

1 Comp. Loc. Relays

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1.1 Relays on E-box

- ◆ [⇒ o1.1.1 n E-Box, MY 2010", page 1](#)
- ◆ [⇒ o1.1.2 n E-Box, MY 2011", page 2](#)
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1.1.1 Relay on E-Box, MY 2010

R1 - Motronic engine control module power supply relay -J271- (100)

- ☐ Connection 1.1
- ☐ Engine codes CAVD, CAXA, CAWB, CCZA and CGGA

R1 - Terminal 30 power supply relay -J317- (458)

- ☐ Connection 1.1
- ☐ Engine codes BXE, CAYB, CAYC, CBDA, CBDB and CEGA

R1 - Simos control module power supply relay -J363- (458)

- ☐ Connection 1.1
- ☐ Engine codes BSE, BSF and CCSA

R2 - Secondary air pump relay -J299- (100)

- ☐ Connection 2.2
- ☐ Engine codes BSE, BSF and CCSA

R2 - Auxiliary engine coolant pump relay -J496- (100)

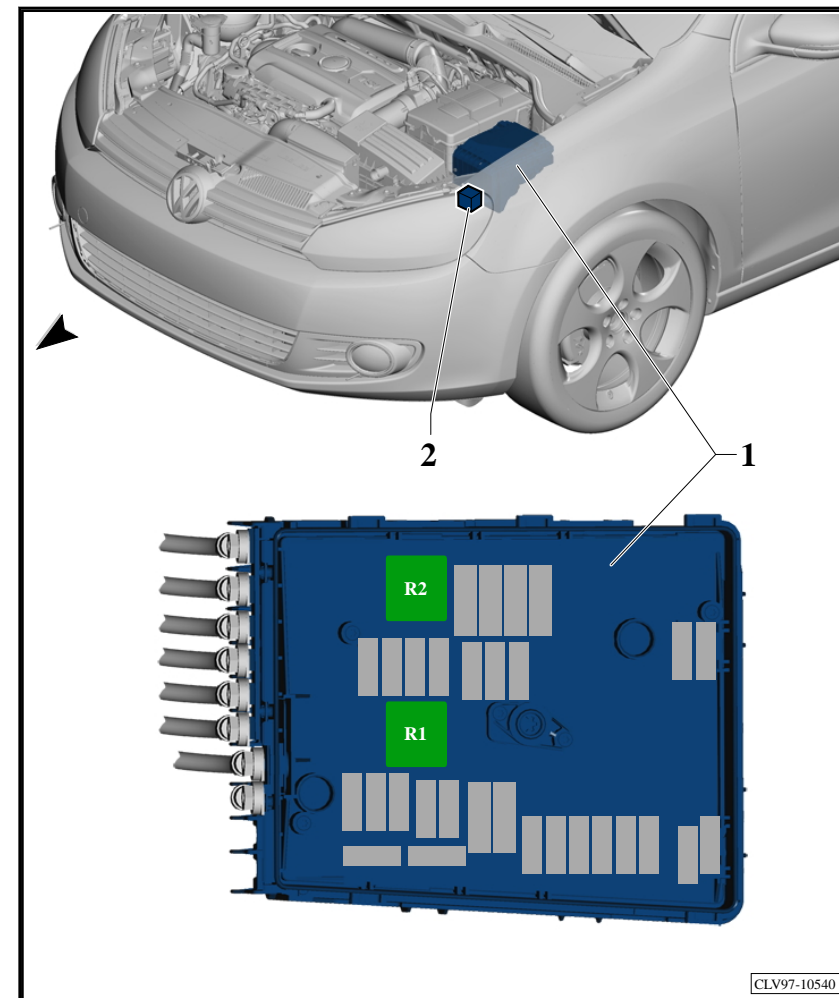
- ☐ Connection 2.2
- ☐ Engine codes CAVD and CAXA,

R2 - Engine component current supply relay -J757- (100)

- ☐ Connection 2.2
- ☐ Engine codes CAWD and CCZA

R2 - Connection bridge

- ☐ Connection 2.2
- ☐ Only diesel engines
- ☐ Engine codes BXE, CAYB, CAYC, CGGA, CBDA, CBDB and CEGA



1.1.2 Relay on E-Box, MY 2011



Note

The number in brackets behind the part designation denotes the control number on the housing.

R1 - Motronic engine control module power supply relay -J271- (100)

- ☐ Connection 1.1
- ☐ Engine codes CBTA, CBUA, CBZA, CBZB, CAVD, CAXA and CGGA

R1 - Terminal 30 power supply relay -J317- (458)

- ☐ Connection 1.1
- ☐ Engine codes CLCA, CFHC, CFHB, CJAA, CAYB and CAYC

R1 - Simos control module power supply relay -J363- (458)

- ☐ Connection 1.1
- ☐ Engine codes BSE, BSF, CCSA and CCCA.

