

# EMISSION CONTROL APPLICATION

## 2001 Chevrolet Camaro

2001 ENGINE PERFORMANCE  
Emission Applications - Cars

### EMISSION APPLICATIONS

#### 2001 GENERAL MOTORS (CARS)

Engine & Fuel System (1)(2) Emission Control Systems & Devices

##### 1.3L (79")

4-Cyl. SFI (VIN 2)

Metro ..... PCV, (3) EVAP, TWC, (4) WU-TWC, FR, (3) SPK, (5)  
HO2S, CEC, (3) MIL  
EVAP-CPCSV, EVAP-CVCSV, EVAP-FTPCSV,  
EVAP-FTPS, EVAP-FVS, EVAP-ORVR, EVAP-VC,  
EVAP-VCF, FF-CKV

##### 1.8L (110")

4-Cyl. SFI (VIN 8)

Prizm ..... PCV, (3) EVAP, TWC, FR, (3) SPK, (5) HO2S,  
CEC, (3) MIL  
EVAP-CPCSV, EVAP-CVCSV, EVAP-FTPS, EVAP-ORVR,  
EVAP-PSSV, EVAP-VC, FF-CKV

##### 1.9L (116")

4-Cyl. SFI (VIN 7 & 8)

Saturn "S" Series .. PCV, (3) EVAP, TWC, FR, (3) EGR, (3) SPK, (6)  
HO2S, (7) O2S, (3) (8) AP, CEC, (3) MIL  
AP-CKV, AP-CV, AP-EAP, AP-ERLY, AP-VCSV,  
EVAP-CPCSV, EVAP-CVCSV, EVAP-FTPS, EVAP-ORVR,  
EVAP-ORVRFTVRV, EVAP-VC, FF-CKV, FT-FLVV,  
FT-GVV, (9) KS

##### 2.2L (134")

4-Cyl. SFI (VIN F)

Saturn "L" Series ..... PCV, (3) EVAP, TWC, FR, (3) SPK, (6) HO2S,  
(7) O2S, CEC, (3) MIL  
EVAP-CPCSV, EVAP-CVCSV, EVAP-FTPS, EVAP-ORVR,  
EVAP-ORVRFTVRV, EVAP-VC, FT-FLVV, FT-GVV, KS

##### 2.2L (134")

4-Cyl. SFI (VIN 4)

Cavalier & Sunfire .... PCV, (3) EVAP, TWC, FR, (3) SPK, (6) HO2S,  
(7) O2S, CEC, (3) MIL EVAP-CPCSV,  
EVAP-CVCSV, EVAP-RV/FTPS, EVAP-VC, KS

##### 2.4L (146")

4-Cyl. SFI (VIN T)

Alero, Cavalier,  
Grand Am & Sunfire ... PCV, (3) EVAP, TWC, FR, (3) SPK, (6) HO2S,  
(7) O2S, CEC, (3) MIL EVAP-CPCSV,  
EVAP-CVCSV, EVAP-RV/FTPS, EVAP-VC,  
FF-CKV, FT-FLVV, KS

##### 3.0L (181") V6

SFI (VIN R) Catera .....

PCV, (3) EVAP, (10) TWC, FR, (3) SPK,  
(11) HO2S, (3) (8) AP, CEC, (3) MIL  
AP-CKV, AP-CV, AP-EAP, AP-ERLY, AP-VCSV,  
EVAP-CPCSV, EVAP-CVCSV, EVAP-ORVR,  
EVAP-RV/FTPS, EVAP-VC, FF-CKV, FT-FLVV, (12) KS

##### 3.0L (183") V6

SFI (VIN R)

Saturn "L" Series ..... PCV, (3) EVAP, (13) WU-TWC, FR, (3) EGR,  
(3) SPK, (14) HO2S, CEC, (3) MIL  
EVAP-CPCSV, EVAP-CVCSV, EVAP-FTPS, EVAP-ORVR,  
EVAP-VC, FF-CKV, FT-FLVV, FT-GVV, (12) KS

3.1L (181") V6  
SFI (VIN J)  
Century, Grand Prix,  
Lumina & Malibu ..... PCV, (3) EVAP, TWC, FR, (3) EGR, (3) SPK,  
(5) HO2S, (3) (8) AP, CEC, (3) MIL  
(15) AP-CKV, AP-EAP, AP-ERLY, AP-VCSV,  
EVAP-CPCSV, EVAP-CVCSV, EVAP-ORVR,  
EVAP-RV/FTPS, EVAP-VC, KS

