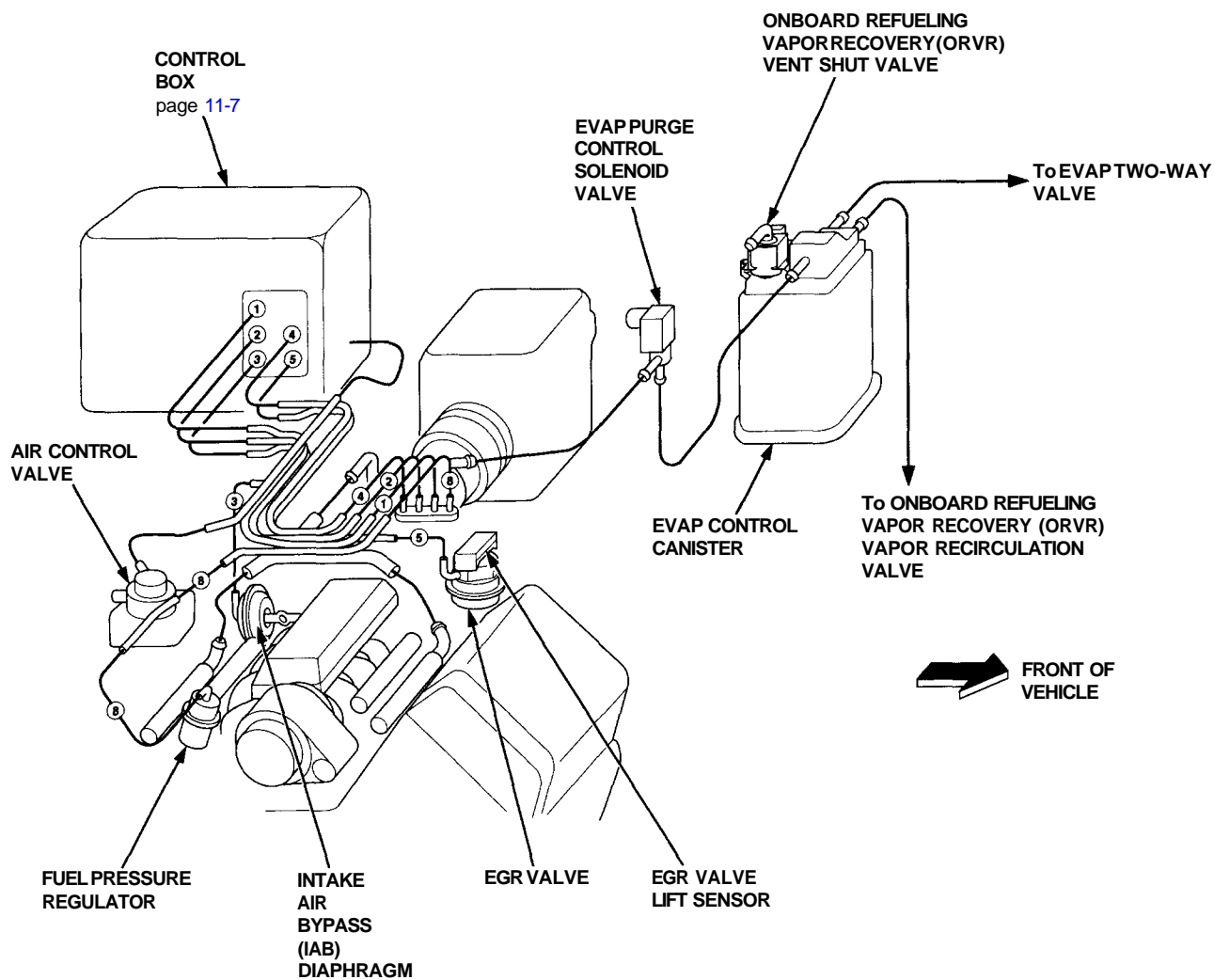


System Description

Vacuum Connections

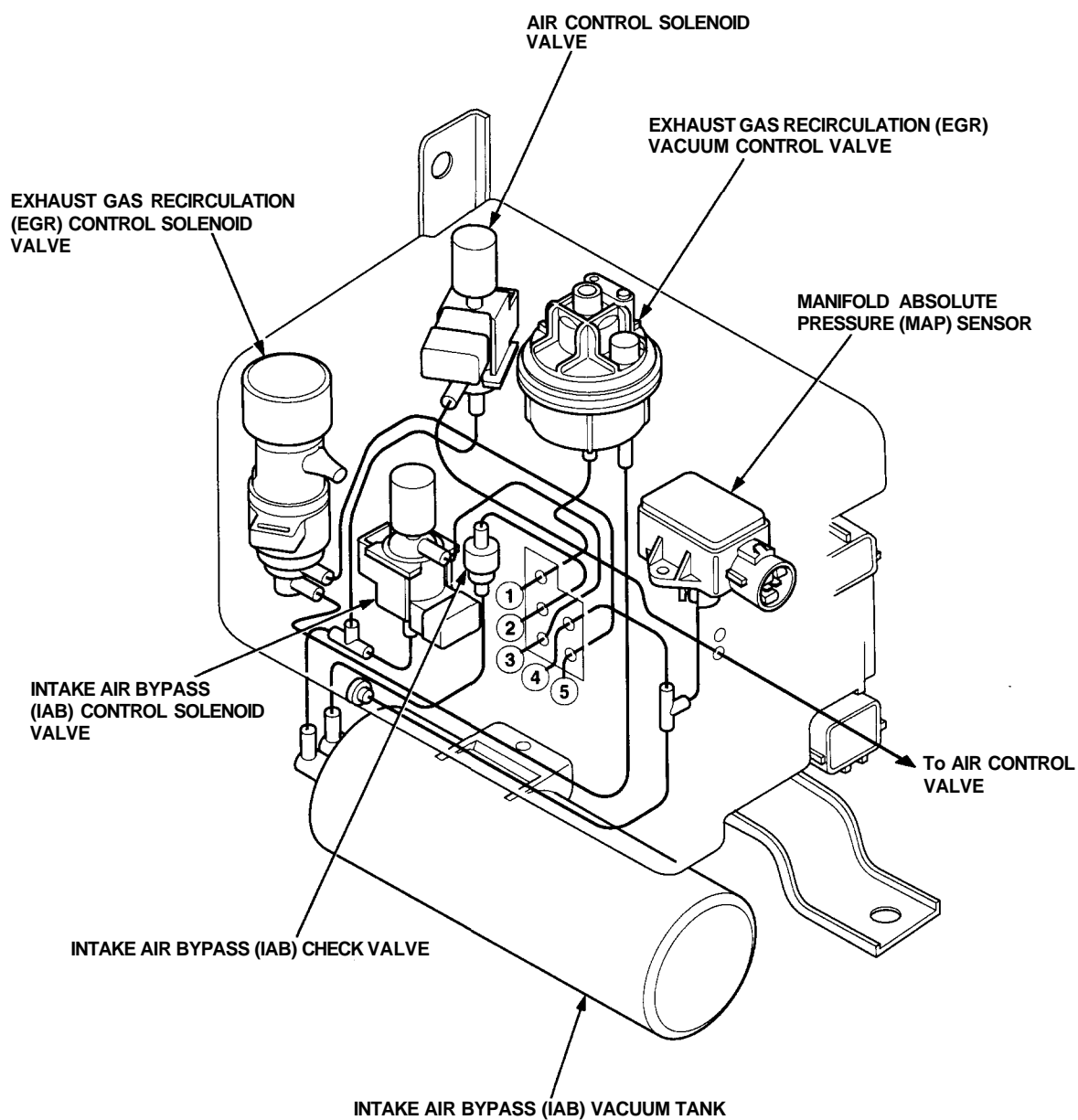
For Troubleshooting of DTC related components, see