

Wiring diagrams

● The wiring diagrams are assigned to the familiar function groups 00-91. The systems are listed alphabetically with an indication of the function group/ function subgroup in the "Search aid for all wiring diagram groups"

OV00.01-P-1901S or A3 (hard copy) the systems are listed alphabetically with specification of function group/ function subgroup.

● The wiring diagrams are filed in the respective function group arranged according to the PE number,

e.g.: PE07.16-P-2101FA
PE07.61-P-2101FC
PE07.61-P-2101SD

To file supplements and to check that the volume is complete, refer to the tables of contents of the respective function group for the order in which the wiring diagrams are filed. In the case of supplements, the wiring diagrams must be filed as per the supplement sheet,

e.g.: PE07.00-P-1100FA Overview of wiring diagrams....

● The versions identified with the abbreviated designation "U..." are listed in the legends. Explanations regarding identifications of versions with abbreviations such as ESP, can be found in "Abbreviations for workshop literature" OV00.01-P-1001-27A *(A4). The signal and circuit designations used are explained in "Abbreviations of signal and circuit designations for wiring diagrams" OV00.01-P-1001-28FA *(A5).

Wiring diagram number

- a Information type
- b Function group
- c Function subgroup
- d Producer ID
- e Sequence number
- f Information unit number
- g Validity letter (s)

System block diagram

- a Input signal from component B34 into control unit N47-5
- b Output signal from control unit N47-5 into component A7/3
- c Bidirectional signal

Function schematic

- a Data bus interface
- b Direct interface
- c Symbols (components, control units)
- d Reference to further wiring diagrams

● The wiring diagrams are generated as system block diagrams, function schematics or control unit diagrams and are structured as follows:

-System block diagrams

All the control units belonging to the system (e.g. ESP), are represented as a block. Components and signals which act on the control units either for system-related or function-related reasons, are shown with direction arrows.

-Function schematics

The control units and electrical components required for the function are shown as symbols. The functional connections are realized by direct lines or by the data bus.

-Control unit diagrams

Control units are represented complete with all connected components. The feed of the control units appears first.

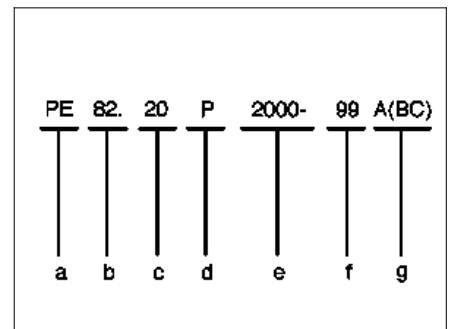
The wiring diagrams also contain linkages of possible versions and functions.

Linkages, recognizable as versions, are framed and provided with an abbreviated designation/ abbreviation.

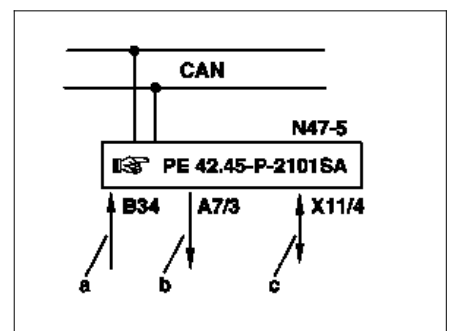
The versions are designated with 1 and 2

● The vehicle ident. end numbers or production breakpoint dates stated apply to the introduction of the main series. Pre-series vehicles may have a lower vehicle ident end number or an earlier start of production.

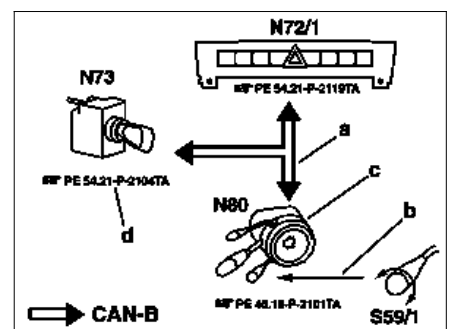
● Wire cross-sections may differ from that shown in the wiring diagrams.



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P00.19-2070-01

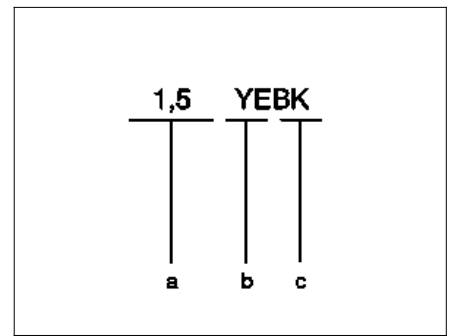


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Wire identification

- a Conductor cross-section in mm²
- b Basic color
- c Identification color

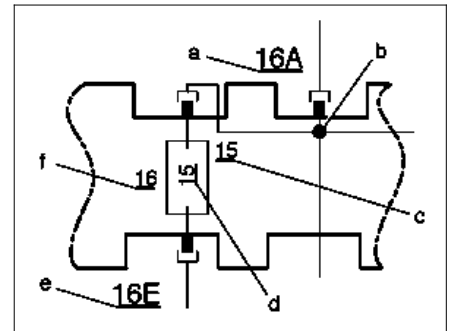
i The slash is deleted between base color and identifying color.



