

## Dash panel insert – up to Model Year 1999

### Attention:

- ◆ Disconnect battery earth strap before working on electrical system.
- ◆ On vehicles fitted with telematics system, activate telematics control-unit service mode before disconnecting battery. => Radio, Telephone, Navigation; Repair Group 91

- Heed (if necessary obtain) code for vehicles with encoded radio/radio navigation system (RNS).
- Disconnect battery earth strap with ignition switched off.

### Note:

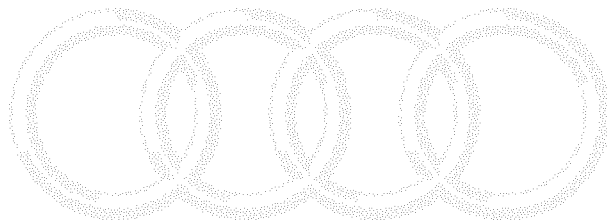
Action to be taken after re-connecting power supply => Page 27-13.

———— 90-1 ————

### "dEF" display on trip recorder

If control unit in dash panel insert detects a ROM fault, "dEF" is displayed on trip recorder.

- If "dEF" appears, replace dash panel insert => Page 90-3.



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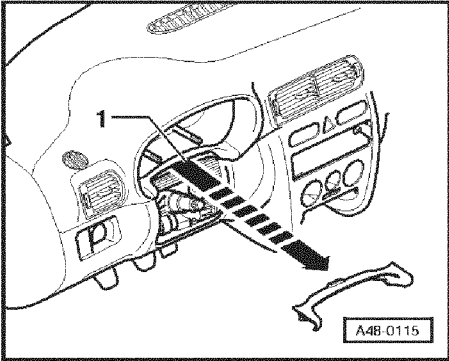
———— 90-2 ————

## Removing and installing dash panel insert

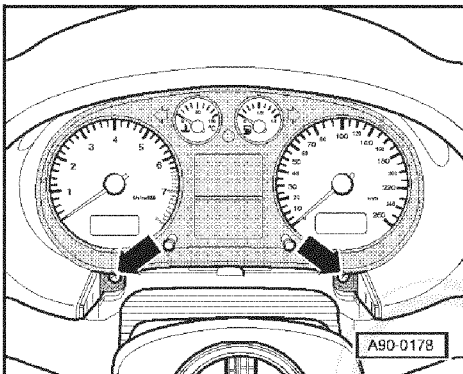
### Removing

#### Notes:

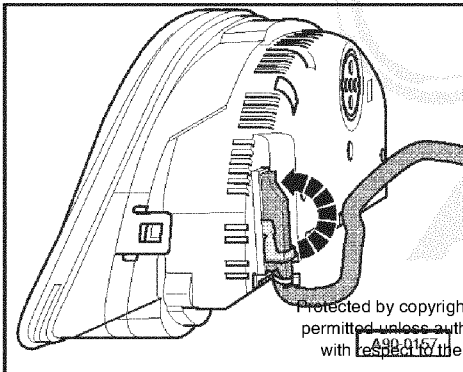
- ◆ Dash panel insert is not to be dismantled.
- ◆ Removal of dash panel insert does not involve taking out steering wheel.
- ◆ All cable ties unfastened or cut open on removal are to be re-attached in same position on installation.
- Determine input values for dash panel insert replacement:  
= > Electrical System Self-diagnosis; Repair Group 01; Self-diagnosis of dash panel insert up to Model Year 1999 = >
- Pull out steering wheel with adjuster as far as it will go and tilt it downwards.
- Pull off surround -1- in direction of arrow.



90-3



- Screw out bolts -arrows-.
- Pull out dash panel insert to front.
- If fitted, cut open cable ties on back of dash panel insert.



- Release catches of connectors -arrow- and unplug connectors.

### Installing

Install in reverse order, paying attention to the following:

- After installation, check operation of dash panel insert.
- If operation is OK, enter input values for dash panel insert:  
= > Electrical System Self-diagnosis; Repair Group 01; Self-diagnosis of dash panel insert up to Model Year 1999 = >

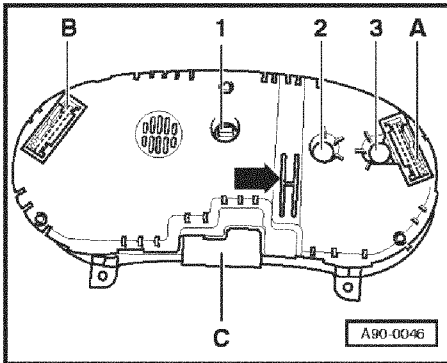
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90-4

## Assignment of dash panel insert lamps – Model Year 1997

### Note:

With three exceptions, all warning lamps are fitted with light-emitting diodes. Dash panel insert must be replaced in the event of failure of warning lamp with LED.



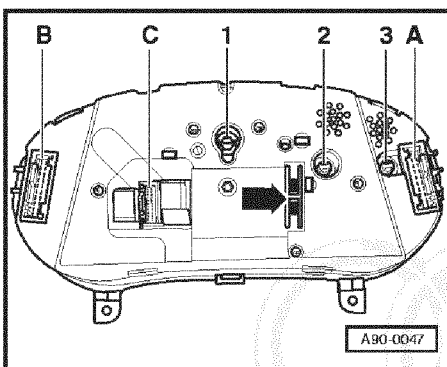
### Midline dash panel insert

- 1 - Main beam warning lamp
- 2 - Traction control system (TCS) warning lamp (only if TCS fitted)
- 3 - Trailer turn signal indicator lamp (only if trailer coupling fitted)
- A - Blue 32-pin connector for basic functions
- B - Green 32-pin connector for additional functions
- C - Cover panel for vehicles with no ambient temperature display

### Note:

Cover panel -C- is to be removed if dash panel insert is replaced on vehicles with ambient temperature display or if ambient temperature display is retrofitted.

