Fuels

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-332
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: TCR5.258C7JK 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:

Loaded Vehicle Weight (lbs.)	Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
3751-5750	50,000	0.100	2.2	0.4	0.009
	120,000	0.143	3.2	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 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:

Loaded Vehicle Weight (lbs.)	Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
3751-5750	50,000	0.027	1.1	0.3	0.002
	120,000	0.035	1.3	0.4	0.002

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 7th day of November 1995.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O. # A-9-332
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1996 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Chrysler Corporation Exh Eng Fam: TCR5.258C7JK Evap Fam: TCR5000WYCBA

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_____

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 X MDV3 X MDV4___ MDV5___

Single Cert Std for Multi-Class Eng Fam: MDV2 (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_____ Equiv 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)	AN1L62	A4	5250	SEE ATTACHED	56040109	--	52021071
	AB2L12 AB2L13 AB2L52 BR1L62		5500			--	
	AB2L53		6000				
FA-100 (50ST)	AN1L62		5250		56040109	--	52021071
	AB2L12 AB2L13 AB2L52 BR1L62		5500			--	
	AB2L53		6000			--	

*Test weights reflect ALVW.

Date Issued: 10/19/95

Revisions: _____

TK60-SDS/96

1996
TCR5.258C7JK

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	COLD CO ELECTRIC DYNO COEFFICIENTS TARGET A	B	C	SET A	B	C	ADJUSTED LOADED VEHICLE WGT ALVW	COAST DOWN TIME	*DYNO HP	TIRE PRES F	TIRE PRES R
												LOADED VEHICLE WEIGHT				(LINE 1 IS 20 DEG COEFFS,LINE 2 IS 50 DEG WHEN NEEDED)										
AB2L12	ELN	DGT RW	Y	6400	C	4750	STD	96	TSC	TZA		13.43	16.6	35	35							5500	14.90	15.8	35	35
							OPT	96	TSC	TZH		13.72	16.0	35	35								15.28	15.4	35	35
							OPT	96	TSD	TZA		13.43	16.6	35	35								14.90	15.8	35	35
							OPT	96	TSD	TZH		13.72	16.0	35	35								15.28	15.4	35	35
							OPT	96	TSF	TZA		13.43	16.6	35	35								14.90	15.8	35	35
							OPT	96	TSF	TZH		13.72	16.0	35	35								15.28	15.4	35	35
AB2L12	ELN	DGT RW	Y	6400	F	4750	STD	96	TSC	TZA		13.43	16.6	35	35							5500	14.90	15.8	35	35
							OPT	96	TSC	TZH		13.72	16.0	35	35								15.28	15.4	35	35
							OPT	96	TSD	TZA		13.43	16.6	35	35								14.90	15.8	35	35
							OPT	96	TSD	TZH		13.72	16.0	35	35								15.28	15.4	35	35
							OPT	96	TSF	TZA		13.43	16.6	35	35								14.90	15.8	35	35
							OPT	96	TSF	TZH		13.72	16.0	35	35								15.28	15.4	35	35
AB2L13	ELN	DGT RW	Y	6400	C	5250	STD	96	TSC	TZA		14.34	16.2	35	35							5500	14.90	15.8	35	35
							OPT	96	TSC	TZH		14.74	15.5	35	35								15.28	15.4	35	35
							OPT	96	TSD	TZA		14.34	16.2	35	35								14.90	15.8	35	35
							OPT	96	TSD	TZH		14.74	15.5	35	35								15.28	15.4	35	35
							OPT	96	TSF	TZA		14.34	16.2	35	35								14.90	15.8	35	35
							OPT	96	TSF	TZH		14.74	15.5	35	35								15.28	15.4	35	35
AB2L13	ELN	DGT RW	Y	6400	F	5250	STD	96	TSC	TZA		14.34	16.2	35	35							5500	14.90	15.8	35	35
							OPT	96	TSC	TZH		14.74	15.5	35	35								15.28	15.4	35	35
							OPT	96	TSD	TZA		14.34	16.2	35	35								14.90	15.8	35	35
							OPT	96	TSD	TZH		14.74	15.5	35	35								15.28	15.4	35	35
							OPT	96	TSF	TZA		14.34	16.2	35	35								14.90	15.8	35	35
							OPT	96	TSF	TZH		14.74	15.5	35	35								15.28	15.4	35	35
AB2L52	ELN	DGT RW	Y	6400	C	5250	STD	96	TSC	TZA		14.34	16.2	35	35							5500	14.90	15.8	35	35
							OPT	96	TSC	TZH		14.74	15.5	35	35								15.28	15.4	35	35
							OPT	96	TSD	TZA		14.34	16.2	35	35								14.90	15.8	35	35
							OPT	96	TSD	TZH		14.74	15.5	35	35								15.28	15.4	35	35
							OPT	96	TSF	TZA		14.34	16.2	35	35								14.90	15.8	35	35
							OPT	96	TSF	TZH		14.74	15.5	35	35								15.28	15.4	35	35
AB2L52	ELN	DGT RW	Y	6400	F	5250	STD	96	TSC	TZA		14.34	16.2	35	35							5500	14.90	15.8	35	35
							OPT	96	TSC	TZH		14.74	15.5	35	35								15.28	15.4	35	35
							OPT	96	TSD	TZA		14.34	16.2	35	35								14.90	15.8	35	35
							OPT	96	TSD	TZH		14.74	15.5	35	35								15.28	15.4	35	35
							OPT	96	TSF	TZA		14.34	16.2	35	35								14.90	15.8	35	35
							OPT	96	TSF	TZH		14.74	15.5	35	35								15.28	15.4	35	35
AB2L53	ELN	DGT RW	Y	6400	C	5500	STD	96	TSC	TZA		14.82	16.2	35	35							6000	15.86	15.4	35	35
							OPT	96	TSC	TZH		15.27	15.5	35	35								16.29	14.9	35	35
							OPT	96	TSD	TZA		14.82	16.2	35	35								15.86	15.4	35	35
							OPT	96	TSD	TZH		15.27	15.5	35	35								16.29	14.9	35	35
							OPT	96	TSF	TZA		14.82	16.2	35	35								15.86	15.4	35	35
							OPT	96	TSF	TZH		15.27	15.5	35	35								16.29	14.9	35	35
AB2L53	ELN	DGT RW	Y	6400	F	5500	STD	96	TSC	TZA		14.82	16.2	35	35							6000	15.86	15.4	35	35

