

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-374  
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 1998 model-year Chrysler Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: WCRXT0242220 Displacement: 4.0 Liters (242 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Warm Up Oxidation Catalytic Converter
- 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) TLEV certification exhaust emission standards for this engine family in grams per mile are:

<u>Loaded Vehicle Weight (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	0.7	0.018	12.5
	100,000	0.200	5.5	0.9	0.023	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for NMOG reflect application of a 0.98 RAF for 1998 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

<u>Loaded Vehicle Weight (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	0.059	0.8	0.2	0.002	2.5
	100,000	0.064	1.0	0.3	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 fleet average NMOG exhaust mass emission 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."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits 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."

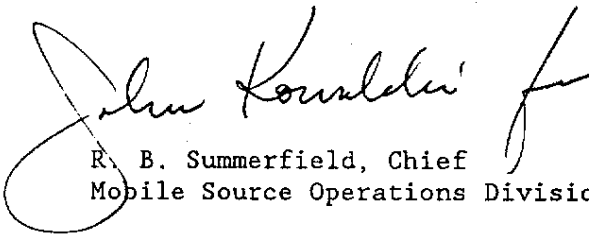
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

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 26<sup>th</sup> day of June 1997.

  
R. B. Summerfield, Chief  
Mobile Source Operations Division

1998 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

E.O. # A-9-374  
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Manufacturer: Chrysler Corporation Exh Eng Fam: WCRXT0242220 Evap Fam: WCRXE0101G2S  
 All Eng Codes in Eng Fam: CA X 49S        50S        AB96S        ORVR: YES        NO X  
 Exh Std: CA Tier-1        TLEV X LEV        ULEV        SOLEV       ; US EPA Tier-1         
 Veh Class(es): PC        LDT1        LDT2 X MDV1        MDV2        MDV3        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 X Diesel         
                   CNG        LNG        LPG        M85        Other (specify)         
 Exh. 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: I-6 Displacement:        / 4.0 Liters        / 242 Cubic Inches  
 Valves per Cylinder: 2 Rated HP: 181/185/190 \* @ 4600 RPM  
 Engine: Front X Mid        Rear        Drive: FWD        RWD X 4WD-FT X 4WD-PT         
 Exhaust ECS (eg., EGR, MFI, TC, CAC): WUOC, TWC, H02S(2), OBD II, SPI  
 (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 RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalyst Converter Part No.
CA-100 (CA)	ZJTL74	A4	4000	S	56044514AB	None	52018935
	ZJUL74		4250	E			52101401AB
CA-300 (CA)	XJUL72	A4	3750	A	56041537AB		52019435
	XJUL74		3875	T			52101401AB
	XJUL74			A			
CA-500 (CA)	XJUL74		3875	C			
CA-700 (CA)	TJUL77	A3	3750	E	56041623AB		52019435
				D			52020064AC
CM-100 (CA)	XJUL74	M5	3750		56041532AB		52019435
CM-300 (CA)	TJUL77		3750		56041624AB		52101401AB
							52019435
							52020064AC

Date Issued: 4-8-97

Revisions: 6-24-97 - Correction of NMOG test procedure.

\* XJ-190-HP / ZJ-185-HP / TJ-181-HP

VEHICLE MODELS/CARLINE

Engine Family: WCRXT0242220  
Evaporative Family: WCRXE0101G2S  
Exhaust Control System: WUOC, TWC, HO2S(2), OBD II, SFI  
Evap. Control System: Canister  
Engine Displacement: 4.0L

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Carline	Model Code
Jeep® Wrangler 4WD	TJL77
Jeep® Cherokee 4WD	XJL72, XJL74, XJL74 -
Jeep® Grand Cherokee 4WD	ZJL74
Jeep® Grand Cherokee 2WD	ZJL74

