

ELECTRICAL COMPONENTS LOCATION

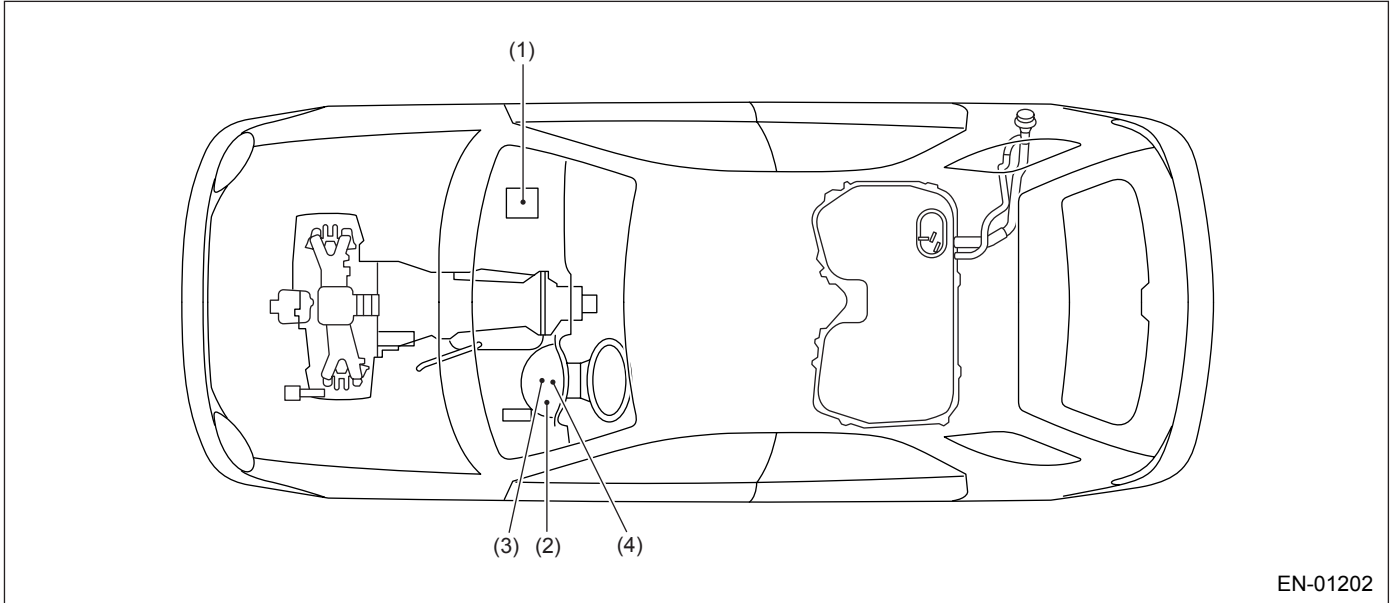
ENGINE (DIAGNOSTICS)

4. Electrical Components Location

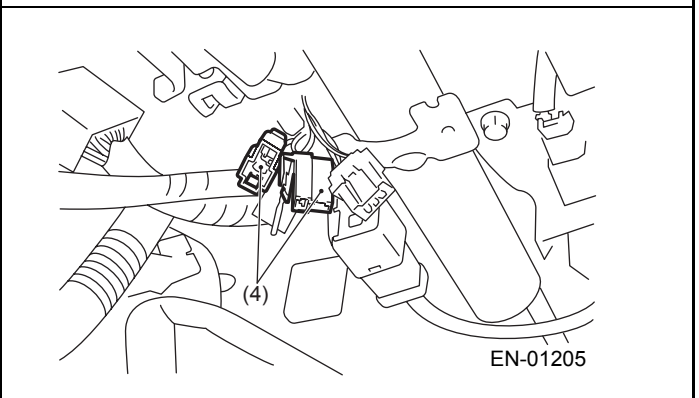
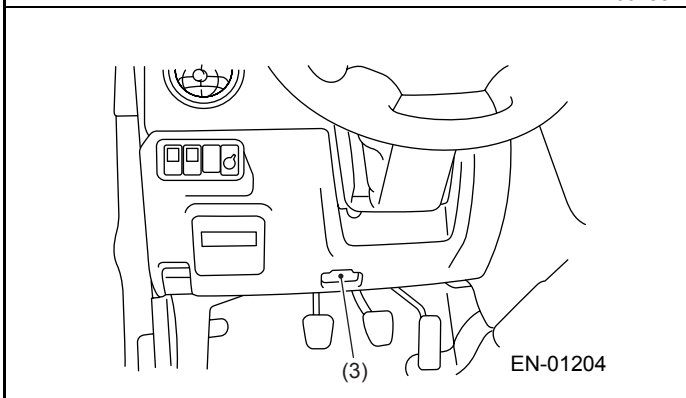
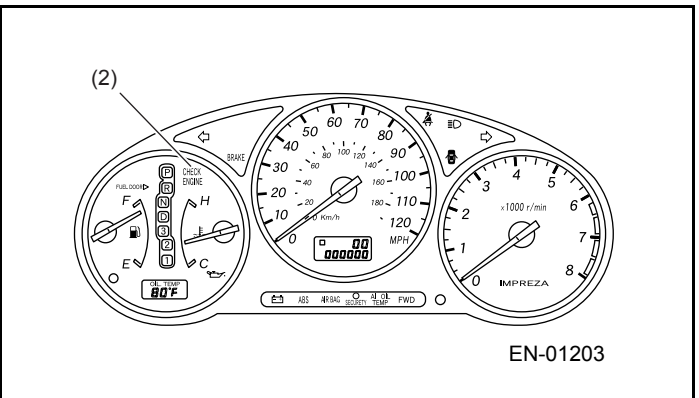
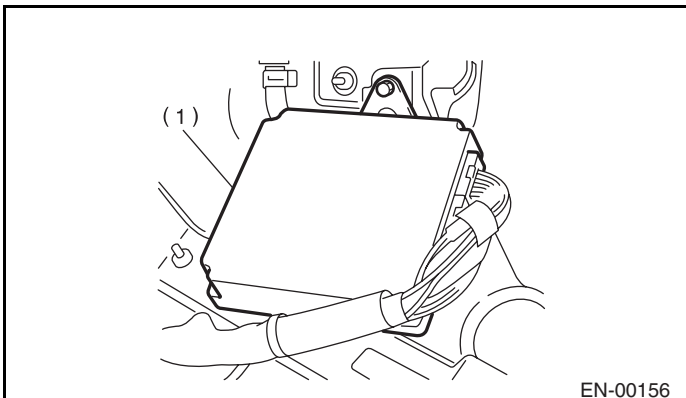
A: LOCATION

