

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-151
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 1989 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>
KNS2.4T5FACX	2.4 (145.8)	Air Injection - Valve Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst (Central 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:

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0 - 3750	0.39	9.0	1.0

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

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0 - 3750	0.17	3.6	0.5

BE IT FURTHER RESOLVED: That the listed models in the 0-3750 lbs. loaded vehicle weight class are 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 vehicle manufacturer is certifying the listed models in the 0-3750 lbs. loaded vehicle weight class to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx emission standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "In lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

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 also comply with 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.) and for the listed vehicle models in the 0-3750 lbs. loaded vehicle weight class with the 2 year/24,000 mile warranty provisions of 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 18th day of July, 1988.


K. D. Drachand, Chief
Mobile Source Division

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Page 1

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5FACX

Evaporative Family: TBI-1 Engine Type: In-line 4, OHC

Liters (CID): 2.4 (145.8)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
ECU-Electronic Control Unit
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Fuel System

CFI, SFI, HOS, OS,
DIP, EPFI, MPFI, DID
nV-nVenturi Carburetor
VV-Variable Venturi Carburetor

Exhaust Emission Control System

AIP-Air Injection-Pump
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
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
IC-Intercooler or Aftercooler
EPFI-Electronic Port Fuel Injection
MPFI-Mechanical Port Fuel Injection
SFI-Sequential Fuel Injection
TC-Turbocharger
SC-Supercharger
OBD-On-Board Diagnostics

VEHICLE MODELS:

Engine Code

Model

Transmission

AZ24ICM2 ----- NISSAN STANDARD REGULAR BED ----- 4-speed Manual
NISSAN E REGULAR BED ----- 5-speed Manual
NISSAN E LONG BED
NISSAN E KING CAB
NISSAN XE KING CAB

Engine: Front X Mid. _____ Rear _____

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

Issue Date: 04/20/88

Revision Date:

*17.12.00-2

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Page 2

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

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5FACX
 Litter (CID): 2.4 (145.8) Eng. Type: In-line 4, OHC
 Emission Control Sys. (Special Features): AIV/EGR/OS/TWC (CFI/OBD)

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.
AZ241CM2	NISSAN STANDARD REGULAR BED (11.7)	M4	3125	Distributor D4P84-04	SPI Body Assem- bly RGA50-41	EGR Valve AEY76-88	xx,xX
				TOT80671			xx,xY
	NISSAN E REGULAR BED (11.7)			Control Unit MECS-G525	Control Unit MECS-G525		xx,xE
	NISSAN E LONG BED (12.2)	M5	3250				xx,xF
	NISSAN E KING CAB (10.9)						
NISSAN XE KING CAB (10.9)			3375				

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.

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Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5FACX

Evaporative Family: TBI-1 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
ECU-Electronic Control Unit	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	IC-Intercooler or Aftercooler
VR-Vacuum Retard	HOS-Heated Oxygen Sensor	EPFI-Electronic Port Fuel Injection
	EM-Engine Modification	MPFI-Mechanical Port Fuel Injection
	OC-Oxidation Catalyst	SFI-Sequential Fuel Injection
	SPL-Smoke Puff Limiter or Throttle Delay	TC-Turbocharger
	TOC-Trap Oxidizer, Continual	SC-Supercharger
	TOP-Trap Oxidizer, Periodical	OBD-On-Board Diagnostics
	EIC-Electronic Injection Control (Diesel Only)	
	TWC-Three-Way Catalyst	
	WUOC-Warm-Up Oxidation Catalyst	
	WUTWC-Warm-Up Three-Way Catalyst	

Fuel System

CFI, SFI, HOS, OS, DIP, EPFI, MPFI, DID
nV-nVenturi Carburetor
VV-Variable Venturi Carburetor

VEHICLE MODELS:

<u>Engine Code</u>	<u>Model</u>	<u>Transmission</u>
BZ24ICM2 -----	NISSAN STANDARD REGULAR BED	----- 4-Speed Manual
	NISSAN E REGULAR BED	----- 5-Speed Manual
	NISSAN E LONG BED	
	NISSAN E KING CAB	
	NISSAN XE KING CAB	

Engine: Front X Mid. _____ Rear _____

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

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Page 4

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

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5FACX
 Litter (CID): 2.4 (145.8) Eng. Type: In-line 4, OHC
 Emission Control Sys. (Special Features): AIV/EGR/OS/TWC (CFI/OBD)

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.
BZ24ICM2	NISSAN STANDARD REGULAR BED (11.7)	M4	3125	Distributor D4P84-04	SPI Body Assembly RGA50-41	EGR Valve AEY76-88	xx, xX xx, xY
	NISSAN E REGULAR BED (11.7)			Control Unit MECS-G525	Control Unit MECS-G525		xx, xE xx, xF
	NISSAN E LONG BED (12.2)	M5	3250				
	NISSAN E KING CAB (10.9)						
	NISSAN XE KING CAB (10.9)						

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.