REPORT DATE: 4-8-97

ATTACHMENT TO SDS PAGE 1  
OF EXECUTIVE ORDER A-9-374

1998  
WCRXT0242220

Chrysler Corporation  
Family Tire Usage

LOADED VEHICLE WEIGHT

MODEL	ENG	TRANS	A C	MKT GVW	LVW TYPE	LWV ETW	TIRE DESCRIPTION	COAST DOWN	TIRE PRES	COLD CO TARGET A	ELECTRIC B	DYNO C	COEFFICIENTS SET A	B	C
TJJL77	ERH	DDQ	4A	Y	4450	C	3750	STD 98 TMS TZA	11.05	16.0	33	33			
								OPT 98 TMS TZA VKO	11.51	15.2	33	33			
								OPT 98 TMW TZA	11.05	16.0	33	33			
								OPT 98 TMW TZA VKO	11.51	15.2	33	33			
								OPT 98 TRN TZA	10.90	16.1	33	33			
								OPT 98 TRN TZA VKO	11.28	15.4	33	33			
TJJL77	ERH	DDQ	4B	Y	4450	C	3750	STD 98 TMS TZA	11.05	16.0	33	33			
								OPT 98 TMS TZA VKO	11.51	15.2	33	33			
								OPT 98 TMW TZA	11.05	16.0	33	33			
								OPT 98 TMW TZA VKO	11.51	15.2	33	33			
								OPT 98 TRN TZA	10.90	16.1	33	33			
								OPT 98 TRN TZA VKO	11.28	15.4	33	33			
								OPT 98 TUS TZA	10.62	16.1	33	33			
								OPT 98 TUS TZA VKO	10.93	15.7	33	33			
TJJL77	ERH	DGQ	4W	Y	4450	C	3750	STD 98 TMS TZA	10.64	16.0	33	33			
								OPT 98 TMS TZA VKO	11.06	15.3	33	33			
								OPT 98 TMW TZA	10.64	16.0	33	33			
								OPT 98 TMW TZA VKO	11.06	15.3	33	33			
								OPT 98 TRN TZA	10.50	16.1	33	33			
								OPT 98 TRN TZA VKO	10.85	15.4	33	33			
								OPT 98 TUS TZA	10.24	16.1	33	33			
								OPT 98 TUS TZA VKO	10.53	15.8	33	33			
XJJL72	ERH	DGS	4A	Y	4850	C	3750	STD 98 TM6 TZA	12.05	13.7	33	33			
								OPT 98 TRL TZA	11.99	13.6	33	33			
XJJL72	ERH	DGS	4W	Y	4850	C	3750	STD 98 TM6 TZA	12.05	13.7	33	33			
								OPT 98 TRL TZA	11.99	13.6	33	33			
XJJL74	ERH	DDQ	4A	Y	4900	C	3750	STD 98 TM6 TZA	12.51	13.6	33	33			
								OPT 98 TRL TZA	12.45	13.5	33	33			
XJJL74	ERH	DGS	4A	Y	4900	C	3875	STD 98 TM6 TZA	12.41	13.7	33	33			
								OPT 98 TRL TZA	12.35	13.6	33	33			
								OPT 98 TRV TZA	11.92	13.9	33	33			
XJJL74	ERH	DGS	4P	Y	4900	C	3875	STD 98 TRC TZA	11.86	14.1	33	33			
								OPT 98 TRL TZA	12.35	13.6	33	33			
XJJL74	ERH	DGS	4W	Y	4900	C	3875	STD 98 TM6 TZA	12.41	13.7	33	33			
								OPT 98 TRL TZA	12.35	13.6	33	33			
								OPT 98 TRV TZA	11.92	13.9	33	33			
XJUL74	ERH	DGS	4W	Y	4900	C	3875	STD 98 TM6 TZA	12.41	13.7	33	33			
								OPT 98 TRL TZA	12.35	13.6	33	33			
ZJJL74	ERH	DGK	4A	Y	5300	C	4250	STD 98 TM6 TZA	14.22	12.8	36	36			
								OPT 98 TRD TZA	13.80	12.6	36	36			
								OPT 98 TRH TZA	13.92	12.5	36	36			
								OPT 98 TRL TZA	14.38	12.4	36	36			
								OPT 98 TRP TZA	13.80	12.6	36	36			

REPORT DATE: 4-8-97

CAR-374

ATTACHMENT TO SDS PAGE 1  
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1998  
WCRXT0242220

Chrysler Corporation  
Family Tire Usage

LOADED VEHICLE WEIGHT

MODEL	ENG	TRANS	A C	MKT GVW	LVW TYPE	ETW	TIRE DESCRIPTION USE YR COD MFG OPT	COAST DOWN	*DYNO HP	TIRE PRES F R	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)			-----		
ZJJL74	ERH	DGK	4B	Y	5300	C	4250	OPT 98 TRT TZA	13.92	12.7	36 36	60.16	0.03699	35.76	-0.7408	0.04188	
								OPT 98 TYR TZA	13.46	12.6	36 36						
								STD 98 TM6 TZA	14.22	12.8	33 33						
								OPT 98 TRD TZA	13.80	12.6	36 36						
								OPT 98 TRH TZA	13.92	12.5	36 36						
								OPT 98 TRL TZA	14.38	12.4	36 36						
								OPT 98 TRP TZA	13.80	12.6	36 36						
ZJTL74	ERH	DGK	RW	Y	5000	C	4000	OPT 98 TRT TZA	13.92	12.7	36 36	60.16	0.03699	35.76	-0.7408	0.04188	
								OPT 98 TYR TZA	13.46	12.6	36 36						
								STD 98 TM6 TZA	14.40	11.8	36 36						
								OPT 98 TRD TZA	13.72	11.6	36 36						
								OPT 98 TRH TZA	13.75	11.9	36 36						
								OPT 98 TRL TZA	13.93	12.3	36 36						
								OPT 98 TRP TZA	13.72	11.6	36 36						
OPT 98 TRT TZA	14.08	11.9	36 36														

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