

2002 ENGINE PERFORMANCE**Vacuum Diagrams****INTRODUCTION**

This article contains underhood views or schematics of vacuum hose routing. Use these vacuum diagrams during the visual inspection in BASIC DIAGNOSTIC PROCEDURES article. This will assist in identifying improperly routed vacuum hoses, which cause driveability and/or computer-indicated malfunctions.

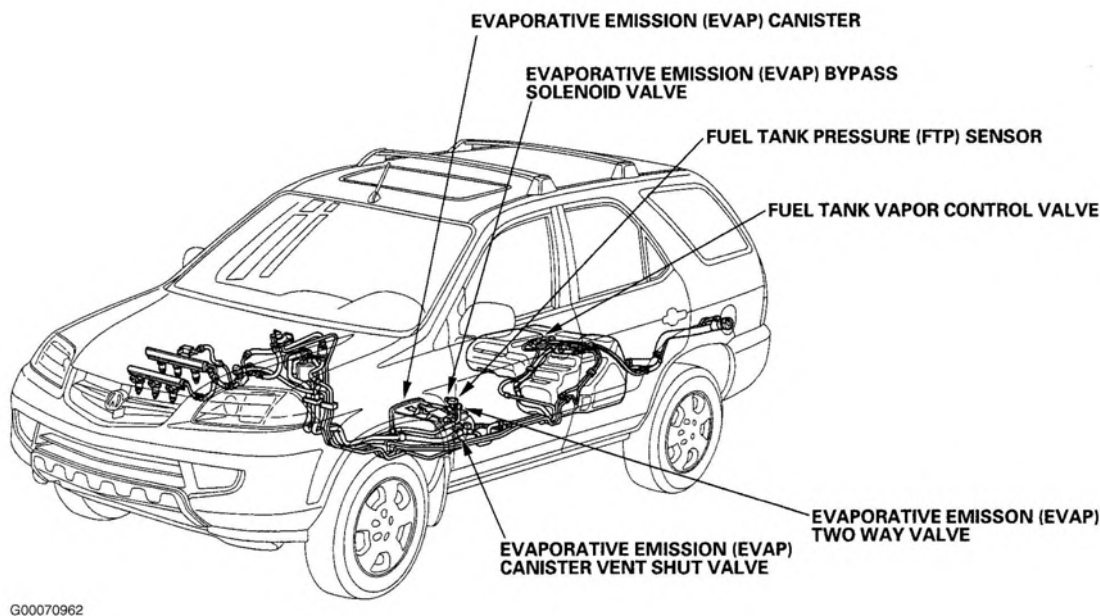
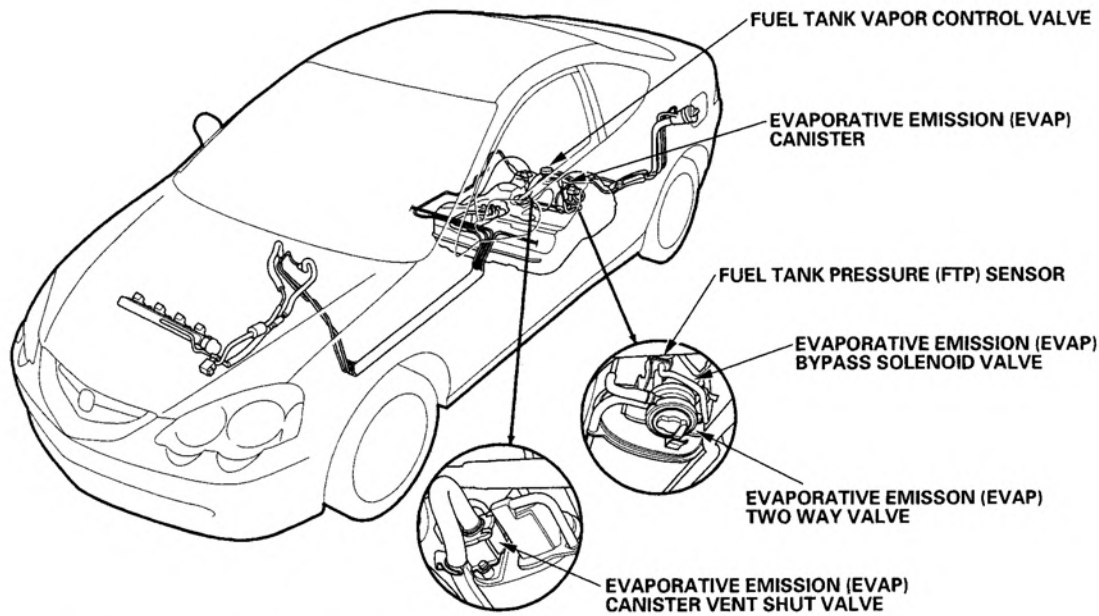


Fig. 1: Evaporative Emission Control System Vacuum Diagram (MDX)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

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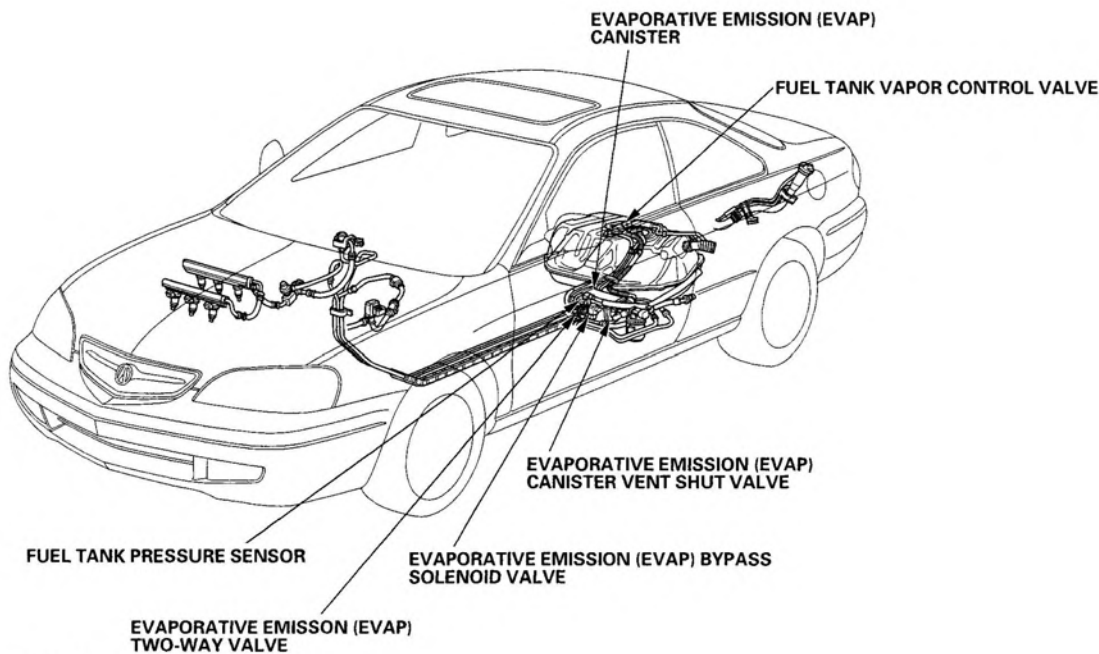


NOTE: The illustration shows the K20A3 engine; the K20A2 engine is similar.

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Fig. 2: Evaporative Emission Control System Vacuum Diagram (RSX)

Courtesy of AMERICAN HONDA MOTOR CO., INC.



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Fig. 3: Evaporative Emission Control System Vacuum Diagram (3.2CL)

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Courtesy of AMERICAN HONDA MOTOR CO., INC.

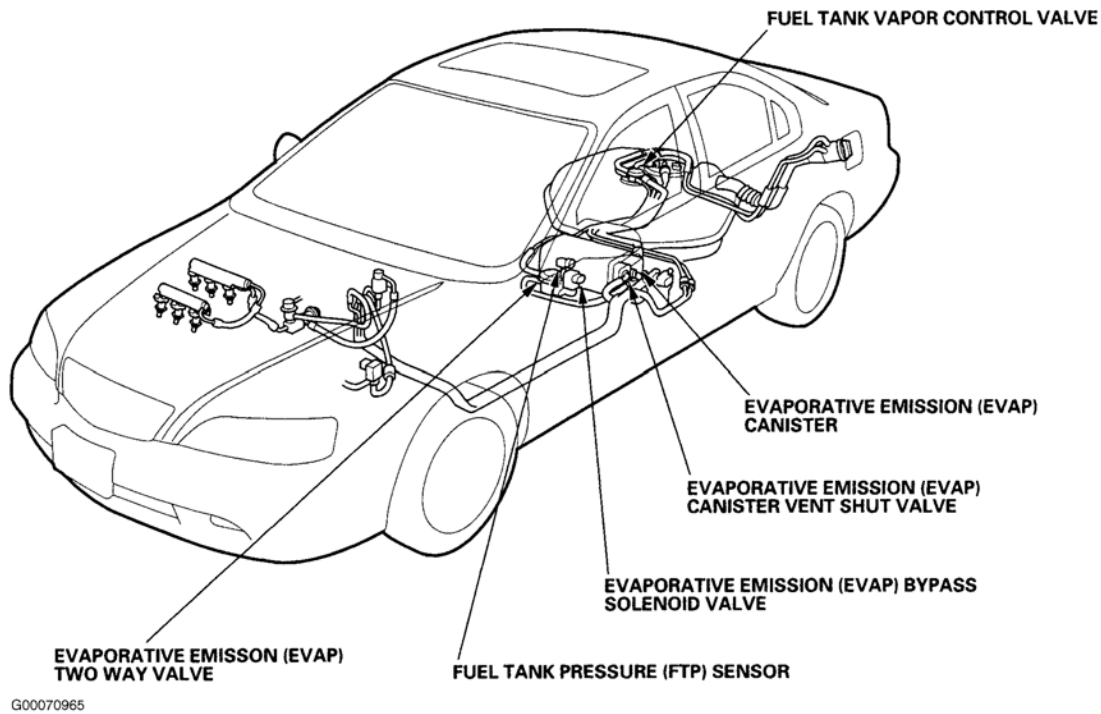
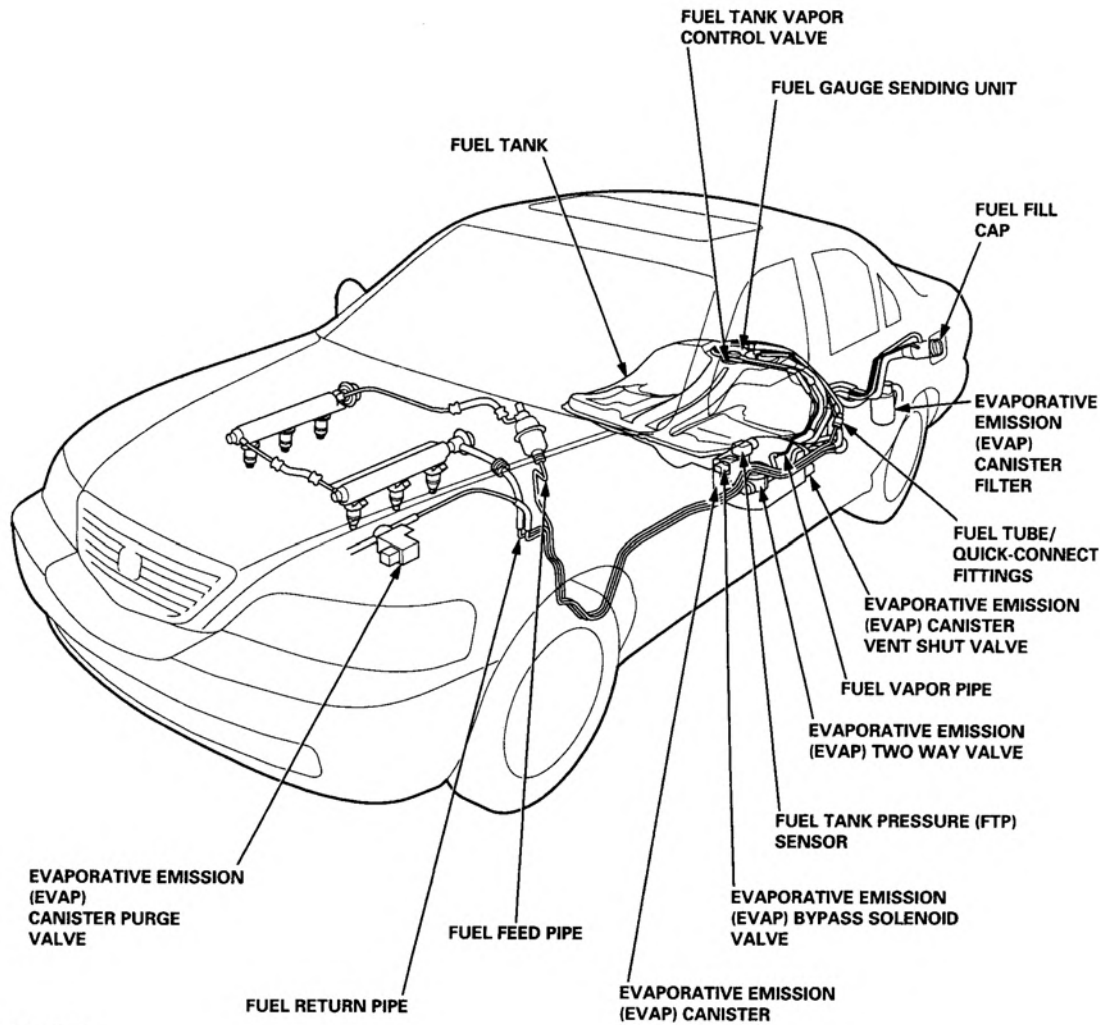


