

# System Description

## General

Multec 64 is a combined control system for fuel injection and ignition. It also controls idle speed, EGR-valve etc. Multec 64 comes in both multipoint and singlepoint configurations.

The multipoint system meters the fuel via four fuel injection valves using a MAP sensor as the main input signal. The fuel amount is also compensated with regards to the engine coolant and intake air temperature as well as the signal from the oxygen sensor.

The singlepoint system uses only a single fuel injection valve centrally placed on the intake manifold. This configuration also uses a MAP sensor as the main input signal for fuel metering. The fuel amount is also compensated with regards to the engine coolant as well as the signal from the oxygen sensor.

## Connectors

In some models the connector E-F are called C-D (see workshop manual).

## Summary – Car Models

The following car models are equipped with Multec 64:

Manufacturer	Type	Model	Engine
Opel	Astra-F	94±	1.6 L
Opel	Corsa-B	94±	1.4 L
Opel	Corsa-B	94±	1.6 L
Opel	Tigra	94±	1.4 L
Opel	Tigra	94±	1.6 L
Opel	Vectra	94±	1.6 L
Fiat	Punto	94±	1.6 L
Lancia	Dedra	94±	1.6 L
Alfa Romeo	145/146	94±	1.6 L

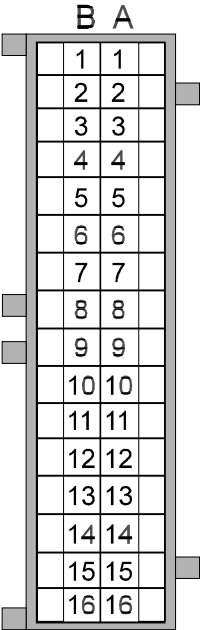
Please check the workshop manual to verify if the actual car is equipped with a system described in this manual.

Interface - Signal Locations

Wiring harness A-B

- A1 Control signal to idle speed correction
- A2 Control signal to idle speed correction
- A3 Control signal to idle speed correction
- A4 Control signal to idle speed correction
- A5 Signal from camshaft sensor\*
- A6 Constant power supply from battery
- A7 Signal from MAP sensor
- A8 Status signal from Air Cond. system\*
- A9 Control unit AT (engine load)\*
- A10 Control signal to secondary air relay\*
- A11 Control signal to secondary air valve\*
- A12 Control signal to fuel pump relay
- A13 Control signal to tank ventilation valve
- A14 Not connected
- A15 Control signal to air condition relay
- A16 Signal from crankshaft sensor
- B1 Ground from chassis
- B2 Ground to sensors
- B3 Signal from coolant temperature sensor
- B4 Signal from air temperature sensor\*
- B5 Air condition\*
- B6 Not connected
- B7 Not connected
- B8 Status signal from automatic gearbox (P/N)\*
- B9 Diagnosis\*
- B10 Control signal to engine control lamp
- B11 Diagnosis\*
- B12 Computer\*
- B13 Engine speed signal\*
- B14 Signal from crankshaft sensor
- B15 Not connected
- B16 Not connected

\* Only some models.



