

Automatic transmission, 5 speed automatic with tiptronic,**● 1.8L - Engine - Motronic Multiport Fuel Injection (MFI)/125 kW, code AWM**

from October 2000

● 2.0L - Engine - Turbo Diesel PD Fuel Injection (DFI)/100kW, code BHW

from November 2003

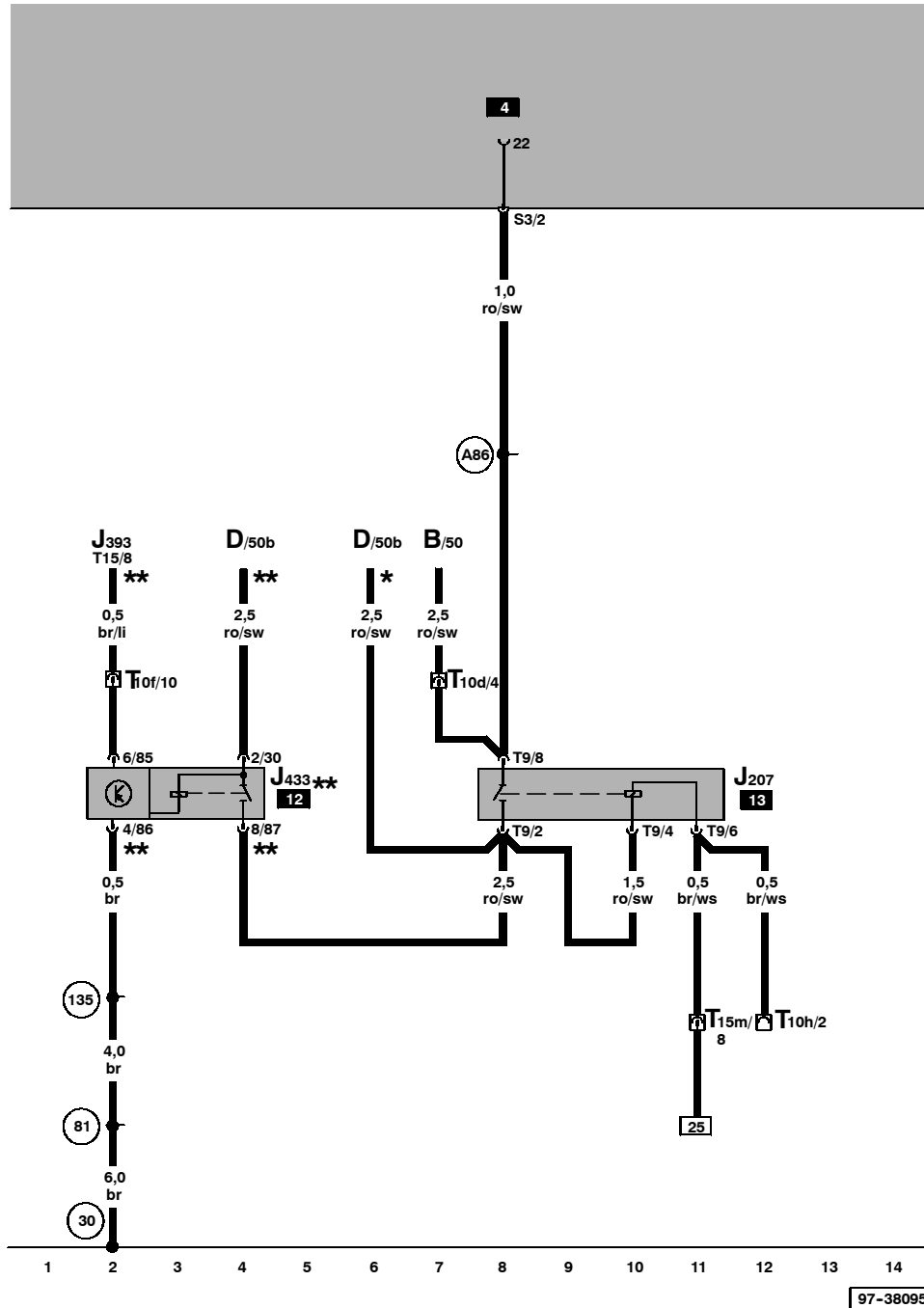
Notes:

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*



Starting Interlock Relay, Locking relay for starter (anti-theft immobilizer)

