DPS 2010-01

EMERGENCY VEHICLE LIGHTBAR – 4 LAMP

1.00 LED LIGHTBAR

1.01 The main structure of the lightbar must be a two-piece extruded aluminum top and bottom. Lightbars with plastic/polycarbonate tops are not acceptable. The lightbar shall house all electronic components. The lightbar shall measure a maximum of 2.55 inches high x 12 inches wide x 50 inches long excluding mounting brackets. The lightbar must have Hi/Low power control of all LED modules.

1.02 The lightbar shall contain one (1) control module I/O board, which shall contain all the electronics required to operate all internal lightheads.

1.03 The lightbar shall have a combination of:Four (4) corner Linear Super-LED lamps (2 Blue / 2 Blue) and options as listed below.

1.04 Each I/O card shall produce a minimum flash rate of 75 Comet® flashes per minute. There shall be twelve (12) Scan Lock flash patterns to choose from. Each pair of LED lamps must be capable of activating independently of each other. The I/O Card shall drive the Linear Super-Led lightheads offering Hi/Low capabilities. The Halogen Lightheads shall operate from the I/O board allowing the takedowns and alleys to both steady burn and flash, and permitting the alleys to have individual controlling. The Traffic Advisor will only require two (2) wire control (no control head) when operated from the I/O board. The Linear Super-Led corners will be capable of a cruise light application. The lights will remain activated at a low power level, producing a cruise light mode.

1.05 The lightbar's primary warning shall have a maximum of four (4) linear LED modules [1 in each corner] that meets SAE Class 1 requirements. The lightbar shall have linear LED modules in the four corners. Each Linear12 corner module shall consist of a minimum of twelve (12) Super-LED's permanently mounted within a single "removable" highly mirrored parabolic reflector. The twelve (12) LED's shall be mounted in a straight line and have a single diffuser panel mounted in front of them.

1.06 The I/O module shall be 100% solid state with built-in reverse-polarity protection and output-short protection. They shall operate from 10-16 VDC with no degradation in flash rate, and shall operate through a temperature range of -30 degrees Celsius to 60 degrees Celsius. The lightbar shall be designed to have up to eight (8) lamps to the front, eight (8) lamps to the rear, and one (1) on each end. Each lamp module position shall have a choice of five (5) single-layer colored lens sections, independent of the others. The lenses shall be constructed of polycarbonate with built-in spreader optics and a horizontal non-fluted strip across the center of each lens for maximum light output at the "zero" H-V point. The LED panel must be mounted within the lightbar.

1.07 The lightbar shall have two (2) Linear12's 1 Blue/ 1 Blue; to the front and two (2) Linear 12's 1 Blue / 1 Blue to the rear. The lightbar shall also contain Lightbar Options listed below.

1.08 The lightbar must utilize lenses that slide into a track and are held in place by two end caps that secure to the lightbar via four screws each. The outer lens color shall be Clear. Color outer lenses must be available as an *option*.

1.09 The lightbar shall contain a mounting kit to adapt the lightbar to most late model vehicles.

2.0 LIGHTBAR OPTIONS

2.01 The lightbar shall contain ten (10) inboard Linear Super-LEDs. Four (4) blue Linear Super LED's to the front and six (6) Linear Super LED's to the rear. All inboard linear LED panels shall be the same design, as the corner Linear LED modules described above and shall contain a minimum of six (6) Super LED's. Each rear inboard Linear Super LED modules shall contain three (3) blue LED's and three (3) amber LED's which may be operated independently or simultaneously. When operated independently, the amber LED's will have the capability of providing directional traffic advisor function. All inboard light heads must be a 500 Series whether LED or halogen. All LED modules must produce a minimum 180-degree light pattern.

2.02 Takedown Lights
The lightbar shall contain two (2) LR11 Series LED lamps that must allow for steady burn, as well as flashing takedowns. The two (2) LR11 series LED lamps shall come "ON" together as take-downs or alternately flash, and must be controlled by the lightbar's I/O board.

2.03 Alley Lights
The lightbar shall contain two (2) LR11 LED lamps (one on each end of the lightbar) that must allow for independent control of each lamp in a steady burn mode. The two (2) LR11 LED lamps shall also flash and must be controlled by the lightbars I/O board.

DPS 2010-02

SELF-CONTAINED SURFACE MOUNT DIRECTIONAL LED HEAD ASSEMBLIES

1.0 DESIGN

1.1 The directional head assembly shall be supplied with a black surface mount adaptor flange to allow the unit to mount to any flat surface.

1.2 The lighthead assembly shall measure a maximum of 7 inches long x 2.5 inches high with the mounting flange.

1.3 The directional head assembly must have a LIN6 LED panel which contains a maximum of six (6) individual Super-LEDs (Generation 3.5) in a straight row with a diffuser panel in front of it to provide considerable light at a 90 degree angle. The unit shall draw no more than .5 amps.

1.4 There must be four (4) wires exiting the unit, one for each of the following: Power, Ground, ScanLock and Synchronize. The ScanLock wire will allow a choice of twenty-five (25) flash patterns including steady burn. When using multiple lightheads, the synchronized wires are attached to alternate Phase 1 and Phase 2 patterns. The unit will have a non-volatile memory and stay in the pattern selected.

1.5 The lens must be made of clear polycarbonate and must have a smooth non-optic outer lens to insure maximum light output.

