

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-22-37  
Relating to Certification of New Motor Vehicles

SAAB-SCANIA AB

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 1987 model-year Saab-Scania AB 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>
HSA2.0V5FTCO	121.1 (2.0)	Three-Way Catalyst Heated Oxygen Sensor (Electronic Fuel Injection) (Turbocharger) (Intercooler)

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>
0.26	2.4	0.4

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".

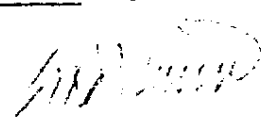
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

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.) and with 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 23<sup>rd</sup> day of September, 1986.

  
K. D. Drachand, Chief  
Mobile Source Division

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Saab-Scania AB Engine Family HSA2.0V5FTCO  
 Evaporative Family H-9000-4 Engine Type Otto 16-Valve 4-Cyl. In-line  
 Liters (CID) 2.0 (121.1)

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  
 SPL-Smoke Puff Limiter or Throttle Delay  
 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-Indirect  
 EFI-Electronic Fuel Injection  
 IC-Intercooler or aftercooler  
 MFI-Mechanical Fuel Injection  
 TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI  
 MV-Venturi Carburetor

VEHICLE MODELS:

Engine Code

202TM5AC  
 202TA4AC

Car Line

9000T-5CKL Hatchback  
 9000T-5CKLEAL Hatchback

Transmission

M5  
 A4

Engine: Front X Mid. \_\_\_\_\_ Rear \_\_\_\_\_  
 Drive: Fwd X RWD \_\_\_\_\_ 4WD Full Time \_\_\_\_\_ 4WD Part Time \_\_\_\_\_

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars  Light-Duty Trucks \_\_\_\_\_ Medium-Duty Vehicles \_\_\_\_\_ Gas  Diesel \_\_\_\_\_  
 Manufacturer Saab-Scania AB Engine Family HSA2.0V5FTCO (9000T)  
 Liter (CID) 2.0 (121.1) Eng. Type S.I. 16-Valve 4-Cyl. Transverse  
 Emission Control Sys. (Special Features) TWC, CL (EFI, TC, IC)

Engine Code	Vehicle Models (If Coded see Attachment) (HP)	Trans.	Equip. Test Weight	Ign. System Part No.	Fuel System Part No.	EGR Valve Part No.	Catalyst Part No.
202TH5AC	9000T-EAG-5CKL	M6	3375	Distributor Saab Pt. No. -75 61 806 Bosch Pt. No. -0237507007  Hall Effect Power Stage Saab Pt. No. -93 90 220 Bosch Pt. No. -0227100139	Electronic Control Unit (Manual 5-spd) Saab Pt. No. -93 69 750 Bosch Pt. No. -0200000531  Electronic Control Unit (Automatic 4-spd) Saab Pt. No. -93 91 173 Bosch Pt. No. -0200000539	Not Applicable	93 92 598 93 92 457 (Alternate)
202TAAC	9000T-EAG-5CKL	A4	3375	Ignition Coil Saab Pt. No. -85 73 834 Bosch Pt. No. -0221122327	Air Mass Meter Saab Pt. No. -93 75 643 Bosch Pt. No. -0202212065		

Comments: See page one for applicable vehicle and representative emission family identification. Please refer to manufacturer's HP list at bottom of page for test weight settings based on model and engine. If two test weights are listed, the lower weight will be used for testing.

ADD 10% to dyno test hp for air conditioning usage.