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## State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-15-122 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 1988 model-year Nissan Motor Co., Ltd. exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

| Engine Family | Displa<br><u>Liters (Cu</u> | cement<br>bic Inches) | Exhaust Emission Control Systems (Special Features)                                                              |
|---------------|-----------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------|
| JNS1.6V5FDC7  | 1.6                         | (97.5)                | Exhaust Gas Recirculation Air Injection - Valve Three-Way Catalyst Heated Oxygen Sensor (Central Fuel Injection) |

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

The following are the emission standards for this engine family:

| Hydrocarbons   | Carbon Monoxide | Nitrogen Oxides |
|----------------|-----------------|-----------------|
| Grams per Mile | Grams per Mile  | Grams per Mile  |
| 0.39           | 7.0             | 0.7             |

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

| Hydrocarbons   | Carbon Monoxide       | Nitrogen Oxides |
|----------------|-----------------------|-----------------|
| Grams per Mile | <u>Grams per Mile</u> | Grams per Mile  |
| 0.18           | 3.1                   | 0.4             |

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

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 Fipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, 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 Administrative Code, 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 regulations (Title 13, California Administrative Code, Section 2035 et seq.) and with Health and Safety Code Section 43204.

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

 $12^{4}$  day of June, 1987.

K. D. Drachand, Chief Mobile Source Division

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Manufacturer: NISSAN MOTOR CO., LTD.

Engine Family: JNS1.6V5FDC7

Evaporative Family: TBI-4

Engine Type: In-line 4, OHC

Liters (CID): 1.6 (97.5)

#### ABBREV IATIONS

#### Ignition System

CA-Centrifugal Advance EEC-Electronic Engine Control AIV-Air Injection-Valve EI-Electronic Ignition ESAC-Electronic Spark Advance EGR-Exhaust Gas Recirculation Control

VA-Vacuum Advance VR-Vacuum Retard

## Fuel System

CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor

#### Exhaust Emission Control System

AIP-Air Injection-Pump DBC-Dual Bed Catalyst EM-Engine Modification OC-Oxidation Catalyst System SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical EIC-Electronic Injection Control TWC-Three-Way Catalyst System ECC-Electronic Control Carburetor EFI-Electronic ECCS-Electronic Concentrated Control System OS-Oxygen Sensor HOS-Heated Oxygen Sensor WUOC-Warm-Up Oxydation Catalyst WUTWC-Warm-Up Three-Way Catalyst

#### Special Features

CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection-Direct DIP-Diesel Injection-Prechamber Fuel Injection IC-Intercooler or aftercooler MFI-Mechanical Fuel Injection TC-Turbocharger OBD-On-Board Diagnostics

## VEHICLE MODELS:

| Engine Code                         | <u> Model</u>                                                                              |       | Transmission   |
|-------------------------------------|--------------------------------------------------------------------------------------------|-------|----------------|
| BE16ICM5SENTRA                      | STANDARD 2-DOOR                                                                            | SEDAN | 4-Speed Manual |
| BE16ICM6SENTRA                      | STANDARD 2-DOOR                                                                            | SEDAN | 5-Speed Manual |
| AE16ICM6   SENTRA BE16ICM6   SENTRA | E 2-DOOR SEDAN<br>XE 2-DOOR SEDAN<br>E 4-DOOR SEDAN<br>XE 4-DOOR SEDAN<br>GXE 4-DOOR SEDAN |       | 5-Speed Manual |

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# VEHICLE MODELS:

| Engine Code                               | Model                                                                                                                                                       | Transmission   |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| AE16ICM6 <sup>-</sup>  <br> <br>BE16ICM6_ | SENTRA E 3-DOOR HATCHBACK     SENTRA XE 3-DOOR HATCHBACK   - SENTRA XE HATCHBACK COUPE     SENTRA SE HATCHBACK COUPE     SENTRA E WAGON     SENTRA XE WAGON | 5-Speed Manual |

Engine: Front X Mid. Rear Rear Drive : FWD X RWD 4WD Full Time 4WD Part Time

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

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: JNS1.6V5FDC7 Liter (CID): 1.6 (97.5) Eng. Type: In-line 4, OHC Emission Control Sys. (Special Features): TBI/EGR/AIV/TWC/CL/ECCS