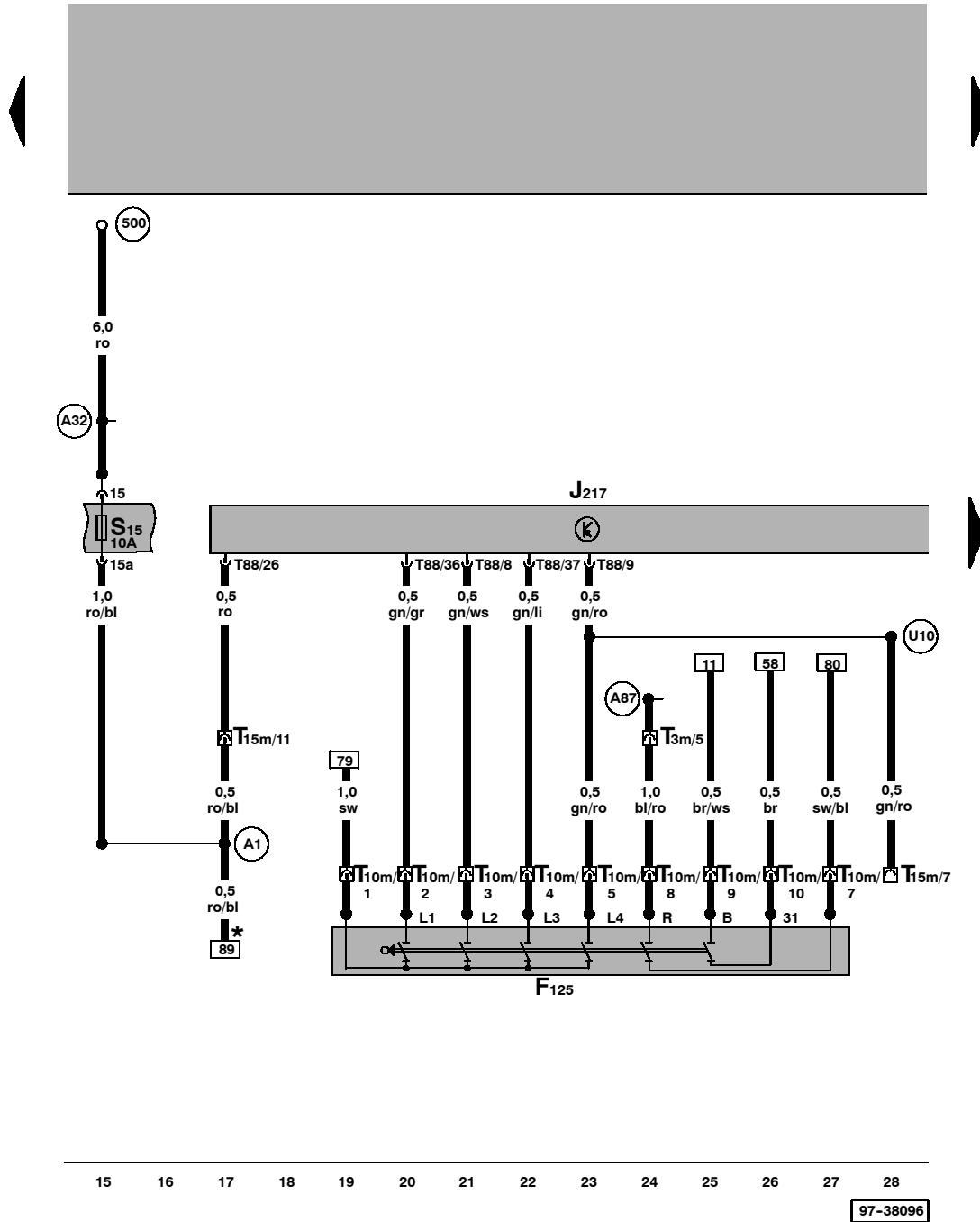
- B - Starter
- D - Ignition/Starter Switch
- J207 - Starting Interlock Relay
- J393 - Central control module for comfort system
- J433 - Locking relay for starter (anti-theft immobilizer)
- T9 - 9-Pin Connector, on Starting Interlock Relay
- T10d - 10-Pin Connector, brown, on protective housing for control module, in engine compartment, left
- T10f - 10-Pin Connector, blue, connector station A-pillar, left
- T10h - 10-Pin Connector, blue, on protective housing for control module, in engine compartment, left
- T15 - 15-Pin Connector, on Central control module for comfort system
- T15m - 15-Pin Connector, brown, connector station A-pillar, right

