State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-428
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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Chrysler Corporation exhaust emission control systems are certified as described below for medium-duty vehicles:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: XCRXA0360H31 Displacement: 5.9 Liters (360 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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:

Test Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
3751-5750	50,000	0.160	4.4	0.4	0.018	12.5
	120,000	0.230	6.4	0.6	0.027	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 1999 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

Test Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
3751-5750	50,000	0.146	3.1	0.3	0.002	9.2
	120,000	0.186	4.2	0.4	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 medium-duty vehicle phase-in 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" (Title 13, California Code of Regulations, Section 1960.1(h)(2)).

BE IT FURTHER RESOLVED: That under the submitted medium-duty vehicle phase-in compliance plan, if the manufacturer incurs "Vehicle Equivalent Debits" for the aforementioned model year due to the manufacturer's failure to produce and deliver for sale in California the equivalent quantity of medium-duty vehicles certified to low-emission vehicle and/or ultra-low-emission vehicle exhaust emission standards required by the above-referenced standards and test procedures, all "Vehicle Equivalent Debits" incurred 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 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.).

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.

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 8th day of July 1998.

R. B. Summerfield, Chief
Mobile Source Operations Division

E.O. # A-9-428
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1999 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS. LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Chrysler Corporation Exh Eng Fam: XCRXA0360H31 Evap Fam: XCRXE0174G3H & G4H

All Eng Codes in Eng Fam: CA X 49S ____ 50S ____ AB965 ____ ORVR: YES ____ NO X

Exh Std: CA Tier-1 ____ TLEV ____ LEV X ULEV ____ SULEV ____ : US EPA Tier-1 ____

Veh Class(es): PC ____ LDT1 ____ LDT2 ____ MDV1 ____ MDV2 X MDV3 ____ 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 X Diesel ____
CNG ____ LNG ____ LPG ____ M85 ____ Other (specify) ____

Emis Test Fuel(s): Indo ____ CBG X 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 X

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 X

Engine Configuration: V-8 Displacement: 5.9 Liters 360 Cubic Inches

Valves per Cylinder: 2 Rated HP: 235 @ 4000 RPM

Engine: Front X Mid ____ Rear ____ Drive: FWD ____ RWD X 4WD-FT ____ 4WD-PT X

Exhaust ECS (eg., EGR, MFI, TC, CAC): HO2S(2), TWC, SFI, OBD II
(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 RiHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalyst Converter Part No.
CA-100 (CA)	AB1L12 AB1L13 AB1X12	A4	5500	SEE	56040144AA 56040144AB	--	52103531AA
CA-200 (CA)	BE1L31 BE1L32 BE1L33 BR1L61 BR1L62		5500	ATTACH	56040151AA 56040151AB		52103224AA
CA-300 (CA)	BR6L61 BR6L62		5500	MENT	56040151AA 56040151AB		

Date Issued: 6/29/98

Revisions: ____

TJ06-SDS/99

MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER

Engine Family: XCRXA0360H31
Evaporative Fam: XCRXE0174G3H

Certificate #:

Model ID	Car Line	California Sales
BE1L31	Ram 1500 Pickup 2WD	YES
BE1L33	Ram 1500 Pickup 2WD	YES
BR1L61	Ram 1500 Pickup 2WD	YES
BR6L61	Ram 1500 Pickup 4WD	YES

Model Codes
BE 8 L 34

-- 1st digit: 3=Club Cab
2nd digit:
1=139" wb w/2 Doors
2=155" wb w/2 Doors
3=139" wb w/4 Doors
4=155" wb w/4 Doors

----- Price Class
L=Covers all trim levels

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

---------- Body Code:
Ram Club Cab

Model Codes
BR 2 L 62

-- 1st digit: 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
5=135" wb Chassis Cab

