

Electrical Test Program - Cruise Control Preparation for Test

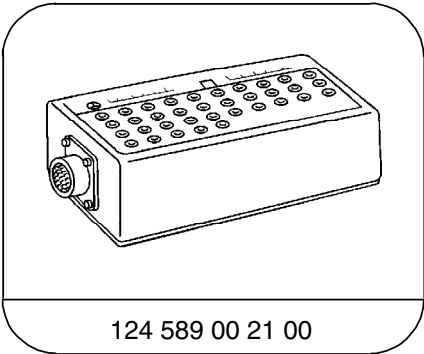
Preliminary work: Linkage adjustment ..... SMS, Group, Job No. 30-300

Cruise Control Preparation for Test

- Battery voltage: minimum 11 V

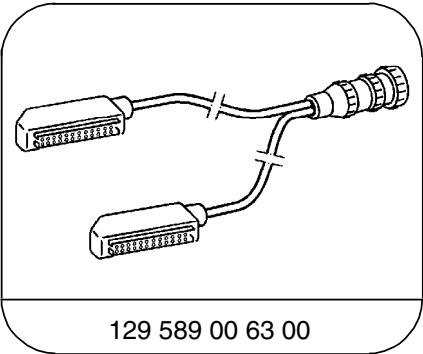
Electrical wiring diagrams, see Electrical Troubleshooting Manual.

Special Tools



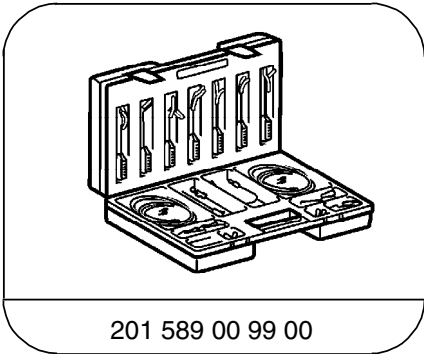
124 589 00 21 00

35-pin socket box



129 589 00 63 00

35-pin test cable



201 589 00 99 00

Electrical connecting set

Equipment

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| Digital multimeter <sup>1)</sup> | Sun DMM-5<br>Fluke model 23 with 80i-410 current probe |
| Signal generator <sup>1)</sup>   | Sun DTR 8416                                           |

<sup>1)</sup> Available through the MBUSA Standard Equipment Program.

## 6.1 Electronic Accelerator (EA)

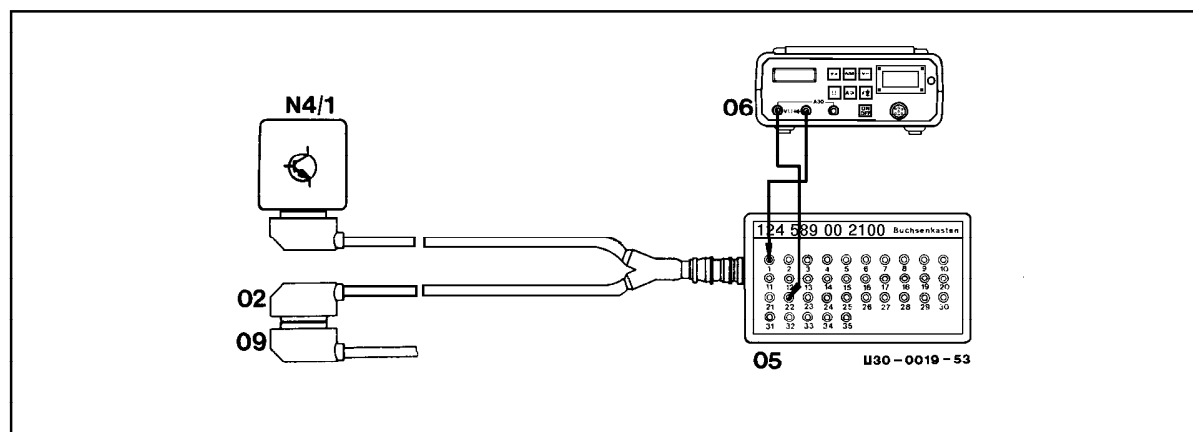
Engines 104, 119 CFI

### Electrical Test Program - Cruise Control Preparation for Test

#### Connection Diagram – Multimeter for Cruise Control Test Program Engines 104, 119

Figure 1

|      |                                               |                  |
|------|-----------------------------------------------|------------------|
| 02   | Test cable                                    | 129 589 00 63 00 |
| 05   | Socket box                                    | 124 589 00 21 00 |
| 06   | Multimeter                                    |                  |
| 09   | Vehicle wiring harness (EA/CC control module) |                  |
| N4/1 | EA/CC control module                          |                  |

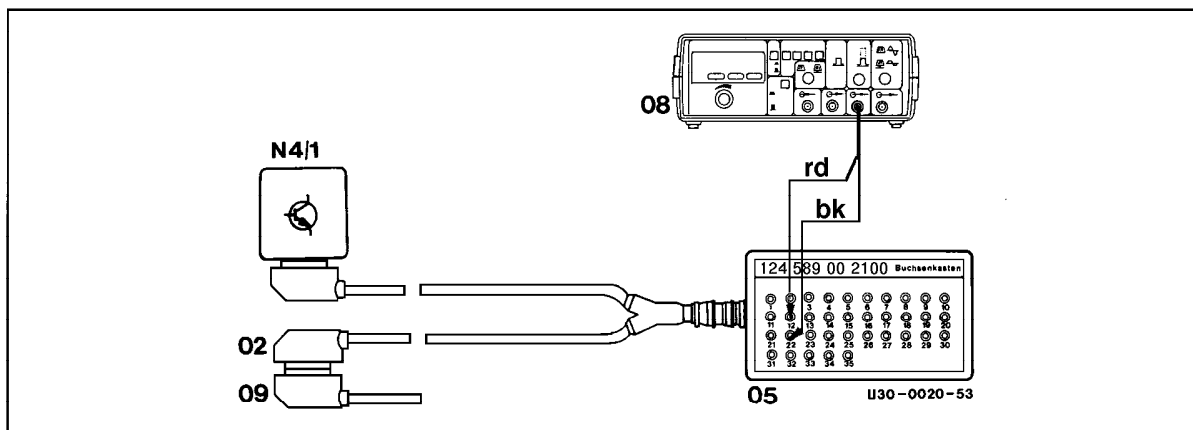


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#### Connection Diagram – Signal Generator for Cruise Control Test Program Engines 104, 119

