State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-176
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 passenger cars:

Engine Family: LNS4.5V5FACX Displacement: 4.5 Liters (274 Inches^3)

Exhaust Emission Control Systems (Special Features):

Dual Warm-Up Three-Way Catalysts
Dual Three-Way Catalysts
Dual Heated Oxygen Sensors
Exhaust Gas Recirculation
Sequential Multipoint Electronic Fuel Injection
On-Board Diagnostics (Exempted)

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

The following are the exhaust emission standards for this engine family:

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.39	7.0	0.4

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

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.19	0.7	0.1

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 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 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 emission control system warranty provisions (California 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 17th day of August, 1989.

for K. D. Drachand, Chief
Mobile Source Division

*17.11.00-1

E.O. # A-15-176

17.11.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 1

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: LNS4.5V5FACX

Pass Cars X Lt-Duty Trucks ____ Med-Duty Vehicles ____ Gas X Diesel ____

Eng.Type V-8, DOHC Liter (CID) 4.5 (274.3) Evap.Family FI8-1

Emission Control Sys.(Use SAE Abbrv.) TWC/HO2S/EGR/SMPI/OBD EXEMPT

Engine:Front X Mid. ____ Rear ____ Drive:FWD ____ RWD X 4WD-FT ____ 4WD-PT ____

Engine Code/	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	RLHP or DPA	Ign. System (ECU) Part No.	EGR Valve Part No	Catalyst ** Part No.
AN45DCA1	Q45 STD 4-DOOR SEDAN (with MICHELIN tire) Q45 4-DOOR SEDAN (with MICHELIN tire) Q45 TOURING SUSPENSION PACKAGE 4-DOOR SEDAN (with MICHELIN tire)	L4	4250	8.9	Control Unit A18-A32	AEY77-37	Main cat (LH) Zxx, xK Zxx, xP Zxx, xQ (RH) Zxx,xL Zxx,xR Zxx,xS Pre-cat. (LH) KLxx,x1 (RH) KRxx,x2

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.

Issue Date: 04/21/89
Revision Date:

*17.11.00-2

E.O. #A-15-176

17.11.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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