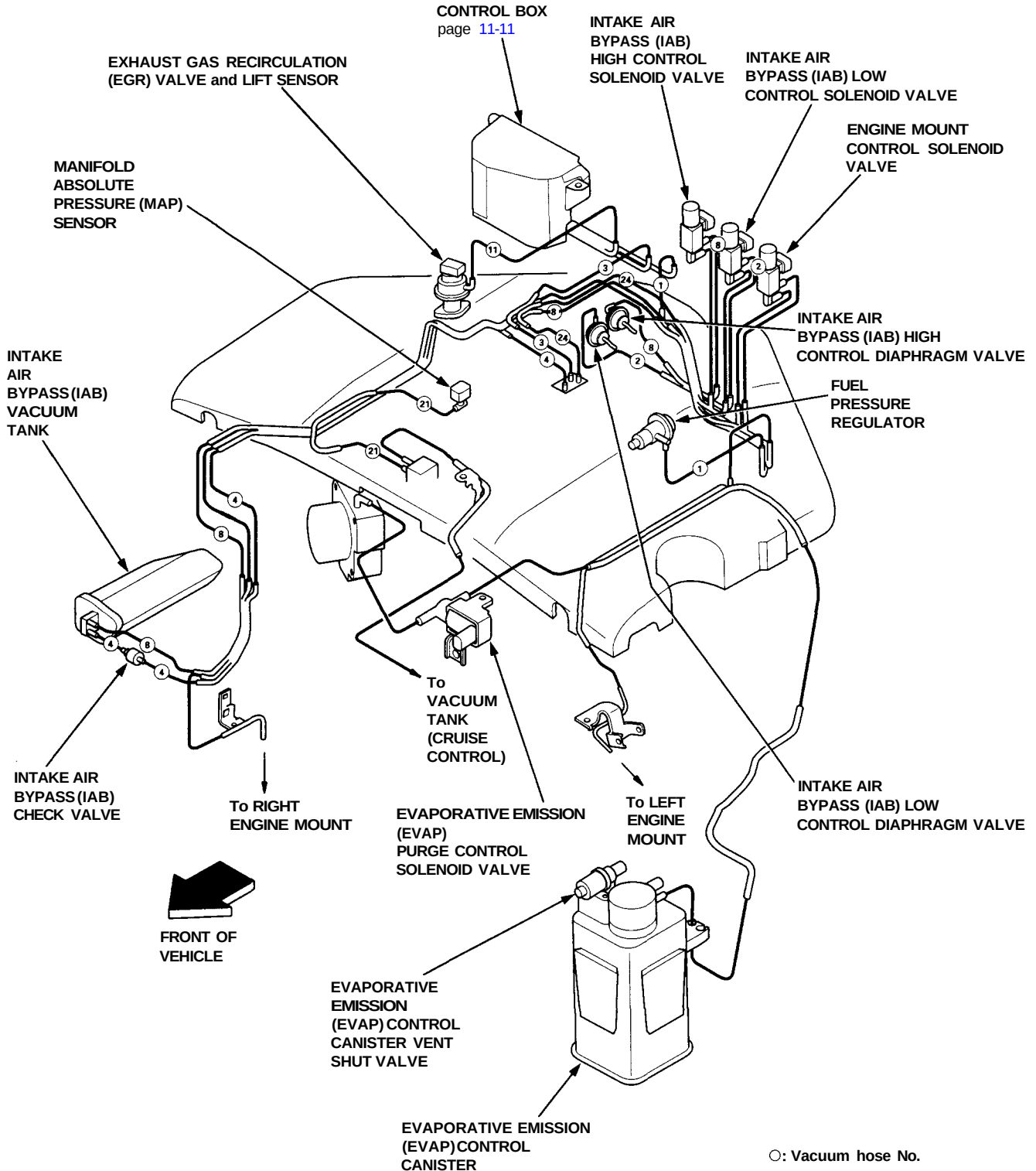




# System Description

## Vacuum Connections

'96 - 99 models:

