

1966-79 EXHAUST EMISSION SYSTEMS

Jeep Emission Control Applications

1966-79 JEEP

| Year, Engine & Fuel System | Emission Control Systems & Devices | Remarks |
|---|--|---|
| 1966-67 All Models | PCV, AIS ¹ | ¹ - Light duty Calif. only. |
| 1968 2.2L (134") 4-Cyl. 1-Bbl. 3.7L (225") V6 2-Bbl. ² 3.8L (232") 6-Cyl. 1-Bbl. ² 5.4L (327") V8 2-Bbl. ² 5.4L (327") V8 4-Bbl. ² 5.7L (350") V8 2-Bbl. ² | PCV, AIS PCV, AIS ¹ PCV, AIS ¹ PCV, AIS ¹ PCV, AIS ¹ PCV, TAC ¹ , CCS ¹ | ¹ - Light duty only. ² - Heavy duty, PCV only. |
| 1969 2.2L (134") 4-Cyl. 1-Bbl. 3.7L (225") V6 2-Bbl. ² 3.8L (232") 6-Cyl. 1-Bbl. ² 5.4L (327") V8 2-Bbl. ² 5.4L (327") V8 4-Bbl. ² 5.7L (350") V8 2-Bbl. ² | PCV, AIS PCV, AIS ¹ PCV, AIS ¹ PCV, AIS ¹ PCV, AIS ¹ PCV, TAC ¹ , CCS ¹ | ¹ - Light duty only. ² - Heavy duty, PCV only. |
| 1970 2.2L (134") 4-Cyl. 1-Bbl. 3.7L (225") V6 2-Bbl. ³ 3.8L (232") 6-Cyl. 1-Bbl. ³ 5.4L (327") V8 2-Bbl. ³ 5.4L (327") V8 4-Bbl. ³ 5.7L (350") V8 2-Bbl. ³ | PCV, AIS ¹ , EVAP ² PCV, AIS ¹ , EVAP ² PCV, AIS ¹ , EVAP ² PCV, AIS ¹ , EVAP ² PCV, AIS ¹ , EVAP ² PCV, TAC, EVAP ² , CCS | ¹ - Light duty only. ² - Calif. only. ³ - Heavy duty, PCV only. |
| 1971 2.2L (134") 4-Cyl. 1-Bbl. 3.7L (225") V6 2-Bbl. ² 4.2L (258") 6-Cyl. 1-Bbl. ² 5.0L (304") V8 2-Bbl. ² 5.9L (360") V8 2-Bbl. ² | PCV, AIS, EVAP PCV, TAC, AIS, EVAP PCV, EVAP ¹ , TCS PCV, AIS, EVAP ¹ , TCS PCV, AIS, EVAP ¹ , TCS | ¹ - Calif. & light duty. ² - Heavy duty, PCV only. |
| 1972 3.8L (232") 6-Cyl. 1-Bbl. 4.2L (258") 6-Cyl. 1-Bbl. 5.0L (304") V8 2-Bbl. 5.9L (360") V8 2-Bbl. | PCV, EVAP, TCS PCV, EVAP, TCS PCV, TAC ⁴ , AIS ¹ , EVAP, TCS PCV, TAC ⁴ , AIS ² , EVAP ³ , TCS | ¹ - M/T models only. ² - All M/T models & heavy duty models with A/T. ³ - All models exc. heavy duty models with M/T. ⁴ - Light duty only. |
