

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:

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

<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0.39	7.0	0.4

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>
0.16	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

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

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,JCP21
 HCH44,HCP44,HCX44
 JCH27,JCP27

ADH41,ADP41,ADX41
 EEH41,EEM41
 GVL24,GVS24,GVX24
 HDH44,HDS44,HDX44
 PDH24,PDH44
 PDH27

EJH41,EJM41
 P4,PPH44
 P27

Engine: Front XX

Mid. _____

Rear _____

Drive: FWD XX

RWD _____

4WD Full Time _____

4WD Part Time _____

CARLINE:

Chrysler LeBaron
 Chrysler LeBaron GTS
 Chrysler LeBaron Convertible

Dodge Spirit
 Dodge 600
 Dodge Daytona
 Dodge Lancer
 Dodge Shadow
 Dodge Shadow Convertible

Plymouth Caravelle
 Plymouth Sundance
 Plymouth Sundance Convertible

(continued)

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

VEHICLE MODELS:

APH41, APP41

CARLINE:

Plymouth Acclaim

Passenger Cars ☒ Light-Duty Trucks _____ Medium-Duty Vehicles _____ Gas ☒ Diesel ☐ Page 2

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

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

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.

19_89 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-9-179

Page 4

Passenger Cars ☒ Light-Duty Trucks _____ Medium-Duty Vehicles _____ Gas ☒ 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 4234545	4307624	4287163	4427038
	PPH24,PPH44, PDH44,GVL24, HDH44,HDS44, APH41,ADH41, APP41		3125				4427039
	PPH27,PDH27, JCH21,GVS24, HCH44,HCP44, ADP41,ADX41		3250				4427040
	JCH27		3375				4427041

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.

030186