R2 - Secondary air pump relay -J299- (100)

- ☐ Connection 2.2
- ☐ Engine codes CBTA, CBUA, CCCA, BSE, BSF and CCSA

R2 - Auxiliary engine coolant pump relay -J496- (100)

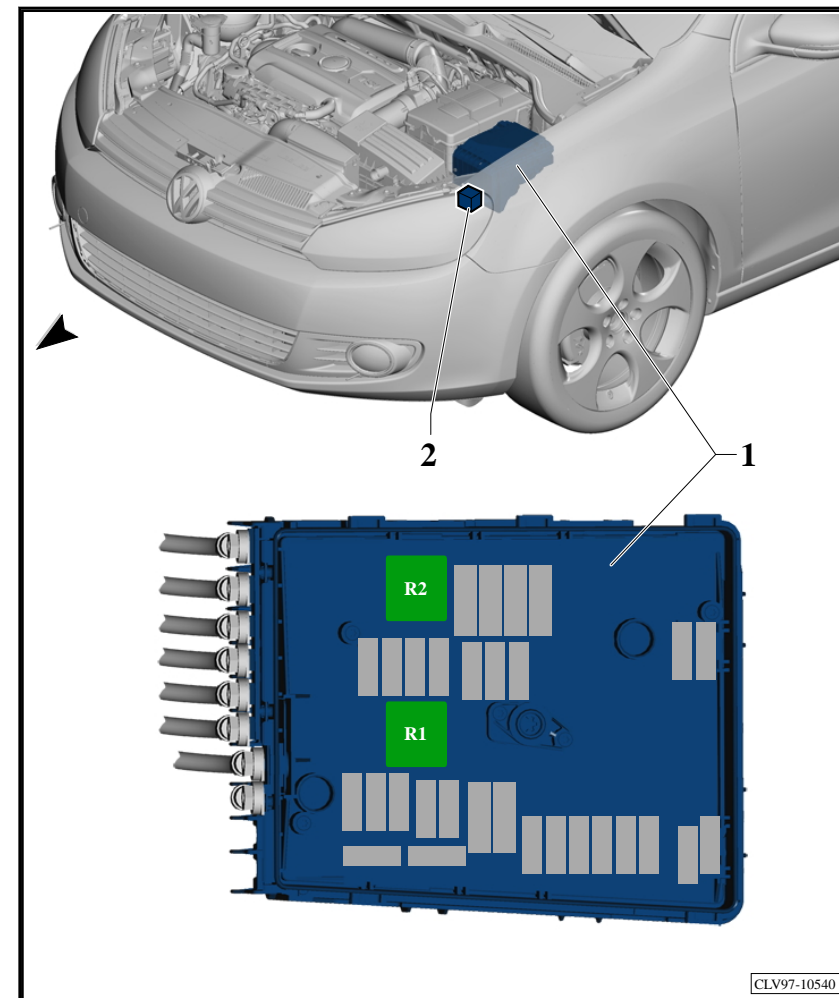
- ☐ Connection 2.2
- ☐ Engine codes CAVD, CAXA, CBZA and CBZB.

R2 - Engine component current supply relay -J757- (100)

- ☐ Connection 2.2
- ☐ Engine code CCZA

R2 - Connection bridge

- ☐ Connection 2.2
- ☐ Only diesel engines
- ☐ Engine codes CJAA, CAYB, CAYC and CGGA



1.1.3 Relay on E-Box, through late 2011 MY forward



Note

The number in brackets behind the part designation denotes the control number on the housing.

R1 - Motronic engine control module power supply relay -J271- (100)

- ☐ Connection 1.1
- ☐ Engine codes CBTA, CBUA, CBZA, CBZB, CAVD, CAXA, CCZA and CGGA

R1 - Terminal 30 power supply relay -J317- (100)

- ☐ Connection 1.1
- ☐ Engine codes CLCA, CFHC, CFHB, CJAA, CAYB and CAYC

R1 - Simos control module power supply relay -J363- (458)

- ☐ Connection 1.1
- ☐ Engine codes BSE, BSF, CCSA and CCCA

R2 - Secondary air pump relay -J299- (100)

- ☐ Connection 2.2
- ☐ Engine codes CBTA, CBUA, CCCA, BSE, BSF and CCSA

R2 - Auxiliary engine coolant pump relay -J496- (100)

