

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-131
Relating to Certification of New Motor Vehicles

NISSAN MOTOR CO., LTD.

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 Nissan Motor Co., Ltd. exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

| <u>Engine Family</u> | <u>Displacement Liters (Cubic Inches)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|--|
| JNS2.4T5HDCX | 2.4 (145.8) | Exhaust Gas Recirculation Air Injection - Valve Dual Bed Catalyst Oxygen Sensor (Central 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:

| <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per mile</u> |
|--|---|---|
| 0.50 | 9.0 | 1.0 |

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

| <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per Mile</u> |
|--|---|---|
| 0.22 | 4.5 | 0.4 |

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.).

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 2nd day of August, 1987.



K. D. Drachand, Chief
Mobile Source Division

17.12.00 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: JNS2.4T5HDCX
 Evaporative Family: TBI-1 Engine Type: In-line 4, OHC
 Liters (CID): 2.4 (145.8)

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

CFI, CL, DID, DIP, EFI, MFI
 nV-nVenturi Carburetor

Exhaust Emission Control System

AIP-Air Injection-Pump
 AIV-Air Injection-Valve
 DBC-Dual Bed Catalyst
 EGR-Exhaust Gas Recirculation
 EM-Engine Modification
 OC-Oxidation Catalyst System
 SPL-Smoke Puff Limiter or Throttle Delay
 TOC-Trap Oxidizer, Continual
 TOP-Trap Oxidizer, Periodical
 EIC-Electronic Injection Control
 TWC-Three-Way Catalyst System
 ECC-Electronic Control Carburetor
 ECCS-Electronic Concentrated Control System
 OS-Oxygen Sensor
 HOS-Heated Oxygen Sensor
 WUOC-Warm-Up Oxidation Catalyst
 WUTWC-Warm-Up Three-Way Catalyst

Special Features

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection or Throttle Body Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 EFI-Electronic Fuel Injection
 IC-Intercooler or Aftercooler
 TC-Turbocharger
 OBD-On-Board Diagnostics
 MFI-Mechanical Fuel Injection

VEHICLE MODELS:

| <u>Engine Code</u> | <u>Model</u> | <u>Transmission</u> |
|--------------------|---|---------------------|
| AZ241CM5 | NISSAN E KING CAB 4X4 NISSAN XE KING CAB 4X4 | 5-speed Manual |
| BZ241CM5 | NISSAN E KING CAB 4X4 NISSAN XE KING CAB 4X4 | 5-Speed Manual |

Engine: Front X Mid. _____ Rear _____

Drive : FWD _____ RWD X 4WD Full Time _____ 4WD Part Time X

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

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: JNS2.4T5HDCX
 Litter (CID): 2.4 (145.8) Eng. Type: In-line 4, OHC
 Emission Control Sys. (Special Features): TBI/EGR/AIV/OC+TWC/CL/ECCS

| Engine Code | Vehicle Models (If Coded see attachment) (Dyno Hp) | Trans. Type | Equiv. Test Weight | Ign. System (ECU) Part No. | Fuel System Part No. | EGR Valve Part No. | Catalyst *** Part No. | | |
|-------------|--|-------------|--------------------|------------------------------|---------------------------------------|-----------------------|-----------------------|--|--|
| AZ24ICM3 | NISSAN E KING CAB 4X4 (14.5) | M5 | 3875** | Distributor D4P84-04 | SPI Body Assem- bly RGA50-35 | EGR Valve AEY76-88 | D-xx,xJ D-xx,xK | | |
| | NISSAN XE KING CAB 4X4 (14.5) | | | Control Unit MECS-G345 | Control Unit MECS-G345 | D-xx,xE D-xx,xF | | | |
| BZ24ICM3 | NISSAN E KING CAB 4X4 (14.5) | | | | | | | | |
| | NISSAN XE KING CAB 4X4 (14.5) | | | | | | | | |

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.

**EIW of these models are between 4000 - 5999 lbs.
 ***The figures and numbers in the place of the mark x are variable according to lot number and production date.