

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-145  
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</u> <u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems</u> <u>(Special Features)</u>
JNS2.4T5HEC1	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>Loaded Vehicle Weight</u>	<u>Hydrocarbons</u> <u>Grams per Mile</u>	<u>Carbon Monoxide</u> <u>Grams per Mile</u>	<u>Nitrogen Oxides</u> <u>Grams per Mile</u>
3751-5750	0.50	9.0	1.0

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

<u>Loaded Vehicle Weight</u>	<u>Hydrocarbons</u> <u>Grams per Mile</u>	<u>Carbon Monoxide</u> <u>Grams per Mile</u>	<u>Nitrogen Oxides</u> <u>Grams per Mile</u>
3751-5750	0.14	3.7	0.6

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 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 23<sup>rd</sup> day of December, 1987.



K. D. Drachand, Chief  
Mobile Source Division

#17.12.00-1

E.O. # A-15-145

17.12.00 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 1

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: JNS2.4T5HEC1  
 Evaporative Family: TBI-5 Engine Type: In-line 4, OHC  
 Liters (CID): 2.4 (145.8)

ABBREVIATIONS

<u>Ignition System</u>	<u>Exhaust Emission Control System</u>	<u>Special Features</u>
CA-Centrifugal Advance	AIP-Air Injection-Pump	CCV-Combustion Chamber Valve
EEC-Electronic Engine Control	AIV-Air Injection-Valve	CFI-Central Fuel Injection or Throttle Body Injection
EI-Electronic Ignition	DBC-Dual Bed Catalyst	DID-Diesel Injection-Direct
ESAC-Electronic Spark Advance Control	EGR-Exhaust Gas Recirculation	DIP-Diesel Injection-Prechamber
VA-Vacuum Advance	OS-Oxygen Sensor	EFI-Electronic Fuel Injection
VR-Vacuum Retard	HOS-Heated Oxygen Sensor	IC-Intercooler or aftercooler
	EM-Engine Modification	MFI-Mechanical Fuel Injection
	OC-Oxidation Catalyst System	TC-Turbocharger
	SPL-Smoke Puff Limiter or Throttle Delay	OBD-On-Board Diagnostics
	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	
	WUOC-Warm-UP Oxidation Catalyst	
	WUTWC-Warm-UP Three-Way Catalyst	

Fuel System

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

VEHICLE MODELS:

<u>Engine Code</u>	<u>Model</u>	<u>Transmission</u>
AZ24ICA6 BZ24ICA6	VAN GXE	4-speed automatic

Engine: Front X Mid.        Rear       

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

Issue Date: 11/13/87  
Revision Date:

\*17.12.00-2

17.12.00 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-15-145

Page 2

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

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: JNS2.4T5HEC1  
 Liter (CID) : 2.4 (145.8) Eng. Type: In-line 4, OHC  
 Emission Control Sys. (Special Features): TBI/EGR/AIV/TWC+OC/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.
AZ24ICA6	VAN GXE		4000	Distributor D4P34-04  TOT80771	SPI Body Assembly RGA50-28	EGR Valve AEY76-88	D-xx,xJ D-xx,xK D-xx,xE D-xx,xF
BZ24ICA6	VAN GXE	L4	3875	Control Unit MECS-C310 (MECS-C315)	Control Unit MECS-C310 (MECS-C315)		

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.

\*\*\*The figures and numbers in the place of the mark x are variable according to lot number and production date.