

Section 2 – Installation & Maintenance Instructions.



F-TEC4000EK

Electronic Plumbed-In Fire Extinguisher System Installation Instructions

This is a Biofilm 3S Premium - homologated foam fire extinguisher system. To maintain optimum performance all systems should be serviced every two years.

IMPORTANT Please read the following before commencing any installation.

1. These instructions should be followed during installation. Please contact us if you require any assistance during installation.
2. The components supplied should be used in accordance with the instructions and any advice we may give you. If you do not comply with the instructions or any such advice, without limitation, any warranty may be invalidated.
3. This product should be returned every 2 years from date of manufacture to FEV or an appointed service agent, for a complete check and service refill – and re-certification for a further 2 years.
4. The control box does not contain a battery; you will need to supply a 9-volt PP3 battery.
5. Do not plug the loom into the Firing Head until the firing button connections are made.
6. Do not arm your system until you have completed the battery and circuit test as indicated on the control box instructions supplied with the control box.

KIT CONTENTS

Qty	Description	Part No.	Drawing Item No.
1	Cylinder	F-TEC4000EK-C	1
1	Control Box	FE-CB-CE	2
1	Internal fire button	FE-INT-FB	3
1	External fire button	FE-EXT-FB	4
4.7mtr	10mm Aluminium tubing	FE-ALI-10	5
4.3mtr	8mm Aluminium tubing	FE-ALI-8	9
2	Cockpit Nozzle with 10mm x ¼ Metal Swivel Elbow	FE-FOAM-C-PIT-NOZ-8-R	8
4	Engine Nozzle with 8mm x ¼ Metal Swivel Tee	FE-FOAM-ENG-NOZ-8-R	11
		FE-M-TEE-CON-8X-1/4	12
1	Metal Tee Connector 10-10	FE-T-CON-10	7
1	Metal Tee Connector 8mm with Metal Straight Connector 10mm x 1/4	FE-T-CON-10-8	10
1	Metal Y Connector 10mm	FE-Y-CON-10	6
8	8mm Tube clips	FE-P-CLIP-M-8	
8	10mm Tube clips	FE-P-CLIP-M-10	
1	Large 'E' label	FE-E-L	
1	Small 'E' label	FE-E-SL	

ALTERNATIVE CONTENTS

Qty	Description	Part No.	Drawing Item No.
1	8865 Control Box	FE-CB-8865	

Fire Extinguisher Valve Co Ltd
Unit 10, Ford Lane Business Park, Ford Lane, Ford, Nr Arundel, West Sussex, BN18 0UZ,
Tel + 44 (0) 1243 55 55 66 Fax + 44 (0) 1243 555 660

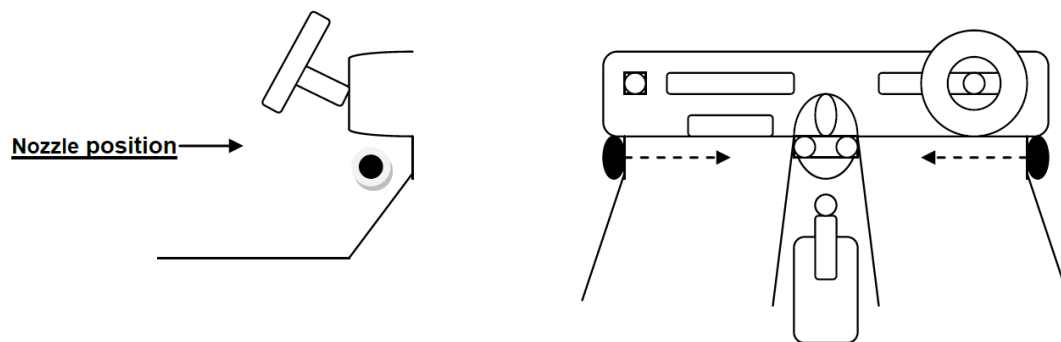
INSTALLATION INSTRUCTIONS

1. **BOLT** the cylinder-mounting 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 label adjacent to the external firing switch.
4. **WIRING**. Wiring harness has 2-paired cables with bared ends. (A) Firing switches 3 & 4 are connected to the black pairs of wires. Install 9V PP3 type dry battery into control box (note battery is not supplied).