Fig. 4: Evaporative Emission Control System Vacuum Diagram (3.2TL)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

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Fig. 5: Evaporative Emission Control System Vacuum Diagram (3.5RL)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

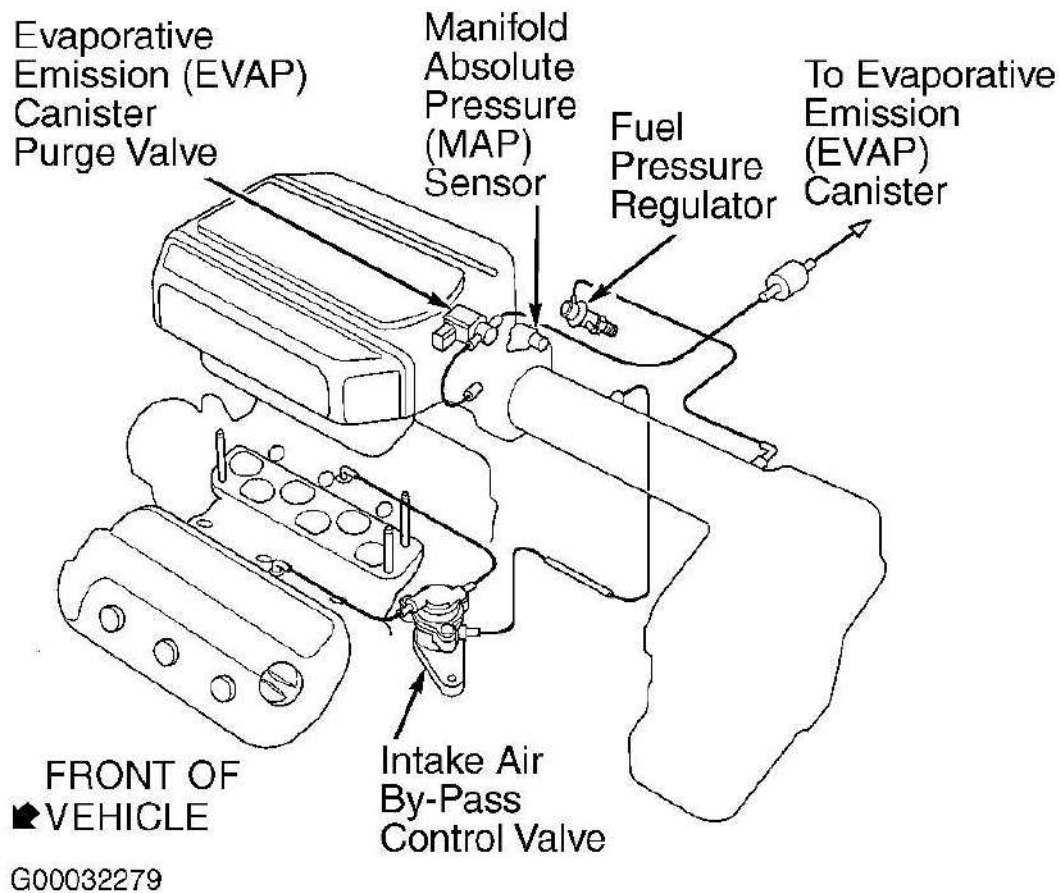
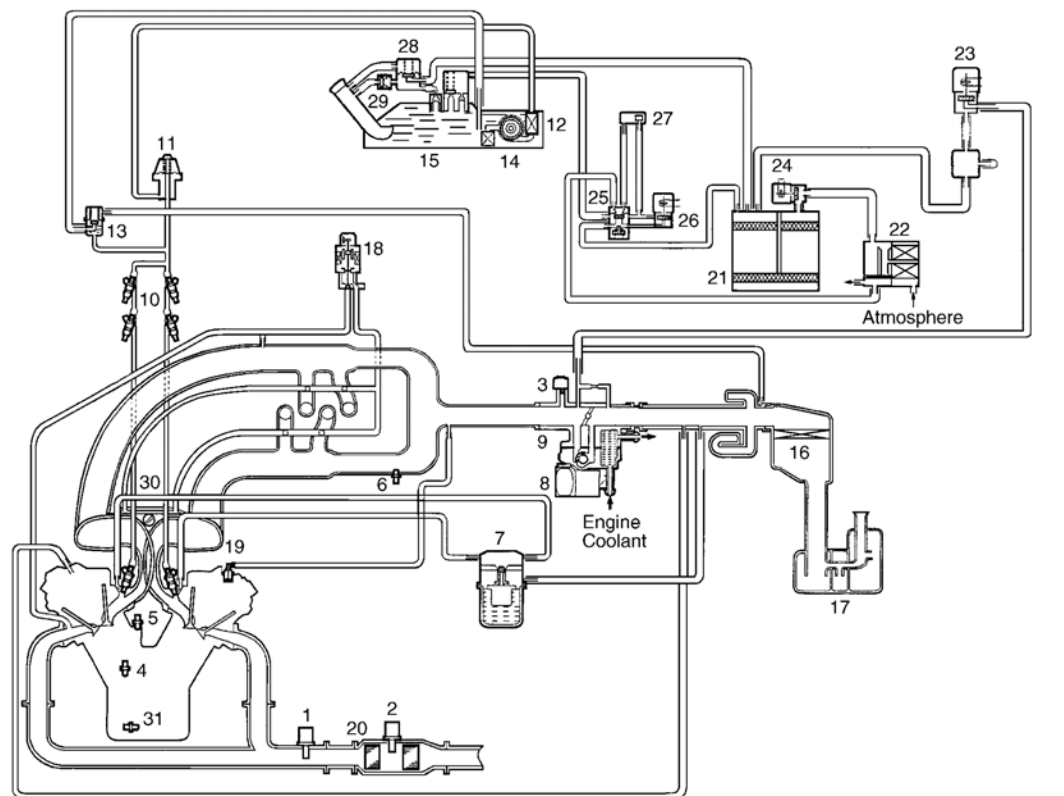