1. ENGINE

• Module



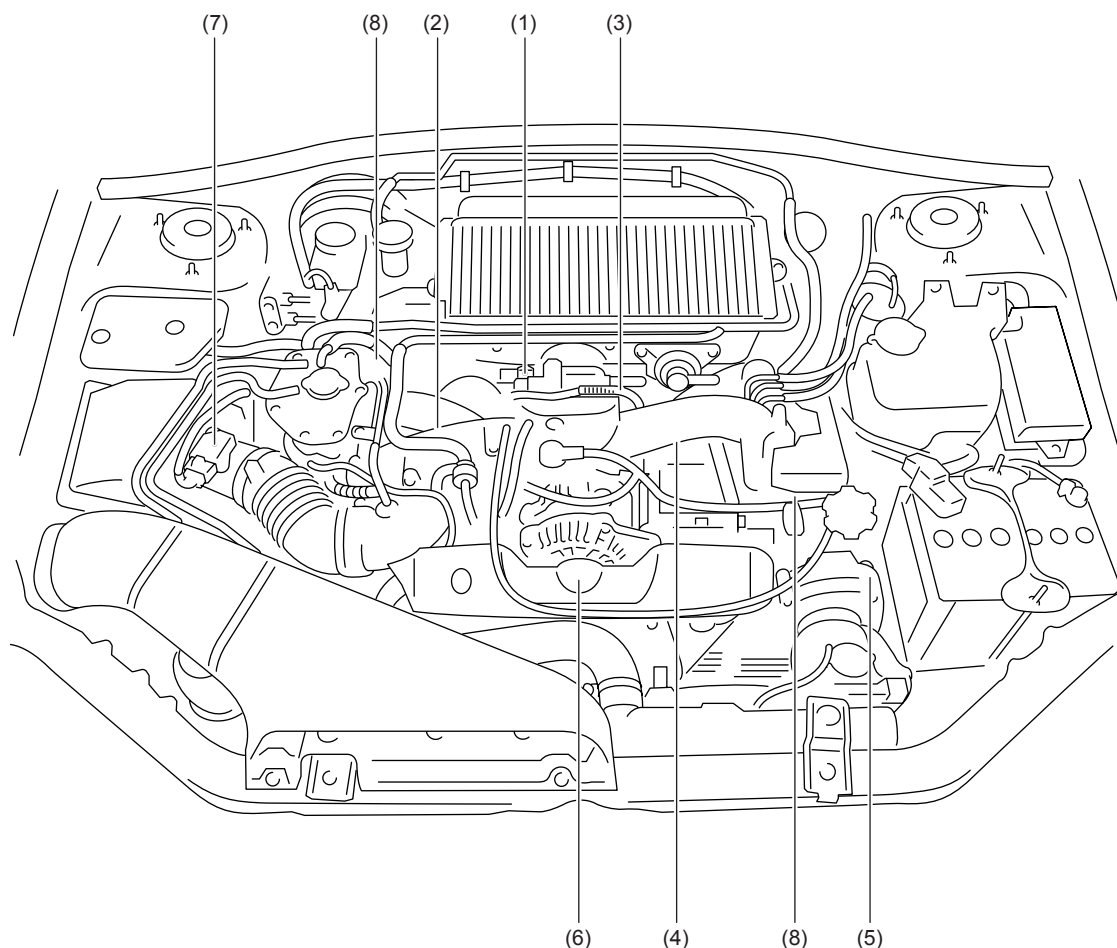
- (1) Engine control module (ECM) (3) Data link connector (4) Test mode connector
(2) CHECK ENGINE malfunction indicator lamp (MIL)



ELECTRICAL COMPONENTS LOCATION

ENGINE (DIAGNOSTICS)

• Sensors

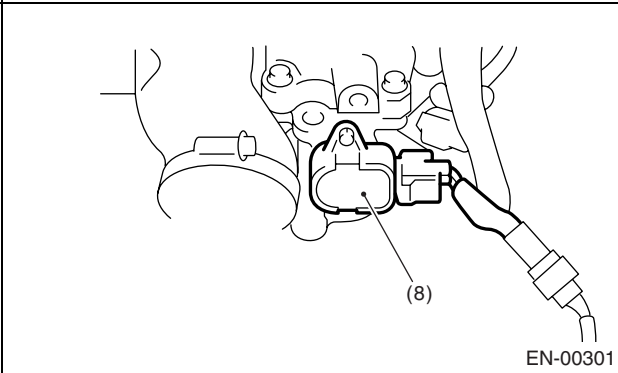
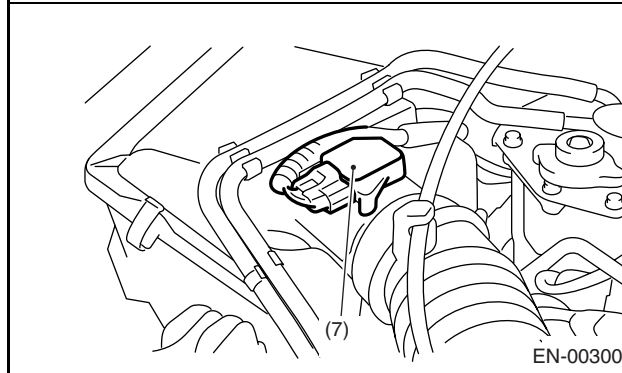
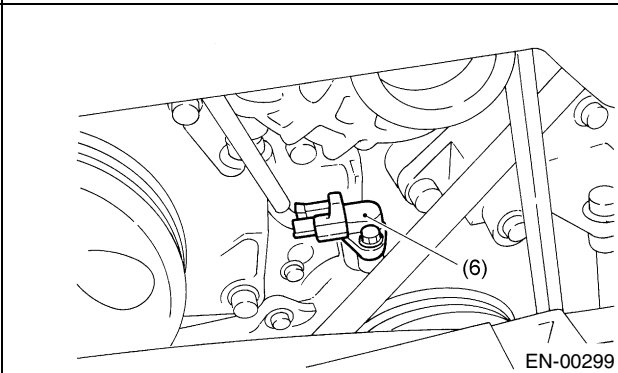
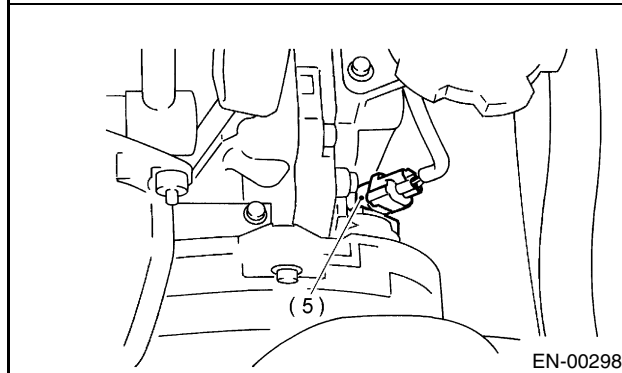
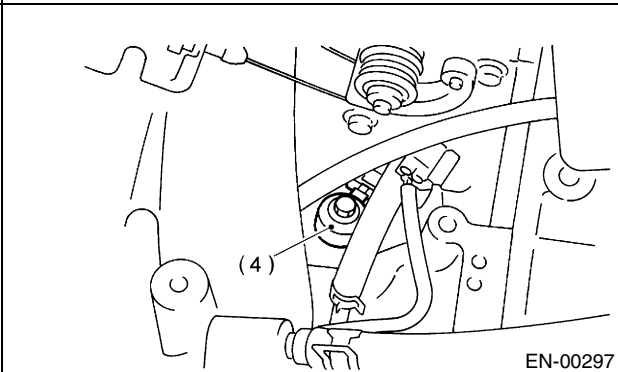
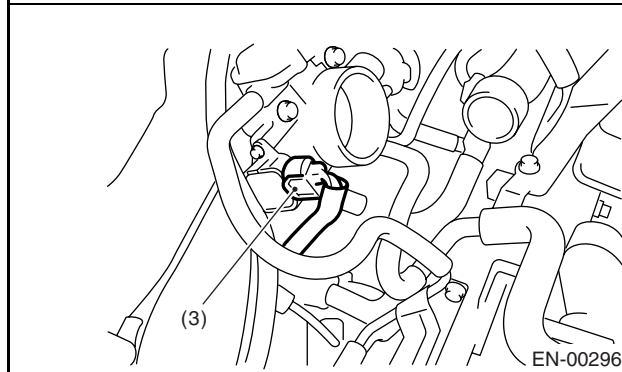
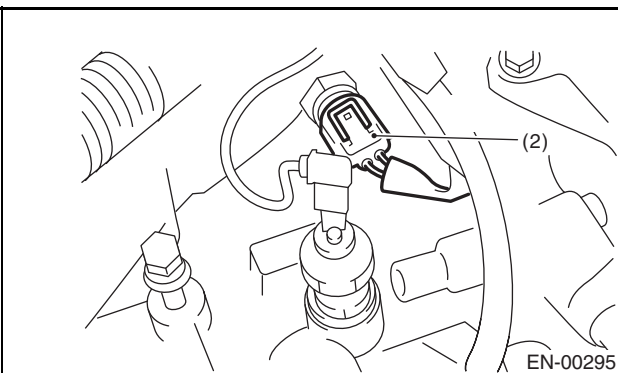
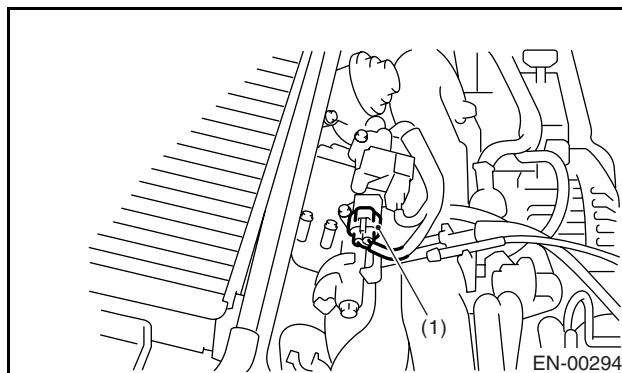