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### Highline dash panel insert

- 1 - Main beam warning lamp
- 2 - Traction control system (TCS) warning lamp (only if TCS fitted)
- 3 - Trailer turn signal indicator lamp (only if trailer coupling fitted)
- A - Blue 32-pin connector for basic functions
- B - Green 32-pin connector for additional functions
- C - Red 20-pin connector for driver information system (DIS)

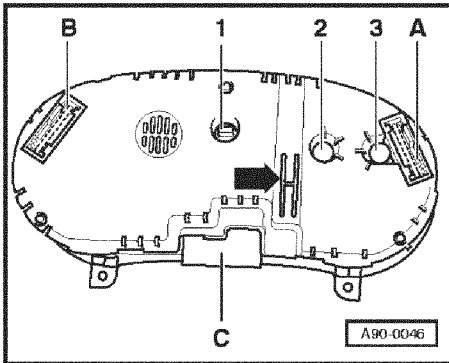
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## Assignment of dash panel insert lamps – as of Model Year 1998

### Note:

With two exceptions, all warning lamps are fitted with light-emitting diodes. Dash panel insert must be replaced in the event of failure of warning lamp with LED.



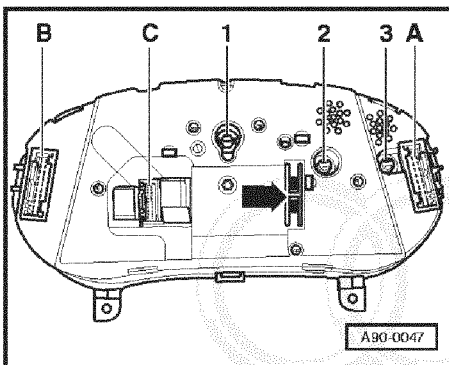
### Midline dash panel insert

- 1 - Main beam warning lamp
- 2 - Electronic stability program (ESP) warning lamp (only if ESP fitted)
- 3 - Trailer turn signal indicator lamp (only if trailer coupling fitted)
- A - Blue 32-pin connector for basic functions
- B - Green 32-pin connector for additional functions
- C - Cover panel for vehicles with no ambient temperature display

### Note:

Cover panel -C- is to be removed if dash panel insert is replaced on vehicles with ambient temperature display or if ambient temperature display is retrofitted.

90-7



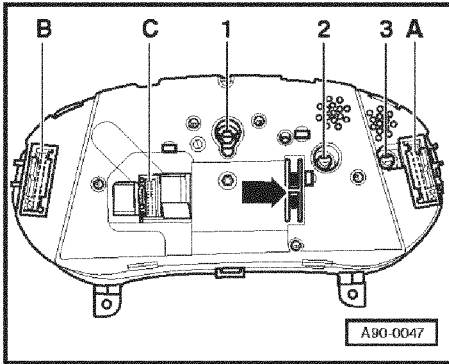
### Highline dash panel insert

- 1 - Main beam warning lamp
- 2 - Electronic stability program (ESP) warning lamp (only if ESP fitted)
- 3 - Trailer turn signal indicator lamp (only if trailer coupling fitted)
- A - Blue 32-pin connector for basic functions
- B - Green 32-pin connector for additional functions
- C - Red 20-pin connector for driver information system (DIS)

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90-8

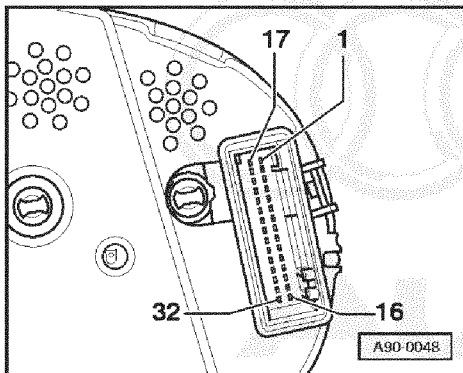
## Multi-pin connectors at dash panel insert



- ◀ - A - Green 32-pin connector
- B - Blue 32-pin connector
- C - Red 20-pin connector

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## Assignment of contacts at multi-pin connectors at dash panel insert – Model Year 1997

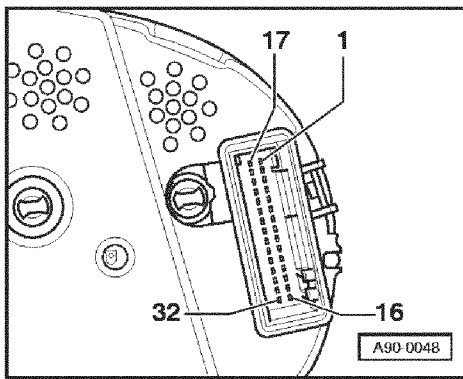


### Blue 32-pin connector

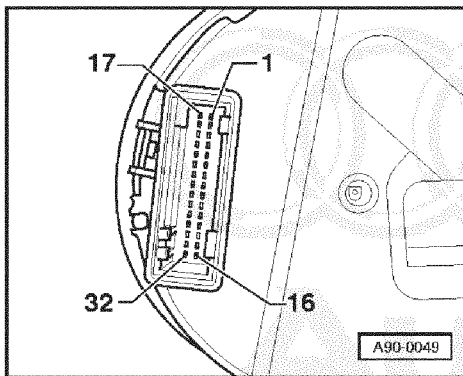
- ◀ - 1 - Terminal 15
- 2 - Right turn signal indicator
- 3 - Speedometer output 1
- 4 - Not used
- 5 - Fuel-gauge sender
- 6 - Airbag
- 7 - Terminal 31 (sensor earth)
- 8 - Coolant temperature
- 9 - Terminal 31 (load earth)
- 10 - Oil pressure switch
- 11 - Engine speed signal
- 12 - Terminal 61
- 13 - Glow period warning lamp or CAT
- 14 - Rear fog light
- 15 - Not used
- 16 - Trailer turn signal indicator

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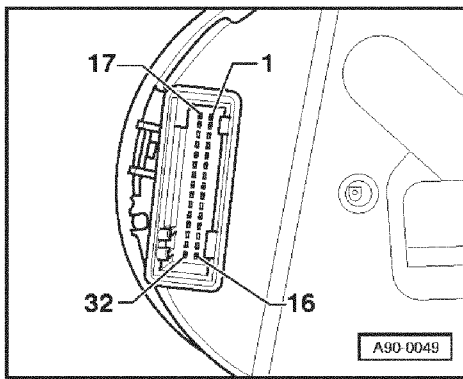
- ◀ - 17 - Main beam
- 18 - Left turn signal indicator
- 19 - ABS
- 20 - Terminal 58d
- 21 - Driver's door contact
- 22 - Coolant low
- 23 - Terminal 30
- 24 - Terminal 31 (load earth)
- 25 - K-wire
- 26 - Right parking light
- 27 - Left parking light
- 28 - Speedometer input
- 29 - Brake fluid level/pressure
- 30 - S-contact
- 31 - Belt buckle
- 32 - TCS (not used at present)



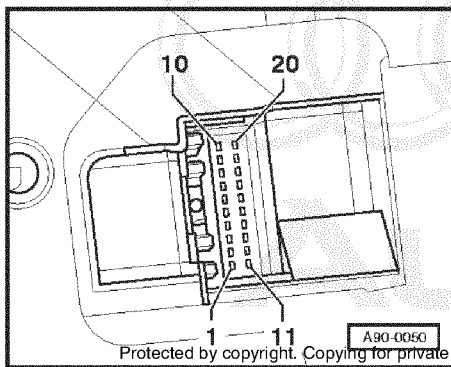
**Green 32-pin connector**

- ◀ - 1 - Transponder screen
- 2 - Transponder coil
- 3 - Not used
- 4 - Not used
- 5 - W-wire
- 6 - Tailgate/boot lid (midline version only)
- 7 - Brake pad (not used at present)
- 8 - Input for external buzzer actuation (not used at present)
- 9 - Input for external gong actuation (not used at present)
- 10 - Tank warning output signal for engine control unit (not used at present)
- 11 - Standing time output
- 12 - Air conditioner shutoff
- 13 - Parking brake
- 14 - Tailgate/boot lid (highline version only)
- 15 - Side light
- 16 - Not used

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- ◀ - 17 - Transponder coil
- 18 - Not used
- 19 - Not used
- 20 - Not used
- 21 - Not used
- 22 - Not used
- 23 - Not used
- 24 - Not used
- 25 - Not used
- 26 - Ambient temperature
- 27 - Not used
- 28 - Not used
- 29 - Terminal 58d (output signal from photosensor)
- 30 - Speedometer output 2
- 31 - Selector lever position display
- 32 - Not used



**Red 20-pin connector**

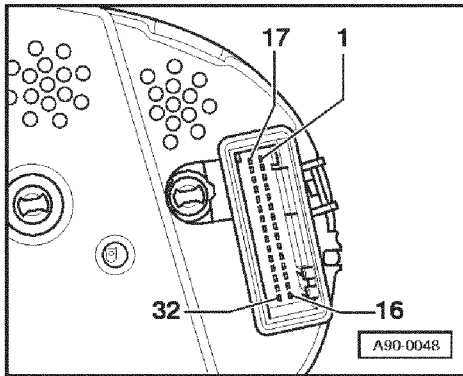
- ◀ - 1 - Consumption signal
- 2 - Not used
- 3 - Not used
- 4 - Not used
- 5 - Ambient temperature
- 6 - Selector lever position display
- 7 - Not used
- 8 - Not used

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**Hydraulic pressure**

- 9 - Washer fluid
- 10 - Hydraulic pressure
- 11 - On-board computer/reset
- 12 - Clock signal for radio frequency display
- 13 - Data signal for radio frequency display
- 14 - On-board computer/left
- 15 - Enable signal for radio frequency display
- 16 - Reversing light/dipped beam (lamp check)
- 17 - Glow plug relay (with diesel engine only, undervoltage monitoring in dash panel insert is suppressed during glow period)
- 18 - On-board computer/right
- 19 - Brake light
- 20 - Not used

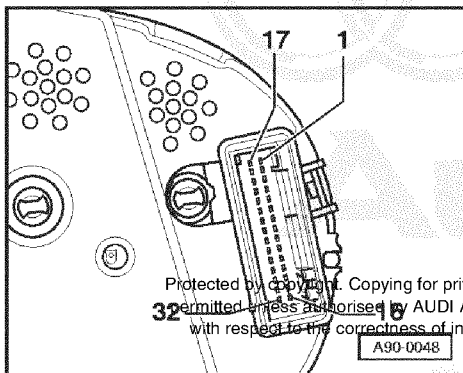
## Assignment of contacts at multi-pin connectors at dash panel insert – as of Model Year 1998