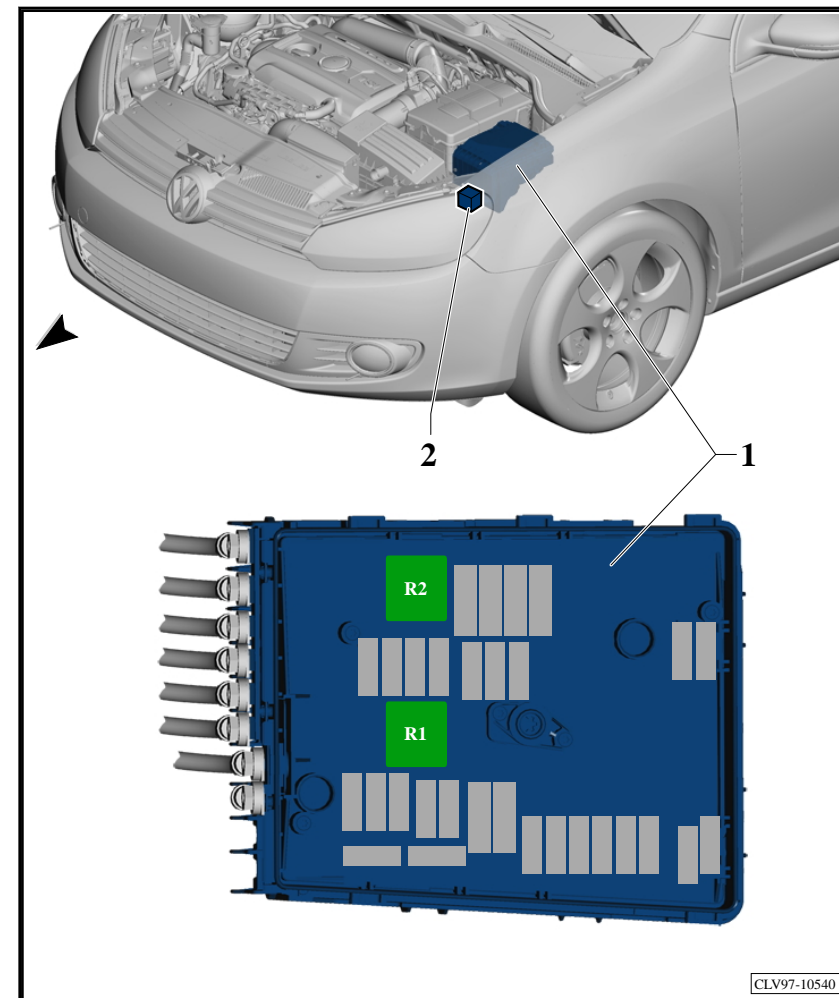
- ☐ Connection 2.2
- ☐ Engine codes CAVD, CAXA, CBZA and CBZB.

R2 - Engine component current supply relay -J757- (100)

- ☐ Connection 2.2
- ☐ Engine code CCZA

R2 - Connection bridge

- ☐ Connection A2
- ☐ Only diesel engines
- ☐ Engine codes CFHB, CFHC, CLCA, CJAA, CAYB, CAYC and CGGA



1.2 Relays on upper Vehicle Electrical Module

- ◆ [⇒ o1.2.1 n upper Vehicle Electrical Module -J519-, MY 2010", page 5](#)
- ◆ [⇒ o1.2.2 n upper Vehicle Electrical Module -J519-, MY 2011", page 6](#)
- ◆ [⇒ R1.2.3 elay on upper Vehicle Electrical Module -J519-, through late 2011 MY and forward", page 7](#)

1.2.1 Relay on upper Vehicle Electrical Module -J519- , MY 2010



Note

-J4- is a mini-relay

1 - Terminal 15 power supply relay -J329- (645)

☐ Connection 1

2 - Terminal 75 power supply relay 1 -J680- (644)

☐ Connection 2

3 - Dual tone horn relay -J4- (646)

☐ Connection 3.1

3 - Headlamp washer system relay -J39- (646)

