

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-110
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 Cubic Inches (Liters)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|---|
| HNS2.4T5HCC4 | 145.8 (2.4) | Exhaust Gas Recirculation Air Injection - Valve Three-Way Catalyst and Oxidation Catalyst with Closed Loop (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 Inertia Weight</u> | <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per mile</u> |
|--|--|---|---|
| 4000-5999 | 0.50 | 9.0 | 1.0 |

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

| <u>Equivalent Inertia Weight</u> | <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per Mile</u> |
|--|--|---|---|
| 4000-5999 | 0.16 | 3.4 | 0.8 |

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.).

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 6th day of June, 1986.



K. D. Drachand, Chief
Mobile Source Division

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Manufacturer NISSAN MOTOR CO., LTD. Engine Family HNS2.4T5HCC4
 Evaporative Family TBI-2 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

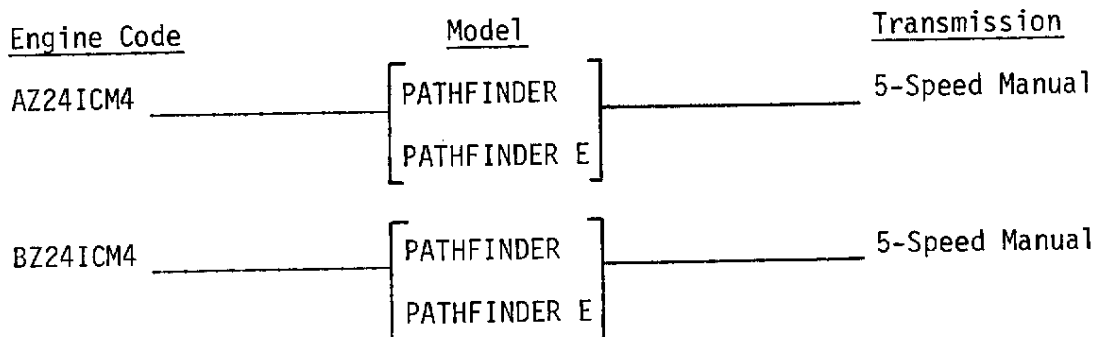
Special Features

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

Fuel System

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

VEHICLE MODELS:



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

198 7 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEETPassenger Cars _____ Light-Duty Trucks X Medium-Duty Vehicles _____ Gas X Diesel _____Manufacturer NISSAN MOTOR CO., LTD. Engine Family HNS2.4T5HCC4Liter (CID) 2.4 (145.8) Eng. Type In-Line 4, OHCEmission Control Sys. (Special Features) EGR/AIV/TWC+OC/CL/(CFI)

| Engine Code | Vehicle Models (If Coded see attachment) (Dyno Hp) | Trans. Type | Equiv. Test Weight | Ign. System (ECU) | Fuel System | EGR Valve | Catalyst |
|-------------|--|-------------|--------------------|---|----------------------------|--|--------------------------------|
| | | | | Part No. | CFI Part No. | Part No. | Part No. |
| AZ24ICM4 | PATHFINDER (15.5) | M5 | 3875 | Distributor: D4P84-04 (Hitachi) TOT80671 (Mitsubishi) Control Unit: MECS-G101 | Control Unit: MECS-G101 | BPT Valve: ATI75-15 EGR Valve: AEY76-88 | 20802 31G00 20802 31G05 |
| | PATHFINDER E (15.5) | | | | | | |
| BZ24ICM4 | PATHFINDER (14.0) | | | | | | |
| | PATHFINDER E (14.0) | | | | | | |

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.

Date of Issue _____ Revisions: _____