DPS 2010-03

SUPER-LED DUAL DASH LIGHT

1.00 AVENGER DASH LIGHT:

1.01 The Dash Light assemblies shall have two (2) Linear9 Super-LED modules (side by side), each of which contains a minimum of nine (9) Super-LEDs (Generation 3.5) that are mounted in a straight line in a single highly polished reflector which must have a diffuser panel in front of it to provide considerable light at a 90° angle. Each lighthead shall contain its own clear outer lens, and the lightheads shall be mounted in a black polycarbonate housing for long life and durability. The unit will be mounted inside the passenger compartment. The unit must be supplied with a bail mounting bracket to allow the unit to be mounted to the windshield (via suction cups), dash, deck or headliner of the vehicle. The unit shall draw less than .5 amps and have a minimum 10 ft. cord with cigarette lighter plug that must include an On/Off switch and LED "On" indicator and a Scan Lock switch for pattern selection, all on the end of the cigar plug.

1.2 There shall be a total of thirty-four (34) flash patterns to choose from using a button located on the cigar plug. The unit will have a non-volatile memory and stay in the pattern selected until changed by the operator.

1.3 The Dash Light assembly shall measure a maximum of 9-3/4 inches long x 1-3/4 inches high, and 2-1/4 inches deep without the shroud (5-1/2 inches deep x 2 inches high with the shroud). The Dash Light housing must be molded polycarbonate with rounded corners.

1.4 The unit must be supplied standard with a hood (also constructed of a polycarbonate material) with stick-on chrome.

1.5 The outer lens shall be made of clear polycarbonate for stealth look. When the unit is off, it shall appear clear; when turned on, only then will the unit reflect a color.

DPS 2010-04

LED HIDE AWAY LIGHTHEAD

1.00 The lighthead must be designed with a minimum of six (6) Super-LEDs mounted to a flat board. This LED board must be mounted to an aluminum base designed for thermal heat management. The unit must be designed to mount into a 1" hole in a composite type headlight and taillight and allow for easy upgrading of existing strobe Hide-A-Ways to LED. The base must be sealed to a hemispheric lens to provide weather resistance. The lens must be frosted for enhanced light output and spread. The unit must be no greater than 7/8" high by 1-1/2" diameter including the mounting flange. The lamp must be available in Amber, Blue, White or Red.

1.01 The unit must be supplied with a minimum of a four conductor, 22 gauge neoprene cable that is a minimum of 9' in length. This cable shall include an inline lamp driver that is completely encapsulated for. The four wires must allow for power, ground, Scan-Lock flash pattern, and synchronization features. There must be a minimum of 25 Scan-Lock flash patterns to choose from, including patterns that allow multiple lights to operate as a system by alternating or simultaneously flashing multiple lightheads in a sequence.

1.02 An optional black or chrome surface mount flange shall be available. Lightheads that do no offer this option are unacceptable.

1.03 The unit must be extremely quiet and must meet SAE J1113-41 Class 5 for RFI/EMI noise emitted.

DPS 2010-05

DIRECTIONAL WARNING LIGHT – 4 PANEL

1.00 **BASIC STRUCTURAL DESIGN:**

1.01 The device shall be housed in a heavy-duty extruded aluminum housing with a clear smooth outer lens for stealth look. The unit must utilize water-proof connectors and be designed to be used as an interior or exterior light. The unit shall appear to be void of color until the Super-LED's are turned on.

1.02 The device shall be approximately 14.21 inches in length, 1.74 inches in height, and 2.17inches in width.

2.00 **WARNING LAMP MODULES:**

2.01 The device shall contain four (4) Super-LED panels, blue in color. Each panel shall utilize high intensity *Generation 3.5* Super-LED's (Light Emitting Diodes) and must be replaceable by sliding the units into the channel of the extrusion for ease of maintenance. These LED's shall have a life expectancy of at least 100,000 hours. Each LED panel shall utilize a maximum of three (3) Super-LED's, for a total of twelve (12) Super-LED's per unit.

2.02 Each lighthead shall measure 3.6 inches long x 1.3 inches high and must contain a maximum of three (3) individual Super-LED's (*Generation 3.5*) in a straight row.

2.03 The maximum average amperage draw in any mode shall be no more than .56 amps at 12.8 volts DC, per lamp.

2.04 The unit shall include a 4-conductor, 22-gauge pigtail that exits the end of the unit. The wires are dedicated for Power, Ground, Scan-Lock and Synchronization. There must be seven (7) Scan-Lock Flash Patterns to choose from. Four of the seven must be capable of synchronizing together. These four are: Signal Alert, CometFlash, Single Flash 375 and Single Flash75. Each of these patterns can be programmed for alternating, in-out, checker board, simultaneous phase1 or simultaneous phase2. The other three patterns are: Action Flash, Modu Flash and Action Scan.

3.00 **OPTIONS:**

3.01 The following three mounting options must be available:

1) Suction cup mounting bracket with cigar plug, kit.
2) Swivel mounting bracket, kit.
3) "L" mounting bracket, kit.

DPS 2010-06

DIRECTIONAL WARNING LIGHT – 6 PANEL

1.00 **BASIC STRUCTURAL DESIGN:**

1.01 The device shall be housed in heavy-duty extruded aluminum housing with a clear smooth outer lens for. The unit must utilize water-proof connectors and be designed to be

used as an interior or exterior light. The unit shall appear to be void of color until the Super-LED's are turned on.

1.02 The device shall be approximately 23.26 inches in length, 1.74 inches in height, and 2.17 inches in width.

2.00 **WARNING LAMP MODULES:**

2.01 The device shall contain six (6) Super-LED panels, blue in Color. Each panel shall utilize high intensity *Generation 3.5* Super-LED's (Light Emitting Diodes) and must be replaceable by sliding the units into the channel of the extrusion for ease of maintenance. These LED's shall have a life expectancy of at least 100,000 hours. Each LED panel shall utilize a maximum of three (3) Super-LED's, for a total of eighteen (18) Super-LED's per unit.

