

"CORONET"

Emergency Rescue Hospital Unit

Print #3345

1. <u>BODY FRAMING AND ASSEMBLY:</u>

- A. In accordance with good engineering practice, the vehicle frame shall be lengthened or shortened to the required body length to provide support for all body crossmembers.
- B. Hardwood bed pieces shall be fitted to the top surface of the chassis frame, and counter bored to accommodate chassis frame rivets, to give uniform load distribution over the vehicle frame. Hardwood fillers shall be treated with wood preservative.
- C. The hardwood bed pieces shall be capped with hi-tensile steel, 3-inch channel along the full length of the longitudinal frame members.
- D. Evenly spaced, threaded "U" bolts, with tie bars and captive nuts, shall secure the body, steel channel and bed pieces to the chassis frame.
- E. Floor crossmembers shall be placed on approximately 16-inch centers and shall be of adequate size to carry body and payload without fracture or failure; minimum 11-gauge steel.
- F. Longitudinal members, if required, shall be constructed of steel and shall be free of fractures to the full length of the section.

050201/1943

1. <u>BODY FRAMING AND ASSEMBLY</u>: Continued

- G. General body wall construction shall consist of roll-formed "C" channels, 8.625 inch high by 1.75 inch deep, 3003-H14 aluminum alloy, .080 inch thick. The channels shall run horizontally the entire length and width of the unit and shall be secured to aluminum corner posts, roof rail and lower rail using 3/16-inch brazier head aluminum rivets. Finished exterior body surfaces shall be smooth with no rivets.
- H. The roll-formed "C" channels shall comprise the exterior body sides and end panels. The channels shall be fastened together along their full length with Plexus, or equal, high-performance adhesive specially designed for metal bonding (same as widely used in transportation, marine, and aviation industries). The bond formed has a tensile strength of approximately 2,500 PSI (strain-to-failure ration greater than most commercial mechanical fasteners); temperature resistance range of -67° F to +250° F; chemical resistance; high-fatigue endurance; and impact resistance.
- I. Each wall section shall be reinforced with vertical aluminum members, which are welded on a minimum of 48-inch centers.
- J. The roof carlines shall be aluminum extrusions, 6063-T6 alloy, which shall be welded to the roof rail on 16-inch centers. The roof assembly shall consist of a one-piece, .040-inch aluminum roof. Roof panel to be secured around perimeter with adhesive and 3/16-inch brazier head aluminum rivets to aluminum extruded roof rail.
- K. All window and door openings shall be framed with welded aluminum structures and gusseted to prevent torsional twisting. Heavy-gauge metal tapping plates shall be installed between frame members to secure heavy wall-mounted equipment as per custom body floor plan. Around perimeter of interior body at ceiling, an integral part of roof rail is provided to secure ceiling, side panels and overhead cabinets. At ceiling, there shall be installed tapping plates to permit positive securing of light fixtures.
- L. Unit shall be equipped with lights and directional signals (front and rear) and back-up lights in accordance with D.O.T. Safety Regulations. Cab equipped with mirror on left and right sides.
- M. Lower front corners of body shall be protected by 3M, Mylar, or equal, gravel guards.

2. INSULATION:

Body shall be insulated on sides, ends, floor and ceiling with foamed-in-place urethane. Insulation offers optimum environmental protection; adds support to sides, ends and roof; prevents entrance of moisture; and acts as a sound retardant. (Minimum: R-12.)

3. <u>WALLS AND CEILING</u>:

- A. The interior walls shall be lined for full width and length with 1/4-inch thick laminated formica panels. Panels shall be secured with joiners, edgings and moldings specifically designed for this purpose.
- B. Ceiling shall be surfaced with NUDO Products, FiberCorr, or equal, ceiling panels, consisting of .090-inch FRP overlay laminated to a corrugated plastic core.

