## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-14-102 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	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)		
HTY2.2T5FBD8	136.5	(2.2)	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	1.0

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	0.30	2.6	0.2
4000-5999	0.20	2.3	0.3

BE IT FURTHER RESOLVED: That the listed models 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.).

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, 1986.

K. D. Drachand, Chief Mobile Source Division

17.10.00 Supplemental data sheets B.O. # A-14-102 1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page \_\_\_\_1\_\_\_ Engine Family HTY2.2T5FBD8 Manufacturer Toyota Motor Corporation Engine Type 4 cyl. in-line Evaporative Family \_\_\_\_\_EV-E О Liters (CID) <u>2.2 (136.5)</u> **ABBREVIATIONS** Ignition System Exhaust Emissions Control System Special Features ( CCV-Combustion AIP-Air Injection-Pump CA-Centrifugal Advance EEC-Electronic Engine Control AIV-Air Injection-Valve Chamber Valve ( EI-Electronic Ignition CL-Closed Loop CFI-Central Fuel ESAC-Electronic Spark Advance EGR-Exhaust Gas Recirculation Injection EM-Engine Modification DID-Diesel Control VA-Vacuum Advance OC-Oxidation Catalyst System Injection-()VR-Vacuum Retard SPL-Smoke Puff limiter or Direct Throttle Delay DIP-Diesel TOC-Trap Oxidizer Continual Injection-TOP-Trap Oxidizer Periodical Prechamber TR-Thermal Reactor EFI-Electronic TWC-Three Way Catalyst System Fuel Injection Fuel System IC-Intercooler CFI. CL. DID. DIP. EFI. MFI or aftercooler nV-nVenturi Carburetor MFI-Mechanical Fuel Injection TC-Turbocharger VEHICLE MODELS : Van 4WD Cargo Van 4WD YR32LV-MRBEA YR31LG-MQEA -POEA -PRBEA Engine: Front x Mid. Rear \_ Drive: FWD RWD \_\_\_\_ 4VD Pull time \_\_\_\_ 4WD Part time \_\_x

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## 1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger	Cars Light-D	aty True	cks <u>x</u>	Medium-Duty	Vehicles	Gas <u>x</u> Die	esel
Manufactur	er <u>Toyota Mo</u>	tor Cor	poration	n Engine	e family	HTY2.2T	FBD8
Liter (CID	2.2	(136.5)	<del></del>	Eng. !	Type 4 cyl	. in-line	
Emission O	ontrol Sys. (Spe	cial Fe	atures)		CL + EGR +	TWC (EFI)	· · · · · · · · · · · · · · · · · · ·
Engine	Vehicle Models (If Coded see	1	, -	lgn. System		EGR Valve	Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.03.00)			Part No. [Computer]	Part No.	Part No.	Part No.
1, 2	YR31LG-MQEA YR32LV-MRBEA	M5	3,750 3,875	89661-28060		25620-73070	18450-43030
3, 4	YR31LG-PQEA YR32LV-PRBEA	A4	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.

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