### Blue 32-pin connector

- 1 - Terminal 15
- 2 - Right turn signal indicator
- 3 - Speedometer output 1
- 4 - Not used
- 5 - Fuel-gauge sender
- 6 - Airbag
- 7 - Terminal 31 (sensor earth)
- 8 - Coolant temperature
- 9 - Terminal 31 (load earth)
- 10 - Oil pressure switch
- 11 - Engine-speed signal
- 12 - Terminal 61
- 13 - Glow period warning lamp or CAT
- 14 - Self-levelling suspension (not used at present)
- 15 - Terminal 58d
- 16 - Trailer turn signal indicator

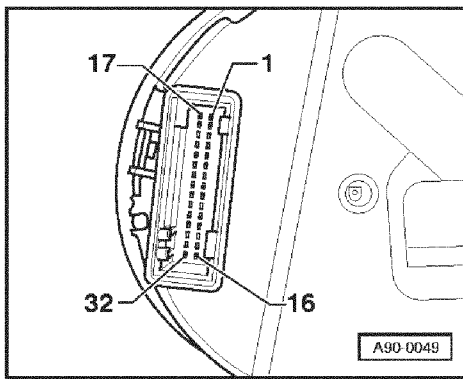
90-15



- 17 - Main beam
- 18 - Left turn signal indicator
- 19 - ABS
- 20 - Terminal 58b
- 21 - Driver's door contact
- 22 - Coolant low
- 23 - Terminal 30
- 24 - Terminal 31 (load earth)
- 25 - K-wire
- 26 - Right parking light
- 27 - Left parking light
- 28 - Speedometer input
- 29 - Brake fluid level/pressure
- 30 - S-contact
- 31 - Belt buckle
- 32 - TCS

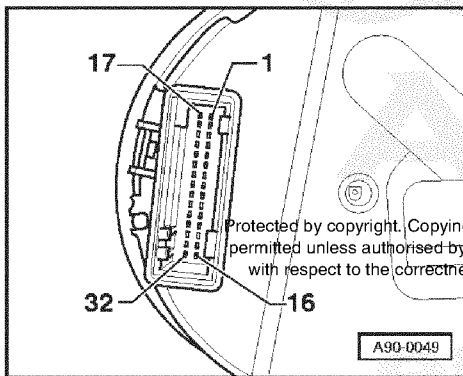
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90-16

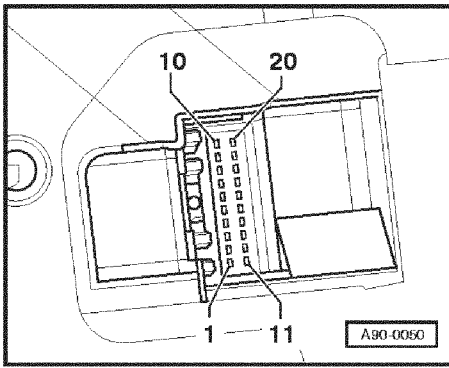


### Green 32-pin connector

- ◀ - 1 - Not used
- 2 - Transponder 1
- 3 - Not used
- 4 - Not used
- 5 - W-wire
- 6 - Tailgate/boot lid (midline version only)
- 7 - Brake pad (not used at present)
- 8 - Input for external buzzer actuation (not used at present)
- 9 - Input for external gong actuation (not used at present)
- 10 - Tank warning output signal for engine control unit (not used at present)
- 11 - Standing time output
- 12 - Air conditioner shutoff

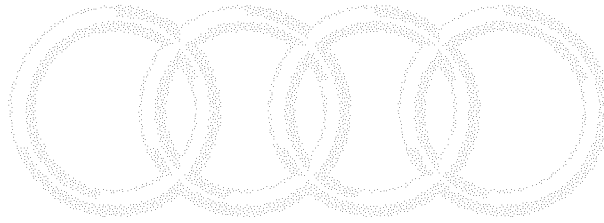


- ◀ - 13 - Parking brake
- 14 - Electronic throttle
- 15 - Side light
- 16 - Not used
- 17 - Transponder 2
- 18 - Not used
- 19 - Not used
- 20 - Not used
- 21 - Not used
- 22 - Not used
- 23 - Not used
- 24 - Not used
- 25 - Not used
- 26 - Not used
- 27 - Not used
- 28 - Not used
- 29 - Terminal 58d (external dimmer potentiometer)
- 30 - Speedometer output 2
- 31 - Not used
- 32 - Not used



### Red 20-pin connector

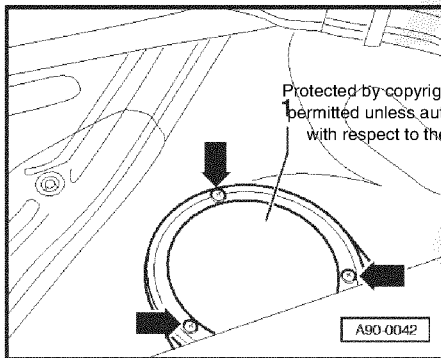
- 1 - Consumption signal
- 2 - Not used
- 3 - Not used
- 4 - Not used
- 5 - Ambient temperature
- 6 - Selector lever position display
- 7 - Not used
- 8 - Not used
- 9 - Washer fluid
- 10 - Hydraulic pressure
- 11 - On-board computer/reset
- 12 - Clock signal for radio frequency display
- 13 - Data signal for radio frequency display
- 14 - On-board computer/left
- 15 - Enable signal for radio frequency display
- 16 - Reversing light/dipped beam (lamp check)
- 17 - Glow plug relay (with diesel engine only, undervoltage monitoring in dash panel insert is suppressed during glow period)
- 18 - On-board computer/right
- 19 - Brake light
- 20 - Not used



### Connection assignment at fuel-gauge sender

Fuel-gauge sender is located beneath rear seat bench.

