

2006

TYPE II

FORD E-350 SUPER VAN

AMBULANCE SPECIFICATIONS

66" INTERIOR HEADROOM

SPECIFICATIONS

The following chassis must comply with current "KKK-A-1822".

1. CHASSIS

2006 Ford E350 super van chassis with ambulance builders prep package #47A
9400-pound GVWR
138" wheelbase
6.0L Power Stroke[®] turbo diesel V8 engine
5 speed TorqShift™. automatic transmission
Power Steering, tilt wheel, and cruise control
Power brakes with 4 wheel anti-lock disk braking system
Parking brake, cable actuated variable ratio
Heavy-duty factory air conditioning
Extra engine cooling package
Tinted glass, fixed, side and rear entrance doors
Comfort ride suspension
Seat belts, both lap and shoulder for driver and passenger
Factory high back bucket seats
Chrome front bumper with rubber coated bumper guards
Exterior mirrors manual swing out telescopic trailer tow mirrors with built in convex mirrors
Alternator, dual OEM 130 amp
Dual heavy-duty batteries 650 CCA, 78 amp hr. mounted under the chassis on the frame rails
Gauges: voltmeter (showing total voltage), ammeter 300 AMP shunt, temperature, oil pressure, and fuel
Single factory installed fuel tank with 35-gallon capacity
Front axle – 4600-pound capacity
Rear axle – 6340-pound capacity
Rear axle ratio – 4.10:1-limited slip
Heavy-duty front springs with stabilizer bar
Heavy-duty rear leaf springs
Heavy-duty shock, front and rear
Air bags – driver and passenger
A-Pillar interior grab handle – driver and passenger
AM/FM radio with digital clock and single cd
OEM idle control – full function
Intermittent windshield wipers
LT245/75RX16E tubeless, BSW all season tires
Factory electric horns
Exterior sound package
Inside hood release
Dash mounted 12-volt power point
Spare tire, wheel, and tire changing tools
Black plastic step well inserts
Remote Keyless Entry

CHASSIS OPTIONS:

Diamond plate running boards
16" forged aluminum wheels

2. DRIVER COMPARTMENT:

- A. Padded entry door panels
- B. Padded head knockers over entry doors.
- C. Lockable partition door with see thru window
- D. Fold down access to overhead electrical panel.

3. ROOF CONSTRUCTION:

- A. Fiberglass roof structure attached every 4" to chassis and sealed.
- B. Gel-coat to match chassis color.
- C. 4' x 5' ground plane laminated into fiberglass to insure proper radio reception and transmission.
- D. Fiberglass roof supported by full roll cage consisting of seven (7) 1 ¼" steel tubing running vertically and 3 ¼" flat stock running horizontally
- E. All vertical supports welded to chassis framing structure.
- F. Certified to static school bus load test standard #001.
- G. Minimum of 66" interior headroom.
- H. Head liner constructed of white gel coated fiberglass with padded cover over center wire race.

4. WALL CONSTRUCTION

- A. Crash rails welded to each side of chassis interior wall used to secure squad bench and cabinets

5. FLOOR CONSTRUCTION

- A. One piece, seven ply exterior grade, ¾" plywood floor
- B. Flooring extends full length and width of patient compartment.
- C. Commercial Lonseal brand gray Loncoin floor covering.
- D. Flooring to extend up side wall 3".

6. DOORS

- A. Double side doors on curbside with 250 square inches of safety glass per door
- B. Curbside and rear doors provide unobstructed access to and from patient compartment.
- C. Double rear doors with 250 square inched of safety glass per door
- D. Lower half of patient compartment doors are covered with heavy duty, marine, woven vinyl padded door panels burgundy in color
- E. All latches, hinges, and hardware shall comply with FMVSS 206

7. REAR BUMPER STEP/TRIM:

- A. Center section to be aluminum open grate
- B. Capable of supporting 500 lb. Test weight without flexing

8. AMBULANCE LETTERING AND PAINT:

- A. Federal DOT Ambulance decal package
- B. 10" Belt line stripe

9. SCENE LIGHTS:

- A. Four scene lights, two per side.
- B. Two load lights over rear doors.
- C. One hand held 200,000 candle power spotlight hardwired into system.
- D. Load lights to automatically activate when rear or side entry doors are opened.
- E. Entire system to conform to current Federal KKK specifications.

10. EXTERIOR WARNING LIGHTS:

- A. Eight (8) red halogen lights-two front, two rear, and two each side of fiberglass roof
- B. One forward facing clear lens halogen light centered on front of fiberglass roof
- C. One amber lens halogen light on rear of module centered above doors on fiberglass roof
- D. Two red halogen grill mounted warning lights.
- E. Two red halogen fender mounted intersection warning lights.
- F. All warning lights to be Whelen or equal.
- G. Primary/secondary function.
- H. Entire emergency lighting system to conform to current Federal KKK specifications.

11. AUDIBLE WARNING EQUIPMENT (SIREN):

- A. 200 watt electronic siren, Southern VP SS-700 or equal with full function, including PA, airhorn, manual, wail, yelp, phaser, and horn override.
- B. Two cpi 100 watt speaker / grill light combo's mounted on the top of each side of the bumper.
- C. Horn/siren switch on control panel for siren control through horn ring.
- D. Entire system to conform to current Federal KKK specifications.

12. ELECTRICAL POWER SYSTEM:

- A. Batteries to have OEM protective heat shields.
- B. Dual Ford factory alternators.
- C. Wiring looms to be high temperature Packard electric split type.
- D. GXL wiring with function code printed every 6".
- E. All wiring harnesses utilizing machine crimped amp style connectors.
- F. Power Control Panel (PCP) located in cab overhead.
- G. Power Control Panel to be easily accessible for service.
- H. All load bearing wiring minimum 12 awg.
- I. Wiring installation to be automotive harness design (minimum 3).
- J. Entire system to conform to current Federal KKK specifications.
- K. Automatic reset circuit breakers.
- L. Inverter pre-wiring with switch, cables, and transfer switch.
- M. Mount hi idle under driver's seat and set to automatic mode.

