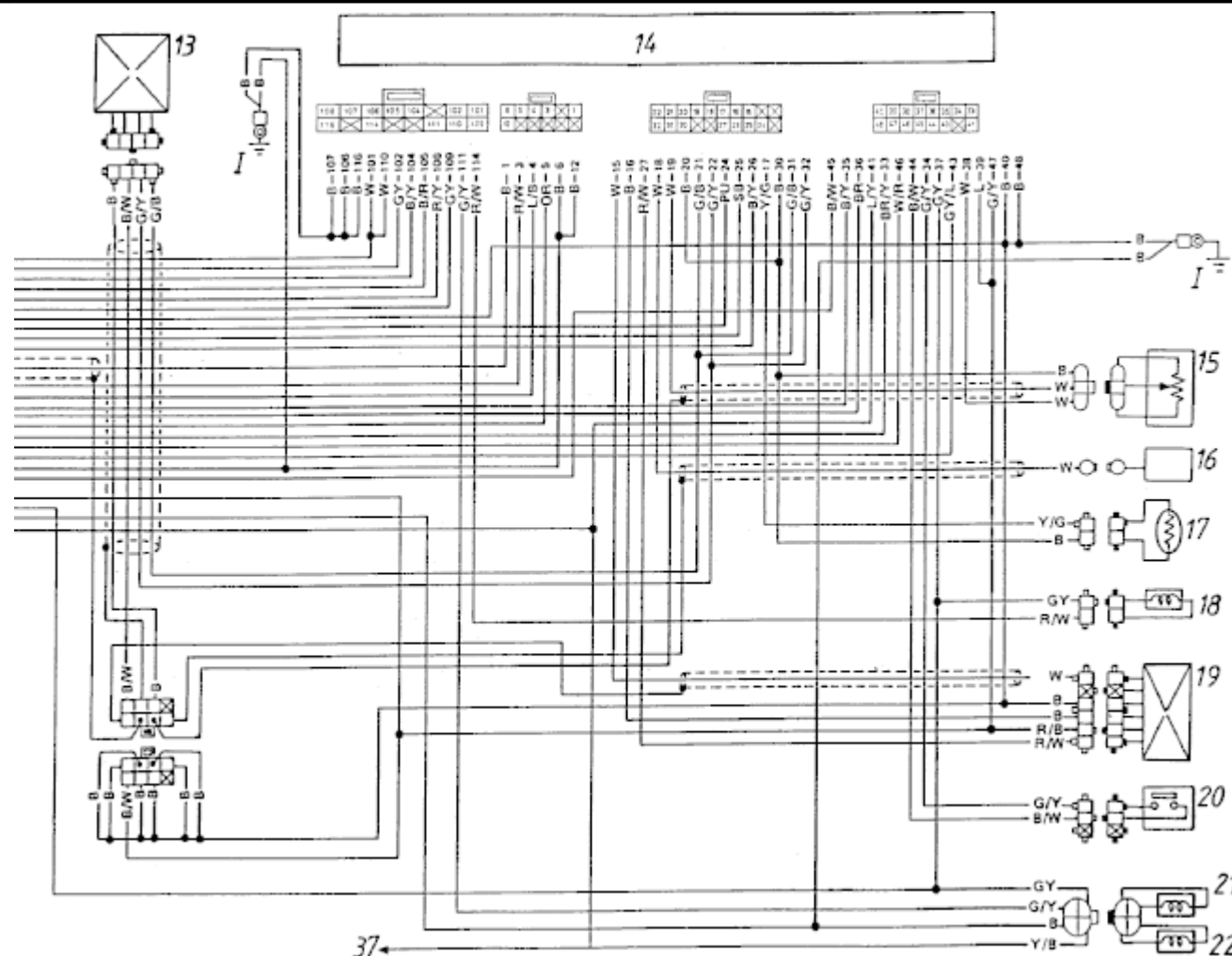


1. Fuse link holder
2. Spark plugs
3. Distributor
4. Power transistor
5. Ignition coil
6. Resistance 2200 Ω and capacitor
7. Mixture pre-heater element
8. EGR and charcoal canister solenoid valve
9. Air induction solenoid valve
10. Power steering switch
11. Ballast resistor
12. Injector
29. Neutral position switch on manual gearbox
30. Start inhibitor switch on automatic transmission
31. Start inhibitor relay on automatic transmission
32. Injection system main relay
33. Mixture pre-heater relay
34. Ignition switch
35. Service connector
36. To air conditioning compressor, if fitted
37. —
38. To starter motor
39. To rev. counter, if fitted

I: Earth on engine block; II: Earth on body

B= Black; BR=Brown; G= Green; GY=Grey; L= Blue; LG= Light green; OR=Orange; P= Pink; PU=Purple; R= Red; SB=Light Blue; W= White; Y= Yellow

GA 16i engine management wiring diagram, not for coupé and Florida/Station Wagon (part 1).



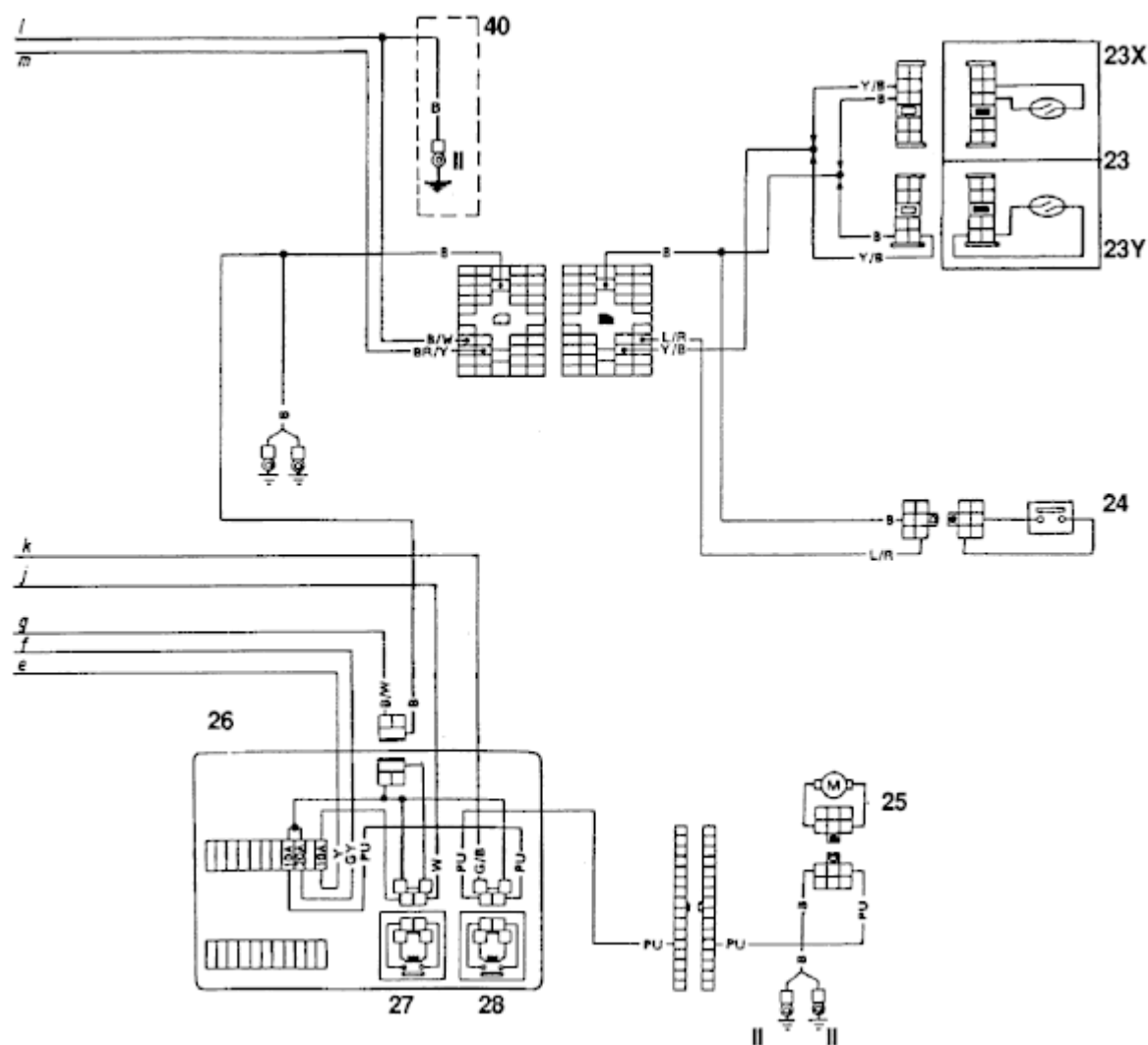
5. Crankshaft position sensor
6. Electronic control unit
7. Throttle valve position sensor
8. Oxygen sensor
9. Coolant temperature sensor
10. Idle speed fine-control solenoid valve
11. Air mass meter
12. Throttle switch
13. Extra idle speed control solenoid valve S (on versions with power steering)
14. Extra idle speed control solenoid valve K (on versions with air-conditioning)
37. To air-conditioning, if fitted

l: Earth on engine block

II: Earth on body

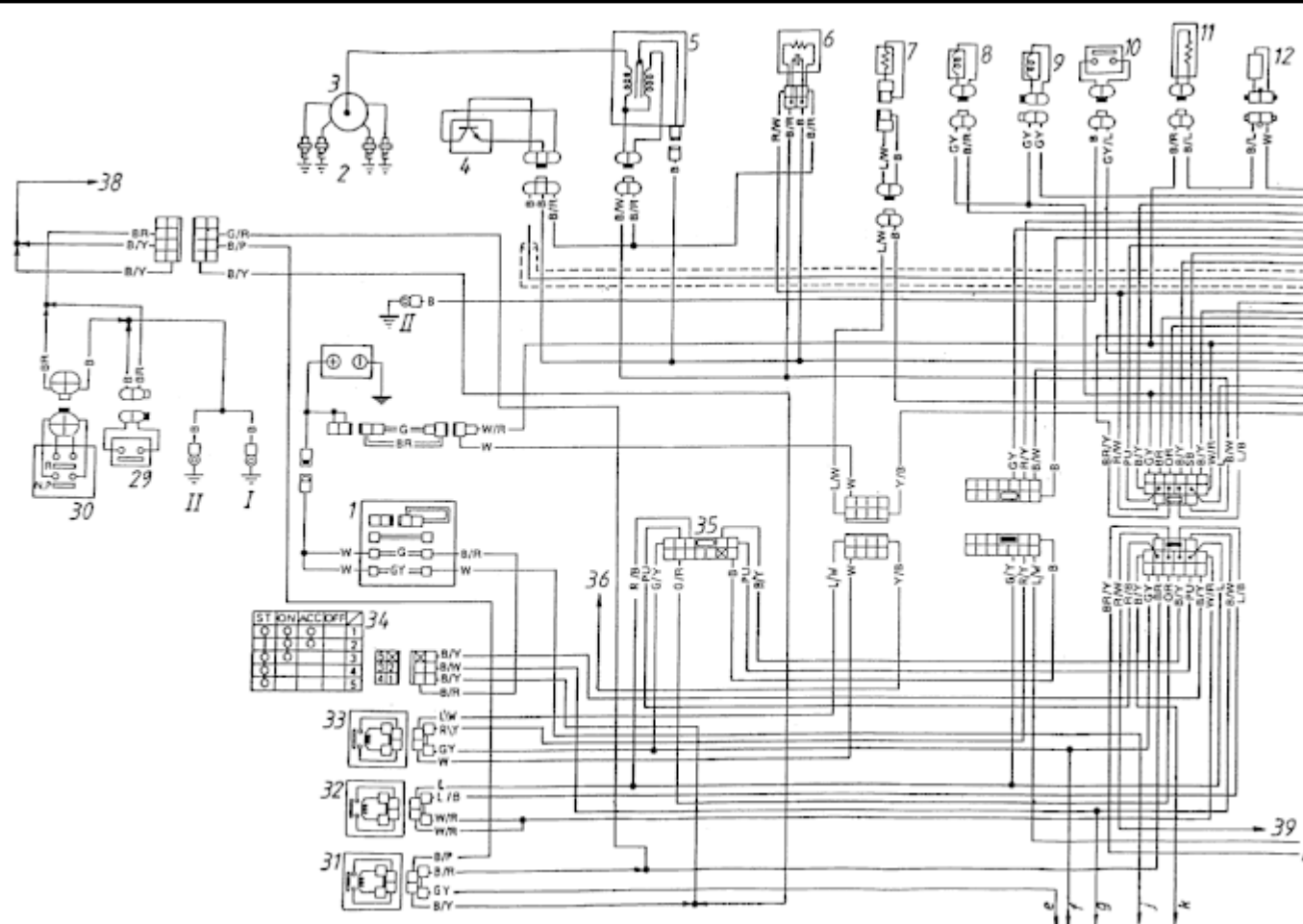
B= Black; BR=Brown; G= Green;
GY=Grey; L= Blue; LG= Light green;
OR=Orange; P= Pink; PU=Purple;
R= Red; SB=Light Blue; W= White;
Y= Yellow

GA 16i engine management wiring diagram, not for coupé and Florida/Station Wagon (part 2).



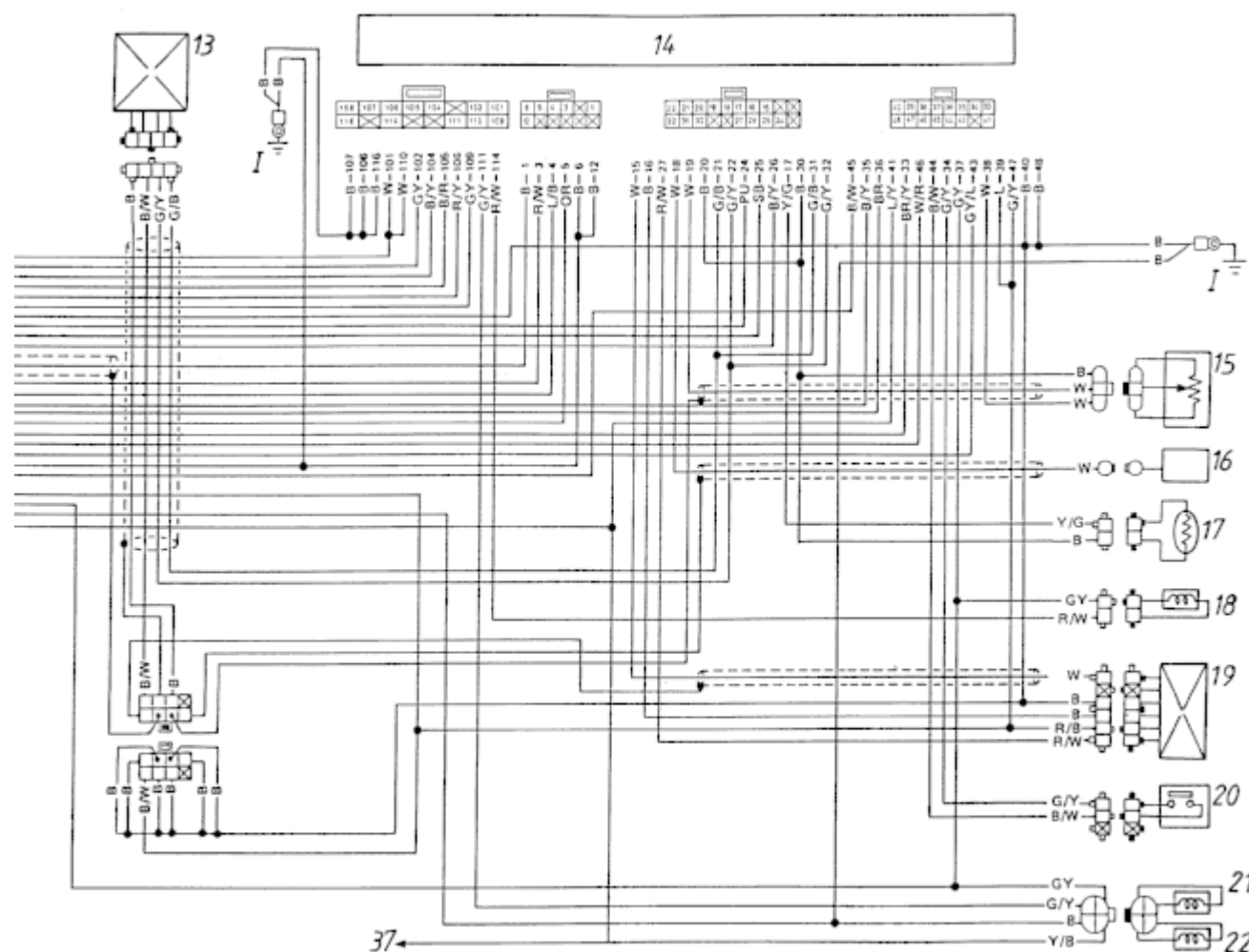
- 15.** Instrument cluster on dashboard
- X.** Vehicle speed sensor (version without rev. counter)
- Y.** Vehicle speed sensor (version with rev. counter)
- 16.** Octane selector, switch LH side of dashboard (if fitted)
- 17.** Fuel pump
- 18.** Fuse box
- 19.** Ignition relay
- 20.** Fuel pump relay
- 40.** Version with headlamp washer or wiper
- I:** Earth on engine block
- II:** Earth on body
- B=** Black; **BR=** Brown; **G=** Green; **GY=** Grey; **L=** Blue; **LG=** Light green; **OR=** Orange; **P=** Pink; **PU=** Purple; **R=** Red; **SB=** Light Blue; **W=** White; **Y=** Yellow

GA 16i engine management wiring diagram, not for coupé and Florida/Station Wagon (part 3).



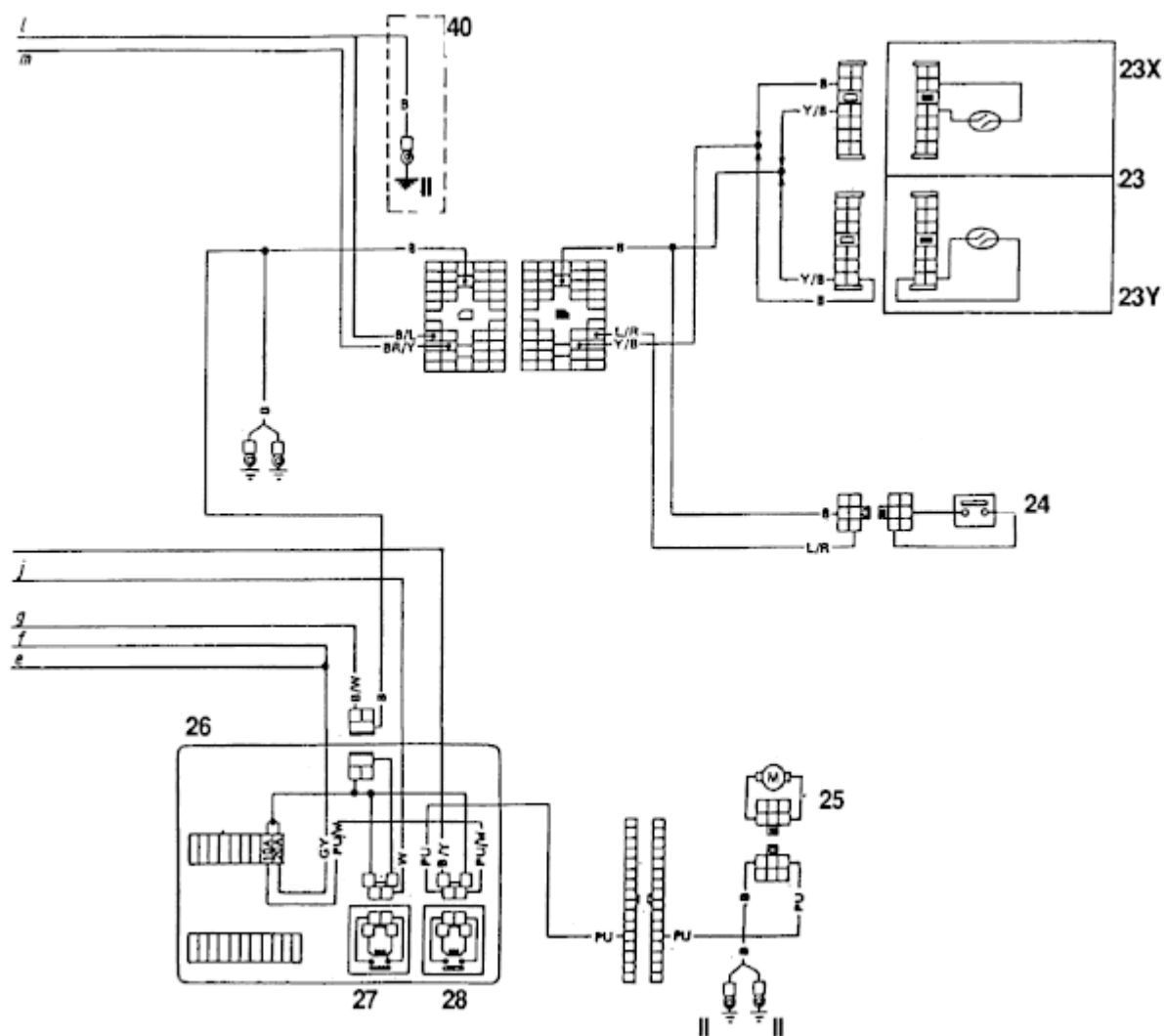
1. Fuse link holder
 2. Spark plugs
 3. Distributor
 4. Power transistor
 5. Ignition coil
 6. Resistance 2200 Ω and capacitor
 7. Mixture pre-heater element
 8. EGR and charcoal canister solenoid valve
 9. Air induction solenoid valve
 10. Power steering switch
 11. Ballast resistor
 12. Injector
 29. Neutral position switch on manual gearbox
 30. Start inhibitor switch on automatic transmission
 31. Start inhibitor relay on automatic transmission
 32. Injection system main relay
 33. Mixture pre-heater relay
 34. Ignition switch
 35. Service connector
 36. To air-conditioning compressor, if fitted
 37. —
 38. To starter motor
 39. To rev. counter, if fitted
- I: Earth on engine block
II: Earth on body

GA 16i engine management wiring diagram for coupé and Florida/Station Wagon (part 1).



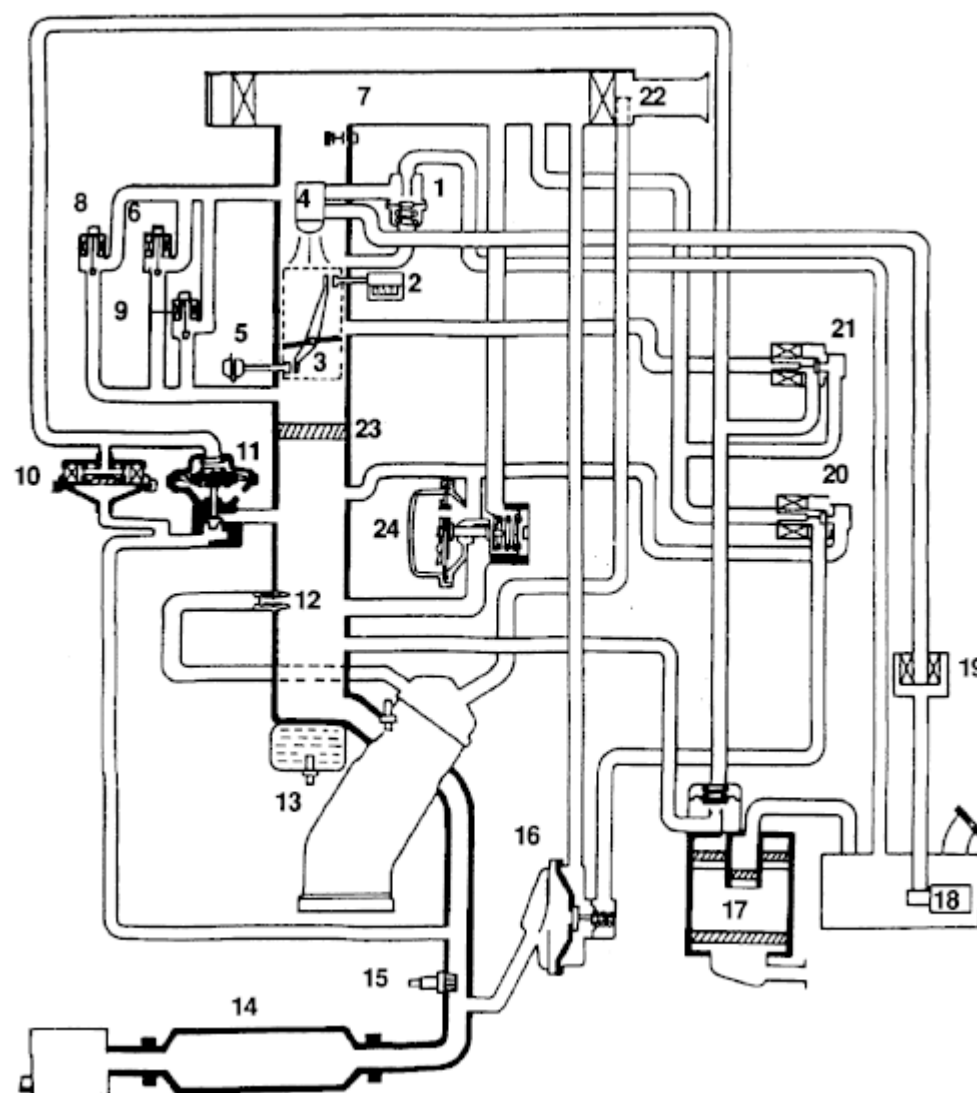
- 13. Crankshaft position sensor
 - 14. Electronic control unit
 - 15. Throttle valve position sensor
 - 16. Oxygen sensor
 - 17. Coolant temperature sensor
 - 18. Idle speed fine-control solenoid valve
 - 19. Air mass meter
 - 20. Throttle switch
 - 21. Extra idle speed control solenoid valve S (on versions with power steering)
 - 22. Extra idle speed control valve K (on versions with air-conditioning)
 - 37. To air-conditioning, if fitted
- I: Earth on engine block
II: Earth on body
- B= Black; BR=Brown; G= Green;
GY=Grey; L= Blue; LG= Light green;
OR=Orange; P= Pink; PU=Purple;
R= Red; SB=Light Blue; W= White;
Y= Yellow

GA 16i engine management wiring diagram for coupé and Florida/Station Wagon (part 2).



23. Dashboard instrument cluster
23X: Vehicle speed sensor (version without rev. counter)
23Y: Vehicle speed sensor (version with rev. counter)
 24. Octane selector, switch on LH side of dashboard (if fitted)
 25. Fuel pump
 26. Fuse box
 27. Ignition relay
 28. Fuel pump relay
40. Version with headlamp washer or wiper
 I: Earth to engine block
 II: Earth to body
 B= Black; BR=Brown; G= Green; GY=Grey; L= Blue; LG= Light green; OR=Orange; P= Pink; PU=Purple; R= Red; SB=Light Blue; W= White; Y= Yellow
 Combination: X/Y = wire coloured X, marked with a Y coloured stripe.

GA 16i engine management wiring diagram for coupé and Florida/Station Wagon (part 3).

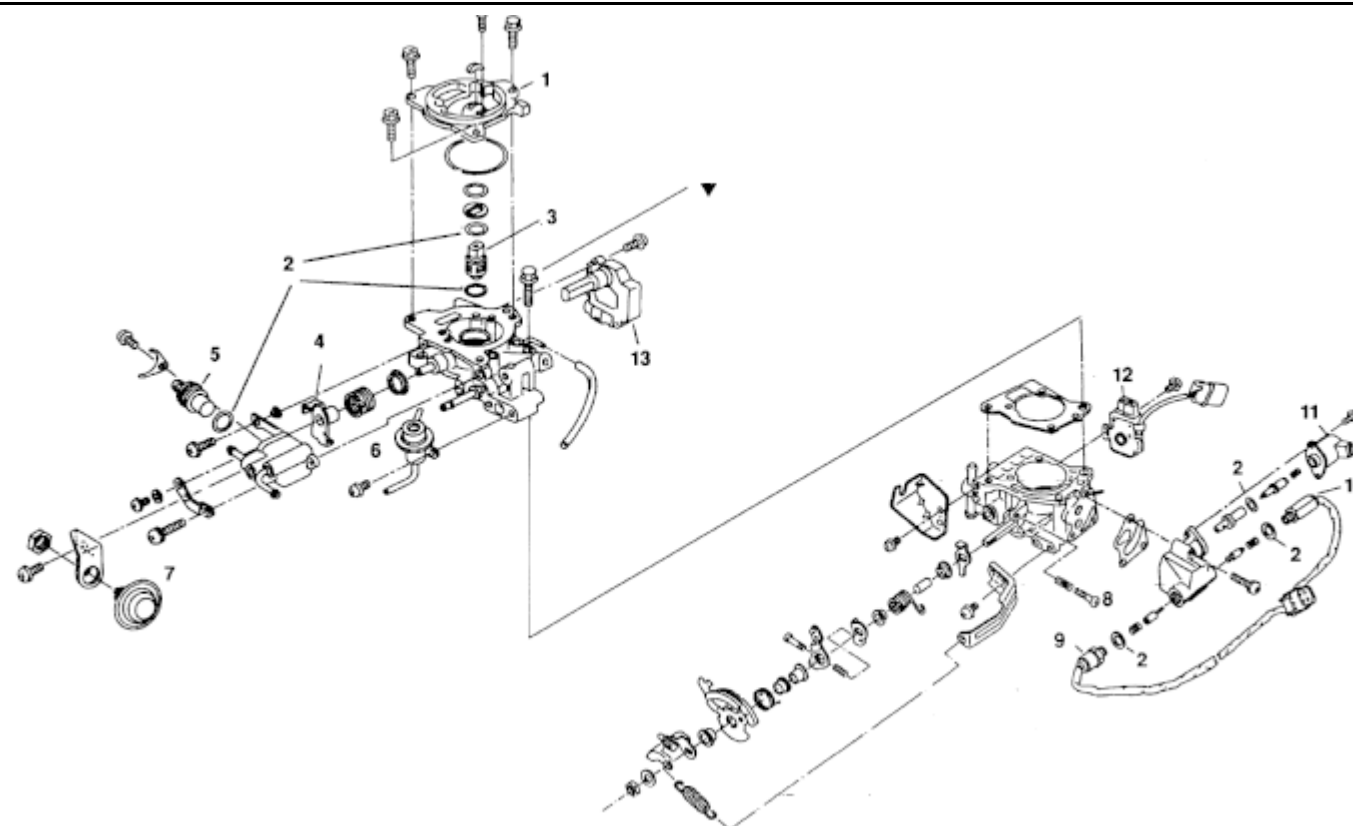


1. Fuel pressure regulator
2. Fast idle speed thermal element and control lever
3. Throttle switch and sensor
4. Injector
5. Dashpot
6. Extra idle speed control solenoid valve K
7. Air mass meter
8. Extra idle speed control solenoid valve S
9. Fine idle speed control
10. Flap valve
11. EGR control valve
12. PCV valve
13. Coolant temperature sensor
14. Catalytic converter
15. Oxygen sensor
16. Air induction control valve
17. Charcoal canister
18. Fuel pump
19. Fuel filter
20. Air induction solenoid valve
21. EGR and charcoal canister solenoid valve
22. Filter
23. Mixture pre-heater
24. Extra-air valve

GA 16i engine, air and vacuum system

Mixture and exhaust emission control systems

Injection unit



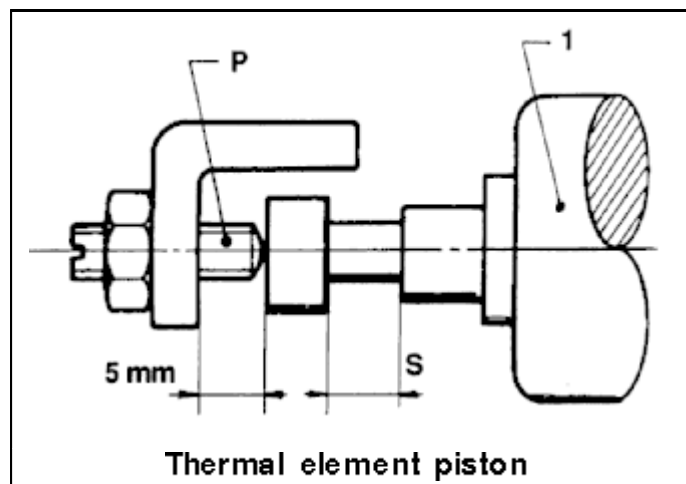
injection unit

1. Cover plate
2. O ring; use new ring and coat lightly with engine oil
3. Injector
4. Fast idle speed control lever
5. Fast idle speed thermal element
6. Pressure regulator
7. Dashpot
8. Volume adjustment screw
9. Extra idle speed control solenoid valve S
10. Extra idle speed control solenoid valve K
11. Idle speed fine-control solenoid valve
12. Throttle switch and sensor
13. Air mass meter

▼: Use sealant

Checking and setting fast idle speed

Run the engine warm until the radiator fan switches on. Measure the thermal element piston travel S , see the illustration.



$S < 8,2$ mm or $S > 12,5$ mm: Replace the thermal element. Turn adjustment screw P with reference to the drawing. Re-measure S .

$S = 8,2 - 8,9$ mm or $S = 11,8 - 12,5$ mm: See A. and B.
 $S = 8,9 - 11,8$ mm: See B.

A.

Adjust the actuator lever to the following formula:

$$N = (S - 10,40) / 0,5$$

S in mm.

N is the number of anti-clockwise turns of adjustment screw P .

Example: If $N = -2,5$ then P must be given 2,5 clockwise turns.

B.

Run the engine warm until the radiator fan switches on. With a feeler gauge measure the clearance K between the control cam and follower lever roller, see the illustration.

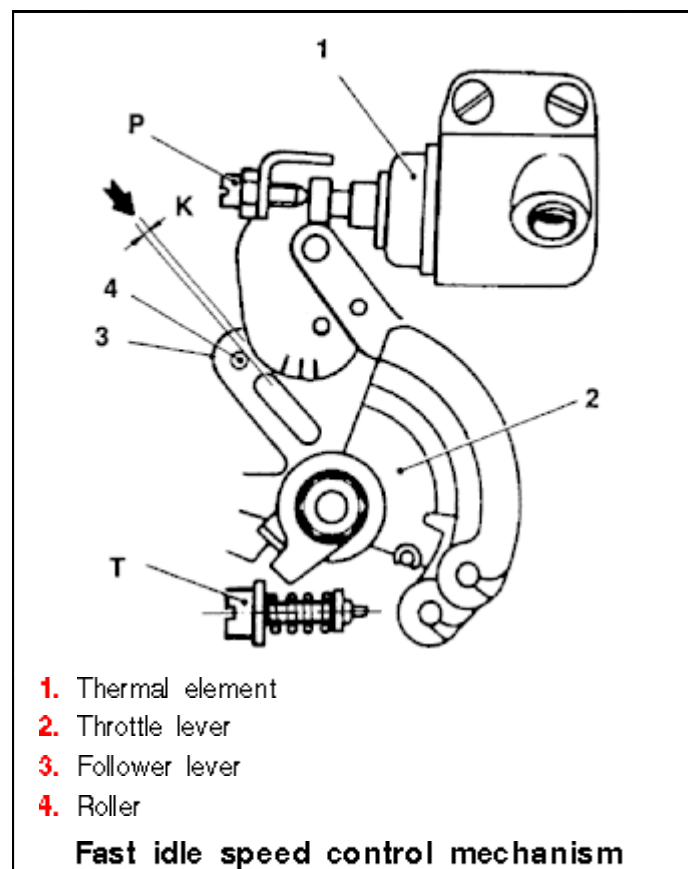
$K = 1,8 - 4,9$ mm on versions with manual gearbox.

$K = 1,9 - 5,4$ mm on versions with automatic transmission.

If K is not within the limits, turn adjustment screw T until the following values are obtained:

$K = 2,1 - 4,1$ mm on versions with manual gearbox.

K = 2,4 - 4,9 mm on versions with automatic transmission.



Checking and adjusting Dashpot

Engine at operating temperature: Check that the idle speed is correct. Turn the throttle lever by hand. Check that the dashpot rod just touches the lever at 2000 ± 200 /min on versions with manual gearbox and 2400 ± 400 /min on versions with automatic transmission. If necessary, turn the lever adjustment screw.

Checking fuel pressure

Release the fuel pressure. Remove the fuel pump fuse. This is fuse No. 8 of the top row in the fuse box, at the left below the dashboard. Start the engine. Switch the starter motor 3 times on after the engine has stalled. Switch off the ignition.

Fit a manometer between the fuel supply hose and the injection unit connection. Replace the fuel pump fuse. Start the engine. Check for fuel leaks.

The fuel pressure with engine at idle speed should be 0,98 bar.

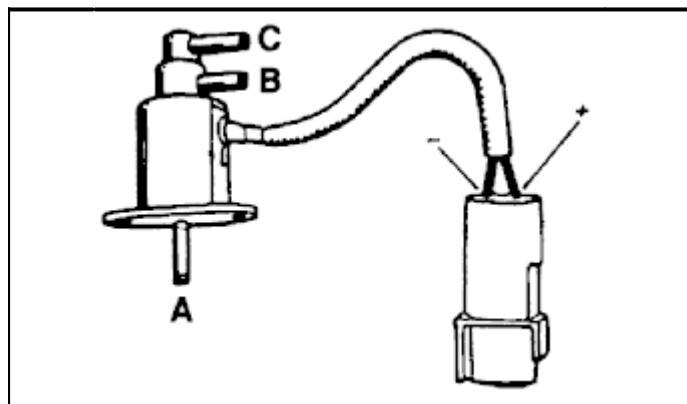
Release the fuel pressure. Re-connect the supply pipe to the injection unit.

EGR and charcoal canister solenoid valve

Disconnect the connector. With an Ohmmeter check for continuity between both connector pins.

Disconnect all vacuum hoses from the valve. Check the connection between A, B and C, see the illustration.

B and C are connected with non activated solenoid valve. A and B are connected with battery voltage on the connector pins (= activated solenoid valve).

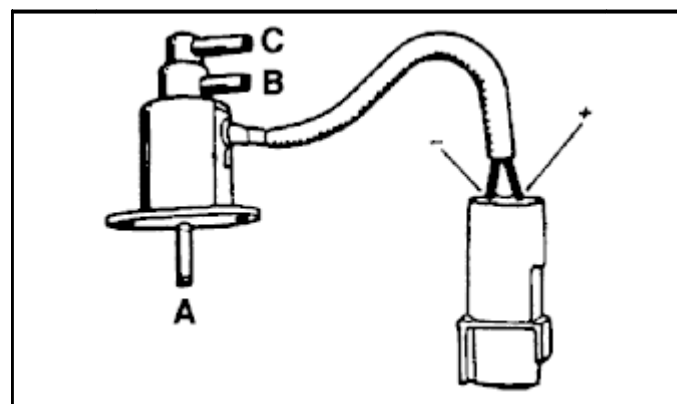


EGR control valve

Apply vacuum to the vacuum diaphragm. The valve must be fully open at minimum 120 mmHg vacuum.

Air induction solenoid valve

Disconnect the connector. With an Ohmmeter check for a continuity between both connector pins. Disconnect all vacuum hoses from the valve. Check the connection between A, B and C, see the illustration. B and C are connected with non activated solenoid valve. A and B are connected with battery voltage on the connector pins (= activated solenoid valve).



- CA16DE and 18DE engines: no data available