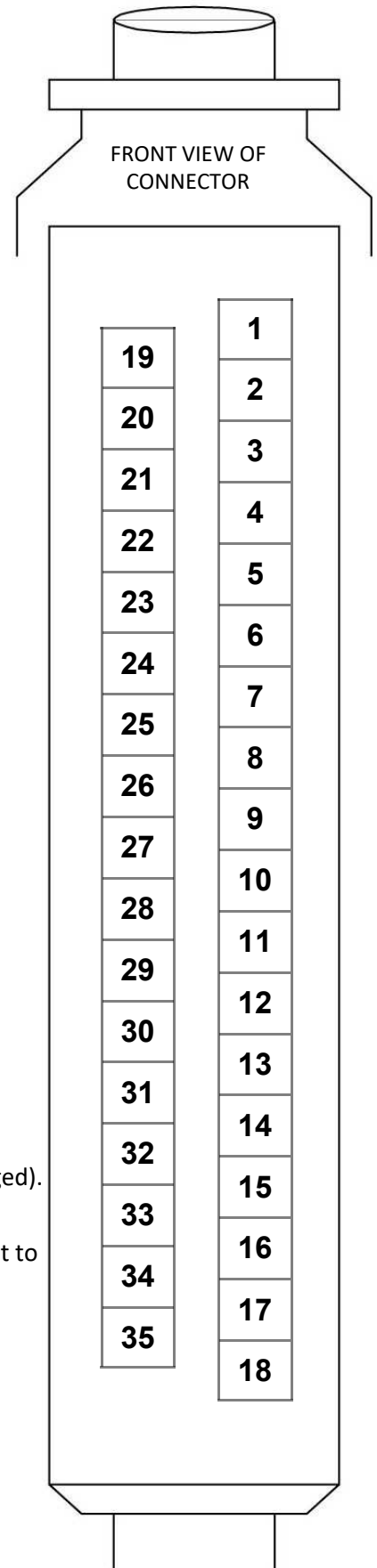


# LH 2.4 ECU PIN FUNCTIONS 740/940 16V B234F/G, B204E

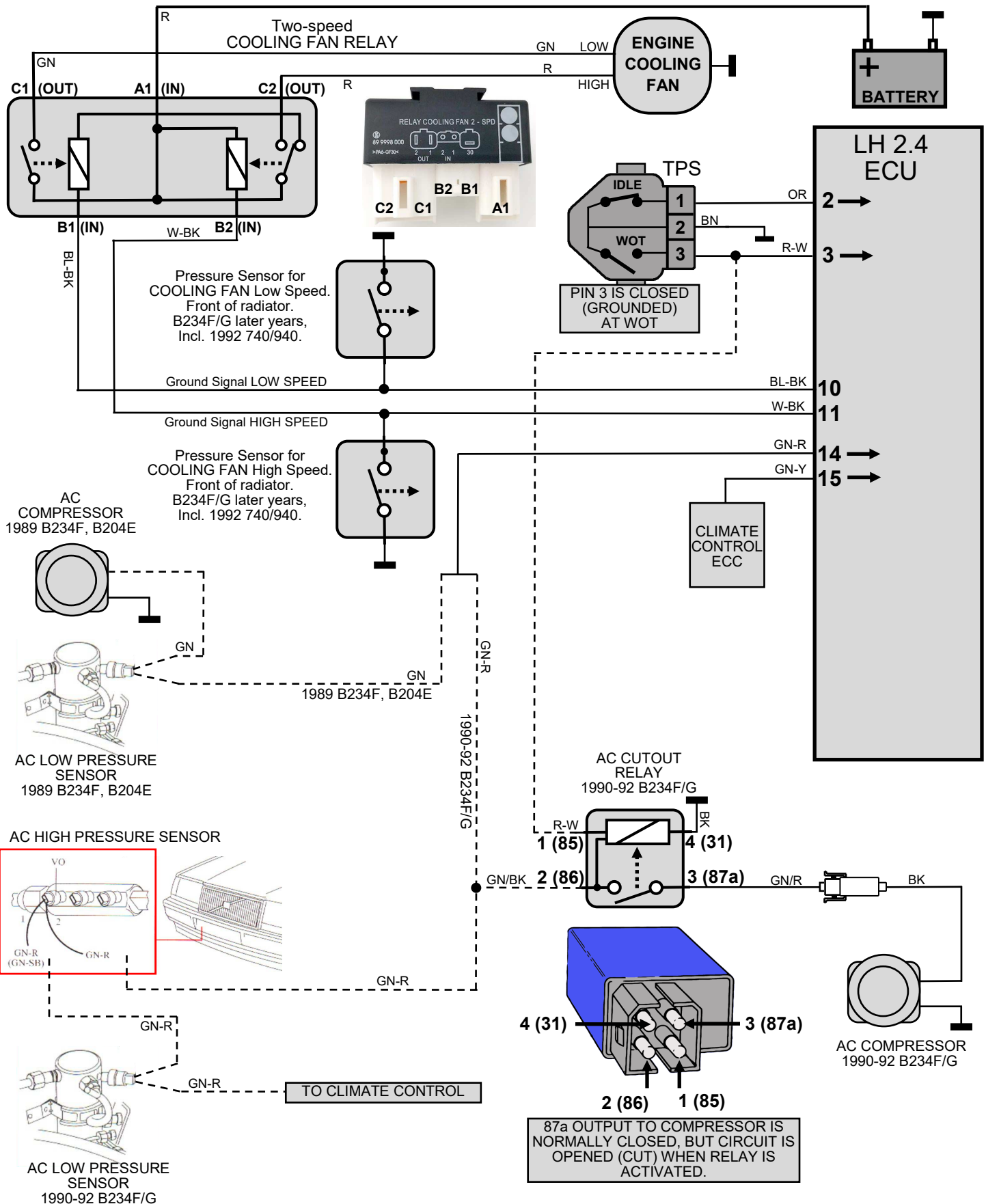
1. (Y-GR) Engine speed signal from EZK. Notifies ECU that engine is turning.
2. (OR) Input signal from TPS. Switch closes when throttle closes (IDLE).
3. (R-W) Input signal from TPS. Switch closes at full throttle (WOT).
4. (W) 12v input constant (terminal 30).
5. (BN) Ground (signal ground shield for oxygen sensor).
6. (BL-GN) Ground for MAF sensor.
7. (BL-R) Input signal from MAF sensor.
8. (BL-W) Control signal output for MAF sensor burn off.
9. (BL-Y) 12v switched power from main fuel system relay.
10. (BL-BK) Exc. 1989: Ground signal output to engine cooling fan relay, low speed.
11. (W-BK) Exc. 1989: Ground signal output to engine cooling fan relay, high speed.  
Pins 10 and 11 features may only be available for late 740 and 940 ECU.
12. (GN-W) Diagnostic signal lead (OBD).
13. (GR-W) Input signal from coolant temp sensor (ECT).
14. (GN-R) Input signal from AC (compressor on).
15. (GN-Y) Input signal from AC (AC starting).
16. — (Some models: Diagnostic signal lead, pin 2).
17. (BK) Ground (to engine). Used for injector and idle valve control signal.
18. (GR) Control signal output (ground) for fuel injectors.