| 1973 3.8L (232") 6-Cyl. 1-Bbl. 4.2L (258") 6-Cyl. 1-Bbl. 5.0L (304") 6-Cyl. 1-Bbl. 5.9L (360") V8 2-Bbl. 5.9L (360") V8 4-Bbl. | PCV, TAC, EVAP, EGR ¹ , TCS PCV, TAC, AIS ² , EVAP, EGR ³ , TCS PCV, TAC, AIS, EVAP, EGR, TCS PCV, TAC, AIS, EVAP ⁴ , EGR, TCS, VTM ⁵ PCV, TAC, AIS, EVAP, EGR, EAC, TCS | ¹ - Commando models only. ² - Wagoneer, Truck only. ³ - Except CJ & DJ models. ⁴ - Except Federal truck 47 & 48 models. ⁵ - Truck 47 & 48 models only. |
| 1974 3.8L (232") 6-Cyl. 1-Bbl. 4.2L (258") 6-Cyl. 1-Bbl. 5.0L (304") V8 6-Cyl. 1-Bbl. 5.9L (360") V8 2-Bbl. Man. Trans. Auto. Trans. 5.9L (360") V8 2-Bbl. 6.6L (401") V8 4-Bbl. | PCV, TAC, EVAP, EGR, CTO, TCS PCV, TAC ² , AIS ¹ , EVAP ² , EGR ² , CTO ² , TCS ² PCV, TAC, AIS, EVAP, EGR, CTO, TCS ³ , VTM ⁴ PCV, TAC, AIS, EVAP, EGR, SPK, CTO, TCS ⁵ , TVS, VTM ⁶ PCV, TAC, AIS, EVAP, EGR, SPK, BPS ⁷ , CTO, TCS ⁵ , TVS, VTM ⁶ PCV, TAC, AIS, EVAP, EGR, SPK, BPS ⁴ , CTO, TCS ⁷ , TVS PCV, TAC, AIS, EVAP ⁸ , EGR, CTO, EAC ⁸ , VTM ⁸ | ¹ - Exc. Fed. M/T CJ5/6 ² - Used on all Fed. models, Only used in Calif. on M/T CJ5/6 models. ³ - Federal only. ⁴ - Calif. only. ⁵ - Fed. exc. truck 46. ⁶ - All Calif. models, Federal Heavy duty truck & 46 only. ⁷ - Exc. Federal Cherokee. ⁸ - Exc. Federal Truck 46. |
| 1975 Light Duty Emissions 3.8L (232") 6-Cyl. 1-Bbl. 4.2L (258") 6-Cyl. 1-Bbl. 5.0L (304") V8 2-Bbl. 5.9L (360") V8 2-Bbl. 5.9L (360") V8 4-Bbl. 6.6L (401") V8 4-Bbl. Heavy Duty Emissions ⁹ | PCV, TAC, EVAP, EGR ¹ , TCS ⁷ PCV, TAC, EVAP ² , EGR ^{1,3} , FR ⁴ , TCS PCV, TAC, AIS, EVAP, OC, EGR, FR, TCS ¹ PCV, TAC, AIS, EGR ^{1,5} , FR, VTM ⁶ PCV, TAC, AIS, EVAP ¹ , EGR, BPS ¹ , FR, VTM ⁶ PCV, TAC, AIS, EVAP ¹ , EGR, BPS ¹ , FR, VTM ⁶ | ¹ - Calif. only. ² - Not used on J10 or Cherokee. ³ - Used on J10 Fed. models. ⁴ - Used on Fed. Cherokee & J10 models only. ⁵ - Used on Fed. J10/20 only. ⁶ - M/T models only. ⁷ - CJ5/6 only. ⁸ - Heavy duty same as light duty. ⁹ - Heavy duty same as light duty. |

