



**ACCEPT ONLY THE BEST**

**CET Fire Truck  
Glider kit #1**

Revised April 24<sup>th</sup> 2014

**Cab & Chassis**

The truck shall be supplied by the customer.

The glider kit is made for dual rear wheels truck with a « back-of-cab-to rear-axle » (CA) of 60”.

**CET Flat Bed Body**

One (1) custom Fire Application aluminum flat bed body, 110” long x 94-5/8” wide. The aluminum plate used in construction is .100” 3003-H22 polished aluminum alloy treadplate.

Body sub-frame is made from 6061-T6 aluminum tubes and channels. Sub-frame crossmembers are installed every 16”. The channel is 1-1/2” wide x 3” high x 3/16” thick. The body crossmembers shall extend the full width to support the compartment framing and shall be welded to the sub-frame main members.

The Body sub-frame main members consist of 6061-T6 Aluminum square tubing of 2” wide x 6” high x 3/16” thick.

The perimeter shall be made with 1/8” thick forged 3003H14 Aluminum. Forged aluminium brings a strong design that was specially made to embed emergency lighting & designed to fit properly a 4” reflective stripping.

The body shall be attached to the chassis rails with a minimum of four (4) heavy duty “U” bolts (shipped loose). The body shall be separated from the chassis by 3/8” Teflon (shipped loose). Attachment of the body and sub-frame will allow the body to resist from all distortion and off road operational condition.

The body is a modular design to allow removal from the chassis for major repair or mounting on a new chassis. Isolating material between the body and the chassis to be installed

All welding shall be done electrically using 5356 aluminum welding wire.

Rear vertical skirt will be made from 1/8” 3003-H22 polished aluminum alloy treadplate.

Rear skirt to include Signal, brake, reverse lights, D.O.T., license plate & NFPA steps.

Clearance, marker, license plate lights and reflectors will be furnished and installed per D.O.T. Junction box supplied and installed under the flat bed.

License plate light shall be an Eon light with SS polish case that has a light output equivalent to a 10 watt halogen lamp. Eon light to have a 50,000 hr LED life.

LED Signal, brake and reverse lights will be High Quality Grote Automotive lights recessed mount into rear aluminum skirt area of body per FMVSS 108 and CMVSS 108 requirements. Light to be LED Oval with chromed housing.

Two (2) LED Amber marker/clearance lights with chrome housing and clear lens will be installed on the front side of the bed, one (1) each side. Two (2) LED Red marker/clearance lights with chrome housing and clear lens will be installed on the rear side of the bed, one (1) each side. Three (3) LED Red marker/clearance lights with chrome housing and clear lens will be installed at the rear center of the bed. Amber & Red reflectors shall be installed around the perimeter of the bed as per DOT requirement.

Two (2) heavy duty tow eyes shall be shipped loose (NFPA 1906 requirement). The tow eyes will be fastened directly to each rear chassis frame rail.

The rear of the flat bed shall have two (2) non-skid rear steps for access to pump and controls. The rear steps shall be made so it can be folded up for use in rough terrain. All steps shall sustain a minimum static load of 500 lb (227 kg) without deformation (NFPA 1906 & 1901 compliant). Stepping height from the ground to the first step shall not exceed 24".

An angle of approach and an angle of departure of at least 20 degrees shall be maintained at the front and the rear of the vehicle when it is loaded.

This will be no exception to the body specifications. Pre-built commercial flatbed bodies are not acceptable.

### **Compartments**

All compartments will be made with 1/2" polypropylene sheet.

All compartments shall have a minimum of one (1) louvered panel bolted into a wall to provide the proper airflow inside the compartment.

All compartments shall be of sweep-out type with no lip at bottom edge for easy cleaning.

All door lock mechanisms shall be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside into the lock area.

### **Transverse compartment**

One (1) transverse compartment of 13-1/2" long x 22" high x 94" transverse shall be installed behind the chassis cab. Each side door shall be horizontally hinged, drop down style, with retaining cables.

The overlap polypropylene compartment doors shall be securely attached to the body with a full stainless steel hinge. Door openings shall be fitted with solid neoprene weather strip completely sealing the perimeter of the compartment door opening. Drop down door shall be installed with retaining cable. Compartment door seams is sealed with a pliable automotive body caulking. The compartment doors is latched with recessed, polished stainless steel "D" ring handles and locks.

### **Top Hose Lay**

One (1) fully enclosed cross lay tray made from polypropylene sheet shall be supplied and installed on top of the front transverse compartment.

Dimension of the Storage Tray to be full length of the front transverse x 9" wide x 8" high.

Hose lay shall have a top hinge polypropylene cover for easy loading and protective black nylon net with snaps on each side.

