

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-181
Relating to Certification of New Motor Vehicles

CHRYSLER MOTORS CORPORATION

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 Chrysler Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

| <u>Engine Family</u> | <u>Displacement Liters (Cubic Inches)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|---|
| KCR3.9T5HFK7 | 3.9 (239) | Air Injection - Pump Three-Way Catalyst Heated Oxygen Sensor Exhaust Gas Recirculation (Central 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>Loaded Vehicle Weight(lbs.)</u> | <u>Hydrocarbons (Grams per Mile)</u> | <u>Carbon Monoxide (Grams per Mile)</u> | <u>Nitrogen Oxides (Grams per Mile)</u> |
|--|--|---|---|
| 0 - 3750 | 0.39 | 9.0 | 1.0 |
| 3751 - 5750 | 0.50 | 9.0 | 1.0 |

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

| <u>Loaded Vehicle Weight(lbs.)</u> | <u>Hydrocarbons (Grams per Mile)</u> | <u>Carbon Monoxide (Grams per Mile)</u> | <u>Nitrogen Oxides (Grams per Mile)</u> |
|--|--|---|---|
| 0 - 3750 | 0.13 | 1.2 | 0.6 |
| 3751 - 5750 | 0.14 | 1.3 | 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 sufficient 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 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.) 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.


CHRYSLER MOTORS CORPORATION

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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 18th day of January, 1988.


K. D. Drachand, Chief
Mobile Source Division

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family KCR3.9T5HFK7
 Evaporative Family KCRTD Engine Type OHV V/6
 Liters (CID) 3.9 (239)

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
 DBC-Dual Bed Catalyst
 EGR-Exhaust Gas Recirculation
 EIC-Electronic Injection Control
 EM-Engine Modification
 OC-Oxidation Catalyst
 OS-Oxygen Sensor
 HOS-Heated Oxygen Sensor
 SPL-Smoke Puff Limiter or Throttle Delay
 TOC-Trap Oxidizer, Continual
 TOP-Trap Oxidizer, Periodical
 TWC-Three-Way Catalyst
 WUOC-Warm-Up Oxidation Catalyst
 WUTWC-Warm-Up Three-Way Catalyt

Special Features

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

Fuel System

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

VEHICLE MODELS:

D1E61,D1E62,
 D1L61,D1L62
 D2L62
 B1E51,B1L51,
 B1L52,B2L52
 B1L11,B1L12,B1E11*,
 B2L11,B2L12,B1E12*
 B2L13
 N1L31,N1L61,
 N1L62,N1S61
 N5L61,N5L62,
 5S61

CARLINE:

DODGE D100/D150 PICKUP 2WD

 DODGE D250 PICKUP 2WD
 DODGE B150/B250 WAGON 2WD

 DODGE B150/B250 VAN 2WD

 DODGE DAKOTA 2WD

 DODGE DAKOTA 4WD

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

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

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family KCR3.9T5HFK7

Liter (CID) 3.9 (239) Eng. Type OHV V/6

Emission Control Sys. (Special Features) AIP,EGR,TWC,HOS,(CFI-EL),(OBD)

| Engine Code | Vehicle Models (If Coded see attachment) (Dyno Hp) | Trans. Type | Equiv. Test Weight | Ign. System (ECU) Part No. | Fuel System THROTTLE BODY Part No. | EGR Valve Part No. | Catalys Part No. |
|-------------|--|-------------|----------------------|-----------------------------------|--|---------------------------|--|
| M-1 | N1L31,N5L61 N5L62,N5S61 | M5 | 4000 4250 | 4379774 | 4307605 4458605 | 4287155 | 4218398 4218402 |
| M-2 | B1L11,B1L12,B1E11* B2L11,B2L12,B1E12* B2L13 B1E51,B1L51, B1L52,B2L52 | | 4250 4500 4750 | 4379764 | | 4287152 | 4218410 4218411 4218499 4218631 |
| M-3 | D1E61,D1L61 D1E62,D1L62 | | 3875 4000 | 4379770 | | | |
| A-1 | N1L61,N1L62, N1S61 N1L31 N5L61,N5L62, N5S61 N1L61+ | | A40D | 3750 4000 4250 3625 | | 4379760 | 4287156 |

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.

of Issue _____ Revisions: *02-15-88: R.C. 18TC - Addition of models.

