

## Anti-lock brake system (ABS) with electronic differential lock (EDL),

from October 2000

### **Notes:**

*Information for*

- ◆ *Relay and fuse arrangements*
  - ◆ *Connector arrangements*
  - ◆ *Control Modules and Relays*
  - ◆ *Ground connections*
- ⇒ *Component Locations!*

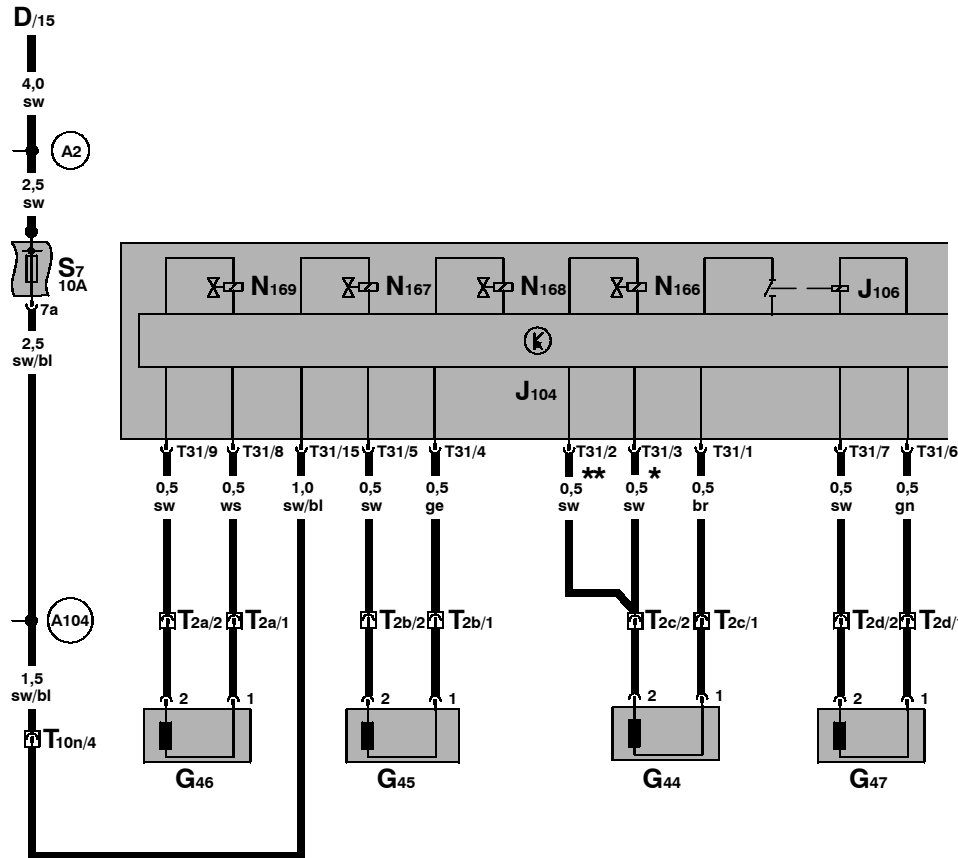
*Information for*

- ◆ *Troubleshooting Procedures*
- ⇒ *Guided Fault Finding using VAS 5051/5052*

ABS Control Module, ABS Wheel Speed Sensors



- D - Ignition/Starter Switch
- G44 - Right Rear ABS Wheel Speed Sensor
- G45 - Right Front ABS Wheel Speed Sensor
- G46 - Left Rear ABS Wheel Speed Sensor
- G47 - Left Front ABS Wheel Speed Sensor
- J104 - ABS Control Module
- J106 - ABS Solenoid Valve Relay
- N166 - Right Front Traction Control Switch-Over Valve
- N167 - Right Front Traction Control Outlet Valve
- N168 - Left Front Traction Control Switch-Over Valve
- N169 - Left Front Traction Control Outlet Valve
- S7 - Fuse
- T2a - Double Connector (under rear seat)
- T2b - Double Connector (in right front wheel well)
- T2c - Double Connector (under rear seat)
- T2d - Double Connector (in left front wheel well)
- T10n - 10-Pin Connector, orange, connector station A-pillar, left
- T31 - 31-Pin Connector