- (30) - Ground connection -1-, beside fuse/relay panel
- (81) - Ground connection -1-, in instrument panel wiring harness
- (135) - Ground connection -2-, in instrument panel wiring harness
- (A86) - Connection (50a), in instrument panel wiring harness

- * - from May 2003 where applicable
- ** - through April 2003 where applicable

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

Transmission Control Module (TCM), Multi-Function Transmission Range (TR) Switch



- F125 - Multi-Function Transmission Range (TR) Switch
- J217 - Transmission Control Module (TCM), in front footwell, right
- S15 - Fuse
- T3m - 3-Pin Connector, brown, connector station A-pillar, right
- T10m- 10-Pin Connector
- T15m- 15-Pin Connector, brown, connector station A-pillar, right
- T88 - Connector, 88 point, on Transmission Control Module (TCM)

- 500 - Threaded Connection -1- (30), on relay plate
- A1 - plus connection (30a), in instrument panel wiring harness
- A32 - plus connection (30), in instrument panel wiring harness
- A87 - Connector (reverse lamp), in instrument panel wiring harness
- U10 - Cruise Control Connection (in automatic transmission wiring harness)

* - through April 2003

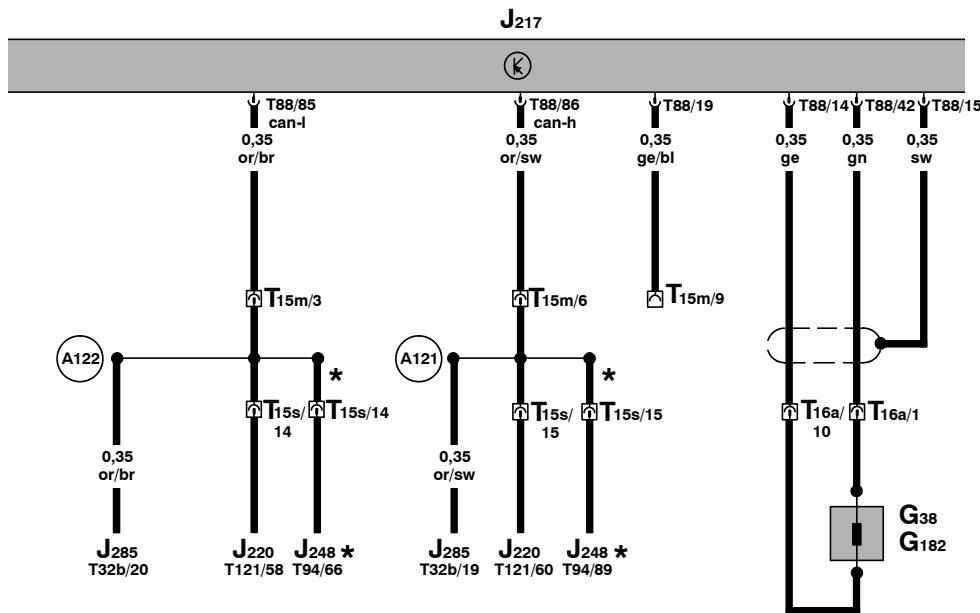
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97-38096

Transmission Control Module (TCM), Transmission Vehicle Speed Sensor (VSS)

- G38 - Transmission Vehicle Speed Sensor (VSS)
- G182 - Sensor for transmission RPM
- J217 - Transmission Control Module (TCM), in front footwell, right
- J220 - Motronic Engine Control Module (ECM)
- J248 - Diesel Direct Fuel Injection (DFI) Engine Control Module (ECM)
- J285 - Control module with indicator unit in instrument panel insert
- T15m- 15-Pin Connector, brown, connector station A-pillar, right
- T15s - 15-Pin Connector, red, on protective housing for control module, in engine compartment, left
- T16a - 16-Pin Connector, on transmission
- T32b - 32-Pin Connector, green, on instrument cluster
- T88 - Connector, 88 point, on Transmission Control Module (TCM)
- T94 - 94-Pin connector
- T121 - Connector, 121 point, on Motronic Engine Control Module (ECM)

- (A121) - Connection (high-bus), in instrument panel wiring harness
- (A122) - Connection (low-bus), in instrument panel wiring harness
- * - engine code BHW only