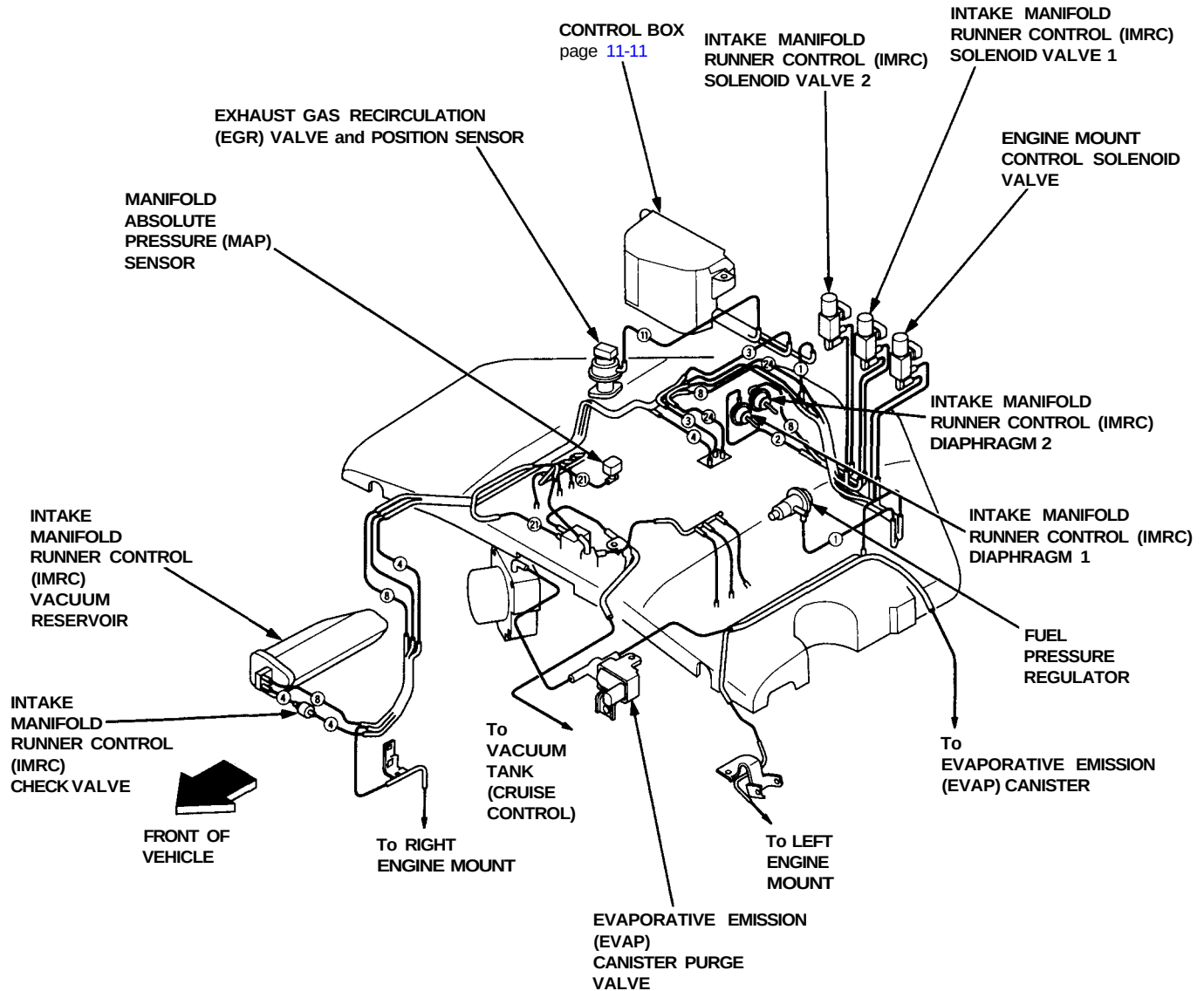


(cont'd)