PLUMBING - IMPORTANT Please note 8mm and 10mm piping supplied fits into various fittings in accordance with assembly drawing no F-TEC4000EK ensure that all push in connections are secure. Note that the supply from the firing head should enter the centre branch of the Y connector and exit the two outlets of the Y connector into the two centre branches of the two T connectors the two outlets of each T connector then supply four engine nozzles and two cockpit nozzles.

Engine Nozzles should be positioned in the 4 corners of the engine bay. If in doubt, ask your local Motorsport UK/FIA scrutineer to advise.

Cockpit Nozzles Should be mounted one nozzle on each front door pillars and just below the bottom line of the dashboard. pointing downwards into the floor pan and towards the occupants' foot area,



THIS IS A SAFETY ITEM! CHECK YOUR INSTALLATION CAREFULLY! IF IN DOUBT ASK!

Please Note: FEV Biofilm 3S Premium systems are tested and rated for a temperature operation range of -10 to +60 degrees C in accordance with FIA regulations and technical list 16. Users should ensure that where high temperatures are anticipated adequate provision is made to locate the system away from high temperature sources (exhaust, catalyst, etc) and if necessary fit reflective insulation around the cylinder.

BEFORE EVERY EVENT CHECK SYSTEM CONTENTS, NOZZLES ARE CLEAN AND ALL CONNECTIONS ARE SECURE

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F.E.V. CONTROL BOX

INSTRUCTIONS

The Control Box is supplied with 3 cables. One of these is terminated with a 2-pin plug for connection to the electrical firing head. The other 2 cables are not terminated and are for connection to the External and Internal firing Button Switches. Either cable can be connected to either type of switch.

Setting Up The System

On the control box a 3-position switch selects the function with centre being OFF. The up position is TEST and down position ARM.

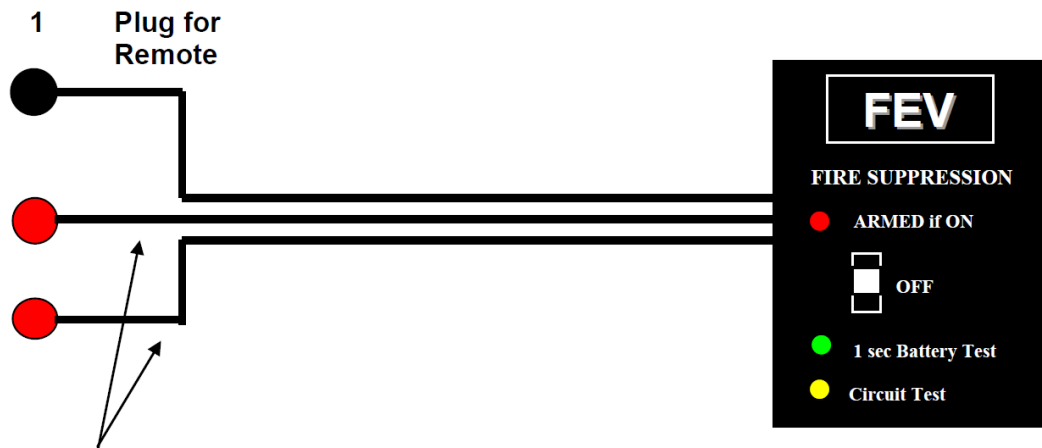
Switch to the test position.

Observe that the GREEN LED comes ON for about 1 second and then goes OFF. This signifies a good battery, if the GREEN LED fails to come ON then the PP3 battery must be exchanged for a new one.

At the same time the YELLOW LED should be ON. If the FIRE BUTTON is now pressed the yellow led will go OFF signifying a good circuit.