3.4L (208") V6  
SFI (VIN E)  
Alero & Grand Am ..... PCV, (3) EVAP, TWC, FR, (3) EGR, (3) SPK,  
(5) HO2S, CEC, (3) MIL EVAP-CPCSV,  
EVAP-CVCSV, EVAP-RV/FTPS, EVAP-VC, KS

Impala & Monte  
Carlo ..... PCV, (3) EVAP, TWC, FR, (3) EGR, (3) SPK, (3)  
(8) AP, (5) HO2S, CEC, (3) MIL  
(15) AP-CKV, AP-EAP, AP-ERLY, AP-VCSV,  
EVAP-CPCSV, EVAP-CVCSV, EVAP-RV/FTPS, EVAP-VC, KS

3.5L (212") V6  
SFI (VIN H)  
Aurora & Intrigue .. PCV, (3) EVAP, TWC, FR, (3) EGR, (3) SPK. (3)  
(8) AP, (5) HO2S, CEC, (3) MIL  
AP-CKV, AP-EAP, (15) AP-ERLY, AP-VCSV,  
EVAP-CPCSV, EVAP-CVCSV, EVAP-FTPS, EVAP-ORVR,  
EVAP-VC, FF-CKV, FT-FLVV, KS

3.8L (231") V6  
SFI (VIN K)  
Bonneville, LeSabre &  
Park Avenue ..... PCV, (3) EVAP, TWC, FR, (3) EGR, (3) SPK,  
(3) (8) AP, (5) HO2S, CEC, (3) MIL  
AP-CKV, AP-EAP, AP-ERLY, AP-SOV, AP-VCSV,  
EVAP-CPCSV, EVAP-CVCSV, EVAP-ORVR,  
EVAP-RV/FTPS, EVAP-VC, (12) KS

Camaro & Firebird ..... PCV, (3) EVAP, TWC, FR, (3) EGR, (3) SPK,  
(16) HO2S, CEC, (3) MIL EVAP-CPCSV,  
EVAP-CVCSV, EVAP-RV/FTPS, EVAP-VC, (12) KS

Grand Prix, Impala,  
Monte Carlo & Regal ... PCV, (3) EVAP, TWC, FR, (3) EGR, (3) SPK,  
(3) (8) AP, (5) HO2S, CEC, (3) MIL  
AP-CKV, AP-EAP, AP-ERLY, AP-SOV, AP-VCSV,  
EVAP-CPCSV, EVAP-CVCSV, EVAP-RV/FTPS, EVAP-VC,  
(12) KS

3.8L (231") V6  
SFI SC (VIN 1)  
Bonneville, Grand Prix,  
Park Avenue & Regal ..... PCV, (3) EVAP, TWC, FR, (3) EGR,  
(3) SPK, (5) HO2S, CEC, (3) MIL  
EVAP-CPCSV, EVAP-CVCSV, (4) EVAP-ORVR,  
EVAP-RV/FTPS, EVAP-VC, (12) KS

4.0L (244") V8  
SFI (VIN C)  
Aurora ..... PCV, (3) EVAP, TWC, FR, (3) EGR, (3) SPK, (3)  
(8) (17) AP, (16) HO2S, CEC, (3) MIL, (15)  
AP-CKV, (17) AP-EAP, (18) AP-ERLY, AP-VCSV,  
EVAP-CPCSV, EVAP-CVCSV, EVAP-RV/FTPS, EVAP-VC, KS

4.6L (279") V8  
SFI (VIN Y & 9)  
DeVille, Eldorado &  
Seville ..... PCV, (3) EVAP, TWC, FR, (3) EGR, (3) SPK,  
(3) (8) AP, (16) HO2S, CEC, (3) MIL (15) AP-CKV,  
AP-EAP, AP-ERLY, AP-SOV, AP-VCSV, EVAP-CPCSV,  
EVAP-CVCSV, EVAP-RV/FTPS, EVAP-VC,  
FF-CKV, FT-FLVV, KS

5.7L (346") V8

SFI (VIN G)

Camaro & Firebird ..... PCV, (3) EVAP, (10) TWC, FR, (3) EGR,  
(3) SPK, (3) (8) AP, (11) HO2S, CEC, (3) MIL  
(15) AP-CKV, AP-EAP, AP-ERLY, AP-SOV, AP-VCSV,  
EVAP-CPCSV, EVAP-CVCSV, EVAP-ORVR,  
EVAP-RV/FTPS, EVAP-VC, FF-CKV, FT-FLVV,  
FT-OPRV, (12) KS