- Remove rear seat bench.

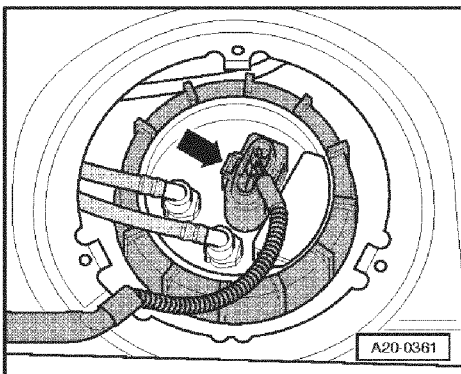


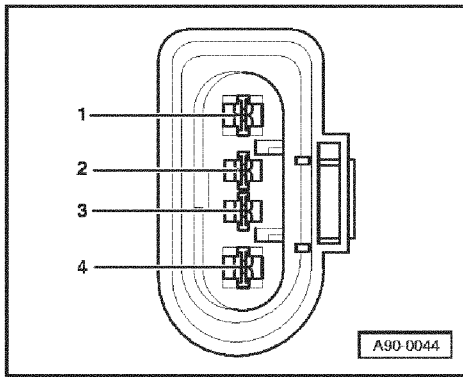
Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG. > General Body Repairs, Interior; Repair Group 72 =>

Unscrew cover, to sealing flange -arrows-.

### Vehicles with petrol engine:

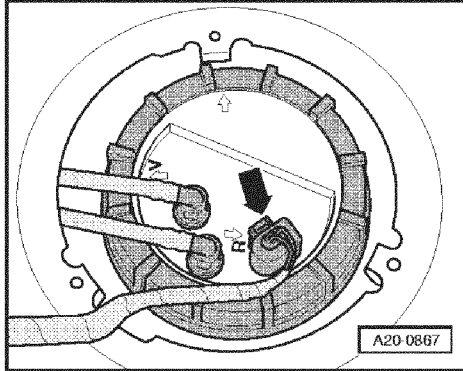
- Carefully release 4-pin connector -arrow- and unplug.





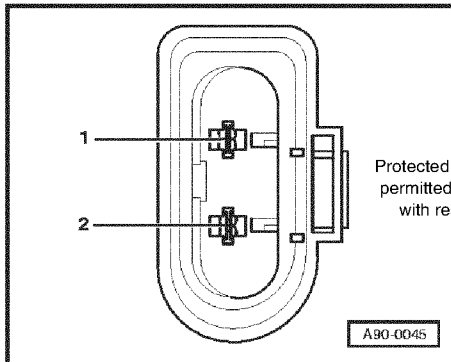
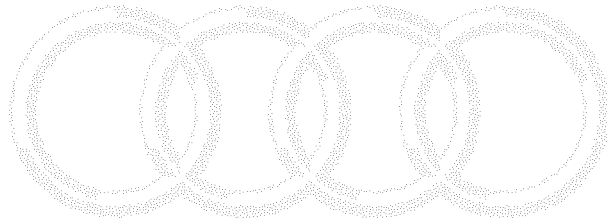
**Assignment of 4-pin connector at fuel-gauge sender**

- ◀ - 1 - Switched-positive connection of electric fuel pump
- 2 - Wiring between fuel-gauge sender and dash panel insert (fuel gauge)
- 3 - Fuel-gauge sender earth (sensor earth)
- 4 - Electric fuel pump earth



**Vehicles with TDI engine:**

- ◀ - Carefully release 2-pin connector -arrow- and unplug.



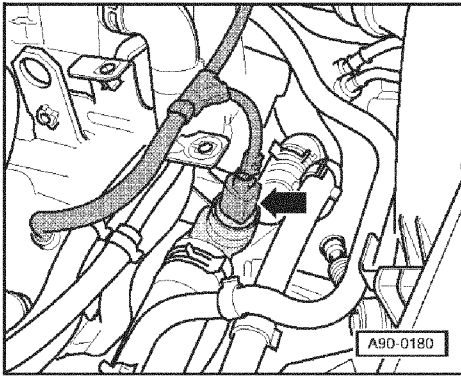
**Assignment of 2-pin connector at fuel gauge sender**

- 1 - Wiring between fuel-gauge sender and dash panel insert (fuel gauge)
- 2 - Fuel-gauge sender earth (sensor earth)

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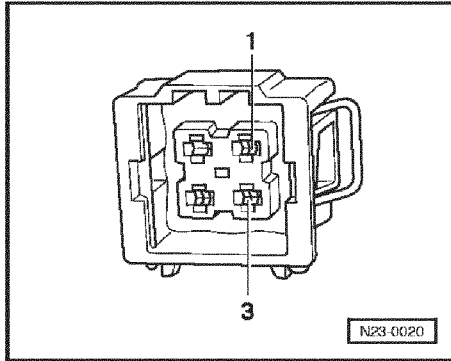
## Terminal assignment at coolant temperature sender - G2



- ◀ Coolant temperature sender is located at thermostat connection.
  - Carefully release 4-pin connector -arrow- and unplug.