* - For DYNO HP = 0.00
Ref To FRONTAL AREA

/ 10. - TK60 - 400 /

Report Date: 09/14/95
Time: 10:03:04

1996
TCR5.258C7JK

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: COLD CO ELECTRIC DYNO COEFFICIENTS TARGET A B C SET A B C (LINE 1 IS 20 DEG COEFFS,LINE 2 IS 50 DEG WHEN NEEDED)	ADJUSTED LOADED VEHICLE WGT: ALVW	COAST DOWN TIME	*DYNO HP	TIRE PRES F	TIRE PRES R
							OPT	96	TSC	TZH		15.27	15.5	35	35			16.29	14.9	35	35
							OPT	96	TSD	TZA		14.82	16.2	35	35			15.86	15.4	35	35
							OPT	96	TSD	TZH		15.27	15.5	35	35			16.29	14.9	35	35
							OPT	96	TSF	TZA		14.82	16.2	35	35			15.86	15.4	35	35
							OPT	96	TSF	TZH		15.27	15.5	35	35			16.29	14.9	35	35
AN1L62	ELN	DGT	RW	Y	6260	C 4500	STD	96	TMK	TZH		14.60	13.7	35	35		5250	16.03	12.0	30	35
AN1L62	ELN	DGT	RW	Y	6260	F 4500	STD	96	TMK	TZH		14.60	13.7	35	35		5250	16.03	12.0	30	35
BR1L62	ELN	DGT	RW	Y	6400	C 5250	STD	96	TRY	TZA		15.14	16.0	35	35		5500	15.67	15.5	35	35
							OPT	96	TYF	TZA		15.14	16.0	35	35			15.67	15.5	35	35
							OPT	96	TYG	TZA		15.14	16.0	35	35			15.67	15.5	35	35
BR1L62	ELN	DGT	RW	Y	6400	F 5250	STD	96	TRY	TZA		15.14	16.0	35	35		5500	15.67	15.5	35	35
							OPT	96	TYF	TZA		15.14	16.0	35	35			15.67	15.5	35	35
							OPT	96	TYG	TZA		15.14	16.0	35	35			15.67	15.5	35	35

