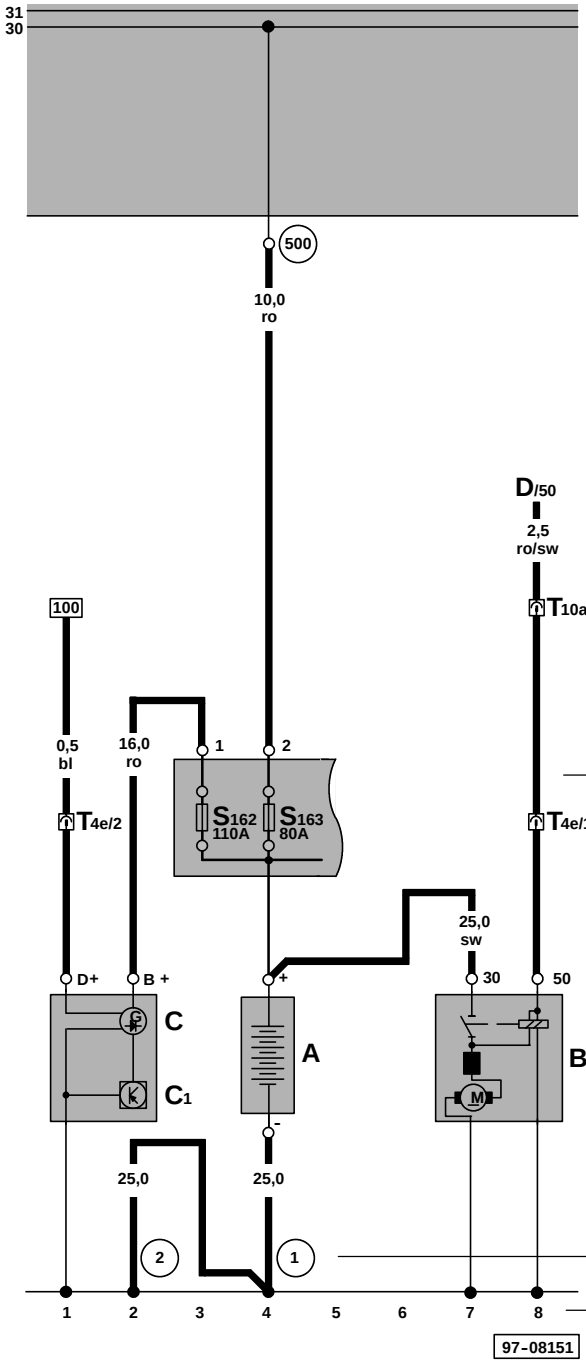


Relay panel
Indicated by grey area.

WIRING COLOR CODE		
ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	lilac
ge	=	yellow

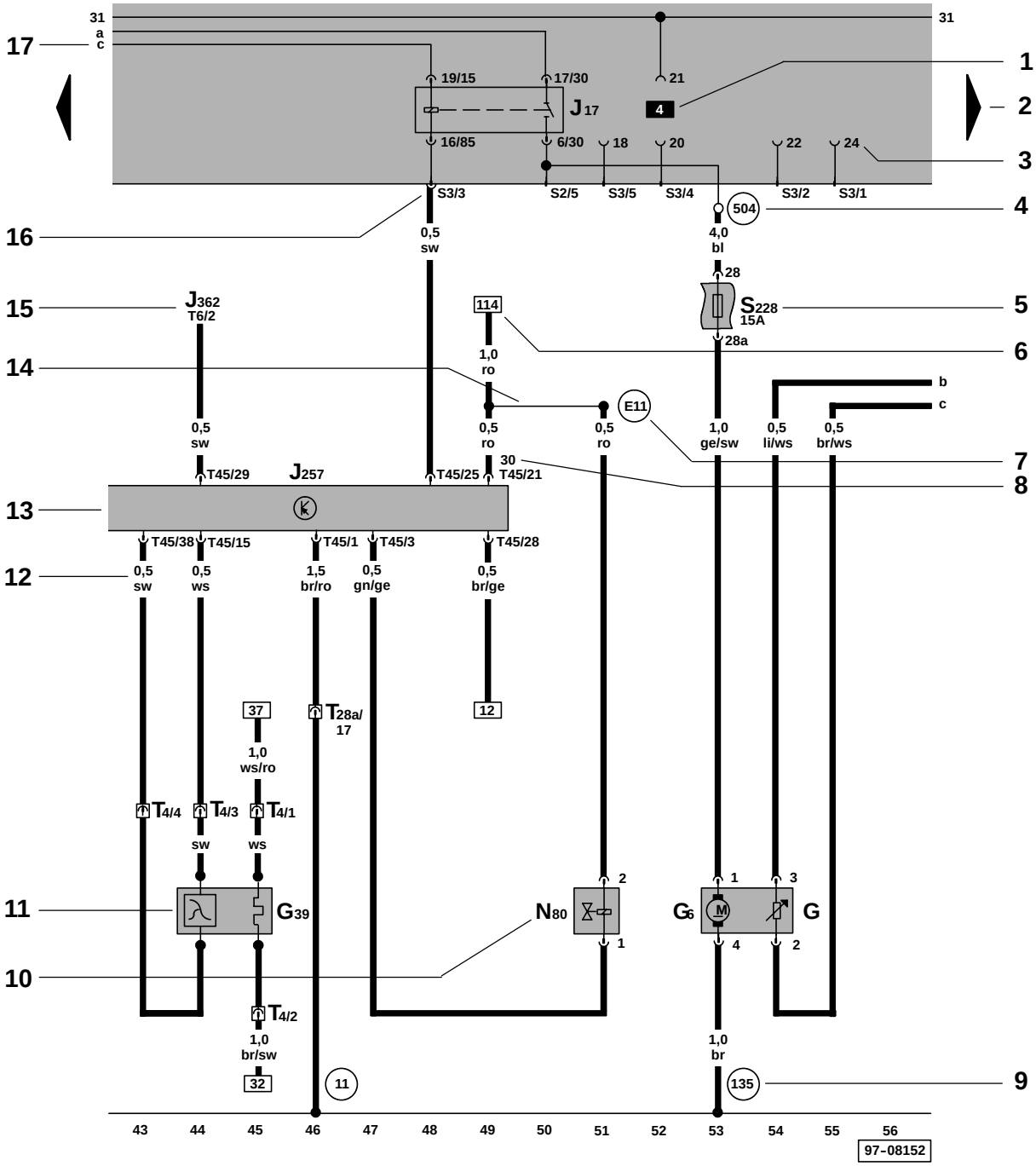
Consumer circuit with wire routing
All switches and contacs are shown in the ”off” position.