5.7L (346") V8

SFI (VIN G & S)

Corvette ..... PCV, (3) EVAP, (10) TWC, FR, (3) SPK, (3) (8)  
AP, (11) HO2S, CEC, (3) MIL  
(15) AP-CKV, AP-EAP, AP-ERLY, AP-SOV, AP-VCSV,  
EVAP-CPCSV, EVAP-CVCSV, EVAP-ORVR,  
EVAP-RV/FTPS, EVAP-VC, FF-CKV, FT-FLVV, (12) KS

- (1) - For quick reference, major emission control systems and devices are listed in bold type; components and other related devices are listed in light type. For definition of emissions equipment abbreviations, see ABBREVIATIONS.
- (2) - Federal or California refers to installed emissions equipment. California emissions models may be available in all states.
- (3) - PCM-controlled.
- (4) - If equipped.
- (5) - Equipped with 2 sensors; one installed in exhaust pipe below exhaust manifold and one installed in exhaust pipe after catalytic converter.
- (6) - HO2S is mounted in exhaust pipe after catalytic converter.
- (7) - O2S is mounted in exhaust pipe below exhaust manifold.
- (8) - May be California models only.
- (9) - Dual Overhead Cam (DOHC) engine only.
- (10) - Equipped with 2 three-way catalytic converters.
- (11) - Equipped with 4 sensors; one installed in each exhaust pipe below exhaust manifold and one installed in each exhaust pipe after catalytic converter.
- (12) - Equipped with 2 knock sensors; one on each side of engine.
- (13) - Equipped with 2 warm-up catalytic converters; one in each exhaust stream.
- (14) - Equipped with 4 sensors; one installed in each exhaust pipe below exhaust manifold and one installed in each exhaust pipe after warm-up catalytic converter.
- (15) - Equipped with 2 check valves.
- (16) - Equipped with 3 sensors; one installed in each exhaust pipe below exhaust manifold and one installed in exhaust pipe after catalytic converter.
- (17) - Early production models are equipped with 2 air pump systems.
- (18) - Early production models are equipped with 2 relays.
- (19) - Camaro and Firebird only.

**ABBREVIATIONS**

- AP - Air Pump Injection System.
- AP-CKV - AP Check Valve.
- AP-CV - AP Cut-Off Valve.
- AP-EAP - AP Electric Air Pump.
- AP-ERLY - AP Electric Relay.
- AP-SOV - AP Shutoff Valve.
- AP-VCSV - AP Vacuum Control Solenoid Valve.
- CEC - Computerized Engine Controls.
- EGR - Exhaust Gas Recirculation System.
- EVAP - Fuel Evaporative System.
- EVAP-CPCSV - EVAP Canister Purge Control Solenoid Valve.

EVAP-CVCSV - EVAP Canister Vent Control Solenoid Valve.  
EVAP-FTPCSV - EVAP Fuel Tank Pressure Control Solenoid Valve.  
EVAP-FTPS - EVAP Fuel Tank Pressure Sensor.  
EVAP-FVS - EVAP Fuel Vapor Separator.  
EVAP-ORVR - EVAP On-Board Refueling Vapor Recovery.  
EVAP-ORVRFTVRV - EVAP-ORVR Fuel Tank Vapor Recirculation Valve.  
EVAP-PSSV - EVAP Pressure Switching Solenoid Valve.  
EVAP-RV/FTPS - EVAP Rollover Valve/Fuel Tank Pressure Sensor.  
EVAP-VC - EVAP Vapor Canister.  
EVAP-VCF - EVAP Vapor Canister Filter.  
FF-CKV - Fuel Fill Check Valve.  
FR - Fill Pipe Restrictor.  
FT-FLVV - Fuel Tank Fill Limit Vent Valve.  
FT-GVV - Fuel Tank Grade Vent Valve.  
FT-OPRV - Fuel Tank Over Pressure Vent Valve.  
HO2S - Heated Oxygen Sensor.  
KS - Knock Sensor.  
MIL - Malfunction Indicator Light.  
O2S - Oxygen Sensor.  
PCV - Positive Crankcase Ventilation.  
SC - Supercharged.  
SFI - Sequential Fuel Injection.  
SPK - Spark Controls.  
TWC - Three-Way Catalytic Converter.  
WU-TWC - Warm-Up TWC.