Fig. 6: Vacuum Diagram (MDX - 1 Of 2)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.



- | | | |
|---|---|--|
| 1. Primary Heated Oxygen Sensor (Primary HO2S) (Sensor 1) | 13. Fuel Pressure Regulator | 23. Evaporative Emission (EVAP) Canister Purge Valve |
| 2. Secondary Heated Oxygen Sensor (Secondary HO2S) (Sensor 2) | 14. Fuel Pump | 24. Evaporative Emission (EVAP) Canister Vent Shut Valve |
| 3. Manifold Absolute Pressure (MAP) Sensor | 15. Fuel Tank | 25. Evaporative Emission (EVAP) 2-Way Valve |
| 4. Engine Coolant Temperature (ECT) Sensor | 16. Air Cleaner | 26. Evaporative Emission (EVAP) By-Pass Solenoid Valve |
| 5. Knock Sensor | 17. Resonator | 27. Fuel Tank Pressure (FTP) Sensor |
| 6. Intake Air Temperature (IAT) Sensor | 18. Exhaust Gas Recirculation (EGR) Valve & Position Sensor | 28. Fuel Tank Vapor Control Valve |
| 7. Intake Air By-Pass Control Valve | 19. Positive Crankcase Ventilation (PCV) Valve | 29. Fuel Tank Vapor Recirculation Valve |
| 8. Idle Air Control (IAC) Valve | 20. 3-Way Catalytic Converter | 30. Intake Manifold Runner Control (IMRC) Valve |
| 9. Throttle Body | 21. Evaporative Emission (EVAP) Canister | 31. ATF Temperature Sensor |
| 10. Injector | 22. Evaporative Emission (EVAP) Canister Filter | |
| 11. Fuel Pulsation Damper | | |
| 12. Fuel Filter | | |

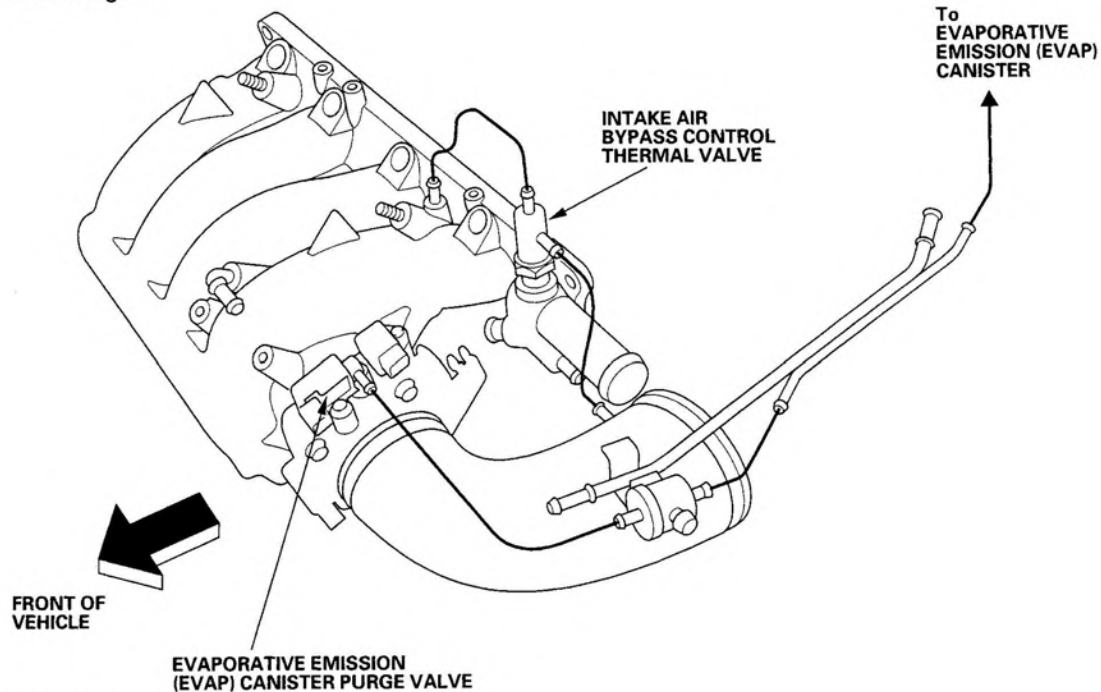
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Fig. 7: Vacuum Diagram (MDX - 2 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

