

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-452
Relating to Certification of New Motor Vehicles

DAIMLERCHRYSLER 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 2000 model-year DaimlerChrysler Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: YCRXT0148230 Displacement: 2.4 Liters (148 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) LEV 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	0.100	4.4	0.4	0.018	12.5
	100,000	0.130	5.5	0.5	0.023	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for NMOG reflect application of a 0.94 RAF for 2000 model-year LEVs. The LEV 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	0.073	1.2	0.1	0.002	5.0
	100,000	0.090	1.4	0.1	0.002	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 listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) 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 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 15th day of July 1999.

A handwritten signature in cursive script, appearing to read "R. B. Summerfield".

R. B. Summerfield, Chief
Mobile Source Operations Division

2000 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: DaimlerChrysler Corp. Exh Eng Fam: YCRXT0148230 Evap Fam: YCRXE0101G2A
 All Eng Codes in Eng Fam: CA 49S 50S AB965 ORVR: YES NO
 Ch Std: CA Tier-1 TLEV LEV ULEV SULEV ; US EPA Tier-1 NLEV
 Veh Class(es): PC LDT1 LDT2 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 Flex-Fuel Dual-Fuel Bi-Level Gasoline Diesel
 CNG LNG LPG M85 Other (specify) _____
 Emis Test Fuel(s): Indo CBG 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
 Service Accum: Std AMA Mod AMA Mfr ADP Other (Specify) _____
 NMOG Test Procedure: N/A Std Equiv R/L Test Proce: SHED Pt Source
 Engine Configuration: I-4 Displacement: _____ / 2.4 Liters _____ / 148 Cubic Inches
 Valves per Cylinder: 4 Rated HP: _____ 150 @ 5200 RPM
 Engine: Front Mid Rear Drive: FWD RWD 4WD-FT 4WD-PT
 Exhaust ECS (eg., EGR, MFI, TC, CAC): HO2S(2), SFI, TWC, EGR

(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.
NA-100 (CA, 49S) (49S=NLEV)	NSHL52 NSKL52	A3	4000	S E E A T T A C H M E N T	04727275AA	04287820AA 04287820AC	04809222AA

Date Issued: 3/18/99
Revisions: 5-20-99

ADJUSTED LOADED VEHICLE WGT

LOADED VEHICLE WEIGHT

MODEL	ENG	TRANS	A	MKT	LWM	TIRE	DESCRIPTION	COAST	*DYNO	TIRE	PRE	TARGET	COLD	ELECTRIC	DYNO	COEFFICIENTS	ALVM	COAST	TIRE
EDZ	DGC	FW	Y	0	C	4000	STD	00	TLP	TZA	16.14	9.8	35	35	45.55	41.41	0.02946	0.02678	0.03246
EDZ	DGC	FW	Y	0	C	4000	OPT	00	TM3	TZA	17.01	9.7	35	35	31.68	28.80	0.02951	0.03246	0.02951
EDZ	DGC	FW	Y	0	C	4000	OPT	00	TM5	TZH	16.28	10.0	35	35	33.08	30.07	0.03397	0.03088	0.03397
EDZ	DGC	FW	Y	0	C	4000	OPT	00	TMR	TZA	16.96	9.9	35	35	31.23	28.39	0.02967	0.02946	0.02678
EDZ	DGC	FW	Y	0	C	4000	STD	00	TLP	TZA	16.14	9.8	35	35	45.55	41.41	0.02946	0.02678	0.03246
EDZ	DGC	FW	Y	0	C	4000	OPT	00	TM3	TZA	17.01	9.7	35	35	31.68	28.80	0.02951	0.03246	0.02951
EDZ	DGC	FW	Y	0	C	4000	OPT	00	TM5	TZH	16.28	10.0	35	35	33.08	30.07	0.03397	0.03088	0.03397
EDZ	DGC	FW	Y	0	C	4000	OPT	00	TMR	TZA	16.96	9.9	35	35	31.23	28.39	0.02967	0.02946	0.02678

* - For DYNO HP = 0.00
Ref To FRONTAL AREA

MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER

Engine Family: YCRXT0148230
Evaporative Fam: YCRXE0101G2A

Certificate #:

Model ID	California
MSKL52	Sales
MSHL52	YES
	YES

Car Line	
Caravan 2WD	
Voyager 2WD	

Model Codes

MS 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
H=Plymouth
Y=Chrysler
D=Dodge AWD
P=Plymouth AWD
C=Chrysler AWD

----- Body Code
NS=Minivan