----- Price Class
L=Covers all trim levels

------- 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

1999
XCRXA0360H31

Chrysler Corporation
Family Tire Usage

MODEL	ENG	TRANS	A C	GVW	MKT TYPE	LVW ETW	TIRE DESCRIPTION USE	YR	COD	MFG	OPT	LOADED VEHICLE WEIGHT: COAST DOWN TIME	*DYNO HP	TIRE PRES F	TIRE PRES R	TARGET (LINE 1 IS 20 DEG COEFFS, LINE 2 IS 50 DEG WHEN NEEDED)	COLD CO ELECTRIC DYNO COEFFICIENTS A	B	C	SET A	B	C	ADJUSTED LOADED VEHICLE WGT: ALVW ETW	COAST DOWN TIME	*DYNO HP	TIRE PRES F	TIRE PRES R
AB1L12	EML	DGT	RW Y	6600	C	5000	STD	99	TSC	TZH		13.83	17.3	35	35	50.56		0.04608					5500	14.93	16.3	35	35
																53.24		0.04189									
							OPT	99	TSD	TZH		13.83	17.3	35	35	58.56		0.04608									
																53.24		0.04189						14.93	16.3	35	35
							OPT	99	TSF	TZA		13.99	17.3	35	35	60.27		0.04450									
																54.79		0.04045						14.77	16.4	35	35
							OPT	99	TW9	TZA		12.97	16.5	35	35	69.22		0.04450									
																62.93		0.04045						13.68	14.7	35	35
AB1L13	EML	DGT	RW Y	6600	C	5000	STD	99	TSC	TZH		13.83	17.3	35	35	58.56		0.04608					5500	14.93	16.3	35	35
																53.24		0.04189									
							OPT	99	TSD	TZH		13.83	17.3	35	35	58.56		0.04608									
																53.24		0.04189						14.93	16.3	35	35
							OPT	99	TSF	TZA		13.99	17.3	35	35	60.27		0.04450									
																54.79		0.04045						14.77	16.4	35	35
							OPT	99	TW9	TZA		12.97	16.5	35	35	69.22		0.04450									
																62.93		0.04045						13.68	14.7	35	35
AB1X12	EML	DGT	RW Y	6600	C	5000	STD	99	TSC	TZH		13.83	17.3	35	35	58.56		0.04608					5500	14.77	16.4	35	35
																53.24		0.04189									
							OPT	99	TSD	TZH		13.83	17.3	35	35	58.56		0.04608									
																53.24		0.04189						14.93	16.3	35	35
							OPT	99	TSF	TZA		13.99	17.3	35	35	60.27		0.04450									
																54.79		0.04045						14.77	16.4	35	35
							OPT	99	TW9	TZA		12.97	16.5	35	35	69.22		0.04450									
																62.93		0.04045						13.68	14.7	35	35
BE1L31	EML	DGT	RW Y	6400	C	5250	STD	99	TR8	TZA		15.70	14.0	35	35	54.69		0.04271					5500	16.23	13.3	35	35
																49.71		0.03883									
							OPT	99	TYU	TZA		15.93	13.8	35	35	47.74		0.04456									
																43.40		0.04051						16.20	13.6	35	35
							OPT	99	TYV	TZH		16.19	14.0	35	35	48.93		0.04269									
																44.48		0.04051						16.68	13.0	35	35
BE1L32	EML	DGT	RW Y	6400	C	5250	STD	99	TR8	TZA		15.70	14.0	35	35	54.69		0.04271					5500	16.23	13.3	35	35
																49.71		0.03883									
							OPT	99	TYU	TZA		15.93	13.8	35	35	47.74		0.04456									
																43.40		0.04051						16.20	13.6	35	35
							OPT	99	TYV	TZH		16.19	14.0	35	35	48.93		0.04269									
																44.48		0.03881						16.68	13.0	35	35
BE1L33	EML	DGT	RW Y	6400	C	5250	STD	99	TR8	TZA		15.70	14.0	35	35	54.69		0.04271					5500	16.23	13.3	35	35
																49.71		0.03883									
							OPT	99	TYU	TZA		15.93	13.8	35	35	47.74		0.04456									
																43.40		0.04051						16.20	13.6	35	35
							OPT	99	TYV	TZH		16.19	14.0	35	35	48.93		0.04269									
																44.48		0.03881						16.68	13.0	35	35
BR1L61	EML	DGT	RW Y	6400	C	4750	STD	99	TR8	TZA		14.67	14.2	35	35	49.37		0.04271					5500	16.23	13.3	35	35
																44.88		0.03883									

