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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-329-3 Relating to Certification of New Motor Vehicles

DAEWOO MOTOR CO.

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 1998 model-year Daewoo Motor Co. exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

<u>Fuel Type: Gasoline</u>

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Engine Family: WDWXV02.0D01 <u>Displacement</u>: 2.0 Liters (122 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Warm Up Three Way Catalytic Converter Three Way Catalytic Converter Heated Oxygen Sensor Oxygen Sensor Exhaust Gas Recirculation Sequential Multiport Fuel Injection

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

The TLEV certification exhaust emission standards for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane <u>Organic Gases</u>	Carbon <u>Monoxide</u>	Nitrogen Oxides	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>
50,000	0.125	3.4	0.4	0.015	10.0
100,000	0.156	4.2	0.6	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.98 RAF for 1998 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane <u>Organic Gases</u>	Carbon <u>Monoxide</u>	Nitrogen Oxides	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>
50,000	0.070	0.9	0.1	0.001	8.8
100,000	0.087	1.3	0.1	0.001	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 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 running loss and useful life standards applicable to 1995 and subsequent 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 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 vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit 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 and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

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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.

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.).

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 $\frac{15^{-7}h}{15^{-7}}$ day of December 1997.

R. B/Summerfield! Chief Mobile Source Operations Division

WDWXV02.0D01

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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 Manufacturer
 Daewoo Motor Co.

 All Engine Codes in Engine Family:
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Exh Std: <u>TLEV</u> Fuel Type <u>Gasoline</u> Evaporative Emission Test Procedure: <u>Federal</u> NMOG Test Procedure: <u>Std</u> Engine Config. <u>In-Line 4</u> Valves per Cylinder <u>4</u> Rated HP: LEGANZA 130.1 HP @ 5400 RPM

Engine : Front x Drive : FWD x Exhaust ECS & Special Features(incl. CARB, MPI, etc.) Engine Family WDWXV02.0D01 Evaporative Family: WDWXE0072B0N ORVR: LEGANZA-No

 Veh Class:
 Pass Car

 Exh Emission Test Fuel(s):
 CBG

 Service Accum:
 Mod AMA

 R/L Test Proc:
 Pt Source

 Displacment:
 1.998 Liters/1998 cc/121.9 Cubic Inches

WU-TWC, TWC, HO2S, O2S, EGR, SFI

Eng. Code/ (Cert. Std.)	Veh. Models (If Coded see Attachment.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight		lgn. Sys. (PNME/PROM) Part No.	EGR Syst. Part No.	Catalyst Part No.
2	Leganza 2.0 - NB	M5(M89)	3375	8.2	96350585	17097086	MCC: 25173920
	[UCC: 96350079
12	Leganza 2.0 - NB	A4(ML9)	3375	8.4	96350585	17097086	MCC: 25173920
							UCC: 96350079

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