13. PATIENT COMPARTMENT ELECTRICAL:

- A. Sever (7) dual intensity recessed halogen lights, five in normal position on switch, one over attendant's seat, and one over side door on same switch
- B. Two 110 volt A.C. duplex wall outlets – GFI protected with “energized” indicator light and wired to exterior shoreline. One to be located in the action area and one in ALS compartment.
- C. Full length, padded wiring harness access panel.
- D. Pre-wired with two medical radio antenna coax cable.
- E. Two 12 volt D.C. outlets on action wall.
- F. Swivel light over passenger seat in cab

14. DRIVER'S CONSOLE

- A. Overhead gel-coated white fiberglass console with full width drop down access panel.
- B. All switches back lighted and permanently labeled.
- C. Lighted paddle type master switch.
- D. Warning light and scene light control switches.
- E. Horn/siren switch.
- F. Door ajar indicator.
- G. OEM electronic auto throttle
- H. Back-up alarm disable with momentary type switch that resets when reverse is disengaged
- I. Silent three light intercom, with buzzer.
- J. Patient compartment dome lights.
- K. Dash console for all switching
- L. Floor console for siren and radio mounting

15. ACTION WALL

- A. Technician switch panel on hinged access door.
- B. Dome light intensity control switches.
- C. Electric suction motor switch.
- D. Power exhaust vent switch.
- E. Silent intercom.
- F. Dual recessed oxygen outlets.
- G. Single recessed suction outlet.
- H. Open work area with suction collection jar.
- I. EMT light with switch.

16. ENVIRONMENTAL EQUIPMENT

- A. High capacity heavy duty three-speed combination heater/air conditioner system conforming to current Federal KKK specifications, Hoseline or equal.
- B. Two vacuum-controlled automatic shut off valves for rear heater hoses
- C. Body sides, roof, and doors to be insulate with R-11 fiberglass batting.
- D. Electric power exhaust vent in patient compartment with switch at action wall panel.

17. PATIENT COMPARTMENT MEDICAL:

- A. Dual medical oxygen outlets recessed into action wall.
- B. Single Ohio medical oxygen outlet recessed in wall over squad bench.
- C. Rico RS-4X suction system with 12-volt electric pump vented to exterior.
- D. Two IV hooks with restraining straps.
- E. Ferno Washington Model 175-1 cot mount.

18. SAFETY FEATURES:

- A. Padded vinyl door trim panels and head knockers.
- B. All vinyl to be heavy duty type with minimum thickness of .046".
- C. All seat cushions on squad bench and attendant seat are minimum of 3" thick.
- D. Overhead grab rail 80" of single piece construction.
- E. Entry door grab handles
- F. Seat belts bolted to chassis structure.
- G. Two "No Smoking" signs.
- H. Two "Fasten Seat Belts" signs.
- I. Certified o2 cylinder retention device.

19. TECHNICIAN SEAT:

- A. Padded vinyl seat and backrest shall be provided on a storage box.
- B. Retractable seat belt bolted to chassis structure.
- C. Under seat storage compartment containing, G.F.I., inverter pre-wire, and transfer switch.

20. SQUAD BENCH:

- A. Split bench lid with dual hold open devices.
- B. Padded full length back rest.
- C. Three sets of retractable seat belts.
- D. Stretcher post and wheel cups in squad bench lids.
- E. Under bench storage.

21. PATIENT COMPARTMENT CABINETS:

- A. Streetside wall cabinets, squad bench, and front wall cabinets to conform to attached drawings.
- B. Cabinetry constructed of $\frac{3}{4}$ " seven ply plywood covered with $\frac{1}{16}$ " plastic laminate.
- C. Shelving to be adjustable.
- D. All plexiglass to be $\frac{3}{16}$ " installed in extruded aluminum frames with replaceable track section.
- E. Sliding door with window between cab and patient compartment.
- F. $\frac{3}{4}$ " x $\frac{1}{4}$ " groove and dadoes construction for strength and durability.
- G. All interior cabinets lined with white Formica.
- H. All exposed corners and edges broken with $\frac{1}{2}$ " radius or chamfer or covered with highly polished trim.

25. SPECIAL FEATURES:

- A. Undermodule undercoating per current Federal KKK-1822 specifications.
- B. Headroom 66" interior minimum.
- C. Markings and data plates conforming to current Federal KKK specifications.
- D. Locking drug box.
- E. Three light/buzzer intercom system.
- F. Patient compartment sound level conforming to current Federal KKK specifications.

26. ADDITIONAL MANDATORY REQUIREMENTS:

WHEN SPECIFIED (X), THE FOLLOWING ITEMS SHALL BE SUPPLIED AS PART OF THIS SPECIFICATION.

- A.
- B.
- C.
- D.
- E.
- F.
- G.
- H.
- I.
- J.
- K.
- L.
- M.
- N.
- O.
- P.
- Q.
- R.
- S.
- T.
- U.
- V.
- W.
- X.

27. EXCEPTIONS TO SPECIFICATIONS:

ANY AND ALL EXCEPTION TO THESE SPECIFICATIONS, AS WRITTEN OR DRAWN SHALL BE NOTED ON THIS PAGE, REFERENCED BY PAGE AND PARAGRAPH NUMBER AND DESCRIBED IN DETAIL. FAILURE TO COMPLY WILL RESULT IN A NON-RESPONSIVE BID.

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