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Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5FACX

Evaporative Family: TBI-1 Engine Type: In-line 4, OHC

Liters (CID): 2.4 (145.8)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
ECU-Electronic Control Unit
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Exhaust Emission Control System

AIP-Air Injection-Pump
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
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
IC-Intercooler or Aftercooler
EPFI-Electronic Port Fuel Injection
MPFI-Mechanical Port Fuel Injection
SFI-Sequential Fuel Injection
TC-Turbocharger
SC-Supercharger
OBD-On-Board Diagnostics

Fuel System

CFI, SFI, HOS, OS,
DIP, EPFI, MPFI, DID
nV-nVenturi Carburetor
VV-Variable Venturi Carburetor

VEHICLE MODELS:

Engine Code

Model

Transmission

AZ24ICA2 -----NISSAN STANDARD REGULAR BED ----- 4-speed Automatic
NISSAN E REGULAR BED
NISSAN E LONG BED
NISSAN E KING CAB
NISSAN XE KING CAB

Engine: Front X Mid. _____ Rear _____

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

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

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5FACX
 Litter (CID): 2.4 (145.8) Eng. Type: In-line 4, OHC
 Emission Control Sys. (Special Features): AIV/EGR/OS/TWC (CFI/OBD)

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.	Part No.	Part No	Part No.
AZ24ICA2	NISSAN STANDARD REGULAR BED (11.7)	L4	3125	Distributor D4P84-04 TOT80671	SPI Body Assem- bly RGA50-42	EGR Valve AEY76-88	xx,xX xx,xY xx,xE xx,xF
	NISSAN E REGULAR BED (11.7)		3250				
	NISSAN E LONG BED (12.2)						
	NISSAN E KING CAB (10.9)		3375	Control Unit MECS-G535	Control Unit MECS-G535		
	NISSAN XE KING CAB (10.9)						

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.

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Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5FACX

Evaporative Family: TBI-1 Engine Type: In-line 4, OHC

Liters (CID): 2.4 (145.8)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
ECU-Electronic Control Unit
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Fuel System

CFI, SFI, HOS, OS,
DIP, EPFI, MPFI, DID
nV-nVenturi Carburetor
VV-Variable Venturi Carburetor

Exhaust Emission Control System

AIP-Air Injection-Pump
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
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
IC-Intercooler or Aftercooler
EPFI-Electronic Port Fuel Injection
MPFI-Mechanical Port Fuel Injection
SFI-Sequential Fuel Injection
TC-Turbocharger
SC-Supercharger
OBD-On-Board Diagnostics

VEHICLE MODELS:

Engine Code

Model

Transmission

BZ24ICA2 -----NISSAN STANDARD REGULAR BED ----- 4-speed Automatic
NISSAN E REGULAR BED
NISSAN E LONG BED
NISSAN E KING CAB
NISSAN XE KING CAB

Engine: Front X Mid. _____ Rear _____

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

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

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS2.4T5FACX
 Litter (CID): 2.4 (145.8) Eng. Type: In-line 4, OHC
 Emission Control Sys. (Special Features): AIV/EGR/OS/TWC (CFI/OBD)

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.	
BZ24ICA2	NISSAN STANDARD REGULAR BED (11.7)	L4	3125	Distributor	SPI	EGR Valve	xx,xX	
				D4P84-04	Body Assem-	AEY76-88	xx,xY	
				TOT80671	bly			xx,xE
						RGA50-42		xx,xF
	NISSAN E REGULAR BED (11.7)							
	NISSAN E LONG BED (12.2)		3250					
	NISSAN E KING CAB (10.9)			Control Unit MECS-G535	Control Unit MECS-G535			
	NISSAN XE KING CAB (10.9)		3375					

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.

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