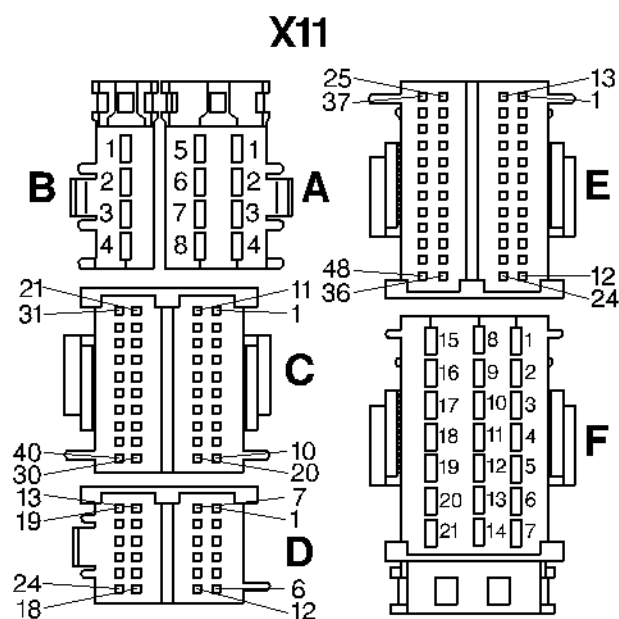


Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

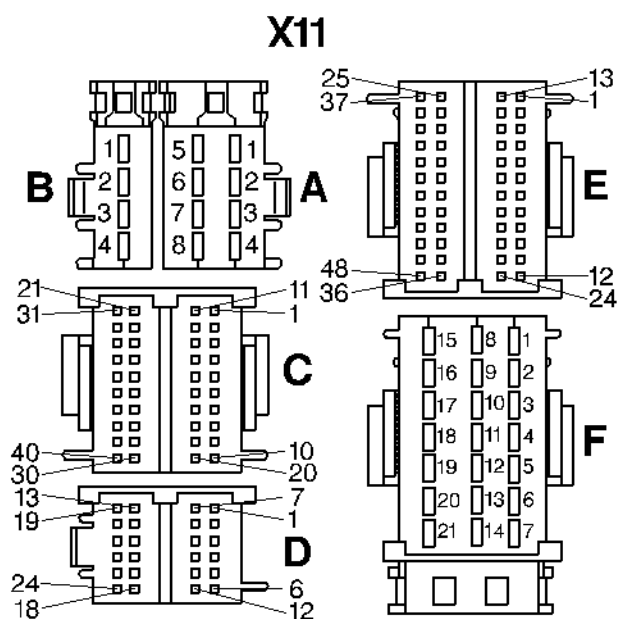
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

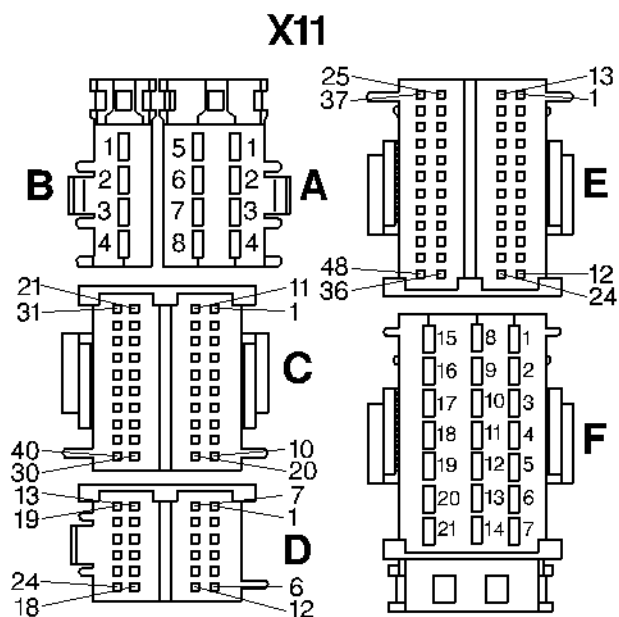
Pin allocation for engine management
X11F control unit plug:

Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo	MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
País de fabricação	D
Cilindrada/Potência	1.8 / 90 kW
Identificação do motor	M 111.921
Código RB	MB 3316
Área	Total
Sistema	Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

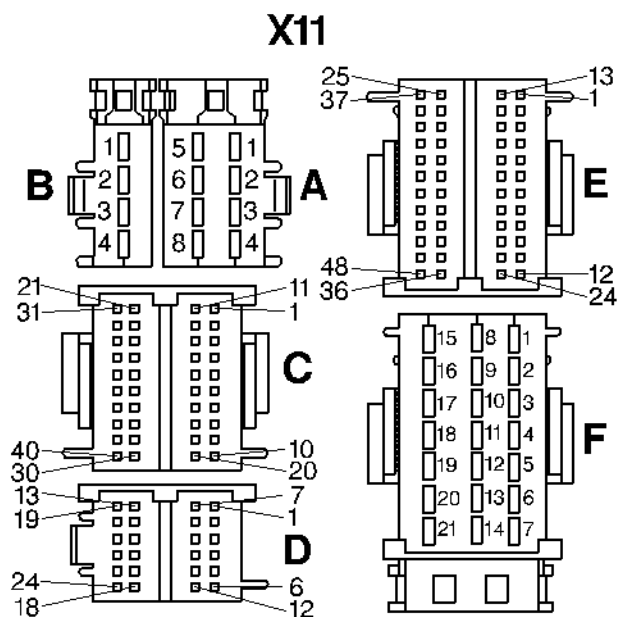
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
 X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
 X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
 X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

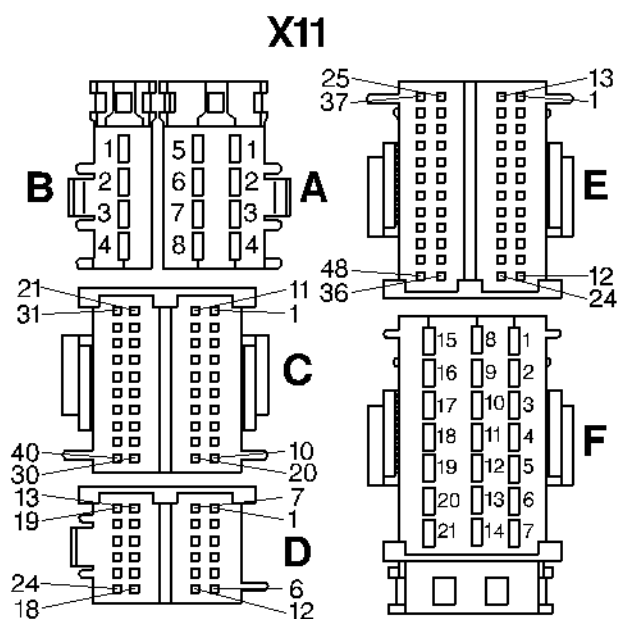
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
 X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
 X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
 X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

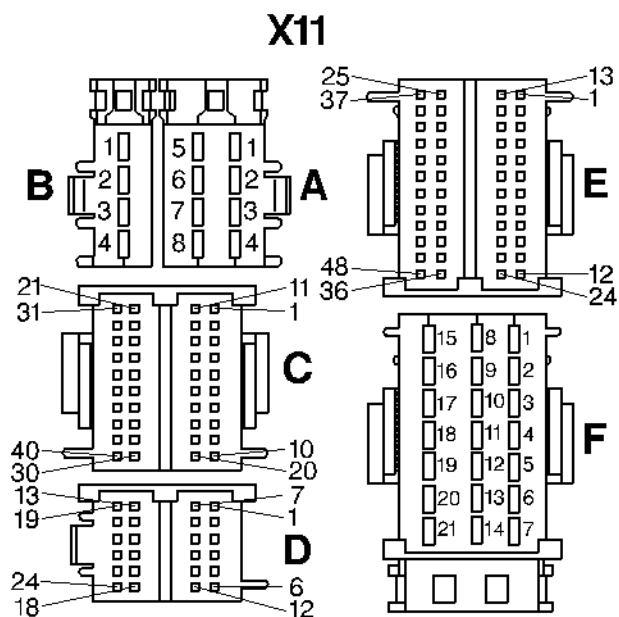
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
 X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
 X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
 X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