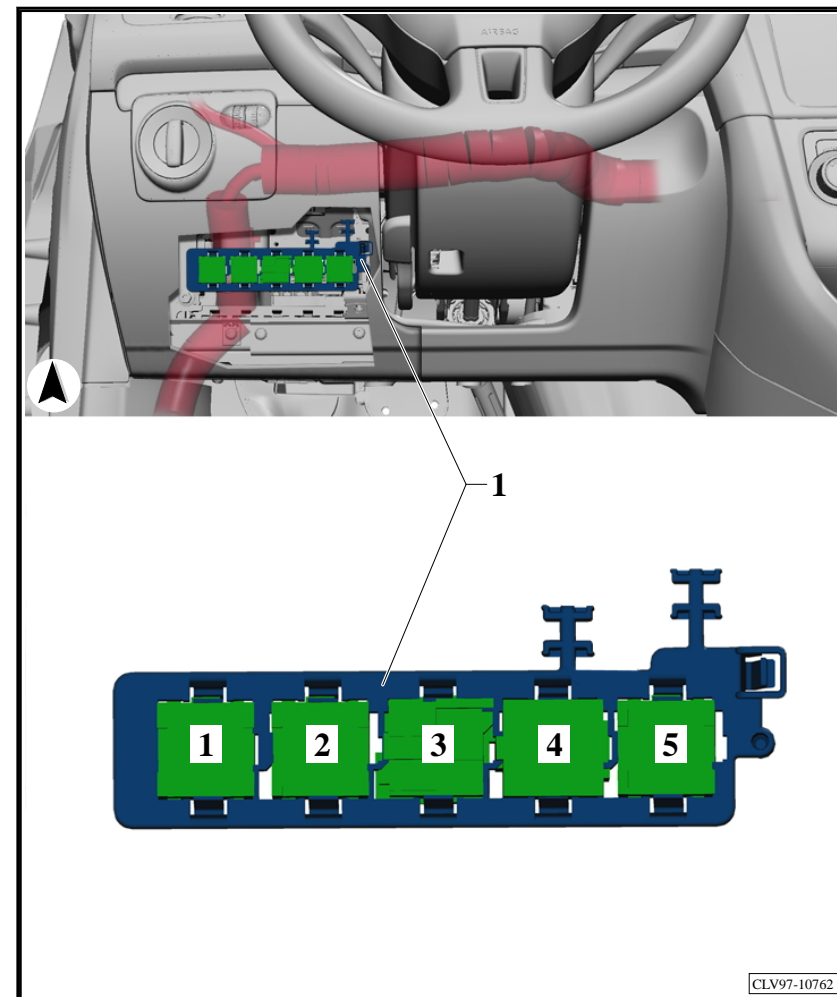
☐ Connection 3.2

4 - Rear window defogger relay -J9- (645)

☐ Connection 4

5 - Terminal 50 power supply relay -J682- (645)

☐ Connection 5



CLV97-10762

1.2.2 RelayRelay on upper Vehicle Electrical Module -J519-, MY 2011



Note

-J4- is a mini-relay

1 - Terminal 15 power supply relay -J329- (645)

❑ Connection 1

2 - Terminal 75 power supply relay 1 -J680- (644)

❑ Connection 2

3 - Dual tone horn relay -J4- (646)

❑ Connection 3.1

3 - Headlamp washer system relay -J39- (646)