19. (BK) Ground. (Chassis ground. Separate from control signal ground).
20. (Y-BK) Control signal output (ground) to fuel pump relay.
21. (R) Control signal output (ground) to main fuel system relay.
22. (BN-W or BL-P) Output signal to check engine light (CEL).
23. — (Some B230 models: input signal, EGR temp sensor).  
(B204E (W), B234G (Y-W): to MAF pin 6).
24. (GN) Input signal from oxygen sensor (shielded).
25. (Y) MAF load signal output to EZK.
26. (W-BK) Shift up indicator output signal (manual trans).
27. (Y-BN) Charcoal canister purge valve control signal. B234F only.
28. (GR-R) Input signal from EZK (knock sensor).
29. (BN-BK) Ground. (Some models: Code input).
30. (P-W or P) Input signal from starter terminal 50 (12v signal when starter is engaged).  
ECU provides additional fuel when starting. Circuit also to Park-Neutral Position (PNP) switch for auto trans. When PNP is placed in D, 1, 2, 3 or R, breaking circuit to terminal 50, idle is elevated.
31. — Control signal output, Pulse Air Injection Solenoid (B230FD only).
32. — (B230F, FT only)(GR-BK) Control signal output to cold start injector.
33. (R-BK) Control signal output to idle valve.
34. (V-W) Input VSS signal from speedometer.
35. (BL) 12v input switched (terminal 15).