2.02 Each lighthead shall measure 3.6 inches long x 1.3 inches high and must contain a maximum of three (3) individual Super-LED's (*Generation 3.5*) in a straight row.

2.03 The maximum average amperage draw in any mode shall be no more than .56 amps at 12.8 volts DC, per lamp.

2.04 The unit shall include a 4-conductor, 22-gauge pigtail that exits the end of the unit. The wires are dedicated for Power, Ground, Scan-Lock and Synchronization. There must be seven (7) Scan-Lock Flash Patterns to choose from. Four of the seven must be capable of synchronizing together. These four are: Signal Alert, CometFlash, Single Flash 375 and Single Flash75. Each of these patterns can be programmed for alternating, in-out, checker board, simultaneous phase1 or simultaneous phase2. The other three patterns are: Action Flash, Modu Flash and Action Scan.

3.00 **OPTIONS:**

3.01 An "L" mounting bracket, kit must be available.

DPS 2010-07

DIRECTIONAL WARNING LIGHT – 8 PANEL

1.00 **BASIC STRUCTURAL DESIGN:**

1.01 The device shall be housed in a heavy-duty extruded aluminum housing with a clear smooth outer lens for. The unit must utilize water-proof connectors and be designed to be used as an interior or exterior light. The unit shall appear to be void of color until the Super-LED's are turned on.

1.02 The device shall be a maximum of 28 inches in length, 1.74 inches in height, and 2.17 inches in width.

2.00 **WARNING LAMP MODULES:**

2.01 The device shall contain eight (8) Super-LED panels, blue in Color. Each panel shall utilize high intensity *Generation 3.5* Super-LED's (Light Emitting Diodes) and must be replaceable by sliding the units into the channel of the extrusion for ease of maintenance. These LED's shall have a life expectancy of at least 100,000 hours. Each LED panel shall utilize a maximum of three (3) Super-LED's, for a total of twenty-four (24) Super-LED's per unit.

2.02 Each lighthead shall measure 3.6 inches long x 1.3 inches high and must contain a maximum of three (3) individual Super-LED's (*Generation 3.5*) in a straight row.

2.03 The maximum average amperage draw in any mode shall be no more than .56 amps at 12.8 volts DC, per lamp.

2.04 The unit shall include a 4-conductor, 22-gauge pigtail that exits the end of the unit. The wires are dedicated for Power, Ground, Scan-Lock and Synchronization. There must be seven (7) Scan-Lock Flash Patterns to choose from. Four of the seven must be capable of synchronizing together. These four are: Signal Alert, CometFlash, Single Flash 375 and Single Flash75. Each of these patterns can be programmed for alternating, in-out, checker board, simultaneous phase1 or simultaneous phase2. The other three patterns are: Action Flash, Modu Flash and Action Scan.

3.00 **OPTIONS:**

3.01 An "L" mounting bracket, kit must be available.

DPS 2010-08

LED DODGE "CHARGER"FOG LIGHT MOUNT LIGHTHEAD

1.00 The lighthead as Super-LED blue lighthead, with mounting bracket, designed to easily retrofit into the DODGE *Charger* fog light placement.

1.01 The lamp assembly shall contain a maximum of six Super-LEDs that are encapsulated for moisture and vibration resistance. The six Super-LEDs must be of Generation 3.5 for maximum light output as well as light spread. The six Super-LEDs must be mounted in a circle pattern and utilize a round internal reflector that pipes the light throughout the assembly, for a full light effect.

1.02 The lighthead must have Scan-Lock flash patterns and a synchronize feature via an external wire/connection. This must allow for multiple units (up to eight) to flash simultaneously or alternately. Each of the five patterns shall have a Phase 1 and Phase 2. When using multiple lightheads, the synchronized wires are attached to alternate Phase 1 and Phase 2 patterns. The unit will have a non-volatile memory and stay in the pattern selected. Each light must have an extended lens that protrudes out a minimum of 1-1/8 inch from the LED assembly.

1.03 The lighthead, less mounting bracket, shall be approximately 4.4 inches in diameter x 2.2 inches deep, and weigh 6 ounces. It must be supplied with a 6 inch pigtail and mounting that allows the unit to be inserted into the DODGE *Charger* fog light shroud.

1.04 The lens must have built-in optics for maximum light spread and shall be made of impact-resistance polycarbonate. The lens color shall be clear and shall be in accordance with SAE requirements.

DPS 2010-09

LED INTERIOR LIGHTBAR-4 PANEL

1.00 BASIC STRUCTURAL DESIGN:

1.01 The device shall be housed in two individual heavy duty polycarbonate housing with a clear outer lens for stealth look. Both units shall appear to be void of color until the Super-LED's are turned on. Each unit must be supplied with mounting brackets for mounting in a 2007-2009 CHEVY *Tahoe* or *Suburban*, one on the driver side, the other on the passenger side of the vehicle, and will be designed to fit snuggly to the windshield.

2.00 WARNING LAMP MODULES:

2.01 Each housing shall contain four (4) Super-LED panels. Each LED must be a high intensity *Generation 3.5* Super-LED's (Light Emitting Diodes). Each housing must have four (4) lamps facing straight out of the housing and one (1) Super-LED take-down light mounted in the inboard position. These LEDs shall have a life expectancy of at least 100,000 hours. Each LED segment shall utilize a maximum of three (3) Super-LED's.

2.02 Each lighthead lens shall cover a maximum of three (3) individual Super-LED's (*Generation 3.5*) that are mounted in a straight row and have a life expectancy of at least 100,000 hours. Each unit shall have a linear lens on the outermost outboard position and must alternate sequentially with a TIR lens as you move toward the inboard position. Spare TIR and linear lenses must be provided.