Passenger Cars _____ Light-Duty Trucks x Medium-Duty Vehicles x Gas x Diesel _____

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family KCR3.9T5HFK7

Liter (CID) 3.9 (239) Eng. Type OHV V/6

Emission Control Sys. (Special Features) AIP,EGR,TWC,HOS,(CFI-EL),(OBD)

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|-------------|--|-------------|--|-----------------------------------|--|---------------------------|--|
| A-2 | D1E61,D1L61, D1E62,D1L62 B1L11,B1L12,B1E11* B2L11,B2L12,B1E12* B2L13 B1E51,B1L51, B1L52,B2L52 | A40D | 4000 <hr/> 4250 <hr/> 4500 <hr/> 4750 | 4379756 | 4307605 4458605 | 4287153 | 4218398 4218402 4218410 4218411 4218499 4218631 |
| A-3 | D1L61 D1E61,D1E62, D1L62 B1L11,B1L12,B1E11* B2L11,B2L12,B1E12* B2L13,D2L62 B1E51,B1L51, B1L52,B2L52 | A-3 | 3875 <hr/> 4000 <hr/> 4250 <hr/> 4500 <hr/> 4750 | 4379754 | | | |

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.

Date of Issue _____ Revisions: *02-15-88: R.C. 18TC - Addition of models.

CHRYSLER MOTORS CORPORATION

1989 CALIFORNIA 3.9L MDV & LDT
KCR3.9T5HFK7 & KCR3.9T5HFM9 Families
Test Weight & H.P.

EQ. No. A-9-181

| <u>Model</u> | <u>Transmission</u> | <u>Test Wt.</u> | <u>Available Tires*</u> | <u>Tire Sales Code</u> | <u>Coastdown HP</u> | |
|-------------------------|------------------------------|----------------------|-------------------------|------------------------|---------------------|-------------|
| | | | | | <u>GDYR</u> | <u>MICH</u> |
| N1L31 | M5, A40D | 4000 | P195/75R15 | TNC | 12.4 | - |
| | | | P205/75R15 | TPF, TPG | 12.4 | 12.4 |
| | | | P215/75R15 | TME | 12.4 | - |
| | | | LT215/75R15D | TMK | - | 11.7 |
| N5L61 N5L62 | M5 | 4000 | P195/75R15 | TNC | 14.3 | - |
| | | | P205/75R15 | TPF, TPG | 14.9 | 14.8 |
| | | | P235/75R15XL | TSC | 14.9 | 14.8 |
| | | | P235/75R15XL | TSC, TSG, M&S | 15.7 | 15.0 |
| N5S61 | M5, A40D | 4250 | P235/75R15XL | TSG, M&S | 17.4 | 16.6 |
| N1L61 N1S61 N1L62 | A40D A40D, M5 A40D, M5 | 3750 3750 3750 | P195/75R15 | TNC | 12.4 | - |
| | | | P205/75R15 | TPF, TPG | 12.4 | 12.5 |
| | | | P215/75R15 | TME | 12.4 | - |
| | | | LT215/75R15D | TMK | - | 11.9 |
| N5L61 | A40D | 4250 | P195/75R15 | TNC | 14.5 | - |
| | | | P205/75R15 | TPF, TPG | 15.1 | 14.9 |
| | | | P235/75R15XL | TSC | 15.1 | 14.9 |
| | | | P235/75R15XL | TSC, TSG, M&S | 15.7 | 15.1 |
| N1L61 | M5 | 3625 | P195/75R15 | TNC | 12.4 | - |
| | | | P205/75R15 | TPF, TPG | 12.4 | 12.5 |
| | | | P215/75R15 | TME | 12.4 | - |
| | | | LT215/75R15D | TMK | - | 11.8 |
| N1C61 | M5, A40D | 4500 | LT215/75R15D | TMK | 26.0 | 26.0 |
| N1C62 | M5, A40D | 4500 | | | | |

GDYR = Goodyear
MICH = Michelin
M&S = Mud & Snow
NIC = Cab Chassis

*Following tires are available for each model listed in column one.