## Wiring harness E-F (C-D)

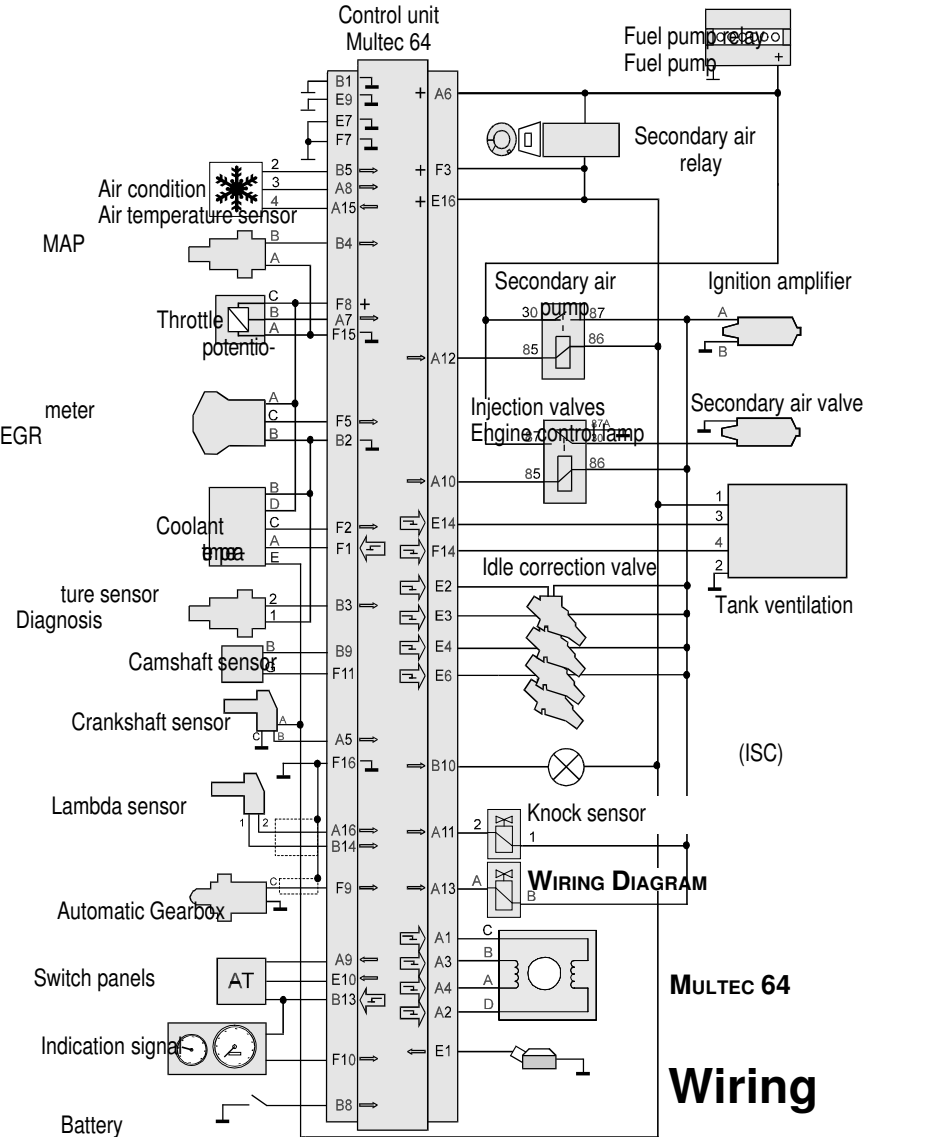
- E1 Signal from knock sensor\*
- E2 Control signal to injection valves\*
- E3 Control signal to injection valves\*
- E4 Control signal to injection valves
- E5 Not connected
- E6 Control signal to injection valves\*
- E7 Ground from chassis\*
- E8 Not connected
- E9 Ground from chassis\*
- E10 Control unit AT (engine load)\*  
Diagnosis\*
- E11 Signal from knock sensor\*
- E12 Not connected
- E13 Not connected
- E14 Control signal to ignition amplifier
- E15 Not connected
- E16 Power from ignition switch
- F1 Control signal to EGR-valve\*
- F2 Signal from EGR-valve\*
- F3 Power from ignition switch
- F4 Not connected
- F5 Signal from throttle potentiometer
- F6 Not connected
- F7 Ground from chassis\*
- F8 Power to sensors
- F9 Signal from Lambda sensor\*
- F10 Dash board (distance sensor)
- F11 Diagnosis
- F12 Not connected
- F13 Not connected
- F14 Control signal to ignition amplifier
- F15 Ground to sensors
- F16 Ground from chassis

\* Only some models

F E			
1	1		
2	2		
3	3		
4	4		
5	5		
6	6		
7	7		
8	8		
9	9		
10	10		
11	11		
12	12		
13	13		
14	14		
15	15		
16	16		

Wiring Diagram Opel Multipoint

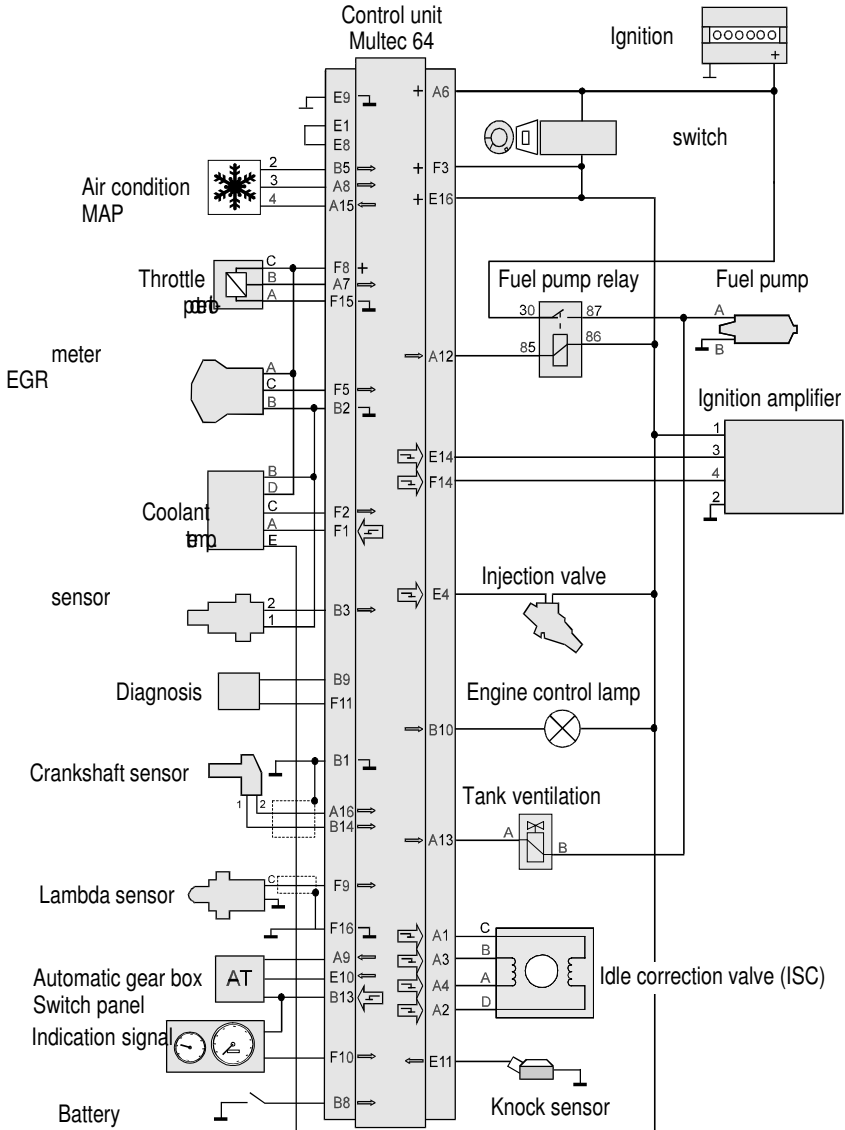
This circuit diagram is an example. Check the workshop manual for the right circuit diagram to the car in question.



