

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:

<u>Test Weight</u> <u>(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	0.160	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:

<u>Test Weight</u> <u>(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	0.146	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

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 _____ Equip 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): HQ2S(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 Rt HP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalyst Converter Part No.
CA-100 (CA)	AB1L12 AB1L13 AB1X12	A4	5500	S E E	56040144AA 56040144AB	--	52103531AA
CA-200 (CA)	BE1L31 BE1L32 BE1L33 BR1L61 BR1L62		5500	A T T A C H M E N T	56040151AA 56040151AB		52103224AA
CA-300 (CA)	BR6L61 BR6L62		5500		56040151AA 56040151AB		

Date Issued: 6/29/98

Revisions: _____
TJ06-S05/99

MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER Engine Family: XCRXA0360H31 Certificate #:
Evaporative Fam: XCRXE0174G3H

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: 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

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
XCRKA01601131

Chrysler Corporation
Family Tire Usage

Attachment to SDS Pg. 1 of 5
of Executive Order # A-9-428

LOADED VEHICLE WEIGHT

ADJUSTED LOADED VEHICLE WGT

MODEL	ENC TRANS	A	MKT	LVM	TIRE	DESCRIPTION	USE	YR	COD	MFG	OPT	COAST	DOWN	TIME	HP	F	R	TIRE	PRES	COLD CO ELECTRIC DYNO COEFFICIENTS			ALVM	DOWN	COAST	TIRE	PRES
																				SET A	SET B	SET C					
AB1L12	EML	DGT	RW	Y	6600	C	5000	STD	99	TSC	TZH	13.93	17.3	17.3	35	35	35	50.56	0.04608	0.04189	0.04608	5500	14.93	16.3	35	35	
								OPT	99	TSD	TZH	13.83	17.3	17.3	35	35	35	53.24	0.04608	0.04189	0.04608		14.93	16.3	35	35	
								OPT	99	TSP	TZA	13.99	17.3	17.3	35	35	35	53.24	0.04189	0.04450	0.04450		14.77	16.4	35	35	
								OPT	99	TW9	TZA	12.97	16.5	16.5	35	35	35	54.79	0.04045	0.04450	0.04045		13.60	14.7	35	35	
AB1L13	EML	DGT	RW	Y	6600	C	5000	STD	99	TSC	TZH	13.83	17.3	17.3	35	35	35	62.93	0.04608	0.04189	0.04608	5500	14.93	16.3	35	35	
								OPT	99	TSD	TZH	13.83	17.3	17.3	35	35	35	53.24	0.04608	0.04189	0.04608		14.93	16.3	35	35	
								OPT	99	TSP	TZA	13.99	17.3	17.3	35	35	35	53.24	0.04189	0.04450	0.04450		14.77	16.4	35	35	
								OPT	99	TW9	TZA	12.97	16.5	16.5	35	35	35	54.79	0.04045	0.04450	0.04045		13.60	14.7	35	35	
AB1K12	EML	DGT	RW	Y	6600	C	5000	STD	99	TSC	TZH	13.83	17.3	17.3	35	35	35	62.93	0.04045	0.04608	0.04045	5500	14.77	16.4	35	35	
								OPT	99	TSD	TZH	13.83	17.3	17.3	35	35	35	53.24	0.04189	0.04608	0.04608		14.93	16.3	35	35	
								OPT	99	TSP	TZA	13.99	17.3	17.3	35	35	35	53.24	0.04189	0.04450	0.04450		14.77	16.4	35	35	
								OPT	99	TW9	TZA	12.97	16.5	16.5	35	35	35	54.79	0.04045	0.04450	0.04045		13.60	14.7	35	35	
BE1L31	EML	DGT	RW	Y	6400	C	5250	STD	99	TR8	TZA	15.70	14.0	14.0	35	35	35	54.69	0.04271	0.03883	0.04045	5500	16.23	13.3	35	35	
								OPT	99	TYU	TZA	15.93	13.8	13.8	35	35	35	49.71	0.04456	0.03883	0.04271		16.20	13.6	35	35	
								OPT	99	TYV	TZH	16.19	14.0	14.0	35	35	35	48.93	0.04051	0.04269	0.04269		16.60	13.0	35	35	
BE1L32	EML	DGT	RW	Y	6400	C	5250	STD	99	TR8	TZA	15.70	14.0	14.0	35	35	35	54.69	0.04271	0.03883	0.04045	5500	16.23	13.3	35	35	
								OPT	99	TYU	TZA	15.93	13.8	13.8	35	35	35	49.71	0.04456	0.03883	0.04271		16.20	13.6	35	35	
								OPT	99	TYV	TZH	16.19	14.0	14.0	35	35	35	48.93	0.04051	0.04269	0.04269		16.60	13.0	35	35	
BE1L33	EML	DGT	RW	Y	6400	C	5250	STD	99	TR8	TZA	15.70	14.0	14.0	35	35	35	54.69	0.04271	0.03883	0.04045	5500	16.23	13.3	35	35	
								OPT	99	TYU	TZA	15.93	13.8	13.8	35	35	35	49.71	0.04456	0.03883	0.04271		16.20	13.6	35	35	
								OPT	99	TYV	TZH	16.19	14.0	14.0	35	35	35	48.93	0.04051	0.04269	0.04269		16.60	13.0	35	35	
BR1L61	EML	DGT	RW	Y	6400	C	4750	STD	99	TR8	TZA	14.67	14.2	14.2	35	35	35	49.37	0.04271	0.03883	0.04045	5500	16.23	13.3	35	35	
								OPT	99	TYU	TZA	15.93	13.8	13.8	35	35	35	49.71	0.04456	0.03883	0.04271		16.20	13.6	35	35	
								OPT	99	TYV	TZH	16.19	14.0	14.0	35	35	35	48.93	0.04051	0.04269	0.04269		16.60	13.0	35	35	

