

B - EMISSION APPLICATION

1998 Toyota Supra

1998 ENGINE PERFORMANCE
Toyota - Emission Applications

Avalon, Camry, Celica, Corolla, Land Cruiser, RAV4, Sienna,
Supra, Tacoma, Tercel, T100, 4Runner

EMISSION APPLICATIONS

EMISSION APPLICATIONS TABLE

Model, Engine & Fuel System	Emission Control Systems/Devices
Avalon	
3.0L V6 SFI	
Major Control Systems/Devices	PCV, EVAP, (1) TWC, (2) WU-TWC, FR, EGR, SPK, (3) AFS, (4) HO2S, CEC, MIL
Components/Other Related Devices	(5) EVAP-VSV, EVAP-VC, EVAP-VPS, (5) EVAP-VPSVSV, EGR-T, EGR-VCV, EGR-PS, (5) EGR-VSV, SPK-CC
Camry	
2.2L 4-Cyl. SFI	
Major Control Systems/Devices	PCV, EVAP, (6) TWC, FR, EGR, SPK, (7) AFS, (8) HO2S, CEC, MIL
Components/Other Related Devices	(5) EVAP-VSV, EVAP-VC, (5) EVAP-VPS, (5) EVAP-VPSVSV, ORVR-COV, ORVR-OCKV, EGR-VM, (5) EGR-VSV, SPK-CC
3.0L V6 SFI	
Major Control Systems/Devices	PCV, EVAP, (1) TWC, (9) WU-TWC, FR, EGR, SPK, (10) AFS, (11) HO2S, CEC, MIL
Components/Other Related Devices	(5) EVAP-VSV, EVAP-VC, EVAP-VPS, (5) EVAP-VPSVSV, EGR-T, EGR-VCV, EGR-PS, (5) EGR-VSV, SPK-CC
Celica	
2.2L 4-Cyl. SFI	
Major Control Systems/Devices	PCV, EVAP, (12) TWC, FR, EGR, SPK, (13) O2S, CEC, MIL
Components/Other Related Devices	(14) EVAP-TVV, (5) (15) EVAP-VSV, EVAP-VC, (14) EVAP-CKV, (15) EVAP-VPS, (5) (15) EVAP-VPSVSV, EGR-VM, (5) EGR-VSV, SPK-CC
Corolla	
1.8L 4-Cyl. SFI	
Major Control Systems/Devices	PCV, EVAP, TWC, FR, SPK, (16) HO2S, CEC, MIL
Components/Other Related Devices	(5) EVAP-VSV, EVAP-VC, (5) EVAP-VPS, (5) EVAP-VPSVSV, ORVR-COV, ORVR-OCKV, SPK-CC
Land Cruiser	
4.7L V8 SFI	
Major Control Systems/Devices	PCV, EVAP, (17) TWC, FR, SPK, (18) HO2S, CEC, MIL
Components/Other Related Devices	(5) EVAP-VSV, EVAP-VC, (5) EVAP-VPS, (5) EVAP-VPSVSV, SPK-CC
RAV4	
2.0L 4-Cyl. SFI	
Major Control Systems/Devices	PCV, EVAP, (6) TWC, FR, EGR, SPK, (7) AFS, (8) HO2S, CEC, MIL
Components/Other Related Devices	(5) EVAP-VSV, EVAP-VC,

(5) EVAP-VPS, (5) EVAP-VPSVSV,
EGR-VM, (5) EGR-VSV, SPK-CC

Sienna

3.0L V6 SFI

Major Control Systems/Devices PCV, EVAP, TWC, FR, SPK,
(19) HO2S, CEC, MIL
Components/Other Related Devices (5) EVAP-VSV, EVAP-VC,
EVAP-VPS, (5) EVAP-VPSVSV, SPK-CC

Supra

3.0L 6-Cyl. Non-Turbo (2JZ-GE) SFI

Major Control Systems/Devices PCV, EVAP, (17) TWC, FR, SPK,
(18) HO2S, CEC, MIL
Components/Other Related Devices (5) EVAP-VSV, EVAP-VC,
EVAP-VPS, (5) EVAP-VPSVSV, SPK-CC

3.0L 6-Cyl. Turbo (2JZ-GTE) SFI

Major Control Systems/Devices PCV, EVAP, (17) TWC, FR, EGR,
SPK, (20) HO2S, CEC, MIL
Components/Other Related Devices (5) EVAP-VSV, EVAP-VC,
EVAP-CKV, EGR-CLR, EGR-T,
EGR-VM, (5) EGR-VSV, SPK-CC

Tacoma

2.4L 4-Cyl. (2RZ-FE) SFI &

2.7L 4-Cyl. (3RZ-FE) SFI

Major Control Systems/Devices PCV, EVAP, TWC, FR, EGR, SPK,
(16) HO2S, CEC, MIL
Components/Other Related Devices (5) EVAP-VSV, EVAP-VC,
EVAP-VPS, (5) EVAP-VPSVSV, EGR-T, EGR-VM,
(5) EGR-VSV, (21) EGR-CKV, SPK-CC

3.4L V6 SFI

Major Control Systems/Devices PCV, EVAP, TWC, FR, (23) EGR,
SPK, (16) HO2S, CEC, MIL
Components/Other Related Devices (5) EVAP-VSV, EVAP-VC,
EVAP-VPS, (5) EVAP-VPSVSV, (23) EGR-T,
(23) EGR-VM, (5) (23) EGR-VSV, SPK-CC

Tercel

1.5L 4-Cyl. SFI

Major Control Systems/Devices PCV, EVAP, TWC, FR, SPK,
(24) O2S, CEC, MIL
Components/Other Related Devices (5) EVAP-VSV, EVAP-VC,
EVAP-VPS, (5) EVAP-VPSVSV, SPK-CC

