State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-154
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 1989 model-year Nissan Motor Co., Ltd. exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

| Engine Family | Displacement Liters | (Cubic Inches) | Exhaust Emission Control Systems (Special Features) |
|---|---|---|---|
| KNS3.0T5HAC0 | 3.0 | (180.6) | Air Injection - Valve<br>Exhaust Gas Recirculation<br>Dual Bed Catalyst<br>Heated Oxygen Sensor<br>On-Board Diagnostics (Exempted)<br>(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:

| Loaded Vehicle Weight(lbs.) | Hydrocarbons (Grams per Mile) | Carbon Monoxide (Grams per Mile) | Nitrogen Oxides (Grams per Mile) |
|---|---|---|---|
| 0 - 3750 | 0.39 | 9.0 | 1.0 |

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

| Loaded Vehicle Weight(lbs.) | Hydrocarbons (Grams per Mile) | Carbon Monoxide (Grams per Mile) | Nitrogen Oxides (Grams per Mile) |
|---|---|---|---|
| 0 - 3750 | 0.24 | 2.5 | 0.6 |

BE IT FURTHER RESOLVED: That the listed models in the 0-3750 lbs. loaded vehicle weight class are 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 vehicle manufacturer is certifying the listed models in the 0-3750 lbs. loaded vehicle weight class to the optional NOx standard by providing evidence that there are sufficie$$ projected sales of vehicles certifying to the primary NOx emission standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

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 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 for the listed vehicle models in the 0-3750 lbs. loaded vehicle weight class with the 2 year/24,000 mile warranty provisions of 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 24th day of August, 1988.

K. D. Drachand, Chief
Mobile Source Division

E.O. # A-15-154

17.12.00 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET



Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS3.0T5HAC0

Evaporative Family: TBI-3 Engine Type: V-6, OHC

Liters (CID): 3.0 (180.6)

ABBREVIATIONS

**Ignition System**

CA-Centrifugal Advance
ECU-Electronic Control Unit
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

**Fuel System**

CFI, SFI, HOS, OS, DIP, EPFI, MPFI, DID
nV-nVenturi Carburetor
VV-Variable Venturi Carburetor

**Exhaust Emission Control System**

AIP-Air Injection-Pump
AIV-Air Injection-Valve
DBC-Dual Bed Catalyst
EGR-Exhaust Gas Recirculation
OS-Oxygen Sensor
HOS-Heated Oxygen Sensor
EM-Engine Modification
OC-Oxidation Catalyst
SPL-Smoke Puff Limiter or Throttle Delay
TOC-Trap Oxidizer, Continual
TOP-Trap Oxidizer, Periodical
EIC-Electronic Injection Control (Diesel Only)
TWC-Three-Way Catalyst
WUOC-Warm-Up Oxidation 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
IC-Intercooler or Aftercooler
EPFI-Electronic Port Fuel Injection
MPFI-Mechanical Port Fuel Injection
SFI-Sequential Fuel Injection
TC-Turbocharger
SC-Supercharger
OBD-On-Board Diagnostics

VEHICLE MODEL:

| Engine Code | Model | Transmission |
|---|---|---|
| AV30ICM1 | NISSAN SE V6 REGULAR BED | 5-speed Manual |
| | NISSAN SE V6 KING CAB | |
| BV30ICM1 | NISSAN HEAVY DUTY | |

Engine: Front X Mid. ____ Rear ____

Drive : FWD ____ RWD X 4WD Full Time ____ 4WD Part Time ____

Issue Date: 05/11/88
Revision Date:

E.O. # A-15-154

17.12.00 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET



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

Manufacturer: NISSAN MOTOR CO., LTD. Engine Family: KNS3.0T5HAC0
Liter (CID): 3.0 (180.6) Eng. Type: V-6, OHC
Emission Control Sys. (Special Features): AIV/DBC/EGR/HOS(CFI/OBD)

| Engine Code | Vehicle Models (If Coded see attachment) (Dyno Hp) | Trans. Type | Equiv. Test Weight | Ign. System (ECU) Part No. | Fuel System Part No. | EGR Valve Part No | Catalyst *** Part No. |
|---|---|---|---|---|---|---|---|
| AV30ICM1 | SE V6 REGULAR BED (12.2) | M5 | 3500 | Distributor D6P84-01 (HITACHI) | Control Unit MECS-G425 | EGR Valve AEY77-6 | D-xx,xJ |
| | SE V6 KING CAB (11.2) | | 3625 | T5T61372 (MITSUBISI) | Air Flow Meter and Fuel Injector (SPI Body Assy) | | D-xx,xK |
| | HEAVY DUTY (13.5) | | 3500 | Control Unit MECS-G425 | | | D-xx,xE |
| BV30ICM1 | SE V6 REGULAR BED (12.2) | | 3500 | | RGA50-31 (without ASCD) | | D-xx,xF |
| | SE V6 KING CAB (11.2) | | 3625 | | RGA50-33 (with ASCD) | | |
| | HEAVY DUTY (13.5) | | 3500 | | | | |

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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ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
ECU-Electronic Control Unit
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ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Fuel System

CFI, SFI, HOS, OS,
DIP, EPFI, MPFI, DID
nV-nVenturi Carburetor
VV-Variable Venturi Carburetor

Exhaust Emission Control System

AIP-Air Injection-Pump
AIV-Air Injection-Valve
DBC-Dual Bed Catalyst
EGR-Exhaust Gas Recirculation
OS-Oxygen Sensor
HOS-Heated Oxygen Sensor
EM-Engine Modification
OC-Oxidation Catalyst
SPL-Smoke Puff Limiter or Throttle Delay
TOC-Trap Oxidizer, Continual
TOP-Trap Oxidizer, Periodical
EIC-Electronic Injection Control (Diesel Only)
TWC-Three-Way Catalyst
WUOC-Warm-Up Oxidation 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
IC-Intercooler or Aftercooler
EPFI-Electronic Port Fuel Injection
MPFI-Mechanical Port Fuel Injection
SFI-Sequential Fuel Injection
TC-Turbocharger
SC-Supercharger
OBD-On-Board Diagnostics

VEHICLE MODEL:

| Engine Code | Model | Transmission |
|---|---|---|
| AV30ICA1 | NISSAN SE V6 REGULAR BED | Automatic |
| | NISSAN SE V6 KING CAB | |
| BV30ICA1 | NISSAN HEAVY DUTY | |

Engine: Front X Mid. ____ Rear ____

Drive : FWD ____ RWD X 4WD Full Time ____ 4WD Part Time ____

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Emission Control Sys. (Special Features): AIV/DBC/EGR/HOS(CFI/OBD)

| Engine Code | Vehicle Models (If Coded see attachment) (Dyno Hp) | Trans. Type | Equiv. Test Weight | Ign. System (ECU) Part No. | Fuel System Part No. | EGR Valve Part No | Catalyst *** Part No. |
|---|---|---|---|---|---|---|---|
| AV30ICA1 | SE V6 REGULAR BED (12.2) | L4 | 3500 | Distributor D6P84-01 (HITACHI) | Control Unit MECS-G435 | EGR Valve AEY77-7 | D-xx,xJ |
| | SE V6 KING CAB (11.2) | | 3625 | T5T61372 (MITSUBISI) | Air Flow Meter and Fuel Injector (SPI Body Assy) | | D-xx,xK |
| | HEAVY DUTY (13.5) | | 3500 | Control Unit MECS-G435 | | | D-xx,xE |
| BV30ICA1 | SE V6 REGULAR BED (12.2) | | 3500 | | RGA50-32 (without ASCD) | | D-xx,xF |
| | SE V6 KING CAB (11.2) | | 3625 | | RGA50-34 (with ASCD) | | |
| | HEAVY DUTY (13.5) | | 3500 | | | | |

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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