4. FLOOR:

- A. Between cross sills, secure 26-gauge galvanized sheet to fully enclose floor area. Above cross sills, secure 3/4-inch thick plywood which is laminated on both sides with fiberglass-reinforced-plastic panels. The panel edges to be treated with edge-sealer for water resistance. Underside of floor panels exposed to road shall be sprayed with Quaker Koat, or equal, sound-deadening undercoating.
- B. Floor shall be surfaced with Armstrong, or equal, heavy-duty cushioned vinyl linoleum.

5. PAINTING PROCEDURES:

- A. Body exterior shall be thoroughly cleaned, sanded and primed with PPG urethane primer. Body shall be painted with two (2) coats of PPG polyurethane topcoat, one color of buyer's choice.
- B. Body shall be undercoated with Quaker Koat, or equal, sound-deadening undercoating.

6. <u>ENTRANCE/EXIT DOOR(S)</u>:

- A. Doors shall be pan-type, constructed of 0.125-inch aluminum with aluminum tube reinforcement. Shall be insulated with structural urethane and close on dust-sealing neoprene extrusions. Door(s) shall include safety-glass window with designer venetian blinds plus double-acting door latch meeting FMVSS #206 standards with keyed lock. Hinges shall be stainless steel, continuous type with 3/16-inch (minimum) hinge pin. Suitable safety steps and grab handles shall be installed at door locations.
- B. Install safety-tread, pullout steps at side entrance/exit locations. Includes a handrail system for patient convenience.

7. ELECTRICAL SYSTEM:

Unit shall be wired to receive 4-wire, 120/240-volt, 60-Hertz, AC, single-phase, 30-amp power from generator or local power source via lead-in cable. Necessary wiring shall be provided for operation of 120/240-volt equipment where indicated.

8. WIRING:

- A. All wiring shall be NEC standard conduit with stranded wire or plastic jacketed, non-metallic sheathed cable with ground. Wiring and related devices shall be installed in a workmanlike manner, mechanically and electrically secure. Items requiring periodic service shall be readily accessible and serviceable. Wiring shall be protected by grommets when passing through structural members.
- B. Circuit breakers panel(s) of adequate capacity shall be installed at appropriate locations within body and shall include:
 - 1. Individual 120-volt circuits for utility equipment, lights, air conditioning and receptacles.
 - 2. 240-volt for electric heating units.
- C. Duplex receptacles shall be provided in convenient locations within body interior to conform to National Electric Code.
- D. Provide 50-foot, 4-wire lead-in cable with waterproof receptacle on one end and alligator clips on other end for connection to 120/240-volt power source. Cable shall be sized to unit capacity.

9. LIGHTING:

- A. Fluorescent lights in standard 1-, 2-, or 4-tube fixtures shall be surface-mounted on interior body ceiling within plastic diffuser panels or beneath cabinets above work surfaces. Diffusers shall be equipped with latching device to prevent falling in transit.
- B. 12-volt dome lights shall be provided at each door entrance and within exterior body compartments.
- C. Install a floodlight on unit exterior at each door entrance. Floodlight shall be controlled by interior switch.

10. <u>GENERATOR/GENERATOR COMPARTMENT</u>: (Gasoline Generator)

- A. Compartment shall be accessible from side via hinged, louvered doors equipped with flush-mounted locks and holders in the open position
- B. Compartment shall be properly framed with aluminum members and surfaced with .090-inch aluminum panels. Compartment shall be enclosed with 1/2-inch Homosote on the body interior and surfaced with formica counter topping and paneling on the vertical wall. Area between the inner and outer walls of compartment shall be insulated with foamed-in-place urethane.
- C. Provide a 7.5 kilowatt Onan, or equal, 120/240-volt, 60 Hertz, single phase, generator equipped with vacuum cooling device, remote controls, starting battery, and critical area silencer. Shall be installed for easy servicing, proper heat and exhaust dissipation, and connected to vehicle fuel tank for gasoline supply.
- D. Generator shall be hard-wired to a three-position, manual transfer switch to change power input from generator to local power source, if available.
- E. Generator shall be shock-mounted on vibration isolators.
- F. A seamless exhaust section shall connect the generator manifold with the intake of the critical area silencer. A 5-foot flexible, stainless steel exhaust extension equipped with quick-disconnect connector shall be provided to add to underbody exhaust line for additional exhaust dissipation.
- G. A remote start/stop button, hour meter, and battery condition indicator shall be installed within body interior
- H. Compartment shall be lined with Tufcote, or equal, sound barrier material