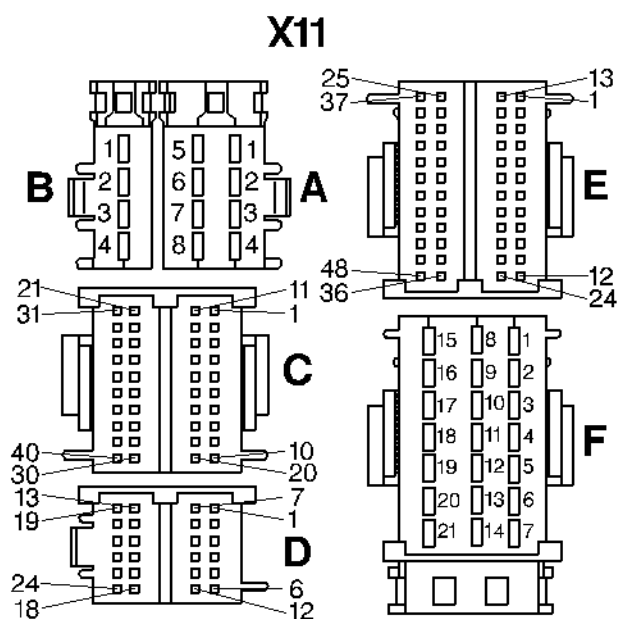
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

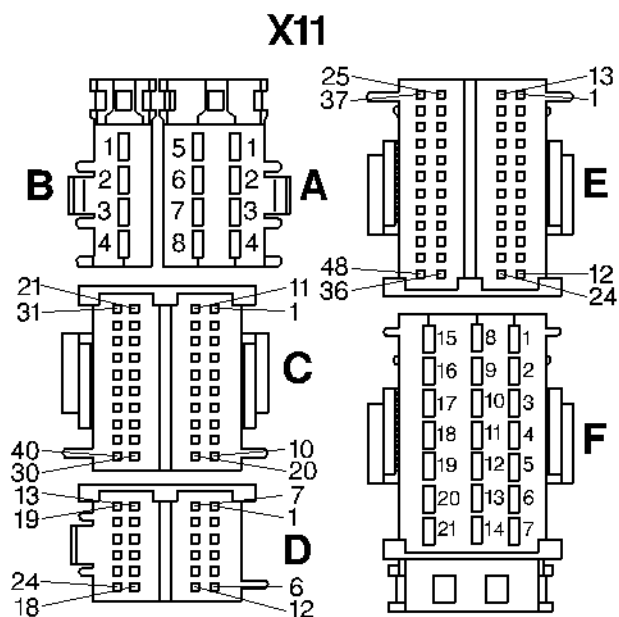
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
 X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
 X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
 X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

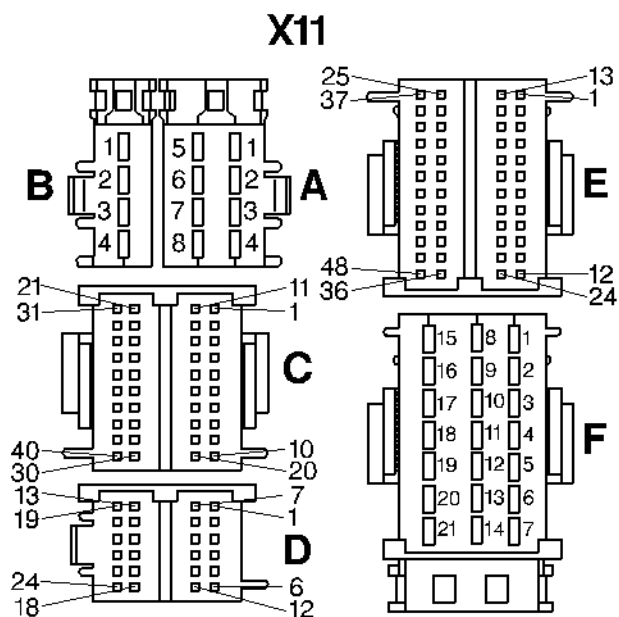
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
 X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
 X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
 X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

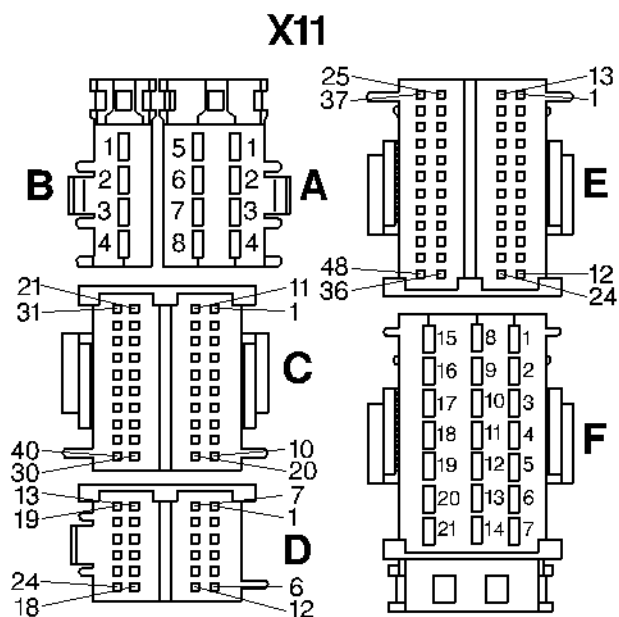
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

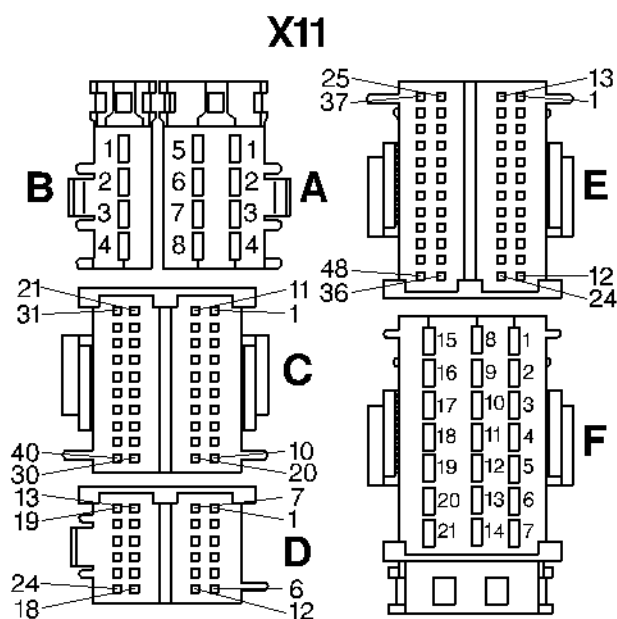
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

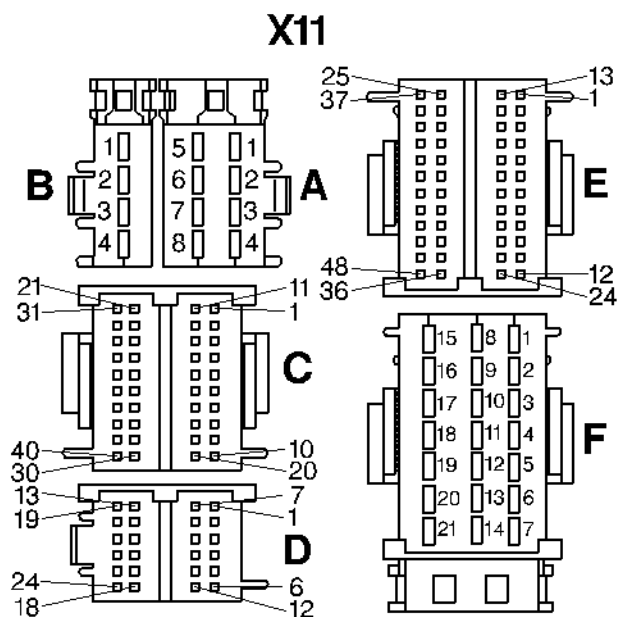
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
 X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
 X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
 X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

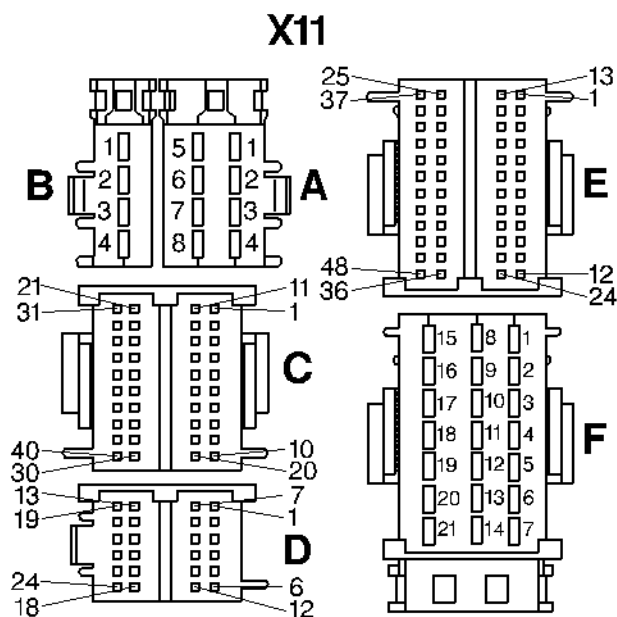
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
 X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
 X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
 X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

