State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-161

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 1990 model-year Nissan Motor Co., Ltd. exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family	Displacement <u>Liters (Cubic Inches)</u>		Exhaust Emission Control Systems (Special Features)			
LNS2.4T5HAC6	2.4	(145.8)	Exhaust Gas Recirculation Pulsed Secondary Air Injection Oxygen Sensor Three-Way Catalyst with Oxidation Catalyst Throttle Body Electronic Fuel injection (On-Board Diagnostics)			

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

The following are the emission standards for this engine family:

Loaded Vehicle	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Weight (Pounds)	(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
3.751 - 5.750	0.50	9.0	1.0

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)
0.11	2.7	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 Code of Regulations, 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 Emission Control Label Specifications" [Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, 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 émission control system warranty provisions (Cailfornia Health and Safety Code Section 43205).

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

" day of January, 1989.

K. D. Drachand, Chief Mobile Source Division

Manufacturer: NISSAN HOTOR CO., LTD. Engine Family: LNS2.4T5HAC6 Evaporative Family: TBi-5			E.O. #	1 A-15-161
Evaporative Family: TBI-5 Engine Type: In-line 4, OHC Liters (CID): 2.4 (145.8) Liters (CID): 2.4 (17.12.00 1990 AIR RES	OURCES BOARD SUPPLI	EMENTAL DATA SHEE	
ABBREVIATIONS Ignition System CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard CFI SFI, HOS, OS, DIP, EPFI, MPFI, DID nV-nVenturi Carburetor VV-Variable Venturi Carburetor VEHICLE MODEL: Engine Code AIP-Air Injection-Pump AIV-Air Injection-Pump BCC-Dual Bed Catalyst ECR-Exhaust Gas Recirculation ECR-Exhaust Gas Recirculation ECR-Exhaust Gas Recirculation CFI Spark Advance Control VA-Vacuum Advance VR-Vacuum Advance VR-Vacuum Retard CFI SFI, HOS, OS, DIP, EPFI, MPFI, DID nV-nVenturi Carburetor VV-Variable Venturi Carburetor VEHICLE MODEL: Engine Code Model AZ24ICM1 VAN XE VAN XE VAN XE VAN GXE Engine: Front X Mid. Rear	Manufacturer: NISSAN MO	TOR CO., LTD. E	ngine Family: LNS	32.4T5HAC6
Exhaust Emission Control System Special Features	Evaporative Family: TBI	-5 Eı	ngine Type: <u>In-li</u>	ne 4, OHC
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Advance VR-Vacuum Retard CFI, SFI, HOS, OS, DIP, EFFI, MPFI, DID nV-nventuri Carburetor VV-Variable Venturi Carburetor VEHICLE MODEL: Engine Code AIP-Air Injection-Pump AIV-Air Injection-Pump AIV-Air Injection-Pump AIV-Air Injection-Pump BCR-Exhaust Gas Recirculation OS-Oxygen Sensor EM-Engine Modification OC-Oxidation Catalyst SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical EIC-Electronic Injection Control (Diesel Only) TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation Catalyst WUTVC-Warm-Up Three-Way Catalyst UTVC-Warm-Up Three-Way Catalyst VEHICLE MODEL: Engine Code Model AZ24ICM1 VAN XE VAN XE VAN XE	ABBREVIATIONS	L	iters (CID): 2.4	(145.8)
ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard VR-Vacuum Retard Fuel System CFI, SFI, HOS, OS, DIP, EPFI, MPFI, DID nv-nventuri Carburetor VR-Variable Venturi Carburetor VEHICLE MODEL: Engine Code AIV-Air Injection-Valve DBC-Dual Bed Catalyst EGR-Exhaust Gas Recirculation OS-Oxygen Sensor HOS-Heated Oxygen Sensor EM-Engine Modification OC-Oxidation Catalyst SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical EIC-Electronic Injection Control (Diesel Only) TWC-Three-Way Catalyst VUTWC-Warm-Up Oxidation Catalyst VUTWC-Warm-Up Oxidation Catalyst VUTWC-Warm-Up Three-Way Catalyst TOP-Trap Oxidizer VUTWC-Warm-Up Three-Way Catalyst TOP-Trap Oxidation Catalyst VUTWC-Warm-Up Three-Way Catalyst Top-Trap Oxidation Catalyst VUTWC-Warm-Up Three-Way Catalyst Top-Trap Oxidation Catalyst Top-Trap Oxidation Catalyst VUTWC-Warm-Up Three-Way Catalyst Top-Trap Oxidation Catalyst VUTWC-Warm-Up Three-Way Catalyst Top-Trap Oxidation Catalyst Top-Trap Oxidation Catalyst VUTWC-Warm-Up Three-Way Catalyst Top-Trap Oxidation Catalyst VUTWC-Warm-Up Three-Way Catalyst Top-Trap Oxidation Catalyst Top-Trap Oxidation Catalyst VUTWC-Warm-Up Three-Way Catalyst Top-Trap Oxidation Catalyst Top-Trap Oxidation Catalyst VUTWC-Warm-Up Three-Way Catalyst Top-Trap Oxidation Catalyst Top-Trap Oxidation Catalyst Top-Trap Oxidation Catalyst VUTWC-Warm-Up Three-Way Catalyst Top-Trap Oxidation Catalyst Top-Trap Oxidation Catalyst Top-Trap Oxidation Catalyst Top-Trap Oxidation Catalyst VUTWC-Warm-Up Oxidation Catalyst Top-Trap Oxidation Catalyst To	Ignition System	Exhaust Emission	Control System	Special Features
TOP-Trap Oxidizer, Periodical EPFI-Electronic Port EIC-Electronic Injection Control (Diesel Only) TWC-Three-Way Catalyst Fuel Injection MPFI-Mechanical Port Fuel Injection MPFI-Mechanical Port Fuel Injection MPFI-Mechanical Port Fuel Injection SFI-Sequential Fuel Injection TC-Turbocharger SC-Supercharger OBD-On-Board Diagnostics VEHICLE MODEL: Engine Code Model Transmission AZ24ICM1	ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance	AIV-Air Injection DBC-Dual Bed Cata EGR-Exhaust Gas R OS-Oxygen Sensor HOS-Heated Oxygen EM-Engine Modific OC-Oxidation Cata SPL-Smoke Puff Li Throttle Delay	n-Valve nlyst decirculation n Sensor nation nlyst miter or	Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber IC-Intercooler or
AZ24ICM1 VAN XE 5-speed Manual AZ24ICA1 VAN XE 4-Speed Automatic VAN GXE Engine: Front X Mid. Rear_	CFI, SFI, HOS, OS, DIP, EPFI, MPFI, DID nV-nVenturi Carburetor VV-Variable Venturi Carburetor	TOP-Trap Oxidizer EIC-Electronic In (Diesel Only) TWC-Three-Way Cat WUOC-Warm-Up Oxid	, Periodical jection Control alyst lation Catalyst	EPFI-Electronic Port Fuel Injection MPFI-Mechanical Port Fuel Injection SFI-Sequential Fuel Injection TC-Turbocharger SC-Supercharger OBD-On-Board
AZ24ICM1 VAN XE 5-speed Manual AZ24ICA1 VAN XE VAN GXE Engine: Front X Mid. Rear	Engine Code	Model	Т	ransmission
VAN GXE Engine: Front X Mid. Rear			-	
	AZ24ICA1		4-	Speed Automatic
	Engine: Front X Mid.	Rear		
			úe 4₩D Part	Time _X_

Issue Date: 09/22/88 Revision Date:

17.12.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 2

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

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: LNS2.4T5HAC6

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

Emission Control Sys. (Special Features): AIV/DBC/EGR/OS(FI/OBD)

	 Vehicle Models (If Coded see attachment)	Туре	Equiv. Test Weight	(ECU)	Fuel System Part No.		***
AZ24 ICM1	(Dyno Hp) VAN XE 	 W5 	# ## ##	Distributor D4P84-04 T0T80771 Control	SPI Body	 EGR Valve AEY76-88 	 D-xx,xJ
AZ24 [CA1	VAN XE			 Distributor D4P84-04 	SPI Body Assembly RGA50-28	!] -	
 	VAN GXE	L4 	** 4000	 Control Unit MECS-C355	 Control Unit MECS-C355		
 				1	 		

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.

Issue Date: 09/22/88

Revision Date: