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$^3$)

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:

| 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) |
|---|---|---|
| 0.12 | 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 14th day of June, 1989.

Bob Cross for

K. D. Drachand, Chief
Mobile Source Division

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



Manufacturer: NISSAN MOTOR CO.,LTD. Engine Family: LHS1.6V5FAC3

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 Abbrv.) 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 |
| BG16ICM1 | SENTRA 2-DOOR SEDAN STANDARD | | | | | | |
| AG16ICM1 | SENTRA 2-DOOR SEDAN E | M5 | 2625 | | | | Y-xx,xxL |
| | SENTRA 2-DOOR SEDAN XE | | | | | | Y-xx,xxH |
| | SENTRA 4-DOOR SEDAN E | | | | | | Y-xx,xxJ |
| | 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 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET E.O. # A-15-165



Manufacturer: NISSAN MOTOR CO., LDT. 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 Abbrv.) 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<br>Y-xx,xxL |
| | SENTRA COUPE SE | | | | | | Y-xx,xxH<br>Y-xx,xxJ |
| | SENTRA 2-SHEEL DRIVE WAGON E | | 2750 | 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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Revision Date: 1/ 05/26/89

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



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 Abbrv.) 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. |
|---|---|---|---|---|---|---|---|
| BG16ICM1 | 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<br>Y-xx,xxH |
| | SENTRA 4-DOOR SEDAN E | | | | | | Y-xx,xxJ |
| | SENTRA 4-DOOR SEDAN XE | | 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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Page 4

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

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

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

Emission Control Sys. (Use SAE Abbrv.) 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. |
|---|---|---|---|---|---|---|---|
| BG18ICM1 | SENTRA COUPE XE | M5 | 2625 | 6.7 | Control Unit A11-B31 1/ | EGR Valve AEY76-46 | Y-xx,xxK<br>Y-xx,xxL |
| | SENTRA COUPE SE | | | | | | Y-xx,xxH<br>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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17.11.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET



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 Abbrv.) 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. |
|---|---|---|---|---|---|---|---|
| 2/ AG16ICA1 -R1 | SENTRA 2-DOOR SEDAN E | L3 | 2625 | 7.3 | Control Unit A11-B73 1/ 2/ | 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 |

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

E.O. # A-15-165

17.11.00 1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET



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 Abbrv.) 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. |
|---|---|---|---|---|---|---|---|
| 2/ | SENTRA COUPE XE | | | | | EGR Valve AEY76-46 | Y-xx,xxK |
| | | | | | | | Y-xx,xxL |
| AG16ICA1 -R1 | SENTRA COUPE SE | L3 | | 6.7 | Control Unit A11-B73 1/ 2/ | | Y-xx,xxH |
| | | | | | | | Y-xx,xxJ |
| | SENTRA 2-WHEEL DRIVE WAGON E | | 2750 | | | | |
| | SENTRA 2-WHEEL DRIVE WAGON XE | | | 8.1 | | | |

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.

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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 Abbrv.) 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 | SENTRA COUPE XE | L3 | 2750 | 6.7 | Control Unit A11-B32 1/ | EGR Valve AEY76-48 | Y-xx,xxK<br>Y-xx,xxL<br>Y-xx,xxH<br>Y-xx,xxJ |
| | SENTRA COUPE SE | | | | | | |
| | SENTRA 2-WHEEL DRIVE WAGON E | | | | | | |
| | SENTRA 2-WHEEL DRIVE WAGON XE | | | 8.1 | | | |

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.

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