

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-454  
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: YCRXT0201230 Displacement: 3.3 Liters (201 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:

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>	<u>CO (20°F)</u>
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:

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>	<u>CO (20°F)</u>
3751-5750	50,000	0.072	0.6	0.1	0.002	4.6
	100,000	0.088	0.7	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."

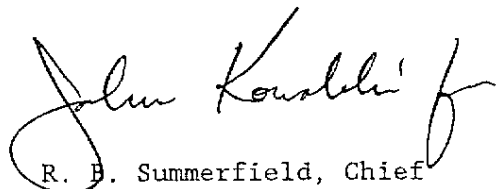
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned 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 23<sup>rd</sup> day of June 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

E.O.# A-9-454  
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Manufacturer: DaimlerChrysler Corp Exh Eng Fam: YCRXT0201230 Evap Fam: YCRXE0101G2A  
 All Eng Codes in Eng Fam: CA X 49S X 50S AB965 ORVR: YES NO X  
 Exh Std: CA Tier-1 TLEV LEV X ULEV SULEV US: EPA Tier-1 NLEV 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 X Diesel  
CNG LNG LPG M85 E85 Other(specify) \_\_\_\_\_  
 Emis Test Fuel(s): Indo CBG X CNG LPG M85 E85 Other(specify) \_\_\_\_\_  
 Diesel: 13 CCR 2282 40 CFR 86.113-90 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 Equip X R/L Test Proc: SHED Pt Source X  
 Engine Configuration: V-6 Displacement 3.3 Liters 201 Cubic Inches  
 Valves per Cylinder: 2 Rated Horsepower: 162 @ 4800 RPM  
 Engine: Front X Rear Drive: FWD X RWD 4WD-FT 4WD-PT  
 Exhaust ECS (eg, EGR, MFI, TC, CAC): EGR,HO2S(2),SFI,TWC

(use abbreviations per SAE J1930 JUN93)

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. Typ: M5 A4	ETW Or TestWt	CPA Or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalyst Converter Part No.
NA-100 (CA)	NSHL52,NSKL52	A4	4000	S E E	04727279AA	047287189	04809444AA
	NSHH52,53 NSHL53 NSKH52,53 NSKL53,NSKP53 NSYP52		4250				
	NSKP53,NSYP53		4500	A T T A C H M E N T			

Date Issued: 03/31/99

Revisions: 5/20/99

ADJUSTED LOADED VEHICLE WGT

LOADED VEHICLE WEIGHT

MODEL	ENG	TRANS	A	MKT	LVW	TYRE DESCRIPTION	COAST	TYRE	HP	PRES	F	R	ELECTRIC DYNO COEFFICIENTS			DYNO PRES			TIRE										
													LINE 1	LINE 2	LINE 3	50 DEG	HP	HP		HP	F	R							
NSHH52	EGA	DGL	FW	Y	0	C	4250	STD	00	TMR	TZA	17.44	10.2	35	35	35	35	35	0.03264										
																				OPT	00	TM3	TZA	17.39	10.0	35	35	36.26	0.02967
NSHH53	EGA	DGL	FW	Y	0	C	4250	STD	00	TMR	TZA	17.44	10.2	35	35	35	35	0.03264											
																			OPT	00	TM3	TZA	17.39	10.0	35	35	36.26	0.02967	
																													OPT
NSHL52	EGA	DGL	FW	Y	0	C	4000	STD	00	TLP	TZA	15.70	9.8	35	35	35	35	0.02946											
																			OPT	00	TM3	TZA	16.52	9.6	35	35	35.18	0.02951	
																													OPT
NSHL53	EGA	DGL	FW	Y	0	C	4250	STD	00	TLP	TZA	16.60	10.0	35	35	35	35	0.02946											
																			OPT	00	TM3	TZA	17.39	10.0	35	35	45.88	0.02678	
																													OPT
NSKH52	EGA	DGL	FW	Y	0	C	4250	STD	00	TM3	TZA	17.39	10.0	35	35	35	35	0.02967											
																			STD	00	TM5	TZH	16.67	10.2	35	35	32.96	0.02951	
																													STD
NSKH53	EGA	DGL	FW	Y	0	C	4250	STD	00	TMR	TZA	17.44	10.2	35	35	35	35	0.02967											
																			OPT	00	TM3	TZA	17.39	10.0	35	35	36.26	0.02967	
																													OPT
NSKL52	EGA	DGL	FW	Y	0	C	4000	STD	00	TLP	TZA	15.70	9.8	35	35	35	35	0.02946											
																			OPT	00	TM3	TZA	16.52	9.6	35	35	35.18	0.02951	
																													OPT