1966-79 EXHAUST EMISSION SYSTEMS

Jeep Emission Control Applications (Cont.)

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| Year, Engine & Fuel System | Emission Control Systems & Devices | Remarks |
|--|---|---|
| 1976 Light Duty Emissions 3.8L (232") 6-Cyl. 1-Bbl. 4.2L (258") 6-Cyl. 1-Bbl. 5.0L (304") V8 2-Bbl. 5.9L (360") V8 2-Bbl. 5.9L (360") V8 4-Bbl. 6.6L (401") V8 4-Bbl. Heavy Duty Emissions ³ | PCV, TAC, AIS ¹, EVAP, OC ¹, EGR, SPK ¹, BPS, EGR-CTO, FR PCV, TAC, AIS ¹, EVAP, OC ¹, EGR, SPK ², BPS ², EGR-CTO, FR ² PCV, TAC, AIS, EVAP, OC, EGR, SPK, EGR-CTO, FR, VTM ³ PCV, TAC, AIS, EGR, SPK, EGR-CTO, FR, VTM ³ PCV, TAC, AIS, EVAP ¹, EGR, SPK, EGR-CTO, FR PCV, TAC, AIS, EVAP ¹, EGR, SPK, BPS ¹ | ¹ - Calif. vehicles only. ² - CJ5/7 models only. ³ - Heavy duty same as Light duty. |
| 1977 Light Duty Emissions 3.8L (232") 6-Cyl. 1-Bbl. 4.2L (258") 6-Cyl. 1-Bbl. 5.0L (304") V8 2-Bbl. 5.9L (360") V8 2-Bbl. 5.9L (360") V8 4-Bbl. 5.9L (360") V8 4-Bbl. 6.6L (401") V8 4-Bbl. Heavy Duty Emissions ⁹ | PCV, TAC, AIS, EVAP, OC ^{1,2}, EGR, SPK ², FR, TCS ¹ PCV, TAC, AIS ², EVAP ², OC ^{1,3}, EGR, SPK, FR ², TCS ^{1,2} PCV, TAC, AIS, EVAP ¹, OC, EGR ⁴, SPK ⁶, BPS ⁵, EAC ¹, TCS ^{1,3} PCV, TAC, AIS, EGR, SPK, VTM ^{7,8} PCV, TAC, AIS, EGR, SPK, VTM ^{7,8} PCV, TAC, AIS, EVAP ⁸, OC ⁸, EGR, SPK, BPS ⁸, FR ⁸, VTM ^{7,8} PCV, TAC, AIS, EVAP ⁸, OC ⁸, EGR, SPK, BPS ⁸, FR ⁸, VTM ^{7,8} | ¹ - High Alt. models only. ² - CJ models only. ³ - Calif. CJ models only. ⁴ - Not used on Fed. M/T. ⁵ - Calif. M/T only. ⁶ - High Alt. & Calif. models. ⁷ - Fed. M/T only. ⁸ - Calif. models only. ¹ ⁹ - Heavy Duty same as Light Duty. |
| 1978 Light Duty Emissions 3.8L (232") 6-Cyl. 1-Bbl. ¹ 4.2L (258") 6-Cyl. 1-Bbl. 5.0L (304") V8 2-Bbl. 5.9L (360") V8 2-Bbl. Heavy Duty Emissions ¹ 4.2L (258") 6-Cyl. 2-Bbl. ⁶ 5.9L (360") V8 2-Bbl. 5.9L (360") V8 4-Bbl. 6.6L (401") V8 4-Bbl. | PCV, ATC, AIS, EVAP, OC ², EGR, SPK, TAC PCV, TAC, AIS, EVAP, OC ³, EGR, SPK, TCS ⁴ PCV, TAC, AIS, EVAP, OC, EGR, SPK ⁵ PCV, TAC, AIS, EVAP, OC, EGR, SPK, TCS PCV, TAC, EGR, SPK PCV, TAC, AIS, EGR, SPK, VTM ⁷ PCV, TAC, AIS, EGR, SPK, VTM ⁷ PCV, TAC, AIS, EGR, SPK, VTM ⁷ | ¹ - 232" engine not available in Calif. ² - Fed. High Alt. only. ³ - Calif. & High Alt. only. ⁴ - Calif. CJ7 A/T only. ⁵ - All High Alt. & Calif. CJ7 A/T models only. ⁶ - Federal models only. ⁷ - Used on some Fed., Cherokee, Wagoneer & Truck models. |

1966-79 EXHAUST EMISSION SYSTEMS

Jeep Emission Control Applications (Cont.)

