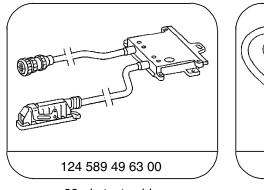
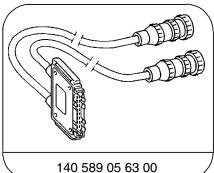
- 1. Ignition: **OFF**.
- 2. Connect socket box according to connection diagram (Figure 1 to 3).

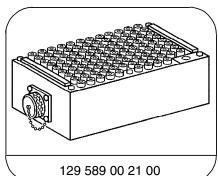
#### **Electrical wiring diagrams:**

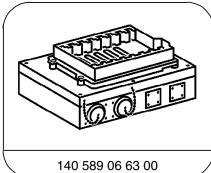
Electrical Troubleshooting Manual, Model 124 Electrical Troubleshooting Manual, Model 129 Electrical Troubleshooting Manual, Model 140 Electrical Troubleshooting Manual, Model 202 Electrical Troubleshooting Manual, Model 210

## **Special Tools**





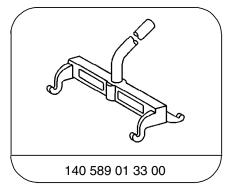


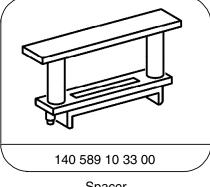


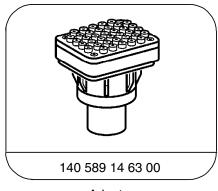
38-pin test cable

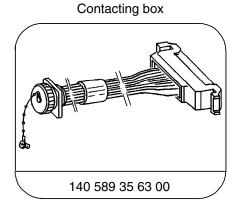
Contacting module 5

126-pin socket box









Mounting lever

Spacer

Adapter

Retrofitting kit for contacting box

## Conventional tools, test equipment

Description	Brand, model, etc.
Multimeter 1)	Fluke models 23, 83, 85, 87
Signal generator 1) 2)	Sun DTR 8416

Available through the MBUSA Standard Equipment Program.

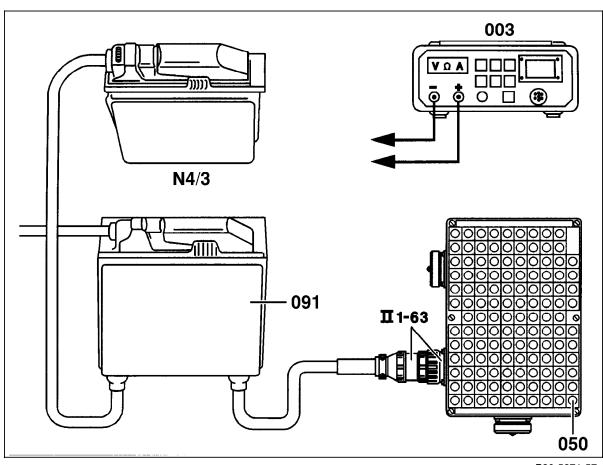
Two signal generators are required for testing the potentiometer and cruise control.

## **Electrical Test Program – Component Locations**

Connection Diagram – Socket Box Models 124, 202, 210



003 Digital multimeter
050 Socket box, 126-pole
091 Diagnostic test cable
N4/3 CC/ISC control module



P30-5271-57

# **Electrical Test Program – Component Locations**

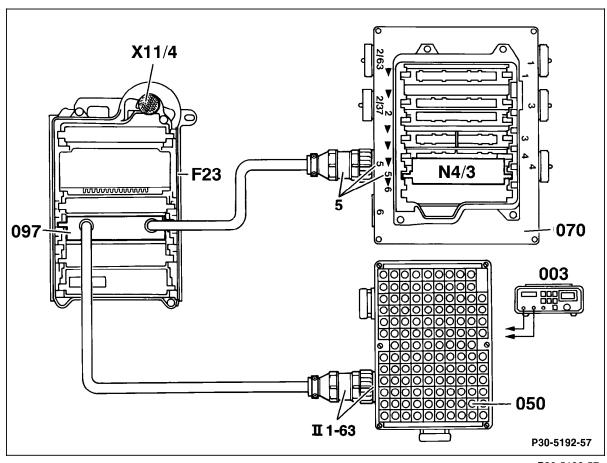
Connection Diagram – Socket Box Model 129

## Figure 2

003 Digital multimeter
050 Socket box, 126-pole
070 Contact box
097 Contact module 5
F23 Module box

N4/3 CC/ISC control module

X11/4 Data link connector (DTC readout)