| Engine<br> Code<br>                  | Tode   Tode   Tode   S<br>  (If Coded see<br>  attachment)<br>  (Dyno Hp)             | Trans.<br> Type               | <br> Equiv.<br> Test<br> Weight<br> | l (ECU)<br>I                                             | <br> Fuel System<br> <br> <br>  Part No.                                  | <b>l</b> . | *** <br>      |
|--------------------------------------|---------------------------------------------------------------------------------------|-------------------------------|-------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------|------------|---------------|
| <br> <br> BE16ICM5<br> <br>          | <br> SENTRA<br> STANDARD<br> 2-DOOR SEDAN<br>  (7.3)                                  |                               | <br>  2500<br>                      |                                                          |                                                                           |            |               |
| <b></b><br> <br> <br> <br> <br> <br> | SENTRA E<br>  2-DOOR SEDAN<br>  (7.3)<br> <br>  SENTRA XE<br>  2-DOOR SEDAN           | <br> <br> <br> <br> <br> <br> | 2500                                | D4P83-03<br> (HITACHI)<br> <br> T4T84471<br> (MITSUBISI) | Air Flow<br>  Meter<br>  A36-000<br> <br>  Control<br>  Unit<br>  A11-A32 | AEY76-46   | Z-xx, x1 <br> |
| <br> <br> AE16 CM6<br> <br> <br>     | (7.3)<br> <br> SENTRA E<br> 4-DOOR SEDAN<br>  (7.3)<br>                               | <br> <br>  M5<br> <br> <br>   | <br>                                | Control<br>  Unit<br> A11-A32<br> <br>                   | <br>  Fuel<br>  Injector<br>  A46-000<br>                                 | <br>       |               |
| 7                                    | SENTRA XE<br> 4-DOOR SEDAN<br>  (7.3)<br> <br> SENTRA GXE<br> 4-DOOR SEDAN<br>  (7.3) | <br> <br> <br> <br> <br>      |                                     |                                                          |                                                                           |            |               |

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.

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

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: JNS1.6V5FDC7 Liter (CID): 1.6 (97.5) Eng. Type: In-line 4, OHC Emission Control Sys. (Special Features): TBI/EGR/AIV/TWC/CL/ECCS

|                |                                                                                                                                                                                                           | 1    |                          |                                                                          |             |                             |                                          |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------|--------------------------------------------------------------------------|-------------|-----------------------------|------------------------------------------|
| Engine<br>Code | Vehicle Models<br>(If Coded see<br>attachment)<br>(Dyno Hp)                                                                                                                                               | Гуре | Equiv.<br>Test<br>Weight | (ECU)                                                                    | Fuel System | <b> </b><br>                |                                          |
| AE16 ICM6      | SENTRA E<br> 3-DOOR<br> HATCHBACK<br>  (7.8)<br> <br> SENTRA XE<br> 3-DOOR<br> HATCHBACK<br>  (7.8)<br> <br> SENTRA XE<br> HATCHBACK<br> COUPE (6.7)<br> <br> SENTRA SE<br> HATCHBACK<br> COUPE (6.7)<br> | M5   | 2625                     | Distributor D4P83-03 (HITACHI) T4T84471 (MITSUBISI) Control Unit A11-A32 |             | <br> EGR Valve<br> AEY76-46 | Z-xx, x1<br>Z-xx, x2<br>xx, xP<br>xx, xQ |

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

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: JNS1.6V5FDC7 Liter (CID): 1.6 (97.5) Eng. Type: In-line 4, OHC Emission Control Sys. (Special Features): TBI/EGR/AIV/TWC/CL/ECCS

| Code<br> | <br> Vehicle Models<br> (If Coded see<br>  attachment)<br> (Dyno Hp) | Туре | <br> Equiv.<br> Test<br> Veight | l (ECU)<br>l                                                                                                    | Fuel System | <b> </b><br>      | <b>**</b> *                                   |
|----------|----------------------------------------------------------------------|------|---------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------|-------------------|-----------------------------------------------|
|          | SENTRA   STANDARD   2-DOOR SEDAN   (7.3)                             | <br> | <u> </u><br>                    | <br>  Distributor<br> D4P83-03<br>  (HITACHI)<br>  T4T84471<br>  (MITSUBISI)<br>  Control<br>  Unit<br> A11-A32 |             | AEY76-46<br> <br> | Z-xx, x1<br> Z-xx, x2<br>  xx, xP<br>  xx, xQ |

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

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| Engine<br> Code          | <br> Vehicle Models<br> (If Coded see<br>  attachment)<br> (Dyno Hp)                                                                                                                                                    | Туре | <br> Equiv.<br> Test<br> Weight<br> | (ECU)    | Fuel System Part No.                                             | <u> </u>                                    | ***                                            |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------|----------|------------------------------------------------------------------|---------------------------------------------|------------------------------------------------|
| <br> <br> <br> BE16 ICM6 | SENTRA E   3-DOOR   HATCHBACK   (7.8)     SENTRA XE   3-DOOR   HATCHBACK   (7.8)     SENTRA XE   HATCHBACK   COUPE (6.7)     SENTRA SE   HATCHBACK   COUPE (6.7)     SENTRA E WAGON   (8.1)     SENTRA XE   WAGON (8.1) | <br> |                                     | D4P83-03 | Air Flow   Meter   A36-000   Unit   A11-A32   Injector   A46-000 | AEY76-46<br> <br> -<br> -<br> -<br> -<br> - | Z-xx, x1<br>  Z-xx, x2<br>  xx, xP<br>  xx, xQ |

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