

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-118  
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 1987 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<br/>Cubic Inches (Liters)</u> | <u>Exhaust Emission Control Systems<br/>(Special Features)</u>                                                              |
|----------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| HNS2.4T5HBC2         | 145.8 (2.4)                                   | Exhaust Gas Recirculation<br>Air Injection - Valve<br>Dual Bed Catalyst<br>Heated Oxygen Sensor<br>(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>Equivalent<br/>Inertia<br/>Weight</u> | <u>Hydrocarbons<br/>Grams per Mile</u> | <u>Carbon Monoxide<br/>Grams per Mile</u> | <u>Nitrogen Oxides<br/>Grams per mile</u> |
|------------------------------------------|----------------------------------------|-------------------------------------------|-------------------------------------------|
| 0-3999                                   | 0.39                                   | 9.0                                       | 1.0                                       |

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

| <u>Equivalent<br/>Inertia<br/>Weight</u> | <u>Hydrocarbons<br/>Grams per Mile</u> | <u>Carbon Monoxide<br/>Grams per Mile</u> | <u>Nitrogen Oxides<br/>Grams per Mile</u> |
|------------------------------------------|----------------------------------------|-------------------------------------------|-------------------------------------------|
| 0-3999                                   | 0.16                                   | 2.6                                       | 0.6                                       |

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.) and with Health and Safety Code Section 43204.

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 23<sup>rd</sup> day of September, 1986.

  
K. D. Drachand, Chief  
Mobile Source Division

## 1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer NISSAN MOTOR CO., LTD. Engine Family HNS2.4T5HBC2  
Evaporative Family TBI-5 Engine Type In-line 4, OHC  
Liters (CID) 2.4 Liter (145.8 CID)

## ABBREVIATIONS

Ignition System

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

Exhaust Emissions Control System

AIP-Air Injection-Pump  
AIV-Air Injection-Valve  
CL-Closed Loop  
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  
TR-Thermal Reactor  
TWC-Three-Way Catalyst System  
ECC-Electronic Control Carburetor  
ECCS-Electronic Concentrated Control System

Special Features

CCV-Combustion Chamber Valve  
CFI-Central Fuel Injection  
DID-Diesel Injection-Direct  
DIP-Diesel Injection-Prechamber  
EFI-Electronic Fuel Injection  
IC-Intercooler or aftercooler  
MFI-Mechanical Fuel Injection  
TC-Turbocharger

1 System

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

VEHICLE MODELS:Engine Code

AZ24ICM1 ☐  
BZ24ICM1 ☐

Model

CARGO VAN STANDARD  
PASSENGER VAN E  
PASSENGER VAN XE

Transmission

☐ 5-speed Manual

AZ24ICA1 ☐  
BZ24ICA1 ☐

CARGO VAN STANDARD  
PASSENGER VAN E  
PASSENGER VAN XE

☐ Automatic

Engine: Front   x   Mid.        Rear         
Drive: FWD        RWD   x   4WD Full Time        4WD Part Time       

Issue Date : 08/06/86

Revision Date :

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Passenger Cars \_\_\_\_\_ Light-Duty Trucks X Medium-Duty Vehicles \_\_\_\_\_ Gas X Diesel \_\_\_\_\_

Manufacturer NISSAN MOTOR CO., LTD. Engine Family HNS2.4T5HBC2

Liter (CID) 2.4 Liter (145.8 CID) Eng. Type In-line 4, OHC

Emission Control Sys. (Special Features) (CFI)/EGR/AIV/TWC+OC/CL/2 PLUG

| Engine Code | Vehicle Models<br>(If Coded see attachment)<br><br>(Dyno Hp) | Trans. Type          | Equiv. Test Weight | Ign. System (ECU)<br><br>Part No.                           | Fuel System<br><br>Part No.                                            | EGR Valve<br><br>Part No.                                                                        | Catalyst<br><br>Part No. |
|-------------|--------------------------------------------------------------|----------------------|--------------------|-------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------|
| AZ241CM1    | CARGO VAN STANDARD (14.3)                                    | M5                   | 3375               | DISTRIBUTOR:<br>D4P84-04 (HITACHI)<br>TOT80771 (MITSUBISHI) | CONTROL UNIT:<br>MECS-C100<br><br>INJECTION BODY ASSEMBLY:<br>RGA50-27 | BPT Valve: 20802 17C00<br>ATI75-15 20802 17C05<br>EGR Valve: 20802 17C70<br>AEY76-88 20802 17C75 |                          |
|             | PASSENGER VAN E (14.3)                                       |                      | 3625               |                                                             |                                                                        |                                                                                                  |                          |
|             | PASSENGER VAN XE (14.3)                                      |                      | 3750               |                                                             |                                                                        |                                                                                                  |                          |
| BZ241CM1    | CARGO VAN STANDARD (13.0)                                    |                      | 3375               | CONTROL UNIT:<br>MECS-C100                                  |                                                                        |                                                                                                  |                          |
|             | PASSENGER VAN E (13.0)                                       |                      | 3625               |                                                             |                                                                        |                                                                                                  |                          |
|             | PASSENGER VAN XE (13.0)                                      |                      |                    |                                                             |                                                                        |                                                                                                  |                          |
| AZ241CA1    | CARGO VAN STANDARD (14.3)                                    | A4<br>(with lock-up) | 3500               | DISTRIBUTOR:<br>D4P84-04 (HITACHI)<br>TOT80771 (MITSUBISHI) | CONTROL UNIT:<br>MECS-C110<br><br>INJECTION BODY ASSEMBLY:<br>RGA50-28 |                                                                                                  |                          |
|             | PASSENGER VAN E (14.3)                                       |                      | 3750               |                                                             |                                                                        |                                                                                                  |                          |
|             | PASSENGER VAN XE (14.3)                                      |                      |                    |                                                             |                                                                        |                                                                                                  |                          |
| BZ241CA1    | CARGO VAN STANDARD (13.0)                                    |                      | 3375               | CONTROL UNIT:<br>MECS-C110                                  |                                                                        |                                                                                                  |                          |
|             | PASSENGER VAN E (13.0)                                       |                      | 3625               |                                                             |                                                                        |                                                                                                  |                          |
|             | PASSENGER VAN XE (13.0)                                      |                      |                    |                                                             |                                                                        |                                                                                                  |                          |

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.

Issue Date : 08/26/86

Revision Date :