EN-01206

- | | | |
|---------------------------------------|--------------------------------|---|
| (1) Pressure sensor | (4) Knock sensor | (7) Mass air flow & intake air temperature sensor |
| (2) Engine coolant temperature sensor | (5) Camshaft position sensor | (8) Tumble generator valve position sensor |
| (3) Throttle position sensor | (6) Crankshaft position sensor | |

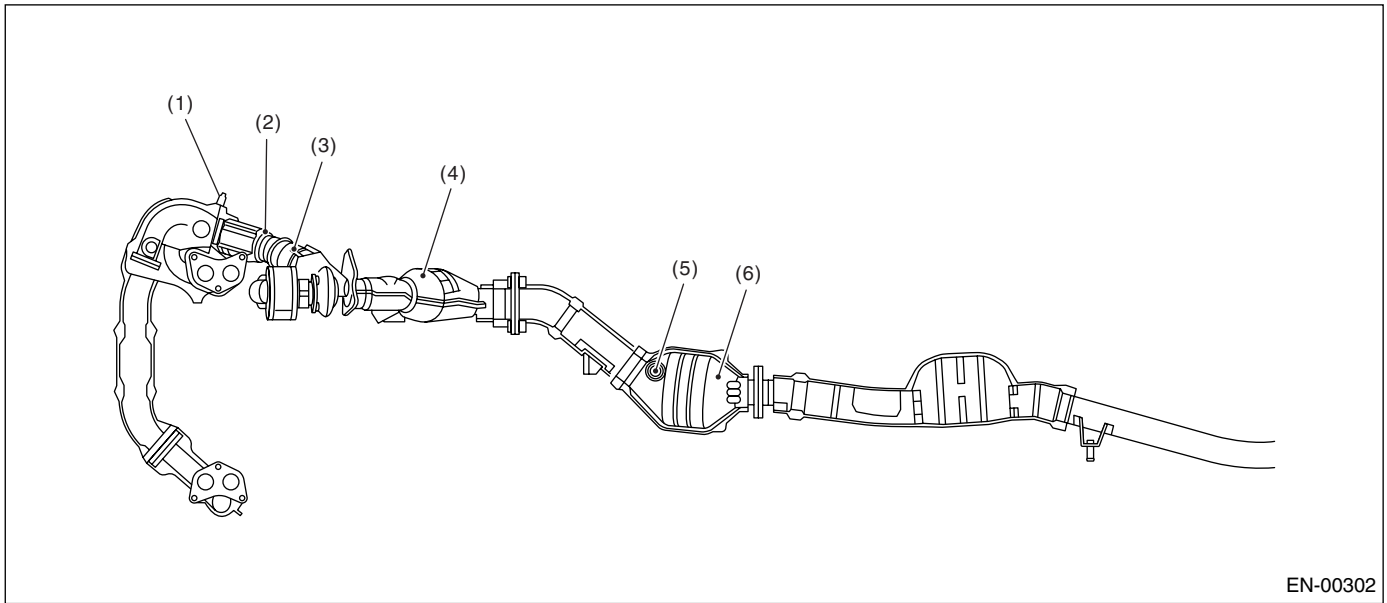
ELECTRICAL COMPONENTS LOCATION

ENGINE (DIAGNOSTICS)



ELECTRICAL COMPONENTS LOCATION

ENGINE (DIAGNOSTICS)



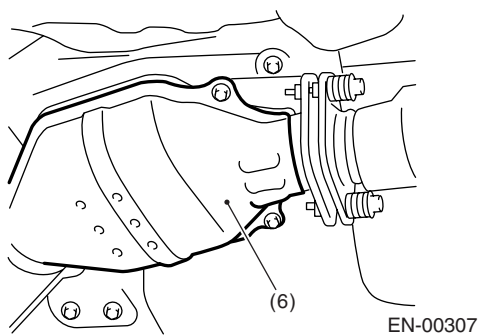
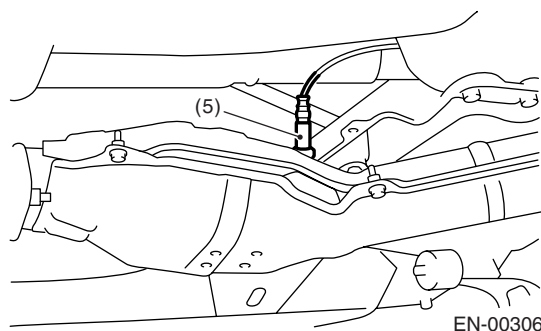
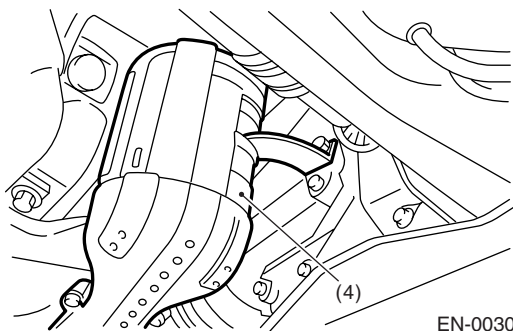
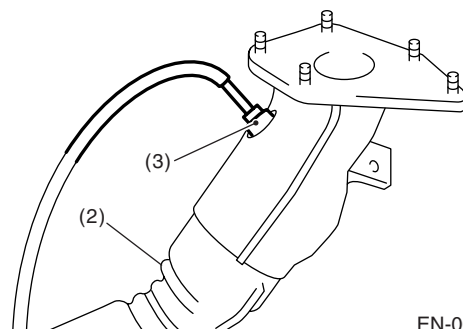
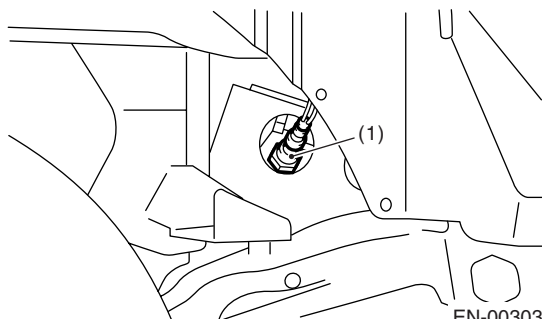
(1) Front oxygen (A/F) sensor
(2) Pre-catalytic converter

