

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-333
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 medium-duty vehicles:

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

Fuel Type: Compressed Natural Gas (CNG)

Engine Family: TCR5.268C7JK Displacement: 5.2 Liters (318 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Three Way plus Oxidation Catalytic Converter
Heated Oxygen Sensor
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:

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>Non-Methane Organic Gas</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>
5751-8500	50,000	0.117	2.5	0.6	0.011
	120,000	0.167	3.7	0.8	0.016

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

BE IF FURTHER RESOLVED: That, as of the date of this order, the Air Resources Board has not proposed or adopted a RAF for medium-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:

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>Non-Methane Organic Gas</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>
5751-8500	50,000	0.027	1.5	0.3	0.002
	120,000	0.035	1.8	0.4	0.004

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 24th day of November 1995.


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

Manufacturer: Chrysler Corporation Exh Eng Fam: TCR5.268C7JK Evap Fam: TCR5000WYCBA
 All Eng Codes in Eng Fam: CA 49S 50S X AB965
 Std: CA Tier-1 TLEV LEV ULEV X ZEV ; US EPA Tier-1
 Evap Std: 50K N/A Useful Life with R/L In-Use Exh Std: Full In Use Alt In Use X
 Veh Class(es): PC LDT1 LDT2 MDV1 MDV2 MDV3 X 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 X Mfr ADP Other (Specify)
 NMOG Test Procedure: N/A Std Equip X R/L Test Proce: SHED Pt Source
 Hybrid: Type A B C , APU Cycle (e.g., Otto, Diesel, Turbine)
 Engine Configuration: V-8 Displacement: 5.2 Liters 318 Cubic Inches
 Valves per Cylinder: 2 Rated HP: 220 @ 4400 RPM
 Engine: Front X Mid Rear Drive: FWD RWD X 4WD-FT 4WD-PT
 Exhaust ECS (eg., EGR, MFI, TC, CAC): TWC+OC, HO2S, OBD II, 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* (50ST)	AB3L12 AB3L13	A4	6000	S E E A T T A C H E D	56040109	--	52020290
	AB3L12 AB3L13 AB3L52 AB3L53 BR2L62		6500				
	AB3L52 AB3L53		7000				
FA-100 (50ST)	AB3L12 AB3L13		6000		56040109	--	52020290
	AB3L12 AB3L13 AB3L52 AB3L53 BR2L62		6500				
	AB3L52 AB3L53		7000				

Test weights reflect ALVW.

