SEE E.O. A-14-113-1

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## State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-113 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 1988 model-year Toyota Motors Corporation exhaust emission control systems are centified as described below for qasoline-powered passenger cars:

| Engine Family | Displacement<br>Liters (Cubic Inches) | Exhaust Emission Control Systems (Special Features)   |
|---------------|---------------------------------------|---|
| JTY2.0V5FBT9  | 2.0 (121.9)                           | Exhaust Gas Recirculation Heated Oxygen Sensor Three-Way Catalyst (Two) (Electronic Port Fuel Injection) (Turbocharger) (Intercooler) |

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

The following are the emission standards for this engine family:

| Hydrocarbons   | Carbon Monoxide | Nitrogen Oxides |  |  |
|----------------|-----------------|-----------------|--|--|
| Grams per Mile | Grams per mile  | Grams per Mile  |  |  |
| 0.39           | 7.0             |                 |  |  |

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

| Hydrocarbons   | Carbon Monoxide | Nitrogen Oxides |  |  |
|----------------|-----------------|-----------------|--|--|
| Grams per Mile | Grams per Mile  | Grams per Mile  |  |  |
| 0.14           | 0.7             | 0.2             |  |  |

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 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) 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 with Health and Safety Code Section 43204.

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

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

Executed at El Monte, California this Z day of August, 1987.

K. D. Drachand, Chief ↓ Mobile Source Division 17.11.00 Supplemental data sheets

| 10.11.00 Supplemental                         |          |          |           |                        |         |         |        |                |  |
|---|----------|----------|-----------|------------------------|---------|---------|--------|----------------|--|
| 1988  | AIR RES  | OURCES 1 | BOARD SU  | PPLEMENTAL             | DATA SH | eet i   | E.O. : | # <u>A-14-</u> |  |
|   |          |          |           |                        |         | 1       | Page   | 1              |  |
| Manufacturer <u>Toyota Mot</u>                | or Corpo | ration   | Engine    | Family                 | JTY2.   | OV5FBT9 |        |                |  |
| Evaporative Family                            | EV-E     |          | Engine    | Туре                   | 4 cyl.  | in-lin  | 9      |                |  |
|   |          |          |           | (CID)                  |         |         |        | -              |  |
| ABBREVIATIONS                                 |          |          | 2.0010    | (015)                  | 2.0     | 222.57  |        |                |  |
|   |          |          |           |                        |         |         |        |                |  |
|   |          |          |           |                        |         | X       |        |                |  |
| Ignition System                               |          | Exhaust  | Emissio:  | ns Control             | System  | Specia  | l Fea  | tures          |  |
| CA-Centrifugal Advance                        |          |          | Injecti   |                        |         | CCV-Co  |        |                |  |
| ECU-Electronic Control                        |          |          |           | on-V <b>a</b> lve      |         | Ch      | amber  | Valve          |  |
| EI-Electronic Ignition                        |          |          | l Bed Ca  |                        |         | CFI-Ce  | ntral  | Fuel           |  |
| ESAC-Electronic Spark A                       |          |          |           | Recirculat             |         |         | jecti  | on             |  |
| Control                                       |          |          |           | Injection (            | Control | DID-Di  | esel   |                |  |
| VA-Vacuum Advance                             |          |          | ne Modif  |                        |         |         | jecti  | on-            |  |
| VR-Vacuum Retard                              |          |          | ation Ca  |                        |         |         | rect   |                |  |
|   |          |          | en senso. |                        |         | DIP-Di  |        |                |  |
|   |          |          |           | en Sensor              |         |         | jecti  |                |  |
|   |          |          |           | Limiter or             |         |         | echam  |                |  |
|   |          |          | ottle De  |                        | 3       | EFI-El  |        |                |  |
| Fuel System                                   |          |          |           | er, Continu            |         |         |        | jection        |  |
| <u>Fuel System</u><br>CFI, CL, DID, DIP, EFI, |          |          | e-Way C   | er, Periodi            | rcar    | IC-Int  |        |                |  |
| nV-nVenturi Carburetor                        |          |          |           | atalyst<br>idation Cal | ]       | MFI-Me  |        | cooler         |  |
| nv nventuri Carburetor                        |          |          |           | hree-Way Ca            |         |         |        | car<br>jection |  |
|   |          | NOINC N  | ATHROP I  | ince way co            | rearyst | OBD-On- |        |                |  |
|   |          |          |           |                        |         |         | agnos  |                |  |
|   |          |          |           |                        |         | TC-Turi | _      |                |  |
| VEHICLE MODELS :                              |          |          |           |                        |         | 10 141  | Joena  | 1 301          |  |
|   | Celi     |          |           |                        |         |         |        |                |  |
|   |          |          |           |                        |         |         |        |                |  |
|   | ST165L-  | BLMVZA   | •         |                        |         |         |        |                |  |
|   | ,        |          |           |                        |         |         |        |                |  |
|   |          |          |           |                        |         |         |        |                |  |
|   |          |          |           |                        |         |         |        |                |  |
|   |          |          |           |                        |         |         |        |                |  |
|   |          |          |           |                        |         |         |        |                |  |

RWD \_\_\_\_ 4WD Full time \_x 4WD Part time \_\_\_\_

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Drive:

Engine: Front x Mid. Rear

| E.O. | # / | - [4] | 1.5 2 |  |
|------|-----|-------|-------|--|
|------|-----|-------|-------|--|

## 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

| Passenger (  | Cars <u>x</u> Light-D | uty Tru | cks      | Medium-Duty                                 | Vehicles   | Pag<br>_ Gas <u>x Di</u> | e <u>2</u><br>esel   |
|--|-----------------------|---------|----------|---|------------|--------------------------|--|
| Manufactur   | er <u>Toyota Mo</u>   | tor Cor | poration | n Engin                                     | e family   | JTY2.0V                  | FBT9   |
| Liter (CID   | 2.0                   | (121.9) |          | Eng.  | Type 4 cyl | . in-line                |  |
| Emission Control Sys. (Special Features) EGR + HOS + TWC + TWC (EFI + IC + TC) |                       |         |          |   |            |                          |  |
| Engine<br>code   | (II Coded see         | Туре    | Test     | Ign. System EEC,EI,ESAE Part No. [Computer] | Part No.   |                          | Catalyst<br>Part No.   |
| 1, 2   | ST165L-BLMVZA         | M5      | 3,625    |   |            |                          | 25508-74040<br>(Manifold<br>converter)<br>18450-74130<br>(Under floor) |

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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Issued: 05/26/87 Rev. 1: 06/26/87