

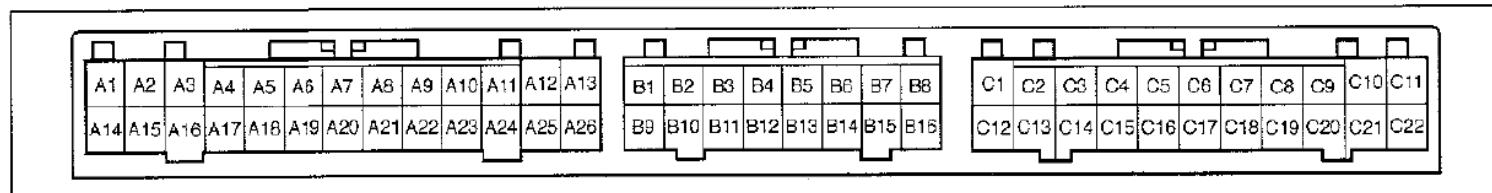
G16B Baleno into 1.3 Sierra ECU wiring

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Version 1.0

1. Connect to positive on battery
2. High amp fuse box (is part of Baleno relay/fuse box)
3. Relay/fuse box (graft into sierra under the bonnet. Has added benefit of many spare fuse and relay sockets for spotlights, etc...)
4. "FI" fuse
5. "DOME" fuse
6. Main relay
7. Fuel pump relay
8. Fuel pump (connect to whatever fuel pump you are using, ie Vitara swimmer pump, Bosch 044 external pump, etc...)
9. Thermo fan control relay (don't need if you are using mechanical fan bolted to water pump)
10. Thermo fan motor (can use any thermo fan that fits)
11. Splice into Sierra's ignition switch 'IG' wire (on 1.3's the wire should be B/Bl)
12. Splice into Sierra's ignition switch 'ST' wire (on 1.3's the wire should be B/Y)
13. Tachometer output (you can graft Baleno tacho into Sierra cluster, note this output will NOT work with standard Sierra tacho)
14. Check Engine light (I found there are a few spare globe holders in Sierra dash you could use)
15. VSS signal (ECU will still run engine without signal, but engine light will come on without it)
16. DLC (don't really need this plug, but its very easy to fit and good to have sitting there in case its needed)
17. Diagnosis connector (this is built into Baleno relay/fuse box, another good reason to graft box into Sierra)
18. Diodes for electric loads (not necessary, but idles up engine slightly for large electrical loads)
19. Headlight idle up (Connect positive wire from park light switch here)
20. Demister idle up (Connect positive wire from demister switch here)
21. ECU
22. No.1 injector
23. No.2 injector
24. No.3 injector
25. No.4 injector
26. Idle Air Control valve
27. EVAP canister purge valve
28. Ignition coil assemblies
29. Cyl.1 spark plug
30. Cyl.4 spark plug
31. Cyl.2 spark plug
32. Cyl.3 spark plug
33. Crankshaft Position Sensor
34. Camshaft position sensor
35. Oxygen sensor (make sure you have the single wire sensor, if not you need an addition to this diagram)
36. Manifold Air Pressure sensor
37. Throttle Position sensor
38. Engine Coolant Temperature sensor
39. Temperature output to instrument cluster (can connect to Sierra's gauge, but is very inaccurate)
40. Inlet Air Temperature sensor

TERMINAL ARRANGEMENT OF ECM (PCM) COUPLER (VIEWED FROM HARNESS SIDE)



| TERMINAL | CIRCUIT |
|----------|--|
| A1 | DN Diagnosis switch terminal |
| A2 | TS Test switch terminal |
| A3 | SPL DLC |
| A4 | MON Duty output terminal |
| A5 | TM Tachometer |
| A6 | MR Main relay |
| A7 | DNL Malfunction indicator lamp ("CHECK ENGINE" light) |
| A11 | VCC Power source (for sensors) |
| A12 | E1 ECM(PCM) ground |
| A13 | B1 Power source |
| A18 | EL+ Electric load signal for position lamp and rear window defogger switch |
| A20 | IGS Ignition switch |
| A21 | RFC Radiator fan control relay |
| A22 | ISC IAC valve |
| A25 | BB Power source for back-up |
| A26 | B2 Power source |

| TERMINAL | CIRCUIT |
|----------|--|
| B1 | IGT1 Ignition coil assembly for No.1 and No.4 cylinder |
| B2 | FP Fuel pump relay |
| B7 | INJ1 No.1 injector |
| B8 | INJ3 No.3 injector |
| B9 | IGT2 Ignition coil assembly for No.2 and No.3 cylinder |
| B12 | PRG EVAP canister purge valve (if equipped) |
| B15 | INJ2 No.2 injector |
| B16 | INJ4 No.4 injector |

| TERMINAL | CIRCUIT |
|----------|--|
| C1 | E01 Ground |
| C5 | STA Engine start switch |
| C6 | THW ECT sensor |
| C7 | VTA TP sensor |
| C8 | PM MAP sensor |
| C9 | SPD VSS (M/T and 4AT only) |
| C10 | CR+ CKP sensor (+) (without immobilizer) |
| C11 | CAS CMP sensor (without immobilizer) |
| C12 | E02 Ground |
| C17 | E2 Sensor ground |
| C18 | THA IAT sensor |
| C19 | OX Heated oxygen sensor (HO2S) (if equipped) |
| C21 | CR- CKP sensor (-) (without immobilizer) |

NOTE: This wiring diagram assumes you have a G16B from a Suzuki Baleno with manual transmission, has no immobiliser, has no EGR, has a single wire oxygen sensor and has a carbon canister with purge valve.

DISCLAIMER: While I have done my best to provide you with correct information, I am in no way responsible if anything happens if you choose to use the information.