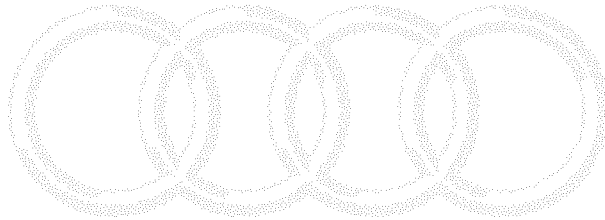
### **Note:**

*Fig. shows vehicle with 1.8 l turbo engine.*

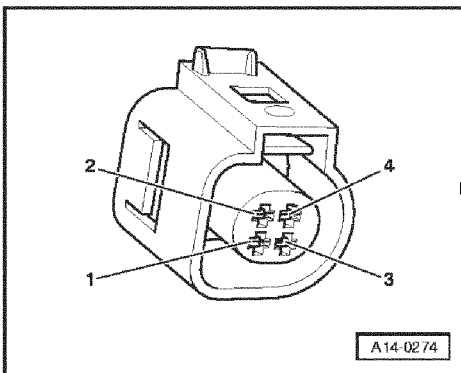


### Assignment of 4-pin connector at coolant temperature sender

- ◀ ● Square connector
  - 1 - Wiring between coolant temperature sender and dash panel insert (temperature gauge)
  - 2 - Earth



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- ◀ ● Oval connector
  - 1 - Wiring between coolant temperature sender and dash panel insert (temperature gauge)
  - 2 - Earth

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erWin

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## Radio clock

### **Note:**

*Aerial symbol at top left of clock display indicates that vehicle is fitted with radio clock.*

Radio clock is integrated into dash panel insert and is not available as a separate replacement part.

– If radio clock is defective, dash panel insert must be replaced

= > Page 90-3.



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## Dash panel insert – as of Model Year 2000

### **Attention:**

- ◆ **Disconnect battery earth strap before working on electrical system.**
- ◆ **On vehicles fitted with telematics system, activate telematics control-unit service mode before disconnecting battery. => Radio, Telephone, Navigation; Repair Group 91**

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– Disconnect battery earth strap with ignition switched off.

### **Note:**

*Action to be taken after re-connecting power supply => Page 27-13.*

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## "dEF" display on trip recorder

If control unit in dash panel insert detects a ROM fault, "dEF" is displayed on trip recorder.

- If "dEF" appears, replace dash panel insert => Page 90-28.

### Removing and installing dash panel insert

#### Removing

##### Notes:

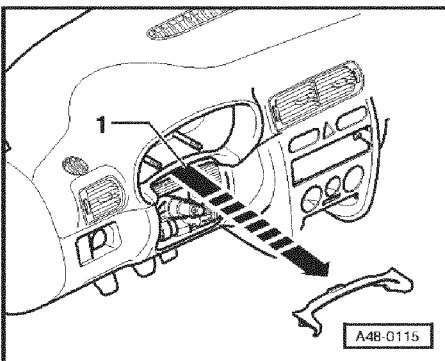
- ◆ Dash panel insert is not to be dismantled.
- ◆ Removal of dash panel insert does not involve taking out steering wheel.

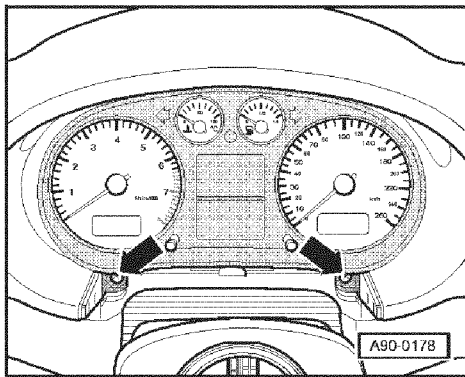
◆ All cable ties unfastened or cut open on removal are to be re-attached in same position on installation.

- Determine input values for dash panel insert replacement:

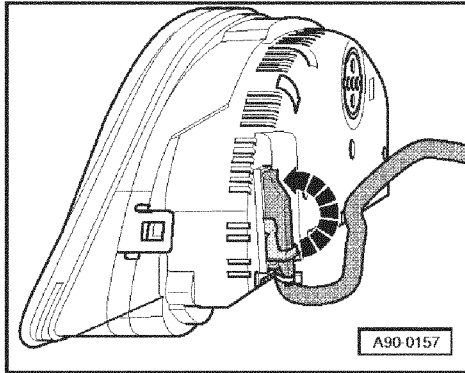
=> Electrical System Self-diagnosis; Repair Group 01; Self-diagnosis of dash panel insert with Long Life Service as of Model Year 2000 =>

- Pull out steering wheel with adjuster as far as it will go and tilt it downwards.
- Pull off surround -1- in direction of arrow.





- ◀ – Screw out bolts -arrows-.
- Pull out dash panel insert to front.
- If fitted, cut open cable ties on back of dash panel insert.



- ◀ – Release catches of connectors -arrow- and unplug connectors.

#### Installing

Install in reverse order, paying attention to the following:

- After installation, check operation of dash panel insert.
- If operation is OK, enter input values for dash panel insert:  
= > Electrical System Self-diagnosis; Repair Group 01; Self-diagnosis of dash panel insert with Long Life Service as of Model Year 2000 = >

### Multi-pin connectors at dash panel insert

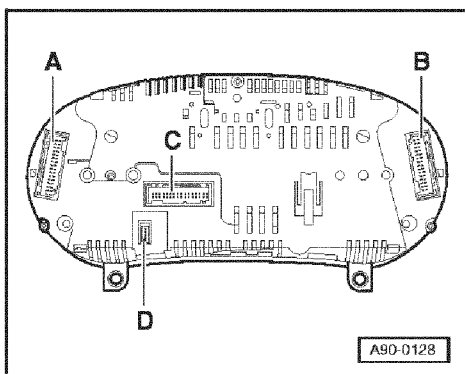
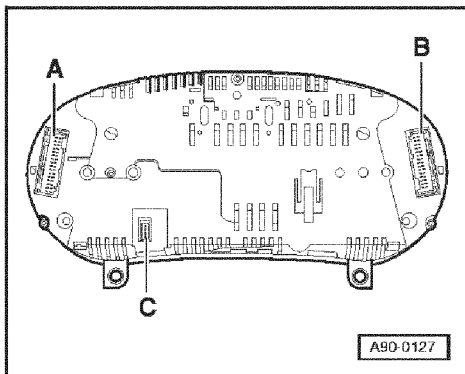
#### Note:

*All warning lamps in dash panel insert are fitted with light-emitting diodes. Dash panel insert must be replaced in the event of warning lamp failure.*

#### Midline dash panel insert

- A - Green 32-pin connector
- B - Blue 32-pin connector

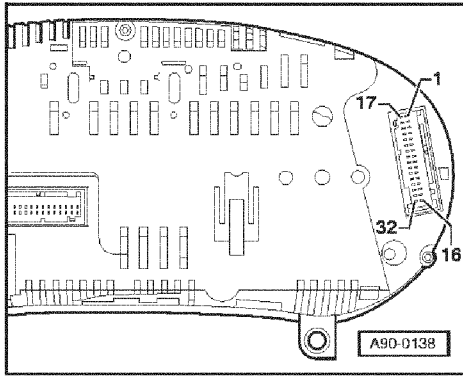
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#### Highline dash panel insert

- A - Green 32-pin connector
- B - Blue 32-pin connector
- C - Grey 32-pin connector
- D - Black, 4-pin connector for radio clock

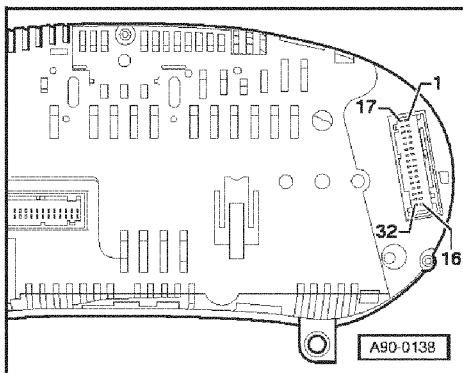
## Assignment of contacts at multi-pin connectors at dash panel insert



### Blue 32-pin connector

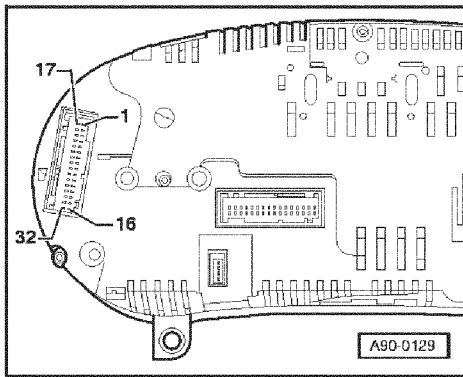
- 1 - Terminal 15
- 2 - Brake pad wear
- 3 - Speedometer output 1
- 4 - Not used
- 5 - Fuel-gauge sender
- 6 - Tank warning OBD 2
- 7 - Terminal 31 (sensor earth)
- 8 - Coolant temperature
- 9 - Terminal 31 (load earth)
- 10 - Oil pressure 2 (high)
- 11 - Engine-speed signal
- 12 - Air conditioner shutoff
- 13 - Electronic throttle/glow period warning lamp
- 14 - Self-levelling suspension
- 15 - Terminal 58d
- 16 - Trailer turn signal indicator

90-31



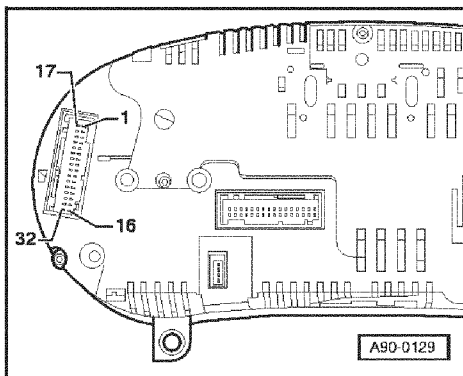
- 17 - Main beam
- 18 - Left turn signal indicator
- 19 - Not used
- 20 - Terminal 58s
- 21 - Driver's door contact
- 22 - Coolant low
- 23 - Terminal 30
- 24 - Terminal 31 (load earth)
- 25 - Consumption signal
- 26 - Right parking light
- 27 - Left parking light
- 28 - Speedometer input
- 29 - Brake
- 30 - S-contact
- 31 - Speedometer output 2
- 32 - ESP/TCS

90-32

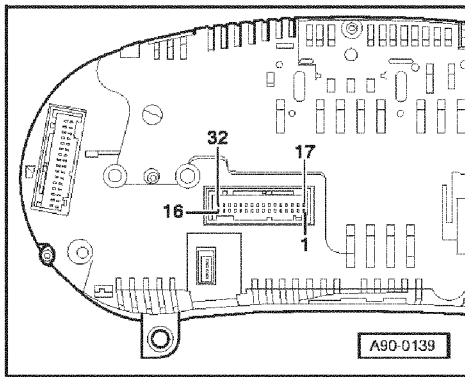


### Green 32-pin connector

- 1 - Door contact (all doors)
- 2 - Transponder 1
- 3 - Not used
- 4 - Not used
- 5 - W-wire
- 6 - Tailgate/boot lid
- 7 - Right turn signal indicator
- 8 - External buzzer
- 9 - External gong
- 10 - Airbag
- 11 - Standing time output
- 12 - Terminal 61
- 13 - Parking brake/BRAKE
- 14 - CHECK
- 15 - Oil level/oil temperature
- 16 - Not used