P00.19-2306-01

Fuse blocks

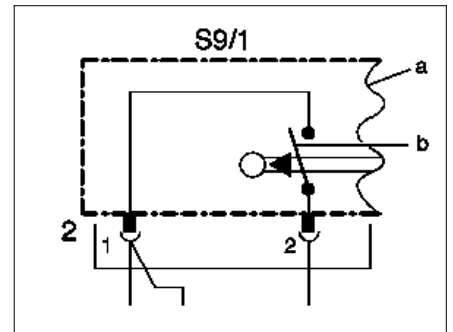
- a Receptacle numbering, output (A, B, C or D)
- b Line bridge
- c Terminal designation
- d Fuse rating in amp(s)
- e Receptacle numbering, input (E)
- f Fuse number



P00.19-0405-01

Components and switches

- a Component which are not represented completely are shown dismantled.
- b Switching contacts are shown in the rest position.



P00.19-0406-01

Wire colors:

BK = black	= black
BN = Brown	= brown
BU = blue	= blue
GN = green	= green
GY = gray	= gray
PK = pink	= pink
RD = red	= red
TR = TRANSPARENT	= transparent
VT = violet	= violet
WH = white	= white
YE = yellow	= yellow

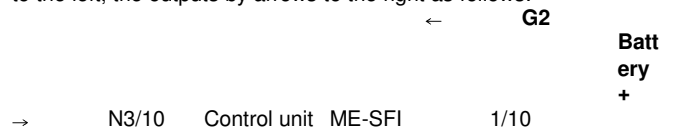
● Special features in WIS presentation

In contrast to the presentation on paper, it is possible in the WIS to select certain areas (framed in red) and thus to jump to other documents or wiring diagrams.

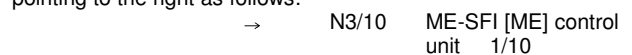
- Selection of connectors → Document: Location and assignment of connectors
- Selection of ground points → Document: Location and assignment of ground points
- Selection of Z connector sleeves → Document: Location and assignment of Z connector sleeves
- Selection of wiring diagram hands → Reference to further wiring diagrams
- Selection of Component designations → document: Abbreviations of signal and terminal designations
- Selection of → document:

The **PE** symbol refers to further wiring diagrams or block diagrams or function diagrams.

- The feed-in of the Z connector sleeves is indicated by an arrow to the left, the outputs by arrows to the right as follows:



- The assignment of the ground points is illustrated using an arrow pointing to the right as follows:

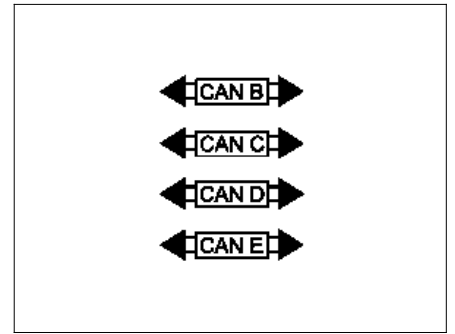


- The assignment of connectors is shown as follows by the cable color at the pin and socket:

WHBK — 1 — WHBK

CAN bus presentation

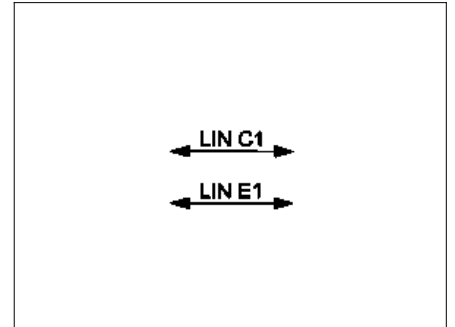
- CAN B Interior CAN
- CAN C Drive train CAN
- CAN-D Diagnostic CAN
- CAN E Chassis CAN



P00.01-3566-01

LIN bus presentation

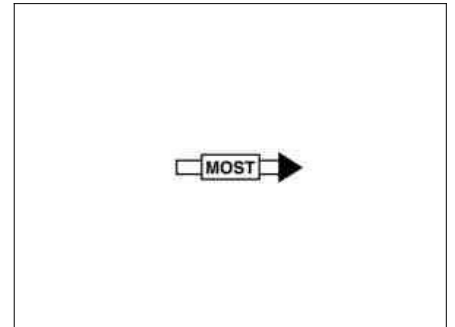
- LIN C1 Drive train LIN
- LIN E1 Steering LIN



P00.01-3567-01

MOST bus presentation

- MOST Media Oriented System Transport (MOST)



P00.01-3091-01