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K20A2 engine



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Fig. 8: Vacuum Diagram (RSX - 1 Of 4)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

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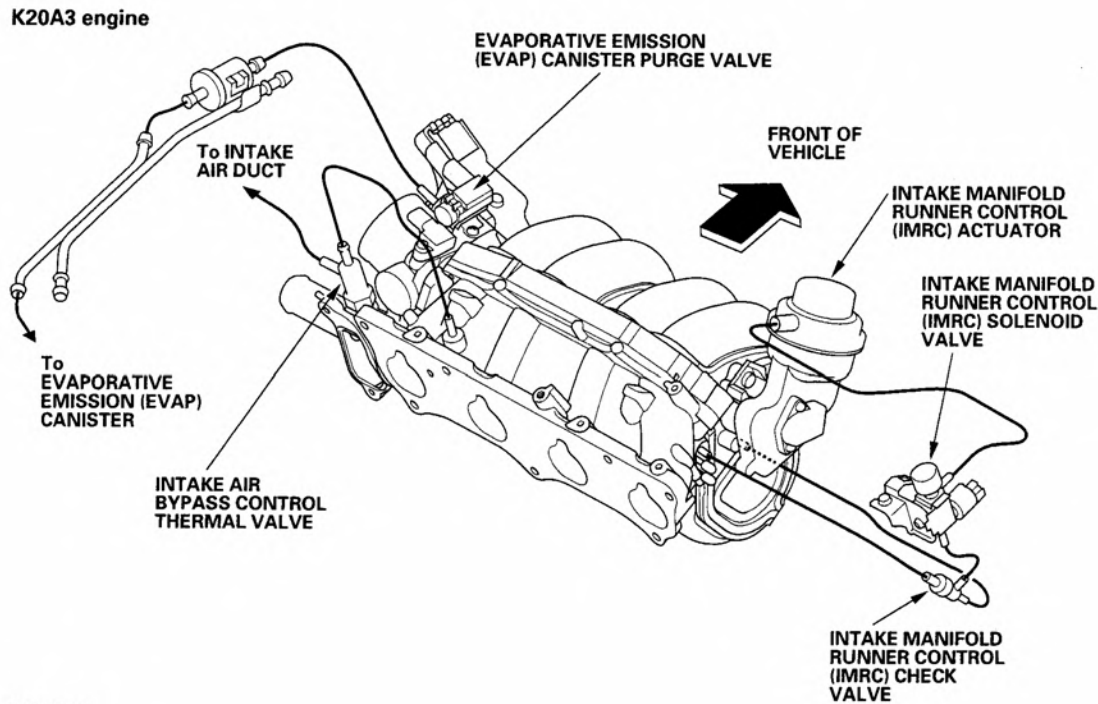
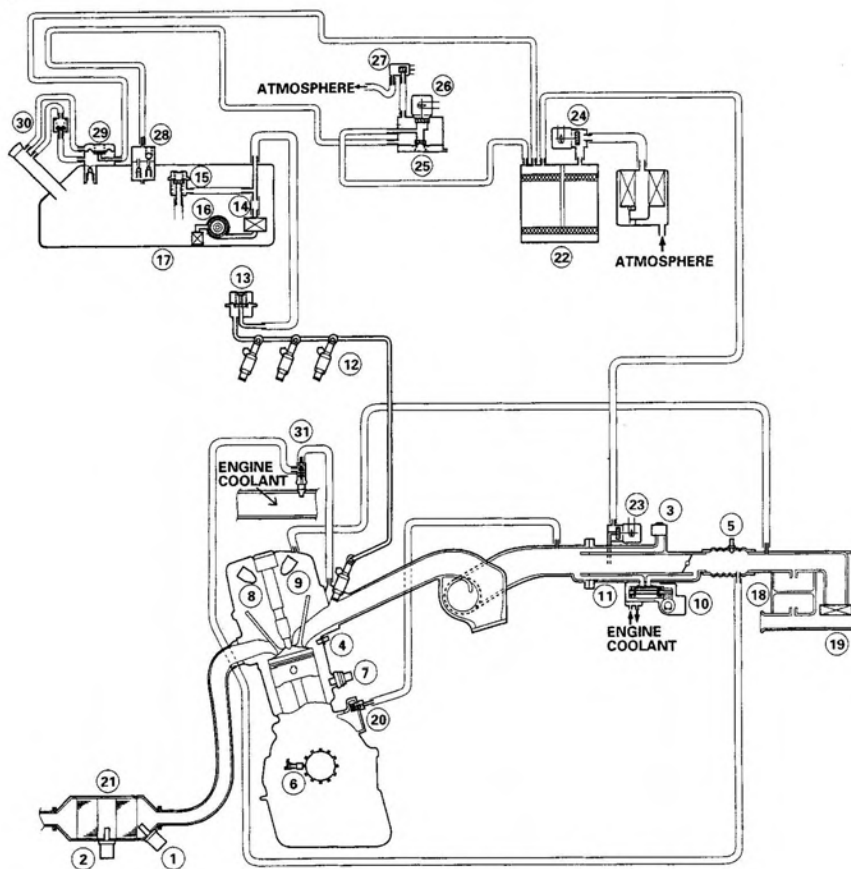


Fig. 9: Vacuum Diagram (RSX - 2 Of 4)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

