



311 Hickman Avenue  
P.O. Box 246  
Fulton, MO 65251

# Callaway County Ambulance District

## Request for Proposals



*RFP Number – 2009-006*

*Closing Date – November 12, 2009*

*Closing Time – 0900 Hours*

*Ambulance Remount*

*Prepared by*

*Charles W. Anderson, Director*



## **REQUEST FOR PROPOSALS**

The Callaway County Ambulance District, Fulton, Missouri will accept proposals for remounting an Osage 168" aluminum body from a 2003 Ford E-450, 158" WB chassis with a 7.3L diesel engine to a 2010 Ford E-450, 158"WB chassis with 6.0L diesel engine.

This specification calls for the remounting of one (1) Ford E-450 ambulance. The District requests the option of awarding to the successful bidder a second unit to be remounted immediately after the first unit is completed at the same price quoted in this proposal.

Submit proposals to: Callaway County Ambulance District  
P.O. Box 246  
Fulton, MO 65251  
Attn: Charles W. Anderson, Director

Proposals must be received no later than 9:00 a.m. on November 12, 2009 at which time they will be opened.

**Proposals must also include the attached signature affidavit completed and signed by the vendor.**

**The attached Pricing Sheet must be completed. Alternative pricing sheets will not be accepted!**

The Callaway County Ambulance District reserves the right to reject any or all bids when deemed in the best interest of the Callaway County Ambulance District.

## **1.0 Conversion**

### 1.01 Dismount

Disconnect all mechanical, electrical, and medical systems between chassis and module. Lift module from chassis and position so as to allow full inspection of under structure.

### 1.02 Inspection

Inspect all exposed structural framing, welds, tie down braces and gussets for cracks, warpage, excessive wear and corrosion.

Minor damage shall be repaired under the original bid. Excessive undisclosed damage unknown by the service will be brought to the Customer's attention. The Customer will determine the action to be taken.

### 1.03 Mounting

Install new frame to module with Ford recommended separator cushions and mounting bolts. Module when mounted shall be in square with frame and cab. Tie down brackets shall be secured, and torque per Ford specifications.

Install a non-electrolytic barrier and new stainless steel bolts between cab and module. Silicone seal interface eliminating air and water leaks. All harness or hose access ports into module shall be sealed with grommets and silicone sealed.

## **2.0 Electrical System**

### 2.01 Cables

Install new cables for all primary load-carrying circuits. The cables shall be "0" gauge or larger and rated as welding cable. Copper lugs will be machine crimped. Weatherproof Heat Sink material will be added to all cable ends. There will be a 200 amp fuse located next to the batteries and a 275 amp battery switch located behind the driver's seat.

Zipper loom heat resistant harness material will cover all cables.

### 2.02 Components

200 Amp Fuse	4—cb Fuse Blocks
275 Amp Battery Switch	1—3/8 Terminal Stud
Replace Solenoid	4—Terminal Strips
Replace Hall-Effect Cables	

### 2.03 Wiring

The chassis will be rewired and upgraded to comply with current Federal specification and chassis manufacturer's recommended guidelines as needed. All

wires will be rated for 125% of the expected load and have heat resistant GXL rated or better insulation. This insulation will be color coded as to function. All wires will have circuit names stamped every 4" along the wire.

All ends will have insulated crimp on connectors. Splice connectors (barrel type) will only be used to connect a hardwired component to its circuit wire. Any wire connection exposed to weather will be weatherproof heat shrunk insulation.

All wires will be run in protective zipper loom. This looming shall be heat resistant. All harnesses will be secured with metal straps and wire ties. Harnesses passing through metal barriers or over edges will have grommets or edge protection added.

All engine looms will be rerouted inside cab to protect the loom and prevent heat damage from chassis. Scotchlock or non-crimping type devices will not be used. A junction box will be added behind driver seat.