11. AIR CONDITIONING/HEATING:

- A. Install two (2) Coleman, or equal, roof-mounted air conditioners with electric resistance heat strip within reinforced roof section. Units shall be rated at 13,500 BTU cooling and 5,600 BTU heating; 120 volt.
- B. Install two (2) thermostatically controlled, electric blower heaters within the body interior. Each heater rated at a minimum of 3,400 BTU.

12. PLUMBING:

- A. The plumbing system shall be designed to receive water directly from local sources or from the installed tank. Plumbing fixtures, devices and appurtenances shall be supplied with water in sufficient volume and at pressures adequate to enable them to function satisfactorily and without undue noise. All water piping shall be subjected to adequate water and pressure tests to determine leakage or loss in pressure.
- B. The plumbing system shall include:
 - 1. One (1) 20-gallon fresh water tank,
 - 2. One (1) 25-gallon wastewater tank with hose connection,
 - 3. One (1) Flojet, or equal, 120-volt heavy-duty water pump,
 - 4. One (1) 6-gallon electric water heater.
- C. The fresh water tank shall be installed within an insulated underbody skirt compartment accessible through a hinged door with flush-mounted lock and holding device for door in open position. Compartment shall be provided with electric heater for winter protection against freezing.
- D. Fresh water tank shall be connected to water heater and water faucet at sink by high pressure, polybutylene tubing.
- E. Plumbing system shall be equipped with check valves in accordance with approved commercial practice.
- F. Provide one (1) 50-foot water hose and one (1) wastewater hose. Hoses to be different sizes to prevent intermix.
- G. Install a dispenser for folding paper towels at each sink location.
- H. Waste water shall drain to waste tank or hose connection through corrosion-resistant PVC tubing.
- I. Unit shall be equipped with a water filter with replaceable filter element.

14. INTERIOR FURNISHINGS:

A. Patient Area:

- 1. On each side of body interior, provide heavy-duty squad bench with storage under. Includes reinforcement, hinged doors, "U"-guide channels to receive litter feet, and a removable upholstered seat pad. Stretcher hold-downs also provided.
- 2. Provide four (4) military litter-type, Ferno Model FW-108AF, pole stretchers. Includes vinyl-covered canvas and rugged aluminum cross spreaders and feet. Stretchers can be folding for storage.
- 3. Two (2) stretchers shall be suspended from the ceiling above squad benches. Includes ceiling suspension, plastic-coated eye bolts, and aluminum suspension bars with plastic-coated lower hook, plus plastic-coated wall hooks with special "captive" top design to prevent stretchers from bouncing out in transit. All hardware fastened to heavy-duty tapping plates.

B. Surgical Room:

- 1. Accessible through double-swinging doors equipped with locking device on both sides. Doors shall be equipped with an aluminum kick-scuff plate on both sides at bottom. Aluminum, stainless steel, or chrome hand push plates shall be provided in the upper section of each door on both sides.
- 2. Install a UMF 5835, or equal, examining and operating chair/table equipped with articulated backrest, shoulder rests, stirrups, cushion, and Trendelenburg feature.
- 3. Build in a stainless steel sink within formica surfaced work counter. Shall include hot and cold water mixing faucet energized by foot pedals.
- 4. Install on shelf above sink cabinets a Vernitron 8020, or equal, autoclave with capacity for three instrument trays.
- 5. Provide and secure a UMF, or equal, double bowl stainless steel solution stand. Stand mounted on a 2-inch conductive soft rubber, easy swivel, ball bearing casters.
- 6. Provide and secure a UMF, or equal, kick bucket with a 12-quart stainless steel pail encircled with a conductive rubber bumper. Mounted on ball-bearing conductive rubber casters.

