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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-307 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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1997 model-year Nissan Motor Co., Ltd. exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: VNS3.328G2EK Displacement: 3.3 Liters (199.8 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Dual Three Way Catalytic Converters Dual Heated Oxygen Sensors (two) Exhaust Gas Recirculation Sequential Multiport Fuel Injection

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

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) TLEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	CO	<u>NOx</u>	_нсно_	<u>CO (20°F)</u>
3751-5750	50,000	0.160	4.4	0.7	0.018	12.5
	100,000	0.200	5.5	0.9	0.023	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for NMOG reflect application of a 0.98 RAF for 1997 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	<u>CO</u>	<u>NOx</u>	нсно	CO (20°F)
3751-5750	50,000	0.111	1.2	0.2	0.002	7.7
	100,000	0.115	1.3	0.3	0.002	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth 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 under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, 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" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit 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 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 (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

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 173

day of July 1996.

R. B/Summerfield

Assistant Division Chief Mobile Source Division

17.11.00 Supplemental Data Shee! .01 1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES
Manufacturer: NISSAN MOTOR CO., LTD. Exh Eng Fam: WNS3.328G2EK Evap Fam: WNS1110AYMEA
All Eng Codes in Eng Fam: CAX 495_ 505_ AB965
Exh Std: CA Tier-1 TLEV_X LEV ULEV ZEV; US EPA Tier-1_X
Evap Std: 50K Useful Life with R/L X In-Use Exh Std: Full In Use X Alt In Use
Veh Class(es): PC LDT1 LDT2_X MOV1 MOV2 MOV3 MOV4 MDV5
Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
Puel Type(s): Dedicated X Flex-Fuel Dual-Fuel Bi-Fuel Gasoline X Diesel
CNG LNG LPG MB5 Other (specify)
Emiss Test Fuel(s): IndoPh2_X CNG LPG M85 Other (specify)
Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94
Service Accum: Std AMA_X Nod AMA_ Mfr ADP_ Other (specify)
NMOG Test Procedure: N/A Std X Equiv R/L Test Proc: SHED Pt Source X
Hybrid: Type A B C APU Cycle (e.g., Otto, Diesel, Turbine)
Engine Configuration: V6 Displacement: 3.3 Litters 199.8 Cubic Inches
Valves per Cylinder: 4 Rated HD: 168 6 4800 RPM
Engine: Front X Mid Rear Drive: FWD RWD X 4WD-FT 4WD-PT X
Exchange ECS (eg., EGR, MFI, TC, CAC): 2TWC/2HD25(2)/EGR/SFI

2/ Supplemental data sheet is not changed by R/C No.V3328G2E-02 at all.

Issue Date : 04/30/96

Revision Date : 1/ 06/28/96 2/ 10/25/96

17.11.01 1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES (continued)

::NISSAN MOTOR CO., LTD. Ech Eng Fam: YNS] 128G2EK Evap Fam: YNS1110AYMEA

	Vehicle Models	Trans.	EIM	DPA	29000		
		(M5, A4		or	(ECH/PCH)		Converter
	(if coded see		Test WC	RLH?	Part No.	Part No.	Part No.
	attachment)		-		ECH	AEY77-92	OWS
AV33ECAL	NISSAN	24	4250	14.7	несн		
	PATHFINDER	A4	123		-W185		
•	2WD XE		ļ		(Before		
•	NISSAN		}		R/C No.		
•	PATHPINDER				V3328G2E		
	2WD LE			 	-021		
	NISSAN		}	16.1	MECH-W186		
	PATHFINDER		4500	70-7	(After		
	4WD XE				R/C No.		
•	NAERIN		Ì		V3328G2E		
	PATHFINDER				1		
	4WD LE	1			-02 <u>1</u> /		
	NISSAN				(Before		
	PATHPINDER	}		16.6	R/C No.	i	
	4WD SE				V3328G2E		
BV33ECAL	NISSAN	1		}	-03)		,
3.332	PATHFINDER		4250		MECM-W187	1	
	2WD XE			13.4	(After		
+				ļ	R/C No.		
					V3328G2E		
	NISSAN	1			-03) <u>2</u> /		
	PATHFINDER		4500		(Before	:	
	4WD XE			14.6	F/F No.	ļ	
	4MD VE				V3328G2E	İ	
			1		-04)		
		4			HECH-W188		
•	NISSAN				(After		
	PATHFINDER			15.1	F/F No.		
	4WD SE			}	V3328G2E		
					-04) <u>3</u> /	-	

1/ With R/C No. V3328G2E-02 2/ With R/C No. V3328G2E-03 3/ With F/F No. V3328G2E-04

Issue Data : 04/30/96

Revision Date : 1/ 10/25/96 2/ 12/09/96 1/ 01/31/97

E.O.# <u>A15-307</u>

17.11.01 1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES (continued)

::NISSAN MOTOR CO., LTD. Exh Eng Fam: VNS]. 328G2EX Evap Fam: VNS1110AYMEA

Engine Code	Vehicle Models	Trans.	EIW	DPA	Ignicion	EGR	Cacalytic
	(if coded see	(M5, A4	or	or	(ECH/3CH)		Converter
	attachment)	etc.)	Test Wt	RLHP	Part No.	Part No.	L
AV33ECH1	NAZZIN				ECH	A5277-92	OH5
	PATHFINDER	X 5	4000	14.7	1	1	
	2WD XE				-W175		
	NISSAN			-	(Bfore		
	PATHFINDER		4500	16.0	R/C No.		
	4WD XE				V3328G2Z		
	NISSAN				-02)		
	PATHFINDER			17.4	MECH-W176		
,	AWD SE				(After		,
BV33ECH1					R/C No.		
	NISSAN		4000	13.4		·	
	PATHFINDER				-02) <u>1</u> /		
	2WD XZ				(Before		
		į			R/C No.	i	
					V3328G2E		
	}		Í		-03}		
ŀ					HECK-W177		
	NISSAN		4500	14.5	(After		
	PATHFINDER				R/C No.	•	
	4WD XZ				V3328G2E		
		- 1			-031 2/		
		ŀ			(Before	İ	
1			1		F/F No.		
f			ſ		V3328G2E		
1	NISSAN			15.8	-04)		
	PATHFINDER				несн-и178		
	4WD SE	Ì			(After	ļ	
			ļ		P/F No.	-	
			ŀ]	V3328G2E	[
		ļ	j	[-04) 3/	_ 1	

1/ With R/C No. V3328G2E-02 2/ With R/C No. V3328G2E-03 3/ With P/P No. V3328G2E-04

Issue Date : 04/30/96

Revision Date : 1/ 10/25/96 2/ 12/09/96 3/ 01/31/97