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 <u>Displacement</u>: 4.5 Liters (274 Inches³)

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	Carbon Monoxide	Nitrogen Oxides		
(Grams per Mile)	(Grams per Mile)	<u>(Grams per Mile)</u>		
0.39	7.0	0.4		

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
<u>(Grams per Mile)</u>	<u>(Grams per Mile)</u>	(Grams per Mile)		
∩ 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 IJ 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 17 day of

day of August, 1989.

K. D. Drachand, Chief
Mobile Source Division

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Manufacture: 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 Cortrol 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/ 	Venicle Models (If Coded see attachment)	Type	Equiv. Test Weight	or	Ign. System (ECU) Part No.	EGR Valve	all
			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 dy: 3 test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

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

Issue Date: 14/21/89

Revision Date:

E.O. #A-15-176 17.11.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 2 Hanufacturer: 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 ----|-----|-----|-----| | Ign. System| EGR Valve | Catalyst RLHP |Code/ |(If Coded see |Type |Test | or |Weight| DPA | attachment) | Part No. | Part No | Part No. |Main cat| 1Q45 STD [(LH) 14-DOOR SEDANI IZxx, xK | (with B.S. or | |Zxx, xP | DUNLOP tire) | |Control | AEY77-37 |Zxx, xQ Unit | (RH) 1045 |AN45DCA1|4-DOOR SEDAN | L4 |4250 | 9.5 12xx,xL A18-A32 |Zxx,xR l(with B.S. or I |Zxx,xS | DUNLOP tire) Pre-cat. 1Q45 TOURING | (LH) ISUSPENSION |KLxx,x1|IPACKAGE (RH) 14-DOOR SADAN KRxx, x2 I(with B.S. or

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.

Issue Date: 04/21/89

| DUNLOP tire)

Revision Date:

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