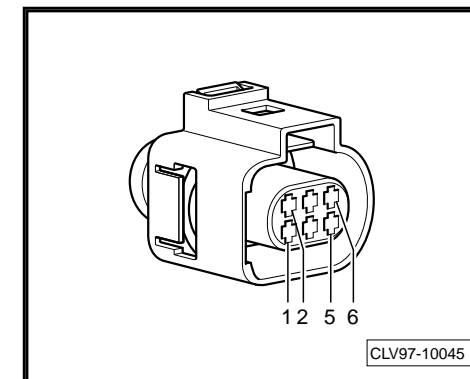


1 Conn. Views Engine

1.1 EGR vacuum regulator solenoid valve -N18-

EGR potentiometer -G212-

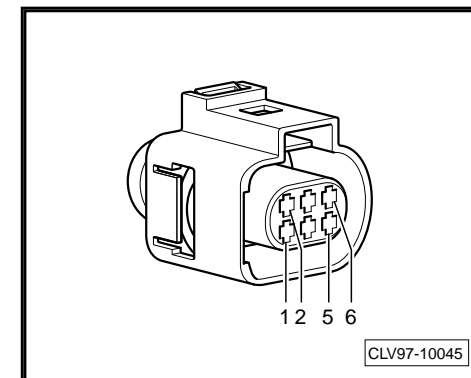


Cavity	Function	Cavity	Function
1	5 Volts, power	4	...
2	Solenoid valve, ground	5	Potentiometer, signal
3	Potentiometer, ground	6	Solenoid valve, power

1.2 Valve 2 for EGR -N213-

Fuel quality sensor -G446-

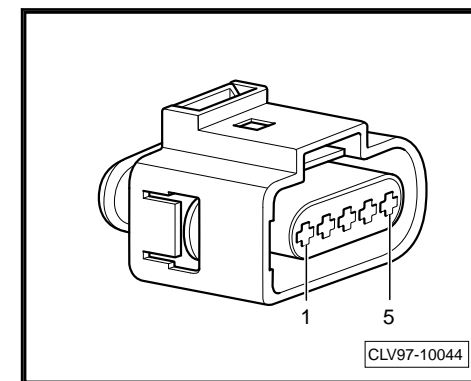
6-pin connector -T6at-



Cavity	Function	Cavity	Function
1	5 Volts, power	4	...
2	Solenoid valve, ground	5	Potentiometer, signal
3	Potentiometer, ground	6	Solenoid valve, power

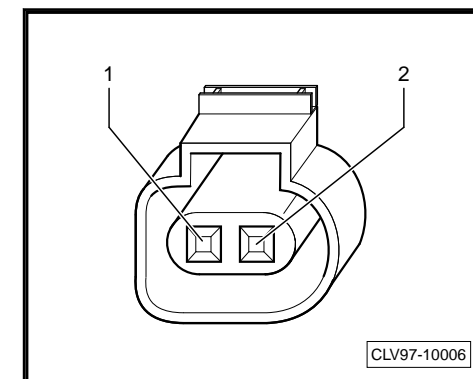
1.3 Intake flap motor -V157-

Intake manifold runner position sensor -G336-



Cavity	Function	Cavity	Function
1	5 Volts, power	4	Solenoid valve, ground
2	Potentiometer, signal	5	Solenoid valve, power
3	Potentiometer, ground		