(3) Exhaust temperature sensor
(4) Front catalytic converter

(5) Rear oxygen sensor
(6) Rear catalytic converter

ELECTRICAL COMPONENTS LOCATION

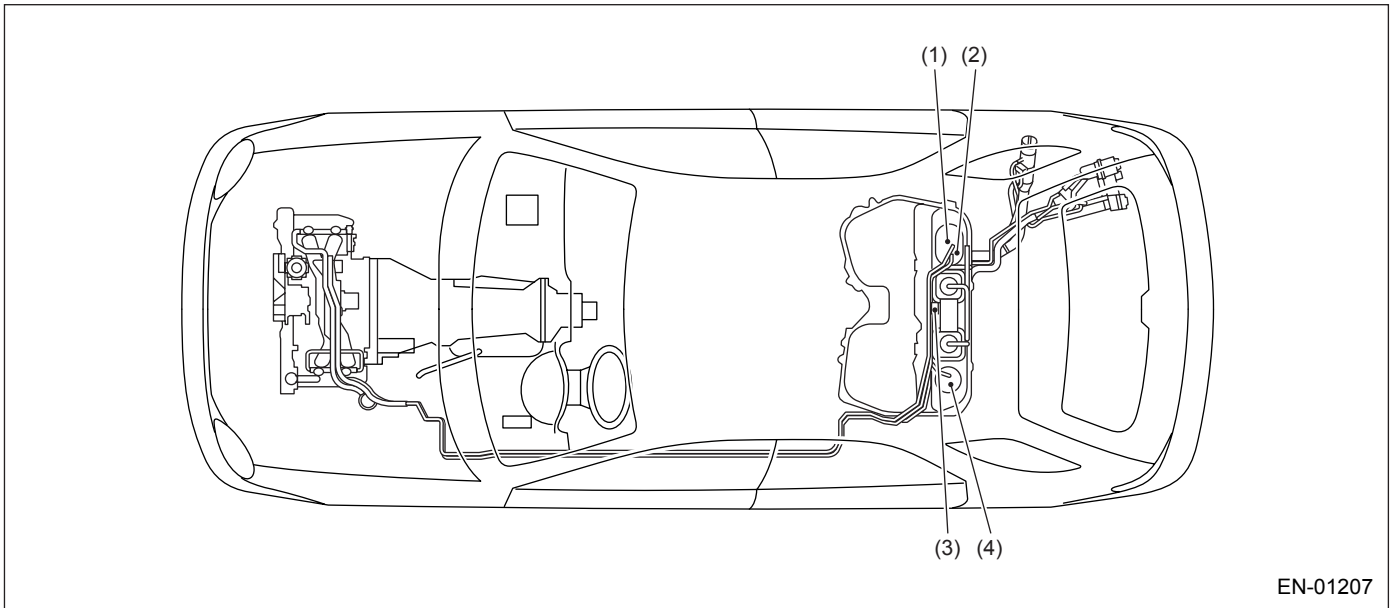
ENGINE (DIAGNOSTICS)



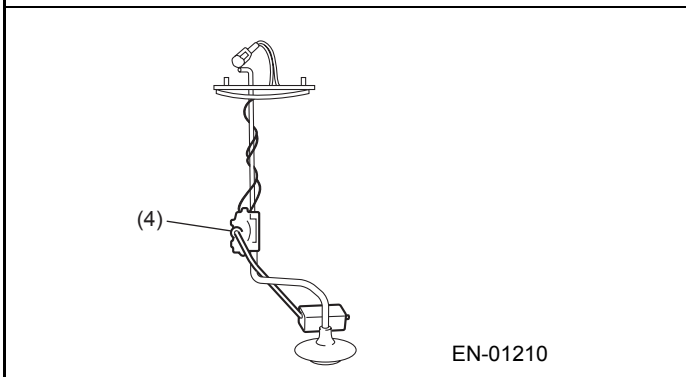
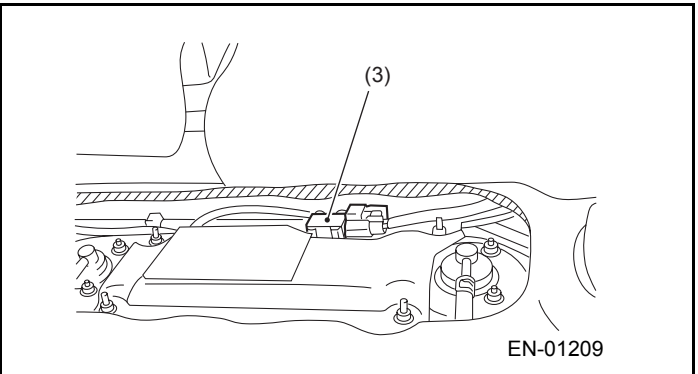
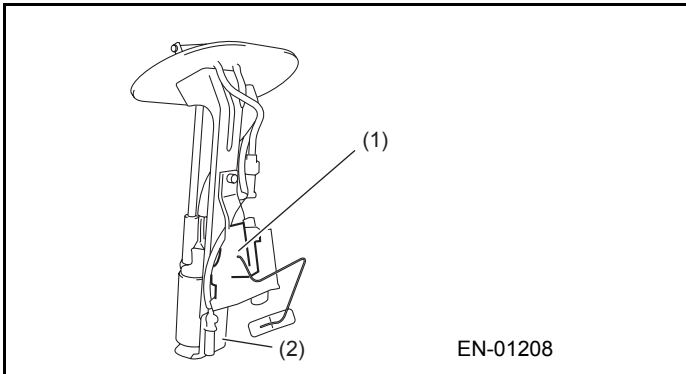
SUBARU.

ELECTRICAL COMPONENTS LOCATION

ENGINE (DIAGNOSTICS)



- | | |
|-----------------------------|-------------------------------|
| (1) Fuel level sensor | (3) Fuel tank pressure sensor |
| (2) Fuel temperature sensor | (4) Fuel sub level sensor |