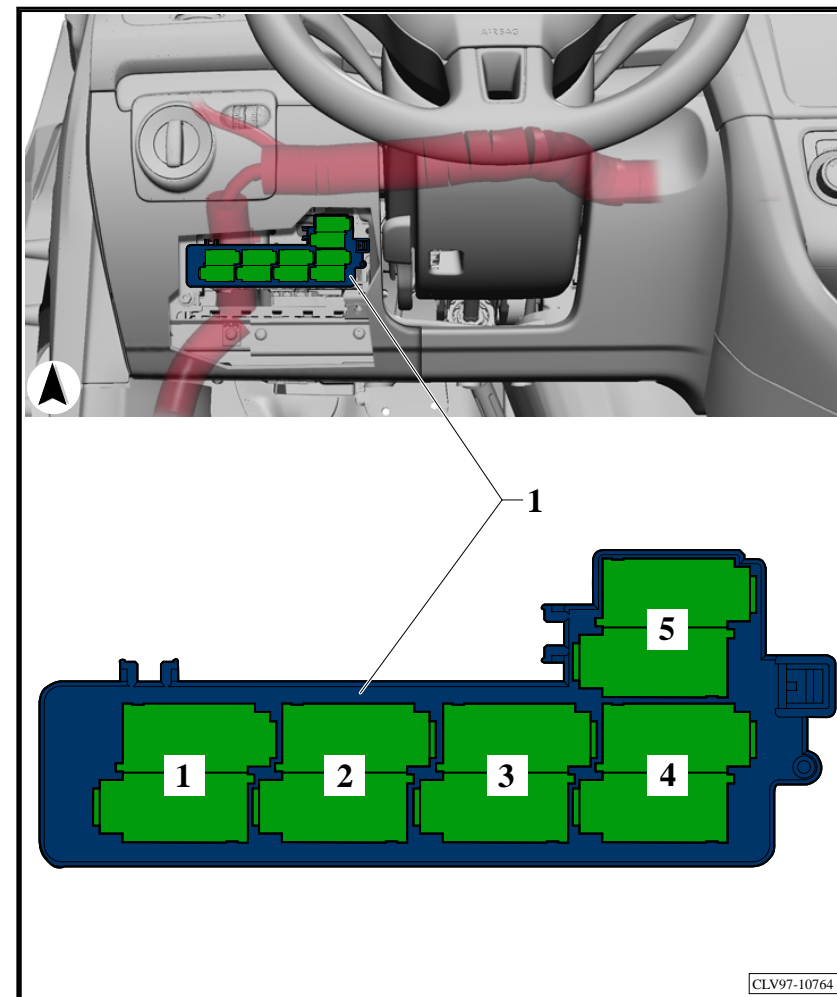
❑ Connection 3.2

4 - Rear window defogger relay -J9- (645)

❑ Connection 4

5 - Terminal 50 power supply relay -J682- (645)

❑ Connection 5



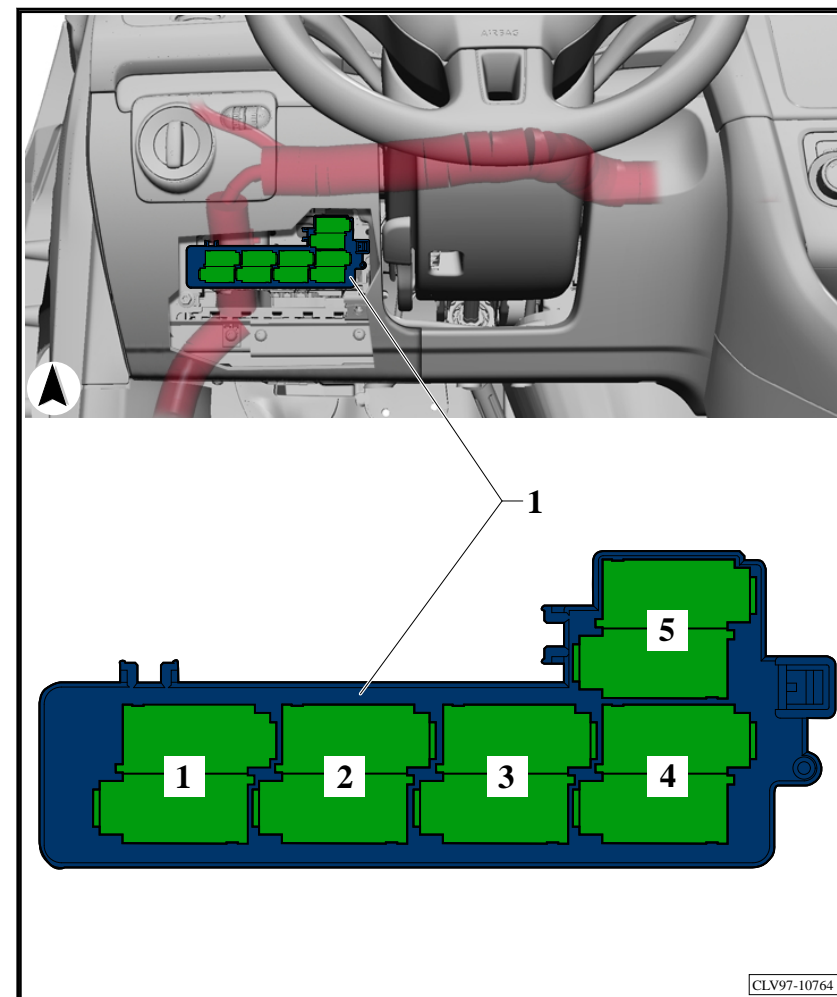
1.2.3 Relay Relay on upper Vehicle Electrical Module -J519-, through late 2011 MY and forward



Note

-J4- is a mini-relay and is located on the relay connector panel

- 1 - Terminal 15 power supply relay -J329- (645)
 - ☐ Connection 1
- 2 - Terminal 50 power supply relay -J682- (645), Production Change
 - ☐ Connection 2
- 2 - Starter relay 1 -J906- (645)
 - ☐ Connection 2
- 3 - Dual tone horn relay -J4- (646)
 - ☐ Connection 3.1
- 3 - Headlamp washer system relay -J39- (646)
 - ☐ Connection 3.2
- 4 - Rear window defogger relay -J9- (645), Production Change
 - ☐ Connection 4
- 4 - Terminal 50 power supply relay -J682- (645), Production Change
 - ☐ Connection 4
- 5 - Terminal 75 power supply relay 1 -J680- (644)
 - ☐ Connection 5



