State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-387
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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1998 model-year Chrysler Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: WCRXT0232220 Displacement: 3.8 Liters (232 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation
Three Way Catalytic Converter
Heated Oxygen Sensors (two)
Sequential Multiport Fuel Injection

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

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) TLEV certification exhaust emission standards for this engine family in grams per mile are:

| Loaded Vehicle Weight (lbs.) | Miles | NMOG | CO | NOx | HCHO | CO (20°F) |
|---|---|---|---|---|---|---|
| 3751-5750 | 50,000 | 0.160 | 4.4 | 0.7 | 0.018 | 12.5 |
| | 100,000 | 0.200 | 5.5 | 0.9 | 0.023 | n/a |

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for NMOG reflect application of a 0.98 RAF for 1998 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

| Loaded Vehicle Weight (lbs.) | Miles | NMOG | CO | NOx | HCHO | CO (20°F) |
|---|---|---|---|---|---|---|
| 3751-5750 | 50,000 | 0.110 | 1.2 | 0.2 | 0.001 | 7.0 |
| | 100,000 | 0.138 | 1.4 | 0.2 | 0.001 | n/a |

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth 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 under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, 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 Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit 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 manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

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 provisions (Title 13, California Code of Regulations, 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 2nd day of July 1997.

R. B. Summerfield, Chief
Mobile Source Operations Division

E.O. # A-9-387
Page 1 of 1

# 1998 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
## PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Chrysler Corporation Exh Eng Fam: WCRXT0232220 Evap Fam: WCRXE0101G2A
All Eng Codes in Eng Fam: CA X 49S ___ 50S ___ AB965 ___ ORVR: YES ___ NO X
Exh Std: CA Tier-1 ___ TLEV X LEV ___ ULEV ___ SULEV ___; US EPA Tier-1 ___
Veh Class(es): PC ___ LDT1 ___ LDT2 X MDV1 ___ MDV2 ___ MDV3 ___ MDV4 ___ MDV5 ___
Single Cert Std for Multi-Class Eng Fam: N/A (Specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
Fuel Type(s): Dedicated X Flex-Fuel ___ Dual-Fuel ___ Bi-Level ___ Gasoline X Diesel ___
CNG ___ LNG ___ LPG ___ M85 ___ Other (specify) ___
Emis Test Fuel(s): Indo ___ CBG X CNG ___ LPG ___ M85 ___ Other(specify) ___
Diesel: 13 CCR 2282 ___ or 40 CFR 86.113-90 ___ or 40 CFR 86.113-94 ___
Evaporative Emission Test Procedure: California ___ Federal X
Service Accum: Std AMA ___ Mod AMA X Mfr ADP ___ Other (Specify) ___
NMOG Test Procedure: N/A ___ Std ___ Equiv X R/L Test Proce: SHED ___ Pt Source X
Engine Configuration: V-6 Displacement: / 3.8 Liters / 232 Cubic Inches
Valves per Cylinder: 2 Rated HP: 166 @ 4300 RPM
Engine: Front X Mid ___ Rear ___ Drive: FWD X RWD ___ 4WD-FT ___ 4WD-PT ___
Exhaust ECS (eg., EGR, MFI, TC, CAC): EGR,HO2S(2), SFI, TWC, OBDII
(use abbreviations per SAE J1930 JUN93)

| Engine Code (also list CA/49ST/50ST) | Vehicle Models (if coded see attachment) | Trans. Type M5 A4 | ETW or Test Wt. | DPA or RLHP | Ignition (ECM/PCM) Part No. | EGR System Part No. | Catalyst Converter Part No. |
|---|---|---|---|---|---|---|---|
| CA-100 (CA) | NSKP53<br>NSYP53<br>NSYS53 | A4 | 4500 | S<br>E<br>E | 04748229AF | 04287189 | 04682888 |
| | NSKP52<br>NSYP52 | | 4250 | A<br>T<br>T<br>A<br>C<br>H<br>M<br>E<br>N<br>T | | | |

