ECM

The ECM is located behind the Centre Consol on the Applause.

On the Feroza it is located behind the Right hand Kick Panel .

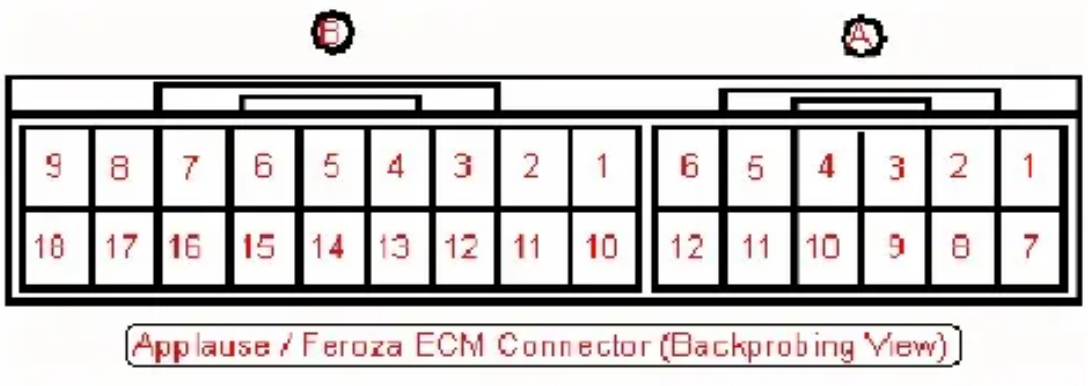
The ECM incorporates a self diagnosis facility.

When an out of range signal occurs,

A fault code is logged and recorded in the ECM and the Check Engine Light is illuminated.

With intermittent faults, the Check Engine Light may extinguish,

However, the fault code will remain stored in the ECM unless it is erased.



Applause / Feroza ECM Connector (Backprobing View)

ECM Voltage table

Pin#	Circuit	Condition	Status	Voltage
Connector "A"				
A1	Earth		All Times	0 Volts
A2	Injectors		Ignition ON	Battery Volts
			Engine cranking or running	Voltage Pulses
A3	ECM Power Supply		Ignition ON	Battery Volts
A4	Backup Power Supply		All Times	Battery Volts

A5	Idle Up VSV	Ignition ON	Engine @ operating Temperature	Battery Volts	
			Idle Up VSV ON	< 3 Volts	
A6	Oxygen Sensor Test Connector	Engine @ operating temperature	Engine speed held steady @ 3000 RPM approx		
			Switching > 8 times in 10 seconds	0.5 Volts approx.	
A7	Earth		All Times	0 Volts	
A8	Injectors		Ignition ON	Battery Volts	
			Engine cranking or running	Voltage Pulses	
A9	ECM Power Supply		Ignition ON	Battery Volts	
A10	Check Engine Light (CEL)		Ignition ON + CEL pin shortcut	< 3 Volts	
			Engine running CEL OFF	Battery Volts	
A11	Fuel Pump Relay	Ignition ON	Fuel Pump operating	< 1 Volts	
			Fuel Pump NOT operating	Battery Volts	
A12	Earth		All Times	0 Volts	
Connector "B"					
B1	Ignition Signal		Ignition ON	Battery Volts	
			Engine cranking or running	Voltage Pulses	
B2	Starter Motor Signal		Engine cranking	6.0 to 15.5 Volts	
B3	Diagnostic Connector Test Terminal		Ingnition ON	Battery Volts	
B4	Idle Switch	Ignition ON	Throttle closed	1.0 Volts or less	
			Throttle open	Battery Volts	
B5	Electrical Load Signal		Headlaps ON	Battery Volts	
			Demister ON	Battery Volts	
			All Other Times	0 Volts	

B6	MAP sensor Power Supply		Ignition ON	4.5 to 5.5 Volts	
B7	MAP Sensor		Ignition ON, Engine OFF	3.2 to 3.8 Volts	
B8	Intake Air Sensor	Surge Tank Air Temp. @ 20°C	Ignition ON	0.9 to 3.0 Volts	
B9	Engine Coolant Temp. Sensor	Engine Coolant Temp. @ 80-90°C	Ignition ON	0.4 to 0.5 Volts	
B10	MAP Sensor Earth		All Times	0 Volts	
B11	Air Conditioner Clutch		Ignition ON	0 Volts	
			Air Conditioner ON	Battery Volts	
B13	Transmission Detection	Ignition ON	Manual Vehicles.	Battery Volts	
	(Applause Only)		Automatic Vehicles	0 Volts	
B14	Vehicle Speed Sensor	Ignition ON	Vehicle stationary	0 or Battery Volts	
			Front wheels rotating	0 to Battery Volts fluctuations	
B15	Transmission Shift Position Switch	Ignition ON	D, 2,L or R selected	1.0 Volts or less	
	(Applause Automatic Only)		P or N selected	Battery Volts	
B16	Throttle Position Sensor Power Switch	Ignition ON	Throttle Closad	4.5 to 5.5 Volts	
			Trhottle Open	1.0 Volts or less	
B17	Oxygen Sensor		Engine @ operating temperature	Switching > 8 times in 10 seconds	
			Engine speed held steady @ 2000 RPM approx.	0 and 1 Volts	
B18	Sensor Ground		Ignition ON	0 Volts	