K20A2 engine



- ① AIR FUEL RATIO (A/F) SENSOR (SENSOR 1)
- ② SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S) (SENSOR 2)
- ③ MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR
- ④ ENGINE COOLANT TEMPERATURE (ECT) SENSOR
- ⑤ INTAKE AIR TEMPERATURE (IAT) SENSOR
- ⑥ CRANKSHAFT POSITION (CKP) SENSOR
- ⑦ KNOCK SENSOR
- ⑧ CAMSHAFT POSITION (CMP) SENSOR
- ⑨ TOP DEAD CENTER (TDC) SENSOR
- ⑩ IDLE AIR CONTROL (IAC) VALVE
- ⑪ THROTTLE BODY
- ⑫ INJECTOR
- ⑬ FUEL PULSATION DAMPER
- ⑭ FUEL FILTER
- ⑮ FUEL PRESSURE REGULATOR
- ⑯ FUEL PUMP
- ⑰ FUEL TANK

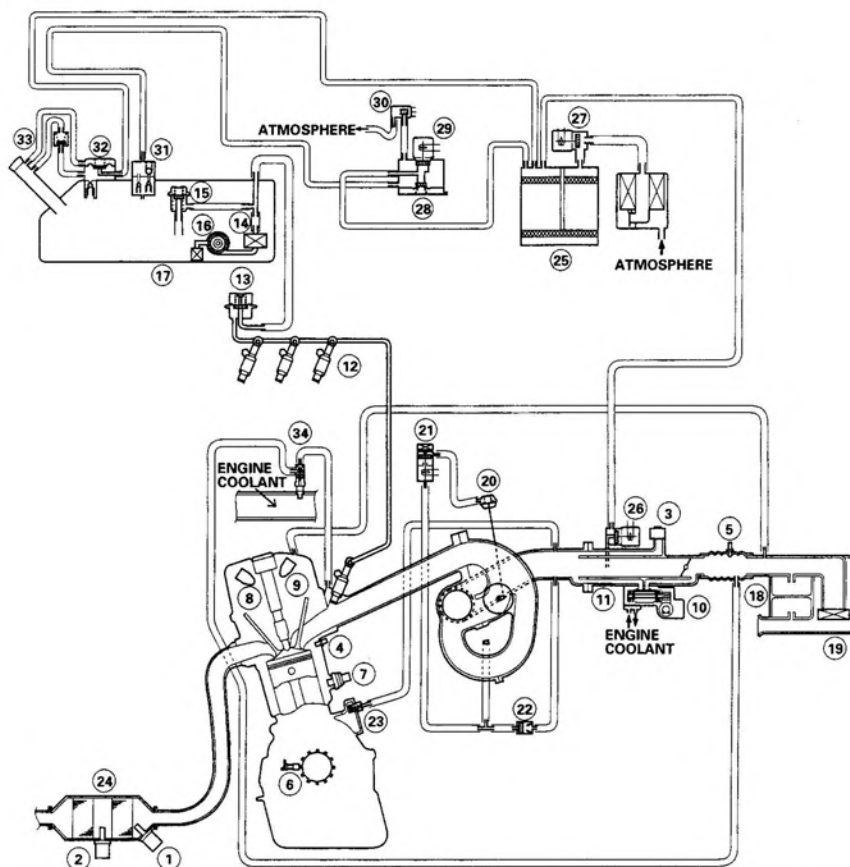
- ⑱ RESONATOR
- ⑲ AIR CLEANER
- ⑳ POSITIVE CRANKCASE VENTILATION (PCV) VALVE
- ㉑ THREE WAY CATALYTIC CONVERTER
- ㉒ EVAPORATIVE EMISSION (EVAP) CANISTER
- ㉓ EVAPORATIVE EMISSION (EVAP) CANISTER PURGE VALVE
- ㉔ EVAPORATIVE EMISSION (EVAP) CANISTER VENT SHUT VALVE
- ㉕ EVAPORATIVE EMISSION (EVAP) TWO WAY VALVE
- ㉖ EVAPORATIVE EMISSION (EVAP) BYPASS SOLENOID VALVE
- ㉗ FUEL TANK PRESSURE (FTP) SENSOR
- ㉘ EVAPORATIVE EMISSION (EVAP) VALVE
- ㉙ FUEL TANK VAPOR CONTROL VALVE
- ㉚ FUEL TANK VAPOR RECIRCULATION VALVE
- ㉛ INTAKE AIR BYPASS CONTROL THERMAL VALVE

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Fig. 10: Vacuum Diagram (RSX - 3 Of 4)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

K20A3 engine



- ① AIR FUEL RATIO (A/F) SENSOR (SENSOR 1)
- ② SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S) (SENSOR 2)
- ③ MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR
- ④ ENGINE COOLANT TEMPERATURE (ECT) SENSOR
- ⑤ INTAKE AIR TEMPERATURE (IAT) SENSOR
- ⑥ CRANKSHAFT POSITION (CKP) SENSOR
- ⑦ KNOCK SENSOR
- ⑧ CAMSHAFT POSITION (CMP) SENSOR
- ⑨ TOP DEAD CENTER (TDC) SENSOR
- ⑩ IDLE AIR CONTROL (IAC) VALVE
- ⑪ THROTTLE BODY
- ⑫ INJECTOR
- ⑬ FUEL PULSATION DAMPER
- ⑭ FUEL FILTER
- ⑮ FUEL PRESSURE REGULATOR
- ⑯ FUEL PUMP
- ⑰ FUEL TANK
- ⑱ RESONATOR
- ⑲ AIR CLEANER

