



ARFF Fire fighter

In an airport emergency, time is critical. Airport Rescue & Fire Fighting (ARFF) vehicles are the heavy-duty answer to jobs that don't leave room for mistakes.

Cutting edge technology and an intuitive operating system put control of the entire apparatus in the hands of a single operator. That way, you can concentrate on the task at hand. The ARFF vehicle comes in multiple sizes with varying degrees of power. All are fully customizable. Its unique new suspension combines a 4-link control rod design, variable rate coil springs, stabilizer bars and a rigid live axle for high-speed stability and off-road ride characteristics. It's tough, comfortable and packs a big punch.

Fire Fighters Features

HEAVY DUTY SUBFRAME

The sub frame on all Superior pumpers is constructed of heavy-duty aluminum extrusions. The rear cross-member is a solid aluminum Ibeam, 3" high by 3" wide. Other cross-members and sub frame main members are made of 3"x 3" square aluminum tubing with a 3/8" wall thickness. This sub frame provides a solid and durable base for the rest of the body framework and gives your pumper the strength to last in demanding conditions.

HIGH STRENGTH CONSTRUCTION

Every Superior body is framed by high-strength aluminum extrusions. Slots in the extrusions allow the body's 3/16" aluminum sheets to slide in, creating a durable tongue-and-groove assembly. This interlocking of aluminum extrusions and body plates creates an extremely strong, yet lightweight vehicle that permits more payload and offers many years of apparatus service. Superior bodies are backed by a ten year structural warranty.

STAINLESS STEEL PLUMBING

Every Superior pumper features stainless steel plumbing as standard. Stainless steel plumbing is light weight, provides a cleaner installation and reduces possible corrosion of the plumbing lines. All stainless steel piping used in Superior pumpers features a five year standard warranty against corrosion.

ELECTRICAL INSTALLATIONS

Our SXL flame-retardant wiring is function-coded every 3" and color coded for easy troubleshooting. Wiring is installed along the body extrusions providing easy access for maintenance and protection from the elements. The electrical panel is recessed into the front body compartment wall, protected from the elements and easily accessible for servicing. Best of all, Superior provides a customized schematic showing exactly how your truck was wired. This reduces service time should problems arise.



POLYPROPYLENE WATER TANK

At Superior, we manufacture our water tanks from corrosion-proof polypropylene material. Our thermal welding process gives consistent weld joints to prevent leaks and provide high strength. Each tank is covered by a lifetime warranty and repairs are made on-site for reduced down time.

BOLT-ON TAILBOARD AND RUNNING BOARDS

The bolt-on tailboards and running boards on all Superior trucks are constructed of 3/16" aluminum checker plate and are spaced from the body by nylon spacers. This allows water, salt and dirt to drain away and makes it easy to keep your vehicle clean. In addition, these Bolton style components are easy to replace should they be damaged in a collision.

ANODIZED ALUMINUM HOSEBED

The hosebed floor on Superior pumpers is constructed of anodized aluminum extrusions with a ribbed-top surface. These are maintenance-free and durable for long life.

PUMP PANELS

Gauges and control handles are placed in a linear arrangement for ease of use and identification. Colour-coded panel tags make it easy for the pump operator to identify the appropriate control handle. Sidemount or top-mount panels are available.

SIKKENS PAINT SYSTEM

Sikken's custom paint system provides superior durability and protection against salt spray, gravel, dirt, moisture and ultraviolet exposure.

THREE-STEP PAINT SYSTEM

1) Metaflex CR Primer: A transparent self etching Washprimer with superior corrosion resistance which actually becomes part of the aluminum. This eliminates the need for an acid wash.

2) Autocryl Filler: An acrylic urethane primer surface that provides a barrier coat before the top coat helps to create an extra smooth surface. It also enhances durability and damage resistance.

3) Autocryl Top Coat: A two-part acrylic urethane enamel produces a high-gloss finish highly resistant to acid rain, industrial pollution, road salt, dirt and other harsh road conditions.



Special Vehicle Features

- Glassfiber reinforced polyester (GRP) cab and body designed to meet the tough ECE R-29 crashworthiness test.
- GRP components have excellent corrosion resistance to saltwater, galvanic reaction, and many chemicals.
- 80° up and 30° down visibility with a panoramic view to the sides for a commanding view from the cab.
- Ergonomically designed cab with plenty of headroom and seating for up to four persons
- Independent suspension system with variable rate coil springs on all axles for superior handling and stability during high-speed turning maneuvers and while traversing rough terrain
- Plenty of unrestricted compartment space to store fire fighting and rescue equipment

MAINTENANCE

<http://www.mushriquiconsulting.com/wwservice.asp>

1.1 MAINTENANCE Package (Optional)

1.1.1 Maintenance Levels

The System Operators or Technical Personnel are responsible for the following Maintenance tasks and include the following:

- i. Preventive Maintenance such as Inspections.
- ii. Preventive Maintenance such as Cleaning.
- iii. Preventive Maintenance such as Services.
- iv. Corrective Maintenance such as Replacement of Items with a High Failure Rate or Wear-out Rate and which can be replaced with ease.
- v. Corrective Maintenance by Replacement of LRU's (Line Replaceable Units, Assemblies, Sub-assemblies etc.) with a High Failure Probability, High Criticality and which are within the Capability.



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- vi. Recovery of Equipment from the Deployment or Units to a maintenance level for Corrective Maintenance.

1.1.2 Maintenance Equipment

Available at all repair facilities

- i. Operating Equipment and Accessories.
- ii. Maintenance Equipment. (Toolboxes)
- iii. Maintenance Items.(Service Packages)
- iv. Spares as required.
- v. Support Equipment as required.
- vi. Special Support and Test Equipment as required.
- vii. Common Support and Test Equipment as required.

1.2 MAINTENANCE ELEMENTS

1.2.1 Documentation

The following documentation is used for vehicle Maintenance:

- i. Operators Maintenance Manual (OMM) for the Operators Maintenance Tasks.
- ii. Maintenance Schedule for the definition of all Preventive Maintenance.
- iii. Workshop Repair Manual (WRM) for Technical Maintenance Tasks.
- iv. Illustrated Parts Breakdown (IPB) to identify Spare Parts.
- v. Illustrated Stock List (ISL) to identify Support Equipment and Spares.

1.2.2 Support Equipment

The following types of support equipment are used for Maintenance:

- i. Support Equipment carried in the Equipment ETS Boxes including Operating Equipment, Accessories and Maintenance Equipment.
- ii. Support Equipment as required for Preventive and Corrective Maintenance.
- iii. Support Equipment required and consists of Special Tools and Common Equipment which are within the Capability.



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1.2.3 Spares

The following types of spares are required for Maintenance:

- i. Spares kept in the Equipment ETS Boxes.
- ii. Preventive and Corrective Maintenance Spares.

1.2.4 Personnel

The following operating and or technical personnel are located at all repair facilities:

- i. Auto Electricians for Vehicle and PSU Electrical.
- ii. Auto Mechanics for diesel and petrol engines.