1.3 Relays on lower Vehicle Electrical Module

- ◆ ⇒ [b1.3.1 elow J519 module, MY 2010 ", page 8](#)
- ◆ ⇒ [b1.3.2 elow J519 module, MY 2011", page 10](#)
- ◆ ⇒ [b1.3.3 elow J519 module, through late 2011 MY forward", page 12](#)

1.3.1 Relay below J519 module, MY 2010



Note

- ◆ *The number in brackets behind the part designation denotes the control number on the housing.*
- ◆ *-J17,-J832 -J151 and -J757 are mini-relaysare mini-relays*

1 - Fuel pump relay -J17- (646)

- ☐ Connection 1

1 - Fuel pump relay 2 -J49- (646)

- ☐ Connection 1

1 - Coolant circulation pump relay -J151- (646)

- ☐ Connection 1
- ☐ Engine code CCZA

1 - Terminal 50 power supply relay -J682- (646)

- ☐ Connection 1

1 - Engine component current supply relay -J757- (646)

- ☐ Connection 1

2 - Fuel pump relay -J17- (646)

- ☐ Connection 2

2 - Fuel primer relay -J643- (646)

- ☐ Connection 2

3 - Low heat output relay -J359- (645)

- ☐ Connection 3

3 - Auxiliary heater operation relay -J485- (645)

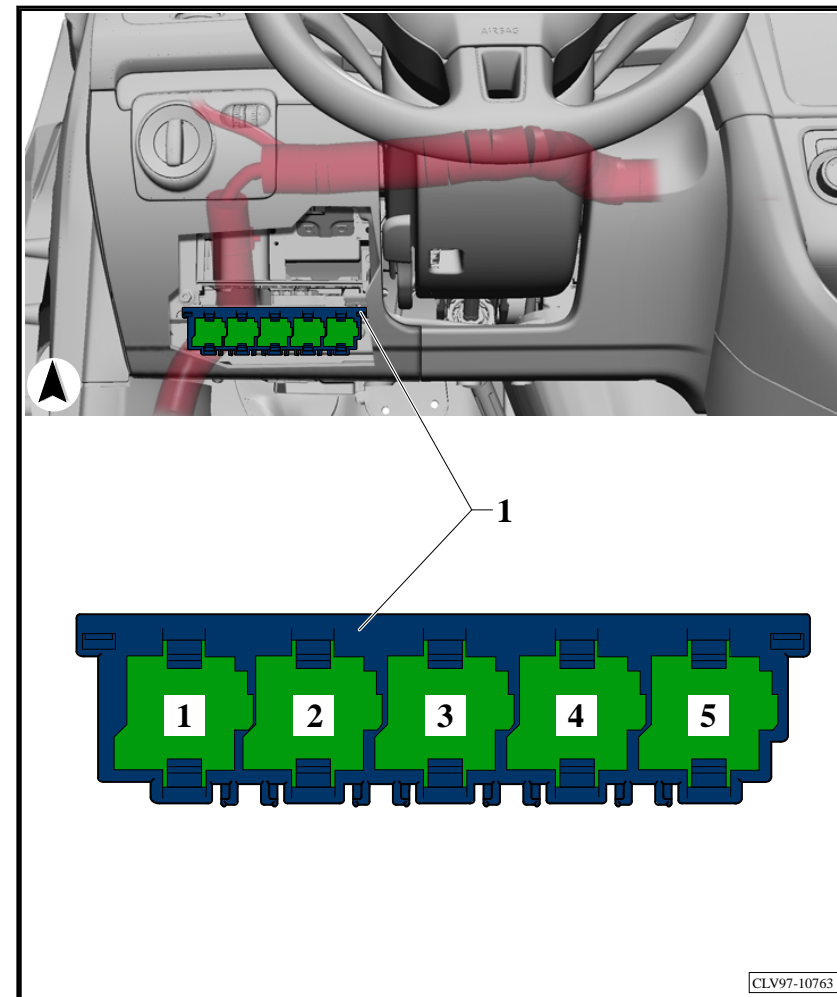
- ☐ Connection 3

4 - Auxiliary fuel pump relay -J832- (645)

- ☐ Connection 4

5 - Fresh air blower relay -J13-

- ☐ Connection 5



1.3.2 Relay below J519 module, MY 2011



Note

- ◆ -J4-, -J17-, -J49, -J643, J832 are mini-relays
- ◆ The number in brackets behind the part designation denotes the control number on the housing.