14. <u>INTERIOR FURNISHINGS</u>: Continued

- B. Surgical Room: Continued
 - 7. Provide and secure a Wilson Magee stainless steel crash cart. Includes three (3) full width drawers, with nylon rollers; and full-width storage compartment at bottom. Unit is mounted on 5-inch ball bearing casters. Tubular steel push handle with donut-type rubber bumpers. Lower corners have heavy-duty corner bumpers. Includes stainless steel Mayo attachment, double hook irrigator rod, adhesive rack, cardiac pressboard, and conductive casters.
 - 8. Install UMF Model SS8201, or equal, treatment cabinet with stainless steel top and bottle rack.
 - 9. Provide and secure a stainless steel Mayo stand, UMP Model SS8310, or equal.
 - 10. Provide a floor- or wall-mounted, high intensity surgical lamp, Burton Model 11201, or equal.
 - 11. Provide an oxygen administration unit complete with one (1) oxygen cylinder ("E" size), regulator, flowmeter, humidifier, 10-foot tubing, and masks mounted on crash cart.

14. MISCELLANEOUS:

- A. Four (4) removable, heavy-duty, swing-away stabilizing jacks shall be provided.
- B. Two (2) 2-1/2 pound dry chemical fire extinguishers shall be bracketed and installed within body interior.
- C. One (1) highway warning kit, including three (3) red emergency triangle reflectors shall be provided.
- D. Underbody storage compartments shall be provided to store lead-in cable, etc. Accessible through hinged doors with holding devices and flush-mount chrome locks.
- E. Install coat hooks at convenient locations within body interior.
- F. Provision shall be made for securing all equipment during operational transit.
- G. Two (2) copies of Medical Coaches' Operator's Manual shall be provided. Shall include one (1) set of supporting manuals covering supplied items such as chassis, generator, air conditioner, etc., if supplied.
- H. Install an access port within the compartment or compartment door of every generator, electrical cable and plumbing compartment allowing the lead-in cable and hoses to be connected to the unit with the main compartment doors closed and locked.
- I. An emergency 12-volt lighting system with rechargeable battery and trickle charger shall be installed.

15. CHASSIS/BODY EQUIPMENT:

- A. All vehicle lights (chassis and body), reflectors, markings and wiring systems shall be in conformance with D.O.T. safety regulations and state laws. The system shall be 12-volt. Lights shall not be mounted on rub rails or vehicle bumper. An illuminated rear license plate holder shall be furnished.
- B. Turn signals, SAE Class A, Type I, with Class A operating units mounted on the steering column shall be furnished. Vehicle shall be equipped with single-faced front and rear signal units installed in accordance with SAE recommendations. Operating units shall be provided with a visible and an audible flash indicator. Back-up lights shall be installed.

16. PRE-DELIVERY PREPARATION:

Prior to delivery the entire vehicle shall be serviced by a local authorized chassis dealer for drive-away delivery. Each component will be serviced in accordance with the manufacturer's recommendation.

17. SPECIAL REQUIREMENTS:

- A. Details concerning colors, exterior painting, and lettering, etc., plus delivery of completed unit to be arranged at a later date in accordance with buyer's wishes.
- B. Due to variances in state and local regulations, there may be some additional options required for individual compliance. If compliance necessitates extra-cost options, they will be quoted separately as necessary.

18. LIMITED WARRANTY:

- A. Medical Coaches Incorporated offers a limited warranty on the mobile unit for twelve (12) months or 12,000 miles. The warranty includes all equipment supplied by Medical Coaches except those items that are covered by a separate warranty.
- B. A detailed warranty statement shall be provided upon purchase or upon request.