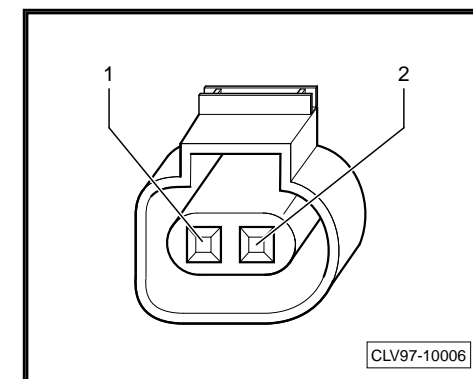
1.4 EGR temperature sensor -G98-



Cavity	Function
1	Ground
2	Signal +

1.5 Exhaust gas temperature sensor 4 -G648-

Double connector -T2bc-

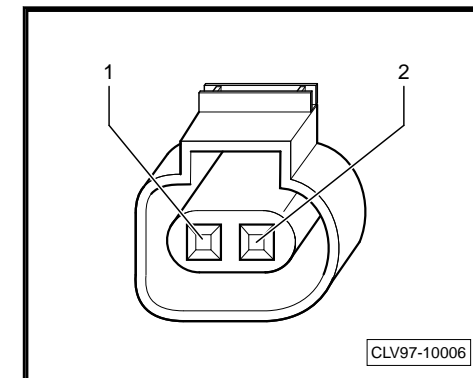


Cavity	Function
1	Ground

Cavity	Function
2	Signal +

1.6 Exhaust gas temperature sensor 1 -G235-

Double connector -T2bz-

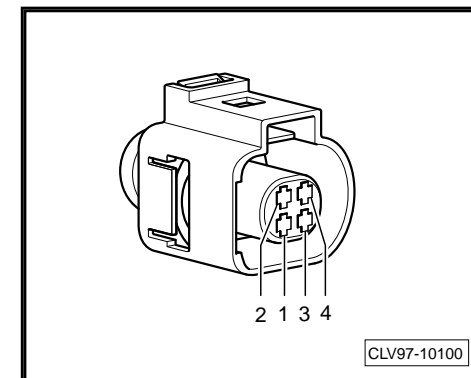


Cavity	Function
1	Ground
2	Signal +

1.7 Brake lamp switch -F-

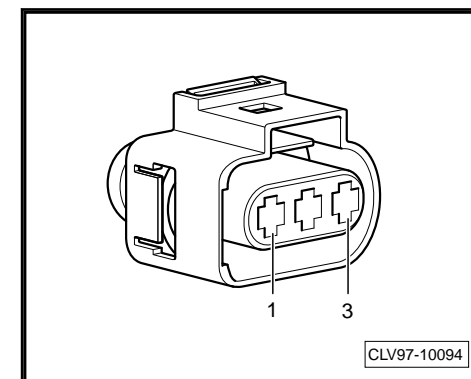
Brake pedal switch -F47-

4-pin connector -T4y-



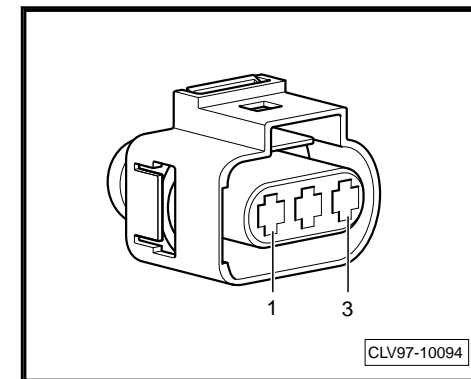
Cavity	Function
1	Signal, output
2	Ground, sensor
3	Signal, output
4	Power, sensor

1.8 Exhaust pressure sensor 1 -G450-



Cavity	Function
1	5 volt, sensor
2	Ground, sensor
3	Signal, sensor

1.9 Differential pressure sensor -G505-

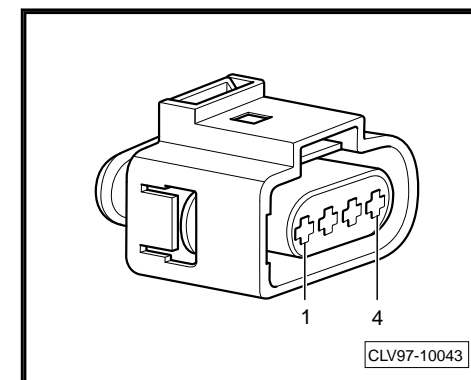


Cavity	Function
1	5 volt, sensor
2	Ground, sensor
3	Signal, sensor

1.10 Charge air pressure sensor -G31-

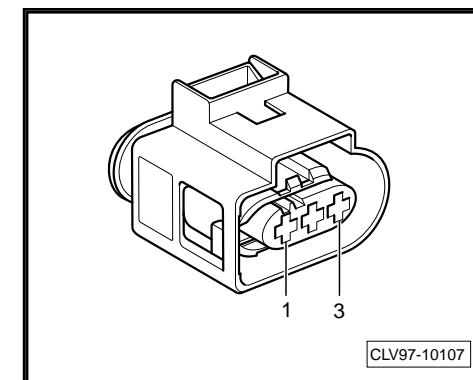
Intake air temperature sensor -G42-

4-pin connector -T4bw-



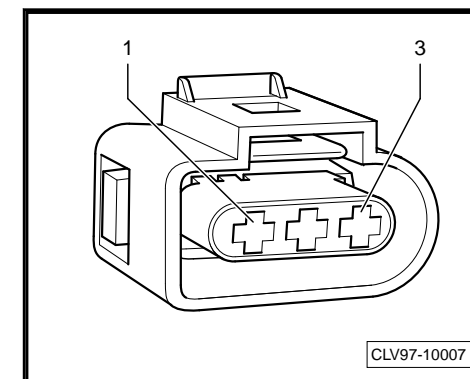
Cavity	Function	Cavity	Function
1	Ground	3	5 volt
2	Signal, temperature sensor	4	Signal, sensor

1.11 Fuel pressure sensor -G247-



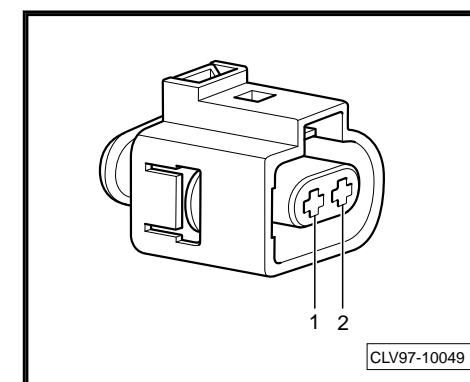
Cavity	Function
1	Ground, sensor
2	Signal, sensor
3	5 volt, sensor

