

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-359-A  
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: VCR36028G1EK Displacement: 5.2 Liters (318 Cubic Inches)  
5.9 Liters (360 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	0.21	2.8	0.2	7.7
	100,000	0.22	3.2	0.25	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 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 "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 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 2<sup>nd</sup> day of July 1996.



*for* 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

Manufacturer: Chrysler Corporation Exh Eng Fam: VCR36028G1EK Evap Fam: VCR1073AYP0B(5.9L ZJ) / VCR1090AYP0B (5.2L AN)

All Eng Codes in Eng Fam: CA X 49S      50S      AB975     

Exh Std: CA Tier-1 X TLEV      LEV      ULEV      ZEV     ; US EPA Tier-1 X

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      Equip      R/L Test Proce: SHED      Pt Source     

Hybrid: Type A      B      C     , APU Cycle (e.g., Otto, Diesel, Turbine) Otto

Engine Configuration: V-8 Displacement: 5.2/5.9 Liters 318/360 Cubic Inches

Valves per Cylinder: 2 Rated HP: 215/230 @ 4000 RPM

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

Exhaust ECS (eg., EGR, MFI, TC, CAC): TWC, SFI, HO2S(2), OBD II  
(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-500 (CA)	ZJJL74	A4	4500	S E E  A T T A C H M E N T	56028097		52019482
CM-100	AN1L61	M5	4000		56040132	52019300	
	AN1L62		4250				
CM-200	AN5L61	AN5L31	4000		52019325 52103077		
	AN5L62		4250				
	AN5L31						

Date Issued: 5/15/96

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

Attachment to SDS pg 1 of 6  
of Executive Order A-9-359-A

Chrysler Corporation  
Family Tire Usage

1997  
VCR3602801EK

ADJUSTED LOADED VEHICLE WT

LOADED VEHICLE WEIGHT

MODEL	ENG	TRANS	A	MKT	TIRE DESCRIPTION	TIRE USE YR	COD	MFG	OPT	COAST	DYNO			ELECTRIC DYNO COEFFICIENTS			COAST			TIRE												
											HP	F	R	SET A	SET B	SET C	DOWN	TIME	HP	F	R	DOWN	TIME	HP	F	R	DOWN	TIME	HP	F	R	
ANTL31	ELF	DDC	RW	Y	5330	C	4250	STD	97	TMD	TZA	14.89	13.5	35	35	14.89	13.5	35	35	14.89	13.5	35	35	14.89	13.5	35	35	14.89	13.5	35	35	
					OPT	97	TPF	TZA	14.87	14.2	38	35	13.79	14.5	35	35	13.45	14.4	35	35	13.88	13.7	35	35	13.88	13.7	35	35	13.76	14.4	35	35
					OPT	97	TSH	TZA	13.45	14.4	35	35	13.88	13.7	35	35	13.76	14.4	35	35	12.89	14.7	35	35	12.70	14.7	35	35	14.08	13.5	35	35
					OPT	97	TMD	TZA	14.08	13.5	35	35	13.10	14.4	35	35	12.80	14.4	35	35	14.39	13.4	35	35	14.39	13.4	35	35	14.39	13.4	35	35
					OPT	97	TSH	TZA	14.39	13.4	35	35	14.16	14.1	35	35	13.31	14.4	35	35	12.88	14.4	35	35	13.22	13.6	35	35	13.03	14.5	35	35
					OPT	97	TPF	TZA	13.03	14.5	35	35	12.31	14.8	35	35	12.03	14.8	35	35	13.45	13.7	35	35	13.45	13.7	35	35	13.45	13.7	35	35
					OPT	97	TSH	TZA	12.31	14.8	35	35	12.50	14.7	35	35	12.22	14.7	35	35	14.39	13.4	35	35	14.39	13.4	35	35	14.39	13.4	35	35
					OPT	97	TMD	TZA	14.39	13.4	35	35	14.16	14.1	35	35	13.31	14.4	35	35	12.99	14.4	35	35	13.22	13.8	35	35	13.03	14.5	35	35
					OPT	97	TPF	TZA	13.03	14.5	35	35	12.03	14.8	35	35	12.31	14.8	35	35	13.45	13.7	35	35	13.45	13.7	35	35	13.45	13.7	35	35
					OPT	97	TSH	TZA	12.31	14.8	35	35	13.45	13.7	35	35	13.45	13.7	35	35	12.50	14.7	35	35	12.50	14.7	35	35	12.50	14.7	35	35
					OPT	97	TMD	TZA	12.50	14.7	35	35	14.20	15.6	35	35																

