

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 24<sup>th</sup> 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	HP	F	R	HP	F	R	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
								OPT	96	TWT	TZH	13.23	16.4	40	45	13.23	16.4	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
								OPT	96	TWZ	TZH	13.23	16.4	40	40	13.23	16.4	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
								OPT	96	TWZ	TZH	13.23	16.4	40	40	13.23	16.4	40	40	15.26	14.6	40	40
AB3L12	ELN	DGT	RW	Y	8500	F	5000	STD	96	TYT	TZH	13.23	16.4	40	45	13.23	16.4	40	45	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
AB3L13	ELN	DGT	RW	Y	7500	C	5250	STD	96	TWT	TZH	13.73	15.6	40	45	13.73	15.6	40	45	15.26	14.6	40	45
								OPT	96	TYT	TZH	13.73	15.6	40	40	13.73	15.6	40	40	15.26	14.6	40	40
AB3L13	ELN	DGT	RW	Y	7500	F	5250	STD	96	TWT	TZH	13.73	15.6	40	45	13.73	15.6	40	45	15.26	14.6	40	45
								OPT	96	TYT	TZH	13.73	15.6	40	40	13.73	15.6	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
								OPT	96	TWZ	TZH	13.73	15.6	40	40	13.73	15.6	40	40	15.26	14.6	40	40
AB3L52	ELN	DGT	RW	Y	7500	C	5500	STD	96	TWZ	TZH	14.12	15.4	40	40	14.12	15.4	40	40	16.29	13.1	40	40
								OPT	96	TYT	TZH	14.12	15.4	40	45	14.12	15.4	40	45	16.29	13.1	40	45
AB3L52	ELN	DGT	RW	Y	7500	C	5500	STD	96	TYT	TZH	14.12	15.4	40	40	14.12	15.4	40	40	16.29	13.1	40	40
								OPT	96	TWZ	TZH	14.12	15.4	40	45	14.12	15.4	40	45	16.29	13.1	40	45
AB3L52	ELN	DGT	RW	Y	8500	C	5500	STD	96	TWZ	TZH	14.12	15.4	40	40	14.12	15.4	40	40	16.29	13.1	40	40
								OPT	96	TYT	TZH	14.12	15.4	40	45	14.12	15.4	40	45	16.29	13.1	40	45
AB3L52	ELN	DGT	RW	Y	8500	F	5500	STD	96	TYT	TZH	14.12	15.4	40	40	14.12	15.4	40	40	16.29	13.1	40	40
								OPT	96	TWZ	TZH	14.12	15.4	40	45	14.12	15.4	40	45	16.29	13.1	40	45
AB3L53	ELN	DGT	RW	Y	7500	C	6000	STD	96	TYT	TZH	15.26	14.6	40	45	15.26	14.6	40	45	17.04	13.6	40	40
								OPT	96	TWZ	TZH	15.26	14.6	40	40	15.26	14.6	40	40	17.04	13.6	40	40
AB3L53	ELN	DGT	RW	Y	7500	F	6000	STD	96	TYT	TZH	15.26	14.6	40	45	15.26	14.6	40	45	17.04	13.6	40	40
								OPT	96	TWZ	TZH	15.26	14.6	40	40	15.26	14.6	40	40	17.04	13.6	40	40
AB3L53	ELN	DGT	RW	Y	8500	C	6000	STD	96	TYT	TZH	15.26	14.6	40	45	15.26	14.6	40	45	17.04	13.6	40	40
								OPT	96	TWZ	TZH	15.26	14.6	40	40	15.26	14.6	40	40	17.04	13.6	40	40

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

/ 10. - TK70 - 400 /

\* - 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		TARGET A	B	C	COLD CO ELECTRIC DYNO COEFFICIENTS			ALVW	COAST		TIRE		
										DOWN	*DYNO HP	F	R				LINE 1 IS 20 DEG	LINE 2 IS 50 DEG	WHEN NEEDED)		DOWN	*DYNO HP	F	R	
					OPT 96 TWZ TZH					15.26	14.6	40	40								17.04	13.6	40	40	
					OPT 96 TYT TZH					15.26	14.6	40	40								17.04	13.6	40	40	
A83L53	ELN	DGT	RW	Y	8500	F	6000			15.26	14.6	40	45								7000	17.04	13.6	40	45
					OPT 96 TWZ TZH					15.26	14.6	40	40									17.04	13.6	40	40
					OPT 96 TYT TZH					15.26	14.6	40	40									17.04	13.6	40	40
BR2L62	ELN	DGT	RW	Y	7500	C	5500			13.69	16.1	40	65								6500	16.13	14.1	40	65
					OPT 96 TYD TZA					13.62	16.8	40	40									16.20	13.3	40	55
					OPT 96 TYH TZA					13.49	16.3	40	40									16.16	14.2	40	55
					OPT 96 TYN TZA					13.62	16.8	40	40									16.20	13.3	40	55
					OPT 96 TYP TZA					13.49	16.3	40	40									16.16	14.2	40	55
BR2L62	ELN	DGT	RW	Y	7500	F	5500			13.69	16.1	40	65								6500	16.13	14.1	40	65
					OPT 96 TYD TZA					13.62	16.8	40	40									16.16	14.2	40	55
					OPT 96 TYH TZA					13.49	16.3	40	40									16.20	13.3	40	55
					OPT 96 TYN TZA					13.62	16.8	40	40									16.16	14.2	40	55
					OPT 96 TYP TZA					13.49	16.3	40	40									16.20	13.3	40	55

Report Date: 09/14/95  
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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 MATERIAL		P L Y	TREAD DEPTH (IN.)	
YR	COD		YR	COD		YR	SW				Y	X		Y	X
96	TWP	TZH	LTX	(A/S)	LT225/75R16-D	709	SBR 3-STEEL/2-POLYESTER	5	BSW	Polyester	2	None	2	13	
96	TWT	TZH	XCH4	(A/S)	LT225/75R16-E	710	SBR 3-Steel/2-Polyester	5	BSW	Polyester	2	None	2	13	
96	TWZ	TZH	LTX	(A/S)	LT225/75R16-D	709	SBR 3-Steel/2-Polyester	5	BSW	Polyester	2	None	2	13	
96	TYD	TZA	WRANGLER RT/S	(A/S)	LT245/75R16-E	683	SBR 2-Steel/2-Polyester	4	BSW	Polyester	2	None	2	14	
96	TYH	TZA	WRANGLER	(A/T)	LT245/75R16-E	679	SBR 2-STEEL/2-POLYESTER	4	BSW	Polyester	2	None	2	16	
96	TYN	TZA	WRANGLER RT/S	(A/S)	LT245/75R16-E	683	SBR 2-Steel/2-POLYESTER	4	OWL	Polyester	2	None	2	14	
96	TYP	TZA	WRANGLER	(A/T)	LT245/75R16-E	679	SBR 2-STEEL/2-POLYESTER	4	OWL	Polyester	2	None	2	16	
96	TYT	TZH	XCH4	(A/S)	LT245/75R16-E	680	SBR 2-Steel/2-Polyester	4	BSW	Polyester	2	None	2	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