

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 16th 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

(continued)

Engine: Front X Mid. Rear
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 X Light-Duty Trucks _____ Medium-Duty Vehicles _____ Gas X Diesel _____
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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.