* - For DYNO HP = 0.00
Ref To FRONTAL AREA

/ 10. - TJ06 - 400 /

Report Date: 06/29/98

Chrysler Corporation
Family Tire Usage

MODEL	ENG	TRANS	A C	GVW	MKT TYPE	LVW ETW	TIRE DESCRIPTION USE	YR	COD	MFG	OPT	COAST DOWN TIME	*DYNO HP	TIRE PRES F	TIRE PRES R	LOADED VEHICLE WEIGHT — TARGET (LINE 1 IS 20 DEG COEFFS, LINE 2 IS 50 DEG WHEN NEEDED)	COLD CO ELECTRIC DYNO COEFFICIENTS A	B	C	SET A	B	C	ADJUSTED LOADED VEHICLE WGT ALVW ETW	COAST DOWN TIME	*DYNO HP	TIRE PRES F	TIRE PRES R
							OPT	99	TYU	TZA		14.83	14.0	35	35	43.09		0.04456						16.20	13.6	35	35
																39.17		0.04051									
							OPT	99	TYV	TZH		15.09	14.0	35	35	44.17		0.04269						16.68	13.0	35	35
																40.16		0.03881									
BR1L62	EML	DGT	RW Y	6400	C	5000	STD	99	TR8	TZA		15.30	14.3	35	35	50.80		0.04271					5500	16.23	13.3	35	35
																46.18		0.03883									
							OPT	99	TYU	TZA		15.48	14.1	35	35	44.34		0.04456						16.20	13.6	35	35
																40.31		0.04051									
							OPT	99	TYV	TZH		15.75	14.2	35	35	45.46		0.04269						16.68	13.0	35	35
																41.33		0.03881									
BR6L61	EML	DGT	4W Y	6400	C	5250	STD	99	TR8	TZA		13.80	15.8	35	35	70.24		0.04555					5500	13.69	15.4	35	35
																63.86		0.04141									
							OPT	99	TXW	TZA		13.58	16.1	35	35	60.09		0.05066						13.59	15.6	35	35
																54.63		0.04605									
							OPT	99	TYU	TZA		14.17	15.3	35	35	58.47		0.04795						14.17	14.8	35	35
																53.15		0.04359									
							OPT	99	TYV	TZH		14.23	15.5	35	35	55.96		0.04864						14.26	14.7	35	35
																50.87		0.04422									
							OPT	99	TYX	TZA		12.97	15.7	35	35	66.89		0.05169						12.94	14.8	35	35
																60.81		0.04699									
							OPT	99	TYZ	TZA		12.97	15.7	35	35	66.89		0.05169						12.94	14.8	35	35
																60.81		0.04699									
BR6L62	EML	DGT	4W Y	6400	C	5250	STD	99	TR8	TZA		13.80	15.8	35	35	70.24		0.04555					5500	13.69	15.4	35	35
																63.86		0.04141									
							OPT	99	TXW	TZA		13.58	16.1	35	35	60.09		0.05066						13.59	15.6	35	35
																54.63		0.04605									
							OPT	99	TYU	TZA		14.17	15.3	35	35	58.47		0.04795						14.17	14.8	35	35
																53.15		0.04359									
							OPT	99	TYV	TZH		14.23	15.5	35	35	55.96		0.04864						14.26	14.7	35	35
																50.97		0.04422									
							OPT	99	TYX	TZA		12.97	15.7	35	35	66.89		0.05169						12.94	14.8	35	35
																60.81		0.04699									
							OPT	99	TYZ	TZA		12.97	15.7	35	35	66.89		0.05169						12.94	14.8	35	35
																60.81		0.04699									

* - For DYNO HP = 0.00
Ref To FRONTAL AREA

Chrysler Corporation
FAMILY TIRE DESCRIPTION

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
99	TR8	TZA		WRANGLER APC		P225/75R16-XL	716	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None	0	12
99	TSC	TZH		XW4	(A/S)	P235/75R15-XL	720	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None	0	10
99	TSD	TZH		XW4	(A/S)	P235/75R15-XL	720	SBR	2-Steel/2-Polyester	4	WSW	Polyester	2	None	0	10
99	TSF	TZA		INVICTA-GL	(A/S)	P235/75R15-XL	724	SBR	2-Steel/2-Polyester	4	OWL	Polyester	2	None	0	10
99	TW9	TZA		WRANGLER AT	(A/S)	LT235/75R15-D	716	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None	0	13
99	TXW	TZA		WRANGLER RTS	(A/T)	P265/75R16	660	SBR	2-Steel/2-Polyester	4	OWL	Polyester	2	None	0	15
99	TYU	TZA		WRANGLER APC		P245/75R16	689	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None	0	12
99	TYV	TZH		LTX A/S		P245/75R16	691	SBR	2-Steel/2-Polyester	4	OWL	Polyester	2	None	0	10
99	TYX	TZA		WRANGLER RTS	(A/S)	P245/75R16	692	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None	0	13
99	TYZ	TZA		WRANGLER RTS	(A/S)	P245/75R16	692	SBR	2-Steel/2-Polyester	4	OWL	Polyester	2	None	0	13

Report Date: 06/29/98
Time: 14:56:03

MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER

Engine Family: XCRXA0360H31
Evaporative Fam: XCRXE0174G4H

Certificate #:

Model ID	Car Line	California Sales
BE1L32	Ram 1500 Pickup 2WD	YES
BR1L62	Ram 1500 Pickup 2WD	YES
BR6L62	Ram 1500 Pickup 4WD	YES
AB1L12	Ram Van 1500 2WD	YES
AB1L13	Ram Van 1500 2WD	YES
AB1X12	Ram Van 1500 2WD	YES

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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
|  |         L=Low Line
|  |         X=Premium
|  |
|  ------- Model:
|            1=B1500
|            2=B2500
|            3=B3500
|
---------- Body Code:
             Vans
             Wagons
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Model Codes
BE 8 L  34
|  | |  |
|  | |  --- 1st digit:    2nd digit:
|  | |        3=Club Cab    1=139" wb w/2 Doors
|  | |                      2=155" wb w/2 Doors
|  | |                      3=139" wb w/4 Doors
|  | |                      4=155" wb w/4 Doors
|  | |
|  | ------ Price Class
|  |          L=Covers all trim levels
|  |
|  -------- Model:
|             1=1500    6=1500 4X4
|             2=2500    7=2500 4X4
|             3=3500    8=3500 4X4
|
----------- Body Code:
              Ram Club Cab
```

```
Model Codes
BR 2 L  62
|  | |  |
|  | |  -- 1st digit:    2nd digit:
|  | |      6=Regular Cab 1=119" or 139" wb
|  | |                    2=135" or 155" wb
|  | |                    3=139" wb Chassis Cab
|  | |                    4=163" wb Chassis Cab
|  | |                    5=135" 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
```