Report Date: 06/01/96  
Time: 14:56:55

/ ID: T003 - 400 /

\* - For DYNO HP = 0.00  
Ref To FRONTAL AREA

Attachment to SDS pg 2 of 6  
of Executive Order A-9-359-A

Chrysler Corporation  
Family Tire Usage

1997  
YCR3802801EK

ADJUSTED LOADED VEHICLE WGT

LOADED VEHICLE WEIGHT

MODEL	ENG	TRANS	A	MKT	TYRE DESCRIPTION	COAST DOWN	*DYNO HP	TIRE PRES F R	TARGET A B C	COLD CO ELECTRIC DYNO COEFFICIENTS	COAST DOWN	*DYNO HP	TIRE PRES F R
END	TYPE	C	QVW	TYPE	USE YR CDB AFG OPT	TIME	HP	F R	(LINE 1 IS 20 DEG COEFFS, LINE 2 IS 50 DEG WHEN NEEDED)	SET A B C	ALVM	TIME	HP
					OPT 97 T81 TZA	13.67	15.8	35 35					
					OPT 97 T82 TZA	13.87	16.8	35 35					
					OPT 97 T83 TZA	13.16	16.1	35 35					
ANS131	ELF	DGT	4W	Y 5590	C 4500	STD 97 TMD TZA	13.21	15.7	35 35				
					OPT 97 T81 TZA	12.76	16.1	35 35					
					OPT 97 T82 TZA	12.75	16.1	35 35					
					OPT 97 T83 TZA	12.31	16.5	35 35					
ANS131	ELF	DGT	4W	Y 5590	C 4500	STD 97 TMD TZA	13.40	15.7	35 35	45.20	-1.8105	0.08041	
					OPT 97 T81 TZA	12.83	16.0	35 35					
					OPT 97 T82 TZA	12.83	16.0	35 35					
					OPT 97 T83 TZA	12.47	16.4	35 35					
ANS181	ELF	DGT	4W	Y 5350	C 4250	STD 97 TMD TZA	13.52	15.6	35 35				
					OPT 97 T81 TZA	13.63	15.8	35 35					
					OPT 97 T82 TZA	13.02	15.9	35 35					
					OPT 97 T83 TZA	12.53	16.3	35 35					
ANS181	ELF	DGT	4W	Y 5350	C 4250	STD 97 TMD TZA	12.54	16.7	35 35				
					OPT 97 T81 TZA	12.63	16.0	35 35					
					OPT 97 T82 TZA	12.10	18.0	35 35					
					OPT 97 T83 TZA	11.88	16.4	35 35					
ANS181	ELF	DGT	4W	Y 5350	C 4250	STD 97 TMD TZA	12.72	15.6	35 35				
					OPT 97 T81 TZA	12.27	18.0	35 35					
					OPT 97 T82 TZA	12.27	18.0	35 35					
					OPT 97 T83 TZA	11.84	18.4	35 35					
ANS182	ELF	DGT	4W	Y 5400	C 4250	STD 97 TMD TZA	13.52	15.6	35 35				
					OPT 97 T81 TZA	13.83	15.8	35 35					
					OPT 97 T82 TZA	13.02	15.9	35 35					
					OPT 97 T83 TZA	13.02	15.9	35 35					
ANS182	ELF	DGT	4W	Y 5400	C 4500	STD 97 TMD TZA	12.53	18.3	35 35				
					OPT 97 T81 TZA	13.21	16.7	35 35					
					OPT 97 T82 TZA	13.31	16.0	35 35					
					OPT 97 T83 TZA	12.75	18.1	35 35					
ANS182	ELF	DGT	4W	Y 5400	C 4500	STD 97 TMD TZA	12.76	18.1	35 35				
					OPT 97 T81 TZA	12.31	16.5	35 35					
					OPT 97 T82 TZA	13.40	15.7	35 35					
					OPT 97 T83 TZA	12.83	16.0	35 35					
ZJK174	ELF	DGT	4W	Y 5500	C 4500	STD 97 TMD TZA	12.47	16.4	35 35				
					OPT 97 T81 TZA	14.19	13.8	38 38					
					OPT 97 T82 TZA	13.57	13.6	38 38					
					OPT 97 T83 TZA	13.48	14.3	38 38					
					OPT 97 TRM TZA	13.59	13.5	38 38					