ISSUE DATE: 11-17-87
REV:

CHRYSLER MOTORS CORPORATION

1989 CALIFORNIA 3.9L MDV & LDT
KCR3.9T5HFK7 & KCR3.9T5HFM9 Families (cont'd.)
Test Weight & H.P.

E.O. No. A-9-181

| <u>Model</u> | <u>Transmission</u> | <u>Test Wt.</u> | <u>Available Tires*</u> | <u>Tire Sales Code</u> | <u>Coastdown HP</u> | |
|--------------|---------------------|-----------------|-------------------------|------------------------|---------------------|-------------|
| | | | | | <u>GDYR</u> | <u>MICH</u> |
| D1E61 | M5 | 3875 | P195/75R15 | TNC | 15.3 | - |
| D1L61 | M5, A3 | 3875 | P205/75R15 | TPF, TPG | 15.3 | 15.2 |
| D1E62 | M5, A40D, A3 | 4000 | P235/75R15 | TSC, TSD, TSF | 15.3 | 15.2 |
| D1L62 | M5, A40D, A3 | 4000 | P205/75R15 | TPF, M&S | 14.8 | 14.4 |
| D1E61 | A40D, A3 | 4000 | P235/75R15XL | TSC, M&S | 14.8 | 14.4 |
| D1L61 | A40D | 4000 | | | | |
| D2L62 | A3 | 4500 | LT215/85R16C | TVF | 16.4 | 15.9 |
| | | | LT215/85R16D | TVG | 16.4 | 15.9 |
| | | | LT235/85R16E | TWV | 16.4 | 15.9 |
| | | | 7.50x16D | TVB, TVC | 17.2 | - |
| | | | 7.50x16D | TVB, TVC, M&S | 17.2 | - |
| | | | LT215/85R16D | TVD, M&S | 16.1 | 15.9 |
| | | | LT235/85R16E | TWM, M&S | 16.1 | 16.4 |
| B1L11 | M5, A40D, A3 | 4250 | P195/75R15 | TNC | 15.8 | - |
| B2L11 | M5, A40D, A3 | 4250 | P205/75R15 | TPF, TPG | 15.8 | 15.0 |
| B1L12 | M5, A40D, A3 | 4250 | P225/75R15 | TRE, TRF | 15.8 | - |
| B2L12 | M5, A40D, A3 | 4250 | P235/75R15XL | TSC, TSD, TSF | 15.8 | 15.0 |
| B1E11 | M5, A40D, A3 | 4250 | | | | |
| B1E12 | M5, A40D, A3 | 4250 | | | | |
| B2L13 | M5 | 4500 | P205/75R15 | TPF, TPG | 15.5 | 14.6 |
| | | | P225/75R15 | TRE, TRF | 15.5 | - |
| | | | P235/75R15XL | TSC, TSD, TSF | 15.5 | 14.6 |
| B1E51 | M5, A40D, A3 | 4750 | P205/75R15 | TPF, TPG | 17.0 | 16.1 |
| B1L51 | M5, A40D, A3 | 4750 | P225/75R15 | TRE, TRF | 17.0 | - |
| B1L52 | M5, A40D, A3 | 4750 | P235/75R15XL | TSC, TSD, TSF | 17.0 | 16.1 |
| B2L52 | M5, A40D, A3 | 4750 | | | | |
| B2L13 | A40D, A3 | 4500 | P205/75R15 | TPF, TPG | 16.0 | 15.2 |
| | | | P225/75R15 | TRE, TRF | 16.0 | - |
| | | | P235/75R15XL | TSC, TSD, TSF | 16.0 | 15.2 |

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