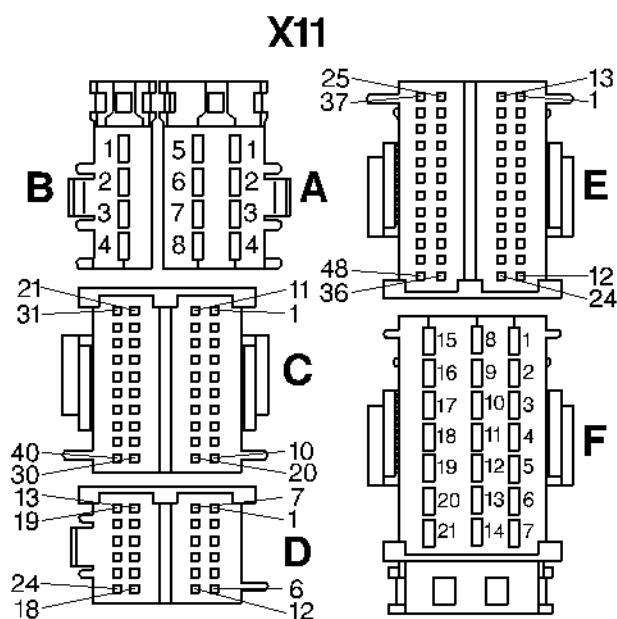
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

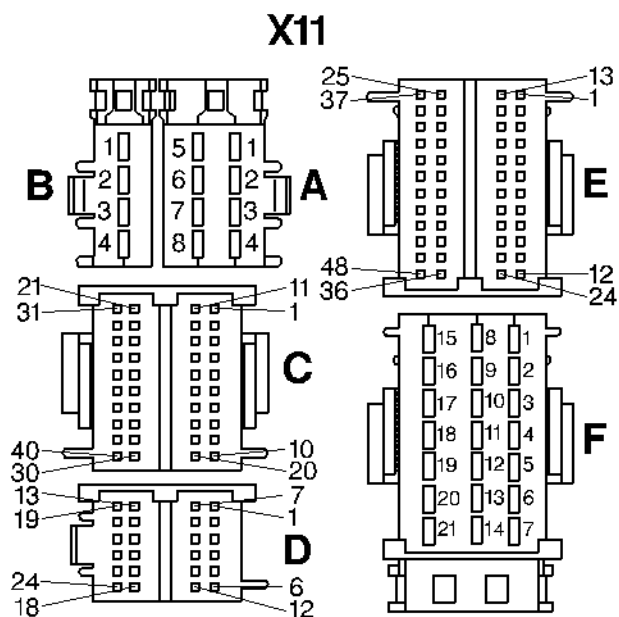
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
 X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
 X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
 X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

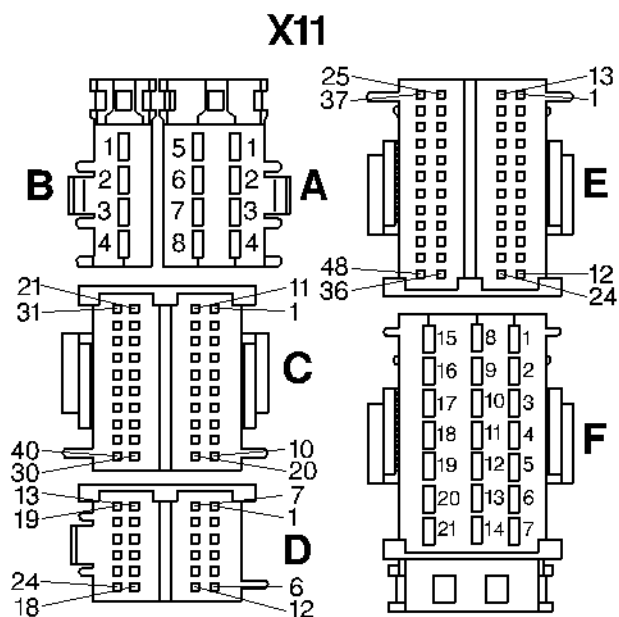
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
 X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
 X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
 X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

Pin allocation for engine management
X11F control unit plug:

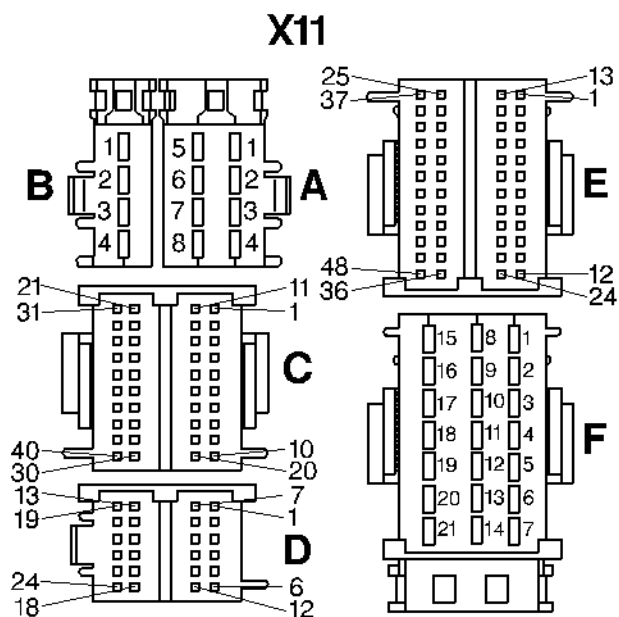
Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13470



ELECTRICAL TERMINAL DIAGRAM

Pin allocation for engine management
 X11A control unit plug:

Pin

- 1 --
- 2 Power supply terminal 87
- 3 Ground
- 4 --
- 5 Lambda sensor heating
- 6 Monitoring electric intake air blower motor / air conditioning (only if air conditioning fitted)

Pin allocation for engine management
 X11D control unit plug:

- 22 Vehicle speed controller push button, attain stored speed
- 23 Vehicle speed controller push button, safety contact
- 24 Vehicle speed controller push button, vehicle speed controller off

Pin allocation for engine management
 X11E control unit plug:

7 Ground
8 Ground

Pin allocation for engine management
X11B control unit plug:

Pin

1 --
2 --
3 Programming port for diagnostic
test connection
4 Power supply terminal 30

Pin assignment of engine-management
control-unit plug X11C:

Pin

1-20 --
21 Evaporative emission-control
regeneration valve
22 Pedal-travel sensor,
potentiometer 1, power supply +
23 Pedal-travel sensor,
potentiometer 1, power supply -
24 Pedal-travel sensor,
potentiometer 1, wiper pick-off

Pin assignment of engine-management
control-unit plug X11C:

Pin

25 Pedal-travel sensor,
potentiometer 2, wiper pick-off
26 Pedal-travel sensor,
potentiometer 2, power supply -
27 Pedal-travel sensor,
potentiometer 2, power supply +
29 Electric fuel-pump relay
30 --

Pin allocation for engine management
X11C control unit plug:

Pin

31 Lambda sensor signal ground
32 Lambda sensor signal
33-37 --
38 Engine speed
39 38-pole diagnostic test
connection
40 Terminal 50, starter

Pin

1 --
2 --
3 --
4 Camshaft actuator
5 --
6-9 --
10 --
11 --
12 --

Pin allocation for engine management
X11E control unit plug:

Pin

13 Solenoid-operated fuel injector
cylinder 4
14 Solenoid-operated fuel injector
cylinder 2
15-16 --
17 Oil level switch
18-24 --
25 Solenoid-operated fuel injector
cylinder 1
26 Solenoid-operated fuel injector
cylinder 3

Pin assignment of engine-management
control-unit plug X11E:

Pin

27 --
28 Engine-temperature sensor ground
29 Engine-temperature sensor signal
30 --
31 Throttle-valve actuator,
potentiometer 1, wiper pick-off
32 Throttle-valve actuator,
potentiometer 1/2, power supply (-)
33 Throttle-valve actuator,
potentiometer 1/2, power supply (+)

Pin assignment of engine-management
control-unit plug X11E:

Pin

34 Throttle-valve actuator,
potentiometer 2, wiper pick-off
35 --
36 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 1 --
- 2 --
- 3 Starter relay
- 4 --
- 5 --
- 6 --
- 7 --
- 8 --
- 9 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 10 --
- 11 CAN data cable H
- 12 CAN data cable L
- 13 --
- 14 Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission
- 15 --
- 16 --

Pin allocation for engine management
X11D control unit plug:

Pin

- 17 --
- 18 --
- 19 P/N detection for automatic transmission control unit
Clutch switch for manual transmission
- 20 Vehicle speed controller push button, accelerate, maintain speed
- 21 Vehicle speed controller push button, decelerate, maintain speed

- 37 Crankshaft-position sensor, ground
- 38 Crankshaft-position sensor, signal
- 39 Camshaft-position sensor, ground
- 40 Camshaft-position sensor, signal
- 41 Knock sensor, ground

Pin assignment of engine-management control-unit plug X11E:

Pin

- 42 Knock sensor, signal
- 43 --
- 44 --
- 45 Air-mass meter, air-temperature sensor
- 46 Air-mass meter, power supply + (5V)
- 47 Air-mass meter, signal
- 48 Air-mass meter, ground

Pin assignment of engine-management control-unit plug X11F:

Pin

- 1 Throttle-valve actuator, power supply (-)
- 2 Throttle-valve actuator, power supply (+)
- 3-7 --
- 8 Power ground
- 9-12 --
- 13 Ignition coil 2, ignition circuit 1/4
- 14 --

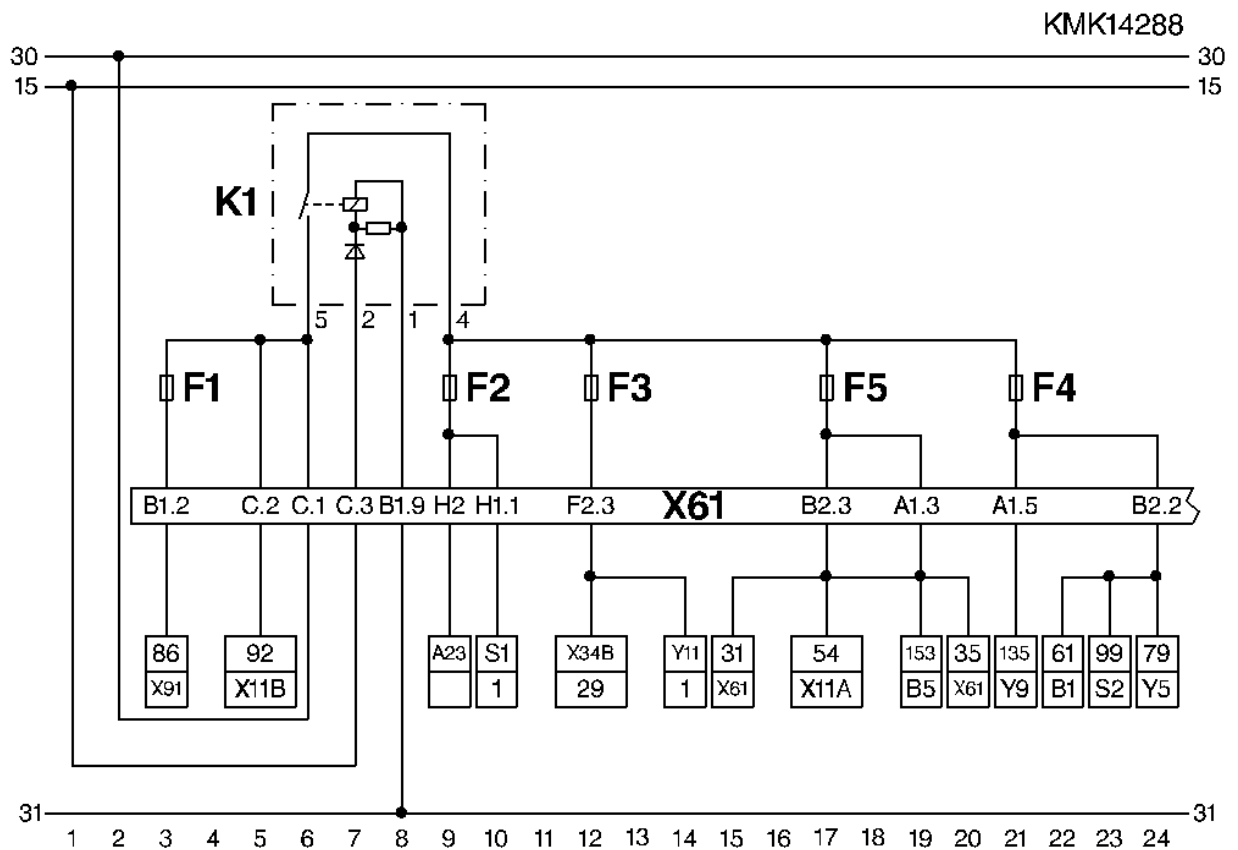
Pin allocation for engine management
X11F control unit plug:

Pin

- 15 Power earth
- 16-19 --
- 20 Ignition coil 1, ignition circuit 2/3
- 21 --

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1



ELECTRICAL TERMINAL DIAGRAM

A23 = Antilock braking system (ABS),
 Traction control system (ASR),
 Electronic traction control
 system

B1 = Lambda sensor before catalytic
 converter

B5 = Camshaft position sensor

F1 = Fuse no. 1, 7.5A *

F2 = Fuse no. 2, 10A *

F3 = Fuse no. 3, 10A *

F4 = Fuse no. 4, 15A *

F5 = Fuse no. 5, 20A *

K1 = Main relay

S1 = Brake light switch

S2 = Vehicle speed controller switch

* in fuse and relay module

X11A/B = Engine management control unit
 plug

X34B = Transmission control unit plug

X61 = Fuse and relay module plug

X91 = Diagnostic test connection

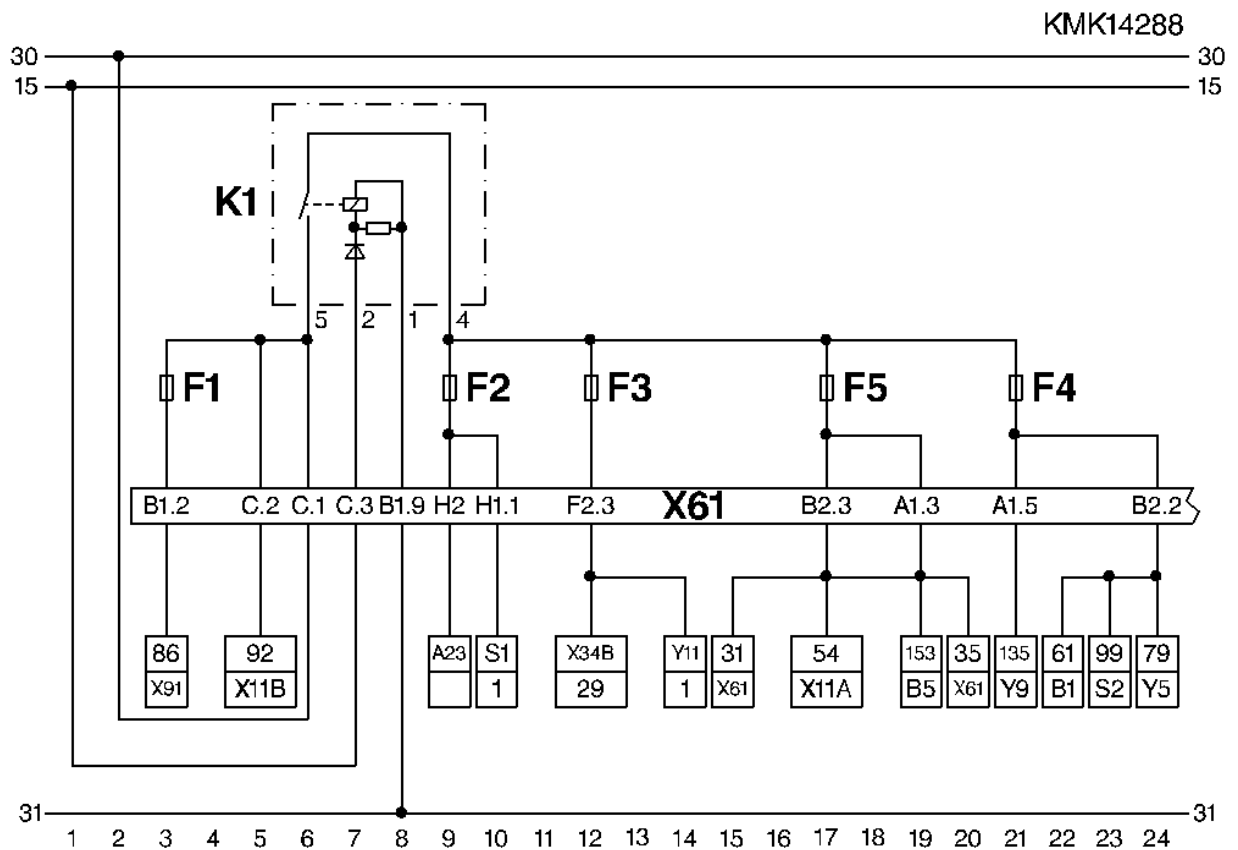
Y5 = Evaporative emission control
 regeneration valve

Y9 = Camshaft actuator

Y11 = Reverse / park inhibit switch
 (automatic transmission)

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
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Sistema Gerenciamento de motor / Motronic ME 2.1



ELECTRICAL TERMINAL DIAGRAM

A23 = Antilock braking system (ABS),
 Traction control system (ASR),
 Electronic traction control
 system

