State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-254-4 Relating to Certification of New Motor Vehicles

HYUNDAI MOTOR COMPANY

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 1989 model-year Hyundai Motor Company emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement <u>Liters (Cubic inches)</u>		Exhaust Emission Control Systems (Special Features)		
KHY1.5V2FCB5	1.5	(89.6)	Air injection — Vaive Exhaust Gas Recirculation Oxygen Sensor No On-Board Diagnostics (Exempted) Three-Way Catalyst (Combustion Chamber Vaive)		

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

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)		
0.41	7.0	0.7		

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

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0 14	2.0	0.2

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx emission

standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

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 vehicle models listed have been granted an exemption from compliance with the requirements of the "Maifunction 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.) and with the 2 year/24,000 mile warranty provisions of Health and Safety Code Section 43204.

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 21 da

day of June, 1988

K. D. Drachand, Chief Mobile Source Division

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

Manufacturer Hyundai Engine Family KHY1.5V2FCB5

Liter (CID) 1.5 (89.6) Eng. Type 4 cyl. In-line

Emission Control Sys. (Special Features) AIV+OS+EGR+TWC (CCV)

		Equiv.	Ign. System		EGR		
Vehicle	Trans.	Test	(ECU)	Fuel System	Valve	Cataly	yst
<u> Model</u>	Туре	Weight	Part No.	Part No.	Part No.	Part 1	No.
						MCC	UCC
Exce1/	M4	2500	39110	30-32DIDEF	28450	28533	28957
Precis			-21420	-412	-21370	-21340	-21325
			or 39110	c	r 28450	or	28957
			-21460		-21380		-21375
	M5	2500	39110	30-32DIDEF	28450	28533	28957
			-21420	-412	-21370	-21340	-21325
			or 39110	c	r 28450	or	28957
			-21460		-21380		-21375
	A3	2500	39110	30-32DIDEF	28450	28533	28957
			-21430	-413	-21370	-21340	-21325
			or 39110	c	r 28450	or	28957
			-21470		-21380		-21375
	Model Excel/	Model Type Excel/ M4 Precis M5	Vehicle Trans. Test Model Type Weight Excel/ M4 2500 Precis M5 2500	Vehicle Model Trans. Test Weight (ECU) Part No. Excel/ Precis M4 2500 39110 -21420 or 39110 -21460 M5 2500 39110 -21420 or 39110 -21420 or 39110 -21460 A3 2500 39110 -21430 or 39110 or 39110	Vehicle Trans. Test (ECU) Fuel System Model Type Weight Part No. Part No. Excel/ M4 2500 39110 30-32DIDEF Precis -21420 -412 -412 or 39110 -21420 -412 or 39110 -21460 -412 A3 2500 39110 30-32DIDEF -21430 -413 -413 or 39110 -39110 -413	Vehicle Model Trans. Test Model (ECU) Part No. Fuel System Part No. Valve Part No. Excel/ Precis M4 2500 39110 30-32DIDEF -28450 -21420 -412 -21370 or 39110 or 28450 -21460 0r 28450 -21380 M5 2500 39110 30-32DIDEF 28450 -21420 -412 -21370 or 39110 or 28450 -21460 0r 28450 -21380 A3 2500 39110 30-32DIDEF 28450 -21380 or 28450 or 39110 or 28450	Vehicle Trans. Test (ECU) Fuel System Valve Cataly Model Type Weight Part No. <

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Passenger Cars X Light-Duty Trucks __ Medium-Duty Vehicles __ Gas X Diesel___

Manufacturer Hyundai Engine Family KHY1.5V2FCB5

Liter (CID) 1.5 (89.6) Eng. Type 4 cyl. In-line

Emission Control Sys. (Special Features) AIV+OS+EGR+TWC (CCV)

			Equiv.	Ign. System		EGR		
Engine	Vehicle	Trans.	Test	(ECU)	Fuel System	Valve	Catalyst Part No.	
Code	Model	Туре	Weight	Part No.	Part No.	Part No.		
							MCC	UCC
CM4-2	Excel/	M4	2500	39110	30-32DIDEF	28450	28533	28957
	Precis			-21420	-412	-31370	-21340	-21325
	or 3911		or 39110			or	28957	
				-21460				-21375
CM5-2		M5	2500	39110	30-32DIDEF	28450	28533	28957
				-21420	-412	-31370	-21340	-21325
				or 39110			or	28957
				-21460				-21375
CA-2		A3	2500	39110	30-32DIDEF	28450	28533	28957
				-21430	-413	-31370	-21340	-21325
				or 39110			or	28957
				-21470				-21375

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Revised: