

# System Description

## General

Simtec 56.5 is a fuel injection and ignition system that is used in Opel and Vauxhall cars. The system uses certain sensors which operate in an unusual way. The first is the camshaft sensor, which is described on page 5. The second is the lambda sensor which, unlike the lambda sensor in other systems, has a signal that alternates between 0-5 V.

### Note:

It is important that the connection of the equipment is done according to Users Guide (page 6).

## Summary – Car Models

The following car models are equipped with Simtec 56.5:

<b>Manufacturer</b>	<b>Engine size</b>	<b>Engine</b>	<b>Model</b>
Calibra	20	X20XE	95-
Astra-F	1.8	X18XE	95-
Astra-F	20	X20XE	95-
Vectra-B	1.8	X18XE	95-
Vectra-B	20	X20XE	95-
Omega	1.8	X18XE	95-
Omega	20	X20XE	95-

Please check the workshop manual to verify if the actual car is equipped with a system described in this manual.

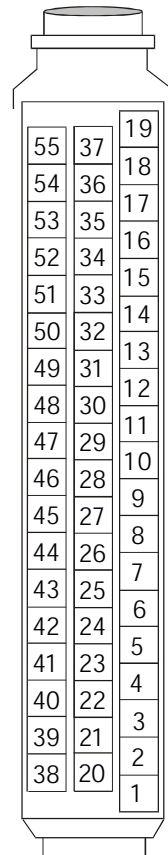
# Interface - Signal Locations

1. Diagnosis
2. Ground from chassis
3. Loadsignal to automatic gear\*
4. Status signal from automatic transmission\*
5. Signal from speedometer
6. Gearchange time signal from automatic transmission\*
7. Ground from chassis
8. Signal from air temperature sensor
9. Status signal from air conditioning system\*
10. Signal from lambda sensor
11. Ground from chassis
12. Signal from knock sensor
13. Signal from camshaft sensor
14. Ground to air mass meter
15. Ground from chassis
16. Power supply to crankshaft sensor
17. Power from ignition switch (terminal 15)
18. Power supply to throttle potentiometer
19. Ground from chassis
20. Engine speed signal to revolution counter
21. Fuel consumption signal to boardcomputer
22. Diagnosis
23. Signal from air conditioning compressor
24. Signal from crankshaft sensor
25. Not connected
26. Signal from throttle potentiometer
27. Signal from coolant temperature sensor
28. Not connected
29. Ground from chassis
30. Signal from knock sensor
31. Oscillation signal to the camshaft sensor
32. Ground to camshaft sensor
33. Signal from air mass meter
34. Control signal to the air conditioning compressor relay\*
35. Power supply from main relay
36. Power supply to lambda sensor
37. Not connected
38. Control signal to ignition amplifier, cylinder 2 & 3
39. Control signal to ignition amplifier, cylinder 1 & 4
40. Control signal to injection valve, cylinder 4
41. Control signal to injection valve, cylinder 2
42. Control signal to injection valve, cylinder 1
43. Control signal to injection valve, cylinder 3
44. Power supply from main relay

45. Control signal to EGR-valve
46. Control signal to idle speed correction valve
47. Control signal to tank ventilation valve
48. Control signal to lambda sensor pre-heater
49. Control signal to main relay
50. Control signal to secondary air injection
51. Not connected
52. Engine control lamp
53. Control signal to adjustable manifold valve\*\*
54. Control signal to fuel pump relay
55. Constant power supply from battery

\* If AC/Automatic  
\*\* Not OMEGA-B

## Wiring



# Wiring Diagram

This wiring diagram is an example. Check in the relevant workshop manual for the diagram of the car you are working with.