# Diagram Opel

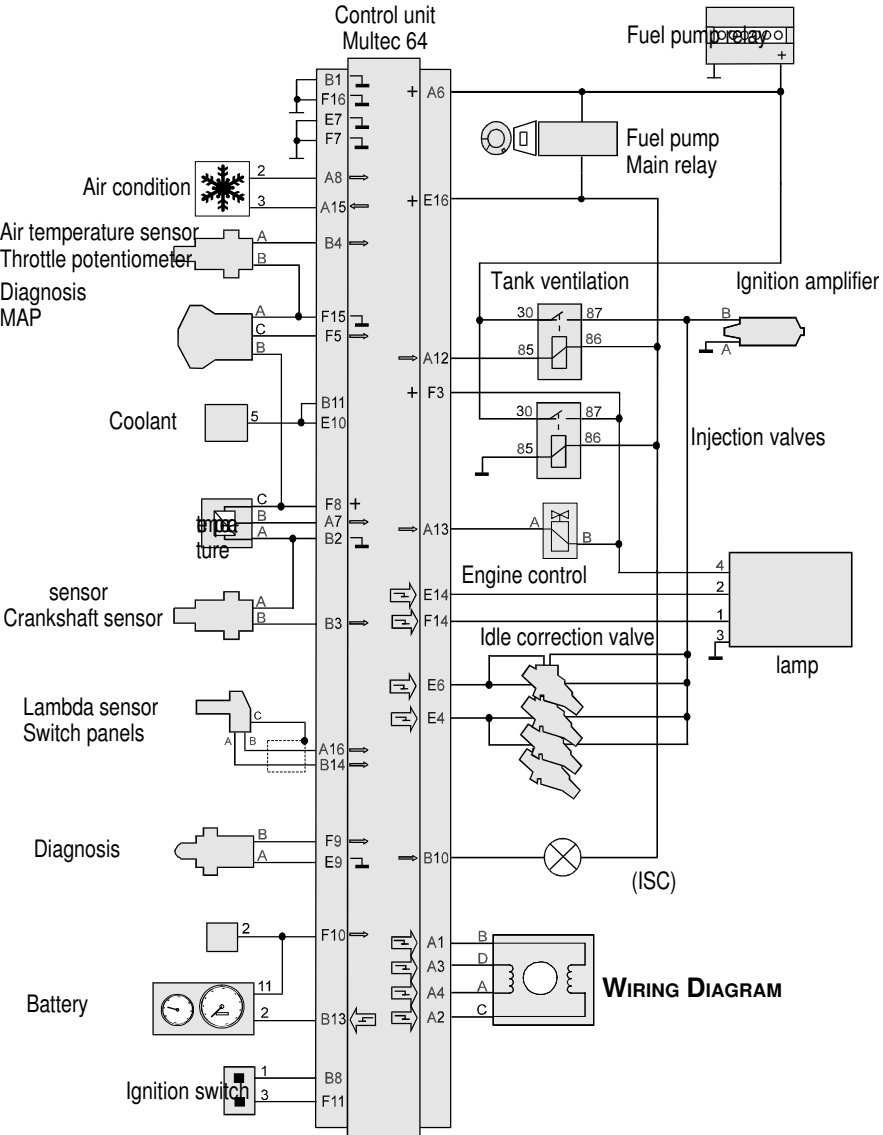
## Singlepoint

This circuit diagram is an example. Check the workshop manual for the right circuit diagram to the car in question.



Wiring Diagram Alfa

This circuit diagram is an example. Check the workshop manual for the right circuit diagram to the car in question.



# Wiring Diagram Fiat/Lancia

This circuit diagram is an example. Check the workshop manual for the right circuit diagram to the car in question.