* - For DYNO HP - 0.00
REF TO FRONTAL AREA

Chrysler Corporation
Family Tire Usage

ADJUSTED LOADED VEHICLE WGT

LOADED VEHICLE WEIGHT

MODEL	ENG TRANS	A	MKT	LW	TIRE DESCRIPTION	TIRE USE YR	COD	MFG	OPT	COAST DOWN	*DYNO HP	PRES F	R	ALVM ETW	COAST DOWN TIME	*DYNO HP	PRES F	R	ELECTRIC DYNO COEFFICIENTS			C	
																			SET A	SET B	SET C		
													COLD COEFFS, LINE 2 IS 50 DEG WHEN NEEDED)										
													TARGET A	TARGET B	TARGET C								
													(LINE 1 IS 20 DEG)										
					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				16.60	13.0	35	35	
														40.16	0.03881								
BR1L62	EML DGT 4W Y 6400	C	5000	C	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	C	STD 99 TR8 TZA					13.80	15.8	35	35	70.74	0.04555				5500	13.69	15.4	35	35
														63.86	0.04141								
					OPT 99 TWM 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	C	STD 99 TR8 TZA					13.80	15.8	35	35	70.74	0.04555				5500	13.69	15.4	35	35
														63.86	0.04141								
					OPT 99 TWM 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								

• For DYNO HP = 0.00
Ref to FRONTAL AREA

/ 10. - TJ06 - 401 /

1999
KCRXA0360H11

Chrysler Corporation
FAMILY TIRE DESCRIPTION

Attachment to SDS Pg 3 of 5
of Executive Order # A-9-428

TIRE DESCRIPTION YR COD MFG OPT NAME	SIZE	RPM	COD	TREAD MATERIAL	CONSTRUCTION	P		L		SM	SIDEWALL MATERIAL	P		L		OVERLAY MATERIAL	Y	1/32	TREAD DEPT (IN.)	L	X	
						Y	SM	Y	SM			Y	SM	Y	SM							
99 TR8 TZA	WRANGLER APC	P225/75R16-XL	716	SBR 2-Steel/2-Polyester	4 BSM Polyester	2	None	0	12			2	None	0	12							
99 TSC TZH	XW4	P235/75R15-XL	720	SBR 2-Steel/2-Polyester	4 BSM Polyester	2	None	0	10			2	None	0	10							
99 TSD TZH	XW4	P235/75R15-XL	720	SBR 2-Steel/2-Polyester	4 MSM Polyester	2	None	0	10			2	None	0	10							
99 TSF TZA	INVICTA-GL	P235/75R15-XL	724	SBR 2-Steel/2-Polyester	4 OML Polyester	2	None	0	10			2	None	0	10							
99 TW9 TZA	WRANGLER AT	LT235/75R15-D	716	SBR 2-Steel/2-Polyester	4 BSM Polyester	2	None	0	11			2	None	0	11							
99 TAW TZA	WRANGLER RTS	P265/75R16	660	SBR 2-Steel/2-Polyester	4 OML Polyester	2	None	0	15			2	None	0	15							
99 TYU TZA	WRANGLER APC	P245/75R16	689	SBR 2-Steel/2-Polyester	4 BSM Polyester	2	None	0	12			2	None	0	12							
99 TYV TZH	LTX A/S	P245/75R16	691	SBR 2-Steel/2-Polyester	4 OML Polyester	2	None	0	10			2	None	0	10							
99 TYX TZA	WRANGLER RTS	P245/75R16	692	SBR 2-Steel/2-Polyester	4 BSM Polyester	2	None	0	13			2	None	0	13							
99 TYZ TZA	WRANGLER RTS	P245/75R16	692	SBR 2-Steel/2-Polyester	4 OML Polyester	2	None	0	13			2	None	0	13							

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

Model Codes	Model Codes	Model Codes
AB 1 L 11	BE 8 L 34	BR 2 L 62
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=82500 3=B3500 Body Code: Vans Wagons	1st digit: 2nd digit: 3=Club Cab 1=139" wb w/2 Doors 1=139" 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	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