

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-266-7
Relating to Certification of New Motor Vehicles

NEW UNITED MOTORS MANUFACTURING, INC.

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 New United Motors Manufacturing, Inc. exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

| <u>Engine Family</u> | <u>Displacement</u> <u>Liters (Cubic Inches)</u> | | <u>Exhaust Emission Control Systems</u> <u>(Special Features)</u> |
|----------------------|-----------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| KNT1.6V5FCE6 | 1.6 | (96.8) | Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst (Electronic Port Fuel Injection) (On-Board Diagnostics) |

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

The following are the 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 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> |
|------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| 0.15 | 1.1 | 0.2 |

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 also comply with 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.).

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 2nd day of November, 1988.


K. D. Drachand, Chief
Mobile Source Division

Manufacturer NUMMI Engine Family KNT1.6V5FCE6
 Evaporative Family EV-E Engine type 4 cyl. in-line
 Liters (CID) 1.6 (96.8)

ABBREVIATIONS

Ignition System

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

Exhaust Emissions Control System

AIP-Air Injection - Pump
 AIV-Air Injection - Valve
 EGR-Exhaust Gas Recirculation
 EIC-Electronic Injection Control (Diesel Only)
 EM-Engine Modification
 SPL-Smoke Puff Limiter or Throttle Delay
 TOC-Trap Oxidizer, Continual
 TOP-Trap Oxidizer, Periodical
 DBC-Dual Bed Catalyst
 OC-Oxidation Catalyst
 TWC-Three-Way Catalyst
 WUOC-Warm-up Oxidation Catalyst
 WUTWC-Warm-up Three-Way Catalyst
 OS-Oxygen Sensor
 HOS-Heated Oxygen Sensor

Special Features

CFI-Central Fuel Injection or Throttle Body Injection
 EPFI-Electronic Port Fuel Injection
 MPFI-Mechanical Port Fuel injection
 SFI-Sequential Fuel Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 TC-Turbocharger
 SC-Supercharger
 IC-Intercooler or Aftercooler
 CCV-Combustion Chamber Valve
 OBD-On-Board Diagnostics

Fuel System

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

VEHICLE MODELS :

Prizm

| | |
|--------------|--------------|
| AE92L-BEMDKA | AE92L-BLMDKA |
| -BEMNKA | -BLMNKA |
| -BEHDKA | -BLHDKA |
| -BEHNKA | -BLHNKA |

Engine: Front x Mid. Rear
 Drive: FWD x RWD 4WD Full time 4WD Part time

17.11.00

E.O. # A-266-7

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 2Passenger Cars Light-Duty Trucks Medium-Duty Vehicles Gas Diesel Manufacturer NUMMI Engine family KNT1.6V5FCE6Liter (CID) 1.6 (96.8) Eng. Type 4 cyl. in-lineEmission Control Sys. (Special Features) EGR + OS + TWC (EFI, OBD)

| Engine code | Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00) | Trans. Type | Equiv. Test Weight | Ign. System ECU, EI, ESAC Part No. [Computer] | Fuel System EFI, CL Part No. [Computer] [Pressure-Sensor] [Injector] | EGR Valve Part No. | Catalyst Part No. |
|-------------|--------------------------------------------------------------------------|-------------|--------------------|-----------------------------------------------|----------------------------------------------------------------------|--------------------|------------------------|
| 1 thru 4 | AE92L-BEMDKA -BEMNKA -BLMDKA -BLMKA | M5 | 2,625 2,750 | 89661-12360 | 89661-12360 89420-12010 23250-16100 | 25620-16120 | 18450-16400 (B05)*1 |
| 5 thru 8 | AE92L-BEHDKA -BEHNKA -BLHDKA -BLHNKA | A3 | 2,625 2,750 | | | 25620-16130 | |

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.