P30-5192-57

## **Electrical Test Program – Component Locations**

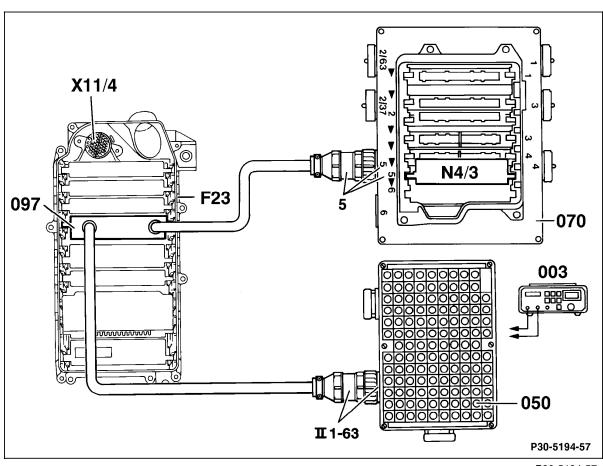
Connection Diagram – Socket Box Model 140

#### Figure 3

003 Digital multimeter
050 Socket box, 126-pole
070 Contact box
097 Contact module 5
F23 Module box

N4/3 CC/ISC control module

X11/4 Data link connector (DTC readout)

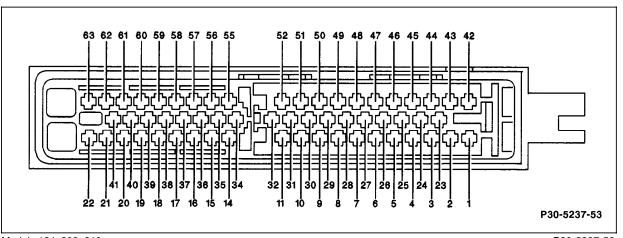


P30-5194-57

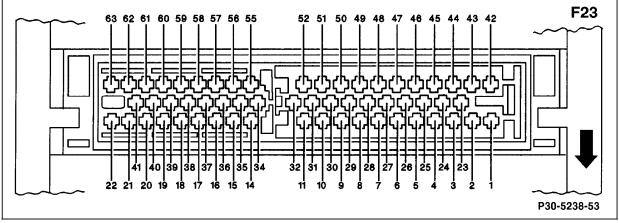
#### **Layout of CC/ISC Control Module Connector**

Figures 4 and 5 Data link connector Model 124: socket 14 All other models: socket 7 2 3-4 Ground Model 124: W1 Models 129, 140: W15 Model 202: W16/4 Model 210: W15/1 Left front axle VSS (from ABS control module) 5 6 ETS signal (from ETS/SPS control module) 7 Models 124, 202, 210: Engine control module Models 129, 140: Base module 8 9 Rear axle VSS (from ABS control module) 10 11 CC switch, safety switch 12-14 CC/ISC actuator, motor (-) 15-16 17-18 CC/ISC actuator, motor (+) 19 20 CC/ISC actuator, safety and CTP switch (+) 21-22 23 Stop lamp switch 24 Stop lamp switch 25 CTP recognition (for Engine control module) 26 Ground via circuit 50 (selector lever position recognition P/N) 27 A/C compressor ON/OFF signal

28-32



Models 124, 202, 210 P30-5237-53



Models 129, 140 P30-5238-53

#### **Layout of CC/ISC Control Module Connector**

Figures 6 and 7 34 CC/ISC

34 CC/ISC actuator, magnetic clutch (+)

35–36 –

37 CC/ISC actuator, CTP recognition switch (–)

38–39

40 CC/ISC, throttle valve and drive actual value

potentiometer (+)

41 CC/ISC, throttle valve and drive actual value

potentiometer (-)

42-43

44 H data line (CAN)45 L data line (CAN)

45 L data line (CAN 46 –

47 CC switch, resume 48 CC switch, off

49 CC switch, accelerate/set

50 CC switch, decelerate/set

51–52 CC/ISC control module voltage supply, unfused

Models 124, 202: Overvoltage protection

relay module (K1/2)

Models 129, 140: Base module (N16/1)

Model 210: Relay module (K40)

53-55

56 CC/ISC actuator, magnetic clutch (-)

57–58 –

59 CC/ISC actuator, safety contact switch (-)

60

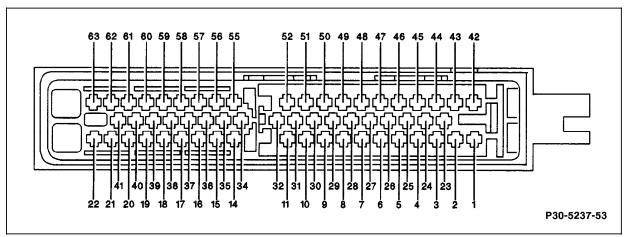
61 CC/ISC actuator, drvie value potentiometer

(actual value)

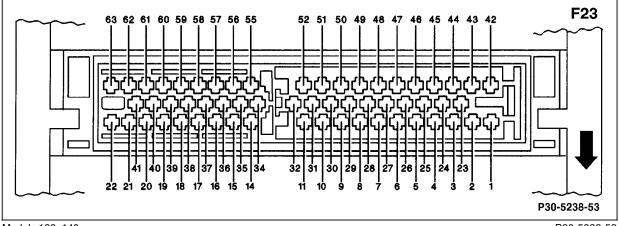
62 -

63 CC/ISC actuator, throttle valve actual value

potentiometer



Models 124, 202, 210 P30-5237-53



Models 129, 140 P30-5238-53