Electronic Control System Description

The electronic control system consists of 1) various sensors which detect the state of engine and driving conditions, 2) ECM (PCM) which controls various devices according to the signals from the sensors and 3) various controlled devices. Functionally, it is divided into the following sub systems:

- Fuel injection control system
- Heated oxygen sensor heater control system (if equipped)
- Idle air control system
- Fuel pump control system
- Evaporative emission control system
- Ignition control system
- EGR system

Also, with A/T model, PCM controls A/T.

Electronic Control System Location

Sensor Finder!

<table>
<thead>
<tr>
<th>Information Sensors</th>
<th>Controlled Devices</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. IAT sensor</td>
<td>a: A/C condenser fan motor relay (if equipped)</td>
<td>A: Main fuse box</td>
</tr>
<tr>
<td>2. MAP sensor</td>
<td>b: Ignition coil assemblies</td>
<td>B: ECM (PCM)</td>
</tr>
<tr>
<td>3. Heated oxygen sensor (sensor 1)</td>
<td>c: EVAP canister purge valve</td>
<td>C: DLC</td>
</tr>
<tr>
<td>4. ECT sensor</td>
<td>d: EGR valve</td>
<td>D: Combination meter</td>
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<tr>
<td>5. TP sensor</td>
<td>e: IAC valve</td>
<td>E: Fuse box</td>
</tr>
<tr>
<td>6. MAF sensor</td>
<td>f: Injectors</td>
<td>F: EVAP canister</td>
</tr>
<tr>
<td>7. CMP sensor</td>
<td>g: Malfunction indicator lamp (&quot;SERVICE ENGINE SOON&quot; light)</td>
<td></td>
</tr>
<tr>
<td>8. ABS control module (if equipped)</td>
<td>h: Fuel pump relay</td>
<td></td>
</tr>
<tr>
<td>9. CKP sensor</td>
<td>i: Main relay</td>
<td></td>
</tr>
<tr>
<td>10. PSP switch</td>
<td>j: Oxygen sensor heater relay</td>
<td></td>
</tr>
<tr>
<td>11. Fuel tank pressure and temp. sensor</td>
<td>k: EVAP canister air valve</td>
<td></td>
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<tr>
<td>12. Fuel level sensor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. Transmission range switch (A/T)</td>
<td>16pin OBD2 DLC is at right knee cap</td>
<td></td>
</tr>
</tbody>
</table>
The EGR and 02s are had to remove. The 02s are clamped down and locked. The 02 locks are backwards from all others.
Fuel pump reg.
aka: CMP 1.8L
this one is 2.5L both are rear of CAM
HEATER HOSES
Yes, all this removed, just to get the water pump off.

There are about 30 bolts holding timing chain on.

4 bolts come up from oil pan.

Oil drained first, keep drain plug removed, so coolant that leaks to pan can exit easy.
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Fig. 18: Lower Left Side Of Dash

(1) Daytime Running Lamps (DRL) Control Module
(2) Stoplamp Switch
(3) Clutch Pedal Position (CPP) Switch
(4) C204
(5) C205
(6) C213
(7) Fuel Pump Relay
(8) Main Relay
(9) Tail Relay
(1) Heater Control Illumination Lamp
(2) A/C Switch
(3) Radio
(4) A/C Compressor Control Module
(5) Inflatable Restraint IP Module
(6) Ambient Light Sensor
(7) Blower Motor Relay
(8) Blower Motor Resistor
(9) Powertrain Control Module (PCM)
(10) Blower Motor
(11) Inflatable Restraint Sensing and Diagnostic Module (SDM)
(12) Cigar Lighter
(13) Data Link Connector(DLC) OBD2
(14) SIR Data Link Connector
(15) Fuel Pump Relay
(16) Main Relay

(17) Junction Block
(18) Headlamp Relay
(19) Rear Defogger Relay
(20) IP Lamp Dimmer Control
(21) Remote Control Mirror Switch
(22) Cruise Control Main Switch
(23) Rear Wiper/Washer Switch
(24) Steering Wheel Module Coil
(25) Hazard Switch
(26) Rear Defogger Switch
(27) Blower Switch
Right Side Of Engine Compartment

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(1) Fuse Block
(2) Shift Lock Control Relay
(3) A/C Condenser Fan Relay
(4) A/C Compressor Relay
(5) Horn Relay
(6) A/C Fuse, Blower Fuse
Oil pump
(1) Main Relay

(2) Fuel Pump Relay

(3) Junction Box (located above left side hinge pillar trim panel)
A = MAIN
B = Fuel Pump

Relay's
DOOR
STP
spare Tail fog
tail relay
dome
spare haz def
spare IG Turn
Cig (front) radio
Wiper
spare
WINDOWS

Pink is pump swappable

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