## Wiring harness





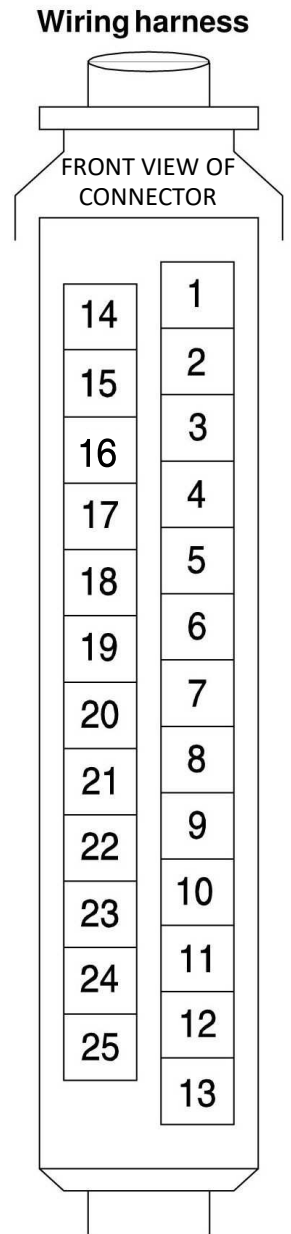
# LH 2.4 ECU PIN FUNCTIONS 740/940 16V B234F/G, B204E COOLING FAN AND CLIMATE CONTROL CIRCUITS



# EZ 116K IGNITION CONTROL UNIT PIN FUNCTIONS

1989-93 740/940 16V B234F/G, B204E

1. (Y-R) Output signal to OBD diagnostic socket.
2. (R-BK) Input signal from coolant temp sensor (ECT).
3. (BN-W) (B234F not all years) Output signal to check engine light (CEL).
4. (GR-R) Output signal to ECU pin 28 (knock sensor).
5. (BN) 12v input constant (terminal 30).
6. (BL) 12v input switched (terminal 15).
7. (OR) Input signal from TPS, throttle closed (IDLE).
8. (Y) MAF sensor load input signal from ECU.
9. —
10. (R) Input signal from crank position sensor (CPS).
11. (BK) Ground (signal ground SHIELD for CPS).
12. (BK) Ground (signal ground SHIELD for knock sensor).
13. (GN) Input signal from knock sensor (shielded).
14. — EGR model only. Ground to engine.
15. — EGR model only. Control signal output to EGR vacuum solenoid.
16. (GR) Ignition pulse output signal to ignition amplifier (power stage).
17. (Y-GR) Engine speed signal output to ECU. 6.5=cranking, >8=idle.
18. — Selector wire. Signals: 5v=disabled, grounded=enabled
19. — Selector wire. Signals: 5v=disabled, grounded=enabled
20. (BN) Ground to engine (signal ground).
21. —
22. — (Y-BK) EGR model only. Input signal from EGR temp sensor.
23. (BL) Input signal from crank position sensor (CPS).
24. —
25. —



# EZ 116K IGNITION CONTROL UNIT PIN FUNCTIONS

1989-93 740/940 16V B234F/G, B204E