B1 = Lambda sensor before catalytic
 converter

B5 = Camshaft position sensor

F1 = Fuse no. 1, 7.5A *

F2 = Fuse no. 2, 10A *

F3 = Fuse no. 3, 10A *

F4 = Fuse no. 4, 15A *

F5 = Fuse no. 5, 20A *

K1 = Main relay

S1 = Brake light switch

S2 = Vehicle speed controller switch

* in fuse and relay module

X11A/B = Engine management control unit
 plug

X34B = Transmission control unit plug

X61 = Fuse and relay module plug

X91 = Diagnostic test connection

Y5 = Evaporative emission control
 regeneration valve

Y9 = Camshaft actuator

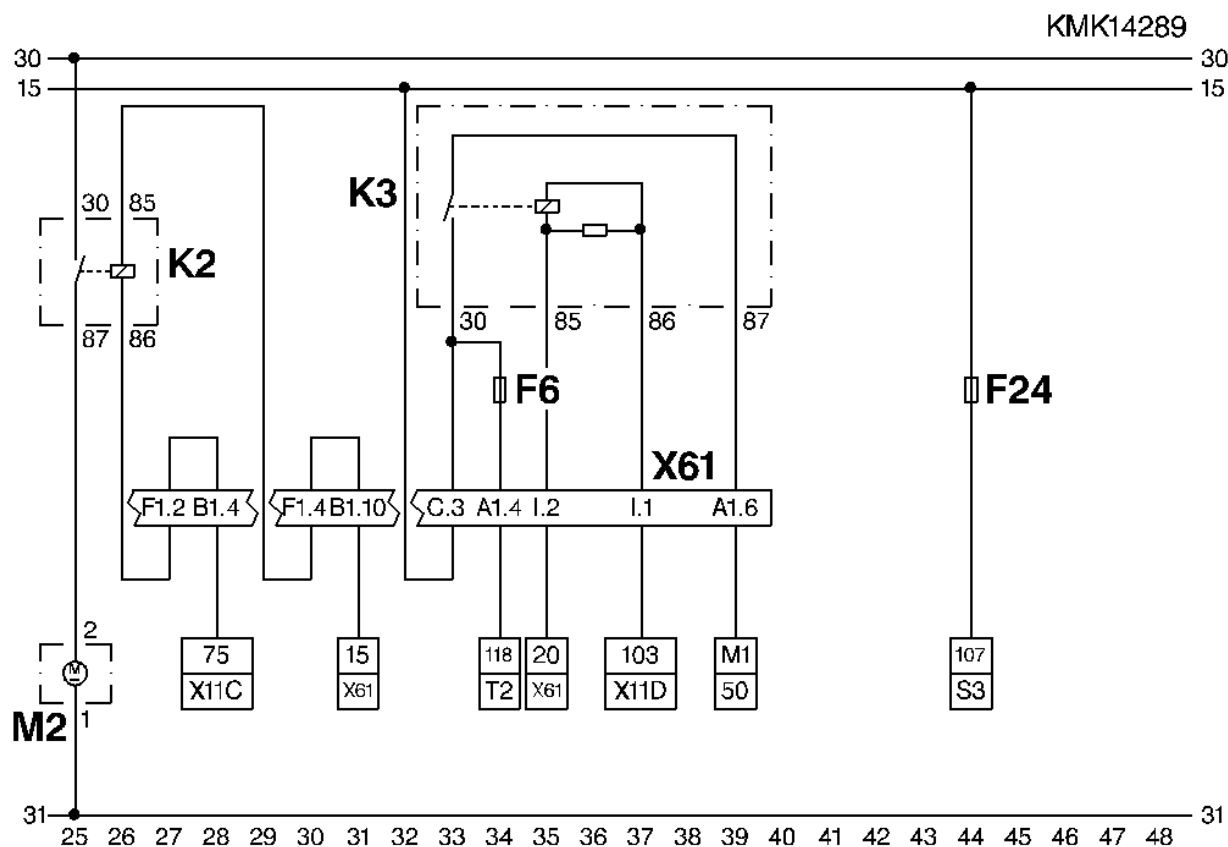
Y11 = Reverse / park inhibit switch
 (automatic transmission)

Veículo
País de fabricação
Cilindrada/Potência
Identificação do motor

MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
D
1.8 / 90 kW
M 111.921

Sistema

Gerenciamento de motor / Motronic ME 2.1



ELECTRICAL TERMINAL DIAGRAM

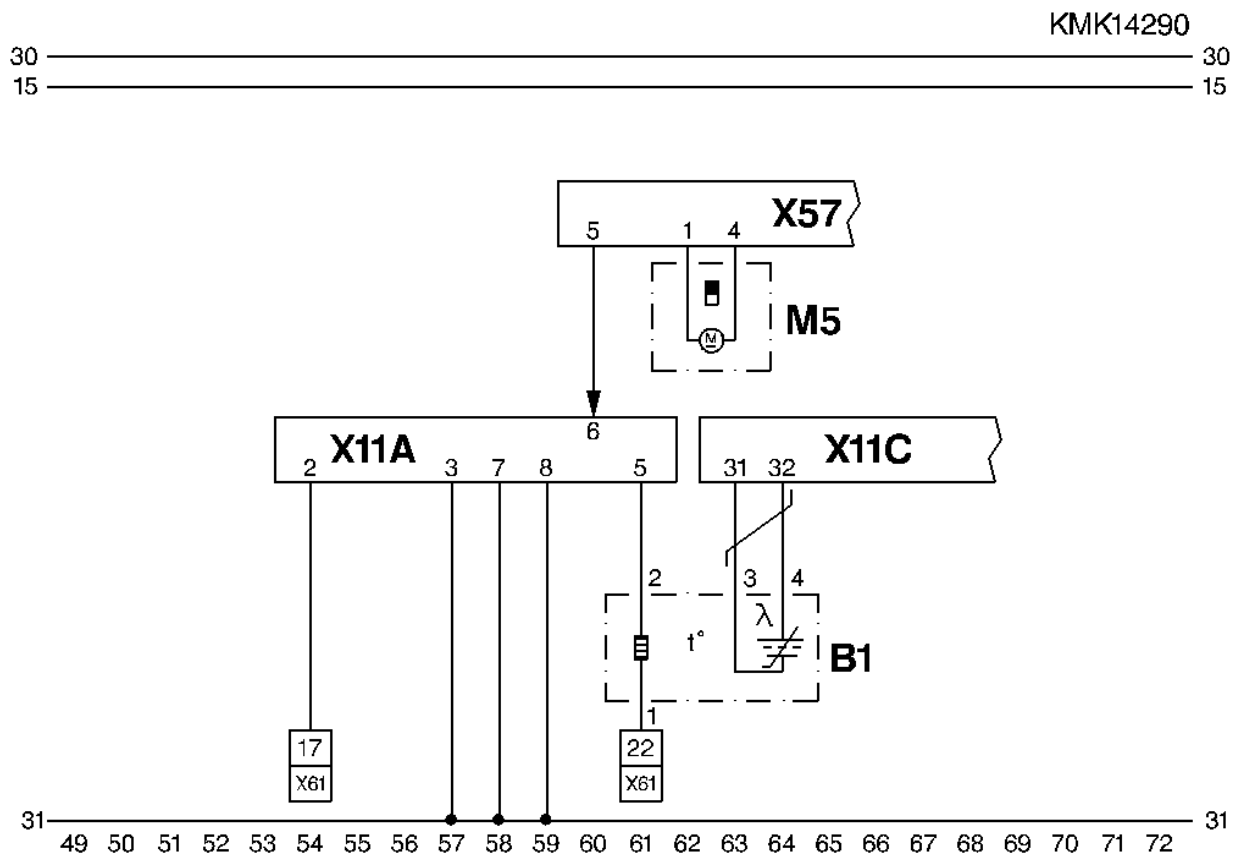
F6 = Fuse no. 6, 15A *
F24 = Fuse no. 24, 15A +
K2 = Electric fuel pump relay
K3 = Starter relay
M1 = Starter motor
M2 = Electric fuel pump
S3 = Reversing lights switch

T2 = Ignition coil 2
X11C/D = Engine management control
unit plug
X61 = Fuse and relay module plug

* = in fuse and relay module
+ = in fuse and relay box

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 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1