1 - Auxiliary fuel pump relay -J832- (646)

- ☐ Connection 1.1
- ☐ Engine codes CCZA, CFHB, CFHC and CLCA

1 - Coolant circulation pump relay -J151- (646)

- ☐ Connection 1.2
- ☐ Engine code CCZA,

1 - Starter relay 2 -J907- (507)

- ☐ Connection 1

2 - Fuel pump relay -J17- (646)

- ☐ Connection 2
- ☐ Engine codes CGGA, BSE, BSF, CCSA, CBTA, CBUA, CCCA, CAYB, CAYC, CFHB, CFHC and CLCA

2 - Fuel pump relay 2 -J49- (646)

- ☐ Connection 2.2
- ☐ Engine codes BSE, BSF, CAYB, CAYC, CCSA, CFHB, CFHC, CGGA and CLCA

2 - Fuel primer relay -J643- (646)

- ☐ Connection 2.2
- ☐ Engine codes CBTA, CBUA and CCCA

2 - Auxiliary fuel pump relay -J832- (646)

- ☐ Connection 2.2
- ☐ Engine code CJAA

3 - Low heat output relay -J359- (645)

- ☐ Connection 3

3 - Fresh air blower relay -J13- (646)

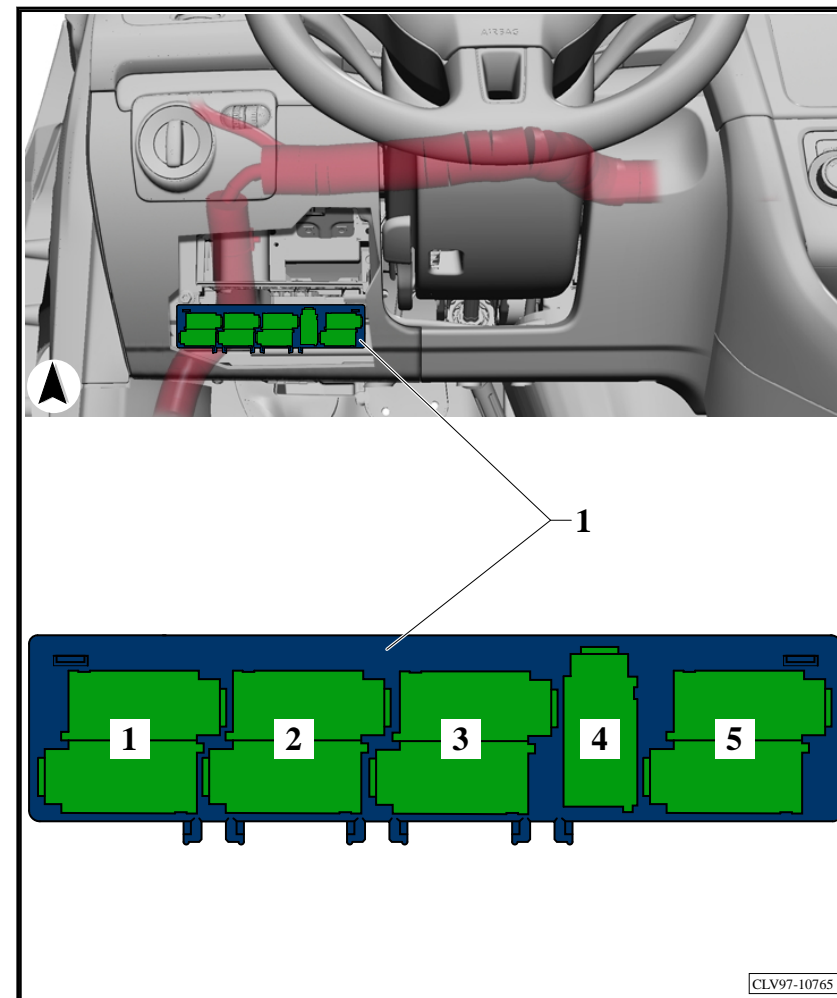
- ☐ Connection 3

4 - Auxiliary heater operation relay -J485- (645)

- ☐ Connection 4

5 - High heat output relay -J360- (644)

- ☐ Connection 5



1.3.3 Relay below J519 module, through late 2011 MY forward



Note

The number in brackets behind the part designation denotes the control number on the housing.