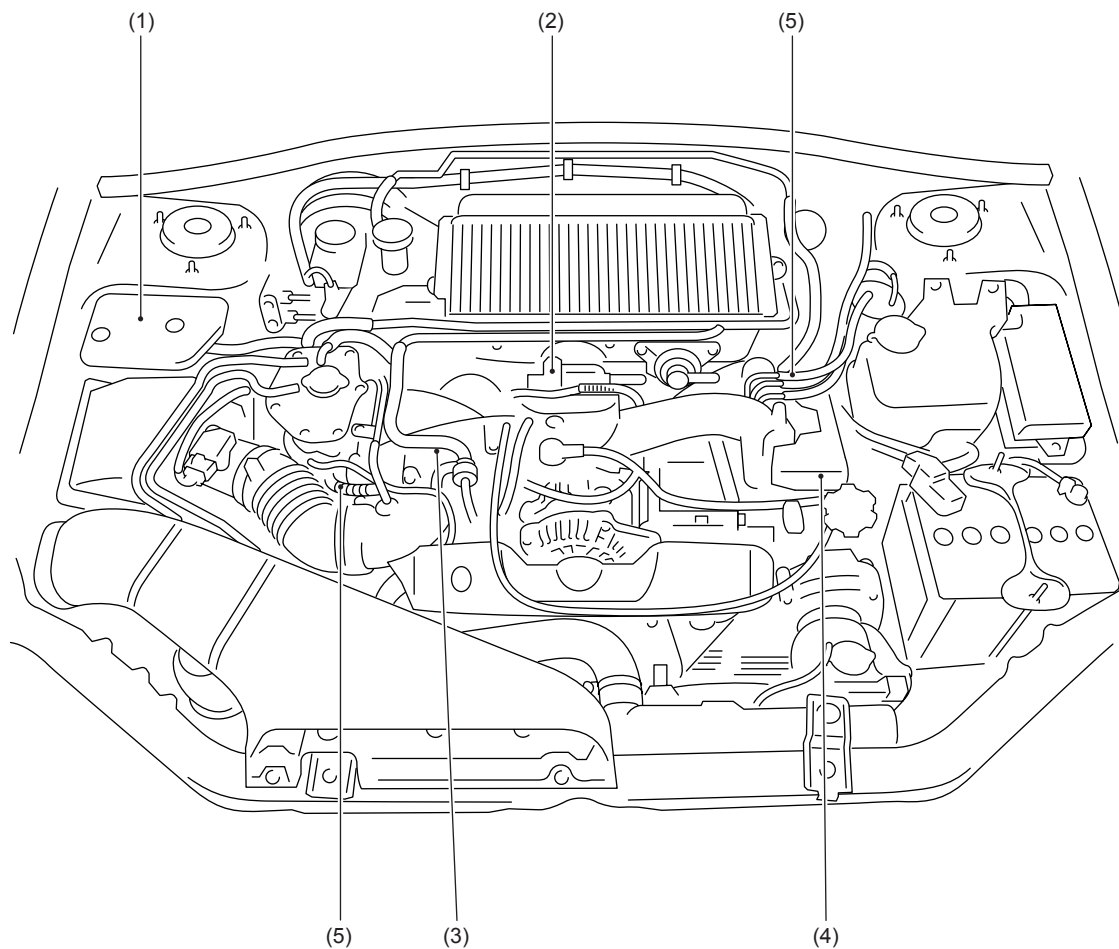


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ELECTRICAL COMPONENTS LOCATION

ENGINE (DIAGNOSTICS)

• Solenoid Valves, Actuators, Emission Control System Parts and Ignition System Parts



EN-01211

(1) Waste gate control solenoid valve

(2) Idle air control solenoid valve

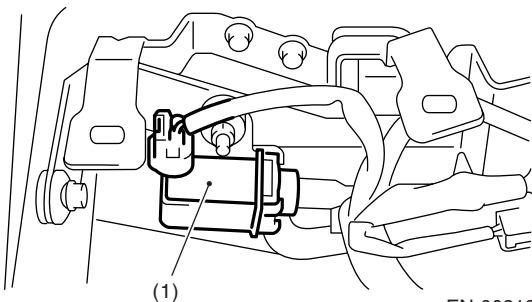
(3) Purge control solenoid valve

(4) Ignition coil

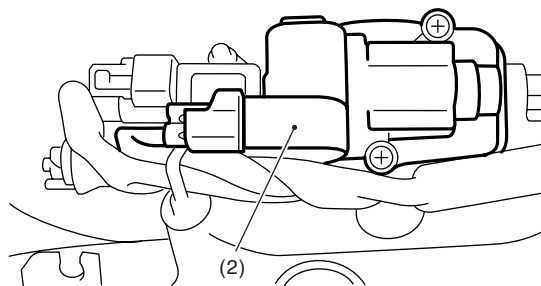
(5) Tumble generator valve actuator

ELECTRICAL COMPONENTS LOCATION

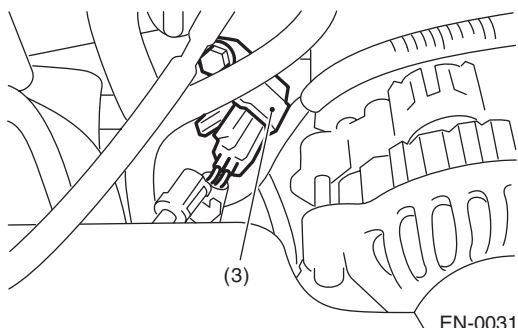
ENGINE (DIAGNOSTICS)