1966-79 JEEP (Cont.)

| Year, Engine & Fuel System | Emission Control Systems & Devices | Remarks |
|---|--|--|
| 1979 Light Duty Emissions 3.8L (232") 6-Cyl. 4.2L (258") 6-Cyl. 5.0L (304") V8 5.9L (360") V8 Heavy Duty Emissions ¹ 4.2L (258") 6-Cyl. 5.9L (360") V8 6.6L (401") V8 | PCV, TAC, AIS, EVAP, OC ² , SPK ¹ , EGR-TVS PCV, TAC, AIS, EVAP, OC ² , EGR, SPK ² , EGR-TVS PCV, TAC, AIS, EVAP, OC, EGR, SPK ² , NLVR TAC, VTM ⁶ PCV, TAC, EVAP, SPK PCV, TAC, AIS, EVAP, SPK PCV, TAC, AIS, EVAP, SPK | ¹ - Calif. models with H.D. cooling and all Fed. models. ² - H.D. cooling models only. ³ - M/T Truck models only. ⁴ - All exc. M/T Fed. models with standard cooling. ⁵ - M/T Fed. models only. ⁶ - Used on some Fed., Cherokee, Wagoneer & Truck models. |

Light Duty Emissions:

- 1966-77 vehicles up to 6000 GVW.
- 1978 California vehicles to 8500 GVW or Federal vehicles up to 6000 GVW.
- 1979-89 vehicles up to 8500 GVW.

Heavy Duty Emissions:

- 1966-77 vehicles over 6000 GVW.
- 1978 California vehicles over 8500 GVW or Federal vehicles over 6000 GVW.
- 1979-89 vehicles over 8500 GVW.

- AIS** - Air Injection System
- ACV** - Air Control Valve
- A-G** - Air Guard System (Air Injection-Jeep)
- ASV** - Air Switch Valve
- BPS** - Backpressure Sensor (EGR)
- BPV** - By-Pass Valve
- CCS** - Controlled Combustion System
- CEC** - Computerized Emiss. Control
- CP/EGR-SOL** - Canister Purge EGR Solenoid
- CTO** - Coolant Temp. Override
- DBC** - Dual Bed Converter
- DC-VLV** - Deceleration Valve
- DLV** - Delay Valve
- DVTRV** - Diverter Valve
- EAC** - Electric Assist Choke
- EC** - Electric Choke
- ECU** - Electronic Control Unit
- EFE** - Early Fuel Evaporation
- EGR** - Exhaust Gas Recirculation
- EGR-CTO** - EGR Coolant Temp. Override

- EGR-FDLV** - Exhaust Gas Recirc. Foward Delay Valve
- EGR-TVS** - EGR Thermal Vac. Switch
- EST** - Electronic Spark Control
- EVAP** - Evap. Emission Control
- FDV** - Foward Delay Valve
- FR** - Fuel Return
- FS** - Foward Spark
- HDC** - Heavy Duty Cooling
- HDC-CTO** - Heavy Duty Cooling Coolant Temp. Override
- HDSP-CT** - Heavy Duty Spark Coolant Temp. Override
- HDVA-CTO** - Heavy Duty Vac. Advance Coolant Temp. Override
- MCU** - Micro Computer Unit
- MCS** - Manifold Pressure Sensor
- NLVR** - Non-Linear Vacuum Regulator
- OC** - Oxidation Catalytic
- PAIR** - Pulse-Air Injection
- PCV** - Positive Crankcase Vent.
- RS** - Reverse Spark

- RDV** - Reverse Delay Valve
- S-CTO** - Spark Coolant Temp. Override
- SDV** - Spark Delay Valve
- SL** - Solenoid
- SLV** - Solevac
- SP** - Spark
- SPK** - Spark Control
- TAC** - Thermostatic Air Cleaner
- TCS** - Trans. Controlled Spark
- TPS** - Throttle Position Sensor
- TSD** - Throttle Solenoid
- TVS** - Thermal Vacuum Switch
- TVV** - Thermal Vacuum Valve
- TWC** - Three-Way Catalyst
- VA-CTO** - Vacuum Advance Coolant Temp. Override
- VR** - Vacuum Reservoir
- VR-CKV** - Vacuum Reverse Check Valve
- VSA** - Vacuum Switch Assembly
- VSD** - Vacuum Switch Dump
- VTM** - Vacuum Throttle Modulator