State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-179
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 passenger cars:

| Engine Family | Displacement Liters (Cubic Inches) | | Exhaust Emission Control Systems (Special Features) |
|---|---|---|---|
| KCR2.5V5FCX0 | 2.5 | (152) | Exhaust Gas Recirculation<br>Three-Way Catalyst<br>Heated Oxygen Sensor<br>(Electronic Port Fuel Injection)<br>(On-Board Diagnostics)<br>(Turbocharger) |

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 (Grams per Mile) | Carbon Monoxide (Grams per Mile) | Nitrogen Oxides (Grams per Mile) |
|---|---|---|
| 0.39 | 7.0 | 0.4 |

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

| Hydrocarbons (Grams per Mile) | Carbon Monoxide (Grams per Mile) | Nitrogen Oxides (Grams per Mile) |
|---|---|---|
| 0.16 | 4.4 | 0.1 |

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 23rd day of December, 1987.

K. D. Drachand, Chief
Mobile Source Division

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# 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET



Manufacturer CHRYSLER MOTORS CORPORATION Engine Family KCR2.5V5FCXO

Evaporative Family KCRVA Engine Type SOHC 4

Liters (CID) 2.5 (152)

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

### 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

| VEHICLE MODELS: | CARLINE: |
|---|---|
| JCH21,JCP21 | Chrysler LeBaron |
| HCH44,HCP44,HCX44 | Chrysler LeBaron GTS |
| JCH27,JCP27 | Chrysler LeBaron Convertible |
| ADH41,ADP41,ADX41 | Dodge Spirit |
| EEH41,EEM41 | Dodge 600 |
| GVL24,GVS24,GVX24 | Dodge Daytona |
| HDH44,HDS44,HDX44 | Dodge Lancer |
| PDH24,PDH44 | Dodge Shadow |
| PDH27 | Dodge Shadow Convertible |
| EJH41,EJM41 | Plymouth Caravelle |
| PJH44,PPH44 | Plymouth Sundance |
| PJH27 | Plymouth Sundance Convertible |

(continued)

Engine: Front XX Mid. _____ Rear _____

Drive: FWD XX RWD _____ 4WD Full Time _____ 4WD Part Time _____

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ATTACHMENT TO SDS
PAGE 1, EXECUTIVE ORDER A-9-179

| VEHICLE MODELS: | CARLINE: |
| --- | --- |
| APH41,APP41 | Plymouth Acclaim |

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

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family KCR2.5V5FCXO

Liter (CID) 2.5 (152) Eng. Type SOHC 4

Emission Control Sys. (Special Features) TWC,HOS,EGR,(OBD),(EPFI),(TC)

| 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. | Catalyst Part No. |
|---|---|---|---|---|---|---|---|
| M-1 | PPH24 | M5 | 3000 | 5234120<br>5234122 | 4307624 | 4287163 | 4427038<br>4427039<br>4427040<br>4427041 |
| | PPH24,PPH44,<br>PDH44,GVL24,<br>HDH44,HDS44,<br>APH41,ADH41,<br>APP41 | | 3125 | | | | |
| | PPH27,PDH27,<br>JCH21,GVS24,<br>HCH44,HCP44,<br>ADP41,ADX41 | | 3250 | | | | |
| | JCH27 | | 3375 | | | | |
| A-1 | PPH24,PDH24,<br>PPH44,PDH44,<br>EJM41,EEM41,<br>EJH41,EEH41 | A3 | 3125 | 5234112<br>5234114 | 4307620 | 4287162 | |
| | PPH27,PDH27,<br>GVL24,HDH44,<br>HCH44,HCP44,<br>HDS44,HDX44,<br>HCX44 | | 3250 | | | | |
| | JCH21,JCP21,<br>GVS24,GVX24 | | 3375 | | | | |
| | JCH27,JCP27 | | 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.

Date of Issue _____ Revisions:

030186

ECBook

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

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family KCR2.5V5FCXO

Liter (CID) 2.5 (152) Eng. Type SOHC 4

Emission Control Sys. (Special Features) TWC,HOS,EGR,(OBD),(EPFI),(TC)

| 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. | Catalyst Part No. |
|---|---|---|---|---|---|---|---|
| *A-2 | PPH24,PDH24, PPH44,PDH44, EJM41,EEM41, EJH41,EEH41 | A3 | 3125 | 5234414 5234416 | 4307620 | 4287162 | 4427038 4427039 4427040 4427041 |
| | PPH27,PDH27, GVL24,HDH44, HCH44,HCP44, HDS44,HDX44, HCX44 | | 3250 | | | | |
| | JCH21,JCP21, GVS24,GVX24 | | 3375 | | | | |
| | JCH27,JCP27 | | 3500 | | | | |
| M-2** | PPH24 | M5 | 3000 | 5234346 5234348 | 4307624 | 4287163 | |
| | PPH24,PPH44, PDH44,GVL24, HDH44,HDS44, APH41,ADH41, APP41 | | 3125 | | | | |
| | PPH27,PDH27, JCH21,GVS24, HCH44,HCP44, ADP41,ADX41 | | 3250 | | | | |
| | JCH27 | | 3375 | | | | |

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 Dec. 23, 1987

Revisions: *01-25-88: R.C. #2C - Revise detonation sensing circuit in the ECU.
**01-28-88: R.C. #3C - Revise ECU calibration.

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

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family KCR2.5V5FCXO

Liter (CID) 2.5 (152) Eng. Type SOHC 4

Emission Control Sys. (Special Features) TWC,HOS,EGR,(OBD),(MPFI),(TC)

| 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. | Catalyst Part No. |
|---|---|---|---|---|---|---|---|
| M-3 | PPH24 | M5 | 3000 | 4234543<br>4234545 | 4307624 | 4287163 | 4427038<br>4427039<br>4427040<br>4427041 |
| | PPH24,PPH44, PDH44,GVL24, HDH44,HDS44, APH41,ADH41, APP41 | | 3125 | | | | |
| | PPH27,PDH27, JCH21,GVS24, HCH44,HCP44, ADP41,ADX41 | | 3250 | | | | |
| | JCH27 | | 3375 | | | | |

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 04-18-88 Revisions:

R #15C. Revise ECU Calibration.

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