



FEDERATION INTERNATIONALE  
DE L'AUTOMOBILE

Homologation  
N°:

EX.005.99

FIA SPORT

06 AVR. 1999

Certificat d'homologation pour les ~~systemes d'extinction plombés~~ dans les voitures de course

Homologation certificate for motor sport fire extinguisher systems

### 1. GENERALITIES / GENERAL

- 101 Constructeur  
Manufacturer Fire Extinguisher Valve Company
- 102 Adresse  
Address Unit 11, Arunside Industrial Estate, Fort Road  
Littlehampton, West Sussex, BN17 7QU
- 103 Nom du système  
System name AFFF4000R 104 Dénomination commerciale  
Commercial name 4 litre foam
- 105 Véhicules pouvant être équipés de ce système (Le cas échéant, indiquez si ce système est valide pour tous les groupes)  
Vehicle for which the system may be used (indicate if the system is valid for all groups):  
Designed for all groups
- 106 Photo du système complet  
Photo of the complete system



**2. DESCRIPTION DU SYSTEME / SYSTEM DESCRIPTION**

201 Agent extincteur  
Extinguishant AFFF

202 Capacité totale du système  
Complete Capacity of the system 4 Litres

203 Norme à partir de laquelle a été approuvé l'agent d'extincteur  
Standard from which the extinguishant has been approved EN3

204 Couleur de l'étiquette indiquant le type d'extincteur utilisé  
Colour of the label showing the type of extinguishant used White letters on black background

205 Pression d'utilisation  
Fill pressure 9 Bar

206 Pression minimale  
Min Pressure 8 Bar

207 Si le système est normalement non pressurisé, définir le type de pressurisation  
If system is normally unpressurised define type of pressurisation:

All systems stored pressure

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208 Taille de la bonbonne      Diamètre      Hauteur  
Size of the bottle      Diameter      Height

160 mm      310 mm

209 Poids de la bonbonne  
Weight of the bottle      1.2 kg (unfilled)

210 Système de déclenchement  
Activation system

Manuel / Manual <input checked="" type="checkbox"/>	Electrique / Electric <input checked="" type="checkbox"/>	Automatique / Automatic <input type="checkbox"/>
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*Cocher la mention utile  
Tick off as applicable*

211 Gamme de température d'utilisation  
Operating temperature range - 10 to + 60°C

212 Nombre d'ajutage minimum dans le compartiment moteur  
Minimum number of nozzles in the engine compartment 2

## 2. DESCRIPTION DU SYSTEME / SYSTEM DESCRIPTION

- 213 Photo d'une bonbonne montrant l'étiquette indiquant l'agent d'extincteur utilisé  
Photo of one bottle showing the label of the extinguishant used



- 214 Photo d'un ajutage  
Photo of a nozzle




### 3 ENGAGEMENT DU FABRICANT / MANUFACTURER'S RECOGNITION

Je déclare que le système décrit ci-dessus:

- est conform à la norme FIA sur les systèmes d'extinction plombés dans les voitures de courses
- a passé, sous ma supervision, avec succès l'ensembles des tests décrit dans la norme FIA

I declare that the system described above:

- is in conformity with the FIA standard for motor sport fire extinguisher systems
- has passed, under my supervision, all the tests described in the standard.

Date	Nom et signature Name and signature	Visa d'approbation Endorsement stamp
31-3-99	DEREK JONES 	

#### ANNEXES / APPENDICES

- Rapport de test / Test report
- Instruction d'installation / Installation instructions
- Instruction de maintenance / Maintenance instructions



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Safety Devices Limited  
30 Regal Drive  
Soham  
Cambridgeshire  
CB7 5BE  
England

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### **Electronic Plumbed - In Fire Extinguisher System Installation Instructions :**

*This is a SAC Tech system using AFFF Foam. All fire extinguisher systems should be serviced every two years.*

#### **IMPORTANT - PLEASE READ THE FOLLOWING BEFORE COMMENCING ANY INSTALLATION**

1. THE CONTROL BOX DOES NOT CONTAIN A BATTERY. YOU WILL NEED TO PURCHASE A 9 VOLT PP3 BATTERY
2. DO NOT PLUG THE LOOM INTO THE CONTROL BOX UNTIL THE FIRING BUTTON CONNECTIONS ARE COMPLETE
3. DO NOT ARM YOUR SYSTEM UNTIL YOU HAVE COMPLETED THE ENTIRE INSTALLATION
4. INSERT THE BRAIDED HOSE INTO THE CONTROL BOX BEFORE MAKING THE CONNECTION INTO THE PRESSURISED CYLINDER. PUSH THE HOSE INTO THE VALVE AND THEN CHECK THE PRESSURE RECORDED ON THE CONTROL BOX GAUGE

#### **Kit Contents:**

- 1 x fully pressurised cylinder fitted with one way valve.
- 1 x vacuum formed tray with metal retaining straps.(Laser profiled steel cradle for Pro-AI)
- 1 x set mist spray nozzles.
- 1 x Dekabon tube.
- 1 x Set of Tee pieces
- 1 x pack tube clips.
- 1 x Braided hose.
- 1 x *Safety Devices* 'E' sticker.

#### **Installation Instructions:**

1. **Bolt** the cylinder support cradle to the vehicle structure **securely**.
2. Mount the electronic control box in a suitable location.
3. Mount the firing switches to enable operation **in accordance with current regulations**, one inside the vehicle within easy reach of the driver (and co-driver where applicable)(18.75mm diameter hole), and one on an outside panel (22.5mm diameter hole), adjacent to the electrical cut-out switch. Apply the 'E' decal adjacent to the external firing switch.
4. Wiring; Wiring harness has 2 paired cables with bared ends. (Note: Firing switches may be pre-wired in some cases.)
  - a. Firing switch 1 & 2 are connected to the BLACK pairs of wires.  
Install 9v PP3 type dry battery into control box. (Note battery is **not** supplied.)
5. Plumbing: The Dekabon tube push fits into the various fittings. Note that the supply from the control box should **enter** through the **centre** branch of the 'T' piece and exit through the end branches. Try to keep the lengths of the tubes to each nozzle as equal as possible. Ensure that the tubes are fully pushed home and locked into the fitting - it should not pull out when correctly fitted. Tubes may be released by depressing the entry ring on the fitting, then pulling out the tube whilst keeping the ring depressed. Ensure that all tube runs are securely clipped and cited to avoid accidental damage.

*For three nozzle systems, run a main supply to the engine compartment, then use the supplied 'T' piece to split the flow to two of the spray nozzles. The nozzles should be cited to enable maximum coverage of both sides of the engine but with particular attention to*

**This is a safety item! Check Your Installation Carefully! If In Doubt - Ask!**

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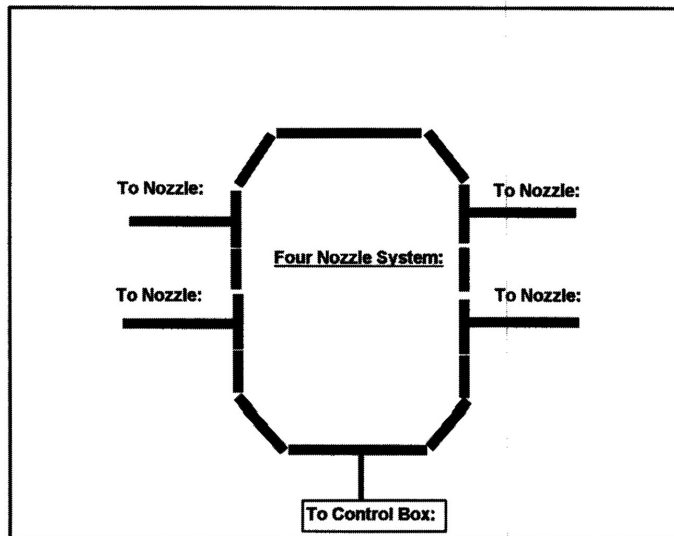
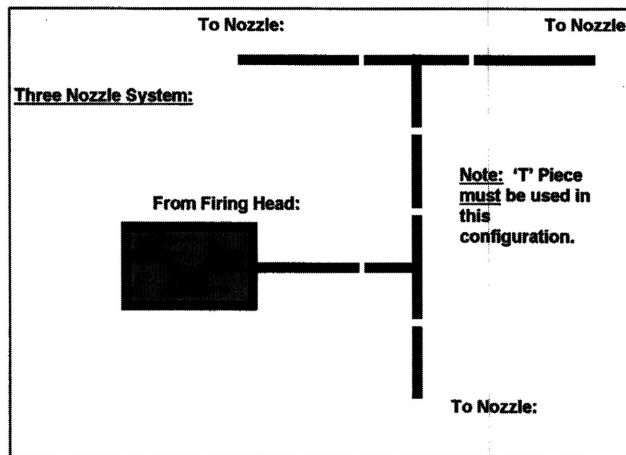
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electrical and fuel systems. Use the additional 'T' piece and nozzle to supply the cockpit outlet.

For four nozzle systems, a 'ring' circuit with nozzles running from the centre branch of the 'T' piece is used. The two engine compartment nozzles should be cited to achieve maximum coverage with particular attention to fuel and electrical systems. The two cockpit nozzles should be cited under the dash panel pointing in the direction of the drivers feet and legs.

Plumbing Schematics:



**This is a safety item! Check Your Installation Carefully! If In Doubt - Ask!**

### Fire Extinguisher Maintenance.

The Extinguishers should be serviced every 2 years, either by the manufacturer or his agent as follows:

Bottles should be examined for signs of corrosion, abrasion and paint finish. Should the service engineer decide that the bottle has been subject to corrosion or exhibits abrasions that may affect performance, the bottle should be discarded.

The bottle should be pressure tested to at least one and a half times its working pressure. Extinguishers with poor paint finish should be refurbished. The interior of the bottle must also be inspected for signs of damage or corrosion.

All seals should be replaced.

The operating head should be cleaned and tested. If found to be faulty it should be either repaired or replaced.

Nozzles should be checked for damage/possible blockage. They should be tested to ensure that they are in good working order.

Extinguishers contents should be replaced.

Service records including the bottle label should be updated, indicating the date on which the service was undertaken, the work carried out and the date on which the next service is due.

It is recommended that an approval label from the ASN of the Country concerned be fitted at the point of manufacture or service in order to help competitors to select approved products and the scrutineers to identify them.