State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-178 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: LNS3.0T5FDC1 Displacement: 3.0 Liters (180.6 Cu. In.)

Exhaust Emission Control Systems (Special Features):

Three-Way Catalyst
Heated Oxygen Sensor
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 emission standards for this engine family:

Loaded Vehicle <u>Weight(lbs.)</u>	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
	(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:

Loaded Vehicle Weight(lbs.)	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
	(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
3,751 - 5,750	0.28	4.4	0.3

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 2 day of August, 1989.

D. Drachand, Chief Mobile Source Division

E.O. # A-15-17

17.11.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufactur	er: NISSAN MOTO	OR CO.,	LTD.	Engine Fa	mily: LMS3.OT	5FDC1	on a subsection of the subsect
Pass Cars	Lt-Duty Tr	ucks	X Med-	Duty Vehic	les Gas_	X Dies	e I
Eng.Type_	V-6, OHC Li	iter (C	ID) <u>3.0</u>	(180.6)	Evap.Family	F16-3	•
Emission (Control Sys.(Use	SAE AI	bbrv.) _	TVC/HO2S/E	GR/SHPI/OBD E	XEHPT	
Engine:Fro	ont X Mid	Rea	r D	rive:FVD	RWD_X41	VD-FT	4VD-PT
Code		Type	 Equiv. Test Veight 	or	Ign. System (ECU) Part No.	ĺ I	###
	 PATHFINDER 2-DOOR 4X2 SPORT UTILITY XE			15.5 16.0	Control		
•	PATHFINDER 2-DOOR 4X2 SPORT UTILITY XE	L4	3895	14.0 14.5	Unit MECM-V281 1/	- 	Gxx,xxK Gxx,xxL
	PATHFINDER 2-DOOR 4X2 SPORT UTILITY XE		** 4000	•	 Control		Gxx,xxB Gxx,xxC
	ATHFINDER 2-DOOR 4X2 SPORT UTILITY	N5	3875	14.0		AEY77-38	

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. 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: 05/02/89

Revision Date: 1/ 03/13/90

		•	-T1-TT"	VU 4		គ ស	# A-18	ニコス
1	7.11.00	19 <u>90</u> AIR RESOUR	CES BOA	ARD SUPP	LEMENTAL DA	ATA SHEET	#_ <u>/1/</u> 2 ge2	-170
H	lanufactur	er: NISSAN MOTO	R CO.,	LTD.	Engine Far	ily: LNS3.0T5	FDC1	
F	ass Cars	Lt-Duty Tr	ucks}	Ked-	Duty Vehic	lesGas_	XDiesel	
E	Eng.Type_	V-6, OHC	iter (C)	(D) <u>3.0</u>	(180.6)	Evap.Family	F16-3	-
. [Emission (Control Sys.(Use	SAE AL	brv.)	TWC/HO2S/E	GR/SMPI/OBD EX	EMPT	
i	Engine:Fro	ont X Hid.	Kear	· D	rive:FWD	· RWD 4V	ID-FT	IVD-PT X
	Code	Vehicle Hodels (If Coded see attachment)	Type	Test	RLHP or DPA	Ign. System (ECU) Part No.	<u>.</u>	***
		HARDBODY 4X4 SE V8 KING CAB			·	Control Unit MECH-V241 1	·]	
	i 1	PATHFINDER 4-DOOR 4X4 SPORT UTILITY SE	 	! ! !			: :	
		PATHFINDER 2-DOOR 4X4 SPORT UTILITY SE	-			HECH-V281	AEY77-39	Gxx,xxL Gxx,xxB
		PATHFINDER 2-DOOR 4X4 SPORT UTILITY SE	 			1/		Gxx,xxC
] 	 PATHFINDER 4-DOOR 4X4 SPORT UTILITY	 	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. -##EIV of these models are between 4000 - 5999 lbs.

Issue Date: 05/02/89

Revision Date: 1/ 03/13/90 1/ With R/C No. L30T5FDC-01

^{###}The figures and numbers in the place of the mark x are variable according to lot number and production date.

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Hanufactur	er: NISSAN MOTO	R CO.,	LTD.	Engine Fam	ily: LNS3.OT	FDC1				
Pass Cars	Lt-Duty Tr	ucks	X Hed-	Duty Vehicl	es Gas_	X Diese				
- -	V-6, OHC Li									
	Control Sys.(Use									
Engine:Fro	ont X_ Mid	Real	r D	rive:FWD	RWD 4	VD-FT	4WD-PT X			
Code		Туре	Equiv. Test Veight	or	Ign. System (ECU) Part No.	[]				
	HARDBODY 4X4 V6 REGULAR BED	 _	3875	14.5	<u> </u>					
	PATHFINDER 2-DOOR 4X4 SPORT UTILITY XE			15.5	 Control Unit HECH-V281					
AV30ECA8	PATHFINDER 4-DOOR 4X4 SPORT UTILITY XE	 	## 4250		1/					
	HARDBODY 4X4 SE V6 KING CAB		 	! 			14.5	Control Unit HECH-V241 1		
	PATHFINDER 4-DOOR 4X4 SPORT UTILITY SE			 	Control Uint HECH-V281 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.