chart on page 11-52.





Control Box:

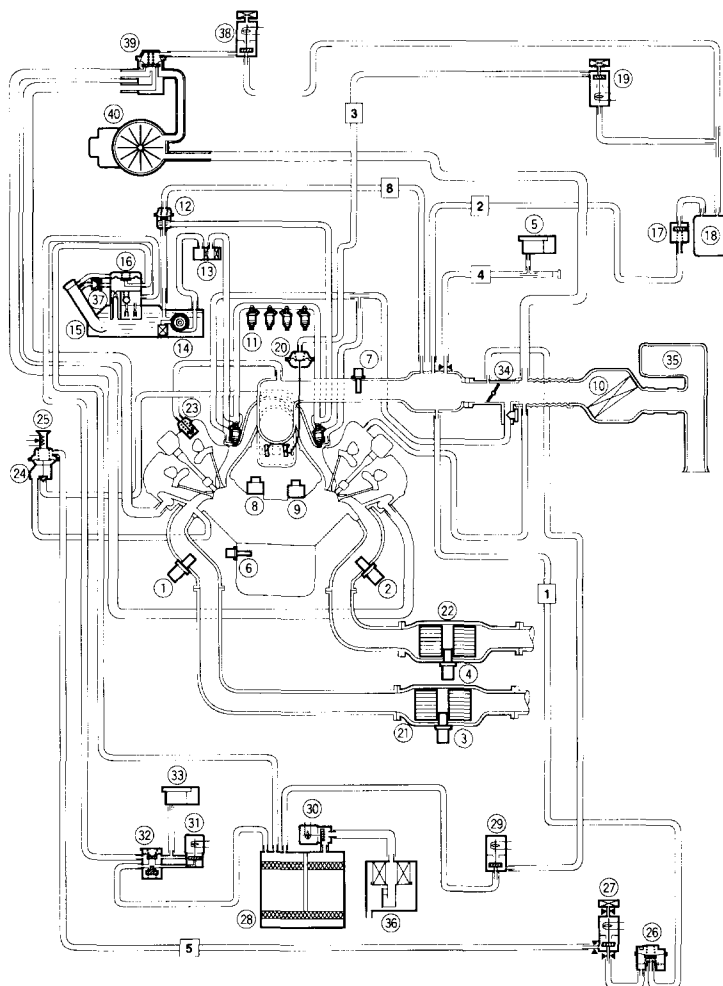
For Troubleshooting of DTC related components, see chart on page [11-52](#).