<u>OP</u>	<u>ΓΙΟΝΑL ITEMS</u> :	CHECK IF DESIRED:
A.	Lettering exterior body at sides, front and rear to buyer's order (Special artwork and emblems at extra cost.)	
B.	Paint body two-tone instead of standard one color	
C.	Paint truck cab other than standard color	
D.	Unit to be wired for 50-Hertz service (Export Only):	
	1. Generator to be de-rated to produce 220-volt, 50-Hertz, AC, 2-wire power. Includes grounding rod with chain. All electrical equipment within body to be equipped for 50-Hertz service	_
	2. If any 110-volt equipment is to be installed, provide a 3,000-watt step-down transformer and connections to 110-volt receptacles	
E.	Provide a stereo AM/FM radio/compact disc player connected to overhead speaker system. Includes body-mounted antenna	
F.	35-item tool kit contained in metal carrying case	
G.	24-unit first aid kit with all necessary bandages, antiseptics and burn ointments contained in a steel box	
H.	Provide one (1) folding aluminum table and two (2) steel folding chairs	
I.	Exterior Tent: To be a Eureka, Riverside, or equal, 9-feet x 12-feet with center height of 7-feet 6-inches, full floor, door and three (3) large windows with storm flaps. To be used for additional patient area or staff living area	
J.	Fisher Micromaster I, or equal, binocular microscope with carrying case	
K.	Two burner electric hot plate	
L.	Trauma Kit II, trauma/first aid kit, approximately 100 items. (List available upon request.)	
M.	Generator spare parts kit	
N.	IV stand, stainless steel base, telescoping action, double hook cross piece, locking device, and three (3) 2-inch conductive casters.	; •
O.	Anesthesia System – OHMEDA, Excell 110, or equal, 2 gas anesthesia machine with ventilator, GMS absorber, Halothane vaporizer, and gas scavenger	
P.	GOMCO, or equal, surgical suction unit	
Q.	Two (2) five gallon emergency gasoline cans bracketed and secured against theft.	

Chassis Model	Chevrolet/GMC C7500 Chassis Cab
Wheelbase	224 inches
Cab-to-Axle	156 inches
Gross Vehicle Weight Rating (GVWR)	26,000 pounds
Engine (Gasoline)	V-8 (8.1L) 295 HP
Transmission (Manual)	5-speed
Clutch	Heavy-duty
Brakes (Service)	Power, split-hydraulic
Steering	Power
Alternator	105 amp
Battery	Delco Freedom II, F-20, 600 CCA
Axle, Front	8,100 pounds
Axle, Rear	19,000 pounds
Springs, Front	9,000 pounds
Springs, Rear	21,000 pound capacity with auxiliary
Tires (6)	235/80R22.5G; singles front; duals rear
Shock Absorbers	Front and rear
Gauges	Voltmeter, oil pressure, water temperature
Radiator	Increased cooling
Seat	Full width bench
Glass	Tinted
Heater and Defroster	Fresh air
Mirrors	Dual, West Coast; stainless
Bumper and Grille	Painted
Seat Belts	Driver and passenger
Windshield Wipers	2-speed electric with washers
Armrests	Driver and passenger
Sun Visors	Driver and passenger
Horn	Single electric
Fuel Tanks	Dual, 50 gallon, step tanks
Frame	Reinforced
Color	White

Optional Items:	Check if
•	Desired:
A. Spare tire, wheel, and carrier	
B. Cab air conditioning	
C. AM/FM Radio	
D. 5-speed automatic transmission	
E. 7.2L. diesel engine	
F. Full air brakes	
G. 4-wheel drive (4x4); custom conversion	