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Issue Date: 05/02/89

Revision Date: 1/ 03/13/90

1/ With R/C No. L30T5FDC-01

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					1.6	, e e = = <u> </u>	-
Kanufactur	er: MISSAN HOTO	R CO.,	LTD.	Engine Fami	ly: LNS3.0T	FDC1	
Pass Cars_	Lt-Duty Tr	ucks_X	Ned-	Duty Vehicle	s Cas	XDie	sel
Eng.Type	V-6, OHC Li	ter (CI	D) 3.0	(180.6)	Evap. Family	F I6-3	
Emission C	Control Sys.(Use	SAE Ab	brv.)	TWC/HO2S/EGI	R/SMPI/OBD E	KENPT	:
Engine:Fro	ont X Mid.	Rear	D	rive:FVD		WD-FT	4VD-PT X
Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv.	RLHP or	Ign. System (ECU)	EGR Va	ve Catalyst ###
	attachment)	 			Part No.	Part	No Part No.
_	PATHFINDER 2-DOOR 4X4 SPORT UTILITY SE PATHFINDER 2-DOOR 4X4 SPORT UTILITY		 	16.0	 Control Unit MECM-V281 1/		
	HARDBODY 4X4 V6 REGULAR BED	1	3875	14.5	Control Unit MECH-V241 1	AEY77-	llve Gxx,xxK 39 Gxx,xxL 60xx,xxB
	PATHFINDER 2-DOOR 4X4 SPORT UTILITY XE PATHFINDER 4-DOOR 4X4	 	‡≠ 4250	•	Control Unit HECH-V281 1/		Gxx,xxC

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.

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Issue Date: 05/02/89

Revision Date: 1/ 03/13/90

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E.O. # A-15-178

17.11.00 1990 AIR RESOURCES BOARD SUPPLEHENTAL DATA SHEET

17.11.00	1880 MIK KESOOK	CES DO		DEMENTING DIT	Pe	ige 5	
Manufactu	rer: NISSAN MOTO	R CO.,	LTD.	Engine Fami	ly: LNS3.OT	FDC1	
Pass Cars	Lt-Duty Tr	ucks	K Hed-	Duty Vehicle	sGas_	X_ Diesel	
Eng. Type_	V-6, OHC L	iter (C)	ID) <u>3.0</u>	(180.6)	Evap.Family	F16-3	
Emission (Control Sys.(Use	SAE AI	bbrv.)	TVC/HO2S/EG	R/SMPI/OBD EX	KEMPT	
Engine:Fr	ont X Nid.	Rea	r I	rive:FWD	_ RVD 4\	ID-FT	IWD-PT X
Code	 Vehicle Models (If Coded see attachment)	Туре	Test	or	Ign. System (ECU) Part No.	•	###
	HARDBODY 4X4 V6 REGULAR BED HARDBODY 4X4	-	3875	14.5	 - Control Unit MECM-V231		
	SE V6 KING		 		1/		
	PATHFINDER 2-DOOR 4X4 SPORT UTILITY XE		!	 	•	•	Gxx,xxL Gxx,xxB
	 PATHFINDER 4-DOOR 4X4 SPORT UTILITY XE		 	· <u>.</u>	Control Unit MECH-V271 1/		Gxx,xxC
_	PATHFINDER 4-DOOR 4X4 SPORT UTILITY		 	16.0			

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. ##EIV 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: 05/02/89

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17.11.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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ŀ	lanufactur	er: NISSAN MOTO	R CO.,	LTD.	Engine Fa	mily: LNS3.0T5	FDC1	
I	Pass Cars	Lt-Duty Tr	ucks>	Med-	Duty Vehic	lesGas	X Diese	
ì	Eng.Type	V-8, OHC Li	ter (C)	(D) <u>3.0</u>	(180.6)	Evap.Family_	F16-3 .	
}	Emission C	Control Sys.(Use	SAE AL	obrv.)	TWC/HO2S/E	GR/SMPI/OBD EX	CEMPT	
}	Engine:Fro	ont X Mid.	Rear	D	rive:FWD	RWD 4\	VD-FT	4WD-PT X
	 Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Veight	RLHP or DPA	Ign. System (ECU) Part No.	•	
•	AV30ECH8	PATHFINDER 2-DOOR 4X4 SPORT UTILITY SE	•	## 4250	16.0	Control Unit HECH-V271	· ·	
		HARDBODY 4X4 V6 REGULAR BED		3875	14.5	Control Unit MECH-V231 1		
	 	PATHFINDER 2-DOOR 4X4 SPORT UTILITY XE	 		14.0	Control	1	[Gxx,xxL]
		PATHFINDER 4-DOOR 4X4 SPORT UTILITY XE				1/		The second secon
		HARDBODY 4X4			 14.5 	Control Unit		

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.

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Revision Date: 1/ 03/13/90

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17.11.00	1990 AIR RESOUR	RCES BO	ARD SUPF	PLEMENTAL DA	ATA SHEET	age 7	
Hanufactu	rer: NISSAN HOTO	OR CO	LTD.	Engine Far	nily: LNS3.OT	5FDC1	
Pass Cars	Lt-Duty Ti	ucks	X Ned-	Duty Vehic	lesGas_	X_ Diese	1
Eng. Type	V-6, OHC L	iter (C	ID)3.0	(180.6)	Evap.Family	F16-3	•
Emission (Control Sys.(Use	SAE A	bbrv.)	TVC/HO2S/E	R/SMPI/OBD E	XEMPT	
Engine:Fro	ont X Mid.	Rea	r [rive:FWD	RWD4	UD-FT	4VD-PT X
	Vehicle Models (If Coded see attachment)	Туре	Test	or	Ign. System (ECU) Part No.		
 BV30ECM8	PATHFINDER 4-DOOR 4X4 SPORT UTILITY SE PATHFINDER 2-DOOR 4X4	M5	*** 4250	14.5	 Control Unit MECM-V271 1/	AEY77-38	Gxx,xxL

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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SPORT UTILITY