

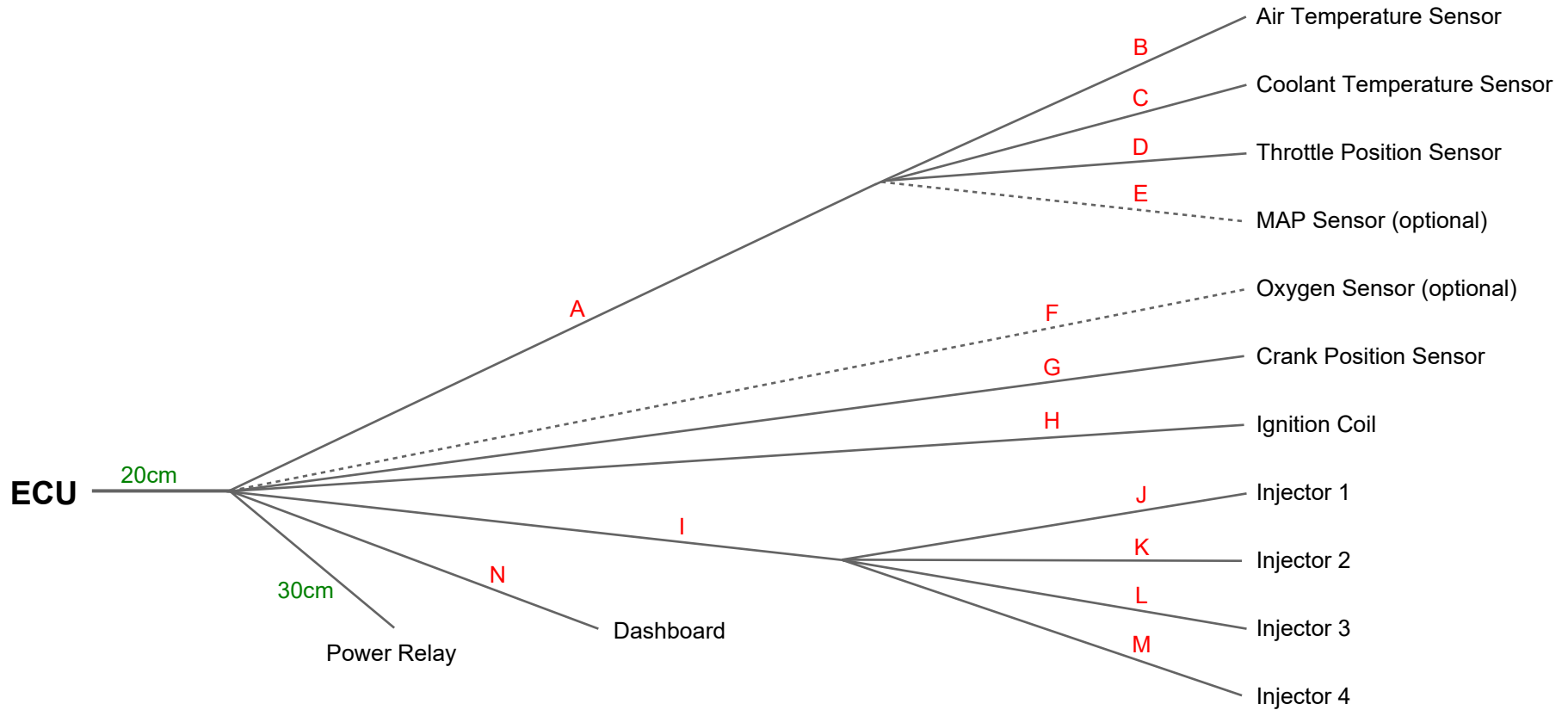
# 600 ECU Race Specification Bespoke Harness Design Form

## Design Considerations

- Although the wiring harness materials and manufacture methods are selected to give as much mechanical and electrical resilience as possible, design and routing to minimise what the harness needs to endure is best.
- Keep the ECU away from direct water spray and away from hot components such as exhaust, water pipes etc.
- Make the harness as short as possible. A long harness is an aerial for electrical interference so shorter is better. Advertised pricing assumes that the longest part of the harness is no more than 2metres; longer harnesses may have additional charges.
- Route the harness away from the exhaust side of the engine to minimise heat stress.
- Route the harness (particularly the 'sensors' section of the harness) away from the alternator, starter motor and HT leads to reduce electrical interference.
- Remember that the engine will move slightly on the engine mounts and leave enough 'slack' cable to allow for this.
- Mounting the harness to the chassis and engine regularly stops the harness moving and so reduces stresses on and fatigue of the cable and joints. Design the routing so that there are plenty of mounting opportunities. Rubber lined 'P' clips are better mounts than cable ties as cable ties compress the cables and can cause vibration wear.

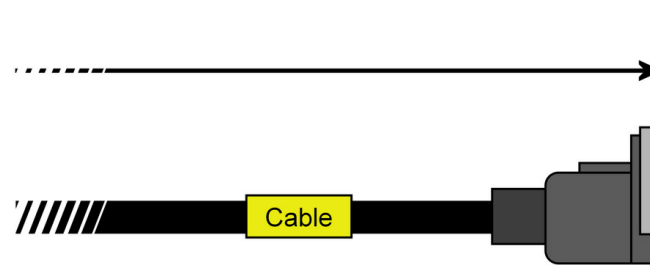
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## Dimensions



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All dimensions should be recorded in cm. Measurements are to the face of the connector as shown in the diagram below. The wiring harness will be built to an accuracy of -0cm+5cm.



A _____	B _____	C _____	D _____	E _____
F _____	G _____	H _____	I _____	J _____
K _____	L _____	M _____	N _____	

Air temperature sensor	Type	_____
Coolant temperature tensor	Type	_____
Throttle position sensor	Type	_____
Crank position sensor	Type	_____
Ignition coil	Type	_____
Fuel Injector	Type	_____

**MAP Sensor**

Fitted? Yes  No

Type \_\_\_\_\_

**Oxygen Sensor**

Fitted? Yes  No

Type \_\_\_\_\_

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## Extra Relays (optional)

### Fuel Pump Relay

Option 1  None

Option 2  Relay fitted next to the power relay

Option 3  Cable fitted to control a relay on the chassis harness Length \_\_\_\_\_ cm

### Radiator Fan Relay

Option 1  None

Option 2  Relay fitted next to the power relay

Option 3  Cable fitted to control a relay on the chassis harness Length \_\_\_\_\_ cm

### Radiator Fan 2 / Second Speed Relay

Option 1  None

Option 2  Relay fitted next to the power relay

Option 3  Cable fitted to control a relay on the chassis harness Length \_\_\_\_\_ cm

## Extra connections (optional)

Do you have extra requirements such as VTEC controls, idle control valve etc? If so, please explain them here

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