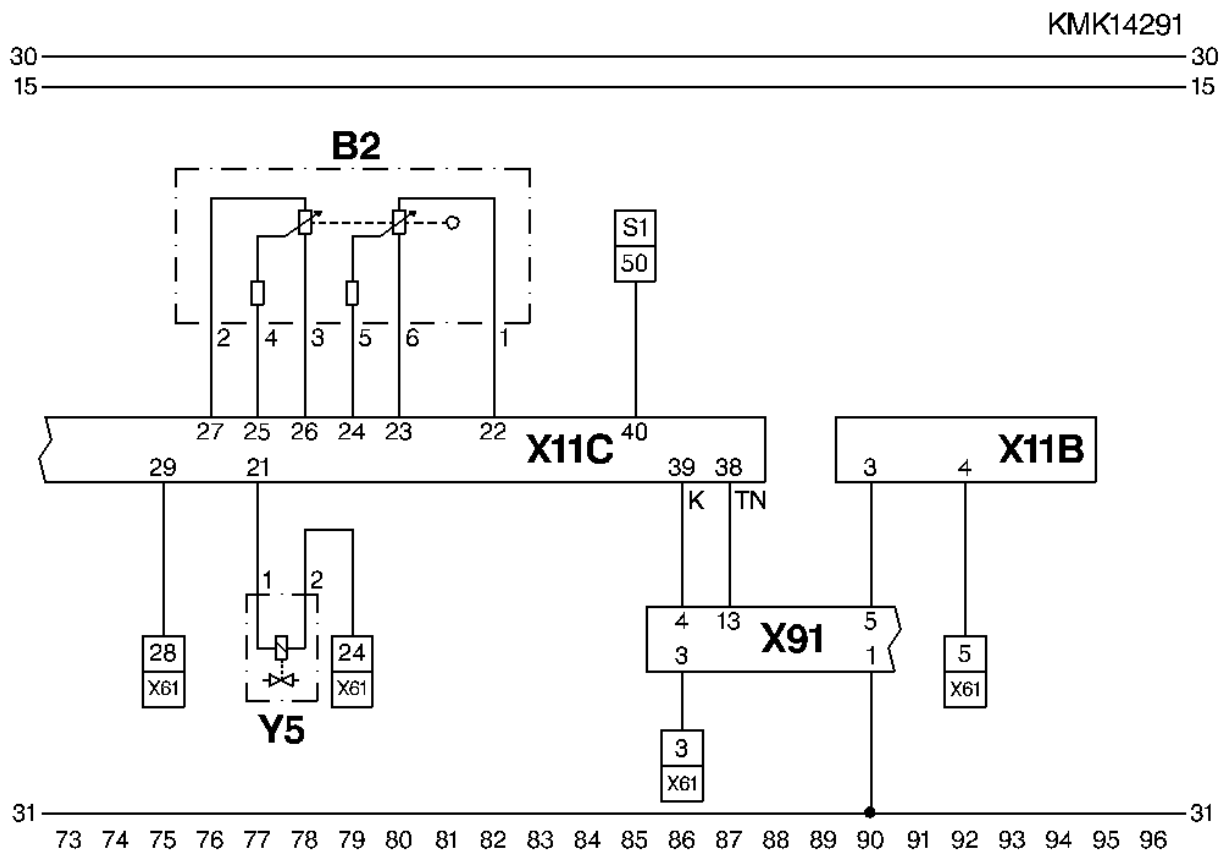
ELECTRICAL TERMINAL DIAGRAM

B1 = Lambda sensor before catalytic converter
 M5 = Electric intake air blower motor / air conditioning
 X11A/C = Engine management control unit

plug
 X57 = Air intake fan control unit plug
 X61 = Fuse and relay module plug

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
 Cilindrada/Potência 1.8 / 90 kW
 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1

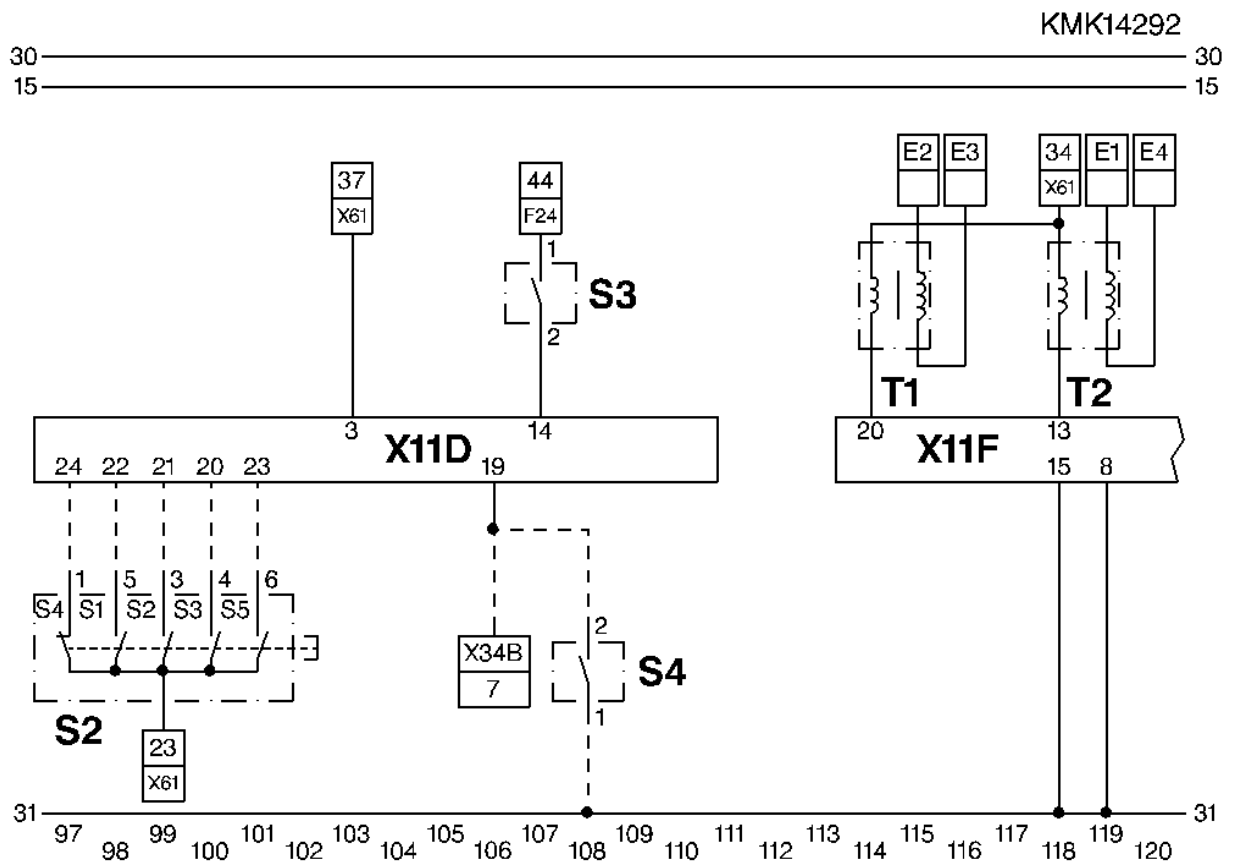


ELECTRICAL TERMINAL DIAGRAM

B2 = Pedal position sensor	plug
K = Diagnostic K-cable	X61 = Fuse and relay module plug
S1 = Ignition switch	X91 = Diagnostic test connection
TN = Engine speed signal	Y5 = Evaporative emission control regeneration valve
X11B/C = Engine management control unit	

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Sistema Gerenciamento de motor / Motronic ME 2.1



ELECTRICAL TERMINAL DIAGRAM

E1...E4 = Spark plugs cylinders 1...4

F24 = Fuse no. 24, 15A *

S2 = Vehicle speed controller switch

S3 = Reversing light switch for manual transmission
Gear selection recognition switch for automatic transmission