2.03 The maximum amperage draw in any mode shall be no more than .25 amps at 12.8 volts DC.

2.04 Each unit must include one (1) Super-LED take-down light, with flashing and steady-burn capability, located on the innermost inboard position.

2.05 The two-piece Inner Edge shall be connected by an interconnect cable connecting the driver side unit to the passenger side unit. The P.S. unit shall have a 9 conductor, 18 gauge, 20 foot jacketed cable that allows or control of warning lights, Scan-Lock (24 flash patterns to choose from), synchronization feature, take-down lights, flashing take- down, and low power.

DPS 2010-10

SUPER-LED DIRECTIONAL LIGHTHEAD SYSTEM

1.00 WARNING LIGHTS

1.01 The system must contain a minimum of two (2) LINZ6s (1 Blue/1 Blue). Each directional head assembly shall be supplied with an aluminum mounting plate and a black flange as standard and will be completely sealed. The unit must be designed to mount to any flat surface.

1.02 Each lighthead assembly shall measure a maximum 4 inches long x 1-5/8 inch protrusion, x 2 inches high with the mounting flange.

1.03 Each directional head assembly shall have a Linear6 LED panel which contains a maximum of six (6) individual Super-LEDs (Generation 3.5) in a straight row that have a life expectancy of at least 100,000 hours. The panel must be completely encapsulated. The unit shall draw no more than .5 amps.

1.04 There must be four (4) wires exiting each unit, one for each of the following: Power, Ground, ScanLock and Synchronize. The ScanLock wire will allow a choice of sixty-nine (69) flash patterns including steady burn. Each light must have eight patterns that allow for alternating or simultaneous flash of each color segment (3x3). When using multiple lightheads, the synchronized wires are attached to alternate Phase 1 and Phase 2 patterns. The unit will have a non-volatile memory and stay in the pattern selected.

1.05 The lens must be made of clear polycarbonate and must have a smooth non-optic outer lens to insure maximum light output.

1.06 Each light must be supplied with an "L" style universal mounting bracket. Each bracket shall measure 3.75 inches long x 2.18 inches high x 1 inch deep; made of aluminum and powder-coated in black.

DPS 2010-11

SELF-CONTAINED SURFACE MOUNT DIRECTIONAL TIR3-LED HEAD ASSEMBLY

1.0 **DESIGN**

1.1 The self-contained directional LED head assembly shall be supplied with an aluminum mounting plate and a black flange as standard and will be completely sealed for long life and durability. The unit must be designed to mount to any flat surface.

1.2 The lighthead assembly shall measure a maximum 3.6 inches long x 1.3 inch protrusion, x 1.3 inches high with the mounting flange.

1.3 The directional head assembly shall have an TIR3 LED panel which contains a maximum of three (3) individual Blue Super-LEDs (Generation 3.5) in a straight row that have a life expectancy of at least 100,000 hours. The panel shall contain ballast and TIR lens, and shall be mounted to an aluminum base. The unit shall draw no more than .25 amps.

1.4 There must be four (4) wires exiting the unit to turn the unit, one for each of the following: Power, Ground, ScanLock and Synchronize. The ScanLock wire will allow a choice of five flash pattern and steady burn. Each of the five patterns shall have a Phase 1 and Phase 2. When using multiple lightheads, the synchronized wires are attached to alternate Phase 1 and Phase 2 patterns. The unit will have a non-volatile memory and stay in the pattern selected.

1.5 The lens must be made of clear polycarbonate and must have a smooth outer lens with built-in optics to insure maximum light output.

1.6 The head assembly shall come complete with a built-in flasher and with all standard mounting hardware and brackets to mount the unit to any flat surface.

DPS 2010-12

FOUR STROBE LIGHT REMOTE SYSTEM

1.0 *STROBE POWER SUPPLY*:

1.1 The strobe power supply shall be designed with the latest solid-state circuitry, no moving parts, and will incorporate design features for maximum vibration resistance. This includes weather-resistant materials and assembly techniques to withstand a range of temperature or environmental conditions.

1.2 The strobe power supply shall have a minimum of six output outlets, each using 3-pin Amp Mate-N-Lock connectors. It shall also have two other 3-pin connectors, one for input power, and the other for outlet switching capability.

1.3 The overall dimensions shall measure no more than 6-5/8 inches long x 5-3/4 inches wide x 2-1/2 inches high. The strobe power supply shall also weigh no more than 2 lbs.

1.4 The overall output power rating must be a minimum of 90 watts, total (115 watts input power). The strobe power supply shall be 12 volts DC, and operate through the range of 10-16 volts DC. Maximum current draw shall be 9 amps at 13.5 volts.

1.5 The strobe power supply shall have RFI suppression circuit(s) built-in/hardwired within the electronic assembly.

1.6 The strobe power supply must have output short protection.

1.7 The strobe power supply must be capable of ten (10) flash patterns. These flash patterns must be selected by a single wire, positive activation allowing the user to toggle through all nine patterns. The unit shall have non-volatile memory so when the unit is turned "off" and "on", it always returns to the last pattern selected. The default pattern if no other pattern is chosen shall be a high energy envelope (burst) of four pulses per burst to each remote strobe head, at a minimum flash rate of 70 burst per minute (per outlet). Each burst must consist of only four pulses and the interval between pulses compressed to no more than 85 milliseconds apart.

1.8 The multiple pulse timing sequence must substantially increase the overall effective visual "on-time" of each burst of pulses to 60% (on) and decrease the "dark time" or "off time" to 40% (off).

