State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-103 Relating to Certification of New Motor Vehicles

TOYOTA MOTORS 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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1987 model-year Toyota Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family	Displacer Cubic Inches		Exhaust Emission Control Syste (Special Features)		
HTY2.4T5F8B7	144.4	(2.4)	Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst (Electronic Fuel Injection)		

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

The following are the emission standards for this engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile
0-3999	0.39	9.0	1.0
4000-5999	0.50	9.0	

The following are the certification emission values for this engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3999	0.20	2.1	0.2
4000-5999	0.27	3.0	0.4

BE IT FURTHER RESOLVED: That the listed models in the 0-3999 equivalent inertia weight class were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

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" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 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 Tune-Up Label Specifications" (Title 13, California Administrative Code. Section 1965) for the aforementioned model year.

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 regulations (Title 13, California Administrative Code, Section 2035 et seq.) and, for the listed vehicles in the 0-3999 equivalent inertia weight class, with Health and Safety Code Section 43204.

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 $\frac{27}{1}$ day of August, 1986.

K. D. Drachand, Chief Mobile Source Division

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Issued: 05/27/86

	1987 AIR RE	SOURCES	Board Supplemental	L DATA SH	eet e	.o. * <u>A-14-)</u> E	
_					P	age <u>l</u>	
	Manufacturer Toyota Motor Corp	oration	Engine Family	HTY2.	4T5FBB7		
	Evaporative Family EV-E		Engine Type	4 cyl	. in-line	<u> </u>	
			Liters (CID)	2.4	(144.4)		
•	ABBREVIATIONS			_			
				•			
	Ignition System	Exhaust	Emissions Control	System	<u>Special</u>	<u>Features</u>	
	CA-Centrifugal Advance		Injection-Pump		CCV-Comb	oustion	
	EEC-Electronic Engine Control		Injection-Valve			mber Valve	
	EI-Electronic Ignition	CL-Close		_		ral Fuel	
	ESAC-Electronic Spark Advance		aust Gas Recircula	tion		ection	
	Control VA-Vacuum Advance	_	ne Modification ation Catalyst Sys	. t om	DID-Dies		
	VR-Vacuum Retard		ke Puff limiter or		Dire	ection-	
	AV ACCAME VELBIA		ottle Delay		DIP-Dies		
			p Oxidizer Continu	al		ection-	
			Oxidizer Periodi		•	chamber	
			mal Reactor		EFI-Elec		
		TWC-Thr	ee Way Catalyst Sy	stem	Fue!	Injection	
	Fuel System				IC-Inter		
,	CFI, CL, DID, DIP, EFI, MFI					or aftercooler	
	nV-nVenturi Carburetor				MFI-Mech		
					TC-Turbo	Injection	
	VEHICLE MODELS :				IC-IUID	Cital der	
		•					
	1.Truck 2WD 2. 1-ton Truc		. Cab & Chassis 2W		uck 4WD	5. 4-Runner	
	RN55L-MSCEA RN55L-MRHEA	RI	N55L-KREA3W		-MSEA	RN61LG-MDEA	
	-PSCEA -PRHEA		-krtea3w -srea3w		-PDEA	-MSEA	
			-SRTEA3W		-MSCEA -PDCEA	RN61LV-MDEA -PDEA	
		RI	N75L-KRTEA3W		-PSCEA	-MSEA	
		•	-SDTEA3W		2 DOUR	-PSEA	
						4 4 3 3 3	
	Engine: Front <u>l thru 5</u> Mid	•	Rear				
	Drive: FWD RWD 1,	2,3 4WI	Full time	4WD Pa	rt time	4,5	
						-	

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger (Cars Light-De	uty Tru	cks <u>x</u>	Medium-Duty	Vehicles	Gas x Di	
Manufactur	er <u>Toyota Mo</u>	tor Cor	poration	n Engin	e family	HTY2.4T	5FBB7
Liter (CID	2.4	(144.4)		Eng.	Type 4 cyl	. in-line	
Emission Co	ontrol Sys. (Spec	cial Fe	atures)		CL + EGR +	TWC (EFI)	·
	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00)	Туре	Test	Ign. System EEC.EI.ESAC Part No. [Computer] [Knock *1 sensor]	CL, EFI Part No. [Computer] [Air flow	}	Catalyst Part No.
1 thru 4	RN55L-MSCEA -MRHEA	M5	3,000 3,125	89615-35010	89661-35060 22250-35020 23250-45011		18450-43030
5 thru 8	RN55L-KREA3W -KRTEA3W RN75L-KRTEA3W	M4	4,000	89615-35010	89661-35040 22250-35020 23250-45011		
9 thru 12	RN55L-PSCEA -SRHEA	A4	3,000 3,125 3,250	89615-35010	89661-35060 22250-35020 23250-45011	256 20 -35100	
13 thru 16	RN55L-SREA3W -SRTEA3W RN75L-SDTEA3W		4,000	89615-35010	89661-35040 22250-35020 23250-45011	•	
17, 18	RN61L-MSEA RN66L-MSCEA	M5	3,500 3,625	89615-35010	89661-35070 22250-35020 23250-45011		

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Issued: 05/27/86 Rev. 1: 06/09/86

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Engine	Vehicle Models (If Coded see	Trans.	Equiv. Test	Ign. System BEC, BI, ESAC	Fuel System	EGR Valve	Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.03.00)	Туре	1	Part No. [Computer] [Knock *1 sensor]	Part No. [Computer] [Air flow meter] [Injector]	Part No.	Part No.
19 thru 22	RN61LG-MDEA -MSEA RN61LV-MDEA -MSEA	M 5	3,750 3,875	89615-35010	89661-35070 22250-35020 23250-45011	25620-35130	18450-43030
23 thru 26	RN61LV-PDBA -PSBA RN66L-PDBA -PDCBA -PSCBA	A4	3,625 3,750 3,875				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Note *1 Maker: 89615-35010: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

89615-35020 : NIPPONDENSO CO., LTD.

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Issued : 05/27/86