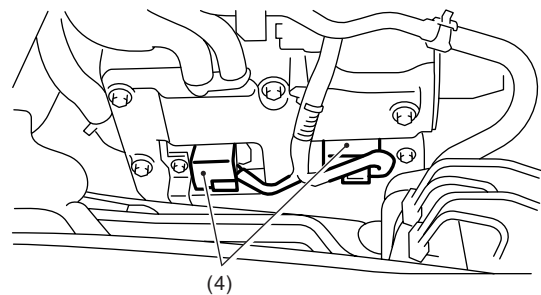
EN-00313



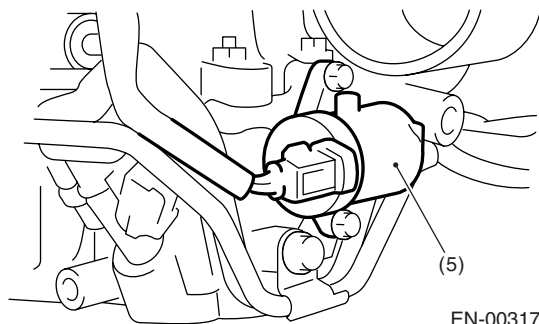
EN-00314



EN-00315



EN-00316

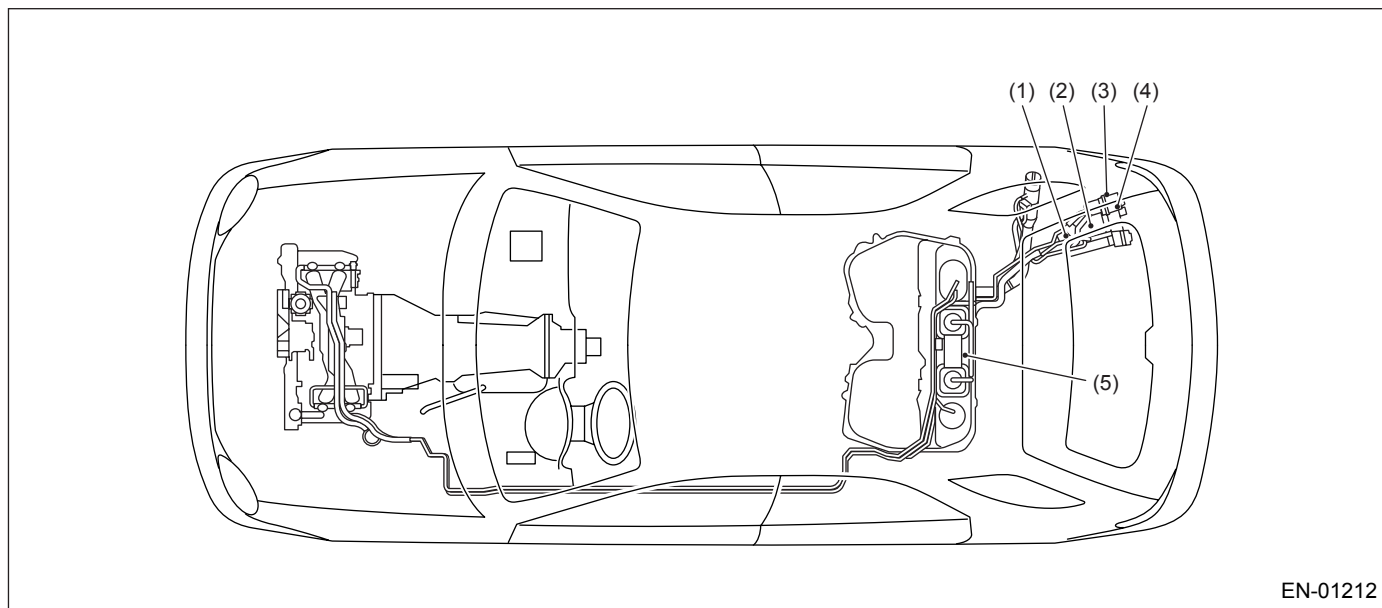


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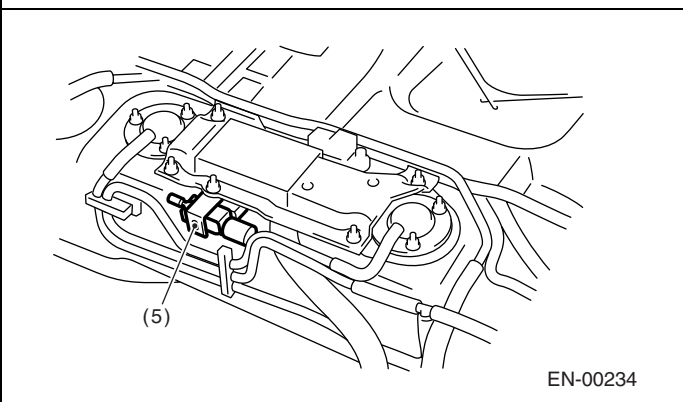
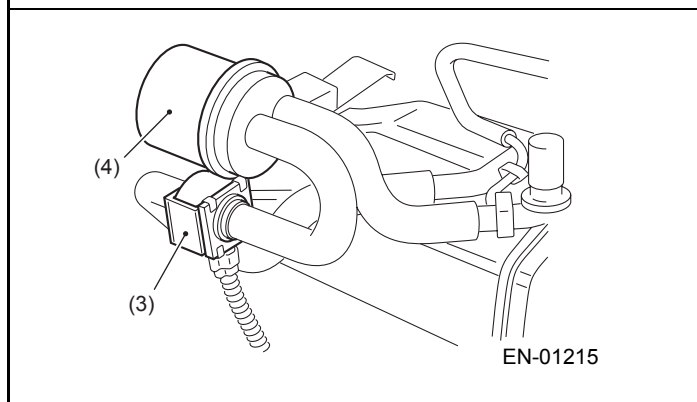
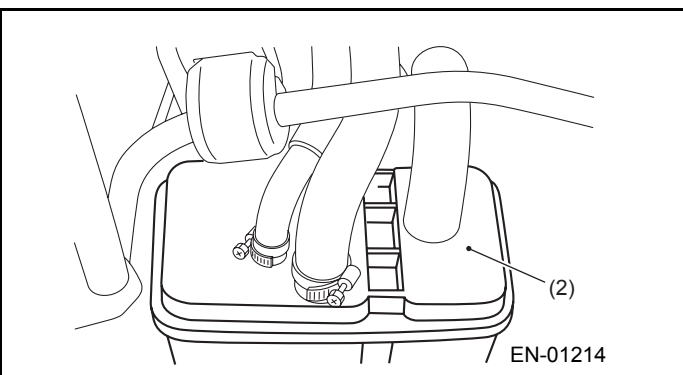
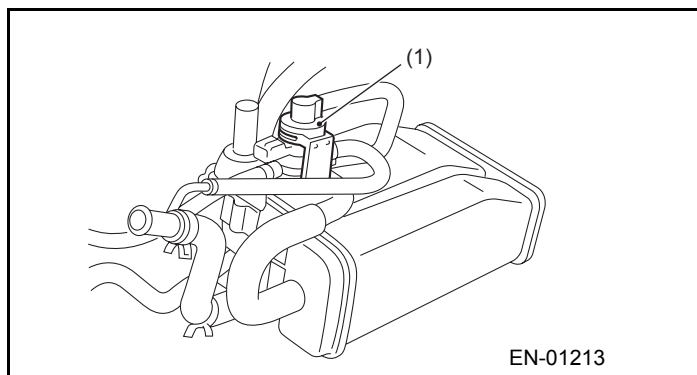
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ELECTRICAL COMPONENTS LOCATION

ENGINE (DIAGNOSTICS)

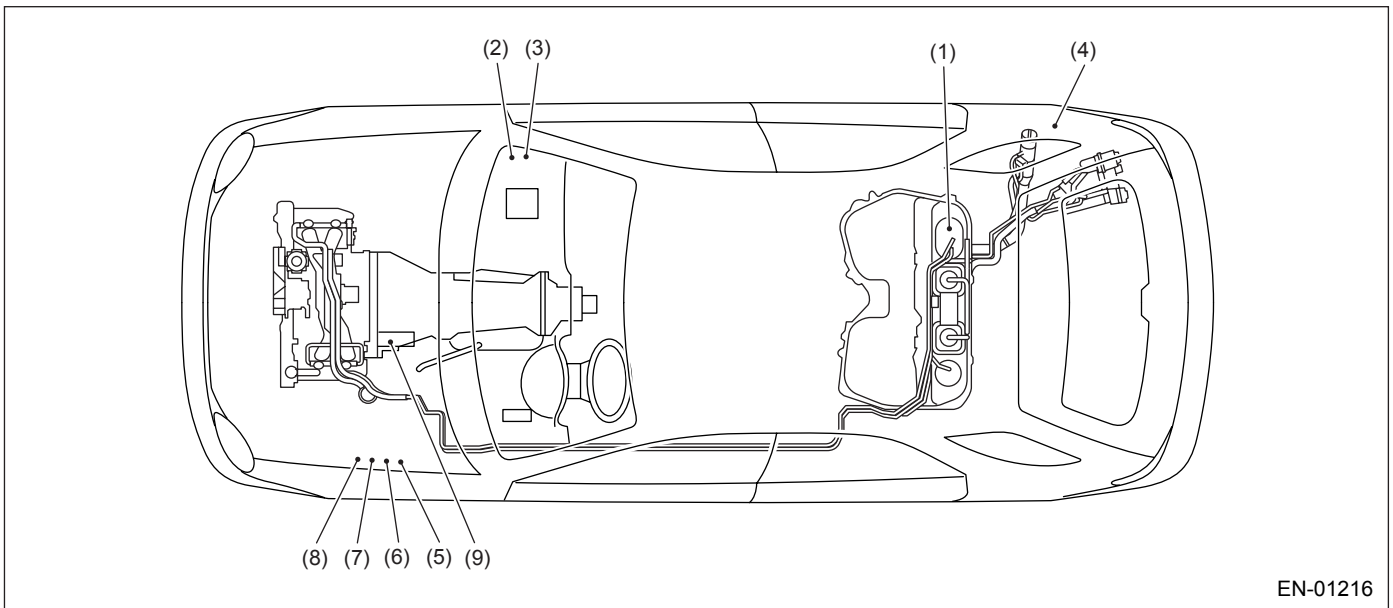


- | | | |
|-------------------------------------|------------------|------------------------------------|
| (1) Pressure control solenoid valve | (3) Drain valve | (5) Fuel tank sensor control valve |
| (2) Canister | (4) Drain filter | |



ELECTRICAL COMPONENTS LOCATION

ENGINE (DIAGNOSTICS)