Note *1 : Parenthetical information represents identifying marks found on production parts

17.11.00

E.O. # A-266-7

1989 MODEL-YEAR CERTIFICATION REVIEW SHEET
EXHAUST/EVAPORATIVE SYSTEM & FILL SPECIFICATION COMPLIANCE (1/2)

Mfr. NUMMI Engine Family KNT1.6V5FCE6

PC LDT MDV Gas Diesel LPG Cert. Type - CA 49S 50S

CID 96.8 Liters 1.6 Rated HP 102 @ 5,800 RPM Rated Torque 101 @ 4,800 RPM

Type Cert - 50K 100K Evaporative Family EV-E Eng. Type 4 cyl. in-line

Exhaust Control Sys. and (Special Features) EGR + OS + TWC (EFI, OBD)

| | Section/Page |
|------------------------------------------------------------|------------------------------------------------|
| 1 Authorized Representative | <u>01.02.02</u> |
| 2 Fuel, Test Equipment Procedures & Route | <u>03.00.00, 04.00.00, 05.00.00</u> |
| 3 Warr. State & Parts List | <u>17.10.00, 19.03.00, 20.02.11</u> |
| 4 Maint: Cert/Req'd/Recm'd | <u>06.00.00</u> |
| 5 Tune-Up Lab./Vac. Hose Diag. | <u>07.00.00, 17.06.00</u> |
| 6 Evap. Control System | <u>19.00.00</u> |
| 7 Engine Parameters | <u>20.01.00</u> |
| 8 Fuel/Ignition Systems | <u>08.01.01.01, 08.02.01.00</u> |
| 9 Exhaust Control System | <u>20.02.00</u> |
| 10 Projected Sales | <u>17.13.00</u> ✓ |
| 11 Vehicle Descript. | <u>20.02.08</u> |
| 12 Test Veh. Information | |
| C/O MY or C/A EF | <u>89MY</u> <u>89MY</u> |
| Zero Mile Books | <u>89-D3 *1</u> <u>89-AE6*1 & 89-AE7*1</u> |
| Vehicle Logs | <u>89-D3 *1</u> <u>89-AE6*1 & 89-AE7*1</u> |
| Maint. Logs & Engr. Eval. | <u>89-D3 *1</u> ✓ <u>N/A</u> |
| 13 Evap. Bench Test Procedure | <u>13.02.00</u> |
| 14 Gen. Std., Increase in Em., Safety, Mtg. All Req'ments. | <u>17.01.01</u> |
| 15 Prod. Veh. Same as Test Veh. | <u>17.01.01</u> |
| 16 Label Durability | <u>17.06.00</u> |
| 17 Driveability | <u>17.01.02</u> |
| 18 Fill Pipe Specs. | <u>17.04.02</u> ✓ |
| 19 Altitude A/F Req'ment | <u>17.02.00</u> |
| 20 Tamperproof Req'ment | <u>17.03.00</u> |
| 21 CK for DF. Outlier, Line Xing | <u>Checked</u> |
| 22 EPA Certificate | <u>CA OK</u> |
| 23 Two yr./24K Warranty | <u>Not Applicable</u> |
| 24 Alcohol Compatible | <u>See Owner's Manual</u> |
| 25 Cert. Preview Program | <u>Already submitted</u> |
| 26 OBD system | <u>17.05.00</u> ✓ |
| 27 OBD Extension | <u>Not Applicable</u> ✓ |

PROJECTED EMISSIONS(1)

| Veh. ID | Code (Displ) | Trans | Axle Ratio | ETW | RLHP | MPG City/Hwy | Test Loc. | NMHC | CO | NOx | Hwy | | Evap | Part |
|----------------|-----------------|-------|---------------|-------|------|----------------------|--------------|-----------|-----------|------------|----------------|----------|------|------|
| | | | | | | | | | | | NOx | NOx | | |
| 89-AE6 (00) | 4 | M5 | 3.72 | 2,750 | 7.6 | 30.2/42.6 | EPA | 0.14 | 1.1 | 0.15 | 0.049 | - | - | |
| 89-AE7 (00) | 8 | A3 | 3.53 | 2,750 | 7.6 | 27.8/38.0 - /37.4 | EPA EPA | 0.15 - | 0.81 - | 0.074 - | 0.005 0.010 | 0.4 - | - | |

(1) The emission data vehicle/s above comply with standards of _____ and includes deterioration factors of _____

| | | | | | |
|-------|-------|-------|-------|-------|---|
| 0.39 | 7.0 | 0.4 | 0.5 | 2.0 | - |
| 1.144 | 1.000 | 1.000 | 1.000 | 0.000 | - |

Evaporative DF is the average of Vehicle DF 89-D3 and Bench DF 83-BV-30

(2) Trap Oxidizer :Yes No ; Continual Periodic

Remarks *1 See 20.03.04 and 20.03.05

Application Karl Sime Date 9-28-88
 Processed by Karl Sime Date 9-28-88 Reviewed by RJ Kennedy Date 9/28/88