



Type III “Mini” Modular Ambulance Specifications

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1. AMBULANCE CAB

- 1.1. The ambulance cab has ABS molded seat pockets to allow both the driver and passenger to adjust and recline their seats back so that even the tallest person should experience reasonable comfort. The ambulance conversion is available with either a pass-through door or a solid bulkhead wall.
- 1.2. Custom driver's console; Below eye level, includes all emergency lighting and siren/PA system. Features a PA system, voltmeter for primary and auxiliary batteries, an hour meter, an automatic battery boost system, and back-lit electronic key pad switches. Console is molded of ABS plastic and all switch functions are back-lit for night vision. Console is equipped with a quick disconnect cable and is designed to accommodate the provincial radio
- 1.3. Antenna lead, fender mounted antenna and power lines provided for installation of radio. Ambulance is pre-wired with cable for handset in patient compartment.
- 1.4. OEM plastic door pockets are replaced with flush-fitting vinyl pockets for additional leg room.
- 1.5. Gooseneck map light is installed on the van dash.
- 1.6. Hard-wired 1,000,000 CP portable spot light is supplied and is housed in a custom holder.
- 1.7. No-smoking sign mounted in cab area between sun visors.
- 1.8. Anti-theft device
- 1.9. Restraint straps to prevent over extension of cab door opening

2. MODULAR BODY

- 2.1. The re-mountable modular body is 141" long by 86" wide. Interior floor to ceiling height is 68". The overall ambulance height is approximately 102" high and overall length is approximately 237" Vehicle width, including mirrors is approximately 104"
- 2.2. The aerodynamically shaped aluminum ambulance body has external lighting, and features 6" radius corners resulting in significantly less wind resistance, quieter interior, improved fuel savings and handling characteristics. Constructed with die- shaped 2"x2" welded aluminum structural members to ensure maximum strength and durability, the modular body features a smooth seamless design to increase aero-dynamics and repel corrosion.

- 2.3. A weatherproof flexible seal provides a secure and permanent mating of the cab to the modular body.
- 2.4. The modular body features a passenger side man-door 29" wide by 69" high with a deep-tinted vertical sliding window with screen. Window dimensions are 16" wide by 26" high. (416 sq. ins)
- 2.5. An equipment door is located on the passenger side to allow access to the internal adjustable kit shelves as well as the horizontal oxygen tank mount. Door dimensions are "17 wide by 52" high.
- 2.6. The rear loading doors are 23" wide by 57" high. When full opened a clear opening of 44" wide by 52" high is available to load patients. Doors are held open by CPI plungers. Rear door dark tinted windows are 10" by 23" each (Total area 460 sq. ins)
- 2.7. A rear driver side exterior corner door allows access to two full length spine boards, fire extinguisher, folding stretcher, etc. This door is 48" high and because of its wrap-around design allows maximum access to this storage area.
- 2.8. A service door is located on the driver side of the modular body to access the spare tire, the wheel wrench and jack and the sharps container. It also gives access to service the 1000W power inverter and the electronic circuit board/ power module. The service door is 34" wide by 36" high.
- 2.9. All doors on the ambulance body come equipped with CMVSS compliant latches and having matching key locks.
- 2.10. The rear of the ambulance body is protected by a diamond-plate, full width bumper providing a step of 9" wide. The center section is manufactured into an open-grate non-slip safety step which folds up to allow easy loading of the ambulance cot. A back shield of diamond plated aluminum protects the rear of the modular and provides a mounting area for the LED tail and backup lights. A recessed license plate holder completes the fascia.
- 2.11. The modular body features heavy UV protected ABS fenderettes complete with heavy duty mud flaps. Hi-polished diamond plated running board extend from the front wheel wells to the modular body to protect it from dirt and rock chips.
- 2.12. Body is striped and lettered to Provincial requirements with high-reflective vinyl.

3. MODULAR INTERIOR FEATURES

- 3.1. The ambulance interior is finished in bright, smooth and easy to clean thermo-formed plastic to make the ambulance lighter, stronger and safer.
- 3.2. Left hand cabinets constructed of plastic for ease of cleaning and to reduce vehicle weight. Aluminum structural frame with felt lined sliding window track. Windows are engraved as per CMVVSS 205 and ANS Z26 and can be removed for ease of cleaning.
- 3.3. Standard floor plan includes traditional squad bench with seating for three passengers on vacuum formed, seamless seats and backrests. There are retractable seat belts for each passenger. Hinged top access lid, locks in opened and closed position.
- 3.4. A seamless contoured paramedic seat with forward/backward travel, reclining backrest, retractable seat belt is mounted on a removable base and positioned at the head of the cot.
- 3.5. There are safety bolsters above rear doors, side doors and walk-through.
- 3.6. There is a storage area with molded, adjustable shelves and retention belts, located in right front corner. There is access to this equipment through the passenger side cargo door.
- 3.7. There is a Ferno, dual location mounting bracket for the primary cot.
- 3.8. There is a 60" overhead safety rail securely attached.
- 3.9. There is a patient assist handle on cabinet and door closing handles on each door.
- 3.10. Medical cabinets are illuminated by LED lights.
- 3.11. Altro safety flooring is provided, rolled up at the cabinet and squad bench walls to allow for ease of cleaning. There is 42" of clear isle width.
- 3.12. There is an attendant safety net is provided at the head of the squad bench. This net is equipped with heavy duty aircraft fastening clips to ensure maximum safety but to still allow for quick removal.