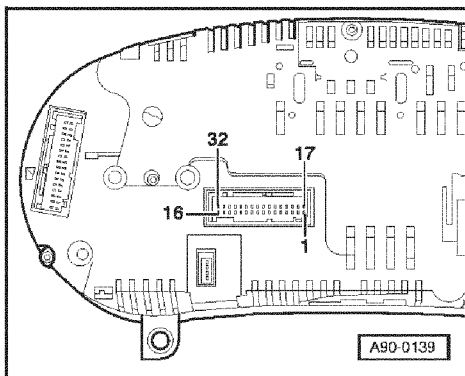
- 17 - Transponder 2
- 18 - CAN high speed (drive) (high +)
- 19 - CAN high speed (drive) (low -)
- 20 - CAN high speed (drive) (screen)
- 21 - ABS
- 22 - CAN low speed (convenience) (high +)
- 23 - CAN low speed (convenience) (low -)
- 24 - CAN low speed (convenience) (screen)
- 25 - Bonnet
- 26 - Filler neck compartment lid
- 27 - Belt buckle
- 28 - K-wire
- 29 - Ambient temperature input
- 30 - Not used
- 31 - Selector lever position display
- 32 - Not used



#### Grey 32-pin connector

- 1 - Menu switch
- 2 - Menu switch (out A)
- 3 - Menu switch (out B)
- 4 - Menu switch (enter)
- 5 - CAN high speed display (high +)
- 6 - CAN high speed display (low -)
- 7 - CAN high speed display (screen)
- 8 - Front passenger's door contact
- 9 - Rear right door contact
- 10 - Rear left door contact
- 11 - Enable
- 12 - Clock
- 13 - Data
- 14 - Brake light
- 15 - Washer fluid level
- 16 - Reversing light/dipped beam

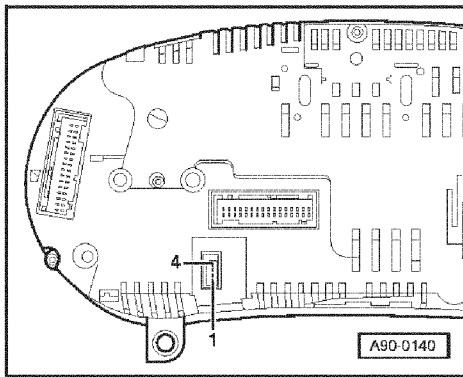
90-35



- 17 - On-board computer/left
- 18 - On-board computer/right
- 19 - On-board computer/reset
- 20 - Not used
- 21 - Not used
- 22 - Not used
- 23 - Control group 1/navigation
- 24 - Control group 2/navigation
- 25 - Telematics control group
- 26 - Not used
- 27 - Not used
- 28 - Not used
- 29 - Not used
- 30 - Not used
- 31 - Not used
- 32 - Not used

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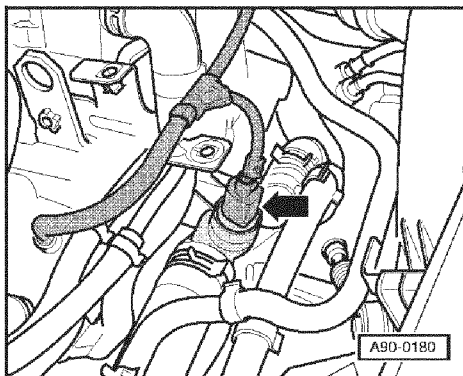
90-36



**Black, 4-pin connector for radio clock**

- 1 - Radio clock signal (data)
- 2 - Radio clock 5V
- 3 - Not used
- 4 - Radio clock earth

**Terminal assignment at coolant temperature sender - G2**

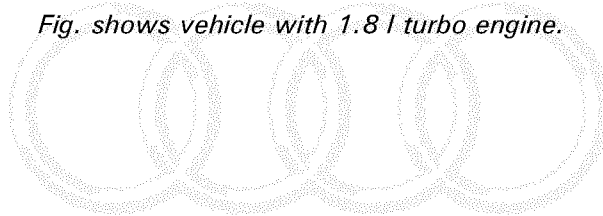


Coolant temperature sender is located at thermostat connection.

- Carefully release 4-pin connector -arrow- and unplug.

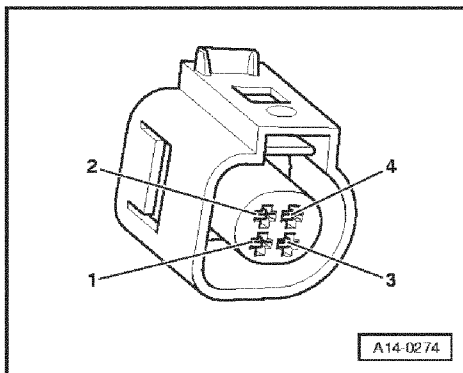
**Note:**

*Fig. shows vehicle with 1.8 l turbo engine.*



**Assignment of 4-pin connector at coolant temperature sender**

- 1 - Wiring between coolant temperature sender and dash panel insert (temperature gauge)
- 2 - Earth



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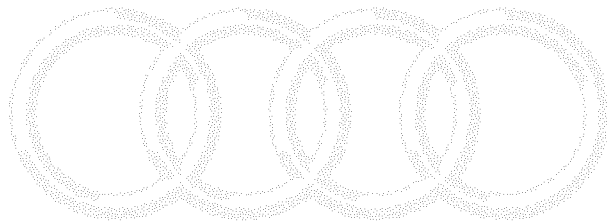
## Radio clock

**Note:**

*Aerial symbol at top left of clock display indicates that vehicle is fitted with radio clock.*

Radio clock is integrated into dash panel insert and is not available as a separate replacement part.

- If radio clock is defective, dash panel insert must be replaced  
=> Page 90-28.



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