The area shall be designed to prevent the accumulation of water and allow for ventilation to aid in drying hose in the storage area. Black Turtle Tiles to be installed on the floor.

### **Right (Passenger) Side Compartment**

One (1) 62" long x 30" high x 22" deep compartment behind the chassis, located at the right (passenger) side of the water tank.

Compartment door shall be equipped with Amdor brand roll-up doors complete with the following features: door ajar switch, LED Lumabar light, aluminum double wall slats with continuous ball & socket hinge joint and recessed slat seal, double wall reinforced bottom panel with stainless steel lift bar latching system, reusable slat shoes with positive snap-in securement, one-piece aluminum door track / side frame, top gutter with non-marring seal, non-marring side seals, bottom seal, with all wear component material to be Type 6 Nylon. Roll-up doors shall be anodized gray.

There shall be a set of tracks for future installation of adjustable shelf(s) in each compartment. These tracks shall be installed vertically on the walls of the compartment(s) and shall offer a multitude of height adjustment possibilities.

The area shall be designed to prevent the accumulation of water and allow for ventilation to aid in drying hose in the storage area. Black Turtle Tiles to be installed on the floor.

One (1) switch shall be installed so the compartment light(s) shall come on only when compartment door is open.

### **Left (Driver) Side Compartment**

One (1) 62" long x 30" high x 22" deep compartment behind the chassis, located at the left (driver) side of the water tank.

Compartment door shall be equipped with Amdor brand roll-up doors complete with the following features: door ajar switch, LED Lumabar light, aluminum double wall slats with continuous ball & socket hinge joint and recessed slat seal, double wall reinforced

bottom panel with stainless steel lift bar latching system, reusable slat shoes with positive snap-in securement, one-piece aluminum door track / side frame, top gutter with non-marring seal, non-marring side seals, bottom seal, with all wear component material to be Type 6 Nylon. Roll-up doors shall be anodized gray.

There shall be a set of tracks for future installation of adjustable shelf(s) in each compartment. These tracks shall be installed vertically on the walls of the compartment(s) and shall offer a multitude of height adjustment possibilities.

The area shall be designed to prevent the accumulation of water and allow for ventilation to aid in drying hose in the storage area. Black Turtle Tiles to be installed on the floor.

One (1) switch shall be installed so the compartment light(s) shall come on only when compartment door is open.

### **Wheel Chocks**

Medium Kochek Wheel Chocks with storage brackets shall be provided and mounted underneath the flatbed behind the chassis cab on the driver side.

### **Rear Mud Flaps**

Rear rubber mud flaps shall be shipped loose.

### **Electrical components**

A 12 volt electrical system is supply.

The wiring is secured in place, readily accessible and protected against heat, water and physical damage.

The complete electrical system is separated from the chassis wiring system except for a power supply connection at chassis battery.

All wiring will be run in heat and moisture resistant plastic convoluted split loom. Loom shall be held in place with screw-mounted holders spaced at appropriate distance.

Grommets will be used where conductors or loom pass through metal.

Power control relays and solenoids shall have a direct current rating of 125 percent of the maximum current for which the circuit is protected.

Conductor insulation will conform to S.A.E. requirements. All circuit are protected by automatic reset circuit breakers.

All wiring furnished will conform to the national Electric Code.

All circuits will be wired in conformance with S.A.E. J1292, Automobile wiring standard.

All wiring will be function worded schematically.

A set (2) of electric diagram will be remit upon delivery.

Clearance, marker, license plate lights and reflectors will be furnished per D.O.T.

### **Emergency Lighting**

One (1) 56" LED Whelen Lightbar, Liberty model #JE2NFPA shall be provided and mounted on the poly headrache.

Mounted on front Ford grill, Two (2) Whelen M4 series Linear Super LED, one (1) each side, red with clear lens with a chrome flange.

Mounted each side of the chassis, Two (2) Whelen M4 series Linear Super LED, one (1) each side, red with clear lens with a chrome flange.

### **Telescopic Scene Lights**

Two (2) 300W telescoping 12v scene lights mounted at the front of the Truck Body. The light shall be single head design. One light mounted on each side will increase visibility around the apparatus during night or light operations. Model is to be Fire Research FCA512-D30. On/Off lamphead switch FCAoption-ON to be installed on each light head.

### **Back-up Alarm**

One (1) back-up alarm that meets the type D (87 dba) requirements of SAEJ994 shall be provided at the rear of the apparatus. It will activate when the transmission is placed in reverse.

### **Door Ajar**

One (1) door ajar warning light shall be provided and shipped loose to indicate an open body compartment door. The light shall be properly marked with a sign "Warning Door Ajar" shipped loose.