2.0 *REMOTE CONCEALED STROBE HEADS*

2.1 The system shall include four (4) flange-mounted strobe lamp assemblies that have a 1-1/2 turn helix-shaped tube that mounts into a black polycarbonate base, and will come complete with a 3-conductor 15 ft. shielded cable harness.

2.2 The base shall be designed for easy mounting into a 1 inch hole inside a "composite-style" headlight or tail light assembly. The unit must have two (2) screw holes on the flange to secure the flash tube assembly to the housing.

2.3 The trigger transformer shall be built into the polycarbonate base, fully epoxy sealed.

2.4 All strobe lamps shall be supplied in "clear" and shall be designed to work in conjunction with the above-referenced power supply.

DPS 2010-13

ULTRA SLIM PROFILE DASH LIGHT

1.1 Super-LED Lamp Panels. Attaches to the windshield with suction cup mounting swivel bracket or permanently.
1.2 20 selectable flash patterns. On/Off and pattern select switches are located on the back of assembly.
1.3 Cigarette plug and 8 font card.
1.4 Color LED available in blue, white, amber, or red.
1.5 Must come with an optional bail bracket for permanent mounting.
1.6 Size 2" H x 1-3/16" L.

DPS 2010-14

THREE LAMP LINEAR LED INNER WINDSHIELD LIGHT

1.1 Three super bright Linear-LED modules in a smaller housing that fits snugly against the upper front windshield of a Ford Crown Victoria or a Dodge Charger.
1.2 Must be available in all colors of blue, red, clear, and amber.
1.3 Size 2-3/4" H X 7-1/8" W X 18: L.

DPS 2010-15

SIREN SPEAKER - 100W

1.1 Siren speaker, narrow, high performance, multi-port 100 watt speaker.
1.2 Installs to vehicles' cross member.
1.3 Black cast aluminum or nylon composite housing.
1.4 OSHA 1910.95 compliant.
1.5 Must come with mounting bracket.

DPS 2010-16

MOTORCYCLE WINDSHIELD LED LIGHT ARRAY

1.1 Motorcycle windshield LED light array.
1.2 Built with rugged steel bracket and custom matched high impact plastic housing that fits snugly to the fairing of the motorcycle.
1.3 5 LIN 3 light leeds.
1.4 Custom lens/color configuration.
1.5 Each LED module is encapsulated and uses a water proof connector.
1.6 Arc design sweeps lights across the front and angles to the side of the motorcycle for 180 degree
1.7 visibility.
1.8 Must fit Harley Davidson motorcycle and come with all mounting brackets.
1.9 Color: Light Blue

DPS 2010-17

MOTORCYCLE SIDE SADDLE LIGHT MOUNTING BRACKET – SIDE CRASHBAR MOUNT

1.1 Mounting Bracket for motorcycle side saddle bag.
1.2 Must fit Harley Davidson motorcycle.
1.3 Bracket mounts to side of crash bar and holds 2 TIR3 or LIN3 light heads.

DPS 2010-18

MOTORCYCLE SIDE SADDLE LIGHT MOUNTING BRACKET – REAR CRASHBAR MOUNT

1.1 Mounting Bracket for motorcycle side saddle bag.
1.2 Must fit Harley Davidson motorcycle.
1.3 Bracket mounts to rear of crash bar and holds 2 TIR 3 or LIN 3 light heads. .

DPS 2010-19

MOTORCYCLE WINDSHIELD/FORKS MOUNTING BRACKET

1.1 Mounting Bracket for motorcycle windshield or forks.
1.2 Must fit Harley Davidson motorcycle.
1.3 Holds 1 TIR 3 or LIN 3 light head.

DPS 2010-20

PUSH BUMPER - FORD CROWN VICTORIA

1.1 29" wide X 23" tall for added protection and driver visibility.
1.2 ¼" HRS (hot rolled steel) uprights.
1.3 ¼" HRS No drilling required, bumper bracket assembly.
1.4 ½" thick by 2" wide high impact, rubber pads.
1.5 2" X .070" thick top cross tube.
1.6 6" wide X 29" across by .100" thick surface for mounting lights and or speakers.
1.7 Welded one piece construction
1.8 Durable semi gloss black powder coal finish (2 ½ - 3 mill thickness.)
1.9 Black Zinc mounting hardware
1.10 Drilling to any part of the frame or bumper is not required.

DPS 2010-21

GRILLE GUARD – CHEVROLET TAHOE/SUBURBAN

1.0 Push Bumper:
1.1 Cold Rolled Mild Steel Tubing
1.2 1 ½" OD X 16 ga.
1.3 1 7/8" OD X 16 ga.
1.4 2 ½" OD X 16 ga.
1.5 3/8" Round Mild Steel

2.0 Plate: ¼" Mild Steel Sheet

2.1 Finish: Black powder coat plus Zinc phosphate
2.2 Resign Type: Polyester
2.3 Color: Black 314-04
2.4 Gloss: (60 degree): 30-39%
2.5 Thickness: 1.75 minimum Surface A
2.6 Corrosion Test: 500 hrs. Salt Spray Chamber

3.0 Brackets:

3.1 Material: HRPO ¼" THICKNESS, VARIOUS GUAGES.
3.2 Finish: Black powder coat
3.3 Resign Type: Polyester
3.4 Color: Black 314-04
3.5 Gloss: (60 degree): 30-39%
3.6 Thickness: 1.75 minimum Surface A
3.7 Hardware: Zinc Electroplating 96 Hrs. Salt Spray Test
38 Box: 250 lb/in 2
39 Installation: All no drilling applications.
40 Must fit Chevrolet Tahoe and Suburban Vehicles

