

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-172
Relating to Certification of New Motor Vehicles

CHRYSLER MOTORS 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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1988 model-year Chrysler Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks and medium-duty vehicles:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
JCR3.9T5HFK6	239 (3.9)	Air Injection-Pump Exhaust Gas Recirculation Three-Way Catalyst Heated Oxygen Sensor (Electronic Fuel Injection) (On-Board Diagnostics)

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

The following are the emission standards for this engine family:

<u>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
4000-5999	0.50	9.0	1.0

The following are the certification emission values for this engine family:

<u>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
4000-5999	0.16	3.8	0.8

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered 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" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models (also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) 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 regulations (Title 13, California Administrative Code, 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 18th day of March, 1987.



K. D. Drachand, Chief
Mobile Source Division

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR3.9T5HFK6
 Evaporative Family JCRTD Engine Type V/6
 Liters (CID) 3.9 (239)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 ECU-Electronic Control Unit
 EI-Electronic Ignition
 ESAC-Electronic Spark Advance Control
 VA-Vacuum Advance
 VR-Vacuum Retard

Exhaust Emissions Control System

AIP-Air Injection-Pump
 AIV-Air Injection-Valve
 DBC-Dual Bed Catalyst
 EGR-Exhaust Gas Recirculation
 EIC-Electronic Injection Control
 EM-Engine Modification
 OC-Oxidation Catalyst
 OS-Oxygen Sensor
 HOS-Heated Oxygen Sensor
 SPL-Smoke Puff Limiter or Throttle Delay
 TOC-Trap Oxidizer, Continual
 TOP-Trap Oxidizer, Periodical
 TWC-Three-Way Catalyst
 WUOC-Warm-Up Oxidation Catalyst
 WUTWC-Warm-Up Three-Way Catalyt

Special Features

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection or Throttle Body Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 EFI-Electronic Fuel Injection
 IC-Intercooler or Aftercooler
 MFI-Mechanical Fuel Injection
 OBD-On-Board Diagnostics
 TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI
 nV-nVenturi Carburetor

VEHICLE MODELS:

CARLINE

D1L61, D1L62
 D2L62

DODGE D100/D150 PICKUP
 DODGE D250 PICKUP

B1E51, B1L51,
 B1L52, B2L52

DODGE B150/B250 WAGON

B1L11, B1L12
 B2L11, B2L12
 B2L13

DODGE B150/B250 VAN

N5L61, N5L62

DODGE DAKOTA PICKUP

Engine: Front X Mid. Rear

Drive: FWD RWD X 4WD Full Time 4WD Part Time X

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Passenger Cars _____ Light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR3.9T5HFK6

Liter (CID) 3.9 (239) Eng. Type V/6

Emission Control Sys. (Special Features) AIP,EGR,TWC,HOS,(EFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System THROTTLE BODY Part No.	EGR Valve Part No.	Catalyst Part No.
M-3	B1L11,B2L11, B1L12,B2L12	M5	4000**	4379378	4418504	4287152	4218402
			4250				
	B2L13,B1E5L,B1L5L		4500**				
	B1L52, B2L52		4750				
M-4	D1L61,D1L62		4000	4379380 4379526*			4218398

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

of Issue 01-29-87

Revisions:*6-29-87: R.C. 35T, Revise ECU for OBD.
**2-15-88: R.C. 81TC, Production Vehicle Weight Update.

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Passenger Cars _____ Light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____ Page 3

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR3.9T5HFK6

Liter (CID) 3.9 (239) Eng. Type V/6

Emission Control Sys. (Special Features) AIP,EGR,TWC,HOS,(EFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System THROTTLE BODY Part No.	EGR Valve Part No.	Cataly Part No.
A-2 A-8*	N5L61,N5S61+, N5L62++ N5S61+	A3	4000 4250	4379364	4418504	4287156	4218411
A-3 A-9*	B2L11, B1L12,B2L12 B1L11,B2L11, B1L12,B2L12 B2L13,B1E51,B1L51 B2L13 B1L52,B2L52 B1E51,B1L51, B1L52,B2L52	A40D A3 A40D A3 A40D	4500 4750	4379366 4557031+++		4287153	4218402
A-4 A-7*	D1L61 D1L61 D1L62,D2L62 D1L62 D2L62 B1L11,B2L11, B1L12,B2L12 B1L11,B2L11, B1L12,B2L12 B2L13 B2L13	A3 A40D A3 A40D A3 A40D A3 A40D	4000 4250 4500 4250 4500	4379376 4379524** 4557031+++			4218398
A-3 A-9	B1L11++	A3	4000				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

of Issue 01-29-87 Revisions: *6-11-87: R.C. 14TC - Addition of 3.9:1 Axle Ratio.
 REVISED: +++08-21-89. FF33TC. Release '89 ECU for service.
 030186 **06-29-87: R.C. 35T - Revise ECU for OBD.
 ***07-30-87: R.C. 51TC - Addition of Models.
 +08-04-87: R.C. 48TC - Addition of Models.
 ++02-15-88: R.C. 81TC - Production Vehicle Weight Update.

