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#### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-14-31 Relating to Certification of New Motor Vehicles

TOYOTA MOTOR COMPANY, LTD.

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 Toyota Motor Company, Ltd. exhaust emission control systems are certified as described below for 1980 model-year gasoline-powered light duty trucks.

Engine Family	Displacement Cubic Inches	Exhaust Emission Control Systems (Special Features)		
2F(C) 258		Air Injection Exhaust Gas Recirculation Oxidation Catalyst		

Vehicle Models, Transmissions, Engine Codes and Evaporative Emission Control Families as listed on attachments.

The following are the certification emission values to be listed on the window decal required by California Assembly-Line Test Procedures for 1979 model-year vehicles:

Engine Family	Inertia Weight Class	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile	
2F(C)	4000- 6000	0.20	3.3	1.5	

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 except Motorcycles".

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 1980 Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That Toyota Motor Company, Ltd. has provided to the Executive Officer all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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, 1979.

K. D. Drachand, Acting Chief Mobile Source Control Division

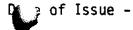
# 1980 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufac	cturer <u>Toyota</u>	Executive Order No. A-14-31	Page 1
Engine	Family 2F(C)	Engine (CID) 258	<del></del>
ABBREV!	IATIONS		
CA-Cent EEC-E1e EI-E1ec ESAC-ET VA-Vacu VR-Vacu Fuel Sy EFI, Mi nV-nVer	on System trifugal Advance ectronic Engine Control ectronic Ignition lectronic Spark Advance ontrol uum Advance uum Retard ystem FI nturi Carburetor iable Venturi	Exhaust Emissions Control System AI-Air Injection CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst PAI-Pulse Air Injection TR-Thermal Reactor TWC-Three Way Catalyst	Special Features CCAV-Combustion Chamber Air Valve EFI-Electronic Fuel Injection MFI-Mechanical Fuel Injection TC-Turbo Charged
<b>6</b> : - 3	Engine Code	Model Model	
	CMS-4 CMD-4	Land Cruiser Hardtop	
	CMS-5 CMD-5	Land Cruiser Station Wagon	

#### 1980 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passe	enger Cars 🛛 Light	-Duty T	rucks	☐ Medium-Duty	y Vehicles □	Gas 🗆 D	iesel
Manuf	facturer Toyota	Motor C	o			Page 2	<del></del>
Engin	ne Family 2F(C)			CID-Type_25	8 <b>- 16</b>	Engine Code 1	···-
ECS (	Special Features) A	[, EGR,	OC	+	10% (A/C)	YesN	lo_X
Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Test Weight Class (Inertia)	Ign. System CA, VA, EI Distributor Part No.	Fuel System 2V Carburetor Part No.	EGR Valve	Label Ident.
1	Land Cruiser Hardtop 4WD	4M	4000 (4000)	Nippondenso 19100-61101	Aisan Kogyo 21100-61065	25620 -61070	See Page 3
	Land Cruiser Station Wagon 4WD		4500 (4500)	·		31070	
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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, equipment and inertia weight class.



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## VEHICLE EMISSION CONTROL INFORMATION

ENGINE FAMILY

2F(C)

257.9 CID

EVAP. FAMILY

EV-F

AI+EGR+CCo

EXHAUST EMISSION CONTROL SYSTEM

HII / BOK/ CCO

MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULL OPEN, AIR CLEANER INSTALLED AND AIR CONDITIONER OFF.

## ENGINE TUNE UP SPECIFICATIONS

IDLE SPEED (RPM)	200 (11)		
	800 (N)		
IGNITION TIMING (°BTDC)	7° @ MAX. 900 RPM WITH HOSE FAR-		
	THEST FROM THE DISTRIBUTOR HOUSING		
	DISCONNECTED AND ITS END SEALED.		
IDLE MIXTURE SETTING	LEAN DROP IDLE		
(SEE REPAIR MANUAL FOR THE PARTICULARS)	SET TO THE 850 RPM(N) AT BEST IDLE. TURN IN IDLE MIXTURE ADJUSTING SCREW UNTIL 800 RPM(N).		
FAST IDLE SPEED (RPM)	1800 WITH THE VACUUM HOSES (a) , (b) AND (c) (REF. VACUUM HOSE INFO.) DISCONNECTED AND THE PIPE ENDS SEALED.		
VALVE CLEARANCE (IN.)	INTAKE 0.008 (0.20 mm)		
	EXHAUST 0.014 (0.35 mm)		



TOYOTA MOTOR CO., LTD.

**CATALYST** 

THIS VEHICLE CONFORMS TO U.S. EPA AND STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1980 MODEL YEAR NEW MOTOR VEHICLES AND HAS DEMONSTRATED COMPLIANCE AT ALTITUDE BELOW 4,000 FEET.