Date Issued: 10/19/95

Revisions: _____

ADJUSTED LOADED VEHICLE WGT

LOADED VEHICLE WEIGHT

MODEL	ENG TRANS	A	MKT	TIRE DESCRIPTION	USE YR	COD	MFG	OPT	COAST	TIRE			COLD CO ELECTRIC DYNO COEFFICIENTS			COAST			TIRE									
										DOWN	*DYNO	PRES	DOWN	*DYNO	PRES	ALYW	TIME	HP	F	R	DOWN	*DYNO	PRES	ALYW	TIME	HP	F	R
AB3L12	ELN	DGT	RW	Y	7500	C	5000	STD	96	TWZ	TZH	13.23	16.4	40	40	13.23	16.4	40	40	15.26	14.6	40	40	6000	15.26	14.6	40	40
								OPT	96	TWT	TZH	13.23	16.4	40	45	13.23	16.4	40	45	15.26	14.6	40	45		15.26	14.6	40	45
AB3L12	ELN	DGT	RW	Y	7500	F	5000	STD	96	TYT	TZH	13.23	16.4	40	40	13.23	16.4	40	40	15.26	14.6	40	40	6000	15.26	14.6	40	40
								OPT	96	TWZ	TZH	13.23	16.4	40	40	13.23	16.4	40	40	15.26	14.6	40	40		15.26	14.6	40	40
AB3L12	ELN	DGT	RW	Y	8500	C	5000	STD	96	TYT	TZH	13.23	16.4	40	45	13.23	16.4	40	45	15.26	14.6	40	45	6500	15.26	14.6	40	45
								OPT	96	TWT	TZH	13.23	16.4	40	40	13.23	16.4	40	40	15.26	14.6	40	40		15.26	14.6	40	40
AB3L12	ELN	DGT	RW	Y	8500	F	5000	STD	96	TWT	TZH	13.23	16.4	40	45	13.23	16.4	40	45	15.26	14.6	40	45	6500	15.26	14.6	40	45
								OPT	96	TWZ	TZH	13.23	16.4	40	40	13.23	16.4	40	40	15.26	14.6	40	40		15.26	14.6	40	40
AB3L13	ELN	DGT	RW	Y	7500	C	5250	STD	96	TYT	TZH	13.73	15.6	40	40	13.73	15.6	40	40	15.26	14.6	40	40	6000	15.26	14.6	40	40
								OPT	96	TWT	TZH	13.73	15.6	40	45	13.73	15.6	40	45	15.26	14.6	40	45		15.26	14.6	40	45
AB3L13	ELN	DGT	RW	Y	7500	F	5250	STD	96	TWT	TZH	13.73	15.6	40	40	13.73	15.6	40	40	15.26	14.6	40	40	6000	15.26	14.6	40	40
								OPT	96	TYT	TZH	13.73	15.6	40	40	13.73	15.6	40	40	15.26	14.6	40	40		15.26	14.6	40	40
AB3L13	ELN	DGT	RW	Y	8500	C	5250	STD	96	TYT	TZH	13.73	15.6	40	45	13.73	15.6	40	45	15.26	14.6	40	45	6500	15.26	14.6	40	45
								OPT	96	TWZ	TZH	13.73	15.6	40	40	13.73	15.6	40	40	15.26	14.6	40	40		15.26	14.6	40	40
AB3L13	ELN	DGT	RW	Y	8500	F	5250	STD	96	TYT	TZH	13.73	15.6	40	40	13.73	15.6	40	40	15.26	14.6	40	40	6500	15.26	14.6	40	40
								OPT	96	TWT	TZH	13.73	15.6	40	45	13.73	15.6	40	45	15.26	14.6	40	45		15.26	14.6	40	45
AB3L52	ELN	DGT	RW	Y	7500	C	5500	STD	96	TWZ	TZH	14.12	15.4	40	40	14.12	15.4	40	40	15.26	14.6	40	40	6500	15.26	14.6	40	40
								OPT	96	TYT	TZH	14.12	15.4	40	45	14.12	15.4	40	45	15.26	14.6	40	40		15.26	14.6	40	40
AB3L52	ELN	DGT	RW	Y	7500	F	5500	STD	96	TWZ	TZH	14.12	15.4	40	40	14.12	15.4	40	40	15.26	14.6	40	40	7000	15.26	14.6	40	40
								OPT	96	TYT	TZH	14.12	15.4	40	45	14.12	15.4	40	45	15.26	14.6	40	40		15.26	14.6	40	40
AB3L52	ELN	DGT	RW	Y	8500	C	5500	STD	96	TYT	TZH	14.12	15.4	40	45	14.12	15.4	40	45	15.26	14.6	40	45	7000	15.26	14.6	40	45
								OPT	96	TWZ	TZH	14.12	15.4	40	40	14.12	15.4	40	40	15.26	14.6	40	40		15.26	14.6	40	40
AB3L52	ELN	DGT	RW	Y	8500	F	5500	STD	96	TYT	TZH	14.12	15.4	40	40	14.12	15.4	40	40	15.26	14.6	40	40	7000	15.26	14.6	40	40
								OPT	96	TWT	TZH	14.12	15.4	40	45	14.12	15.4	40	45	15.26	14.6	40	40		15.26	14.6	40	40
AB3L53	ELN	DGT	RW	Y	7500	C	6000	STD	96	TYT	TZH	14.12	15.4	40	40	14.12	15.4	40	40	15.26	14.6	40	40	6500	15.26	14.6	40	40
								OPT	96	TWT	TZH	14.12	15.4	40	45	14.12	15.4	40	45	15.26	14.6	40	40		15.26	14.6	40	40
AB3L53	ELN	DGT	RW	Y	7500	F	6000	STD	96	TYT	TZH	14.12	15.4	40	40	14.12	15.4	40	40	15.26	14.6	40	40	6500	15.26	14.6	40	40
								OPT	96	TWZ	TZH	14.12	15.4	40	40	14.12	15.4	40	40	15.26	14.6	40	40		15.26	14.6	40	40
AB3L53	ELN	DGT	RW	Y	8500	C	6000	STD	96	TYT	TZH	14.12	15.4	40	45	14.12	15.4	40	45	15.26	14.6	40	45	7000	15.26	14.6	40	45
								OPT	96	TWT	TZH	14.12	15.4	40	40	14.12	15.4	40	40	15.26	14.6	40	40		15.26	14.6	40	40
AB3L53	ELN	DGT	RW	Y	8500	F	6000	STD	96	TYT	TZH	14.12	15.4	40	40	14.12	15.4	40	40	15.26	14.6	40	40	7000	15.26	14.6	40	40
								OPT	96	TWT	TZH	14.12	15.4	40	45	14.12	15.4	40	45	15.26	14.6	40	40		15.26	14.6	40	40

