

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-187  
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 emission control systems are certified as described below for gasoline-powered passenger cars:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
KCR2.5V5FBE7	2.2/2.5 (135/152)	Exhaust Gas Recirculation Heated Oxygen Sensor Three-Way Catalyst (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>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0.39	7.0	0.7

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

<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0.26	5.6	0.3

BE IT FURTHER RESOLVED: That the listed models 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 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 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 16<sup>th</sup> day of February, 1988.

  
K. D. Drachand, Chief  
Mobile Source Division

**Manufacturer** CHRYSLER MOTORS CORPORATION      **Engine Family** KCR2.5V5FBE7  
**Evaporative Family** KCRVB      **Engine Type** SOHC 4  
**Liters (CID)** 2.2 (135) & 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

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  
 VV-Variable Venturi Carburetor

VEHICLE MODELS:

JCH21  
 HCH44,HCP44  
 JCH27  
  
 LZE44  
 ADH41,ADP41  
 KDH21,KDH41  
 EEM41  
 GVH24,GVL24

CARLINE:

Chrysler LeBaron  
 Chrysler LeBaron GTS  
 Chrysler LeBaron Convertible  
  
 Dodge Omni  
 Dodge Spirit  
 Dodge Aries  
 Dodge 600  
 Dodge Daytona

**Engine:** Front   X   Mid.        Rear        (continued)  
**Drive:** FWD   X   RWD        4WD Full Time        4WD Part Time

ATTACHMENT TO SDS  
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VEHICLE MODELS:

HDH44 ,HDS44  
PDH24 ,PDH44 ,  
PDL24 ,PDL44  
PDH27

KPH21 ,KPH41  
LME44  
EJM41  
PPH24 ,PPH44 ,  
PPL24 ,PPL44  
PPH27  
APH41 ,APP41

CARLINE:

Dodge Lancer  
Dodge Shadow

Dodge Shadow Convertible

Plymouth Reliant  
Plymouth Horizon  
Plymouth Caravelle  
Plymouth Sundance

Plymouth Sundance Convertible  
Plymouth Acclaim

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Passenger Cars  Light-Duty Trucks \_\_\_\_\_ Medium-Duty Vehicles \_\_\_\_\_ Gas  Diesel \_\_\_\_\_

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family KCR2.5V5FBE7

Liter (CID) 2.2 (135) & 2.5 (152) Eng. Type SOHC 4

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

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System	EGR Valve	Catalyst
				Part No.	THROTTLE BODY Part No.	Part No.	Part No.
M-1 2.2L	LME44,LZE44	M5	2625	5234054	4288296 4307296	4287178	4427165 4427167 4427170
	KPH21,KDH21		2750				
	PPL44,PDL44, PPL24,PDL24, KPH41,KDH41		2875				
	PPH24,PDH24, PPH44,PDH44 PPH27,PDH27, HDH44,HCH44		3000  3125				

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:

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

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family KCR2.5V5FBE7

Liter (CID) 2.2 (135) & 2.5 (152) Eng. Type SOHC 4

Emission Control Sys. (Special Features) TWC,HOS,EGR,(CFI),(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.	Catalytic  Part No.
M-2 2.5L	PPH24,PDH24, PPH44,PDH44 PPH27,PDH27, GVL24,GVH24, HDH44,HCH44, HCP44,HDS44, *APH41,ADH41, APP41,ADP41 JCH21 JCH27	M5	3000  3125  3250 3375	5234070	4288297 4307297	4287178	4427165 4427167 4427170

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:\*02-24-88: Correction of Errata.

Passenger Cars  Light-Duty Trucks \_\_\_\_\_ Medium-Duty Vehicles \_\_\_\_\_ Gas  Diesel  Page 4

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family KCR2.5V5FBE7

Liter (CID) 2.2 (135) & 2.5 (152) Eng. Type SOHC 4

Emission Control Sys. (Special Features) TWC, HOS, EGR, (CFI), (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.	Cataly:  Part No.
A-1 2.2L	LME44, LZE44 PPL24, PDL24, KPH21, KDH21, KPH41, KDH41 PPH24, PDH24, PPL44, PDL44, PPH44, PDH44, EJM41, EEM41 PPH27, PDH27, HDH44, HCH44, *APH41, ADH41	A3	2750 2875  3000  3125	5234050 4557520***	4288296 4307296	4287176	4427165 4427167 4427170
A-2** 2.2L				5234657 4557520***			

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: \*02-24-88: Correction of Errata.  
\*\*06-06-88: R.C. 21C. Revise Cold Engine Fuel Delivery Calibration.  
\*\*\*11-09-89: FF15c. Revise ECU Calibration to eliminate spark knock.