Vehicle ground
Numbers in circle indicate location on vehicle (see legend).

Current track number
Makes it easier to find the connections.

A - Battery
B - Starter
C - Generator (GEN)
C1 - Voltage Regulator (VR)
D - Ignition/Starter Switch
S162 - Fuse -1- (30) in fuse bracket / battery
S163 - Fuse -2- (30) in fuse bracket / battery
T4e - 4-Pin Connector, on transmission
T10a - 10-Pin Connector, on protective housing for control module, in engine compartment, left
(1) - Ground strap, battery to body
(2) - Ground strap, transmission to body
(500) - Screw connection -1- (30), on relay panel

Legend
In all wiring diagrams the same component designation (code) is used for a particular component; for example, always A for battery.


31
a
c
17
19/15
17/30
21
J17
4
16/85
6/30
18
20
22
24
S3/3
S2/5
S3/5
S3/4
S3/2
S3/1
504
16
0,5
sw
4,0
bl
28
15
J362
T6/2
114
S228
15A
28a
14
1,0
ro
E11
b
c
0,5
sw
0,5
ro
0,5
ro
1,0
ge/sw
0,5
li/ws
0,5
br/ws
T45/29
J257
T45/25
30
T45/21
13
T45/38
T45/15
T45/1
T45/3
T45/28
12
0,5
sw
0,5
ws
1,5
br/ro
0,5
gn/ge
0,5
br/ge
37
T28a/
17
12
1,0
ws/ro
T4/4
T4/3
T4/1
sw
ws
11
G39
N80
G6
G
2
1
1
3
4
2
10
T4/2
1,0
br/sw
1,0
br
32
11
135
9
43
44
45
46
47
48
49
50
51
52
53
54
55
56
97-08152

1 - Relay location number
Indicates location on relay panel.

2 - Arrow
Indicates wiring circuit is continued on the previous and/or next page.

3 - Connection designation - relay control module on relay panel
Shows the individual terminals in a multi-point connector.
For example: contact 24 on terminal **4** on relay panel.

4 - Diagram of threaded pin on relay panel
White circle shows a detachable connection.

5 - Fuse designation
For example: S228 = Fuse number 28, 15 amps, in fuse holder

6 - Reference of wire continuation (current track number)
Number in frame indicates current track where wire is continued.

7 - Wire connection designation in wiring harness
Location of wire connections are indicated in the legend.

8 - Terminal designation
Designation which appears on actual component and/or terminal number of a multi-point connector.

9 - Ground connection designation in wire harness
Locations of ground connections are indicated in legend.

10 - Component designation
Use legend at bottom of page to identify the component code.

11 - Component symbols (see page IV - VI)

12 - Wire cross-section size (in mm^2) and wire colors
Abbreviations are explaining in color chart beside the wiring diagram.

13 - Component symbol with open drawing side
Indicated component is continued on another wiring diagram. The number of corresponding wiring diagram can taken from list of contents.

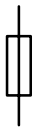
14 - Internal connections (thin lines)
These connections are **not** wires. Internal connections are current carrying and are listed to allow tracing of current flow inside components and wiring harness.