Switch to the Armed Position

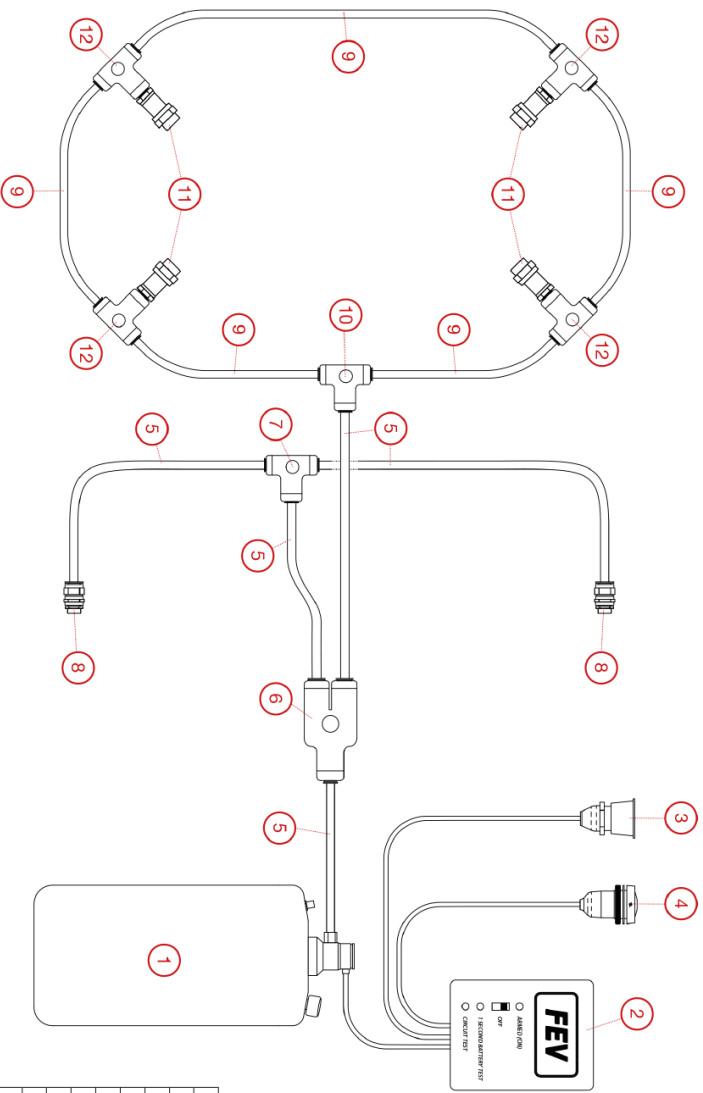
In the armed position and if the system is ready then the RED LED will be ON. If either the wiring or firing detonator is faulty or the detonator is either not there or has already fired, then the LED will not light. There are two 1.2 Metre wires coming from the unit, either or both should be connected to firing push button switches of the users choice. Making the circuit between the two wires, coloured red and blue WILL cause the extinguisher to FIRE.



Wires for Two Fire! Buttons

Fit a single pole push button on each wire, (Red and Blue conductors). If only one button is required then cut back and ensure red and blue conductors are isolated





Item	Part Number	Qty
1	EK CYLINDER	1
2	FE-OB-CE (carbon effect)	1
3	FE-INT-FB-MS	1
4	FE-EXT-FB	1
5	FE-ALL-10	
6	FE-Y-COON-10-M	1
7	FE-T-COON-10-M	1
8	FE-FOAM-C-PTT-NOZ-10	2
9	FE-ALL-8	
10	FE-T-COON-10-8-M	1
11	FE-FOAM-ENG-NOZ-8	4
12	FE-M-TEE-COON-8X-1/4	4

 FIRE SUPPRESSION	CYLINDER INSTALLED IN REAR	 A4 THIRD ANGLE PROJECTION	TITLE ASSEMBLY ELECTRICAL SYSTEM
Fire Extinguisher Valve Co Unit 10, Ford Lane Business Park Ford Lane, Arundel, West Sussex, BN18 0UZ Tel: 01243 555661 Fax: 01243 555660 WWW.FE-VALVE.CO.UK			DRAWING NO: F-TEC4000EK

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 Unit 10, Ford Lane Business Park, Ford Lane, Ford, Nr Arundel, West Sussex, BN18 0UZ,
 Tel + 44 (0) 1243 55 55 66 Fax + 44 (0) 1243 555 660
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