1.12 Engine speed sensor -G28-



Cavity	Function
1	5 volt, sensor
2	Signal, sensor
3	Ground, sensor

1.13 Wastegate bypass regulator valve -N75-



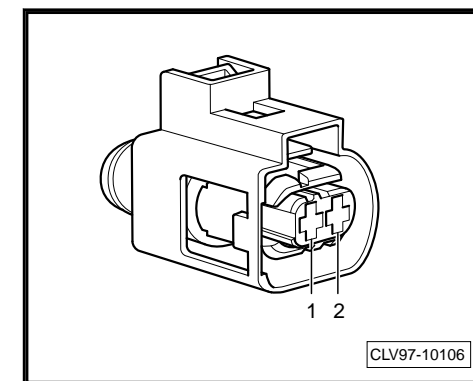
Cavity	Function
1	Power
2	Ground

1.14 Fuel injectors

♦ ⇒ [e1.14.1 engines", page 9](#)

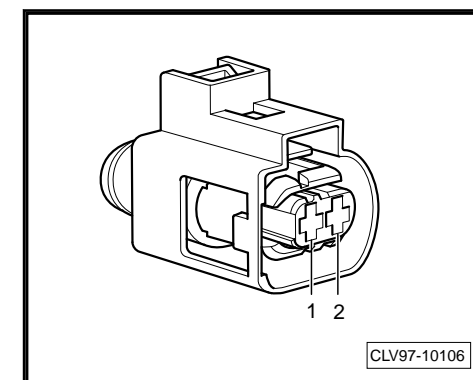
♦ ⇒ [e1.14.2 engines", page 9](#)

1.14.1 TDI engines



Cavity	Function
1	Ground
2	Power

1.14.2 2.5L engines

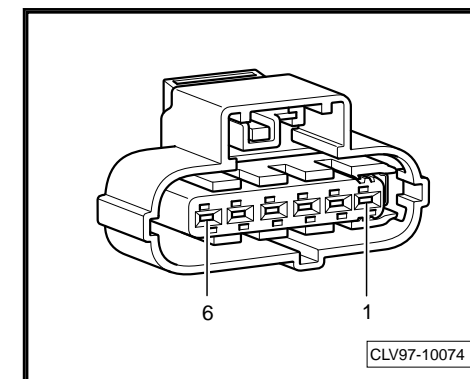


Cavity	Function
1	Power
2	Ground

1.15 Accelerator pedal position sensor 2 -G185-

Accelerator pedal position sensor -G79-

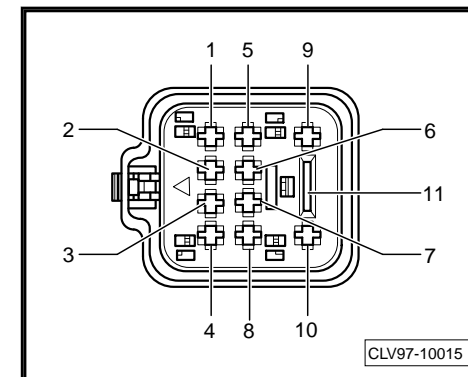
6-pin connector -T6h-



Cavity	Function	Cavity	Function
1	5 volt, sensor 2	4	Signal, sensor 1
2	5 volt, sensor 1	5	Ground, sensor 2
3	Ground, sensor 2	6	Signal, sensor 2

1.16 Automatic glow time control module -J179-

11-pin connector -T11b-

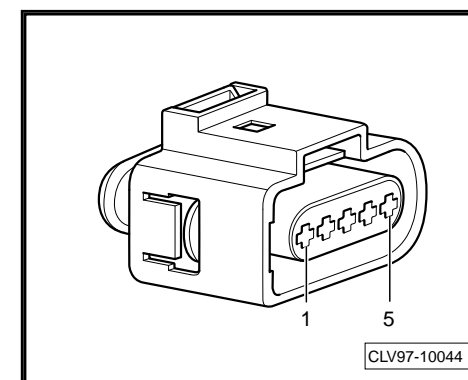


Cavity	Function	Cavity	Function
G1	Glow 1, power	DT	Signal, Diagnoses
G2	Glow 2, power	ST	Signal, Control
G3	Glow 3, power	30	Voltage Supply
G4	Glow 4, power	10	...
87	Signal (+), Sensor	11	...
31	Ground, Sensor		

