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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-315 Relating to Certification of New Motor Vehicles

TOYOTA MOTOR CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1997 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

<u>Fuel Type</u>: Gasoline

Engine Family: VTY3.42JG2GK Displacement: 3.4 Liters (206.1 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Sequential Multiport Fuel Injection Heated Oxygen Sensors (two) Three Way Catalytic Converter

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) TLEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle <u>Weight (lbs.)</u>	<u>Miles</u>	NMOG	<u>CO</u>	<u>NOx</u>	НСНО	<u>CO (20°F)</u>
3751-5750	50,000 100,000	0.160 0.200	4.4 5.5	0.7 0.9	0.018	12.5 n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for NMOG reflect application of a 0.98 RAF for 1997 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle _Weight (lbs.)	Miles	NMOG	_ <u>C0</u> _	<u>NOx</u>	НСНО	<u>CO (20°F)</u>
3751-5750	50,000	0.146	1.8	0.2	0.001	4.9
	100,000	0.161	2.1	0.2	0.001	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

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Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this _____ day of August 1996.

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R. B. Summerfield (Assistant Division Chief Mobile Source Division

LAPI, TIC-LA

EO# A-14-315

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1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES Page I m 50S AB965 ULEV 7817 Manufacturer: TOYOTA Exh Eng Fam: VTY3.42JG2GK All Eng Codes in Eng Fam: CA x Exh Std: CA Tier-1____ TLEV x Exh Std; CA Tier-1 ILEV x Evap std: 50K Useful Life with R/L x In-Use Exh Std; Full In Use x Vch Class(es): PC LDT1 LDT2 x MDV1 MDV2 MDV3 MDV4 MDV5 Single Cert Std for Multi-Class Eng Fau: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV Dedicated x Flex-Fuel Dual-Fuel Bi-Fuel Gasoline x Diesel Mes Other(specify) (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4) Dedicated x Flex-Fuel CNG LNG LPG): Indo Pb2 x CNG Diesel: 13CCR 2282 40 CFR 86.113-90_ Service Accum: Std AMA x Mod AMA Mf ADP Other(speciny) niv R/L Test Proc: SHED x 40 CFR 86.113-94 NMOG Test Procedure: N/A Hybrid: Type A B C Engine Configuration: V-6 Valves per Cylinder: 4 Engine: Front x Mid Std. x Equiv R/L Test Proc. APU Cycle(e.g., Otto, Diesci, Turbine): Displacement: 3.4 / Liters 206.1 / Rated HP: 190 @ 4.80 Pr Source Cubic Inches 4,800 Engine: Front x Mid Kear Drive: FWD Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI. H02S(2), TWC RWD_x*1_4WD-FT____ RPM 4WD-PT x*2 (use abbreviations per SAE J1930 SEP91) Engine Code/ Vehicle Models (if coded see attachment) Trans. (M5, A4 ETW DPA Ignition (ECM/PCM) Part No. EGR System Part No. Catalytic Converter Part No. (also or or RLHP Test Wt list etc.) ČÁ/ 49S/ 50ST 1 MS 4250 15.2, 16.6 89661-34290 N/A S95*2 S96*1 2 16.6, 3 VCKIIL-CRSDKA Before R/C 97-TR-6: 89661-0W040*1 89661-0W030*2 After R/C 97-TR-6: 89661-0W041*1 89661-0W031*2 L43875 12.3, 13.6 13.6 CIIL-CRSSKA CIIL-THSDKA CIIL-CRSDKA 15.2 16.6 15.2 16.6 15.2 4250 VCK21L-CRSSKA 4500 VCK21L-TRSDKA 4250 4 VCKIIL-CRSDKA 3875 13.6, VCK11L-CRSSKA VCK11L-THSDKA VCK21L-CRSDKA 3875 15.0 4500 16.6, 18.0 16.6, 18.0 VCK21L-CRSSKA 4500 VCK21L-TRSDKA 42.50 16.5

Note *1 : Applied to truck line TOYOTA T100 2WD. *2 : Applied to truck line TOYOTA T100 4WD.

Page : 17-11-VTYJ.42JG2GK-1 Issued : 06/14/96 97-TR-6 : 09/27/96

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E.O.# A -14-315

1997-MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: TOYOTA

Exh Eng Fam: VTY3.42JG2GK

Evap Fam: VTY1115AYME0

Engine Code (also list CA/ 49S/ 50ST)	Vehicle Models (if coded see attachment)	Trans. (M5, A4 etc.)	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
5	VCK11L-CRMDKA	M5	3875	12.3,	89661-34300	N/A	S96
	VCK11L-CRMSKA VCK11L-THMDKA		3750	13.6 13.6 13.6			
6	VCK11L-CRMDKA		3875	13.6,	-		
	VCK11L-CRMSKA VCK11L-THMDKA			15.0 15.0 15.0			

Comments : Please refer to manufactruer's HP list for correct dyno test HP setting based on model and equipment.