Figure 2

|      |                                               |                  |
|------|-----------------------------------------------|------------------|
| 02   | Test cable                                    | 129 589 00 63 00 |
| 05   | Socket box                                    | 124 589 00 21 00 |
| 08   | Signal generator                              |                  |
| 09   | Vehicle wiring harness (EA/CC control module) |                  |
| N4/1 | EA/CC control module                          |                  |

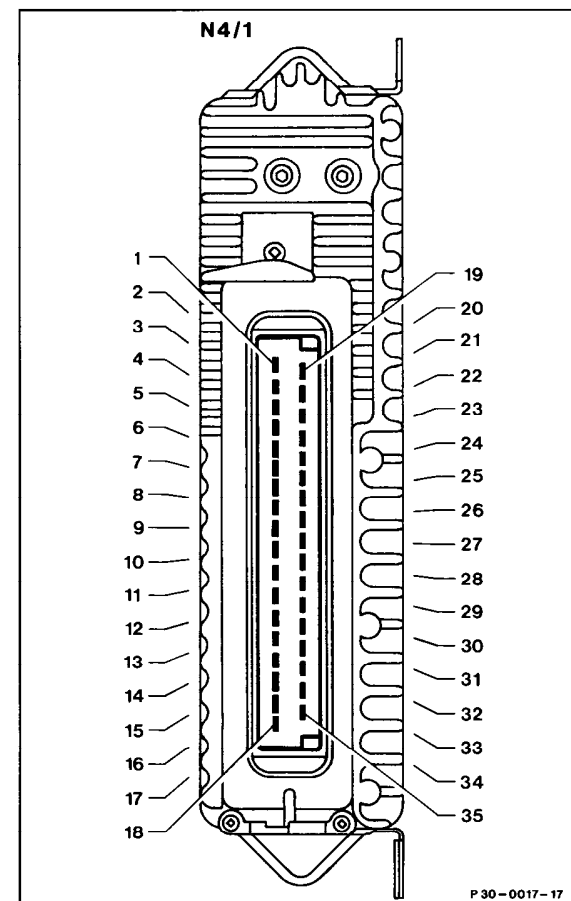


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## Electrical Test Program - Cruise Control Preparation for Test

## Terminal layout of electronic accelerator control module connector

|    |                                                                     |                                                |                                                                     |
|----|---------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|
| 1  | Voltage supply circuit 15 (unfused)                                 | 22                                             | Model 124: Ground, battery (W10)                                    |
| 2  | Voltage supply circuit 15 (unfused)                                 | Model 129: Ground, component compartment (W16) |                                                                     |
| 3  | EA/CC actuator (engine)                                             | 23                                             | Model 124: Ground, battery (W10)                                    |
| 4  | EA/CC actuator (engine)                                             | Model 129: Ground, component compartment (W16) |                                                                     |
| 5  | Accelerator pedal position sensor, potentiometer (ground)           | 24                                             | Not used                                                            |
| 6  | EA/CC actuator, feedback potentiometer (ground)                     | 25                                             | Not used                                                            |
| 7  | Not used                                                            | 26                                             | EA/CC actuator, feedback potentiometer (voltage supply)             |
| 8  | Engine 104: Idle speed signal to CFI (CIS-E) control module         | 27                                             | Not used                                                            |
|    | Engine 119: Not used                                                | 28                                             | EA/CC actuator, potentiometer                                       |
| 9  | Accelerator pedal position sensor, potentiometer voltage supply (+) | 29                                             | EA/CC actuator, safety switch                                       |
| 10 | Not used                                                            | 30                                             | Engine systems control module (MAS), circuit 15, socket 10          |
| 11 | Model 124: Ground, battery (W10)                                    | 31                                             | To ABS/ASR control module (throttle valve-actual voltage signal)    |
|    | Model 129.066: Ground, component compartment (W16)                  | 32                                             | Cruise control switch (ACCEL. SET)                                  |
| 12 | Electronic speedometer, speed signal                                | 33                                             | Starter lock-out/backup lamp switch position "R"                    |
| 13 | Accelerator pedal position sensor, safety switch                    | 34                                             | From ABS/ASR control module (throttle valve-nominal voltage signal) |
| 14 | Brake lamp switch                                                   | 35                                             | Cruise control switch (OFF)                                         |
| 15 | Accelerator pedal position sensor, potentiometer return signal      |                                                |                                                                     |
| 16 | Cruise control switch (DECEL. SET)                                  |                                                |                                                                     |
| 17 | Not used                                                            |                                                |                                                                     |
| 18 | Cruise control switch (RESUME)                                      |                                                |                                                                     |
| 19 | Not used                                                            |                                                |                                                                     |
| 20 | EA/CC actuator (engine)                                             |                                                |                                                                     |
| 21 | EA/CC actuator (engine)                                             |                                                |                                                                     |



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