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Time: 14:56:55

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\* - For DYNO HP = 0.00  
Ref To FRONTAL AREA

Attachment to SDS pg 3 of 6  
of Executive Order A-9-359-A

Chrysler Corporation  
Family Fire Usage

1997  
VCR3602601EX

ADJUSTED LOADED VEHICLE WGT

LOADED VEHICLE WEIGHT

MODEL	ENG	TRANS	A	MKT	C	QVW	TYPE	LWV	TIRE DESCRIPTION	USE	YR	COD	MFG	OPT	COAST		TIRE		ELECTRIC DYNO COEFFICIENTS			COAST		TIRE				
															DOWN	TIME	HP	F	R	HP	F	R	TARGET A	B	C	DOWN	TIME	HP
									OPT 97 TR7 TZA						13.78	13.8	13.8	36	36	SET A	B	C	ALYW	TIME	HP	F	R	
									OPT 97 TYR TZA						13.71	12.9	36	36										
ZJL74	ENL	DDW	4W	Y	B500			4500	ST9 97 TMB TZA						14.19	13.6	36	36										
									OPT 97 TRD TZA						13.57	13.6	36	36										
									OPT 97 TRH TZA						13.46	14.3	36	36										
									OPT 97 TRN TZA						13.59	13.5	36	36										
									OPT 97 TR7 TZA						13.78	13.8	38	36										
									OPT 97 TYR TZA						13.71	12.9	36	36										
									STD 97 TMB TZA						13.65	13.5	36	36										
ZJL74	ELF	DDW	RW	Y	5150			4250	OPT 97 TRD TZA						13.09	13.5	36	36										
									OPT 97 TRH TZA						13.68	14.1	36	36										
									OPT 97 TRN TZA						13.11	13.4	36	36										
									OPT 97 TR7 TZA						13.28	13.7	36	36										
									OPT 97 TYR TZA						13.22	12.8	36	36										

\* - For DYNO HP = 0.00  
Ref To FRONTAL AREA

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Report Date: 05/01/96  
Time: 14:56:55

