

## Nozzles and Pipes -

Always cut pipes with a rotary pipe cutter and deburr the inside of the tube, this will prepare the pipe for fitting to the connectors which are all push in. Ensure all pipes are fully inserted into the fitting. Your system is supplied with 6 nozzles, A minimum of 2 must be fitted in the cockpit. A minimum of 3 should be fitted to the engine bay, **ALL 6 NOZZLES SHOULD BE USED**. It is recommended that a vehicle with a turbocharger, 4 nozzles are fitted to the engine bay, 2 on the inlet system and 2 on the Turbocharger. On normally aspirated engines 3 in the cockpit and 3 in the engine bay.

## - Maintenance -

Ensure the pressure gauge is in the green. Visual inspection of all components for damage, including nozzles tubes and cylinder, ensure cables are well lubricated with grease. Every 2 years the system must be returned for service and revalidation, to PD Extinguishers or its service agents. As this system has a stainless-steel cylinder this system has a 16-year safe working life.

## - Replacement pipe, Fittings and Nozzles -

Extra or replacement pipes fittings and nozzles are available from PD Extinguisher's or its authorised agents.



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Revision 1



## 4.25 Litre AFFF Fire Extinguishing System

Electronic Operation

## Installation & Maintenance Instructions



Thank you for purchasing a PD Extinguishers System, this extinguisher is designed to suppress fire in a competition saloon car, giving the occupants of the car time to exit the vehicle to safety. This system complies with its FIA Homologation only when installed in its entirety.



Kit Illustration



Cone Nozzle



Flat Spray Nozzle

### -Mounting the Cylinder-

Your cylinder should be mounted within the cockpit, it is best mounted to allow easy checking of the pressure gauge and service record. Attach the brackets to the vehicle floor with a min of 8 (4 in each bracket) M6 bolts nuts and washers. When securely bolted and the straps are tight, no longitudinal movement will occur however longitudinal support can be added or the unit may be mounted between sill and tunnel or other supporting structures.

### -System Components-

1 x Cylinder with Valve	2 x Rolls of Pipe	2 x E Stickers
4 x Cone Nozzles	2 x Flat Spray Nozzles	1 x Bulkhead Fitting
2 x Bracket including Straps	4 x Tee Nozzle Fittings	1 x Tee Pipe Fitting
8 x M6 Bolts Nuts and Washers	2 x 90° Nozzle Fittings	1 x Instruction Manual

### -Extinguishant and Ingredients-

**Contact with the skin:** Take off contaminated clothing immediately. Wash the areas of the body that have come into contact using plenty of running water and soap. **Contact with eyes:** Wash immediately and plenty with running water with open eyelids for at least for 10 minutes, then protect your eyes with sterile gauze or clean cloth. Seek medical advice if irritation continues. **Inhalation:** clear the air of the ambient. Remove quickly the subject from the contaminated atmosphere and keep him in ventilated atmosphere. In case of malaise, consult a doctor. **Ingestion:** Do not induce vomit. Immediately take medical advice showing this information following.

### -Ingredients-

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethane-1,2-diol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28	1.5 to 3	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
2-(2-Butoxyethoxy)ethanol	(CAS-No.) 112-34-5 (EC-No.) 203-961-6 (EC Index-No.) 603-096-00-8 (REACH-no) 01-2119475104-44	0.24 to 0.6	Eye Irrit. 2, H319
2-methyl-2,4-pentanediol substance with a Community workplace exposure limit	(CAS-No.) 107-41-5 (EC-No.) 203-489-0 (EC Index-No.) 603-053-00-3 (REACH-no) 01-2119539582-35	0.0 03 - 0.006	Skin Irrit. 2, H315 Eye Irrit. 2, H319

### -Electronic Actuation-

Actuation buttons should be mounted as follows. 1 to be mounted externally below the windscreen. 1 to be mounted internally in easy reach of occupants (as applicable) The control box pictured below must be mounted to give easy access to arm the system or do a system test.



### Unit operation

On pressing the ARM button, all 3 LEDs will illuminate for 5 seconds during its self-test After 5 seconds, the yellow battery led and red test led will go off unless a fault is detected. A flashing yellow led indicates the batteries should be replaced. a flashing red led will indicate there is a cable fault, i.e the extinguisher may not be plugged in. Immediately on pressing Arm, the firing buttons will be active.

**Note two different sockets, care should be taken to avoid damage by fitting wrong plug.**

### Button Test

Once the system has been armed and **disarmed**, pressing the firing button when the device is not armed will perform a self-test. The battery and test LEDs will illuminate for 5 seconds, and then show any faults found as above. The device is fitted with three AA batteries. These are designed to last 100 hours whilst armed, or 2 years minimum idle, and should be replaced with good quality high-capacity alkaline batteries. To replace the batteries, unscrew the two screws from both ends of the box disconnect the switch wire plug from the PCB then slide out the PCB, from the side with the sockets taking care of the cable to the switch assembly.