DPS 2010-22

GRILLE GUARD – DODGE CHARGER

1.1 33 ½" wide by 24" tall for added protection and driver visibility.
1.2 ¼" HRS (hot rolled steel) uprights
1.3 ¼" HRS No drilling, Mounting Bracket System
1.4 ½" thick by 2" wide high impact, replaceable rubber trim
1.5 2" by .070" thick round tubular upper cross support
1.6 5" wide X 31 ½" across by.100" thick center support for mounting lights and or speakers
1.7 Durable semi gloss black powder coat finish.(2 ½ 3 mill thickness.)
   1. Black zinc-mounting hardware
   2. East install no cutting of exterior bumper fascia or drilling mounting bracket system
1.8 Must fit Dodge Charger

DPS 2010-23

VEHICLE PARTITION (Crown Victoria)

1. SCOPE AND CLASSIFICATION

1.1 This specification describes a vehicle partition designed for use in full and mid-sized passenger cars, vans, and utility vehicles. The partition shall provide an actual physical barrier to prevent the back seat occupants from having access to front seat personnel.

2. BRAND IDENTIFICATION

2.1 All products furnished with regard to this specification shall bear the manufacturers identification and lot number /model number labels.

3. CONSTRUCTION / OPERATION

DESIGN: A. Framework, Main

Roll bar style tubing framework is manufactured from 1-5/8" OD structural steel tubing with the nominal wall thickness of .140". The tubing that serves as the structural support shall be formed to have a 14-degree bend, which follows the contour of the front seat. Framework has steel tabs welded to tubing to allow mounting of side panels and upper support brackets for installation into vehicle. The tubing is covered with minimum ½" foam padding to help protect occupants of vehicle from injury.

B. Framework, Window

Window framework is heavy duty steel and aluminum mounted to a steel framework.

C. Partition Support Brackets

The center pillar (mounting Brackets) is constructed of 1/8" Cold Rolled Steel. The brackets must be of 2 or 3 pieces per side of vehicle. They must bolt together to form a "C" clamp around the center (or "B") pillar of the vehicle. The attachment of the center pillar brackets must not require the drilling of any holes or cutting of any trim on the vehicle

a. "B" pillar brackets are constructed from 11 gauge steel powder coated to match partition finish
b. Flat Support Brackets are constructed from 14 gauge steel, powder coated to match partition finish.
c. Mounting Feet are constructed from 7 gauge tube steel, with 1/8" wall and 1-1/4" O.D. Finsh to match partition.

D. Seat Back Protector (Guard Plate)

Full width guard plate is manufactured of 14-gauge steel and welded securely to tubular framework.

E. Side Filler Panels

Filler panels will be manufactured from ¼" clear polymer material and thermal formed to closely follow the contour of the vehicle doors and windows. No sharp edges on panels.

F. Floor Mounting Brackets

Floor mounting brackets are angled to allow partition to roughly follow the front seat back angle for maximum room. Spacers are provided to conform the partition height to the specific vehicle. Floor brackets are held in place by 1/8" formed brackets that is attached to the brackets with bolts at one end and to the front seat rail mount bolt.

G. Window Configuration

Center Sliding window.

H. Miscellaneous Hardware and instructions

All necessary hardware and instructions for installation and operation are provided.

I. Finish

Framework and seat back protector is finished with environmentally approved charcoal gray electro-deposited powder coated paint applied in a consistent thickness of .0003 to .0005 mils. The finish is oven baked at a temperature of 325 to 400 degrees F.

J. Optional Bucket Seat Protector

An optional bucket seat protector is available to fit over the transmission hump to further deny access to the front seat area. Seat protector is manufactured from 14 gauge steel plate coated with the same paint as the partition. Two sizes are available the short width (20") or the full width model (47"). The protectors are angled forward at the bottom to provide foot room for the passenger or prisoner.

K. Knockout Panel for Recessed Panel

Steel panel will be removable to allow for optional recessed panel to be installed using existing holes. (no metal cut)

L. Optional Recessed Panel

Optional recessed panel constructed of 14-gauge steel, powder coated to match partition finish. Recessed panel will bolt to existing holes on partition for a no holes drilled, no trim cut installation.

M. Optional Dual Vertical Gun Rack

Optional dual vertical gun rack constructed of steel. Electric 8-second timer and momentary switch included. Gun rack will mount to partition with a no holes drilled installation, and be positioned into the recessed panel at an angle to allow for clearance of the headliner.

DPS 2010-24

VEHICLE PARTITION (Impala)

1. SCOPE AND CLASSIFICATION

1.1 This specification describes a vehicle partition designed for use in full and mid-sized passenger cars, vans, and utility vehicles. The partition shall provide an actual physical barrier to prevent the back seat occupants from having access to front seat personnel.

2 BRAND IDENTIFICATION

2.1 All products furnished with regard to this specification shall bear the manufacturers identification and lot number /model number labels.

3. CONSTRUCTION / OPERATION

DESIGN: A. Framework, Main

Roll bar style tubing framework is manufactured from 1-5/8" OD structural steel tubing with the nominal wall thickness of .140". The tubing that serves as the structural support shall be formed to have a 14-degree bend, which follows the contour of the front seat. Framework has steel tabs welded to tubing to allow mounting of side panels and upper support brackets for installation into vehicle. The tubing is covered with minimum ½" foam padding to help protect occupants of vehicle from injury.

B. Framework, Window

Window framework is heavy duty steel and aluminum mounted to a steel framework.

C. Partition Support Brackets

Support brackets are mounted to vehicles "B" pillars to support (suspend) partition between "B" pillars.

a. "B" pillar brackets are constructed from 11 gauge steel powder coated to match partition finish
b. Flat Support Brackets are constructed from 14 gauge steel, powder coated to match partition finish
c. Mounting Feet are constructed from 7 gauge tube steel, with 1/8" wall and 1-1/4" O.D. Finish to match partition.

