



FESG1800R

Remote Electronic Plumbed-In Fire Extinguisher System Installation Instructions

This is an FX G-TEC 1800R +ADS Advanced Discharge System - homologated gas 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. The control box does not contain a battery; you will need to supply a 9-volt PP3 battery.
2. Do not plug the loom into the remote charge until the firing button connections are made.
3. 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

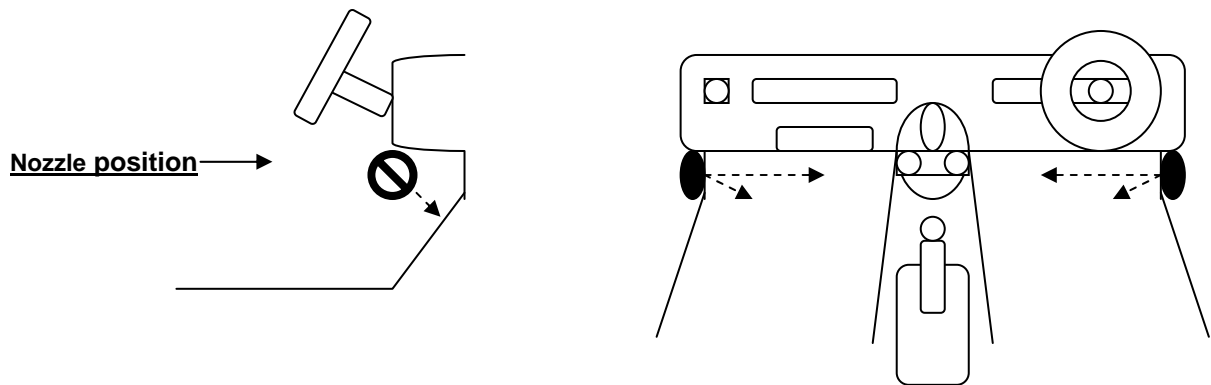
Qty	Description	Drawing Item No	Part No
1	Cylinder	1	CYL-IX00R
1	Braided Hose	4	FE-B-HOS
1	6mm Tubing 5mtr	9	FE-DECA-6
2	Cockpit Nozzle Colour Code (Silver)	10	FE-NOZ-TWIN
2	Engine Nozzle	11	FE-NOZ-X
1	External Firing Button	12	FES-EXT-FB
1	Control Box	13	FES-FC-BOX
1	Internal Firing Button	14	FES-INT-FB
1	12grm Remote Charge	16	FES-REM-12-CHAR
3	Tee Connector 6-6	17	FE-T-CON 6-6
1	Y Connector 6-6 Optional	18	FE-Y-CON-6-6

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 Decal label adjacent to the external firing switch.
4. **WIRING**. Wiring harness has 2-paired cables with bared ends. (A) Firing switches 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** - IMPORTANT Please note both extinguishant outlet and Pressure inlet connections are both 6mm as engraved on the top of the flange. The remote cartridge is connected to the pressure inlet using the braided hose supplied. The 6mm decabon tube from the extinguishant outlet to the nozzles is also marked on top of the flange. 6mm piping supplied fits into various fittings in accordance with assembly drawing no FX G-TEC IX00R ensure that all push in connections are secure. Note that the supply from the outlet of the flange should enter the centre branch of the T connector and exit the two outlets of the T connector into the two centre branches of the two T connectors the two outlets of each T connector then supply two engine nozzles and two cockpit nozzles.

Engine Nozzles should be positioned to enable the spray cone to cover areas at most risk, for example the engine fuel system and turbo. If in doubt ask your local MSA/FIA scrutineer to advise. Hole size for nozzle 12.5mm Diameter.

Cockpit Nozzles as Homologated Mount two cockpit nozzles on the front door pillars pointing horizontally towards the centre of the car, just below the bottom line of the dashboard. Each nozzle has two colour coded jets (silver), angle each nozzle at 45°, one jet pointing horizontally across the car towards the centre, the other jet point into the footwell at 45° to the horizontal. Hole size for nozzle 13.5mm Diameter.



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

Please Note: FEV FX G-TEC systems are tested and rated for a temperature operation range of -10 to +60 degrees C in accordance with FIA regulations. 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

F.E.V. CONTROL BOX

INSTRUCTIONS

The Control Box is supplied with 3 cables. One of these is terminated with a 3-pin plug for connection to the Remote Gas Charge Cartridge on remote systems or the Firing Head on pressurised systems. The other 2 cables are not terminated and are for connection to the External and Internal Control 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.

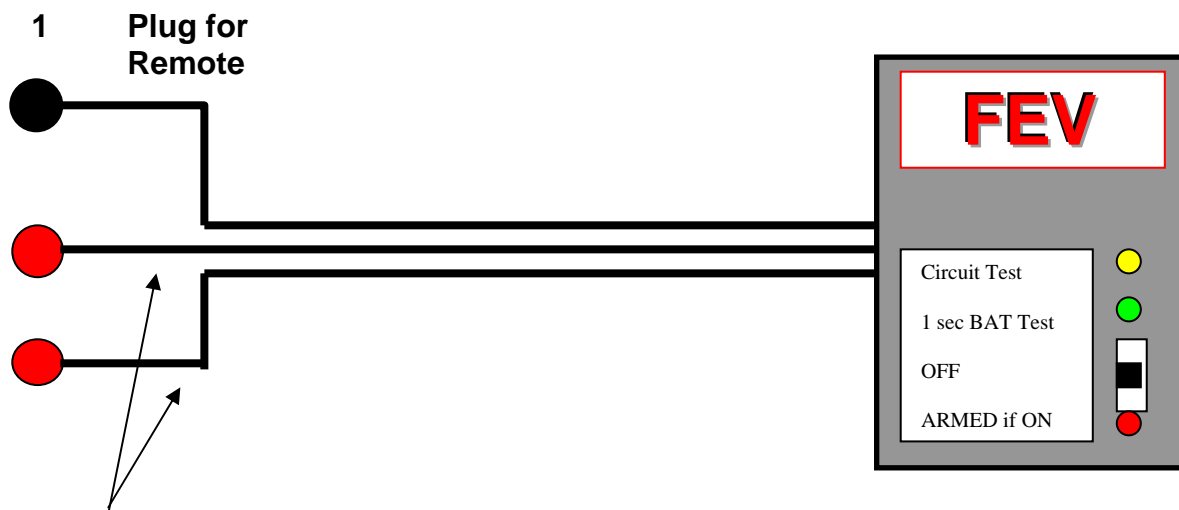
Switch to the test position.

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



