

## Injector loom plug details and how they work.

- There are EIGHT wires on the injector loom plug, matching the eight on the car loom plug it connects to.
- FOUR of these wires are **Pink/brown** and these ALWAYS carry 12 volts whenever the ignition is on.
- The other FOUR of these wires carry two types of current: FIRST the opening pulse of the full 12 volts (e.g. A bank ON in the table above) and SECOND the ECU switches the current to go via the resistor pack thus providing a reduced current to the injector to keep it open for the required duration (e.g. A bank HOLD in the above table). NOTE the same injector loom wire carries the opening pulse and the subsequently reduced pulse, the ECU managing this switch.
- Thus for injector activation purposes **there are really four PAIRS of wires in the injector loom**, each pair having one wire with a constant 12 volts and a second wire that manages the current load as organised by the ECU.
- The ECU activates the injectors by earthing them, that is the loom wire that controls the opening and the holding pulse is earthed by the ECU for the required duration to open and hold open the injector.
- **Within the injector loom itself**, it starts off at the plug with eight wires, being, as noted above, FOUR groups of TWO wires. Left alone this would only be sufficient to activate four injectors. Therefore, within the injector loom, downstream from the plug, **each pair of two wires split three ways**.
- Each split pair thus is able to activate THREE injectors. And four x three = 12 injectors activated.

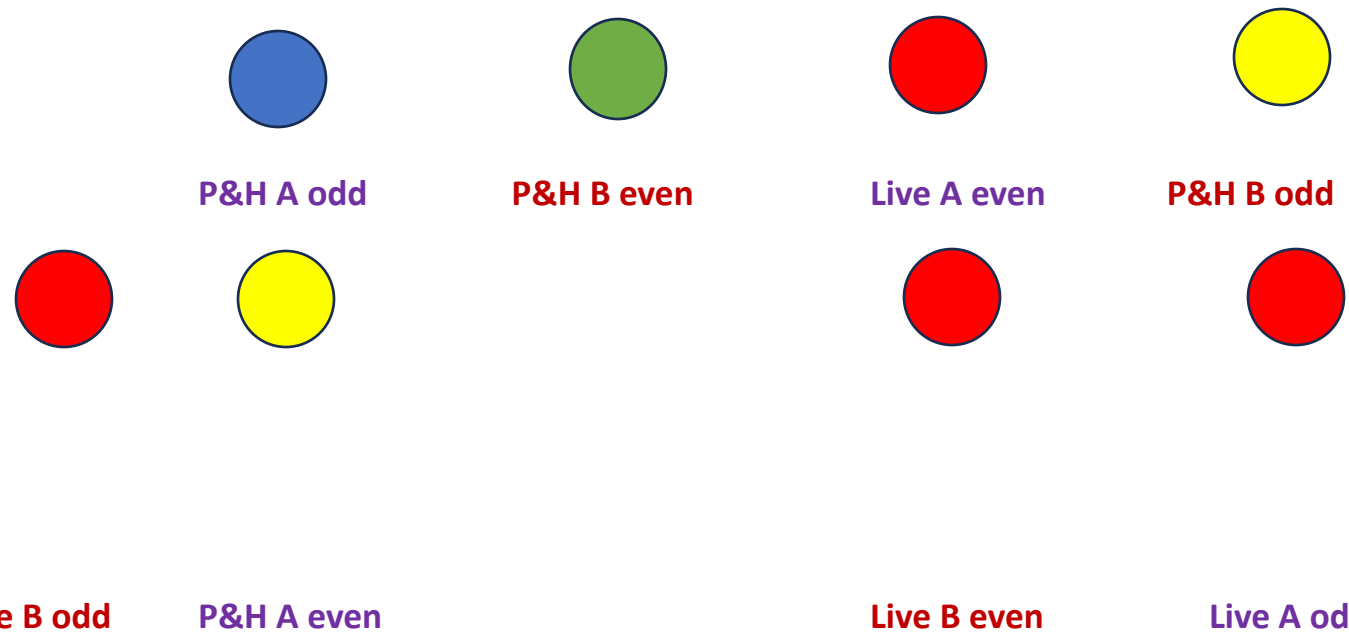
## Car loom to Injector loom plug colour scheme:

### A bank colours

			New loom colour	
A bank ODD numbers	LIVE feed	PINK/brown	RED	
	Peak and hold	ORANGE/blue	BLUE	
A bank EVEN numbers	LIVE feed	PINK/brown	RED	
	Peak and hold	ORANGE/white	WHITE	

### B bank colours

			New loom colour	
B bank ODD numbers	LIVE feed	PINK/brown	RED	
	Peak and hold	ORANGE/slate	YELLOW	
B bank EVEN numbers	LIVE feed	PINK/brown	RED	
	Peak and hold	ORANGE/Green	GREEN	



Using four pin plugs this colour = the A bank plug wires needed

Using 4 pins plugs this colour = the B bank plugs needed

This schema of the OEM plug is looking at the BACK of the injector loom plug where the injector loom wires go into it. It is therefore ALSO looking at the FRONT of the car loom plug where the injector loom plugs into it.