

Specifications for a 2017 or newer mid-size Law Enforcement Sedan (PPV/SSV SEDAN)

SPILL RESPONSE SEDAN (1)

Chassis Specifications and Vehicle Options:

- **Color-** Gray
- **Engine:** Gasoline powered V6 engine, Flex Fuel (E85) compatible (if available)
- **Heavy Duty Cooling System**
- **Transmission:** Automatic Transmission w/traction control
- **Heavy Duty Alternator**, 170 amp charging capacity or greater
- **Interior:** Front and Rear Cloth Seating w/ 1st and 2nd Row Carpeting Option (any standard color)
- **Factory Back-up Camera**
- **18 inch Painted Aluminum Wheels or Steel Wheels with Full Wheel Covers**
- **Tires:** BSW All Season Tires with W speed rating, full size spare and TPMS on all 5 tires
- **Minimum of 4 key FOBs for remote access with an additional 4 standard keys**
- **Factory Installed/Integrated Flashing Headlights**
- **WeatherTech ® Front and Full Rear Floor Cover System (Trays), color to coordinate with vehicle interior**

Emergency Lighting Specifications:

- **3 year parts and labor warranty with travel to vehicle location for repair.**
- **Full and Complete Printed wiring diagram of ALL emergency wiring circuits to be delivered with each vehicle. Diagram to show all circuits pertaining to the entire up-fit, running to and from all equipment. (Delivery will not be accepted without it).**
- **Vehicles will be inspected for rusted debris and metal filings on painted surfaces. If present, delivery will be refused.**
- **Lighting Color Guidelines- Rear facing lighting allows Red, Clear and or Amber. Side facing lighting allows Red and or Amber. Forward facing lighting allows Red, Clear and or Amber.**

- Uniform wiring of ALL vehicles with ALL circuits (No variations from vehicle to vehicle of colors, size, or location of the same circuit).
- All wire connections outside the cabin to be weather proof sealed connectors and/or adhesive lined shrink terminals with environmental protective spray applied.
- All crimp connections to be “Perma-Seal” brand products throughout the entire vehicle with all connections tested for proper crimp and completely shrunk.
- Brass fuse taps are strictly prohibited from use.
- All wired circuits to be descending in wire size from supply to load (no smaller wires feeding larger wired circuits).
- All grounds to be located in vehicle cabin for emergency lighting.
- All screw post terminal positions to be connected via ring terminals. No multi-terminals or stacked terminals per post (use of distribution blocks are required when wires located at one terminal location will not fit in a single connector). The stacking of ring terminals will damage the lighting and siren control unit.
- All non-factory hardware to be Stainless Steel.
- No powered amplifier units of any kind are to be located beneath the vehicle flooring.
- All points in which wires pass through sheet metal holes are to be de-burred and fitted with a dedicated rubber grommet to prevent chaffing. Remaining gaps are to be sealed.
- Throughout the entire vehicle abrasion resistant wire loom is to be used in all places where wire chaffing is possible. All emergency wiring outside the cabin is to be protected by abrasion resistant wire loom.
- Red/White Auxiliary Dome lamp.
- MNSTAR Model #SO-DEC16-M equally fused harness to connect all auxiliary Non-OEM emergency lighting and sirens.
- Horn ring option is to be used (accessed via appropriate wiring within the MNSTAR harness).
- Whelen Engineering- #295SLSA6 siren/lighting control mounted in auxiliary console or provided tower tree and wired to control all emergency lighting in merchant specified arrangement
- Factory Flashing Headlights to be operated via Siren/Lighting control box.
- Flashing Tail lights to be factory flashing red tail lamps or up-fitter installed Whelen #VTX609J Split Red/Amber hide-away LEDs installed in the reverse lamps (one per side). Tail light warning lights to be operated via Siren/Lighting control box.

- Whelen Engineering- #SA315 siren speaker shall be permanently mounted behind grille with appropriate mounting bracket.
- Whelen Engineering- #IX38UFX (or vehicle specific version of the exact same model) Inner Edge Red/Clear light bar without takedowns shall be installed at the top of the windshield along sun visors. Exact lighting pattern shall be determined prior to build.
- Whelen Engineering- #IE38LRZ with #IDTRAY10 (or vehicle specific version of the exact same model) Rear Inner Edge Red/Amber rear deck light bar shall be installed at the base of the rear window. Exact lighting pattern shall be determined prior to build.
- Whelen Engineering- #LINSV2R (Quantity 2) Lower Mirror Mounted Red V-series LED, one per side, installed with #LSVBKT38 mount kit (or vehicle specific version of the exact same model).
- Whelen Engineering- #RSC02ZCR Clear LED Lighthouse (Quantity 1 per vehicle) & #RSR02ZCR Red LED Lighthouse (Quantity 1 per vehicle) to be permanently mounted behind grille with adequate brackets.
- Havis C-VS-1400-INSE (or vehicle specific version of the exact same model) console with cup holder, C-ARM-103 armrest, 2 Microphone clips, 2 Microphone brackets, 2 mounting plates for siren/lighting switchbox and radio shall be installed between LH and RH front seats or comparable tree tower equivalent. Direct fit mounting plates corresponding to the appropriate siren/lighting control and two-way radio to be used. Add C-LP3 DC outlet assemblies. Add C-CUP2-1-A15 cup holder assembly. All console face plates to be installed in merchant agreed upon order by hand (no power tools) to ensure no fasteners are over tightened. Wiring within console to be neat and free of tension on connections (tied too tightly with zip ties such that connections could fail).
- Install wiring for Kenwood TK-790HBK Mobile Radio – Kenwood Part # KCT-22M2 or Leonard Part # 10351 (Remote Control Cable 17' Standard for 90 Series) routed to Siren/Switch box location at the console with 24 inches of excess protruding. Kenwood Part # KCT-23M4 (2 power & 2 ground wires) or Leonard Part # 10387 (DC Cable 75/110 Remote Mount for 90 Series) to be connected to provided MNSTAR circuit with 24 inches of excess located in the trunk.
- Care should be taken to not damage the communication cable seal during installation.
- Install antenna mount and wiring-
 - STI-CO Industries Inc. Part No. ROOF-FT-NITI
 - Mounting Option: Roof mount
 - Connector: One PL-259 UHF Male (NO MINI CONNECTORS)
 - Antenna connector to be delivered with each vehicle not installed
 - Antenna cable and mast are not to be altered in length

Delivery:

All vehicles will be outfitted with the required emergency lighting/equipment and delivered to the designated delivery points within 60 days following the receipt of the vehicles from the manufacturer.

Outfitting:

Installers must have a minimum of 3 years experience performing the installation of aftermarket emergency automotive equipment. The parameters above for installation are clearly stated and must be followed. The factory wiring harness **IS NOT to be compromised** in any fashion that will void factory warranty. Only supplied connections of the SSV package wire harness will be used and **only** for its intended use. Any deviation must be approved by DEC Technical staff.

Upon completion of the vehicle up-fit please contact DEC at 518-469-7239 to arrange for an inspection. All involved panels interior or otherwise are to be left uncovered so that DEC staff may inspect wiring of all circuits for defect and or deviation. Upon approval of the vehicle up-fit reassembly and vehicle delivery prep can be completed.