10. - T002 - 400 /

\* - For DYNO HP = 0.00  
Ref To FRONTAL AREA

Report Date: 04/01/99  
Time: 12:53:24

ADJUSTED LOADED VEHICLE WGT

LOADED VEHICLE WEIGHT

MODEL	ENG	TRANS	A	MKT	LVW	TIRE DESCRIPTION	USE YR	COD	MFG	OPT	COAST	TIRE		TARGET A	COLD CO ELECTRIC DYNO COEFFICIENTS			ALVM	DOWN	COAST	TIRE			
												HP	F R		HP	F R	HP				F R	HP	F R	HP
						OPT 00 TMS TZH	15.83	10.1	35	35	36.59	0.03397												
						OPT 00 THR TZA	16.48	10.0	35	35	33.26	0.03088												
NSKL53	EGA	DGL	FH	Y	0	STD 00 TLP TZA	16.60	10.0	35	35	31.57	0.02967												
						OPT 00 TMS TZH	17.39	10.0	35	35	45.88	0.02678												
						OPT 00 THR TZA	16.67	10.2	35	35	32.96	0.03246												
						OPT 00 THR TZA	17.44	10.2	35	35	37.71	0.02951												
						OPT 00 THR TZA	17.44	10.2	35	35	34.28	0.03088												
NSKP52	EGA	DGL	FH	Y	0	STD 00 THR TZA	17.44	10.2	35	35	32.53	0.03264												
						OPT 00 TMS TZH	16.67	10.2	35	35	35.78	0.02967												
						OPT 00 THR TZA	18.08	10.1	35	35	37.81	0.03397												
NSKP53	EGA	DGL	FH	Y	0	STD 00 THR TZA	17.36	10.2	35	35	34.28	0.03088												
						OPT 00 TMS TZH	17.36	10.2	35	35	34.37	0.02967												
						STD 00 TMS TZH	16.67	10.2	35	35	39.83	0.03397												
NSYP52	EGA	DGL	FH	Y	0	STD 00 TMS TZH	16.67	10.2	35	35	36.21	0.03088												
						STD 00 TMS TZH	17.36	10.2	35	35	37.71	0.03397												
NSYP53	EGA	DGL	FH	Y	0	STD 00 TMS TZH	17.36	10.2	35	35	34.28	0.03088												
						STD 00 TMS TZH	17.36	10.2	35	35	39.83	0.03397												

\* - For DYNO HP = 0.00  
Ref To FRONTAL AREA

TIRE DESCRIPTION		SIZE	RPM	CONSTRUCTION		P L	Y	SM	SIDEWALL MATERIAL	P		OVERLAY		TREAD DEPTH	
YR	COO			YR	COO					TREAD	MATERIAL	L	X	Y	MATERIAL
00	TLP TZA	P205/75R14	800	SBR	2-Steel/2-Polyester	4	BSB	Polyester	2	Nylon	1	10			
00	TM3 TZA	P215/70R15	780	SBR	2-Steel/2-Polyester	4	BSB	Polyester	2	Nylon	1	10			
00	TM5 TZH	215/65R16	778	SBR	2-Steel/1-Polyester	3	BSB	Polyester	1	Nylon	2	08			
00	TMR TZA	P215/65R15	801	SBR	2-Steel/2-Polyester	4	BSB	Polyester	2	Nylon	1	10			

MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER

Engine family: YCRXT0201230  
Evaporative Fam: YCRXE0101G2A

Certificate #:

Model ID	Car Line	California Sales
MSKL52	Caravan 2WD	YES
NSKP52	Caravan LE 2WD	YES
NSKH52	Caravan SE 2WD	YES
MSKL53	Grand Caravan 2WD	YES
NSKP53	Grand Caravan LE 2WD	YES
NSKH53	Grand Caravan SE 2WD	YES
NSHL53	Grand Voyager 2WD	YES
NSHH53	Grand Voyager SE (2WD)	YES
NSYP53	Town & Country LX 2WD	YES
NSYP52	Town & Country SX 2WD	YES
NSHL52	Voyager 2WD	YES
NSHH52	Voyager SE 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  
H=Plymouth  
Y=Chrysler  
D=Dodge AWD  
P=Plymouth AWD  
C=Chrysler AWD

--- Body Code  
NS=Minivan