

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-358  
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 1997 model-year Chrysler Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: VCR24228G1EK Displacement: 4.0 Liters (242 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Heated Oxygen Sensors (two)  
Three Way Catalytic Converter  
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The 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 Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
3751-5750	50,000	0.32	4.4	0.7	12.5
	100,000	0.40	5.5	0.97	n/a

The 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 Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
3751-5750	50,000	0.09	1.9	0.3	5.7
	100,000	0.09	2.0	0.36	n/a

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 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 non-methane organic gas (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 50,000-mile evaporative emission standards applicable to 1980 through 1994 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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

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 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 11<sup>th</sup> day of July 1996.



*per* R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1997 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

E.O. # A-9-358  
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Manufacturer: Chrysler Corporation Exh Eng Fam: VCR24228G1EK Evap Fam: VCR1049AYPON  
 All Eng Codes in Eng Fam: CA X 49S \_\_\_\_\_ 50S \_\_\_\_\_ AB965 \_\_\_\_\_  
 Exh Std: CA Tier-1 X TLEV \_\_\_\_\_ LEV \_\_\_\_\_ ULEV \_\_\_\_\_ ZEV \_\_\_\_\_; US EPA Tier-1 \_\_\_\_\_  
 Evap Std: 50K X Useful Life with R/L \_\_\_\_\_ In-Use Exh Std: Full In Use X Alt In Use \_\_\_\_\_  
 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) \_\_\_\_\_  
 Emis Test Fuel(s): Indo \_\_\_\_\_ Ph2 X CNG \_\_\_\_\_ 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 X Std \_\_\_\_\_ Equiv \_\_\_\_\_ R/L Test Proce: SHED \_\_\_\_\_ Pt Source \_\_\_\_\_  
 Hybrid: Type A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_, APU Cycle (e.g., Otto, Diesel, Turbine) \_\_\_\_\_  
 Engine Configuration: I-6 Displacement: \_\_\_\_\_ / 4.0 Liters \_\_\_\_\_ / 242 Cubic Inches  
 Valves per Cylinder: 2 Rated HP: \_\_\_\_\_ 181 & 190 @ 4600 & 4600 RPM  
 Engine: Front X Mid \_\_\_\_\_ Rear \_\_\_\_\_ Drive: FWD \_\_\_\_\_ RWD \_\_\_\_\_ 4WD-FT X 4WD-PT X  
 Exhaust ECS (eg., EGR, MFI, TC, CAC): TWC, H02S(2), 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 (CA)	XJL72 XJL74 XJL74	A4	3750 3875	S E E A T T A C H E D	56041277	None	52022019
CA-400 (CA)	TJL77	A3	3750		56041338		52020064
CA-500 (CA)	XJL72 XJL74	A4	3750		56041280		52022019
CH-100 (CA)	XJL74	M5	3750		56041274		
CH-400 (CA)	TJL77		3750		56041312		52020064

Date Issued: 04-23-96

Revisions: \_\_\_\_\_

VEHICLE MODELS/CARLINE

Engine Family: VCR24228G1EK  
Evaporative Family: VCR1049AYPON  
Exhaust Control System: TWC, H02S(2), OBD II, SFI  
Evap. Control System: Canister  
Engine Displacement: 4.0L

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Carline	Model Code
Jeep® Cherokee 4WD	XJL72, XJL74, XJL74
Jeep® Wrangler 4WD	TJL77

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REPORT DATE: 04-23-96

ATTACHMENT TO SDS PAGE 1  
OF EXECUTIVE ORDER A-9-358

1997  
VCR24228G1EK

Chrysler Corporation  
Family Tire Usage

LOADED VEHICLE WEIGHT

MODEL	ENG	TRANS	A	MKT	GVW	TYPE	TIRE DESCRIPTION	COAST	DOWN	*DYNO	TIRE	COLD CO ELECTRIC DYNO COEFFICIENTS			
												TARGET	A	B	C
TJJL77	ERH	DDQ	4C	N	4360	C	3750	STD 97 TMS TZA	11.93	15.2	33 33				
								OPT 97 TMS TZA VKO	12.35	14.5	33 33				
								OPT 97 TMW TZA	11.93	15.2	33 33				
								OPT 97 TMW TZA VKO	12.35	14.5	33 33				
								OPT 97 TPN TZA	11.93	15.2	33 33				
								OPT 97 TPN TZA VKO	12.35	14.5	33 33				
								OPT 97 TRN TZA	11.60	15.2	33 33				
								OPT 97 TRN TZA VKO	12.00	14.5	33 33				
								OPT 97 TUS TZA	11.18	15.7	33 33	51.82	0.04858	31.47	-0.7080 0.05292
								OPT 97 TUS TZA VKO	11.55	15.0	33 33				
TJJL77	ERH	DGG	4A	N	4360	C	3750	STD 97 TMS TZA	11.16	15.2	33 33				
								OPT 97 TMS TZA VKO	11.52	14.5	33 33				
								OPT 97 TMW TZA	11.16	15.2	33 33				
								OPT 97 TMW TZA VKO	11.52	14.5	33 33				
								OPT 97 TPN TZA	11.16	15.2	33 33				
								OPT 97 TPN TZA VKO	11.52	14.5	33 33				
								OPT 97 TRN TZA	10.86	15.2	33 33				
								OPT 97 TRN TZA VKO	11.21	14.5	33 33				
								OPT 97 TUS TZA	10.50	15.8	33 33	63.35	0.04858	58.68	-1.3806 0.05891
								OPT 97 TUS TZA VKO	10.82	15.1	33 33				
XJJL72	ERH	DGS	4A	Y	4850	C	3750	STD 97 TRL TZA	12.20	14.0	33 33				
								OPT 97 TM6 TZA	11.92	14.4	33 33				
								OPT 97 TRV TZA	11.13	13.5	33 33				
XJJL72	ERH	DGS	4P	Y	4850	C	3750	STD 97 TRC TZA	11.72	14.6	33 33				
XJJL72	ERH	DGS	4W	Y	4850	C	3750	STD 97 TRL TZA	12.20	14.0	33 33				
								OPT 97 TM6 TZA	11.92	14.4	33 33				
								OPT 97 TRV TZA	11.13	13.5	33 33				
XJJL74	ERH	DDQ	4A	Y	4900	C	3750	STD 97 TRL TZA	12.67	13.9	33 33				
								OPT 97 TM6 TZA	12.37	14.3	33 33				
								OPT 97 TRV TZA	11.53	13.4	33 33				
XJJL74	ERH	DGS	4A	Y	4900	C	3750	STD 97 TRL TZA	12.20	14.0	33 33				
								OPT 97 TM6 TZA	11.92	14.4	33 33				
								OPT 97 TRV TZA	11.13	13.5	33 33				
XJJL74	ERH	DGS	4P	Y	4900	C	3750	STD 97 TRC TZA	11.72	14.6	33 33				
XJJL74	ERH	DGS	4W	Y	4900	C	3750	STD 97 TRL TZA	12.20	14.0	33 33				
								OPT 97 TM6 TZA	11.92	14.4	33 33				
								OPT 97 TRV TZA	11.13	13.5	33 33				
XJUL74	ERH	DGS	4W	Y	4900	C	3875	STD 97 TRL TZA	12.53	14.0	33 33				
								OPT 97 TM6 TZA	12.23	14.4	33 33				

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