

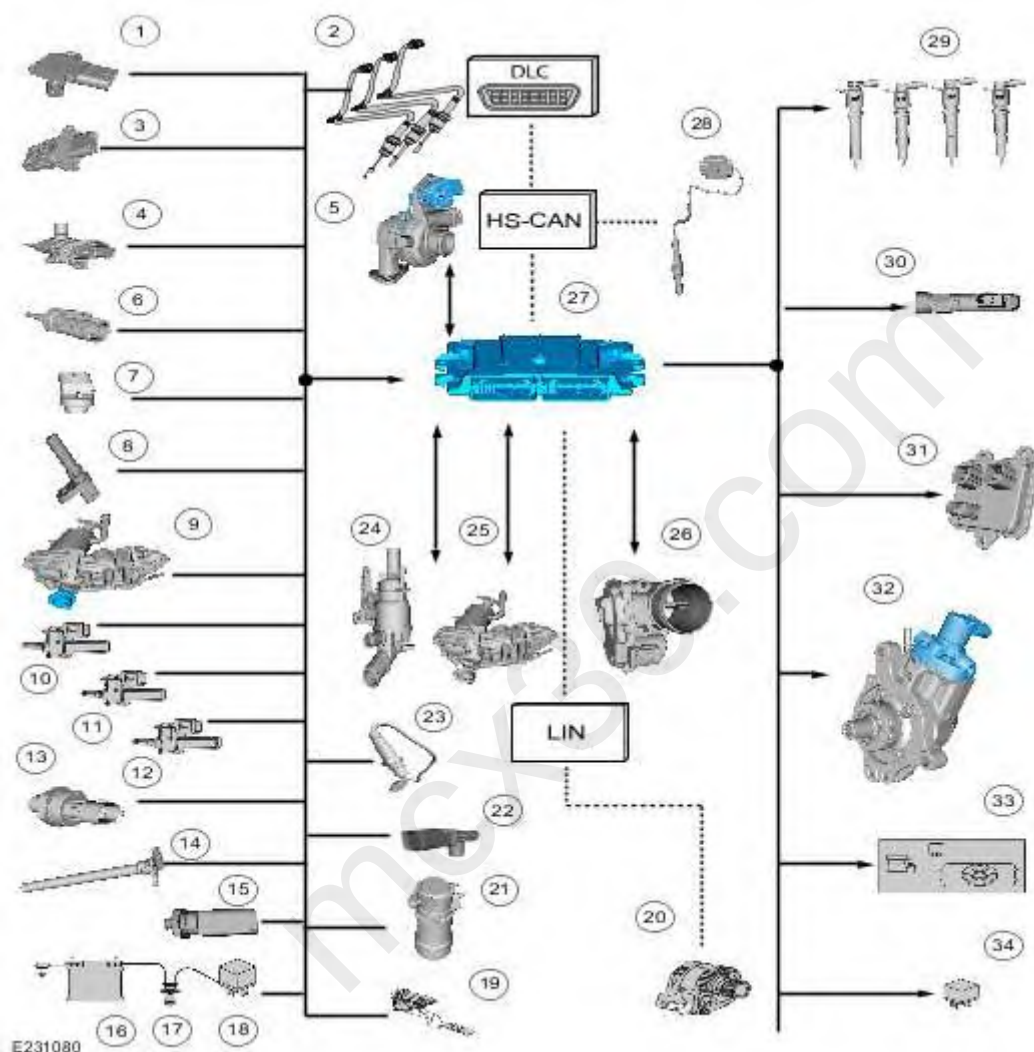
# Electronic Engine Controls - 2.0L EcoBlue (77kW/105PS) (YL)/2.0L EcoBlue (96kW/130PS) (YM)/2.0L EcoBlue (125kW/170PS) (YN) - Electronic Engine Controls - System Operation and Component Description

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## Description and Operation

### System Operation

#### Electronic Engine Controls



| Item | Description                                                       |
|------|-------------------------------------------------------------------|
| 1    | MAPT (manifold absolute pressure and temperature) sensor          |
| 2    | Exhaust Gas Temperature (EGT) sensors x3                          |
| 3    | MAF (mass air flow) sensor                                        |
| 4    | Low-pressure and fuel temperature sensor                          |
| 5    | Position sensor, turbocharger guide vanes (variable turbocharger) |
| 6    | CHT (cylinder head temperature) sensor                            |
| 7    | CMP (camshaft position) sensor                                    |
| 8    | CKP (crankshaft position) sensor                                  |
| 9    | EGR cooler bypass valve                                           |
| 10   | CPP (clutch pedal position) sensor                                |
| 11   | BPP (brake pedal position) sensor                                 |

|    |                                                                                |
|----|--------------------------------------------------------------------------------|
| 12 | Stoplamp switch                                                                |
| 13 | EOP (engine oil pressure) sensor                                               |
| 14 | Oil level sensor                                                               |
| 15 | FRP (fuel rail pressure) sensor                                                |
| 16 | Battery                                                                        |
| 17 | Ignition lock                                                                  |
| 18 | Start inhibit relay                                                            |
| 19 | APP (accelerator pedal position) sensor                                        |
| 20 | Generator                                                                      |
| 21 | Water-in-fuel sensor/fuel filter pressure switch                               |
| 22 | Relative pressure sensor                                                       |
| 23 | Oxygen sensor (for passenger cars only)                                        |
| 24 | Thermostat heating element                                                     |
| 25 | Electric EGR (exhaust gas recirculation) valve with integrated position sensor |
| 26 | Electric intake manifold valve                                                 |
| 27 | PCM                                                                            |
| 28 | NOx sensor                                                                     |
| 29 | Fuel injectors                                                                 |
| 30 | Pressure control valve (fuel rail)                                             |
| 31 | Glow plug control module                                                       |
| 32 | Digital Inlet Valve (DIV)                                                      |
| 33 | Cooling fan control and A/C compressor                                         |
| 34 | PCM relay                                                                      |