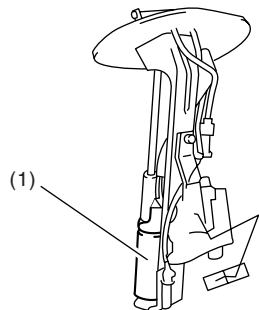
- (1) Fuel pump
- (2) Main relay
- (3) Fuel pump relay

- (4) Fuel pump controller
- (5) Radiator main fan relay 1
- (6) Radiator main fan relay 2

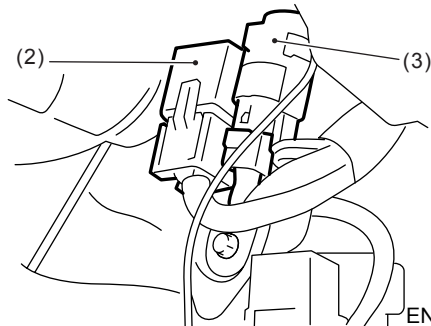
- (7) Radiator sub fan relay 1
- (8) Radiator sub fan relay 2
- (9) Starter

ELECTRICAL COMPONENTS LOCATION

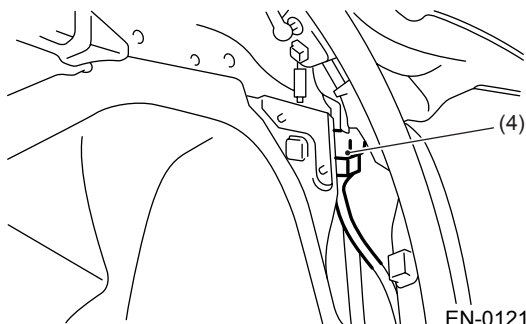
ENGINE (DIAGNOSTICS)



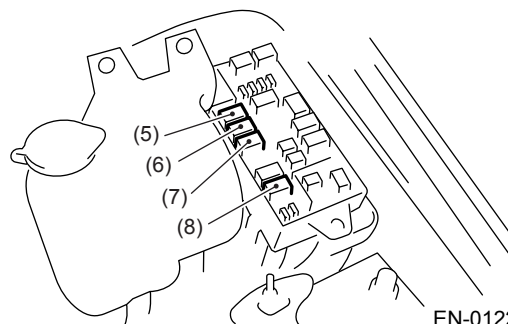
EN-01217



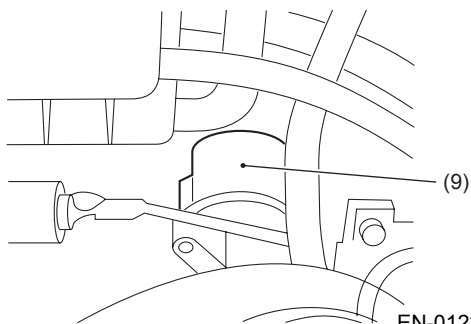
EN-01218



EN-01219



EN-01220

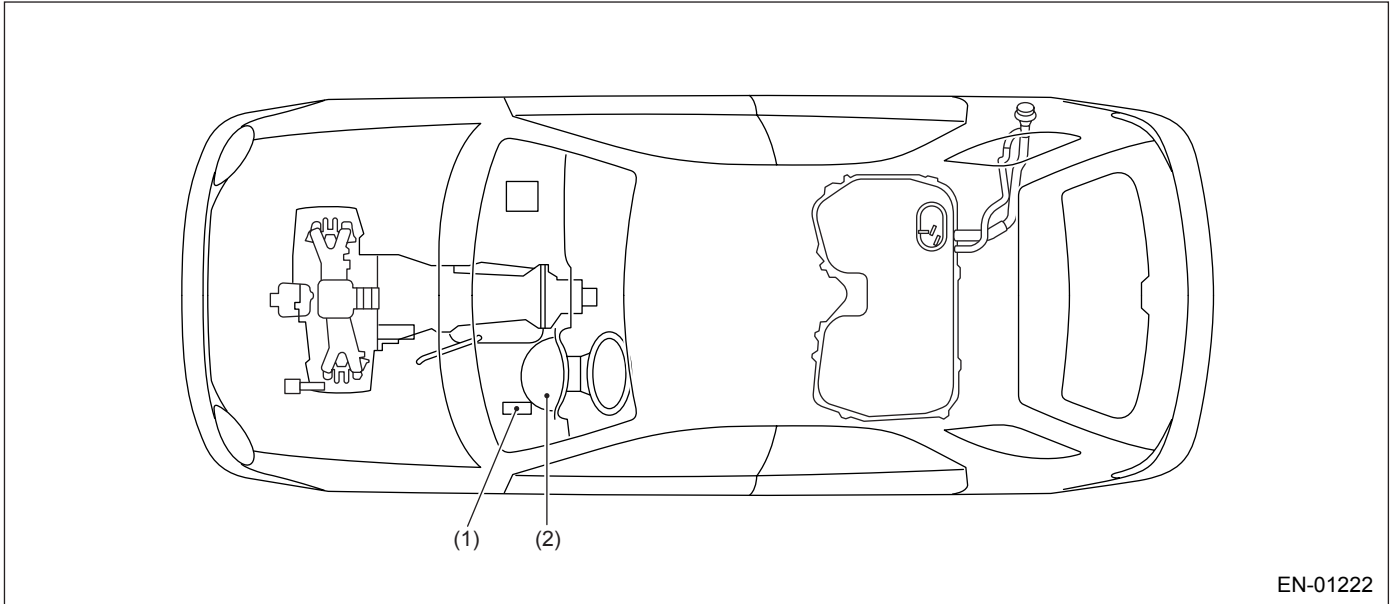


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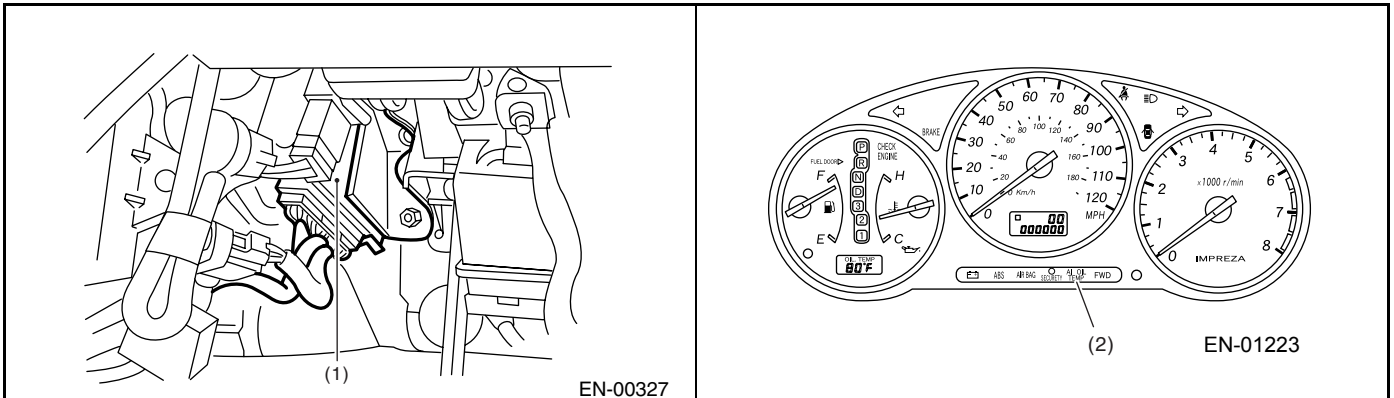
2. TRANSMISSION

• Module



(1) Transmission control module (TCM) (AT vehicles)