#### 2.04 Reinstallation

All remaining electrical components not scheduled for replacement shall be cleaned and tested prior to reinstallation. Any component showing excessive wear or damage shall be brought to the Customer's attention. Customer will determine action to be taken.

#### 2.05 Warning Lights

Replace Intersection lights on front Fenders with Whelen 700 series **LED**.  
Replace front grill lights, four Whelen 500 **LED**, red.  
Replace rear brake and turn signal assembly, Whelen 600 series **LED**.  
License plate lights  
Replace Reverse Lights  
Replace all upper Clearance lights with **LED**

### **3.0 Chassis and Cab**

#### 3.01 Automatic Throttle

Connect automatic throttle under hood with 3 amp fuse.

#### 3.02 Block Heater

Re-wire Ford engine block heater into shoreline system.

#### 3.04 Console

Install a new console, including switches and switch panel between front seats against the engine cover. Siren head and meters will all be reused. A new hour meter will be

installed. Room for a limited number of two-way radios will be provided. Two drink cup holders will be installed. Access to OEM controls will not be restricted.

Additionally, a storage console for clip boards and note books will be installed aft of the switch console.

### 3.05 Exhaust

Exhaust tail pipe will be extended, if needed, to prevent fumes from entering patient compartment.

### 3.06 Fuel Tank

Modify gas tank filler neck to fit module as needed. Install a new fuel filler hose(s) and OEM plumbing.

### 3.07 Reinstallation

All remaining components not scheduled for replacement on cab, will be cleaned and inspected prior to reinstallation. All metal finish parts will be polished and buffed to a bright shine. All components will be installed/ reinstalled with non-electrolytic gaskets or barriers and fastened with marine grade stainless steel screws or rivets.

### 3.08 Cab Running Boards

Remove, polish and reinstall if coming off the same body style chassis.

### 3.09 Siren

Remove, if in front console, the existing siren from the old chassis. Inspect and test for proper operation and reinstall.

### 3.010 Siren Speakers

Install Cast SA 6007 siren speakers in lower section of bumper.

## **4.0 Paint and Body**

### 4.01 Cab

A Dupont base coat/clear coat paint system will be used to paint matching stripes on cab. DOT lettering on hood, one Mirror Image 4", two Star-of-Life 6".

### 4.02 Remount Modular Body Repaint

#### 4.02A Disassembly

- Remove all clearance, warning, and tail lights, lightbars, rub rails, rain guards, stone guards, and rear bumper.
- Remove all doors and disassemble them by removing hinges, inner door panels, windows, insulation, latches, rotary latches, door seals and door switches.

#### 4.02B Body Preparation

- Remove all lettering and decals
- Perform all necessary body work to eliminate minor dings and dents.
- Remove all paint from box and doors by **media-blasting** to bare metal.
- Examine body for stress cracks, and weld as needed.
- Apply body putty to minor dents and over weld points.
- Sand the entire box and doors with 180 grit sand paper.

#### 4.02C Paint Preparation and Painting

- Box jams and compartments are sealed against overspray.
- Wipe all parts to be painted with 225S Dupont Aluminum prep.
- Spray box and doors with (1) coat of Dupont Variprime etching primer.
- Spray the top of the box with (2) coats of Dupont Variprime etching primer.
- Spray (2) heavy coats of Euro primer filler.
- After drying, the box and doors are inspected for pinholes and imperfections. All suspect area's are marked and filled with Pirahna spot putty.
- The box and doors are coated with 3M guide coat.
- Everything is then sanded with 320 grit sand paper.
- The box is blown off, tape is pulled and compartments resealed and wiped.
- All seams or corners then get new seam sealer applied.
- The box is blown and tacked off.
- The box and doors are sprayed with V.S. sealer.
- Dried sealer is inspected for dirt and sanded with 2000 grit sand paper.
- The box and doors are tacked off and sprayed with (3) coats of Dupont basecoat.
- Basecoat is sanded and tacked.
- Three coats of Dupont Chroma-clear are applied.