Passenger Cars _____ Light-Duty Trucks Medium-Duty Vehicles Gas Diesel _____ Page 4

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR3.9T5HFK6

Displacement (CID) 3.9 (239) Eng. Type V/6

Emission Control Sys. (Special Features) AIP,EGR,TWC,HOS,(EFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System THROTTLE BODY Part No.	EGR Valve Part No.	Catalytic Part No.	
M-5*	B1L11,B2L11, B1L12,B2L12	M5	4250	4379324 4379338 4379476***	4418504	4287152	4218402	
	B2L13,B1E51		4500					
	B1L51,B1L52, B2L52		4750					
M-4	D1L61,D1L62, D1E61		4000	4379380 4379462***				4218398
	D1E62**		4250					

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date of Issue 01-29-87

Revisions: 04-03-87: R.C. 9TC, Revise ECU WOT base fuel schedule.

**04-03-87: R.C. 16TC, Addition of model.

***04-27-87: R.C. 15T, Revise ECU for On-Board Diagnostics.

Passenger Cars _____ Light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____ Page 5

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR3.9T5HFK6

Liter (CID) 3.9 (239) Eng. Type V/6

Emission Control Sys. (Special Features) AIP,EGR,TWC,HOS,(EFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System THROTTLE BODY Part No.	EGR Valve Part No.	Catal. Part No.
A-5*	N5L61	A3	4000	4379536+ 4379320	4418504	4287156	421841
	N5L62		4250	4379334 4379472***			
A-6*	B1L11,B2L11, B1L12,B2L12	A40D	4500	4379322 4379336 4379474***	4418504	4287153	421840
	B1L11,B2L11, B1L12,B2L12			4379538+			
	B2L13,B1E51	A3	4500	4557031++			
	B2L13	A40D	4750				
	B1L52,B2L52	A3					
	B1E51,B1L51, B1L52,B2L52	A40D					
A-4	D1L61,D1E61**	A3	4000	4379376 4379460*** 4379524+	4418504	4287153	421839
	D1L61,D1E61**	A40D	4250	4557031++			
	D1L62,D2L62 D1E62**	A3					
	D1L62,D1E62**	A40D	4500				
	D2L62						

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

of Issue 01-29-87 Revisions: 04-03-87: R.C. 9TC, Revise ECU WOT base fuel schedule.
 **04-03-87: R.C. 16TC, Addition of models.
 ***04-27-87: R.C. 15T, Revise ECU for On-Board Diagnostics.
 +06-29-87: R.C. 35T, Revise ECU for On-Board Diagnostics.

REVISED: ++08-21-89. FF33TC. Release '89 ECU for service.
 330186

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Passenger Cars _____ Light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____ Page 6

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR3.9T5HFK6

Liter (CID) 3.9 (239) Eng. Type V/6

Emission Control Sys. (Special Features) AIP,EGR,TWC,HOS,(EFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System THROTTLE BODY Part No.	EGR Valve Part No.	Cataly. Part No.
A-8	N5L61	A3	4000	4379510 4379873*	4418504	4287156	4218411
	N5L62		4250				
A-9	B1L11,B2L11, B1L12,B2L12	A40D	4500	4379512	4418504	4287153	4218402
	B1L11,B2L11, B1L12,B2L12						
	B2L13,B1E51	A3					
	B2L13	A40D					
	B1L52,B2L52	A3	4750				
	B1E51,B1L51, B1L52,B2L52	A40D					
A-7	D1L61	A3	4000	4379504	4418504	4287153	4218398
	D1L61	A40D					
	D1L62,D2L62	A3	4250				
	D1L62	A40D					
	D2L62		4500				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date of Issue 6-11-87 Revisions: * 08-21-89. FF33TC. Release '89 ECU for service.

R.C. 14TC: Revise ECU, replace 3.55 axle with 3.90 axle on B1 and D1 models and add N5 model with 3.55 axle.