D. Seat Back Protector (Guard Plate)

Full width guard plate is manufactured of 14-gauge steel and welded securely to tubular framework.

E. Side Filler Panels

Filler panels will be manufactured from ¼" clear polymer material and thermal formed to closely follow the contour of the vehicle doors and windows. No sharp edges on panels.

F. Floor Mounting Brackets

Floor mounting brackets are angled to allow partition to roughly follow the front seat back angle for maximum room. Spacers are provided to conform the partition height to the specific vehicle. Floor brackets are held in place by 1/8" formed brackets that is attached to the brackets with bolts at one end and to the front seat rail mount bolt.

G. Window Configuration

Center Sliding window.

H. Miscellaneous Hardware and instructions

All necessary hardware and instructions for installation and operation are provided.

I. Finish

Framework and seat back protector is finished with environmentally approved charcoal gray electro-deposited powder coated paint applied in a consistent thickness of .0003 to .0005 mils. The finish is oven baked at a temperature of 325 to 400 degrees F.

J. Optional Bucket Seat Protector

An optional bucket seat protector is available to fit over the transmission hump to further deny access to the front seat area. Seat protector is manufactured from 14 gauge steel plate coated with the same paint as the partition. Two sizes are available the short width (20") or the full width model (47"). The protectors are angled forward at the bottom to provide foot room for the passenger or prisoner.

K. Knockout Panel for Recessed Panel

Steel panel will be removable to allow for optional recessed panel to be installed using existing holes. (no metal cut)

L. Optional Recessed Panel

Optional recessed panel constructed of 14-gauge steel, powder coated to match partition finish. Recessed panel will bolt to existing holes on partition for a no holes drilled, no trim cut installation.

M. Optional Dual Vertical Gun Rack

Optional dual vertical gun rack constructed of steel. Electric 8-second timer and momentary switch included. Gun rack will mount to partition with a no holes drilled installation, and be positioned into the recessed panel at an angle to allow for clearance of the headliner.

DPS 2010-25

VEHICLE PARTITION(Dodge Charger)

1. SCOPE AND CLASSIFICATION

1.1 This specification describes a vehicle partition designed for use in full and mid-sized passenger cars, vans, and utility vehicles. The partition shall provide an actual physical barrier to prevent the back seat occupants from having access to front seat personnel.

2 BRAND IDENTIFICATION

2.1 All products furnished with regard to this specification shall bear the manufacturers identification and lot number /model number labels.

3. CONSTRUCTION / OPERATION

DESIGN: A. Framework, Main

Roll bar style tubing framework is manufactured from 1-5/8" OD structural steel tubing with the nominal wall thickness of .140". The tubing that serves as the structural support shall be formed to have a 14-degree bend, which follows the contour of the front seat. Framework has steel tabs welded to tubing to allow mounting of side panels and upper support brackets for installation into vehicle. The tubing is covered with minimum ½" foam padding to help protect occupants of vehicle from injury.

B. Framework, Window

Window framework is heavy duty steel and aluminum mounted to a steel framework.

C. Partition Support Brackets

Support brackets are mounted to vehicles "B" pillars to support (suspend) partition between "B" pillars.

a. "B" pillar brackets are constructed from 11 gauge steel powder coated to match partition finish
b. Flat Support Brackets are constructed from 14 gauge steel, powder coated to match partition finish

c. Mounting Feet are constructed from 7 gauge tube steel, with 1/8" wall and 1-1/4" O.D. Finish to match partition.

D. Seat Back Protector (Guard Plate)

Full width guard plate is manufactured of 14-gauge steel and welded securely to tubular framework.

E. Side Filler Panels

Filler panels will be manufactured from ¼" clear polymer material and thermal formed to closely follow the contour of the vehicle doors and windows. No sharp edges on panels.

F. Floor Mounting Brackets

Floor mounting brackets are angled to allow partition to roughly follow the front seat back angle for maximum room. Spacers are provided to conform the partition height to the specific vehicle. Floor brackets are held in place by 1/8" formed brackets that is attached to the brackets with bolts at one end and to the front seat rail mount bolt.

G. Window Configuration

Center Sliding window.

H. Miscellaneous Hardware and instructions

All necessary hardware and instructions for installation and operation are provided.

I. Finish

Framework and seat back protector is finished with environmentally approved charcoal gray electro-deposited powder coated paint applied in a consistent thickness of .0003 to .0005 mils. The finish is oven baked at a temperature of 325 to 400 degrees F.

J. Optional Bucket Seat Protector

An optional bucket seat protector is available to fit over the transmission hump to further deny access to the front seat area. Seat protector is manufactured from 14 gauge steel plate coated with the same paint as the partition. Two sizes are available the short width (20") or the full width model (47"). The protectors are angled forward at the bottom to provide foot room for the passenger or prisoner.

K. Knockout Panel for Recessed Panel

Steel panel will be removable to allow for optional recessed panel to be installed using existing holes. (no metal cut)

L. Optional Recessed Panel

Optional recessed panel constructed of 14-gauge steel, powder coated to match partition finish. Recessed panel will bolt to existing holes on partition for a no holes drilled, no trim cut installation.

M. Optional Dual Vertical Gun Rack

Optional dual vertical gun rack constructed of steel. Electric 8-second timer and momentary switch included. Gun rack will mount to partition with a no holes drilled installation, and be positioned into the recessed panel at an angle to allow for clearance of the headliner.