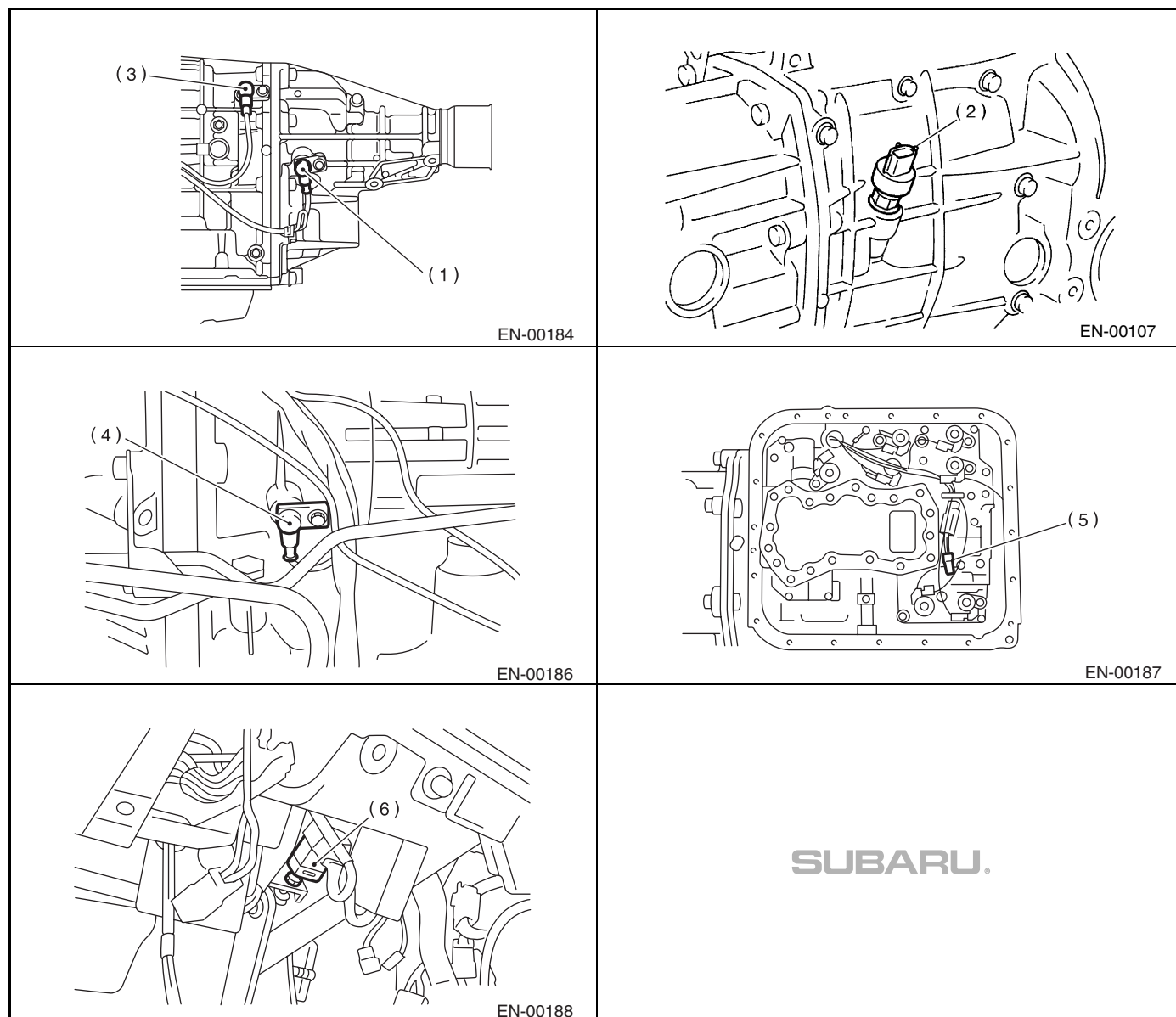
(2) AT diagnostic indicator light (AT vehicles)



ELECTRICAL COMPONENTS LOCATION

ENGINE (DIAGNOSTICS)

• Sensors

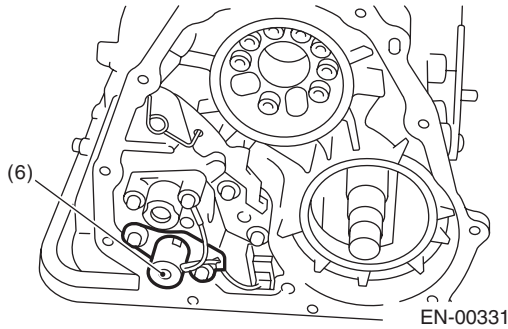
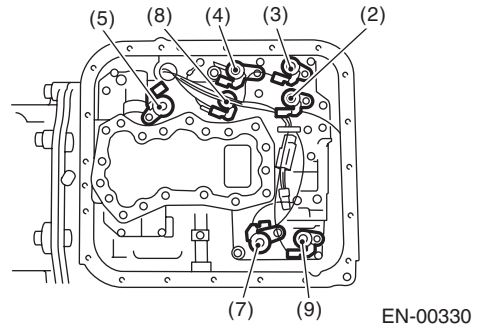
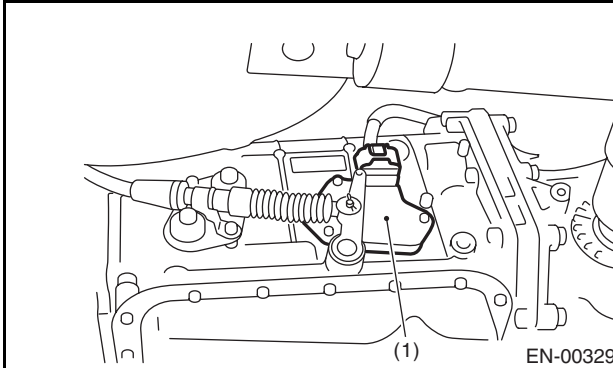


- (1) Rear vehicle speed sensor (AT vehicles)
- (2) Front vehicle speed sensor (MT vehicles)
- (3) Front vehicle speed sensor (AT vehicles)
- (4) Torque converter turbine speed sensor (AT vehicles)
- (5) ATF temperature sensor (AT vehicles)
- (6) Brake light switch

ELECTRICAL COMPONENTS LOCATION

ENGINE (DIAGNOSTICS)

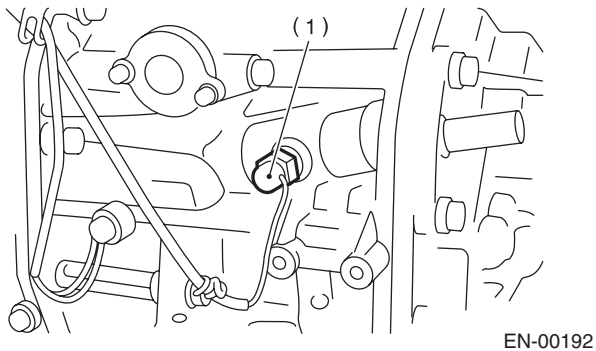
• Solenoid Valves and Switches (AT Vehicles)



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- (1) Inhibitor switch
- (2) Shift solenoid valve 1
- (3) Shift solenoid valve 2
- (4) Line pressure duty solenoid
- (5) Lockup duty solenoid
- (6) Transfer duty solenoid
- (7) 2-4 brake duty solenoid
- (8) Low clutch timing solenoid valve
- (9) 2-4 brake timing solenoid valve

• Solenoid Valves and Switches (MT Vehicles)



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- (1) Neutral position switch