* - For DYNO HP = 0.00
Ref To FRONTAL AREA

/ 10. - TK60 - 401 /

Report Date: 09/14/95
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1996
TCR5.258C7JK

Chrysler Corporation
FAMILY TIRE DESCRIPTION

ATTACHMENT TO SDS
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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	TMK	TZH		XCH4	(A/S)	LT215/75R15-D	752	SBR	2-STEEL/2-POLYESTER	4	BSW	Polyester	2	None		11
96	TRY	TZA		WRANGLER AP	(A/S)	P225/75R16-XL	711	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None		11
96	TSC	TZA		INVICTA-GL	(A/S)	P235/75R15-XL	724	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	Nylon	1	10
96	TSC	TZH		XW4	(A/S)	P235/75R15-XL	720	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None		10
96	TSD	TZA		INVICTA-GL	(A/S)	P235/75R15-XL	724	SBR	2-Steel/2-Polyester	4	WSW	Polyester	2	Nylon	1	10
96	TSD	TZH		XW4	(A/S)	P235/75R15-XL	720	SBR	2-Steel/2-Polyester	4	WSW	Polyester	2	None		10
96	TSF	TZA		INVICTA-GL	(A/S)	P235/75R15-XL	724	SBR	2-Steel/2-Polyester	4	OWL	Polyester	2	Nylon	1	10
96	TSF	TZH		XW4	(A/S)	P235/75R15-XL	720	SBR	2-Steel/2-Polyester	4	OWL	Polyester	2	None		10
96	TYF	TZA		WRANGLER AP	(A/S)	P245/75R16	687	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None		12
96	TYG	TZA		WRANGLER AP	(A/S)	P245/75R16	687	SBR	2-Steel/2-Polyester	4	OWL	Polyester	2	None		12

Report Date: 09/14/95
Time: 10:03:04

MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER

Engine Family: TCR5.258C7JK
Evaporative Fam: TCR5000WYCBA

Certificate #:

Model ID	Car Line	California Sales
AN1L62	Dakota Pickup 2WD	YES
BR1L62	Ram 1500 Pickup 2WD	YES
AB2L12	Ram Van 2500 2WD	YES
AB2L13	Ram Van 2500 2WD	YES
AB2L52	Ram Wagon 2500 2WD	YES
AB2L53	Ram Wagon 2500 2WD	YES

Model Codes
BR 2 L 62

--- 1st digit:
3=Club Cab
6=Regular Cab

2nd digit:
1=119" or 139" wb
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:
1=Van
5=Wagon

2nd digit:
1=109.6" wb
2=127.6" wb
3=127.6" maxi wb

------ Price Class

-------- Model:
1=B1500
2=B2500
3=B3500

---------- Body Code:
Vans
Wagons

Model Codes
AN 1 L 31

--- 1st digit:
3=Club Cab
6=Regular Cab

2nd digit:
1=119" or 130.9" wb
2=123.9" wb

------ Price Class

-------- Model:
1=2 wheel drive
5=4 wheel drive

---------- Body Code:
Dakota Pickup