#### 4.02D Re-assembly

- The box is mounted onto the new chassis, using all new body pucks and bolts
- The doors are re-assembled replacing any bad latches
- The doors are reinsulated with new insulation

- New door seals are installed.
- New door switches are installed.
- New warning lights and stone guards are re-installed

#### 4.02E Customer-Specific Paint Stripes

The completed truck is taped off for two color stripping to match District fleet. Blue and Yellow with “heartbeat design” on both sides and on rear doors.

#### 4.02F Fuel Filler

Existing fuel filler will be removed polished and seal before reinstalling.

### **5.0 Module Interior**

#### 5.01 Heater-Air Conditioning Unit Module

Replace existing rear heater/air conditioner. A high output unit with three-(3) speed fan and thermostat temperature control shall be used. Controls shall interface with current set-up on action wall. Replace all hoses, fittings, valves, clamps and solenoids with new OEM approved components. A 50% solution of antifreeze (heater) and 134A coolant (A/C) will be added. Fluid pressure, electronic leak detection and temperature change testing will all be performed in accordance with Federal guidelines.

Replace thermostat at the action area.

#### 5.02 Oxygen System

Inspect oxygen system for proper operations, pressure test. Notify customer if any problems are found.

### **6.0 Additional Changes to be Performed**

Remove and replace front lightbar with 7 Whelen 700 series R/B **LED**, clear lens, new mounting housings.

Remove and replace nine (9) Whelen 900 series warning lights with Whelen 900 series Linear **LED** with clear lens and new chrome flanges.

Install six (6) new scene lights and chrome flanges.

Install new Grover Brand air horns, two (2) under bumper, with switch in cab console. Provide optional larger capacity air tank to improve length of horn operation.

Replace Kussmal Auto – Eject shoreline connection.

Replace the reflective tape insert in the lower rub rail with Blue reflective tape.

Replace headliner in patient compartment with new headliner and eliminate two fluorescent lights. Install eight (8) Whelen round LED dome lights. Wire timer switch to one bank of LED dome lights.

Eliminate walk thru door and seal off cab to box connection like in Type I with a small sliding window.

Remake the Electrical compartment to make smaller and angle toward squad bench.

Modify three six glove storage holder over side entry door to hold five glove sizes.

Redesign bulkhead for new four vent HVAC system.

Polish front Corian countertop.

## **7.0 Quality Assurance**

All systems and functions will be inspected for quality and performance. The ambulance will be test-driven for street and highway operation. Test fuel filler with a minimum of 25 gallons of fuel to assure unrestricted flow.

The module interior will be cleaned using industrial strength solvents. Exterior of the vehicle will be cleaned and prepped before delivery.

## **8.0 Documentation**

Warranty information will be provided as well as touch-up paint and paint color codes shall be provided. Owner's manual with instruction for all new equipment and warranty policies will be provided.

Callaway County Ambulance District  
Pricing Sheet

Cost for this specification.....\$\_\_\_\_\_

Allowance for trade-in of 2003 chassis.....\$\_\_\_\_\_

NET COST to District for 2010 remount.....\$\_\_\_\_\_

The request for second remount is accepted.....YES\_\_\_\_\_ NO\_\_\_\_\_

Signature Affidavit

By submitting this proposal, we certify that the following:

- We have not directly or indirectly entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition.
- No attempt has been made to induce any other person or firm to submit or not to submit a proposal.
- This bid has been independently arrived at without collusion with any other bidder, competitor or potential competitor.
- This bid has not been knowingly disclosed prior to the opening of bids to any other bidder or competitor.
- Under the penalty of perjury, the above statements are accurate.

The undersigned, submitting this proposal, hereby agrees with all the terms, conditions and specifications required by the Callaway County Ambulance District in this RFP, and declares that the attached bid and pricing are in conformity therewith.

\_\_\_\_\_  
Name (Type or Print)

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Title

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Signature

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Company or Firm

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