# System Description

## Vacuum Connections (cont'd)

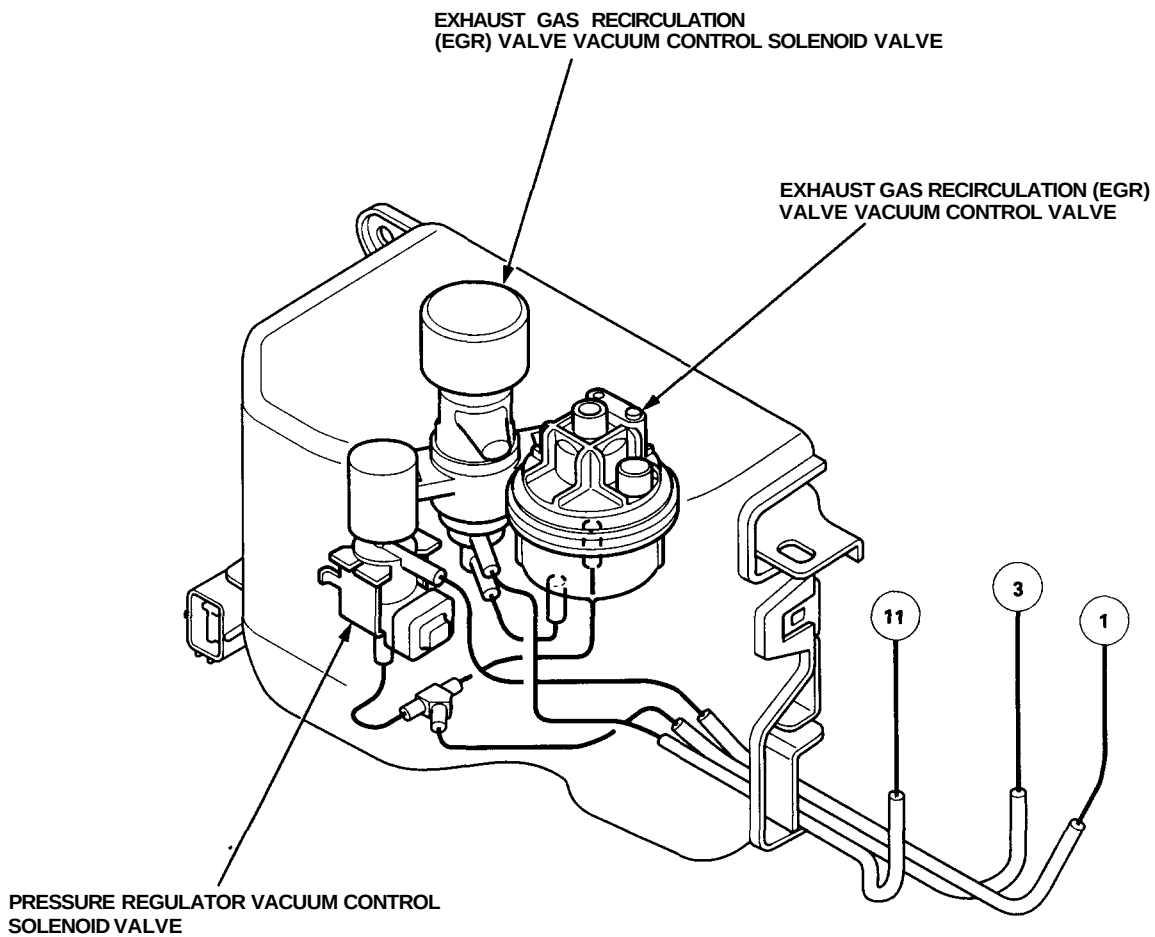
'00 - 04 models:



○: Vacuum hose No.

**Control Box:**

For Troubleshooting of DTC related components, see chart on page [11-53](#).



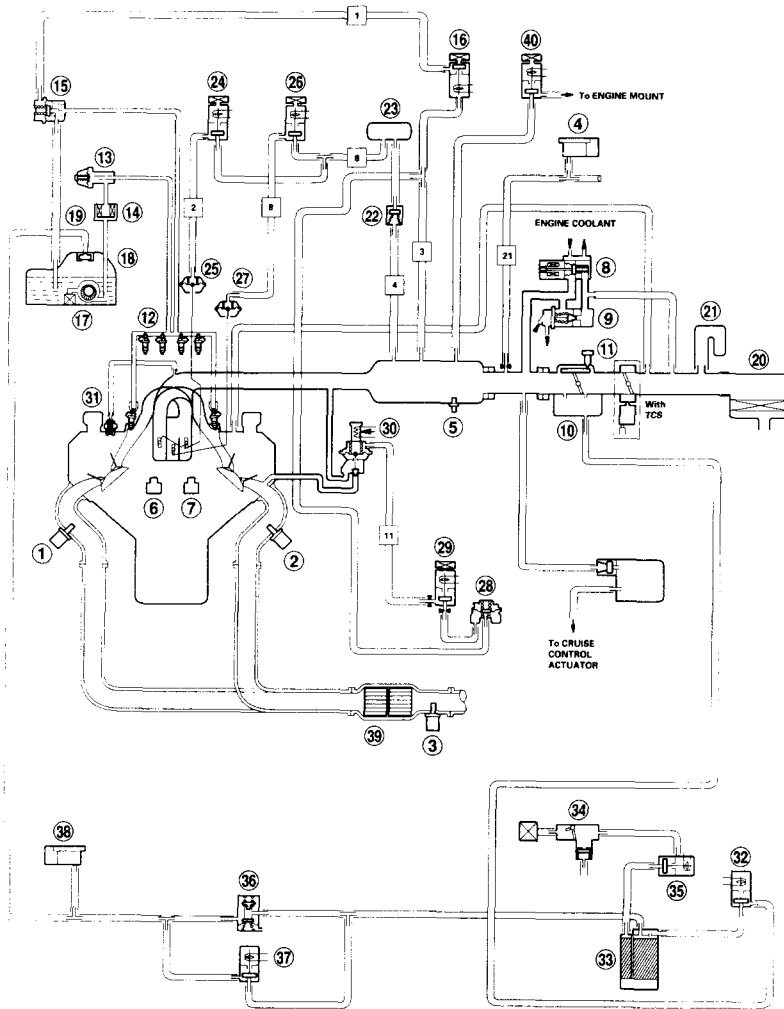
○: Vacuum hose No.

(cont'd)

# System Description

## Vacuum Connections (cont'd)

'96 - 99 models:



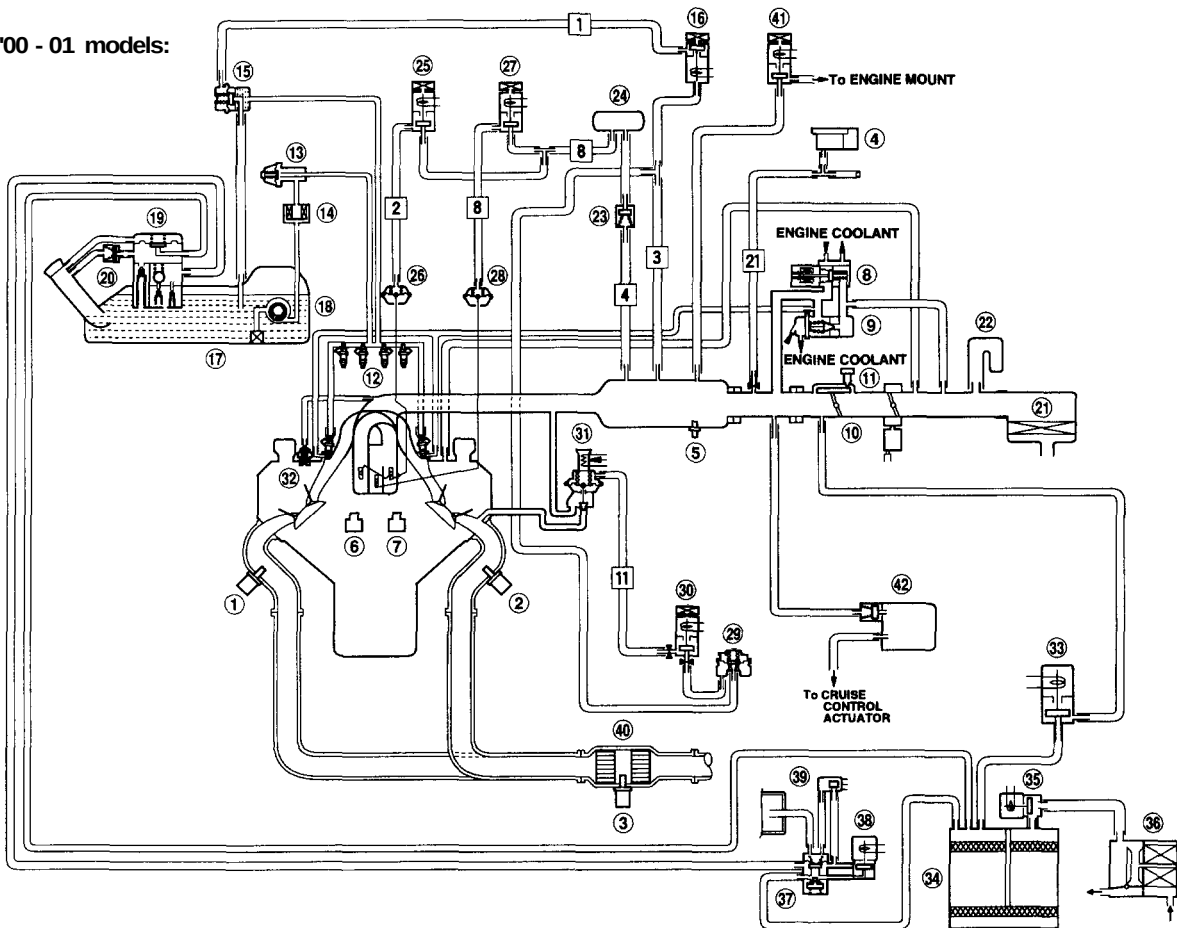
□: Vacuum hose No.

- ① LEFT PRIMARY HEATED OXYGEN SENSOR (LEFT PRIMARY HO2S) (BANK 2, SENSOR 1)
- ② RIGHT PRIMARY HEATED OXYGEN SENSOR (RIGHT PRIMARY HO2S) (BANK 1, SENSOR 1)
- ③ SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S) (SENSOR 2)
- ④ MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR
- ⑤ INTAKE AIR TEMPERATURE (IAT) SENSOR
- ⑥ LEFT KNOCK SENSOR (LEFT KS) (BANK 2)
- ⑦ RIGHT KNOCK SENSOR (RIGHT KS) (BANK 1)
- ⑧ IDLE AIR CONTROL (IAC) VALVE
- ⑨ FAST IDLE THERMO VALVE
- ⑩ THROTTLE BODY (TB)
- ⑪ IDLE ADJUSTING SCREW
- ⑫ FUEL INJECTOR
- ⑬ FUEL PULSATION DAMPER
- ⑭ FUEL FILTER
- ⑮ FUEL PRESSURE REGULATOR
- ⑯ FUEL PRESSURE REGULATOR CONTROL SOLENOID VALVE
- ⑰ FUEL PUMP (FP)
- ⑱ FUEL TANK
- ⑲ FUEL TANK EVAPORATIVE EMISSION (EVAP) VALVE
- ⑳ AIR CLEANER
- ㉑ RESONATOR
- ㉒ INTAKE AIR BYPASS (IAB) CHECK VALVE
- ㉓ INTAKE AIR BYPASS (IAB) VACUUM TANK
- ㉔ INTAKE AIR BYPASS (IAB) LOW CONTROL SOLENOID VALVE

- ㉕ INTAKE AIR BYPASS (IAB) LOW CONTROL DIAPHRAGM VALVE
- ㉖ INTAKE AIR BYPASS (IAB) HIGH CONTROL SOLENOID VALVE
- ㉗ INTAKE AIR BYPASS (IAB) HIGH CONTROL DIAPHRAGM VALVE
- ㉘ EXHAUST GAS RECIRCULATION (EGR) VACUUM CONTROL VALVE
- ㉙ EXHAUST GAS RECIRCULATION (EGR) CONTROL SOLENOID VALVE
- ㉚ EXHAUST GAS RECIRCULATION (EGR) VALVE and LIFT SENSOR
- ㉛ POSITIVE CRANKCASE VENTILATION (PCV) VALVE
- ㉜ EVAPORATIVE EMISSION (EVAP) PURGE CONTROL SOLENOID VALVE
- ㉝ EVAPORATIVE EMISSION (EVAP) CONTROL CANISTER
- ㉞ EVAPORATIVE EMISSION (EVAP) THREE WAY VALVE
- ㉟ EVAPORATIVE EMISSION (EVAP) CONTROL CANISTER VENT SHUT VALVE
- ㊱ EVAPORATIVE EMISSION (EVAP) TWO WAY VALVE
- ㊲ EVAPORATIVE EMISSION (EVAP) BYPASS SOLENOID VALVE
- ㊳ FUEL TANK PRESSURE SENSOR
- ㊴ THREE WAY CATALYTIC CONVERTER (TWO)
- ㊵ ENGINE MOUNT CONTROL SOLENOID VALVE



'00 - 01 models:



□: Vacuum hose No.

