OF THE LIGHTBAR WILL VOID ANY WARRANTY OF THIS PRODUCT.

WARNING - CARE MUST BE TAKEN WHEN DRILLING THROUGH THE ROOF OF THE VEHICLE NOT TO DRILL INTO ANY EXISTING WIRING AND NOT TO DRILL THROUGH THE HEADLINER OR SUPPORT MEMBERS OF THE VEHICLE. CHECK BOTH SIDES OF THE MOUNTING SERVICE PRIOR TO DRILLING. DE-BURR ANY HOLES AND REMOVE ANY METAL SHARDS OR REMNANTS. INSTALL GROMMETS INTO ALL WIRE PASSAGE HOLES.

WARNING - ROUTE WIRES ONLY IN LOCATIONS THAT ARE NOT SUBJECTED TO POTENTIAL WEAR. MAKE SURE TO AVOID ROUTING WIRES IN THE DEPLOYMENT AREA OF YOUR AIR BAG. REFER TO YOUR VEHICLE OWNER'S MANUAL FOR AIR BAG DEPLOYMENT ZONES.

WARNING - ALL CUSTOMER SUPPLIED POWER WIRES CONNECTING TO THE POSITIVE (+) OR NEGATIVE (-) BATTERY TERMINAL OR LOCAL CHASSIS GROUND (-) MUST BE SIZED TO SUPPLY AT LEAST 125% OF THE MAXIMUM CURRENT AND PROPERLY FUSED AT THE POWER SOURCE WITH APPROPRIATELY RATED FUSE.

IMPORTANT: When passing cables through fire wall or other sheet metal, insert grommet to protect the cable!

WARRANTY RETURN PROCESS:

Please scan QR code or visit
<https://soundoffsignal.com/support-page/returns/>

Alternatively contact your SoundOff Signal Sales Representative, Customer Services staff or our Technical Department (800.338.7337) for a RMA #, Return Merchandise Authorization Number.

The following information is required for issuance of the RMA #:

- Reason for returning the product*
- Address where replacement product is to be shipped*
- Telephone number where you may be reached*
- SoundOff Signal invoice number on which product was purchased**
- SoundOff Signal part number and serial number**
- E-mail address where RMA # should be e-mailed**
- Fax number where RMA # should be faxed**

* RMA # will not be given without this information.

** If available, please provide this information.

SoundOff Signal will NOT accept returns without an RMA #. Each RMA # is good for only one (1) return and will expire (30) days after the date it was issued. Products must be shipped back to SoundOff Signal and the RMA # clearly marked on the outside of the package near the shipping label. Please use the following address on your shipping label:

SoundOff Signal
 ATTN: RMA # / Technical Services
 3900 Central Parkway
 Hudsonville, MI 49426

WARRANTY EXCLUSIONS:

Shipping & Handling, labor and service fees are non-refundable. SoundOff Signal is not liable for any damage due to installation or personal injury as a result of using SoundOff Signal product.

WARRANTY FORFEITURE:

Warranty will not be granted if the Warranty Return Policy & Procedure rules are not strictly followed. Physical damage resulting from customer abuse will void warranty. Warranty will also be voided if any SoundOff Signal and/or manufacturer serial tags, product stickers, seals, or the like, are removed, altered or tampered with. Returned product that is damaged by shipping via the RMA # procedure is not the responsibility of SoundOff Signal.

Document effective date on cover and below supersedes previously dated policies and statements.

There are no other warranties, expressed or implied, including, but not limited to, any implied merchantability or fitness for a particular use. SoundOff Signal reserves the right to modify this warranty statement at any time; or to discontinue, modify, or upgrade any products of its manufacture with design improvements without prior notice.