

B - EMISSION APPLICATION

1998 Pontiac Bonneville

1998 ENGINE PERFORMANCE
General Motors Corp. - Emission Applications

All Model Cars

EMISSION APPLICATIONS

EMISSION APPLICATIONS - METRO, PRIZM & TRACKER (1)

Engine & Fuel System	Major Control Systems/Devices	Components/Other Related Devices
1.0L 3-Cyl. TBI	PCV, EVAP, TWC, (3) WU-TWC, FR, EGR, (3) EFE, SPK, HO2S, CEC, MIL	(2) EVAP-CVPV, EVAP-TPCV, BP/EGR-PT, EGR-BV, EGR-SVV, SPK-CC
1.3L 4-Cyl. TBI	PCV, EVAP, TWC, (3) WU-TWC, FR, EGR, (3) EFE, SPK, HO2S, CEC, MIL	(3) EVAP-CSPV, (2) EVAP-CVPV, EVAP-TPCV, EVAP-VC, (2) EVAP-TVV, BP/EGR-PT, EGR-BV, EGR-SVV, SPK-CC
1.6L 4-Cyl. SFI	PCV, EVAP, TWC, FR, EGR, SPK, O2S, HO2S, CEC, MIL	EVAP-VC, EVAP-TVV, BP/EGR-PT, EGR-VRSV, SPK-CC
1.8L 4-Cyl. SFI	PCV, EVAP, TWC, FR, EGR, SPK, O2S, HO2S, CEC, MIL	EVAP-VC, EVAP-TVV, BP/EGR-PT, EGR-VRSV, SPK-CC
(1) - Federal or Calif. refers to installed emissions equipment. Calif. emissions models may be available in all states. (2) - Federal emissions only. (3) - California emissions only.		

EMISSION APPLICATIONS - ALL OTHERS

Engine & Fuel System	Major Control Systems/Devices	Components/Other Related Devices
1.9L (116") 4-Cyl. SFI (VIN 7 & 8)	PCV, EVAP, TWC, FR, (1)(2) EGR, (1) SPK, O2S, HO2S, CEC, (1) MIL	EVAP-VC, (1) EVAP-CPCS, (1) SPK-ESC, (1) SPK-EST
2.2L (133") 4-Cyl. SFI (VIN 4)	PCV, EVAP, TWC, FR, (1)(2) EGR, (1) SPK, O2S, HO2S, CEC, (1) MIL	EVAP-VC, (1) EVAP-CPCS, (1) SPK-ESC, (1) SPK-EST
2.4L (151") 4-Cyl. SFI (VIN T)	PCV, EVAP, TWC, FR, (1)(2) EGR, (1) SPK, O2S, HO2S, CEC, (1) MIL	EVAP-VC, (1) EVAP-CPCS, (1) SPK-ESC, (1) SPK-EST
3.0L (181") V6 SFI (VIN R)	PCV, EVAP, TWC, FR, (1) SPK, AP, (3) HO2S, CEC, (1) MIL	EVAP-VC, (1) EVAP-CPCS, EVAP-CPCV, (1) SPK-ESC, (1) SPK-EST, (1) AP-EAP, AP-CKV,

		(1) AP-ERLY
3.1L (181") V6 SFI (VIN M)	PCV, EVAP, TWC, FR, (1)(2) EGR, (1) SPK, (3) HO2S, CEC, (1) MIL	EVAP-VC, (1) EVAP-CPCS, (1) SPK-ESC, (1) SPK-EST
3.4L (204") V6 SFI (VIN X)	PCV, EVAP, TWC, FR, (1)(2) EGR, (1) SPK, (3) HO2S, CEC, (1) MIL	EVAP-VC, (1) EVAP-CPCS, (1) SPK-ESC, (1) SPK-EST
3.8L (231") V6 SFI (VIN K)	PCV, EVAP, TWC, FR, (1)(2) EGR, (1) SPK, (3) HO2S, CEC, (1) MIL	EVAP-VC, (1) EVAP-CPCS, (1) SPK-ESC, (1) SPK-EST
3.8L (231") V6 SFI SC (VIN 1)	PCV, EVAP, TWC, FR, (1)(2) EGR, (1) SPK, (3) HO2S, CEC, (1) MIL	EVAP-VC, (1) EVAP-CPCS, (1) SPK-ESC, (1) SPK-EST
4.0L (244") V8 SFI (VIN C)	PCV, EVAP, TWC, FR, (1)(2) EGR, (1) SPK, (4) HO2S, CEC, (1) MIL	EVAP-VC, (1) EVAP-CPCS, (1) SPK-ESC, (1) SPK-EST
4.6L (279") V8 SFI (VIN Y & 9)	PCV, EVAP, TWC, FR, (1)(2) EGR, (1) SPK, (4) HO2S, CEC, (1) MIL	EVAP-VC, (1) EVAP-CPCS, (1) SPK-ESC, (1) SPK-EST
5.7L (350") V8 SFI (VIN G & P)	PCV, EVAP, TWC, FR, (1)(5) BP/EGR, (1) SPK, AP, (4) HO2S, CEC, (1) MIL	EVAP-VC, (1) EVAP-CPCS, EVAP-CPCV, (1)(5) BP/EGR-CS, (1) SPK-ESC, (1) SPK-EST, (1) AP-EAP, AP-CKV, (1) AP-ERLY
(1) - PCM-controlled. (2) - Linear EGR valve. (3) - Equipped with 2 sensors. (4) - Equipped with 4 sensors. (5) - VIN P only.		

ABBREVIATION DEFINITIONS

ABBREVIATION DEFINITIONS TABLE

Abbreviation	Definition
AP	Air Pump Injection System
AP-CKV	AP Check Valve
AP-EAP	AP Electric Air Pump
AP-ERLY	AP Electric Air Pump Relay
BP/EGR	Backpressure EGR System
BP/EGR-CS	BP/EGR Control Solenoid
CEC	Computerized Engine Controls
EGR	Exhaust Gas Recirculation System
EVAP	Fuel Evaporative System
EVAP-CPCS	EVAP Canister Purge Control Solenoid
EVAP-CPCV	EVAP Canister Purge Control Valve
EVAP-VC	EVAP Vapor Canister
FR	Fill Pipe Restrictor
HO2S	Heated Oxygen Sensor
MIL	Malfunction Indicator Light

O2S Oxygen Sensor
PCV Positive Crankcase Ventilation
SC Supercharged
SFI Sequential Fuel Injection
SPK Spark Controls
SPK-ESC SPK Electronic Spark Control (Retard)
SPK-EST SPK Electronic Spark Timing
TWC Three-Way Catalytic Converter
