

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-129
Relating to Certification of New Motor Vehicles

CHRYSLER 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 1985 model-year Chrysler Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

| <u>Engine Family</u> | <u>Displacement Cubic Inches (Liters)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|--|
| FCR2.2V2HDJ9 | 134 (2.2) | Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop |

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the certification emission standards for this engine family to be listed on the window decal required by "California Assembly-Line Test Procedures for 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles":

| <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 the above engine family:

| <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per Mile</u> |
|--|---|---|
| 0.23 | 4.4 | 0.5 |

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

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 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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 30 day of May, 1984.


K. D. Drachand, Chief
Mobile Source Division

Manufacturer Chrysler Corporation Executive Order No. A-9-129
 Engine Family FCR2.2V2HDJ9 Evaporative Family FCRVA
 Engine CID (Liters) 134 (2.2)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 EEC-Electronic Engine Control
 EI-Electronic Ignition
 ESAC-Electronic Spark Advance Control
 VA-Vacuum Advance
 VR-Vacuum Retard

Fuel System

CFI, CL, DID, DIP, EFI, MFI
 V-Variable Venturi
 VV-Variable Venturi

Exhaust Emissions Control System

AIP-Air Injection-Pump
 AIV-Air Injection-Valve
 CL-Closed Loop
 EGR-Exhaust Gas Recirculation
 EM-Engine Modification
 OC-Oxidation Catalyst System
 TOC-Trap Oxidizer Continuous
 TOI-Trap Oxidizer Intermittent
 TR-Thermal Reactor
 TWC-Three-Way Catalyst System

Special Features

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 EFI-Electronic Fuel Injection
 IC - Intercooler
 MFI-Mechanical Fuel Injection
 TC-Turbocharged

VEHICLE MODELS:

ZE44;ZH44
 ZH24;ZP24
 DH21;DL21;DM21;
 DH41;DL41;DM41
 DH45;DP45
 ME44;MH44
 MH24;MP24
 PH21;PL21;PM21;
 PH41;PL41;PM41
 PH45;PP45

CARLINE

Dodge Omni
 Dodge Charger
 Dodge Aries
 Dodge Aries Wagon
 Plymouth Horizon
 Plymouth Turismo
 Plymouth Reliant
 Plymouth Reliant Wagon

DRIVE SYSTEM: Front (E-W) Engine/ Front -Wheel Drive

E.O. #A-9-129

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Chrysler Corporation Page 2

Engine Family FCR2,ZV2HDJ9 Engine Code M-1;M-3;M-4

ECS (Special Features) AIP,EGR,TWC,CL CID (Liter)-Type 134(2.2)-SOHC 4

| Engine Code | Vehicle Models (If Coded see attachment) | Trans. | Equiv. Test Weight | Ign. System ESA/EFC Part No. | Fuel System ZV Part No. | EGR Valve Part No. | Label Ident. Part No. |
|-------------|---|--------|--------------------|------------------------------------|-------------------------------|-----------------------|---|
| M-1 | ME44; ZE44;MH44;ZH44 | M5 | 2625 | 5226455B | 04288537 | 04287430 04300430 | VECI 4288814 VAC. HOSE 4307545 |
| M-3 | MH44;ZH44 | | 2625 | 5226449A | 04288537 | 04287405 04300405 | VECI 4288850 VAC. HOSE 4307545 |
| | MH24;ZH24;MP24; ZP24;ME44;ZE44 | | 2750 | | | | |
| M-4 | PL21;DL21;PM21; DM21; PL41;DL41; | M4 | 2750 | 5226455B | | 04287403 04300403 | VECI 4288814 VAC. HOSE 4307545 |
| | PH45;DH45;PP45; DP45;PH21;DH21; PM41;DM41;DH41 | | 2875 | | | | |
| | PM21;DM21; MH24;ZH24 | M5 | 2750 | | | | Vac. Hose 4307770* 4179645** |
| | PH45;DH45;PP45; DP45;PH21;DH21; PM41;DM41;PH41; DH41 | | 2875 | | | | |

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.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue - 05/14/84

Revised - 08/24/84 (Running Change 38c, dated 08/17/84. Delete canister purge delay valve. Running change 38c is applicable to engine codes M-1; M-3; M-4.

Revised - 02/12/85 (Running Change 90c, dated 02/05/85. Revise test weights to reflect production.)

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**Revised - 05/14/85: Field Fix 38C, dated 04/22/85. (Add a thermal bowl vent valve into the carburetor bowl vent line to the vapor canister. Includes

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Chrysler Corporation Page 3

Engine Family FCR2.2V2HJD9 Engine Code A-1:A-2

ECS (Special Features) AIP, EGR, TWC, CL CID (Liter)-Type 134(2.2)-SOHC 4

| Engine Code | Vehicle Models (If Coded see attachment) | Trans. | Equip. Test Weight | Ign. System ESA/EFC Part No. | Fuel System 2V Part No. | EGR Valve Part No. | Label Ident. Part No. |
|-------------|--|--------|--------------------|------------------------------------|-------------------------------|-----------------------|----------------------------------|
| A-1 | ME44; ZE44; MH44; ZH44 | A3 | 2625 | 5226451A 5226451B | 04288538 | 04287433 04300433 | VECI 4288814 |
| | MH24; ZH24; MP24; ZP24 | | 2750 | | | | VAC. HOSE 4307545 4307770* |
| A-2 | ** (DM21; PL21; DL21; PM21); PH21; DH21; PM41; DM41; PH41; DH41 | | 2875 | | | | 4179645*** |
| | PH45; DH45; PP45; DP45 | | 3000 | | | | |

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.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue - 05/14/84

Revised - 06/13/84 (PL41 & DL41 models put into correct test weight class.)

*Revised - 08/24/84 (Running Change 38c, dated 08/17/84. Delete canister purge delay valve.)

**Revised - 02/12/85 (Running Change 90c, dated 02/05/85. Revise test weights to reflect production.)

071080 ***Revised - 05/14/85: Field Fix 38C, dated 04/22/85. (Add a thermal bowl vent valve into the carburetor bowl vent line to the vapor canister.)

E.O. #A -9-129

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Chrysler Corporation

Page 4

Engine Family FCR2.2V2HDJ9

Engine Code M-1;M-3;M-4

ECS (Special Features) AIP,EGR,TWC,CL

CID (Liter)-Type 134(2.2)-SOHC 4

| Engine Code | Vehicle Models (If Coded see attachment) | Trans. | Equiv. Test Weight | Ign. System | Fuel System | EGR Valve | Label Ident. |
|-------------|--|--------|--------------------|-------------|-------------|----------------------|---|
| | | | | ESA/EFC | 2V | | |
| | | | | Part No. | Part No. | Part No. | Part No. |
| M-6 | ME44; ZE44;MH44;ZH44 | M5 | 2625 | 5226455B | 04288554 | 04287430 04300430 | VECI 4288814 VAC. HOSE 4307545 |
| M-3 | MH44;ZH44 | | 2625 | 5226449A | 04288537 | 04287405 04300405 | VECI 4288850 VAC. HOSE 4307545 |
| | MH24;ZH24;MP24; ZP24;ME44;ZE44 | | 2750 | | | | |
| M-7 | PL21;DL21;PM21; DM21; | M4 | 2750 | 5226455B | 04288554 | 04287403 04300403 | VECI 4288814 VAC. HOSE 4307545 |
| | PH45;DH45;PP45; DP45;(PH21;DH21; PL41;DL41;PM41; DM41;PH41;DH41)* | | 2875 | | | | |
| | PM21;DM21 (MH24;ZH24)* | M5 | 2750 | | | | VAC. HOSE 4307770 4179645** |
| | PH45;DH45;PP45; DP45;(PH21;DH21; PM41;DM41;PH41; DH41)* | | 2875 | | | | |

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.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue - 09/14/84: (R.C. 47c dated 08/24/84. Revise carburetor idle flow curve and PCV valve flow.)

*Revised - 02/12/85: (R.C. 90c dated 02/05/85. Revise test weights to reflect production.)

**Revised - 05/14/85: Field Fix 38C, dated 04/22/85. (Add a thermal bowl vent valve in the carburetor bowl vent line to the vapor canister. Includes codes M-6 & M-3.)

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

 Passenger Cars Light-Duty Trucks Medium-Duty Vehicles Gas DieselManufacturer Chrysler CorporationPage 5Engine Family FCR2.2V2HDJ9Engine Code A-1;A-2ECS (Special Features) AIP,EGR,TWC,CLCID (Liter)-
Type 134(2.2)-SOHC 4

| Engine Code | Vehicle Models (If Coded see attachment) | Trans. | Equiv. Test Weight | Ign. System ESA/EFC Part No. | Fuel System 2V Part No. | EGR Valve Part No. | Label Ident. Part No. |
|-------------|---|--------|--------------------|------------------------------------|-------------------------------|-----------------------|-------------------------------------|
| A-3 | ME44;ZE44;MH44 ZH44 | A3 | 2625 | 5226451A 5226451B | 04288555 | 04287433 04300433 | VECI 4288814 |
| | MH24;ZH24;MP24; ZP24 | | 2750 | | | | VAC. HOSE 4307545 4307770 |
| A-4 | (PL41;DL41)* PH21;DH21;PM41 DM41;PH41;DM41; (PL21;DL21;PM21; DM21)* | | 2875 | | | | 4179645** |
| | PH45;DH45;PP45; DP45 | | 3000 | | | | |

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.

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Date of Issue - 09/14/84: (R.C. 47c dated 08/24/84. Revise carburetor idle flow curve and PCV valve flow.)

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**Revised - 05/14/85: Field Fix 38C, dated 04/22/85. (Add a thermal bowl vent valve in the carburetor bowl vent line to the vapor canister.)

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A-9-129

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

Manufacturer Chrysler Corporation

Page 6

Engine Family FCR2.2V2HJDJ9

Engine Code All

ECS (Special Features) AIP,EGR,TWC,CL

CID (Liter)-
Type 134(2,2)-SOHC4

| Engine Code | Vehicle Models (If Coded see attachment) | Trans. | Equiv. Test Weight | Ign. System ESA/EFC Part No. | Fuel System 2V Part No. | EGR Valve Part No. | Label Ident. Part No. |
|---------------------|--|--------|--------------------|------------------------------------|-------------------------------|-----------------------|--------------------------|
| All | All | All | All | All | All | All | VAC. HOSE 4275039 |
| M-1,M-4, M-6,M-7 | Plymouth Horizon, Turismo,Dodge Omni,Charger Models | | | 5227616* | | | |
| M-5 | | | | 5233524** | | | |
| A-1,A-2, A-3,A-4 | | | | 5227626* | | | |
| | | | | 5227614* | | | |
| M-1 M-4 M-6 | | | | 5233524 5234242 | | | |

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.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue - 08/19/85: Field Fix 42c dated 06/19/85. Add heated air delay valve to all models.

*Revised - 09/11/85: Field Fix 71C dated 09/05/86. ESA/EFC Service Parts Consolidation. All Other Listed Items Remain The Same.

**Revised - 06/22/87: Field Fix 76C dated 06/15/87. ESA/EFC Revision, Start Procedure Revision and Addition of Vacuum Delay Valve in ESA/EFC Vacuum Line.

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***Revised - 10/05/87: Field Fix 78C. Release for Service a New ESA/EFC to Reduce RFI.