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

97-91492

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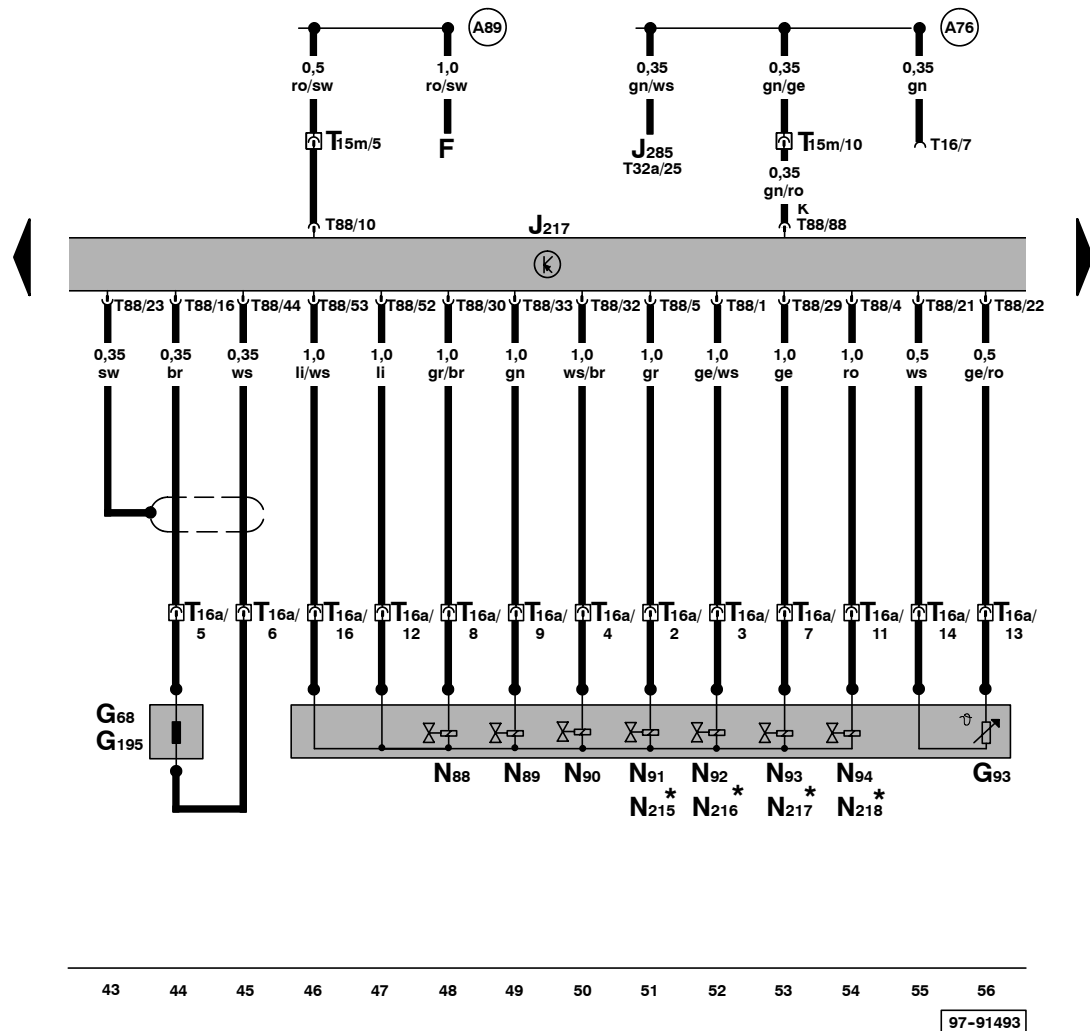
Transmission Control Module (TCM), Solenoid Valves, Transmission Fluid Temperature Sensor, Vehicle Speed Sensor (VSS)

- F - Brake Light Switch
- G68 - Vehicle Speed Sensor (VSS)
- G93 - Transmission Fluid Temperature Sensor
- G195 - Sensor for Transmission output RPM
- J217 - Transmission Control Module (TCM), in front footwell, right
- J285 - Control module with indicator unit in instrument panel insert
- N88 - Solenoid Valve 1
- N89 - Solenoid Valve 2
- N90 - Solenoid Valve 3
- N91 - Solenoid Valve 4
- N92 - Solenoid Valve 5
- N93 - Solenoid Valve 6
- N94 - Solenoid Valve 7
- N215 - Pressure Control Valve 1 for Auto. transmission
- N216 - Pressure Control Valve 2 for Auto. transmission
- N217 - Pressure Control Valve 3 for Auto. transmission
- N218 - Pressure Control Valve 4 for Auto. transmission
- T15m - 15-Pin Connector, brown, connector station A-pillar, right
- T16 - 16-Pin Connector, black, Data Link Connector (DLC) below instrument panel, left
- T16a - 16-Pin Connector, on transmission
- T32a - 32-Pin Connector, blue, on instrument cluster
- T88 - Connector, 88 point, on Transmission Control Module (TCM)

- (A76) - Connector (K-diagnosis wire), in instrument panel wiring harness
- (A89) - Connector (54) (in instrument panel wiring harness)

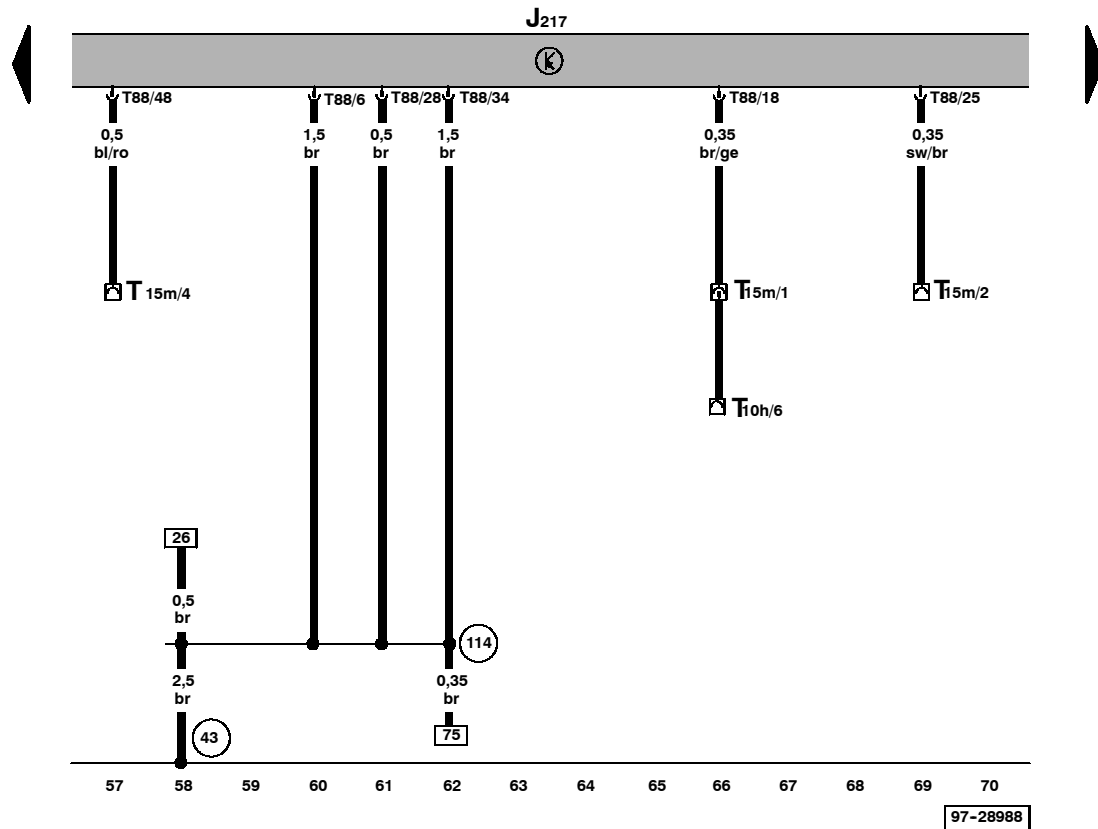
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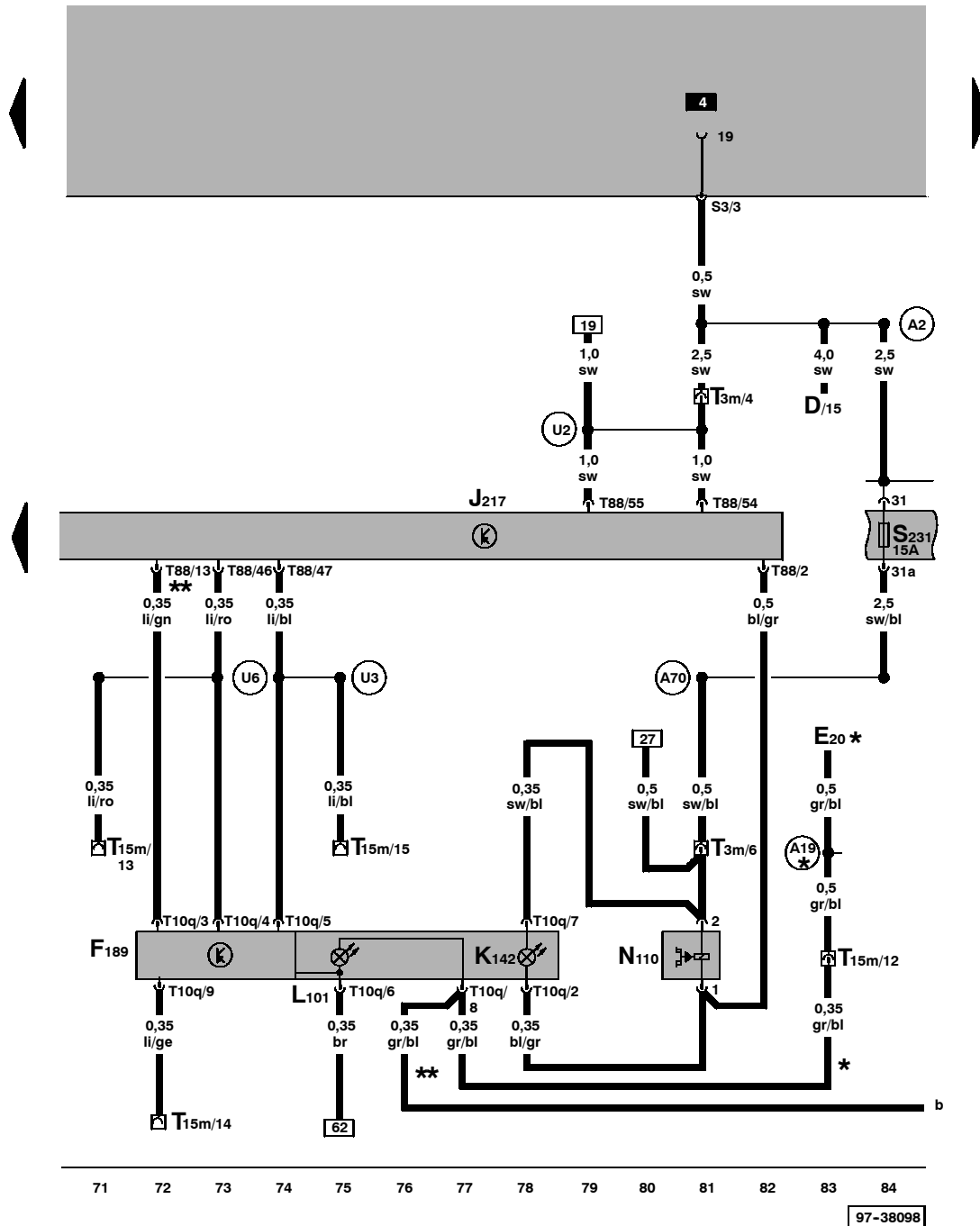
Transmission Control Module (TCM)