1 - Auxiliary fuel pump relay -J832- (646)

- ☐ Connection 1
- ☐ Engine codes CCZA, CFHB, CFHC and CLCA

1 - Starter relay 2 -J907- (507)

- ☐ Connection 1

1 - Terminal 50 power supply relay -J682- (507)

- ☐ Connection 1

2 - Fuel pump relay -J17- (646)

- ☐ Connection 2.1

2 - Fuel pump relay 2 -J49- (646)

- ☐ Connection 2.2
- ☐ Engine codes BSE, BSF, CAYB, CAYC, CCSA, CFHB, CFHC, CGGA and CLCA

2 - Fuel primer relay -J643- (646)

- ☐ Connection 2.2
- ☐ Engine codes CBTA, CBUA, CCCA and CGGA.

3 - Low heat output relay -J359- (645)

- ☐ Connection 3

3 - Auxiliary heater operation relay -J485- (645)

- ☐ Connection 3

4 - Auxiliary fuel pump relay -J832- (645)

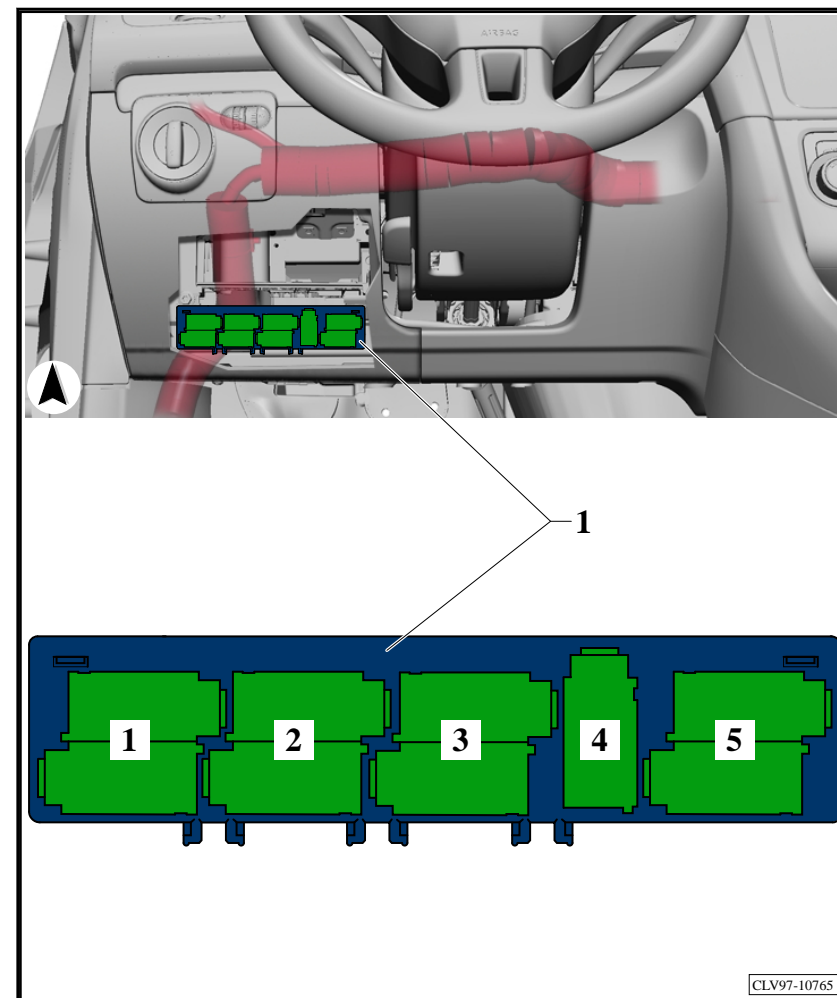
- ☐ Connection 4

5 - High heat output relay -J360- (644)

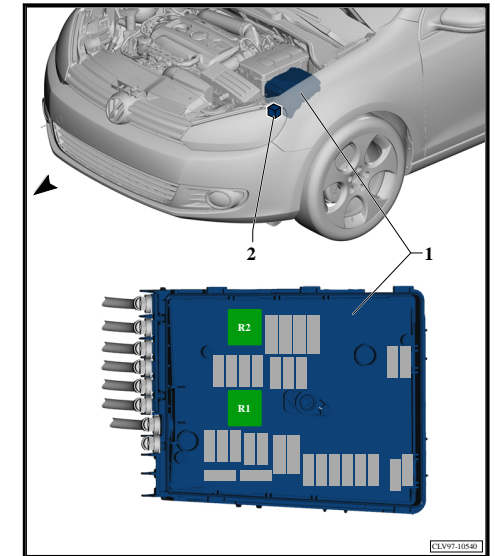
- ☐ Connection 5

5 - Fresh air blower relay -J13- (646)

- ☐ Connection 5



1.4 Relays on Auxiliary Relay Carrier



2 - Automatic glow time control module -J179- 2- (457)