

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-165  
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: LNS1.6V5FAC3      Displacement: 1.6 Liters (97.5 Inches<sup>3</sup>)

Exhaust Emission Control Systems (Special Features):

- Three-Way Catalyst
- Oxygen Sensor
- Pulsed Secondary Air Injection
- Exhaust Gas Recirculation
- Throttle Body Electronic Fuel Injection
- On-Board Diagnostics

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:

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

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

<u>Hydrocarbons</u> <u>(Grams per Mile)</u>	<u>Carbon Monoxide</u> <u>(Grams per Mile)</u>	<u>Nitrogen Oxides</u> <u>(Grams per Mile)</u>
0.12	1.7	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 also comply 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 14<sup>th</sup> day of June, 1989.



K. D. Drachand, Chief  
Mobile Source Division

#17.11.00-1

17.11.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-15-165

Manufacturer: NISSAN MOTOR CO., LTD.

Engine Family: LNS1.6V5FAC3 Page 1

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

Eng. Type In-line 4, OHC Liter (CID) 1.6 (97.5) Evap. Family TBI-6

Emission Control Sys. (Use SAE Abbrev.) TWC/PAIR/O2S/EGR/TBI

Engine: Front X Mid.      Rear      Drive: FWD X RWD      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.
AG16ICM1	SENTRA 2-DOOR SEDAN STANDARD	M4	2500	7.3	Control Unit A11-B31 1/	EGR Valve AEY76-46	Y-xx,xxK Y-xx,xxL Y-xx,xxH Y-xx,xxJ
BG16ICM1	SENTRA 2-DOOR SEDAN STANDARD						
AG16ICM1	SENTRA 2-DOOR SEDAN E	M5	2625				
	SENTRA 2-DOOR SEDAN XE						
	SENTRA 4-DOOR SEDAN E						
AG16ICM1	SENTRA 4-DOOR SEDAN XE						

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: 02/16/89  
Revision Date: 1/ 05/26/89

\*17.11.00-2

17.11.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-15-165

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Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: LNS1.6V5FAC3

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

Eng. Type In-line 4, OHC Liter (CID) 1.6 (97.5) Evap. Family TBI-6

Emission Control Sys. (Use SAE Abbrev.) TWC/PAIR/O2S/EGR/TBI

Engine: Front X Mid. \_\_\_\_\_ Rear \_\_\_\_\_ Drive: FWD X RWD \_\_\_\_\_ 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.
AG16ICM1	SENTRA COUPE XE	M5	2625	6.7	Control Unit A11-B31 1/	EGR Valve AEY76-46	Y-xx,xxK
	SENTRA COUPE SE						Y-xx,xxL
	SENTRA 2-SHEEL DRIVE WAGON E		2750	8.1			Y-xx,xxH
	SENTRA 2-WHEEL DRIVE WAGON XE						Y-xx,xxJ

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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Issue Date: 02/15/89

Revision Date: 1/05/26/89

\*17.11.00-3

17.11.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET E.O. # A-15-165

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: LNS1.6V5FAC3 Page 3

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

Eng. Type In-line 4,OHC Liter (CID) 1.6 (97.5) Evap. Family TBI-6

Emission Control Sys. (Use SAE Abbrev.) TWC/PAIR/O2S/EGR/TBI

Engine Front X Mid.      Rear      Drive: FWD 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.
BG161CM1	SENTRA 2-DOOR SEDAN E	M5	2500	7.3	Control Unit A11-B31 1/	EGR Valve AEY76-46	Y-xx,xxK
	SENTRA 2-DOOR SEDAN XE						Y-xx,xxL
	SENTRA 4-DOOR SEDAN E		Y-xx,xxH				
	SENTRA 4-DOOR SEDAN XE		Y-xx,xxJ				
			2625				

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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Revision Date: 1/ 05/28/89

\*17.11.00-4

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Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: LNS1.6V5FAC3