DPS 2010-26

CENTER CONSOLE – CHEVROLET TAHOE

1.1 Enclosed center console.
1.2 30" total mounting space with vehicle mount.
1.3 Includes filler plates and equipment brackets.
1.4 Standard wire knockout covers in front end panel of console can be removed to provide wiring of mounted equipment.
1.5 Console to include mounting base, track and internal accessory box.
1.6 13" H X 9.5" Deep X 8-5/8" W
1.7 Must fit Chevrolet Tahoe.

DPS 2010-27

CENTER CONSOLE – DODGE CHARGER

1.1 Console Center Mount
1.2 24 inch. 8" max depth at rear and 4.75" min at front of the console.
1.3 Includes filler plates, equipment brackets, arm rest and cup holder.
1.4 Must fit Dodge Charger.

DPS 2010-28

LED INTERIOR LIGHTBAR-4 PANEL

1.00 **BASIC STRUCTURAL DESIGN:**

1.01 The device shall be housed in two individual heavy duty polycarbonate housing with a clear outer lens for stealth look. Both units shall appear to be void of color until the Super-LED's are turned on. Each unit must be supplied with mounting brackets for mounting in a Dodge Charger, one on the driver side, the other on the passenger side of the vehicle, and will be designed to fit snuggly to the windshield.

2.00 **WARNING LAMP MODULES:**

2.01 Each housing shall contain four (4) Super-LED panels. Each LED must be a high intensity *Generation 3.5* Super-LED's (Light Emitting Diodes). Each housing must have four (4) lamps facing straight out of the housing and one (1) Super-LED take-down light mounted in the inboard position. These LEDs shall have a life expectancy of at least 100,000 hours. Each LED segment shall utilize a maximum of three (3) Super-LED's.

2.02 Each lighthead lens shall cover a maximum of three (3) individual Super-LED's (*Generation 3.5*) that are mounted in a straight row and have a life expectancy of at least 100,000 hours. Each unit shall have a linear lens on the outermost outboard position and must alternate sequentially with a TIR lens as you move toward the inboard position. Spare TIR and linear lenses must be provided.

2.03 The maximum amperage draw in any mode shall be no more than .25 amps at 12.8 volts DC.

2.04 Each unit must include one (1) Super-LED take-down light, with flashing and steady-burn capability, located on the innermost inboard position.

2.05 The two-piece Inner Edge shall be connected by an interconnect cable connecting the driver side unit to the passenger side unit. The P.S. unit shall have a 9 conductor, 18 gauge, 20 foot jacketed cable that allows or control of warning lights, Scan-Lock (24 flash patterns to choose from), synchronization feature, take-down lights, flashing take- down, and low power.

DPS 2010-29

LED INTERIOR LIGHTBAR-4 PANEL

1.00 **BASIC STRUCTURAL DESIGN:**

1.01 The device shall be housed in two individual heavy duty polycarbonate housing with a clear outer lens for stealth look. Both units shall appear to be void of color until the Super-LED's are turned on. Each unit must be supplied with mounting brackets for mounting in a Ford Expedition, one

on the driver side, the other on the passenger side of the vehicle, and will be designed to fit snuggly to the windshield.

2.00 **WARNING LAMP MODULES:**

2.01 Each housing shall contain four (4) Super-LED panels. Each LED must be a high intensity *Generation 3.5* Super-LED's (Light Emitting Diodes). Each housing must have four (4) lamps facing straight out of the housing and one (1) Super-LED take-down light mounted in the inboard position. These LEDs shall have a life expectancy of at least 100,000 hours. Each LED segment shall utilize a maximum of three (3) Super-LED's.

2.02 Each lighthead lens shall cover a maximum of three (3) individual Super-LED's (*Generation 3.5*) that are mounted in a straight row and have a life expectancy of at least 100,000 hours. Each unit shall have a linear lens on the outermost outboard position and must alternate sequentially with a TIR lens as you move toward the inboard position. Spare TIR and linear lenses must be provided.

2.03 The maximum amperage draw in any mode shall be no more than .25 amps at 12.8 volts DC.

2.04 Each unit must include one (1) Super-LED take-down light, with flashing and steady-burn capability, located on the innermost inboard position.

2.05 The two-piece Inner Edge shall be connected by an interconnect cable connecting the driver side unit to the passenger side unit. The P.S. unit shall have a 9 conductor, 18 gauge, 20 foot jacketed cable that allows or control of warning lights, Scan-Lock (24 flash patterns to choose from), synchronization feature, take-down lights, flashing take- down, and low power.

DPS 2010-30

REAR FACING INNER DECK LIGHT

1.1 Rear facing inner deck light.
1.2 8 blue lights with split amber traffic advisor.
1.3 Installation method to use the existing child-restraint brackets without drilling holes.
1.4 Must come with all mounting brackets.

DPS 2010-31

LIGHT AND SIREN CONTROLLER

1.1 Electronic siren and light controller with 9 individually programmable switches and hard-wired microphone. 19 scan-lock siren tones
1.2 Must be compatible with 100W Siren speaker bid on Line 00040
1.3 Each of 6 pushbuttons activates on 10 amp output. Slide switch activates 20 amp circuit and should have the capability to be wired, via a dip switch, to control a 3 position program pattern. 6th position button should be able to be dipswitch set for momentary, 8 second timer, latch-on/latch-off, or flasher modes.
1.4 Must control most standard current applications such as strobe power supplies, headlight and brake light flashers.
1.5 Must have feature to disable siren tone when vehicle is in park.
1.6 Timed-out relay for shotgun lock, trunk lock, etc. and California tones.
1.7 Control head: 3 5/16"H x 6"W x 7"D, Weight: 4.5 lbs