File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-334
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-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year Chrysler Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Ultra-Low Emission Vehicle (ULEV)

Fuel Type: Compressed Natural Gas (CNG)

Engine Family: TCR3.328C7JK Displacement: 3.3 Liters (201 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Three Way plus Oxidation Catalytic Converter
Heated Oxygen Sensors (two)
Sequential Multiport Fuel Injection

Vehicle models, transmissions, and engine codes are listed on attachments.

The ULEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
3751-5750	50,000	0.050	2.2	0.4	0.009
	100,000	0.070	2.8	0.5	0.013

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a reactivity adjustment factor (RAF) for CNG-fueled light-duty ULEVs, and the addition of the product of the methane exhaust emission value and a RAF for methane emission of CNG-fueled light-duty ULEVs.

BE IF FURTHER RESOLVED: That, as of the date of this order, the Air Resources Board has not adopted a RAF for light-duty ULEVs operated on CNG, or a methane RAF for such vehicles. Based on available data and analysis, there is a strong likelihood that the initially adopted RAF for such vehicles will be less than 1.000, and the initially adopted methane RAF for such vehicles will be less than the numerical value of the maximum incremental reactivity of methane (0.0148). With the consent of the manufacturer, which has been provided, the applicable RAF and methane RAF for the listed engine family shall be treated for all purposes relating to this certification as:

Reactivity Adjustment Factor for NMOG Mass Emission: 1.000

Reactivity Adjustment Factor for Methane Mass Emission: 0.0148

The ULEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
3751-5750	50,000	0.014	0.2	0.1	0.001
	100,000	0.024	0.3	0.1	0.002

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 non-methane organic gas (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 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 Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

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)(5.1) ("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 29th day of February 1996.

John Kowalski for

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

E.O. # A-9-334
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Manufacturer: Chrysler Corporation Exh Eng Fam: TCR3.328C7JK Evap Fam: TCR5000WYCBA (FED)
All Eng Codes in Eng Fam: CA____ 49S____ 50S X AB965____
Exh Std: CA Tier-1____ TLEV____ LEV____ ULEV X ZEV____; US EPA Tier-1 X
Evap Std: 50K X Useful Life with R/L____ In-Use Exh Std: Full In Use___ Alt In Use X
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____ Diesel____
CNG X LNG____ LPG____ M85____ Other (specify)____
Emis Test Fuel(s): Indo____ Ph2____ CNG X LPG____ M85____ Other(specify) ____
Diesel: 13 CCR 2282____ or 40 CFR 86.113-90____ or 40 CFR 86.113-94____
Service Accum: Std AMA ____ Mod AMA ____ Mfr ADP ____ Other (Specify) ASSIGNED
NMOG Test Procedure: N/A____ Std____ Equiv X R/L Test Proce: SHED____ Pt Source____
Hybrid: Type A___ B___ C___, APU Cycle (e.g., Otto, Diesel, Turbine)____
Engine Configuration: V-6 Displacement: / 3.3 Liters / 201 Cubic Inches
Valves per Cylinder: 2 Rated HP: 135 @ 5000 RPM
Engine: Front X Mid____ Rear____ Drive: FWD X RWD____ 4WD-FT____ 4WD-PT____
Exhaust ECS (eg., EGR, MFI, TC, CAC): TWC+OC HO2S(2) SFI
(use abbreviations per SAE J1930 SEP91)

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 FA-100 (50ST)	NSHH53 NSHL53 NSKH52 NSKL53	A4	4500	SEE ATTACHMENT	04727164	N.A.	04682820

Date Issued: 01/20/96
Revisions: 02-27-96
TF02 50S/CNG

Chrysler Corporation
Family Tire Usage

MODEL	ENG	TRANS	A C	GVW	MKT TYPE	LVW	TIRE DESCRIPTION USE	YR	COD	MFG	OPT	COAST DOWN TIME	*DYNO HP	TIRE PRES F	TIRE PRES R	LOADED VEHICLE WEIGHT: TARGET A (LINE 1 IS 20 DEG COEFFS, LINE 2 IS 50 DEG WHEN NEEDED)	B	C	SET A	B	C	ADJUSTED LOADED VEHICLE WGT: ALVW	COAST DOWN TIME	*DYNO HP	TIRE PRES F	TIRE PRES R
NSHH53	EGP	DGL	FW Y	0	C	4500	STD	96	TM3	TZA		17.36	9.4	35	35											
NSHH53	EGP	DGL	FW Y	0	F	4500	STD	96	TM3	TZA		17.36	9.4	35	35											
NSHL53	EGP	DGL	FW Y	0	C	4500	STD	96	TM3	TZA		17.36	9.4	35	35											
NSHL53	EGP	DGL	FW Y	0	F	4500	STD	96	TM3	TZA		17.36	9.4	35	35											
NSKH53	EGP	DGL	FW Y	0	C	4500	STD	96	TM3	TZA		17.36	9.4	35	35											
NSKH53	EGP	DGL	FW Y	0	F	4500	STD	96	TM3	TZA		17.36	9.4	35	35											
NSKL53	EGP	DGL	FW Y	0	C	4500	STD	96	TM3	TZA		17.36	9.4	35	35											
NSKL53	EGP	DGL	FW Y	0	F	4500	STD	96	TM3	TZA		17.36	9.4	35	35											

* - For DYNO HP = 0.00
Ref To FRONTAL AREA

/ 10. - TE02 - 400 /

Report Date: 12/08/95
Time: 12:37:37

Chrysler Corporation
FAMILY TIRE DESCRIPTION

TIRE DESCRIPTION YR	COD	MFG	OPT	NAME	SIZE	RPM	CONSTRUCTION COD	TREAD MATERIAL	PLY	SW	SIDEWALL MATERIAL	PLY	OVERLAY MATERIAL	PLY	TREAD DEPTH (IN.) X 1/32
96	TM3	TZA		CONQUEST	P215/70R15	780	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	Nylon	1	10

Report Date: 12/08/95
Time: 12:37:37

MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER

Engine Family: TCR3.328C7JK
Evaporative Fam: TCR5000WYCBA

Model ID	Car Line
NSKH53	Grand Caravan (2WD)
NSKL53	Grand Caravan (2WD)
NSHH53	Grand Voyager (2WD)
NSHL53	Grand Voyager (2nd)

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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
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