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

Eng. Type per: NISSAN MOTOR CO., LTD. Liter (CID) 1.6 (97.5) Evap. Family TBI-6

Emission Control Sys. (Use SAE Abbrev.) TWC/PAIR/O2S/EGR/TBI

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

Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	RLHP or DPA	Ign. System (ECU)	EGR Valve	Catalyst ***
					Part No.	Part No.	Part No.
BG181CM1	SENTRA COUPE XE	M5	2825	8.7	Control Unit A11-B31 1/	EGR Valve AEY76-46	Y-xx,xxK
	-----						Y-xx,xxL
	SENTRA COUPE SE						Y-xx,xxH
	-----						Y-xx,xxJ
	SENTRA 2-WHEEL DRIVE WAGON E			8.1			
	SENTRA 2-WHEEL DRIVE WAGON XE						

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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Issue Date: 02/15/89  
Revision Date: 1/05/28/89

#17.11.00-5

E.O. # A-15-165

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Page 5

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: LNS1.6V5FAC3

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

Eng. Type Un-line 4, OHC Liter (CID) 1.6 (97.5) Evap. Family TBI-6

Emission Control Sys. (Use SAE Abbv.) TWC/PAIR/O2S/EGR/TBI

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

Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	RLHP or DPA	Ign. System (ECU)	EGR Valve	Catalyst ***
					Part No.	Part No.	Part No.
AG16ICA1 -R1	SENTRA 2-DOOR SEDAN E	L3	2625	7.3	Control Unit A11-B73 1/ 2/	EGR Valve AEY76-46	Y-xx,xxK Y-xx,xxL Y-xx,xxH Y-xx,xxJ
	SENTRA 2-DOOR SEDAN XE						
	SENTRA 4-DOOR SEDAN E						
	SENTRA 4-DOOR SEDAN XE						

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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2/ With R/C No. L16V5FAC-01

Issue Date: 02/15/89

Revision Date: 1/ 05/26/89 2/ 12/25/89

\*17.11.00-6

17.11.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET E.O. # A-15-165  
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Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: LNS1.6V5FAC3  
 Passenger Cars X Light-Duty Trucks      Medium-Duty Vehicles      Gas X Diesel       
 Eng.Type In-line 4, OHC Liter (CID) 1.6 (97.5) Evap. Family TBI-6  
 Emission Control Sys. (Use SAE Abbrev.) TWC/PAIR/O2S/EGR/TBI  
 Engine: Front X Mid.      Rear      Drive: FWD X RWD      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.
AG16ICA1 -R1	SENTRA COUPE XE	L3	2750	6.7	Control Unit A11-B73 1/ 2/	EGR Valve AEY76-46	Y-xx,xxK
	SENTRA COUPE SE					Y-xx,xxL	
	SENTRA 2-WHEEL DRIVE WAGON E					Y-xx,xxH	
	SENTRA 2-WHEEL DRIVE WAGON XE					Y-xx,xxJ	

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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2/ With R/C No. L16V5FAC-01

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 Revision Date: 1/ 05/26/89 2/ 12/25/89



\*17.11.00-6

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Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: LNS1.6V5FAC3

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

Eng. Type In-line 4. OHC Liter (CID) 1.6 (97.5) Evap. Family TBI-6

Emission Control Sys. (Use SAE Abbv.) TVC/PAIR/O2S/EGR/TBI

Engine: Front X Mid.      Rear      Drive: FWD X RWD      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 <sup>***</sup> Part No.
AG161CA1	SENTRA COUPE XE	L3	2750	6.7	Control Unit A11-B32 1/	EGR Valve AEY76-48	Y-xx,xxK
							Y-xx,xxL
	SENTRA COUPE SE						Y-xx,xxH
							Y-xx,xxJ
	SENTRA 2-WHEEL DRIVE WAGON E			8.1			
	SENTRA 2-WHEEL DRIVE WAGON XE						

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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