1.17 Mass airflow sensor -G70-

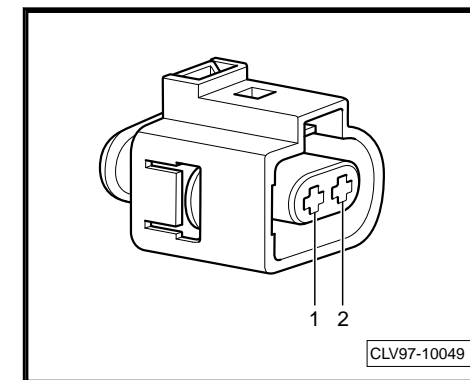
TDI engine

5-pin connector -T5d-



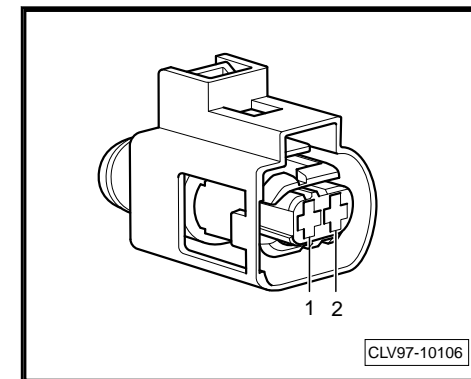
Cavity	Function	Cavity	Function
1	Signal, sensor (Air-mass)	4	Ground, Sensor
2	Signal, sensor (temperature)	5	Voltage Supply
3	. . .		

1.18 Positive crankcase ventilation heating element -N79-



Cavity	Function
1	Power
2	Ground

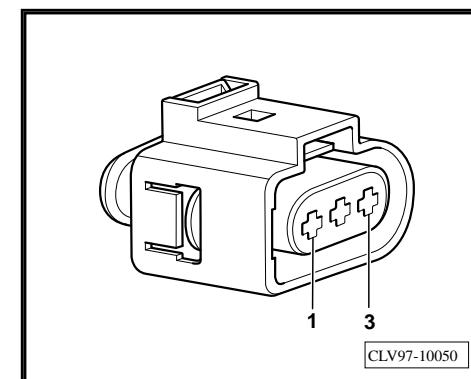
1.19 Fuel pressure regulator valve -N276-



Cavity	Function
1	Ground
2	Power

1.20 Camshaft position sensor -G40-

3-pin connector -T3q-

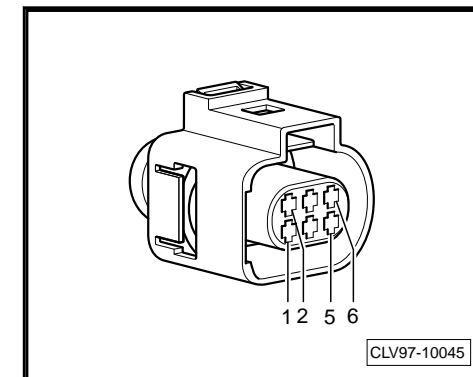


Cavity	Function
1	5 Volt, Sensor
2	Signal, Sensor
3	Ground, sensor

1.21 Heated oxygen sensor -G39-

Oxygen sensor heater -Z19-

6-pin connector -T6w-



Cavity	Function	Cavity	Function
1	Voltage Supply	4	Heater, Voltage (H+)
2	Ground, Sensor	5	Trim Current (RT)
3	Heater, Ground (H -)	6	Voltage, sensor (RE+)

1.22 Oxygen sensor after three way catalytic converter -G130-

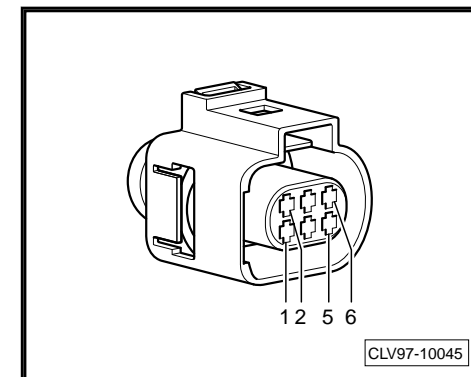
Heater for oxygen sensor 1 after catalytic converter -Z29-

♦ [⇒ e1.22.1 ngine", page 14](#)

♦ [⇒ e1.22.2 ngines", page 15](#)

1.22.1 TDI engine

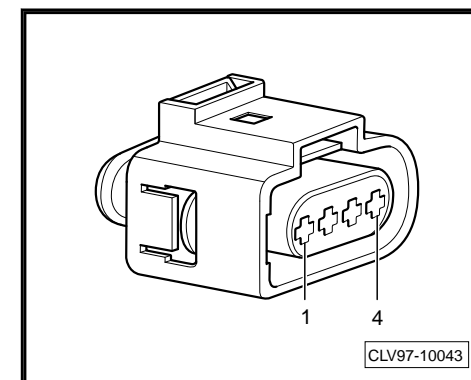
6-pin connector -T6af-



Cavity	Function	Cavity	Function
1	Voltage Supply	4	Heater, Voltage (H+)
2	Ground, Sensor	5	Trim Current (RT)
3	Heater, Ground (H -)	6	Voltage, sensor (RE+)