(cont'd)

System Description

Vacuum Connections (cont'd)



□: Vacuum hose No.

- | | |
|------------------------------------------------------------------------|---------------------------------------------------------------------|
| ① FRONT PRIMARY HEATED OXYGEN SENSOR (HO2S)
(BANK 2, SENSOR 1) | ②① FRONT THREE WAY CATALYTIC CONVERTER (TWC) |
| ② REAR PRIMARY HEATED OXYGEN SENSOR (HO2S)
(BANK 1, SENSOR 1) | ②② REAR THREE WAY CATALYTIC CONVERTER (TWC) |
| ③ FRONT SECONDARY HEATED OXYGEN SENSOR (HO2S)
(BANK 2, SENSOR 2) | ②③ POSITIVE CRANKCASE VENTILATION (PCV) VALVE |
| ④ REAR SECONDARY HEATED OXYGEN SENSOR (HO2S)
(BANK 1, SENSOR 2) | ②④ EXHAUST GAS RECIRCULATION (EGR) VALVE |
| ⑤ MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR | ②⑤ EXHAUST GAS RECIRCULATION (EGR) VALVE LIFT SEN-
SOR |
| ⑥ ENGINE COOLANT TEMPERATURE (ECT) SENSOR | ②⑥ EXHAUST GAS RECIRCULATION (EGR) VACUUM CONTROL
VALVE |
| ⑦ INTAKE AIR TEMPERATURE (IAT) SENSOR | ②⑦ EXHAUST GAS RECIRCULATION (EGR) CONTROL
SOLENOID VALVE |
| ⑧ FRONT KNOCK SENSOR (KS2) | ②⑧ EVAPORATIVE EMISSION (EVAP) CONTROL CANISTER |
| ⑨ REAR KNOCK SENSOR (KS1) | ②⑨ EVAPORATIVE EMISSION (EVAP) PURGE CONTROL
SOLENOID VALVE |
| ⑩ AIR CLEANER (ACL) | ③① EVAPORATIVE EMISSION (EVAP) CONTROL CANISTER
VENT SHUT VALVE |
| ⑪ FUEL INJECTOR | ③② EVAPORATIVE EMISSION (EVAP) BYPASS SOLENOID
VALVE |
| ⑫ FUEL PRESSURE REGULATOR | ③③ EVAPORATIVE EMISSION (EVAP) TWO WAY VALVE |
| ⑬ FUEL FILTER | ③④ FUEL TANK PRESSURE SENSOR |
| ⑭ FUEL PUMP (FP) | ③⑤ THROTTLE BODY (TB) |
| ⑮ FUEL TANK | ③⑥ RESONATOR |
| ⑯ ONBOARD REFUELING VAPOR RECOVERY (ORVR)
VAPOR RECIRCULATION VALVE | ③⑦ EVAPORATIVE EMISSION (EVAP) CONTROL CANISTER
FILTER |
| ⑰ INTAKE AIR BYPASS (IAB) CHECK VALVE | ③⑧ ONBOARD REFUELING VAPOR RECOVERY (ORVR) RECIR-
CULATION VALVE |
| ⑱ INTAKE AIR BYPASS (IAB) VACUUM TANK | ③⑨ AIR CONTROL SOLENOID VALVE |
| ⑲ INTAKE AIR BYPASS (IAB) CONTROL SOLENOID VALVE | ③⑩ AIR CONTROL VALVE |
| ⑳ INTAKE AIR BYPASS (IAB) CONTROL DIAPHRAGM | ④① AIR PUMP |