Chassis Model	Ford F-650 Chassis Cab		
Wheelbase	230 inches		
Cab-to-Axle	156 inches		
Gross Vehicle Weight Rating (GVWR)	26,000 pounds		
Engine (Diesel)	Cummins 205 HP		
Transmission (Manual)	6-speed		
Clutch	Heavy-duty		
Brakes (Service)	Power, split-hydraulic		
Steering	Power		
Alternator	115 amp		
Batteries (Dual)	93 amp-hr.; maintenance free, 625 CCA		
Axle, Front	9,000 pounds		
Axle, Rear	17,500 pounds		
Springs, Front	8,500 pound capacity		
Springs, Rear	17,500 pound capacity with auxiliary		
Tires (6)	10R22.5(F); singles front; duals rear		
Shock Absorbers	Front and rear		
Gauges	Ammeter, oil pressure, water temperature		
Radiator	Increased cooling		
Seats	Driver with 2-passenger		
Glass	Tinted		
Heater and Defroster	Fresh air		
Mirrors	Dual, West Coast; stainless		
Bumper and Grille	Painted		
Seat Belts	Driver and passengers		
Windshield Wipers	2-speed electric with washers		
Armrests	Driver and passenger		
Sun Visors	Driver and passenger		
Horn	Dual electric		
Fuel Tanks	Dual, 50 gallon, step tanks		
Frame	Reinforced		
Color	White		
Radio			
Nadio	Alvi/Tivi		
Ontional Itama	Charleif		
Optional Items:	<u>Check if</u> Desired:		
A. Spare tire, wheel, and carrier	<u>Desired.</u>		
B. Cab air conditioning			
C. AM/FM Radio with CD player			
D. 4-speed automatic transmission (AT 545)			

Chassis Model	International; 4300 Chassis Cab (4x2)
Wheelbase	218 inches
Cab-to-Axle	150 inches
Gross Vehicle Weight Rating (GVWR)	25,500 pounds
Engine (Diesel)	
Transmission (Manual)	6-speed
Clutch	Heavy-duty
Brakes (Service)	Hydraulic, split-system
Steering	Power
Alternator	100 amp
Batteries (2)	12-volt, Maintenance Free, 1100 CCA total
Axle, Front	8,000 pounds
Axle, Rear	17,500 pounds
Springs, Front	8,000 pounds
Springs, Rear	18,500 pound capacity with 4,500 pound auxiliary
Tires (6)	10R22.5(12PR); singles front; duals rear
Shock Absorbers	Front and rear
Gauges	English cluster with electronic speedometer and
_	tachometer
Seat	Full width bench
Glass	Tinted
Mirrors	Dual, West Coast; aluminum
Seat Belts	Driver and passenger
Windshield Wipers	2-speed electric with washers
Armrests	Driver and passenger
Sun Visors	Driver and passenger
Horn	Dual electric
Fuel Tanks	Dual, 50 gallon, step tanks
Frame	Reinforced
Color	White
Cab Air Conditioning	Installed

Optional Items:		Check 1f
		Desired:
A. Spare tire, rim and carrier	\$650.	
B. AM/FM radio with CD	\$450.	
C. 4-speed automatic transmission (AT545)	\$3,555.	
D. Air-ride suspension	\$2,535.	

Chassis Model	International; /300 Chassis Cab (4x4)
Wheelbase	218 inches
Cab-to-Axle	
Gross Vehicle Weight Rating (GVWR)	25,500 pounds
Engine (Diesel)	International DT466; 195 HP @ 2300 RPM
Transmission (Manual)	6-speed
Clutch	Heavy-duty
Brakes (Service)	Dual air system
Steering	Power
Alternator	100 amp
Batteries (2)	12-volt, Maintenance Free, 1100 CCA total
Axle, Front	10,000 pounds
Axle, Rear	17,000 pounds
Springs, Front	10,000 pounds
Springs, Rear	18,500 pound capacity with 4,500 pound auxiliary
Tires (6)	11R22.5(14PR); singles front; duals rear
Shock Absorbers	Front and rear
Gauges	English cluster with metric electronic speedometer
	and tachometer
Seat	
Glass	
Mirrors	, , <u>, , , , , , , , , , , , , , , , , </u>
Seat Belts	
Windshield Wipers	
Armrests	Driver and passenger
Sun Visors	Driver and passenger
Horn	
Fuel Tanks	, , ,
Frame	Reinforced
Color	White

Optional Items:		Check if Desired:
A. Spare tire, rim and carrier	\$750.	
B. Cab air conditioning	\$1,570.	
C. AM/FM radio with CD	\$450.	
D. 4-speed automatic transmission	\$8,640.	