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Passenger Cars _____ Light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____

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Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR3.9T5HFK6

Liter (CID) 3.9 (239) Eng. Type V/6

Emission Control Sys. (Special Features) AIP,EGR,TWC,HOS,(EFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System THROTTLE BODY	EGR Valve	Cataly
				Part No.	Part No.	Part No.	Part No.
A-14	N5L61	A3	4000	4379616	4418504	4287156	4218411
	N5L62		4250				
A-15	B1L11,B2L11, B1L12,B2L12	A40D	4500	4379618 4557031*		4287153	4218402
	B1L11,B2L11, B1L12,B2L12						
	B2L13,B1E51	A3					
	B2L13	A40D					
	B1L52,B2L52	A3	4750				
	B1E51,B1L51, B1L52,B2L52	A40D					
A-13	D1L61,D1E61	A3	4000	4379610			4218398
	D1L61,D1E61	A40D					
	D1L62,D2L62, D1E62	A3	4250	4557031*			
	D1L62,D1E62	A40D	4500				
	D2L62						

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date of Issue 07-27-87

Revisions: R.C. 41TC; Revise ECU calibration.
*08-21-89. FF33TC; Release '89 ECU for service.

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Passenger Cars Light-Duty Trucks x Medium-Duty Vehicles x Gas x Diesel

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR3.9T5HFK6

Liter (CID) 3.9 (239) Eng. Type V/6

Emission Control Sys. (Special Features) AIP,EGR,TWC,HOS,(EFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System THROTTLE BODY Part No.	EGR Valve Part No.	Catalys Part No.
A-11	N5L61 N5L62	A3	4000 4250	4379598 4379873*	4418504	4287156	4218411
A-12	B1L11,B2L11, B1L12,B2L12 B1L11,B2L11, B1L12,B2L12 B2L13,B1E51 B2L13 B1L52,B2L52 B1E51,B1L51 B1L52,B2L52	A40D A3 A40D A3 A40D	4500 4750	4379602		4287153	4218402
A-10	D1L61 D1L61 D1L62,D2L62 D1L62 D2L62	A3 A40D A3 A40D	4000 4250 4500	4379574			4218398

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date of Issue 07-27-87

Revisions: R.C. 41TC; Revise ECU Calibration.
*08-21-89. FF33TC; Release '89 ECU for service.

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Passenger Cars _____ Light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____ Page 9

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR3.9T5HFK6

Liter (CID) 3.9 (239) Eng. Type V/6

Emission Control Sys. (Special Features) AIP,EGR,TWC,HOS,(EFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System THROTTLE BODY Part No.	EGR Valve Part No.	Cataly Part No.
A-14	N5L61	A3	4000	4379616	4418504	4287156	4218411
	N5L62		4250	4379642			
A-17	B1L11,B2L11, B1L12,B2L12	A3	4500	4379920	4418504	4287153	4218402
	B2L13,B1E51			4379915			
	B1L52,B2L52		4557031*				
	B1L51		4500				
	D1L61,D1E61		4750				
D1L62,D2L62, D1E62	4000	4218398					
	4250						

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date of Issue 08-21-87

Revisions: *08-21-89. FF33TC. Release '89 ECU for service.

R.C. #58TC: Commonize ECU for B&D Models. Add Canister Purge Line Orifice.

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Passenger Cars _____ Light-Duty Trucks X Medium-Duty Vehicles X Gas X Diesel _____

Manufacturer CHRYSLER MOTORS CORPORATION Engine Family JCR3.9T5HFK6

Liter (CID) 3.9 (239) Eng. Type V/6

Emission Control Sys. (Special Features) AIP,EGR,TWC,HOS,(EFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System THROTTLE BODY Part No.	EGR Valve Part No.	Catalys Part No.						
A-11	N5L61 N5L62	A40D	4000 4250	4379598 4379662 4379873**	4418504	4287156	4218411						
A-16	B1L11,B2L11 B1L12,B2L12 B2L13		4500 4750	4379918				4287153	4218402				
	B1E51,B1L51, B1L52,B2L52		4000							4218398			
	D1L61,D1E61		4250										
	D1L62,D1E62		4500										
	A-18*		N5L61 N5L62							4000 4250	4379587 4379873**	4287156	4218411
			A-19*							N5L61 N5L62	A3		

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

of Issue 08-21-87
 R.C. #58TC: Commonize ECU for
 B&D Models. Add Canister Purge
 Line Orifice.

Revisions: *09-04-87: R.C. #60TC. Commonize the ECU
 Calibration for all Automatic Transmission
 'N' Body Models.
 **08-21-89. FF33TC. Release '89 ECU for service.