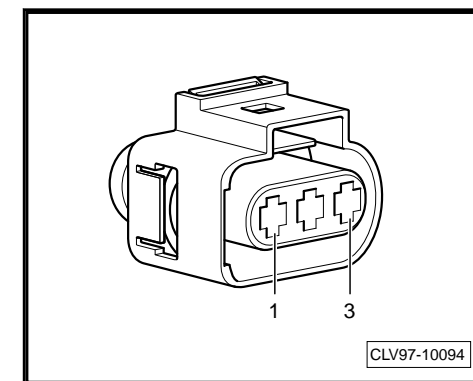
1.22.2 2.5L engines

4-pin connector -T4ao-



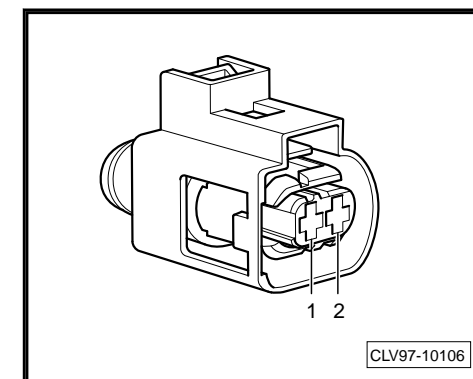
Cavity	Function	Cavity	Function
1	Heater, Voltage (H+)	3	Ground, Sensor
2	Heater, Ground (H -)	4	Signal, Sensor

1.23 Charge pressure actuator position sensor -G581-



Cavity	Function
1	Ground, sensor
2	Signal, Sensor
3	5 Volt, Sensor

1.24 Fuel metering valve -N290-



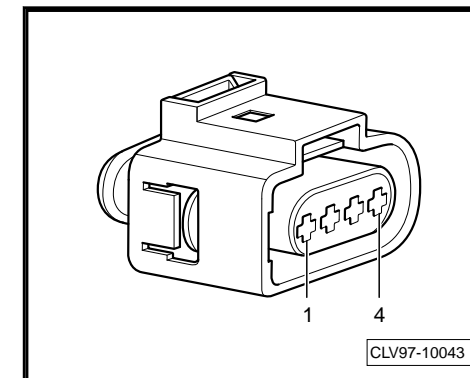
Cavity	Function
1	Ground
2	Power

1.25 Throttle valve control module -J338-

♦ ⇒ [e1.25.1 engine", page 17](#)

♦ ⇒ [e1.25.2 engines", page 17](#)

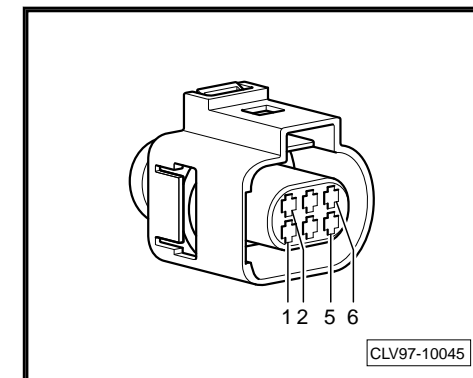
1.25.1 TDI engine



Cavity	Function	Cavity	Function
1	Ground, sensor	3	PWM signal, sensor
2	Voltage supply, sensor	4	Signal status, sensor

1.25.2 2.5L engines

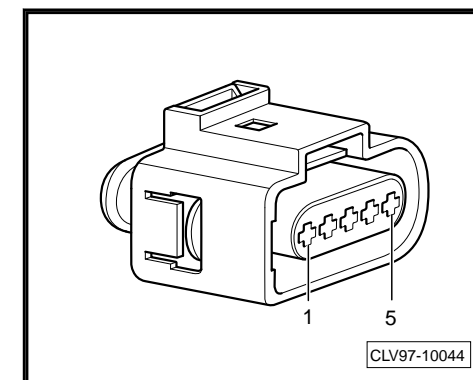
6-pin connector -T6x-



Cavity	Function	Cavity	Function
1	Signal monitor, sensor 2	4	Signal monitor, sensor 1
2	Signal (+), sensor 1+2	5	Ground, motor
3	Voltage Supply, motor	6	Signal (-), sensor 1+2

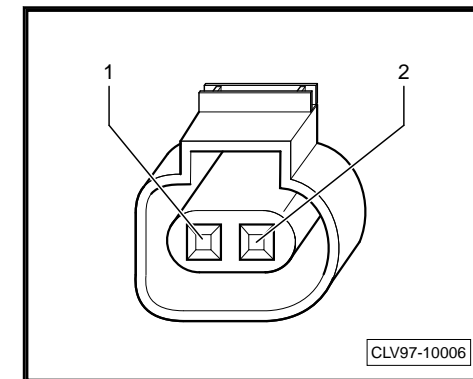
1.26 Exhaust door control unit -J883-

5-pin connector -T5s-



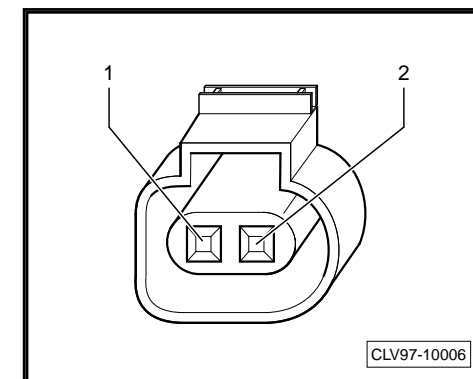
Cavity	Function	Cavity	Function
1	5 volt, power	4	Motor +
2	Sensor, signal	5	Motor -
3	Ground		

1.27 Engine coolant temperature sensor on radiator -G83-



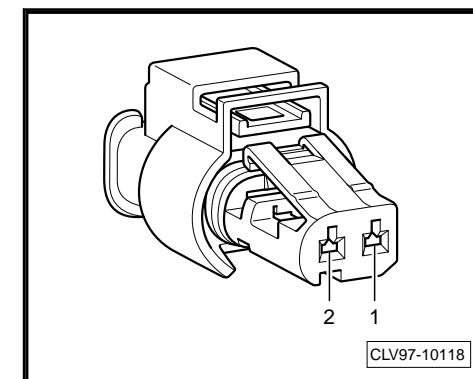
Cavity	Function
1	Signal input, sensor
2	Signal output, sensor

1.28 Engine coolant temperature sensor -G62-



Cavity	Function
1	Signal input, sensor
2	Signal output, sensor

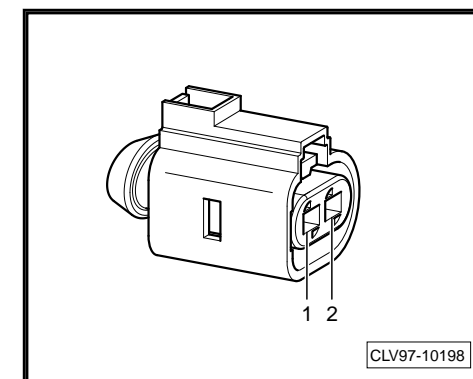
1.29 Fuel temperature sensor -G81-



Cavity	Function
1	Ground, sensor
2	Signal, sensor

1.30 Exhaust gas temperature sensor 3 -G495-

Double connector -T2bb-

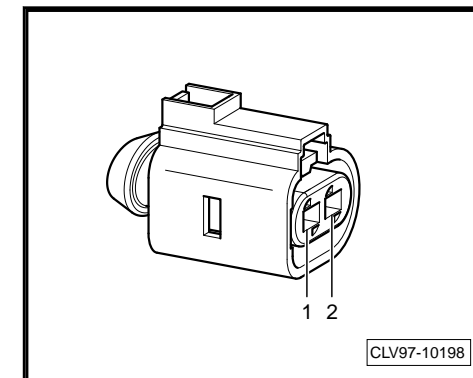


Cavity	Function
1	Ground, sensor

Cavity	Function
2	Signal, sensor

1.31 Exhaust gas temperature sensor 2 -G448-

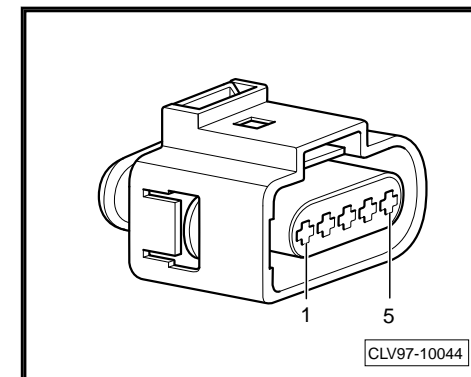
Double connector -T2ba-



Cavity	Function
1	Ground, sensor
2	Signal, sensor

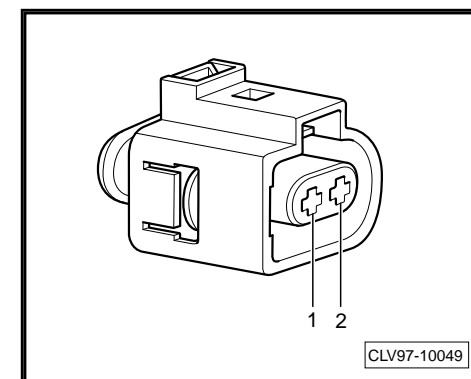
1.32 Clutch position sensor -G476-

5-pin connector -T5m-



Cavity	Function	Cavity	Function
1	Ground, sensor	4	Signal, Interlock
2	Signal, GRA	5	Power, sensor
3	...		

1.33 EVAP canister purge regulator valve 1 -N80-



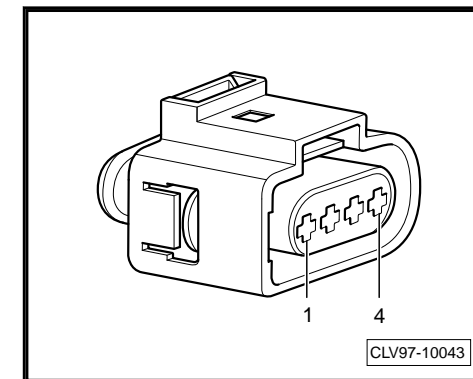
Cavity	Function
1	Power, sensor
2	Ground, sensor

1.34 Secondary air injection sensor 1 -G609-

♦ ⇒ "1.34.1, page 23

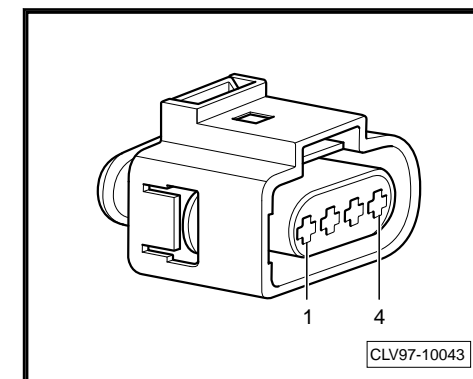
1.34.1 4-pin

4-pin connector -T4aw-



Cavity	Function	Cavity	Function
1	Ground	3	5 Volt, Sensor
2	...	4	Signal

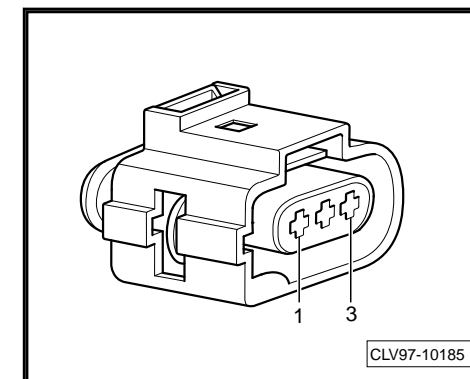
1.35 Manifold absolute pressure sensor -G71-



Cavity	Function	Cavity	Function
1	Ground	3	Power

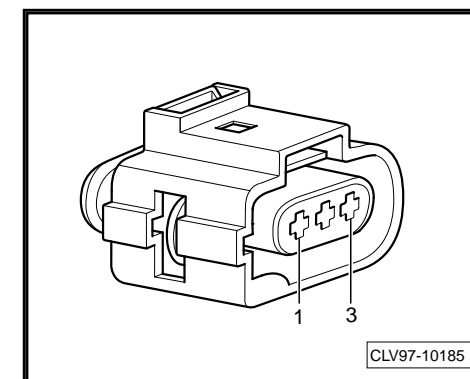
Cavity	Function	Cavity	Function
2	Signal, temperature sensor	4	Signal, MAP sensor

1.36 Knock sensor 1 -G61-



Cavity	Function
1	Power supply, Sensor
2	Ground, Sensor
3	Monitor, sensor

1.37 Knock sensor 2 -G66-

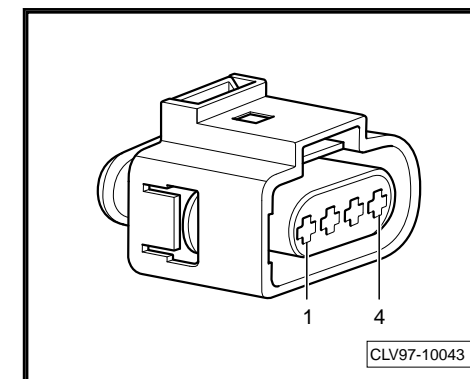


Cavity	Function	Cavity	Function
1	Power supply, Sensor	3	Monitor, sensor
2	Ground, Sensor		

1.38 Oxygen sensor in bank 1 center three way catalytic converter -G465-

Oxygen sensor 3 heater -Z62-

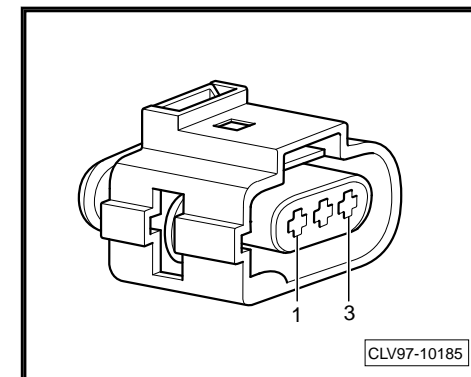
4-pin connector -T4v-



Cavity	Function	Cavity	Function
1	Heater, Voltage (H+)	3	Ground, Sensor
2	Heater, Ground (H -)	4	Signal, Sensor

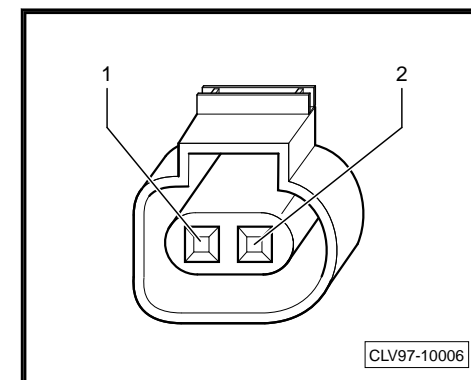
1.39 Leak detection pump -V144-

3-pin connector -T3d-



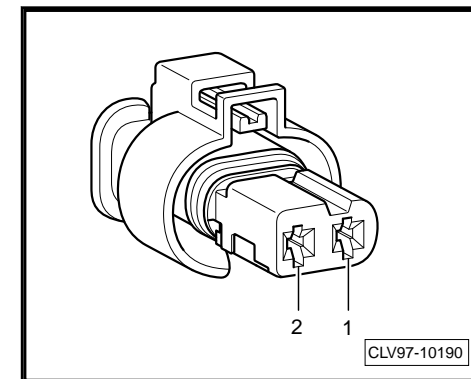
Cavity	Function	Cavity	Function
1	Signal, Sensor	3	Power supply
2	Ground		

1.40 Camshaft adjustment valve 1 -N205-



Cavity	Function
1	Ground
2	Power

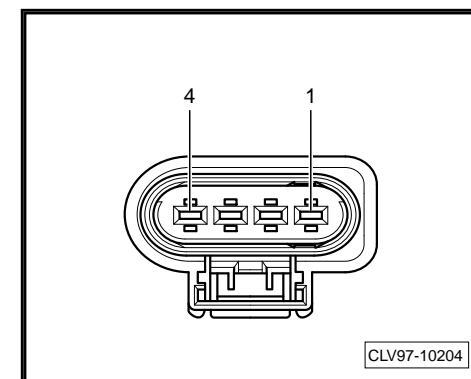
1.41 Secondary air injection solenoid valve -N112-



Cavity	Function
1	Power
2	Ground

1.42 Ignition coil 1 with power output stage -N70-

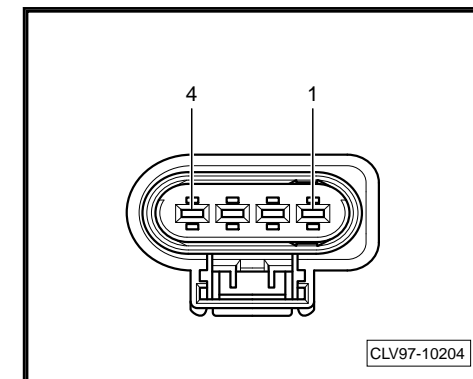
4-pin connector -T4af-



Cavity	Function	Cavity	Function
1	Power	3	Module ground
2	Chassis ground	4	Coil ground

1.43 Ignition coil 2 with power output stage -N127-

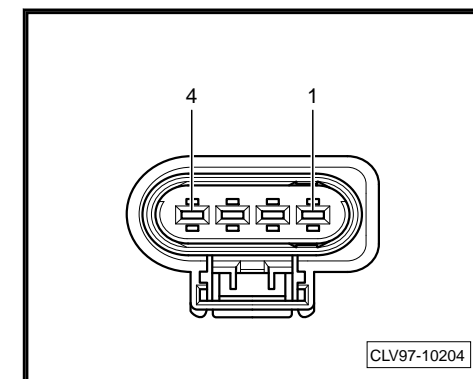
4-pin connector -T4ag-



Cavity	Function	Cavity	Function
1	Power	3	Module ground
2	Chassis ground	4	Coil ground

1.44 Ignition coil 3 with power output stage -N291-

4-pin connector -T4ah-

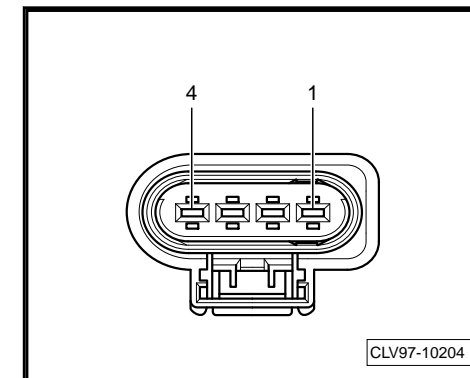


Cavity	Function	Cavity	Function
1	Power	3	Module ground

Cavity	Function	Cavity	Function
2	Chassis ground	4	Coil ground

1.45 Ignition coil 4 with power output stage -N292-

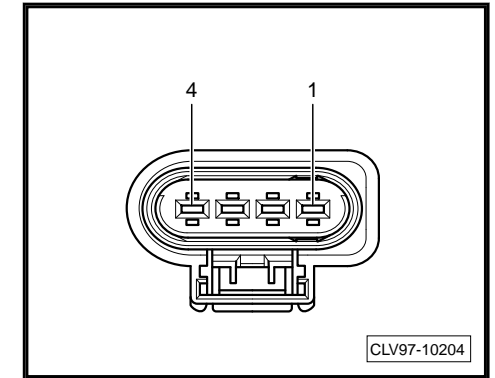
4-pin connector -T4ai-



Cavity	Function	Cavity	Function
1	Power	3	Module ground
2	Chassis ground	4	Coil ground

1.46 Ignition coil 5 with power output stage -N323-

4-pin connector -T4aj-



Cavity	Function	Cavity	Function
1	Power	3	Module ground
2	Chassis ground	4	Coil ground