Date Issued: 04/21/97

Revisions: 07/01/97

TD03-SDS/98

Chrysler Corporation
Family Tire Usage

ATTACHMENT TO SDS PAGE 1
OF EXECUTIVE ORDER A-9-387

| MODEL | ENG | TRANS | A C | GVW | MKT TYPE | LVW ETW | TIRE DESCRIPTION USE | YR | COD | MFG | OPT | LOADED VEHICLE WEIGHT COAST DOWN TIME | *DYNO HP | TIRE PRES F | R | COLD CO ELECTRIC DYNO COEFFICIENTS TARGET A (LINE 1 IS | B 20 DEG | C COEFFS, | SET A (LINE 2 IS | B 50 DEG | C WHEN NEEDED) | ADJUSTED LOADED VEHICLE WGT ALVW ETW | COAST DOWN TIME | *DYNO HP | TIRE PRES F | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NSKP52 | EGH | DGL | FW | Y | 0 | C | 4250 | STD | 98 | TMR | TZH | 17.48 | 9.1 | 35 | 35 | | | | | | | | | | | |
| | | | | | | | | OPT | 98 | TM5 | TZH | 16.56 | 10.1 | 35 | 35 | | | | | | | | | | | |
| | | | | | | | | OPT | 98 | TMR | TZA | 17.08 | 9.6 | 35 | 35 | | | | | | | | | | | |
| NSKP53 | EGH | DGL | FW | Y | 0 | C | 4500 | STD | 98 | TMR | TZH | 18.06 | 9.3 | 35 | 35 | | | | | | | | | | | |
| | | | | | | | | OPT | 98 | TM5 | TZH | 17.17 | 10.5 | 35 | 35 | | | | | | | | | | | |
| | | | | | | | | OPT | 98 | TMR | TZA | 17.67 | 9.9 | 35 | 35 | | | | | | | | | | | |
| NSYP52 | EGH | DGL | FW | Y | 0 | C | 4250 | STD | 98 | TM5 | TZH | 16.56 | 10.1 | 35 | 35 | | | | | | | | | | | |
| | | | | | | | | OPT | 98 | TMR | TZH | 17.48 | 9.1 | 35 | 35 | | | | | | | | | | | |
| NSYP53 | EGH | DGL | FW | Y | 0 | C | 4500 | STD | 98 | TMR | TZH | 18.06 | 9.3 | 35 | 35 | | | | | | | | | | | |
| | | | | | | | | OPT | 98 | TM5 | TZH | 17.17 | 10.5 | 35 | 35 | 48.56 | | 0.03123 | 2.68 | 0.2542 | 0.02594 | | | | | |
| | | | | | | | | | | | | | | | | 44.14 | | 0.02635 | -2.87 | 0.5882 | 0.01991 | | | | | |
| | | | | | | | | OPT | 98 | TMR | TZA | 17.67 | 9.9 | 35 | 35 | | | | | | | | | | | |
| NSYS53 | EGH | DGL | FW | Y | 0 | C | 4500 | STD | 98 | TM5 | TZH | 17.17 | 10.5 | 35 | 35 | | | | | | | | | | | |

* - For DYNO HP = 0.00
Ref To FRONTAL AREA

/ 10. - TD03 - 400 /

Report Date: 05/23/97
Time: 15:36:54

# MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER

Engine Family: WCRXT0232220
Evaporative Fam: WCRXE0101G2A

Certificate #:

| Model ID | Car Line | California Sales |
|---|---|---|
| NSKP52 | Caravan LE 2WD | YES |
| NSKP53 | Grand Caravan LE 2WD | YES |
| NSYP53 | Town & Country 2WD | YES |
| NSYP52 | Town & Country LX 2WD | YES |
| NSYS53 | Town & Country Limited 2WD | YES |

```
Model Codes
NS K P  53
|  | |  |
|  | |  --- Body Style
|  | |       12=113" wb Van
|  | |       13=119" wb Van
|  | |       52=113" wb Wagon
|  | |       53=119" wb Wagon
|  | |
|  | ------ Price Class
|  |         H=High Line
|  |         P=Premium
|  |         L=Low Line
|  |
|  -------- Model
|            K=Dodge      D=Dodge AWD
|            H=Plymouth   P=Plymouth AWD
|            Y=Chrysler   C=Chrysler AWD
|
----------- Body Code
            NS=Minivan
```