Attachment to SDS pg 4 of 6  
of Executive Order A-9-359-A

Chrysler Corporation  
FAMILY TIRE DESCRIPTION

1997  
YCR3802BR1EK

TIRE DESCRIPTION TR COD MFG OPT NAME	SIZE	CONSTRUCTION	RPM	COD	TREAD MATERIAL	P		L		SIDEWALL MATERIAL	P		I		OVERLAY MATERIAL	TREAD DEPTH	
						Y	SW	Y	X		Y	X	Y	X		Y	X
97 TMO TZA	WRANGLER AP (A/S)	P215/75R15	752	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None	2	None	0	10			
97 TMD TZA	INVICTA GL (A/S)	P215/75R15	755	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None	2	None	0	10			
97 TME TZA	INVICTA GL (A/S)	P215/75R15	755	SBR	2-Steel/2-Polyester	4	OHL	Polyester	2	None	2	None	0	10			
97 TPF TZA	INVICTA GL (A/S)	P205/75R15	770	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None	2	None	0	10			
97 TRD TZA	WRANGLER HP (A/S)	P225/70R16	730	SBR	2-Steel/2-Polyester	4	OHL	Polyester	2	None	2	None	0	10			
97 TRH TZA	EAGLE LS (A/S)	P225/70R16	734	SBR	2-Steel/2-Polyester	4	OHL	Polyester	2	None	2	None	0	10			
97 TRM TZA	WRANGLER GSA (A/T)	P225/75R15	734	SBR	2-Steel/2-Polyester	4	OHL	Polyester	2	None	2	None	0	13			
97 TRT TZA	WRANGLER AP (A/S)	P225/75R15	735	SBR	2-Steel/2-Polyester	4	OHL	Polyester	2	None	2	None	0	10			
97 TS1 TZA	WRANGLER RYS (A/T)	P235/75R15	719	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None	2	None	0	13			
97 TS2 TZA	WRANGLER RYS (A/T)	P235/75R15-XL	719	SBR	2-Steel/2-Polyester	4	BSW	Polyester	2	None	2	None	0	13			
97 TSH TZA	EAGLE LS (A/S)	P235/70R15	745	SBR	2-Steel/2-Polyester	4	OHL	Polyester	2	None	2	None	0	10			
97 TUT TZA	WRANGLER GSA (A/T)	J1X10.5R15L1	584	SBR	2-Steel/2-Polyester	4	OHL	Polyester	2	None	2	None	0	13			
97 TTR TZA	WRANGLER GSA (A/T)	P245/70R15	728	SBR	2-Steel/2-Polyester	4	OHL	Polyester	2	None	2	None	0	13			

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Time: 14:56:55

/ 10. - IQ03 - 403 /



Attachment to SDS pg 5 of 6  
of Executive Order A-9-359-A

MODELS COVERED BY CERTIFICATE

Engine Family: VCR602801EK  
Evaporative Fam: VCR1073AYPB

Vehicle MFR: CHRYSLER

Certificate #:

California  
Sales  
YES

Car Line  
Grand Cherokee 4WD

Model ID  
ZJL74

Model Codes  
KJ J L 74

Body Style  
72=2 door  
74=4 door  
77=open

Trim Level  
L=Covers all trim levels

Steering and Drive Line  
R=Right Hand Steering, 2 wd-rear  
U=Right Hand Steering, 4 wd  
J=Left Hand Steering, 4 wd  
I=Left Hand Steering, 2 wd-rear

Car line  
K=Cherokee  
Y=Wrangler  
Z=Grand Cherokee

Attachment to SDS pg 6 of 6  
of Executive Order A-9-359-A

MODELS COVERED BY CERTIFICATE

Vehicle MFR: CHRYSLER  
Engine Family: YCR36DZ8G1EK  
Evaporative Fam: YCR1D90AYP08  
Certificate #:

Model ID	Car Line	California Sales
AN1L31	Dakota Pickup 2WD	YES
AN1L61	Dakota Pickup 2WD	YES
AN1L62	Dakota Pickup 2WD	YES
AN5L31	Dakota Pickup 4WD	YES
AN5L61	Dakota Pickup 4WD	YES
AN5L62	Dakota Pickup 4WD	YES

Model Codes  
 AM 1 L 31  
 1st digit: 3-Club Cab  
 2nd digit: 1-118" or 130.9" wb  
 3-Club Cab  
 6-Regular Cab 2-123.9" wb  
 Price Class  
 Model:  
 1-2 wheel drive  
 5-4 wheel drive  
 Body Code:  
 Dakota Pickup