K. O. Boon

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-18-6
Relating to Certification of New Motor Vehicles

AB VOLVO, CAR DIVISION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That AB Volvo, Car Division exhaust emission control systems for 1977 model-year passenger cars are certified for the engine family described below:

Engine Family: 4CA
Engine: 130 CID
Transmission: 3 Speed Automatic, 4 Speed Manual or 4 Speed Manual and overdrive
Exhaust Emission Control Systems: Fuel injection, Lambda-Sond, Three Way Catalyst

Models: 242
244
245

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1977 model vehicles:

Engine Family	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
4CA	0.20	3.3	0.2

BE IT FURTHER RESOLVED: That this certification is contingent upon AB Volvo, Car Division affixing a permanent catalyst overheat warning label on the driver's sun-visor of all catalyst-equipped vehicles. This label must be approved by the Executive Officer.

BE IT FURTHER RESOLVED: That this certification is also contingent upon AB Volvo, Car Division listing in the owner's manual the operating cautions associated with a catalyst-equipped vehicle. This listing must be approved by the Executive Officer.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 25 day of October, 1976.

G. C. Hass, Chief
Division of Vehicle Emissions Control

1977 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

[X] Passenger Cars [ ] Light-Duty Trucks

Manufacturer AB Volvo, Car Division Executive Order No. A-18-6 Page 1

Engine Family 4CA Engine (CID) 130 Engine Code

Emission Control System FI - λ- TWC +10%(A/C) Yes [X] No [ ]

Vehicle Models (If Coded see attachment)	Trans	Inertia Weight	Distributor Type C,VR, EI Mfgr. Part Number	Fuel System Type FI Mfgr. Part Number	EGR System Part No. Service*	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
242	A/T3 M/T4 M/T4 + O.D.	3000	See attached Sheet	See attached Sheet		(1) 12° ± 2° BTDC @ 750 ± 50 RPM Neutral; Vacuum line disconnected and plugged at distributor
244	M/T4 A/T3 M/T4 + O.D.	3000 3500				(2) 1.5 ± 0.3% CO in Neutral; CO taps upstream of catalyst; for automatic transmission check idle CO at 800 RPM
245	M/T4 A/T3 M/T4 + O.D.	3500				(3) 900 RPM in Neutral

Comments Axle Ratio: 3.91
O.D.- Overdrive

Date of Issue October 25, 1976

Abbreviations

Distributor
C-Centrifugal Advance
V-Vacuum Advance
VR-Vacuum Retard
HEI-High Energy Ignition
EI-Electronic Ignition

Fuel System
EFI, FI
nV-nVenturi Carburetor
VV-Variable Venturi

Exhaust Emission Control System
AI-Air Injection
CAI-Catalyst Air Injection
EFI-Electronic Fuel Injection
EGR-Exhaust Gas Recirculation
EM-Engine Modification
EFE-Early Fuel Evaporation
ESAC-Electronic Spark Advance Control
FI-Fuel Injection
OC-Oxidation Catalyst
PAI-Pulse Air Injection
RC-Reduction Catalyst
TR-Thermal Reactor
TWC-Three Way Catalyst
λ-Air Fuel Ratio Sensor

*Service
I-Inspect, repair/replace as needed
R-Replace

Component System Part Number

Manufacturer: AB Volvo, CAR Division
Engine Family: 4CA

Item	Volvo Part Number	Vendor Part Number	Number Locations on Part
Distributor	1219848	Bosch 0237003003	Stamp on side of aluminium body
Air Fuel Control Unit	1219945	Bosch 0438040014	Not marked
Fuel Distributor Unit		0438100018	On plate on side of body
Air Metering unit		0438120025	On plate on side of body below fuel distributor unit.