VEHICLE MODELS:

TOYOTA T100 2WD VCK11L-CRMDKA -CRMSKA -CRSDKA -CRSSKA -THMDKA -THSDKA

TOYOTA T100 4WD VCK21L-CRMDKA -CRMSKA -CRSDKA -CRSSKA -TRMDKA -TRSDKA

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1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES Page 3 of 4

Exh Std: Evap std: Veh Class Single Ce Fuel Type Emiss Tes Service Ad NMOG Te Hybrid: T Engine Co Valves per Engine: F	CA Tier-1 TLE 50K Useful Life (es): PC LDT1 rt Std for Multi-Class Eng (s): Dedicated x CNG LN tt Fuel(s): Indo Pt Diesel: 13 ccum: Std AMA x est Procedure: N/A Sype A B C onfiguration: V-6 Cylinder: 4	V x with R/L LDT: Fam: Flex-Fue G CCR 228 Mod AM Std_x Displa	LEV 2 x M 2 x M N/A 2 LPG CNG 2 1A Eq APU Cy accement: F Driv SFI, HO	ULH In-U IDV1(Dual-Fue Mr LP(40 C 40 C Mfr AD uiv rele(e.g., 3.4 / Rated HP re: FW 2S(2), TV	ZEV ZEV Ise Exh Std: MDV2 N Specify: N/A, LD7 Bi-Fue 85 Other(19) 96 M85 97 Other(s) 97 Other(s) 97 Other(s) 97 Other(s) 97 Other(s) 98 Lite 190 183	Full In Use x 4DV3 M 1, MDV1, M el Gasol specify) Other(spec: 40 C specify) c: SHED x ine): 206.1 / @ 4,800 @ 4,800 2 4WD-FT_	IDV4MDV5_ DV2, MDV3, MD inexDiesel ify) FR 86.113-94 Pt Source Cubic Inch
Engine Code/ (also list CA/ 49S/ 50ST)	Vehicle Models (if coded see attachmt)	Trans. (M5, A4 etc.)	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic converter part No.
1	VZN170L-CRMDKAB VZN170L-CRMGKAB	M5	3750	14.5, 14.6*4	89661-04310	N/A	S99
2	VZN170L-CRMDKAB VZN170L-CRMGKAB		3875 3750	14.9 15.9, 16.0*4 16.3			
3	VZN170L-CRPDKAB VZN170L-CRPGKAB	L4	3750	14.5. 14.6*4	Before R/C 97-TR-6:		
4	VZN170L-CRPDKAB VZN170L-CRPGKAB		3875	14.9 15.9, 16.0*4 16.3	89661-04320 After R/C 97-TR-6: 89661-04321		
7	VZN180L-GKPGKA VZN185L-GKPGKA	L4	3875 4250	12.0, 12.1 12.2, 13.3	Before R/C 97-TR-6: 89661-3D320*3		S91
8	VZN180L-GKPGKA VZN180L-GKPZKA VZN185L-GKPGKA VZN185L-GKPZKA		3875 4000 4250	13.2, 13.3 13.3 13.5 13.5, 14.7 14.7	89661-3D330*2 After R/C 97-TR-6: 89661-3D321*3 89661-3D331*2		
9	VZN185L-GKMGKA	M5	4000	12.2, 13.3	89661-3D310		
10 te *1 :	VZN185L-GKMGKA	OMA AV	4250	13.5, 14.7			
20 J	Applied to TOYOTA TAC Applied to 4-RUNNER 2V Please refer to manufacture 06/14/96 97-TR-2	/D. er's HP lis : 08/01,			ied to 4-RUNNER d by Running Cha test HP setting ba 6 : 09/27/96	4WD. ange 97-TR-12 ased on model 97-TR-12 : (

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1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: TOYOTA Exh Eng Fam: VTY3.42JG2GK Evap Fam: VTY1095AYME0

VEHICLE MODELS:

TOYOTA TACOMA 4WD VZN170L-CRMDKAB -CRMGKAB -CRPDKAB -CRPGKAB	<u>4-RUNNER 2WD</u> VZN180L-GKPGKA VZN180L-GKPZKA	<u>4-RUNNER 4WD</u> VZN185L-GKMGKA VZN185L-GKPGKA VZN185L-GKPZKA
-CKFUKAB		