S4 = Clutch switch

T1 = Ignition coil 1,

ignition circuit 2/3

T2 = Ignition coil 2,
ignition circuit 1/4

* = in fuse and relay box

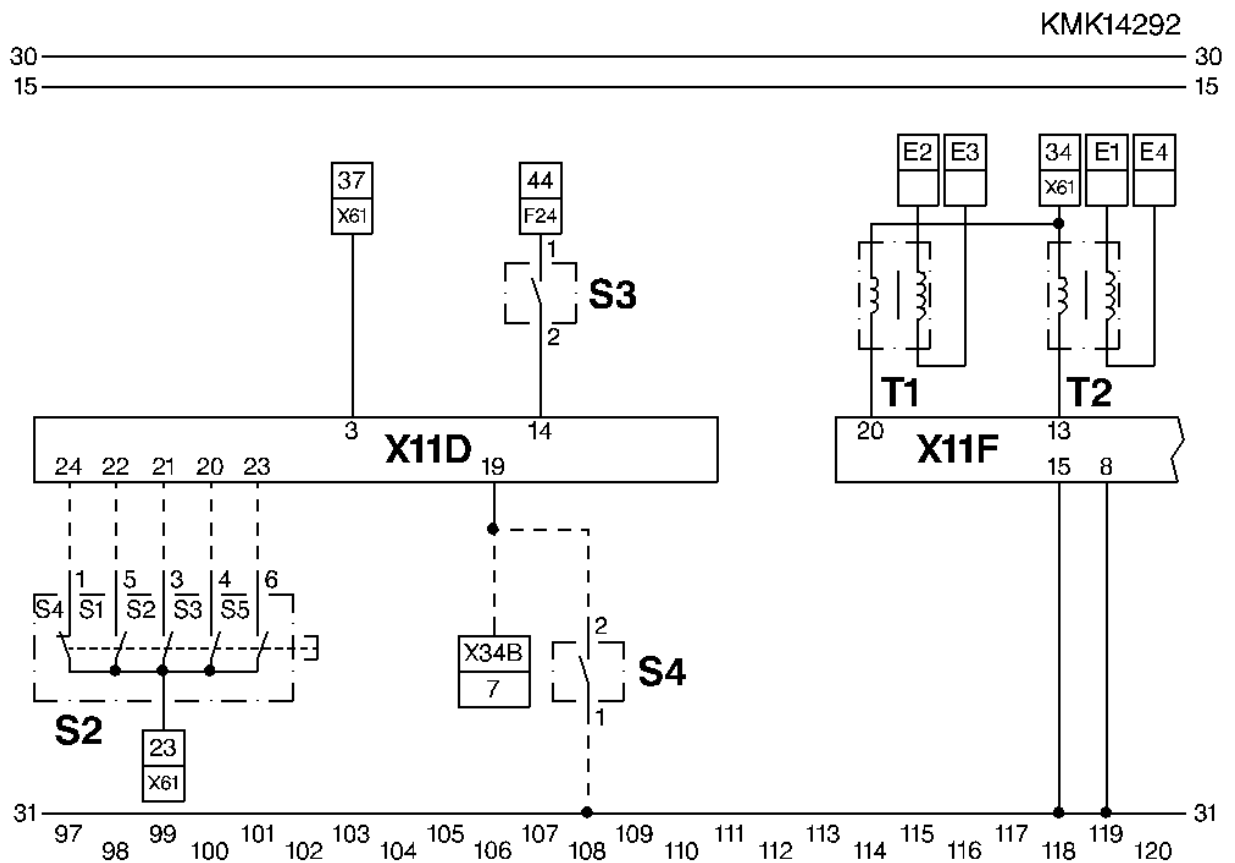
X11D/F = Engine management control unit plug

X34B = Transmission control unit plug

X61 = Fuse and relay module plug

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
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Sistema Gerenciamento de motor / Motronic ME 2.1



ELECTRICAL TERMINAL DIAGRAM

E1...E4 = Spark plugs cylinders 1...4

F24 = Fuse no. 24, 15A *

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Gear selection recognition switch for automatic transmission

S4 = Clutch switch

T1 = Ignition coil 1,

ignition circuit 2/3

T2 = Ignition coil 2,
ignition circuit 1/4

* = in fuse and relay box

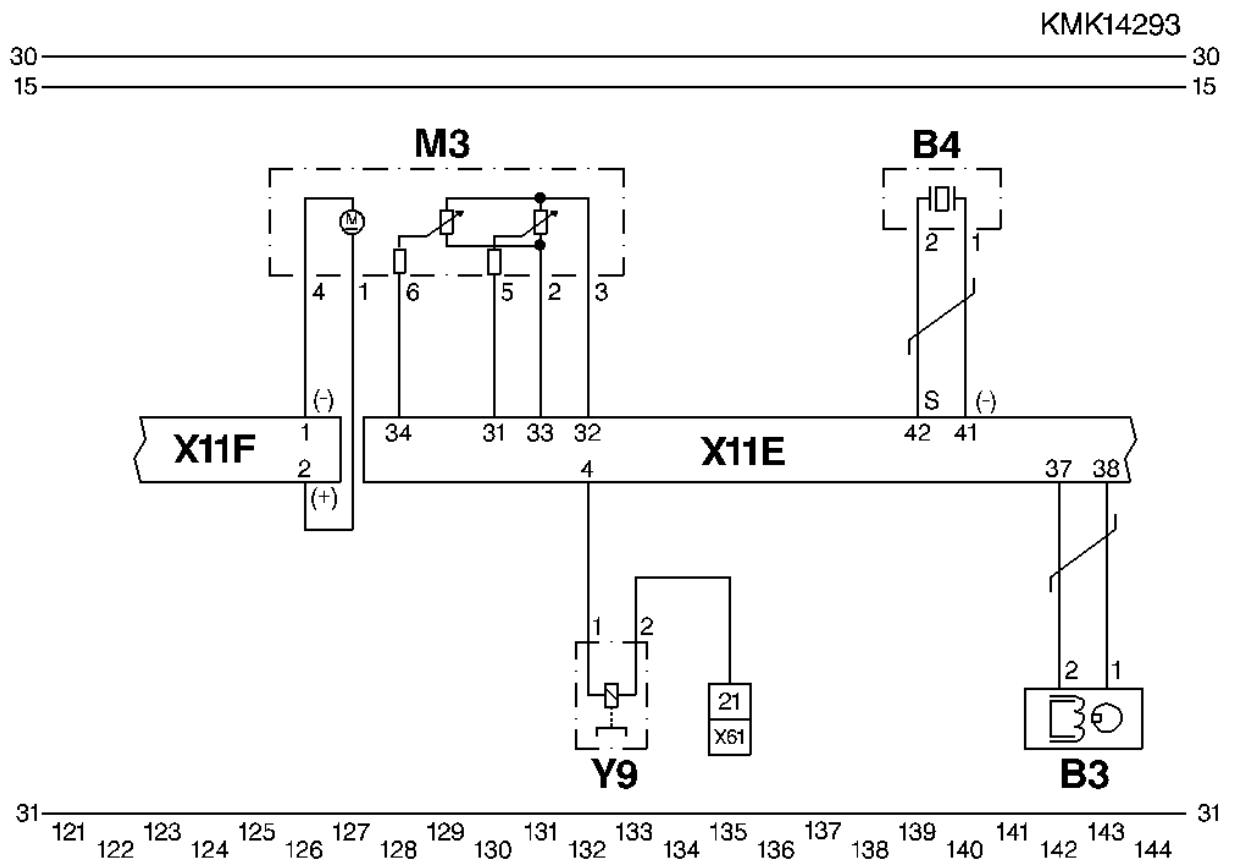
X11D/F = Engine management control unit plug

X34B = Transmission control unit plug

X61 = Fuse and relay module plug

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 País de fabricação D
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 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1



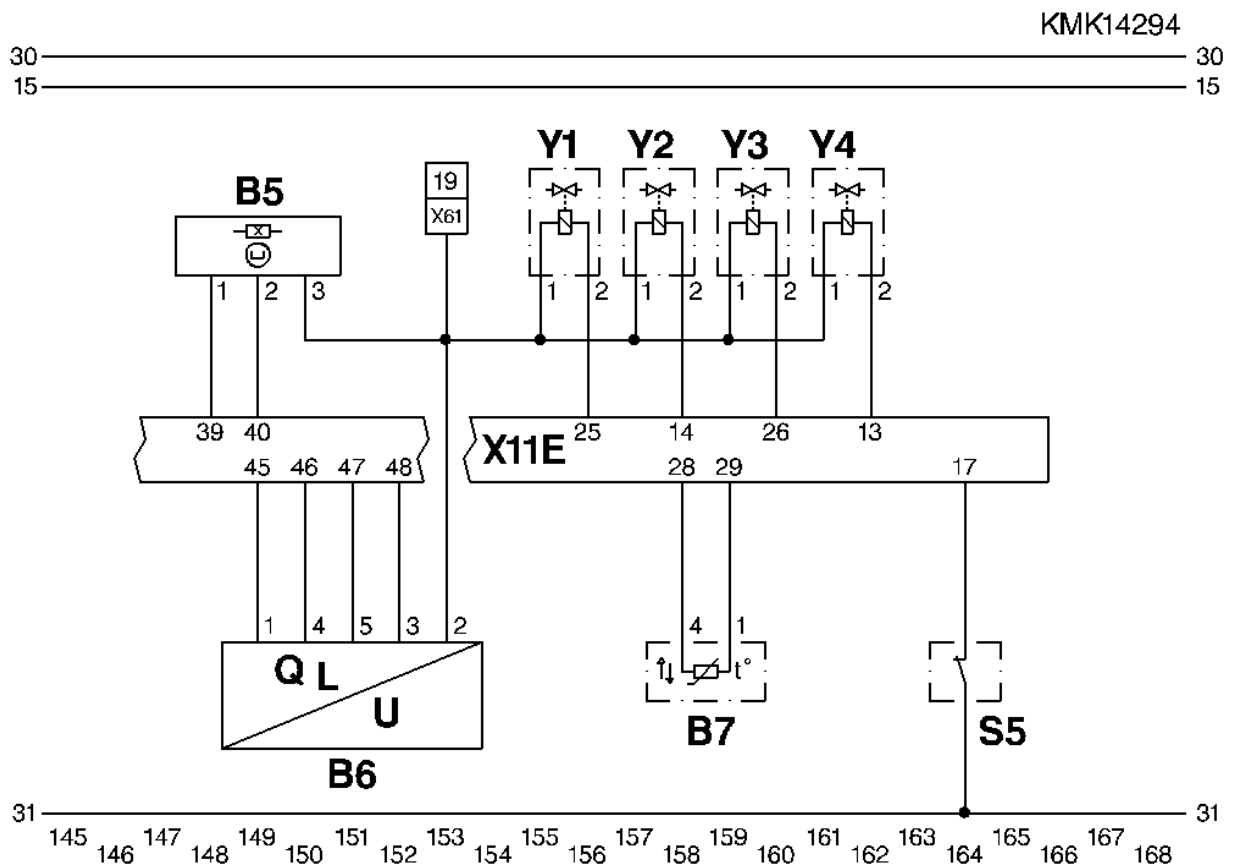
ELECTRICAL TERMINAL DIAGRAM

B3 = Crankshaft position sensor
 B4 = Knock sensor
 M3 = Throttle valve actuator
 X11E/F = Engine management control unit

plug
 X61 = Fuse and relay module plug
 Y9 = Camshaft actuator

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
 País de fabricação D
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Sistema Gerenciamento de motor / Motronic ME 2.1



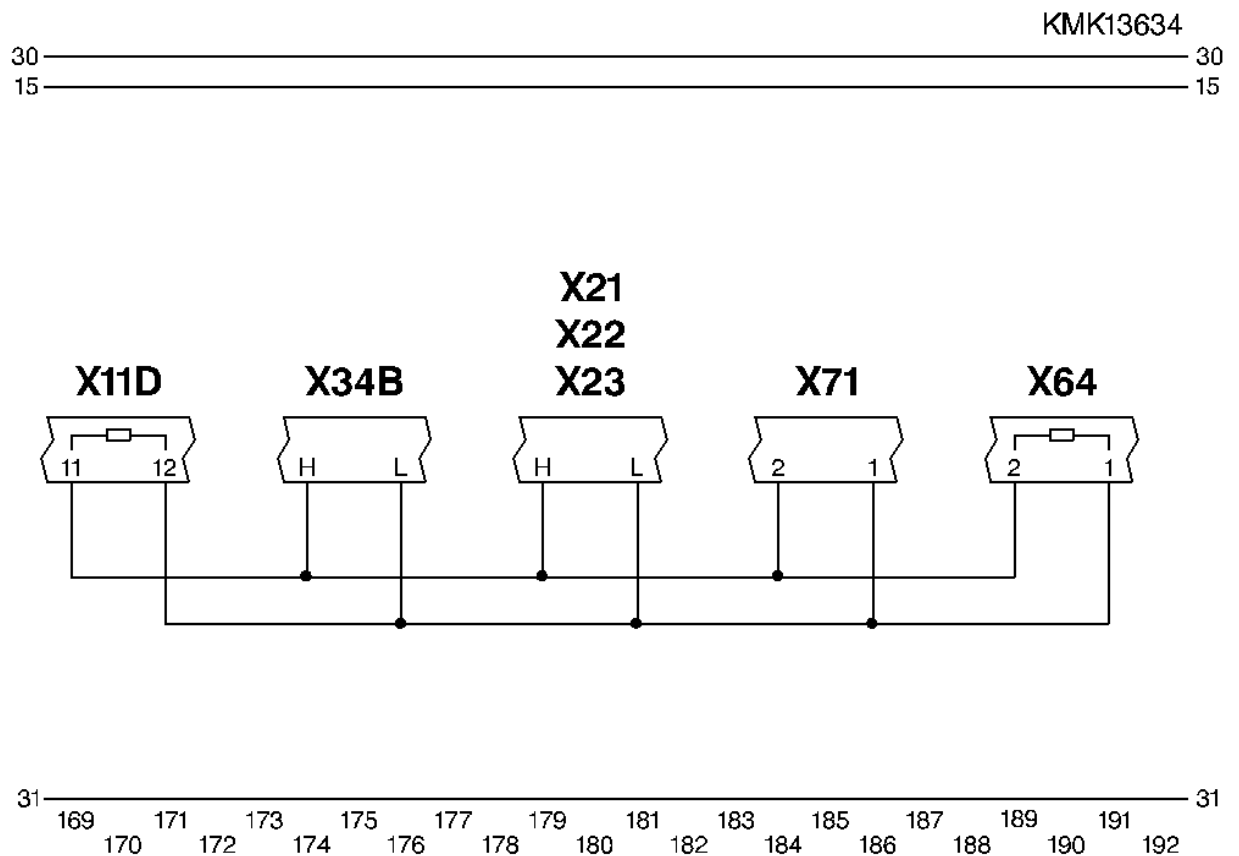
ELECTRICAL TERMINAL DIAGRAM

B5 = Camshaft position sensor
 B6 = Hot film air mass flow meter
 B7 = Engine temperature sensor
 S5 = Oil level switch
 X11E = Engine management control unit

plug
 X61 = Fuse and relay module plug
 Y1-Y4 = Solenoid-operated fuel injectors cylinders 1-4

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 Identificação do motor M 111.921

Sistema Gerenciamento de motor / Motronic ME 2.1



ELECTRICAL TERMINAL DIAGRAM

CAN data bus

X11D = Engine management control unit plug

X21 = ABS control unit plug (Antilock braking system)

X23 = ASR control unit plug (Traction control system)

X23 = ETS control unit plug (Electronic Traction control system)

X34B = Transmission control unit plug

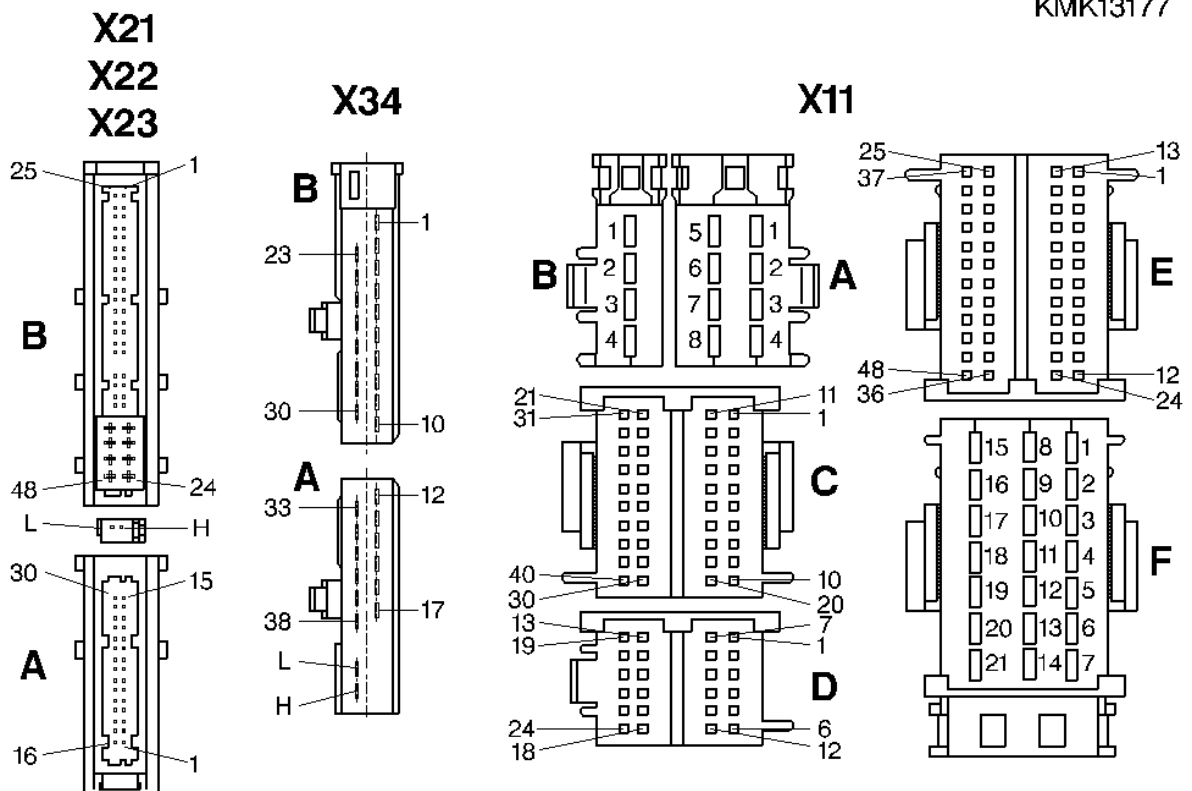
X64 = Infra-red central locking control unit plug

X71 = Multi-function instrument

Veículo MERCEDES-BENZ / C 180 / 09/1995 - 04/2000 / Limusine três volumes
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Sistema Gerenciamento de motor / Motronic ME 2.1

KMK13177



ELECTRICAL TERMINAL DIAGRAM

X11 = Control-unit plug A-F, Motronic
 X21 = Control-unit plug A-B, ABS
 (anti-lock braking system)
 X22 = Control-unit plug A-B, ABS/ETS
 (anti-lock braking system/
 electronic traction system)

X23 = Control-unit plug A-B, ABS/TCS
 (anti-lock braking system/
 traction control system)
 X34 = Control-unit plug A-B, automatic
 transmission