T100

2.7L 4-Cyl. SFI

Major Control Systems/Devices PCV, EVAP, TWC, FR, EGR, SPK,
(16) HO2S, CEC, MIL
Components/Other Related Devices (5) EVAP-VSV, EVAP-VC,
EVAP-VPS, (5) EVAP-VPSVSV, EGR-T, EGR-VM,
(5) EGR-VSV, (21) EGR-CKV, SPK-CC

3.4L V6 SFI

Major Control Systems/Devices PCV, EVAP, TWC, FR, (22) EGR,
SPK, (16) HO2S, CEC, MIL
Components/Other Related Devices (5) EVAP-VSV, EVAP-VC,
EVAP-VPS, (5) EVAP-VPSVSV, (22) EGR-T,
(22) EGR-VM, (5) (22) EGR-VSV, SPK-CC

4Runner

2.7L 4-Cyl. SFI

Major Control Systems/Devices PCV, EVAP, TWC, FR, EGR, SPK,
(16) HO2S, CEC, MIL
Components/Other Related Devices (5) EVAP-VSV, EVAP-VC,
EVAP-VPS, (5) EVAP-VPSVSV, EGR-T,
EGR-VM, (5) EGR-VSV, (21) EGR-CKV, SPK-CC

3.4L V6 SFI

Major Control Systems/Devices PCV, EVAP, TWC, FR, SPK,
(16) HO2S, CEC, MIL

Components/Other Related Devices (5) EVAP-VSV, EVAP-VC,
EVAP-VPS, (5) EVAP-VPSVSV, SPK-CC

- (1) - One on exhaust pipe on all models.
- (2) - Calif. emission vehicles only. One on each bank below exhaust manifold.
- (3) - Calif. emission vehicles only. One heated sensor on each exhaust manifold.
- (4) - On Calif. emission vehicles, one on exhaust pipe, behind catalytic converter. On except Calif. emission vehicles, one on each exhaust manifold and one on exhaust pipe, behind catalytic converter.
- (5) - Controlled by ECM.
- (6) - On Calif. emission vehicles, one on exhaust manifold and one on exhaust pipe. On except Calif. emission vehicles, one on exhaust pipe.
- (7) - Calif. emission vehicles only. Heated sensor on exhaust manifold above catalytic converter.
- (8) - On Calif. emission vehicles, one on exhaust pipe behind catalytic converter. On except Calif. emission vehicles, one near exhaust manifold and one on exhaust pipe behind catalytic converter.
- (9) - Calif. emission vehicles with A/T only. One on each bank below exhaust manifold.
- (10) - Calif. emission vehicles with A/T only. Heated sensor on each exhaust manifold.
- (11) - On Calif. emission vehicles with A/T, one on exhaust pipe, \ behind catalytic converter. On all models except Calif. emission vehicles with A/T, one on each exhaust manifold and one on exhaust pipe, behind catalytic converter.
- (12) - One on exhaust manifold and one on exhaust pipe.
- (13) - One on exhaust manifold before front catalytic converter and one on bottom of front catalytic converter.
- (14) - Except Calif. emission vehicles only.
- (15) - Calif. emission vehicles only.
- (16) - One on exhaust pipe before catalytic converter and one on exhaust pipe, behind catalytic converter.
- (17) - Two required.
- (18) - Four required. One on each exhaust manifold and one on each exhaust pipe, behind catalytic converter.
- (19) - One on each exhaust manifold and one on exhaust pipe, behind catalytic converter.
- (20) - One on exhaust gas control valve assembly on rear of turbocharger and one on exhaust pipe in front of rear catalytic converter.
- (21) - Applies to A/T models only.
- (22) - Applies to 2WD 1/2 ton models.
- (23) - Applies to all 2WD models and 4WD regular cab models.
- (24) - Non-heated sensor is used on exhaust manifold. Heated sensor is used on exhaust pipe behind catalytic converter.

APPLICATION ABBREIVEATIONS

APPLICATION ABBREIVEATIONS TABLE

Application	Abbreiveation
AFS	Air/Fuel Ratio Sensor
CEC	Computerized Engine Controls
EGR	Exhaust Gas Recirculation
EGR-CKV	EGR Check Valve

EGR-CLR	.....	EGR Cooler
EGR-PS	.....	EGR Position Sensor
EGR-T	.....	EGR Temperature Sensor
EGR-VCV	.....	EGR Vacuum Control Valve
EGR-VM	.....	EGR Vacuum Modulator
EGR-VSV	.....	EGR Vacuum Switching Valve
EVAP	.....	Fuel Evaporative System
EVAP-CKV	.....	EVAP Check Valve
EVAP-TVV	.....	EVAP Thermal Vacuum Valve
EVAP-VC	.....	EVAP Vapor Canister
EVAP-VPS	.....	EVAP Vapor Pressure Sensor
EVAP-VPSVSV	.....	EVAP Vapor Pressure Sensor Vacuum Switching Valve
EVAP-VSV	.....	EVAP Vacuum Switching Valve
FR	.....	Fill Pipe Restrictor
HO2S	.....	Heated Oxygen Sensor
MIL	.....	Malfunction Indicator Light
O2S	.....	Oxygen Sensor
ORVR-COV	.....	Onboard Refueling Vapor Recovery Cut-Off Valve
ORVR-OCKV	....	Onboard Refueling Vapor Recovery Overfill Check Valve
PCV	.....	Positive Crankcase Ventilation
SFI	.....	Sequential Multiport Fuel Injection
SPK	.....	Spark Controls
SPK-CC	.....	SPK Computer Controlled
TWC	.....	Three-Way Catalytic Converter
WU-TWC	.....	Warm Up Three-Way Catalytic Converter
