

# PowerLink-200

## Auxiliary Injection Controller

### Description

The PowerLink-200 precisely controls one to two low resistance injectors (< 6 ohms) or four high resistance injectors (6 ohms +) fitted to an engine supplementing fuel to the engine. The PowerLink-200 has two variable controls and a four way switch. The four way switch tells the PowerLink-200 how many cylinders the engine has. One of the variable trimmers controls the the MAP (Manifold Air Pressure) where the auxiliary fuel is first required and the other controls the amount of fuel delivered (slope).

### Installation

The PowerLink-200 will control either high or low impedance injectors. For low impedance injectors (<9 ohms) fit the ballast resistor supplied. There are two mounting screws provided.

### Wiring

The PowerLink-200 has four wires performing the following functions.

**Ground** BLACK Power ground point for the processor and output drive transistor. Terminate this wire to a clean earth point.

**Trigger Input** GREY

**High Level** Connect to the ignition coil negative terminal via the supplied 68K resistor. Locate the resistor at the coil end of the wiring rather than at the PowerLink-200 unit.

**Low Level** For multi-coil systems or if the coil negative terminal is unavailable. Connect to the factory ECU "Tacho" output signal. Do not fit the 68K resistor (direct connection to the grey wire).

**Output Drive** ORANGE High current (earth sourcing) output drive line for solenoid operated fuel injector. Use the ballast resistor supplied for low resistance injectors.

**+12 Volts** RED The PowerLink-200 power supply. Connect to the ignition switch. A fuse of rating 2 – 5 Amps may be used.

**Pressure Port** Connect to manifold vacuum and pressure via the 3 mm tube supplied.

### Set up

Set the toggle switches to the following:

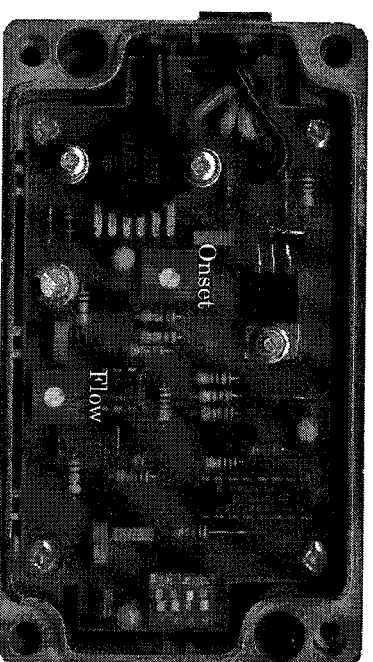
	Switch			
	1	2	3	4
One Cylinder	OFF	On	OFF	OFF
Two Cylinder	OFF	On	OFF	OFF
Three Cylinder	On	On	OFF	OFF
Four Cylinder	OFF	OFF	On	OFF
Five Cylinder	On	OFF	On	OFF
Six Cylinder	OFF	On	On	OFF
Eight Cylinder	OFF	OFF	OFF	On
Twelve Cylinder	OFF	OFF	On	On

The PowerLink-200 has two trimmers located under the front cover, accessed by removing the four screws.

The Onset Trimmer turned fully anti-clockwise will activate the PowerLink-100 from full vacuum. The Onset Trimmer turned 40% through its travel represents atmosphere (One Bar) and fully clockwise is high boost, approximately 1.5 bar (23 psi). Set as required.

There is a Light Emitting Diode (L.E.D.) next to the pressure transducer. When the PowerLink-100 comes into operation (as set by the Activate Trimmer) it will glow, and get brighter as the duty cycle (Flow) increases. This is so that the operator can detect operation.

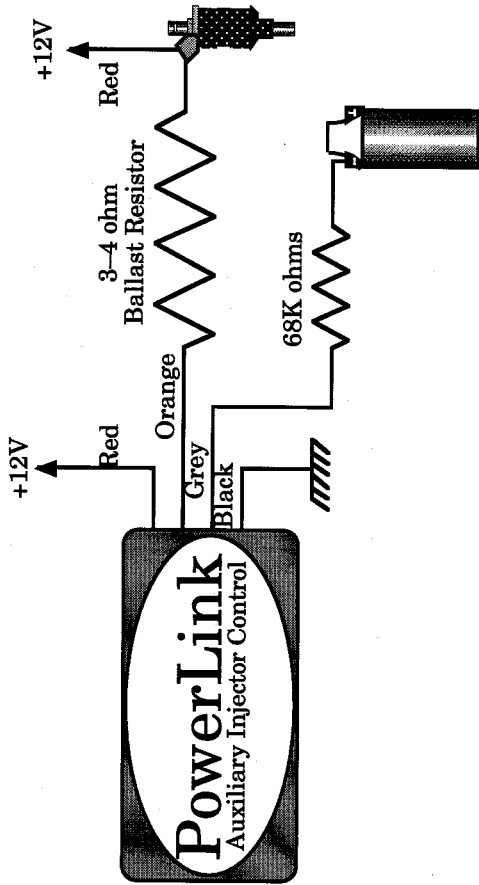
Adjust the Flow trimmer to eliminate detonation or lean-out. For optimum performance and security use a gas analyser (CO) for the best Flow setting.



# Link ElectroSystems Ltd.

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### Link ElectroSystems Ltd. Limited Warranties Statement

Effective April 5, 1992 5 p.m.

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