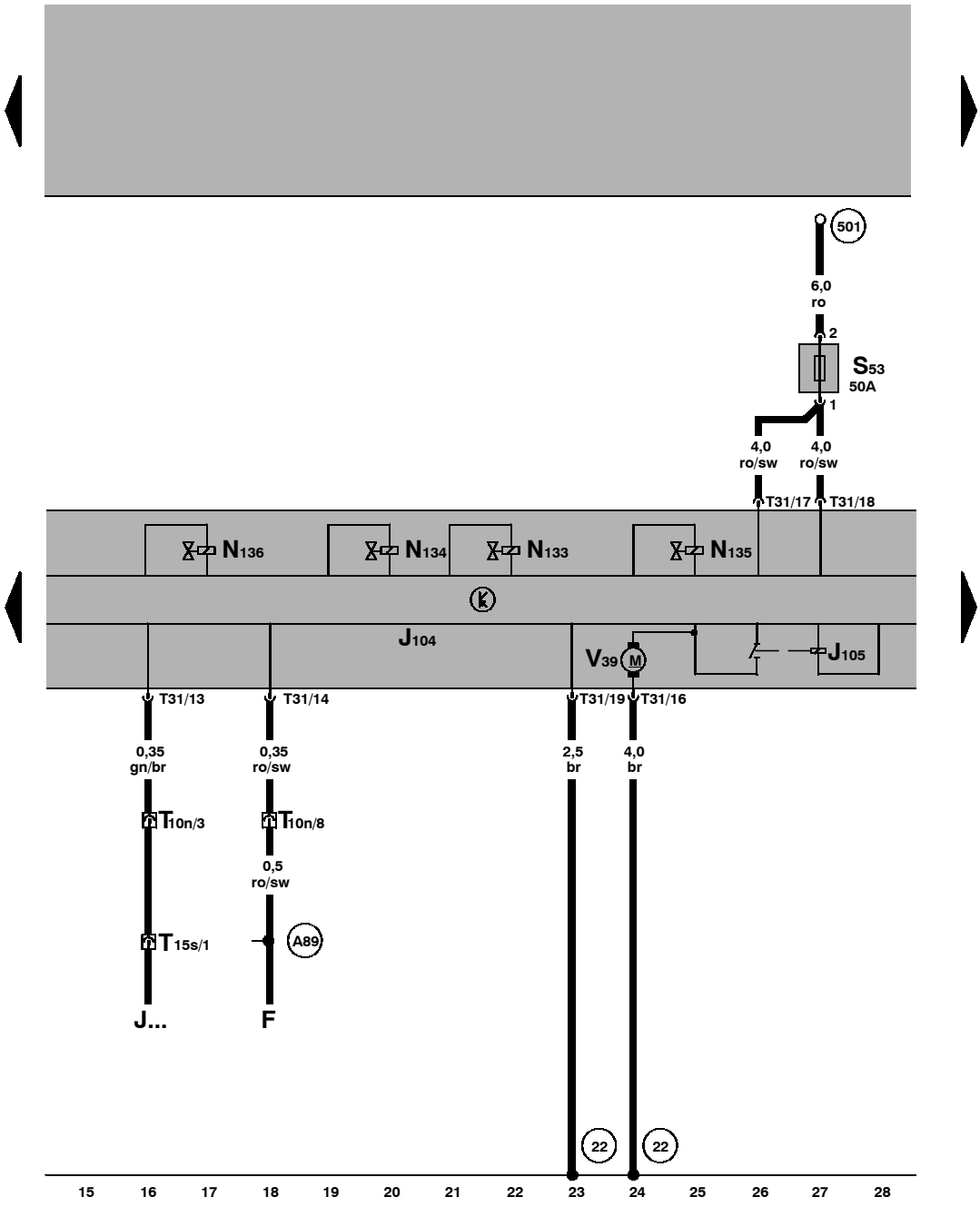
- (A2) - plus connection (15), in instrument panel wiring harness
- (A104) - Plus connection -2- (15), in instrument panel wiring harness
- \* - front wheel drive only
- \*\* - 4-Motion only

ws = white  
 sw = black  
 ro = red  
 br = brown  
 gn = green  
 bl = blue  
 gr = grey  
 li = lilac  
 ge = yellow  
 or = orange

1 2 3 4 5 6 7 8 9 10 11 12 13 14

97-29042

ABS Control Module, ABS Return Flow Pump



- J... - Engine Control Module (ECM)
- F - Brake Light Switch
- J104 - ABS Control Module
- J105 - ABS Return Flow Pump Relay
- N133 - Right Rear ABS Inlet Valve
- N134 - Left Rear ABS Inlet Valve
- N135 - Right Rear ABS Outlet Valve
- N136 - Left Rear ABS Outlet Valve
- S53 - ABS Hydraulic Pump Fuse
- T10n - 10-Pin Connector, orange, connector station A-pillar, left
- T15s - 15-Pin Connector, red
- T31 - 31-Pin Connector
- V39 - ABS Return Flow Pump
- (22) - Ground connection, on hydraulic unit
- (501) - Threaded connection -2- (30) on the relay plate
- (A89) - Connection 2 (54) (in instrument panel wiring harness)

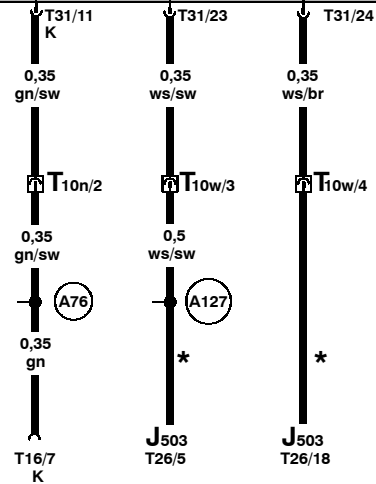
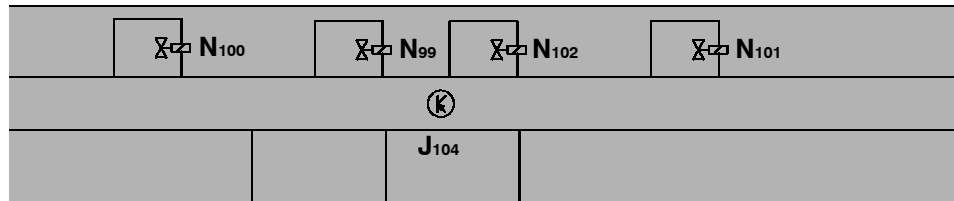
ws = white  
 sw = black  
 ro = red  
 br = brown  
 gn = green  
 bl = blue  
 gr = grey  
 li = lilac  
 ge = yellow  
 or = orange

ABS Control Module, Data Link Connector (DLC)

- J104 - ABS Control Module
- J503 - Radio/Navigation Display Control Module
- N99 - Right Front ABS Inlet Valve
- N100 - Right Front ABS Outlet Valve
- N101 - Left Front ABS Inlet Valve
- N102 - Left Front ABS Outlet Valve
- T10n - 10-Pin Connector, orange, connector station A-pillar, left
- T10w - 10-Pin Connector, grey, connector station A-pillar, right
- T16 - 16-Pin Connector, black, Data Link Connector (DLC), below instrument panel, left
- T26 - 26-Pin Connector, on Radio/Navigation Display Control Module
- T31 - 31-Pin Connector

- (A76) - Connection (K-diagnosis wire) in instrument panel wiring harness
- (A127) - Connection (left rear speed sensor) in instrument panel wiring harness

