

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-254-1
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 ⁵⁶1987 ^{JKM}model-year Hyundai Motor Company exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
GHY1.5V2FCBX	89.6 (1.5)	Air Injection-Valve Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Combustion Chamber Valve)

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>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
0.41	7.0	0.7

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.23	5.2	0.2

BE IT FURTHER RESOLVED: That the listed models were 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 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 1981 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 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 20th day of December, 1985.


K. D. Drachand, Chief
Mobile Source Division

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Hyundai Motor Company.

Executive Order No. A-254-1

ABBREVIATIONS

Ignition System

CA - Centrifugal Advance
EEC - Electronic Engine Control
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
CL -Closed Loop
EGR-Exhaust Gas Recirculation
EM -Engine Modification
OC -Oxidation Catalyst System
TOC-Trap Oxidizer Continual
TOP-Trap Oxidizer Periodical
TR -Thermal Reactor
TWC-Three Way Catalyst System

Special Features

CCV - Combustion Chamber Valve
CFI - Central Fuel Injection
DID - Diesel Injection Direct
DIP - Diesel Injection Prechamber
EFI - Electronic Fuel Injection
IC - Intercooler
MFI - Mechanical Fuel Injection
TC - Turbocharged

Fuel System

CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
VV-Variable Venturi

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Hyundai Executive order No. A-254-1
 Engine Family GHY1.5VZFCBX Evaporative Family GHY1.5FC
 Passenger Cars Light-Duty Trucks Medium-Duty Vehicles Gas Diesel
 Engine CID (liter) - Type 89.6 (1.5) - L4
 ECS (Special Features) AIV+CL+EGR+TWC (CCV)
 Drive System Front engine/Front drive
 Add 10% to dyno test HP for air conditioning usage NO

Engine Code	Vehicle Model (If Coded see attachment)	Trans.	Body* ETW	Ign. System CA, EI, VA Part No.	Fuel System CL, 2V Part No.	EGR Valve Part No.	Label Ident. Part No.
CM4	Excel	M4		L7X	28-32DIDTF -806	S1	32431- 21340
CM5		M5		L7X	28-32DIDTF -806	S1	32340- 21340
CA		A3		L8X	28-32DIDTF -807	S3	32340- 21340