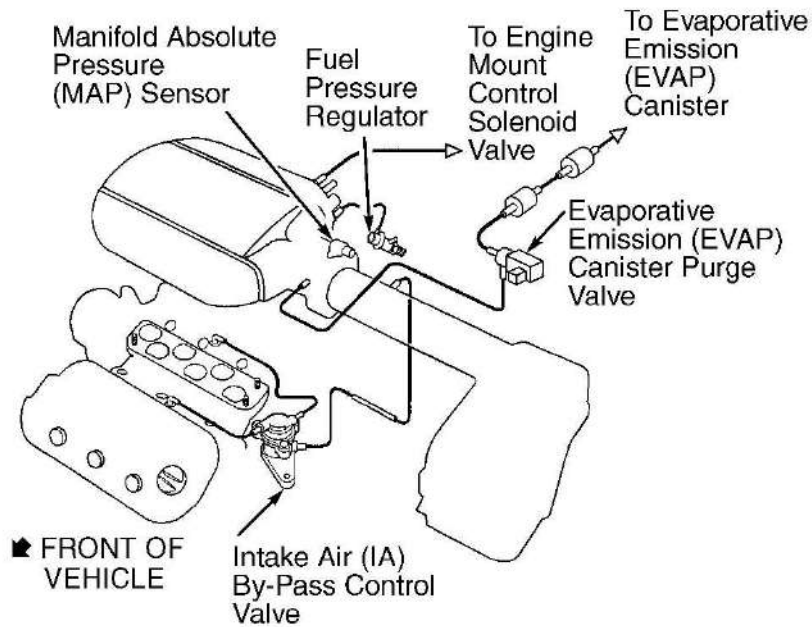
- ⑳ INTAKE MANIFOLD RUNNER CONTROL (IMRC) ACTUATOR
- ㉑ INTAKE MANIFOLD RUNNER CONTROL (IMRC) SOLENOID VALVE
- ㉒ INTAKE MANIFOLD RUNNER CONTROL (IMRC) CHECK VALVE
- ㉓ POSITIVE CRANKCASE VENTILATION (PCV) VALVE
- ㉔ THREE WAY CATALYTIC CONVERTER
- ㉕ EVAPORATIVE EMISSION (EVAP) CANISTER
- ㉖ EVAPORATIVE EMISSION (EVAP) CANISTER PURGE VALVE
- ㉗ EVAPORATIVE EMISSION (EVAP) CANISTER VENT SHUT VALVE
- ㉘ EVAPORATIVE EMISSION (EVAP) TWO WAY VALVE
- ㉙ EVAPORATIVE EMISSION (EVAP) BYPASS SOLENOID VALVE
- ㉚ FUEL TANK PRESSURE (FTP) SENSOR
- ㉛ EVAPORATIVE EMISSION (EVAP) VALVE
- ㉜ FUEL TANK VAPOR CONTROL VALVE
- ㉝ FUEL TANK VAPOR RECIRCULATION VALVE
- ㉞ INTAKE AIR BYPASS CONTROL THERMAL VALVE

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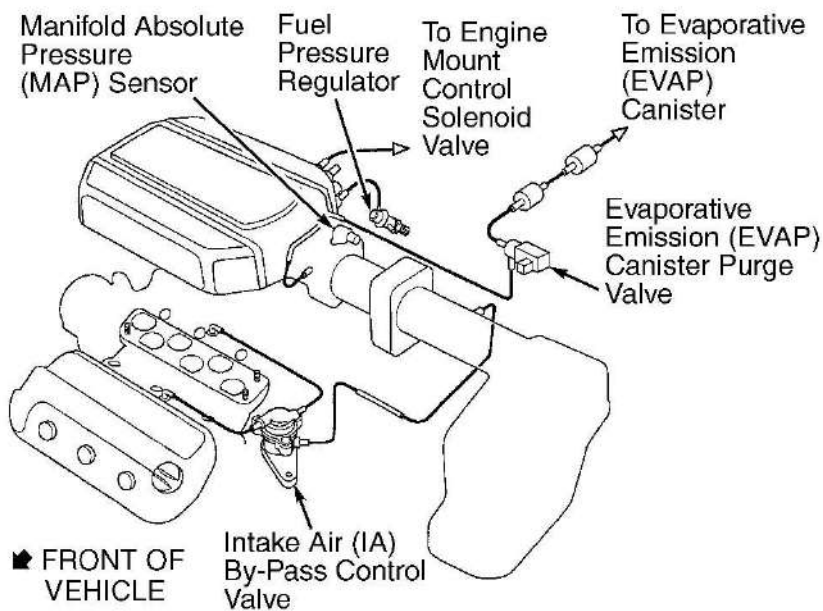
Fig. 11: Vacuum Diagram (RSX - 4 Of 4)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

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J32A1 ENGINE

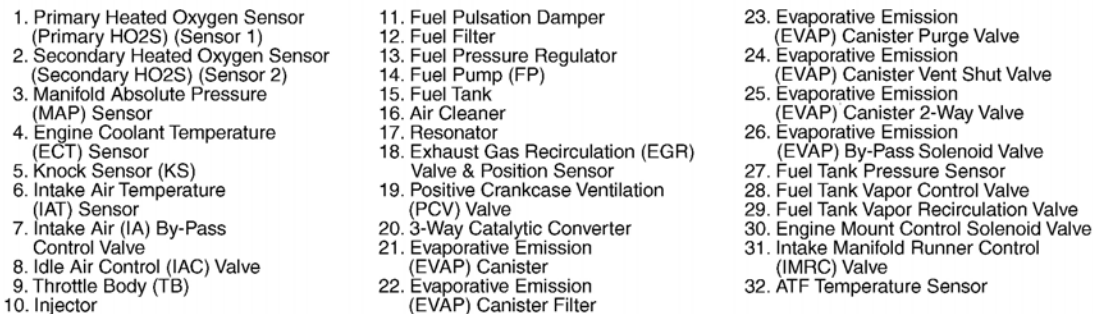


J32A2 ENGINE

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Fig. 12: Vacuum Diagram (3.2CL & 3.2TL - 1 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

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Fig. 13: Vacuum Diagram (3.2CL & 3.2TL - 2 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