\* - Navigation only



29 30 31 32 33 34 35 36 37 38 39 40 41 42

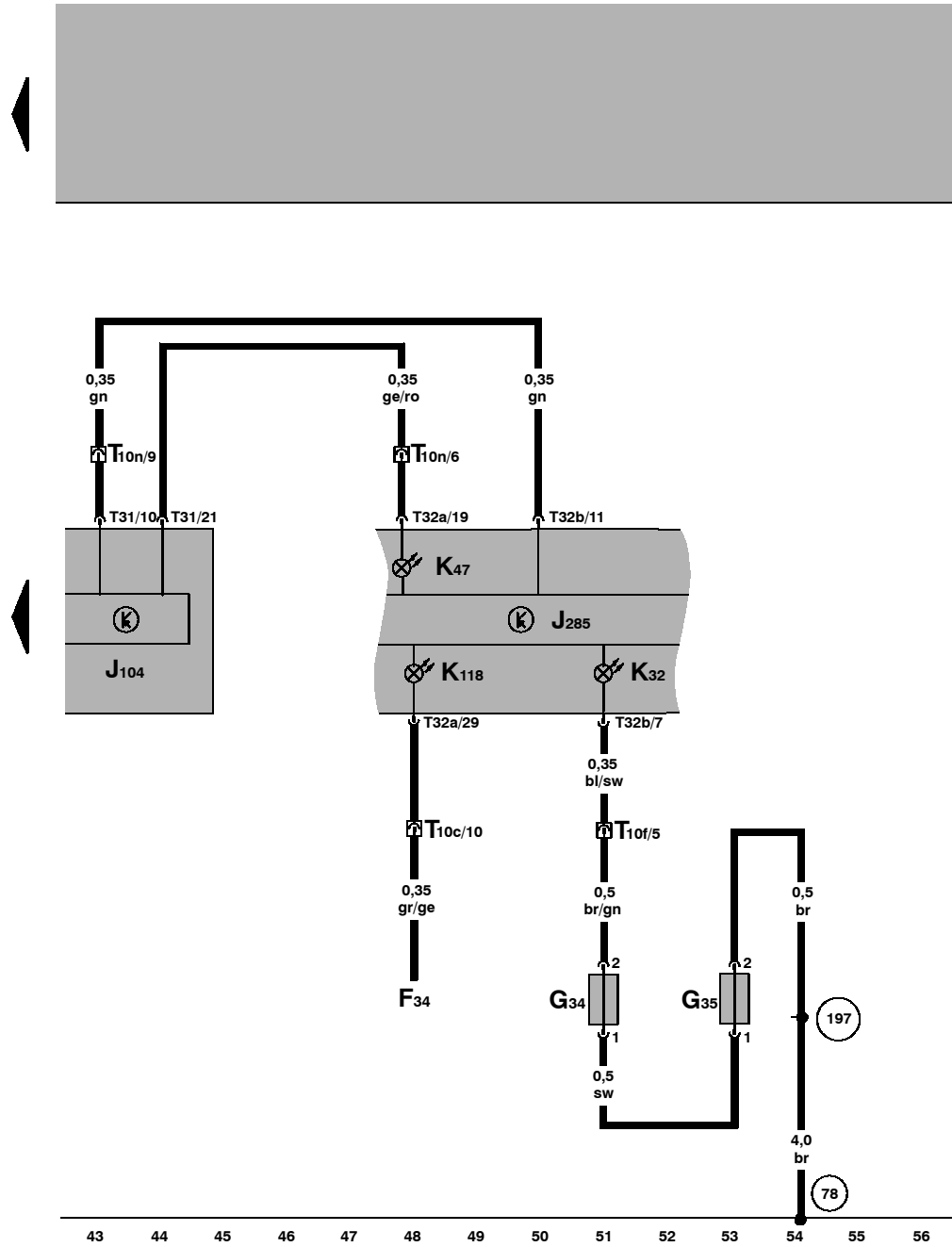
97-29044

ws = white  
 sw = black  
 ro = red  
 br = brown  
 gn = green  
 bl = blue  
 gr = grey  
 li = lilac  
 ge = yellow  
 or = orange

ABS Control Module, Control module with indicator unit

- F34 - Brake Fluid Level Warning Switch
- G34 - Left Front Brake Pad Wear Sensor
- G35 - Right Front Brake Pad Wear Sensor
- J104 - ABS Control Module (w/EDL)
- J285 - Control module with indicator unit in instrument panel insert
- K32 - Brake Pad Wear Indicator Light
- K47 - ABS Warning Light
- K118 - Warning light for brake system
- T10c - 10-Pin Connector, lilac, connector station A-pillar, left
- T10f - 10-Pin Connector, blue, connector station A-pillar, left
- T10n - 10-Pin Connector, orange, connector station A-pillar, left
- T31 - 31-Pin Connector
- T32a - 32-Pin Connector, blue, on instrument cluster
- T32b - 32-Pin Connector, green, on instrument cluster

- (78) - Ground connection (lower right B-pillar)
- (197) - Ground connection 4, in wiring harness rear



ws = white  
 sw = black  
 ro = red  
 br = brown  
 gn = green  
 bl = blue  
 gr = grey  
 li = lilac  
 ge = yellow  
 or = orange