

E. BK

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-33  
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.

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
20R(TC)	134	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 1980 model-year vehicles:

<u>Engine Family</u>	<u>Inertia Weight Class</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
20R(TC)	0-3999	0.18	6.5	1.2

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.

TOYOTA MOTOR COMPANY, LTD.

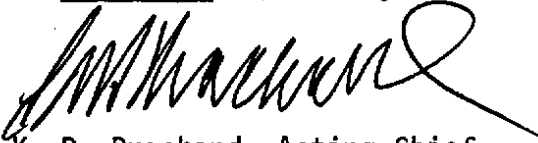
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BE IT FURTHER RESOLVED: That Toyota Motor Company, Ltd. has provided to the Executive Officer all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative 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 9<sup>th</sup> day of August, 1979.



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

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Engine Family 20R (TC) Engine (CID) 134

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance  
 EEC-Electronic Engine Control  
 EI-Electronic Ignition  
 ESAC-Electronic Spark Advance Control  
 VA-Vacuum Advance  
 VR-Vacuum Retard

Fuel System

EFI, MFI  
 nV-nVenturi Carburetor  
 VV-Variable 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

Engine Code

1,4,7,8

2,5

3,6

Model

Pickup Short bed  
 Pickup Long bed  
 Pickup 3/4 ton

Pickup 4WD

Cab & chassis

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Passenger Cars     Light-Duty Trucks     Medium-Duty Vehicles     Gas     Diesel

Manufacturer Toyota Motor Co.Page 2Engine Family 20R(TC)CID-Type 134-I4Engine Code 1-8ECS (Special Features) AI, EGR, OC

+ 10% (A/C)


Yes        No 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 Part No.	Label Ident.
1, 4	Pickup Short bed	4M	2750	Nippondenso	Aisan Kogyo		See Page 4
8, 7		5M					
8, 7		3A					
1, 4	Pickup Long bed	4M 5M	2875 (2750)	19100-38250	21100-38371	25620 -38191	
8, 7		3A					
1, 4	Pickup 3/4 ton	4M					
2, 5	Pickup 4WD Short bed  Pickup 4WD Long bed		3250 (3000)			25620 -38211	
3, 6	Cab & Chassis		3500 (3500)		21100-38491	25620 - 38191	See Page 3

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	20R(TC)	133.6 CID																																
EVAP. FAMILY	EV-RC																																	
EXHAUST EMISSION CONTROL SYSTEM		AI+EGR+CCO																																
<p>MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULL OPEN, AIR CLEANER INSTALLED AND AIR CONDITIONER OFF.</p> <p>ENGINE TUNE UP SPECIFICATIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">TRANSMISSION</th> <th style="width: 30%;">MANUAL</th> <th style="width: 30%;">AUTOMATIC</th> </tr> </thead> <tbody> <tr> <td>IDLE SPEED (RPM)</td> <td>800 (N)</td> <td>850 (N)</td> </tr> <tr> <td>IGNITION TIMING (° BTDC)</td> <td colspan="2">8° @ MAX. 550 RPM</td> </tr> <tr> <td rowspan="4">                     IDLE MIXTURE SETTING                      (SEE REPAIR MANUAL                      FOR THE PARTICULARS)                 </td> <td colspan="2" style="text-align: center;">LEAN DROP IDLE</td> </tr> <tr> <td colspan="2" style="text-align: center;">SET TO THE FOLLOWING VALUE AT BEST IDLE</td> </tr> <tr> <td style="text-align: center;">870 (N)</td> <td style="text-align: center;">920 (N)</td> </tr> <tr> <td colspan="2" style="text-align: center;">TURN IN IDLE MIXTURE ADJUSTING SCREW UNTIL</td> </tr> <tr> <td></td> <td style="text-align: center;">800 (N)</td> <td style="text-align: center;">850 (N)</td> </tr> <tr> <td>FAST IDLE SPEED (RPM)</td> <td colspan="2">2400 WITH EGR AND VACUUM ADVANCE OFF</td> </tr> <tr> <td>THROTTLE POSITIONER SETTING SPEED (RPM)</td> <td colspan="2">1050</td> </tr> <tr> <td rowspan="2">VALVE CLEARANCE</td> <td>INTAKE</td> <td>0.008 (0.20 mm)</td> </tr> <tr> <td>EXHAUST</td> <td>0.012 (0.30 mm)</td> </tr> </tbody> </table>			TRANSMISSION	MANUAL	AUTOMATIC	IDLE SPEED (RPM)	800 (N)	850 (N)	IGNITION TIMING (° BTDC)	8° @ MAX. 550 RPM		IDLE MIXTURE SETTING (SEE REPAIR MANUAL FOR THE PARTICULARS)	LEAN DROP IDLE		SET TO THE FOLLOWING VALUE AT BEST IDLE		870 (N)	920 (N)	TURN IN IDLE MIXTURE ADJUSTING SCREW UNTIL			800 (N)	850 (N)	FAST IDLE SPEED (RPM)	2400 WITH EGR AND VACUUM ADVANCE OFF		THROTTLE POSITIONER SETTING SPEED (RPM)	1050		VALVE CLEARANCE	INTAKE	0.008 (0.20 mm)	EXHAUST	0.012 (0.30 mm)
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EVAP. FAMILY	EV-RC	
EXHAUST EMISSION CONTROL SYSTEM		AI+EGR+CCo

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

ENGINE TUNE UP SPECIFICATIONS

TRANSMISSION	MANUAL	AUTOMATIC
IDLE SPEED (RPM)	800 (N)	850 (N)
IGNITION TIMING (°BTDC)	8° @ MAX. 950 RPM	
IDLE MIXTURE SETTING (SEE REPAIR MANUAL FOR THE PARTICULARS)	LEAN DROP IDLE SET TO THE FOLLOWING VALUE AT BEST IDLE 870 (N)   920 (N) TURN IN IDLE MIXTURE ADJUSTING SCREW UNTIL 800 (N)   850 (N)	
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