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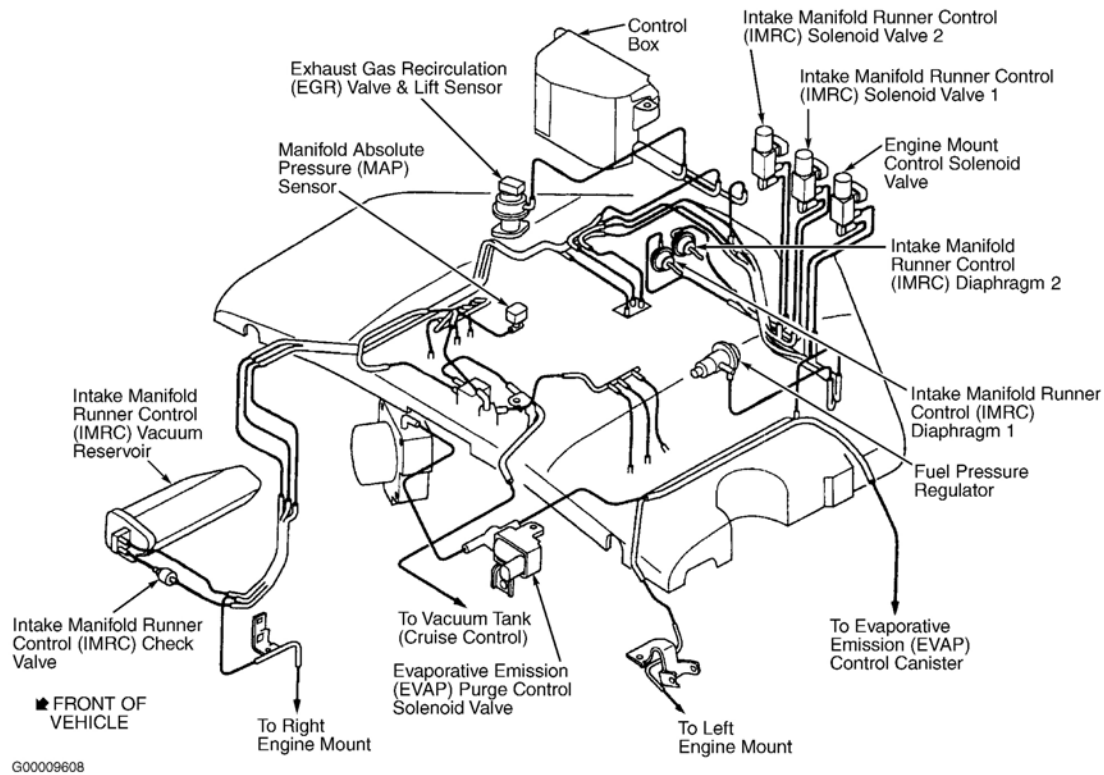


Fig. 14: Vacuum Diagram (3.5RL - 1 Of 2)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

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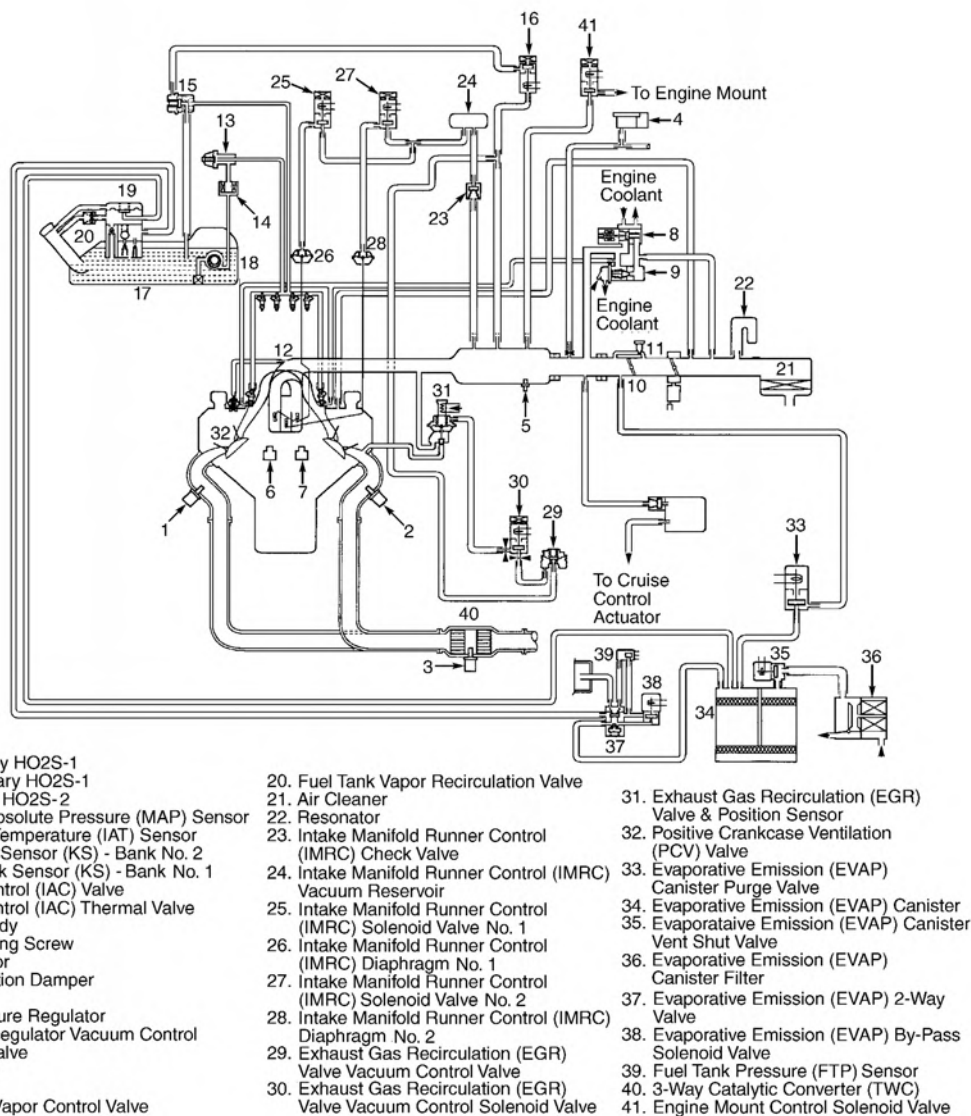


Fig. 15: Vacuum Diagram (3.5RL - 2 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.