* - For DYNO HP = 0.00
Ref To FRONTAL AREA

ADJUSTED LOADED VEHICLE WGT

LOADED VEHICLE WEIGHT

MODEL	ENG	TRANS	A	MKT	TIRE DESCRIPTION	TIRE USE YR	COD	MFG	OPT	COAST		TIRE		COLD CO ELECTRIC DYNO COEFFICIENTS			COAST		TIRE							
										DOWN	*DYNO	F	R	TARGET A	B	C	DOWN	*DYNO	F	R						
			C	Y	Y	8500	F	6000			HP			1 IS	20 DEG	COEFFS.	LINE 2	IS	50 DEG	WHEN NEEDED)	ALVW	TIME	HP	F	R	
					OPT 96 TWZ TZH					15.26	14.6	40	40								7000	17.04	13.6	40	40	
					OPT 96 TYT TZH					15.26	14.6	40	40													
A83L53	ELN	DGT	RW	Y	STD 96 TWT TZH					15.26	14.6	40	45									17.04	13.6	40	45	
					OPT 96 TWZ TZH					15.26	14.6	40	40													
					OPT 96 TYT TZH					15.26	14.6	40	40													
					STD 96 TWP TZH					13.69	16.1	40	65									6500	16.13	14.1	40	65
					OPT 96 TYD TZA					13.62	16.8	40	40													
					OPT 96 TYH TZA					13.49	16.3	40	40													
					OPT 96 TYN TZA					13.62	16.8	40	40													
					OPT 96 TYP TZA					13.49	16.3	40	40													
					STD 96 TWP TZH					13.69	16.1	40	65									6500	16.13	14.1	40	65
					OPT 96 TYD TZA					13.62	16.8	40	40													
					OPT 96 TYH TZA					13.49	16.3	40	40													
					OPT 96 TYN TZA					13.62	16.8	40	40													
					OPT 96 TYP TZA					13.49	16.3	40	40													

Report Date: 09/14/95
 Time: 10:03:44

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* - For DYNO HP = 0.00
 Ref To FRONTAL AREA

TIRE DESCRIPTION		SIZE	CONSTRUCTION		RPM	TREAD MATERIAL		P L	Y	SW	SIDEWALL MATERIAL	OVERLAY		P L	X 1/32	TREAD DEPTH (IN.)
YR	COD		YR	COD		YR	YR					YR	YR			
96	TWP	TZH	LTX	(A/S)	LT225/75R16-D	709	SBR 3-STEEL/2-POLYESTER	5	BSW	Polyester	2	None	2	None	13	
96	TWT	TZH	XCH4	(A/S)	LT225/75R16-E	710	SBR 3-Steel/2-Polyester	5	BSW	Polyester	2	None	2	None	13	
96	TWZ	TZH	LTX	(A/S)	LT225/75R16-D	709	SBR 3-Steel/2-Polyester	5	BSW	Polyester	2	None	2	None	13	
96	TYD	TZA	WRANGLER	RT/S(A/S)	LT245/75R16-E	683	SBR 2-Steel/2-Polyester	4	BSW	Polyester	2	None	2	None	14	
96	TYH	TZA	WRANGLER	(A/T)	LT245/75R16-E	679	SBR 2-STEEL/2-POLYESTER	4	BSW	Polyester	2	None	2	None	16	
96	TYN	TZA	WRANGLER	RT/S (A/S)	LT245/75R16-E	683	SBR 2-Steel/2-POLYESTER	4	OWL	Polyester	2	None	2	None	14	
96	TYP	TZA	WRANGLER	(A/T)	LT245/75R16-E	679	SBR 2-STEEL/2-POLYESTER	4	OWL	Polyester	2	None	2	None	16	
96	TYT	TZH	XCH4	(A/S)	LT245/75R16-E	680	SBR 2-Steel/2-Polyester	4	BSW	Polyester	2	None	2	None	14	

MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER Engine Family: TCR5.268C7JK Certificate #:
 Evaporative Fam: TCR5000MYCBA

Model ID	Car Line	California Sales
BR2L62	Ram 2500 Pickup 2WD	YES
AB3L12	Ram Van 3500 2WD	YES
AB3L13	Ram Van 3500 2WD	YES
AB3L52	Ram Wagon 3500 2WD	YES
AB3L53	Ram Wagon 3500 2WD	YES

Model Codes

BR 2 L 62
 --- 1st digit: 2nd digit:
 3=Club Cab 1=119" or 139" wb
 6=Regular Cab 2=135" or 155" wb
 3=139" wb Chassis Cab
 4=163" wb Chassis Cab

Price Class
 L=Covers all trim levels
 C=Chassis Cab

Model:
 1=1500 6=1500 4X4
 2=2500 7=2500 4X4
 3=3500 8=3500 4X4

Body Code:
 Ram Pickup
 Ram Club Cab
 Ram Chassis Cab

Model Codes

AB 1 L 11
 --- 1st digit: 2nd digit:
 1=Van 1=109.6" wb
 5=Wagon 2=127.6" wb
 3=127.6" maxi wb

Price Class

Model:
 1=81500
 2=82500
 3=83500

Body Code:
 Vans
 Wagons