15 - Reference of continuation of wire to component
For example: Control module for anti-theft immobilizer J362 on 6-Pin Connector, terminal 2

16 - Relay panel connectors
Shows wiring of multi-point or single connectors on relay panel
For example: S3/3 - Multi-point connector S3, terminal 3

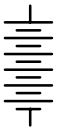
17 - Reference of internal connection continuation
Letters indicate where connection continues on the previous and/or next page.

Symbols used in wiring diagrams

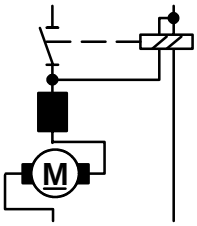


Fuse

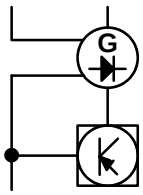
Thermo-fuse
(Circuit Breaker)



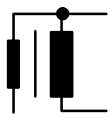
Battery



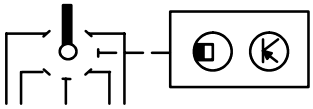
Starter



Generator (GEN)



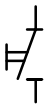
Ignition Coil



Distributor (electronic)

Spark plug connector
and plug

Glow plug
Heater element

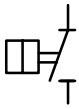


Switch
(manually operated)

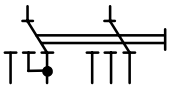
Switch
(thermally operated)

Push putton switch
(manually operated)

Switch
(mechanically operated)

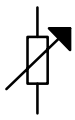


Switch
(pressure operated)

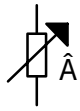


Multiple switch
(manually operated)

Resistance

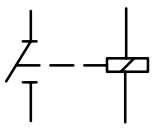


Variable resistor
(Rheostat)



Resistor
temperature dependent

Heater element
temperature dependent



Relay

97-12201

Symbols used in wiring diagrams

Diode

Solenoid valve

Zener diode

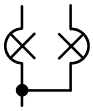
Magnetic clutch

Diode
light sensitiv

Wire connector

Light bulb

Pin connector



Light bulb
(dual filament)

Multi-point connector
at component

LED

Internal connections
in component

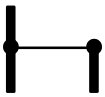
Interior light

Wire connection
detachable

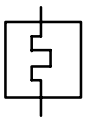
Instrument
(Gauge)

Wire connection
fixed

Electronic control
module



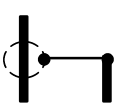
Wire connection in
wiring harness



Rear window defogger
heat element

Resistance wire

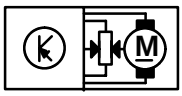
Cigarette lighter



Shield wire

97-08153

Symbols used in wiring diagrams

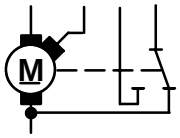


Control motor,
headlight range adjustment

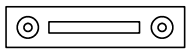
Speeker

Motor

Antenna with electronic
antenna amplifier

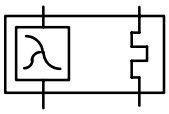


Wiper motor
2-speed

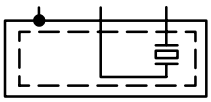


Radio

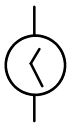
Crankshaft position sensor
(CKP)



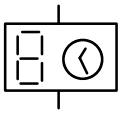
Heated oxygen sensor



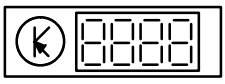
Knock sensor (KS)



Analog clock



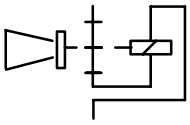
Digital clock



Multi-function
indicator

Airbag spiral spring

Speed sensor

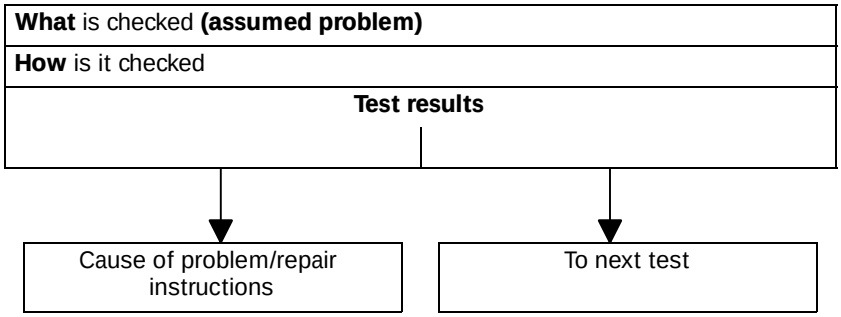


Horn

97-08154

Starting with the reported problem, troubleshooting procedures show step-by-step what is checked and how it is checked in order to find the problem in the quickest and most reliable way. If several causes (of a problem) are possible in one system, a test procedure is used for diagnosis.

Structure of a Test step:



Example of a troubleshooting procedure: