

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-164
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 1988 model-year Chrysler Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

| <u>Engine Family</u> | <u>Displacement Cubic Inches (Liters)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|--|
| JCR2.5T5FBHX | 152 (2.5) | Exhaust Gas Recirculation Three-Way Catalyst Heated Oxygen Sensor (Electronic 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>Equivalent Inertia Weight</u> | <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per mile</u> |
|--|--|---|---|
| 0-3999 | 0.39 | 9.0 | 1.0 |

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

| <u>Equivalent Inertia Weight</u> | <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per Mile</u> |
|--|--|---|---|
| 0-3999 | 0.14 | 2.7 | 0.3 |

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 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 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 listed vehicle models 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 10th day of March, 1987.


K. D. Drachand, Chief
Mobile Source Division

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR2.5T5FBHX
 Evaporative Family JCRTB Engine Type IN LINE 4 SOHC
 Liters (CID) 2.5 (152)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 EEC-Electronic Engine Control
 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
 CL-Closed Loop
 EGR-Exhaust Gas Recirculation
 EM-Engine Modification
 OC-Oxidation Catalyst System
 SPL-Smoke Puff Limiter or Throttle Delay
 TOC-Trap Oxidizer, Continual
 TOP-Trap Oxidizer, Periodical
 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 or aftercooler
 MFI-Mechanical Fuel Injection
 TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI
 nV-nVenturi Carburetor

VEHICLE MODELS:

SKE12, SKE13,
 SKH52, SKH53,
 SKL52, SKP52

SHH52, SHH53,
 SHL52, SHP52

CARLINE:

DODGE CARAVAN/RAM VAN

PLYMOUTH VOYAGER

Engine: Front X Mid. _____ Rear _____
 Drive: FWD X RWD _____ 4WD Full Time _____ 4WD Part Time _____

19_88 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR2.5T5FBHX

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

Emission Control Sys. (Special Features) TWC,CL,EGR,(EFI)

| Engine Code | Vehicle Models (If Coded see attachment) SEE ATTACH FOR (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 | SKE12 | M5 | 3375 | 5233030 | 4418503 | 4287174 | 4301851 |
| | SKE13,SHL52, SKL52,SKH52* | | 3500 | | | | |
| | SHH52, SKP52 | | 3625 | | | | |
| | SHP52,SHH53, SKH53 | | 3750 | | | | |
| A-1 | SKE12 | A3 | 3375 | 5233028 | | 4287175 | |
| | SKE13,SHL52, SKL52 | | 3500 | | | | |
| | SKH52, SKP52 | | 3625 | | | | |
| | SHH52,SKP52 | | 3750 | | | | |
| | SHH53,SKH53 | | 3875 | | | | |

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 12-17-86 Revisions: *02-11-88: R.C. 77TC - Production weight update

19₈₈ AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-9-164

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

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Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR2.5T5FBHX

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Emission Control Sys. (Special Features) TWC,CL,EGR,(EFI)

| Engine Code | Vehicle Models (If Coded see attachment) SEE ATTACH FOR (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-2 | SKE12 | M5 | 3375 | 5233556 | 4418503 | 4287174 | 4301851 |
| | SKE13,SHL52, SKL52,SKH52* | | 3500 | | | | |
| | SHH52, SKP52 | | 3625 | | | | |
| | SHP52,SHH53, SKH53 | | 3750 | | | | |

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 03/18/86 Revisions: *02-11-88: R.C. 77TC - Production weight update. Running Change 2T; revise logic module calibration.

CALIFORNIA

PROJECTED SALES
EVAP FAMILY
EVAP CODE
JCRTB
JCRTB
AA

1980 CHRYSLER CORPORATION VEHICLE DESCRIPTIONS
ENGINE FAMILY JCR2-5T5FBM DISPLACEMENT 2.5L EXHAUST CONTROL SYSTEM 3CL EGR TBI
EVAPORATIVE CONTROL SYSTEM CANISTER CATALYST CODE F0M

| ENGINE CODE | TRANS CODE | OATG STD MIN MAX | TIRES STD MIN MAX | TIRE TREAD SALES CODE | N/V STD MIN MAX | ROAD LOAD HP | A/C HP | DRIVE SHALE TOTAL | TEST WT | INERT. | VEHICLE MODEL | SALES |
|-------------|------------|------------------|-------------------|-----------------------|-----------------|--------------|--------|-------------------|---------|--------|---------------|-------|
| A-1 | A3 | 3.22 | P195/75R14 | TKMTAD6DY SBR | 44.0 | 7.0 | 9.9 | 1953 | 3375 | 3500 | SKE12 | 555 |
| | CN | 3.22 | P195/75R14 | TKMTAD6DY SBR | 44.0 | 7.0 | 9.9 | | | | | |
| | CN | 3.22 | L1195/75R14-C | TKMTAD6DY SBR | 44.4 | 8.0 | 9.6 | | | | | 1295 |
| A-1 | A3 | 3.22 | L1195/75R15-C | TNMTAD6DY SBR | 42.9 | 9.0 | 9.9 | 1900 | 3500A | 3500 | SKE13 | |
| | CN | 3.22 | L1195/75R15-C | TNMTAD6DY SBR | 42.9 | 9.0 | 9.9 | | | | | 1029 |
| | CN | 3.22 | L1195/75R15-C | TNMTAD6DY SBR | 42.9 | 9.0 | 9.9 | | | | | 1083 |
| A-1 | A3 | 3.22 | P195/75R14 | TKMTAD6DY SBR | 44.0 | 9.1 | 10.0 | 1962 | 3231 | 3500 | SML52 | 1365 |
| | CN | 3.22 | P195/75R15 | TNMTAD6DY SBR | 42.3 | 9.1 | 10.0 | 1956 | 3240 | 3500 | SKL52 | 1890 |
| | CN | 3.22 | P205/70R14 | TLFTAD6DY SBR | 44.2 | 9.1 | 10.0 | 1983 | 3411 | 3500 | SMH52 | 599 |
| | | | | | | | | 1979 | 3312 | 3625 | SKH52 | 822 |
| | | | | | | | | 2012 | 3475 | 3750 | SHP52 | |
| | | | | | | | | 2011 | 3375 | 3625 | SKP52 | |
| | | | | | | | | | | | | 531 |
| | | | | | | | | | | | | 722 |
| A-1 | A3 | 3.22 | P195/75R14 | TKMTAD6DY SBR | 44.0 | 9.0 | 10.7 | 2010 | 3525 | 3875 | SKH53 | |
| | CN | 3.22 | P195/75R15 | TNMTAD6DY SBR | 42.3 | 9.0 | 10.7 | 2007 | 3533 | 3875 | SKH53 | |
| | CN | 3.22 | P205/70R14 | TLFTAD6DY SBR | 44.2 | 9.0 | 10.7 | | | | | |

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REV 7/10/86
7/25/86
7/31/86
8/28/86
8/12/ 1/86

10-H12310

CHRYSLER MOTORS CORPORATION

1988 CALIFORNIA 2.5L LIGHT DUTY TRUCK

Test Wt. & H.P.

| <u>Model</u> | <u>Test Wt. & Trans.</u> | <u>Tire Codes</u> | <u>Tires</u> | <u>Coastdown H.P.</u> |
|--------------|----------------------------------|-----------------------|---------------|---------------------------|
| SKE12 | 3375 A11 | TKE | LT195/75R14-C | 9.6 |
| | | TKN | P195/75R14 | 9.9 |
| | | TLF | P205/70R14 | 9.9 |
| | | TLG | P205/70R14 | 9.9 |
| SKE13 | 3500 M5 | TND | LT195/75R15-C | 10.0 |
| | 3625 A3 | TND | LT195/75R15-C | 9.9 |
| SHL52, SKL52 | 3500 A11 | TKN | P195/75R14 | 10.0 |
| SKH52, SKP52 | 3625 A11 | TLF | P205/70R14 | 10.0 |
| SHH52, SHP52 | 3750 A11 | TLG | P205/70R14 | 10.0 |
| | | TNC | P195/75R15 | 10.0 |
| | | TNE | P195/75R15 | 10.0 |
| | | | | |
| SHH53, SKH53 | 3875 A11 | TKN | P195/75R14 | 10.7 |
| | | TLF | P205/70R14 | 10.7 |
| | | TLG | P205/70R14 | 10.7 |
| | | TNC | P195/75R15 | 10.7 |
| | | TNE | P195/75R15 | 10.7 |

All tires are steel belted radial.

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