- J217 - Transmission Control Module (TCM), in front footwell, right
- T10h - 10-Pin Connector, blue, on protective housing for control module, in engine compartment, left
- T15m - 15-Pin Connector, brown, connector station A-pillar, right
- T88 - Connector, 88 point, on Transmission Control Module (TCM)
- 43 - Ground connection, on right A-pillar, lower part
- 114 - Ground connection, in automatic transmission wiring harness



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Transmission Control Module (TCM), Shift Lock Solenoid, Tiptronic Switch



- D - Ignition/Starter Switch
- E20 - Instrument Panel Light Dimmer Switch *
- F189 - Tiptronic Switch
- J217 - Transmission Control Module (TCM), in front footwell, right
- K142 - Warning light for selector lever position P/N
- L101 - Illumination for selector lever scale
- N110 - Shift Lock Solenoid
- S231 - Fuse in fuse holder
- T3m - 3-Pin Connector, brown, connector station A-pillar, right
- T10q - 10-Pin Connector
- T15m - 15-Pin Connector, brown, connector station A-pillar, right
- T88 - Connector, 88 point, on Transmission Control Module (TCM)

- (A2) - plus connection (15), in instrument panel wiring harness
- (A19) - wire connection (58d), in instrument panel wiring harness *
- (A70) - Connector (15a, fuse 231), in instrument panel wiring harness
- (U2) - wire connection -1- (15), in automatic transmission wiring harness
- (U3) - wire connection -1-, in automatic transmission wiring harness
- (U6) - wire connection -2-, in automatic transmission wiring harness

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97-38098

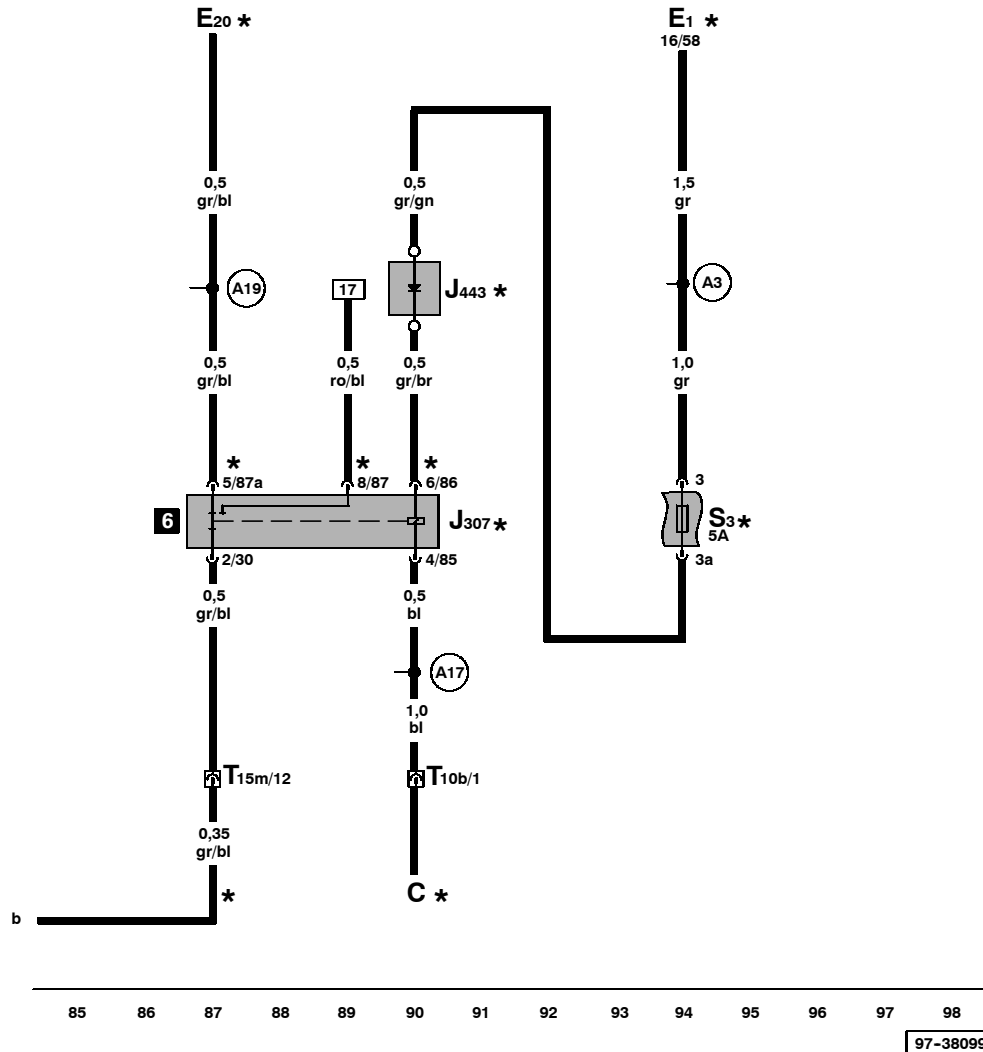
Selector Lever Light, Locking diode for selector lever illumination



- C - Generator (GEN)
- E1 - Light switch
- E20 - Instrument Panel Light Dimmer Switch
- J307 - Selector Lever Light Relay
- J443 - Locking diode for selector lever illumination
- S3 - Fuse
- T10b - 10-Pin Connector, black, on protective housing for control module, in engine compartment, left
- T15m - 15-Pin Connector, brown, connector station A-pillar, right

- (A3) - plus connection (58), in instrument panel wiring harness
- (A17) - wire connection (61), in instrument panel wiring harness
- (A19) - wire connection (58d), in instrument panel wiring harness

* - through April 2003



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97-38099