- |                                                                                           |                                                                        |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| ① LEFT PRIMARY HEATED OXYGEN SENSOR (LEFT PRIMARY HO <sub>2</sub> S) (BANK 2, SENSOR 1)   | ②④ INTAKE MANIFOLD RUNNER CONTROL (IMRC) VACUUM RESERVOIR              |
| ② RIGHT PRIMARY HEATED OXYGEN SENSOR (RIGHT PRIMARY HO <sub>2</sub> S) (BANK 1, SENSOR 1) | ②⑤ INTAKE MANIFOLD RUNNER CONTROL (IMRC) SOLENOID VALVE 1              |
| ③ SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO <sub>2</sub> S) (SENSOR 2)                 | ②⑥ INTAKE MANIFOLD RUNNER CONTROL (IMRC) DIAPHRAGM 1                   |
| ④ MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR                                                 | ②⑦ INTAKE MANIFOLD RUNNER CONTROL (IMRC) SOLENOID VALVE 2              |
| ⑤ INTAKE AIR TEMPERATURE (IAT) SENSOR                                                     | ②⑧ INTAKE MANIFOLD RUNNER CONTROL (IMRC) DIAPHRAGM 2                   |
| ⑥ LEFT KNOCK SENSOR (BANK 2)                                                              | ②⑨ EXHAUST GAS RECIRCULATION (EGR) VALVE VACUUM CONTROL VALVE          |
| ⑦ RIGHT KNOCK SENSOR (BANK 1)                                                             | ③⑩ EXHAUST GAS RECIRCULATION (EGR) VALVE VACUUM CONTROL SOLENOID VALVE |
| ⑧ IDLE AIR CONTROL (IAC) VALVE                                                            | ③⑪ EXHAUST GAS RECIRCULATION (EGR) VALVE and POSITION SENSOR           |
| ⑨ IDLE AIR CONTROL (IAC) THERMAL VALVE                                                    | ③⑫ POSITIVE CRANKCASE VENTILATION (PCV) VALVE                          |
| ⑩ THROTTLE BODY                                                                           | ③⑬ EVAPORATIVE EMISSION (EVAP) CANISTER PURGE VALVE                    |
| ⑪ IDLE ADJUSTING SCREW                                                                    | ③⑭ EVAPORATIVE EMISSION (EVAP) CANISTER                                |
| ⑫ INJECTOR                                                                                | ③⑮ EVAPORATIVE EMISSION (EVAP) CANISTER VENT SHUT VALVE                |
| ⑬ FUEL PULSATION DAMPER                                                                   | ③⑯ EVAPORATIVE EMISSION (EVAP) CANISTER FILTER                         |
| ⑭ FUEL FILTER                                                                             | ③⑰ EVAPORATIVE EMISSION (EVAP) TWO WAY VALVE                           |
| ⑮ FUEL PRESSURE REGULATOR                                                                 | ③⑱ EVAPORATIVE EMISSION (EVAP) BYPASS SOLENOID VALVE                   |
| ⑯ PRESSURE REGULATOR VACUUM CONTROL SOLENOID VALVE                                        | ③⑲ FUEL TANK PRESSURE (FTP) SENSOR                                     |
| ⑰ FUEL PUMP                                                                               | ④① THREE WAY CATALYTIC CONVERTER (TWC)                                 |
| ⑱ FUEL TANK                                                                               | ④② ENGINE MOUNT CONTROL SOLENOID VALVE                                 |
| ⑲ FUEL TANK VAPOR CONTROL VALVE                                                           |                                                                        |
| ⑳ FUEL TANK VAPOR RECIRCULATION VALVE                                                     |                                                                        |
| ㉑ AIR CLEANER                                                                             |                                                                        |
| ㉒ RESONATOR                                                                               |                                                                        |
| ㉓ INTAKE MANIFOLD RUNNER CONTROL (IMRC) CHECK VALVE                                       |                                                                        |