

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:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
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

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 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**
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|--------------------------|--|-------------------------------------|
| <u>Distributor</u> | <u>Exhaust Emission Control System</u> | |
| C-Centrifugal Advance | AI-Air Injection | OC-Oxidation Catalyst |
| V-Vacuum Advance | CAI-Catalyst Air Injection | PAI-Pulse Air Injection |
| VR-Vacuum Retard | EFI-Electronic Fuel Injection | RC-Reduction Catalyst |
| HEI-High Energy Ignition | EGR-Exhaust Gas Recirculation | TR-Thermal Reactor |
| EI-Electronic Ignition | EM-Engine Modification | TWC-Three Way Catalyst |
| <u>Fuel System</u> | EFE-Early Fuel Evaporation | λ-Air Fuel Ratio Sensor |
| EFI, FI | ESAC-Electronic Spark Advance Control | *Service |
| nV-nVenturi Carburetor | FI-Fuel Injection | I-Inspect, repair/replace as needed |
| VV-Variable Venturi | | R-Replace |

Component System Part Number

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

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