



**ACCEPT ONLY THE BEST**

**CET Fire Truck  
Glider kit #8**

Revised May 19<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.

#### **Right side Integrated Pre-Connect Hose Tray**

Integrated on the right side of the flat bed body, one (1) enclosed pre-connected hose tray made from aluminum to hold a minimum of 250' of 1 -3/4" hose.

Hose Tray to have a flip down door with latches. Tray design shall allow hoses to pay out in any direction and quick hose storage when finished.

Hose tray shall have a 1-1/2" Pre -Connect elbow.

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 and bolted on the floor.

#### **Left Side Integrated Pre-Connect Hose Tray**

Integrated on the left side of the flat bed body, one (1) enclosed pre-connected hose tray made from aluminum to hold a minimum of 250' of 1 -3/4" hose.

Hose Tray to have a flip down door with latches. Tray design shall allow hoses to pay out in any direction and quick hose storage when finished.

Hose tray shall have a 1-1/2" Pre -Connect elbow.

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 and bolted on the floor.

### **Compartments**

All compartments will be made with 1/8" tread plate aluminum 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.

### **Transverse Compartment**

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

The overlap aluminum diamond plate 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. The drop-down door shall be retained with cable. Compartment door seams is sealed with a pliable automotive body caulking. The compartment door is latched with recessed, polished stainless steel "D" ring handles and locks.

### **Top Transverse Storage Hose Tray**

One (1) aluminum storage hose tray shall be supplied and installed on top of the transverse compartment.

The dimensions of the storage tray shall be full length of the top compartment, 94" L x 9 - 3/8" W x 8" H.

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 and bolted on the floor. The storage tray shall be covered with black canevas and rear net.

### **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.

The overlap aluminum 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. Lift up doors shall be installed with gas hold open struts. The 1/8" compartment doors are latched with recessed, polished stainless steel "D" ring handles and locks.

The aluminum doors complete with the following features: door ajar switch and two (2) LED strip lights.

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

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 compartment floor will be covered with Plastic Tiles. The tiles shall be black with yellow angled leading edges.

### **Right (Passenger) 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.

The overlap aluminum 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. Lift up doors shall be installed with gas hold open struts. The 1/8" compartment doors are latched with recessed, polished stainless steel "D" ring handles and locks.

The aluminum doors complete with the following features: door ajar switch and two (2) LED strip lights.

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

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 compartment floor will be covered with Plastic Tiles. The tiles shall be black with yellow angled leading edges.

### **Rear Storage Compartment**

One (1) integrated to the platform compartment approximately 5" high x 24" wide x 104" long for suction hose storage and folding ladders or pike poles. A flip down horizontally hinges door is furnished at the rear. The interior compartment is made from polished 3003-H14 alloy smooth plate.

### **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, Justice 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.