4. LIGHTING AND WARNING SYSTEMS

- 4.1. The conversion electronics are a solid state program logic control system compatible with OEM CAN (control area network) system.

- 4.2. A Carson remote head siren with wail, yelp, hi-lo, two-tone sound and manual over-ride system.
- 4.3. Fore-warn bumper mounted twin 100W speakers
- 4.4. Grill mounted wig-wag white light and red flashing light system
- 4.5. Red/white flashing LED intersection lights
- 4.6. Door ajar red flashing warning light located in driver console.
- 4.7. A 1000 Watt inverter including a 40 Amp battery charger system and additional outlets is provided.
- 4.8. 110 Volt interior outlet, exterior heavy duty 30 amp Hubbell type inlet.
- 4.9. Rear brake lights, amber signal lights, red running lights, clearance lights, identification lights, license plate light and reflectors to comply with DOT Specifications.
- 4.10. The modular body features side mounted turn signals to warn drivers of potential lane changes. There are amber in the front, red at the rear and amber/red split lenses mid-body.
- 4.11. (7) Halogen lights recessed into ceiling, operated in right and left hand banks with bright and dim settings for each bank. Left hand bank automatically activates when rear doors or side doors are opened to illuminate the patient stretcher.
- 4.12. LED lights in all medical cabinets, and a separate switched chart light in the action area wall.
- 4.13. Automatically activated interior lights in exterior compartments.
- 4.14. A Whelen 4500 Series Edge-Plus lightbar is provided with 2 red corner facing, red front facing and 2 white front facing LED lights. The bar is also equipped with LED amber clearance lights.
- 4.15. Back-up alarm with cancellation switch and automatic re-set.

5. ELECTRICAL SYSTEM

- 5.1. The Ford chassis comes factory equipped with dual alternators rated at 240 Amps and has a factory supplied auto throttle.
- 5.2. An isolated battery is installed in a ventilated exterior battery box and is dedicated to providing power to the ambulance conversion. Both the chassis batteries as well as the auxiliary battery are automatically charged by the

alternators. Both sets of batteries are also charged by the inverter when the shoreline is connected. All batteries are used to start the vehicle through the intelligent starting/charging system.

- 5.3. Wiring harness consists of SXL wiring with high temperature convoluted loom for heat and abrasion protection.
- 5.4. The driver's control console is designed for quick access for servicing. All switches are back-lit for easy identification at night
- 5.5. Comprehensive Service Manual including operating instructions, parts manual and electrical schematics provided.
- 5.6. 1000 Watt Fleet-Power inverter with labeled interior outlets.
- 5.7. Heavy duty Hubbell style 110V exterior power inlet. Comes with heavy duty connector body for extension cord.

6. MEDICAL EQUIPMENT

- 6.1. Built-in Impact electronic suction system includes large wall mounted Abbott collection jar and disposable liners.
- 6.2. A certified oxygen cylinder bracket bolted to the floor horizontally to lower the center of gravity. Cylinder can be loaded while standing outside the ambulance. Pre-set oxygen regulator is included with system.
- 6.3. Oxygen outlets on attendant wall and on passenger side wall.
- 6.4. Holder for portable oxygen cylinder.
- 6.5. (2) Hinged CPI IV holders recessed into ceiling
- 6.6. Sage type sharps container located in action area.

7. ENVIRONMENTAL

- 7.1. A 110 VOLT heater is located at floor level close to the rear doors. Heater is set with a thermostat.
- 7.2. Auxiliary rear heat/ air conditioner is installed at ceiling level in the front bulkhead, set with a thermostat and three speed switch on action wall.
- 7.3. The exhaust vent/intake vent is activated by hi/lo switch on attendant panel.
- 7.4. Non-settling fire retardant, foil backed insulation is glued to the ceiling, walls and inside doors. Insulation keeps heat in during the winter, cool in summer, impedes water vapor transmission, and reduces noise levels.

8. CHASSIS UPGRADES

- 8.1. Heavy duty rear anti-sway bar complete with high performance urethane bushing are installed on the van chassis.
- 8.2. Convex accessory mirrors are installed complete with molded fairings.
- 8.3. A heavy duty back-up alarm is provided. It can be cancelled from the driver's console, however it has an automatic re-set feature when the ambulance is placed in drive gear.
- 8.4. Heavy duty rubberized undercoating is applied to vehicle wheel wells.
- 8.5. Cab length running boards with heavy duty bracing.

9. SUPPORT SERVICES AND WARRANTY

- 9.1. Certificate of Compliance to Provincial Standards
- 9.2. Transport Canada Certificate of Compliance and National Safety Mark
- 9.3. Comprehensive Ambulance Conversion Owner's Manual