

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-367  
Relating to Exemptions Under Section 27156  
of the Vehicle Code

SCHAUMBURG AUDI  
PTB THROTTLE BODY

Pursuant to the authority vested in the Air Resources Board by Section 27156 of the Vehicle 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-45-5;

IT IS ORDERED AND RESOLVED: That the installation of the PTB Throttle Body manufactured by Schaumburg Audi of 3709 Lindenwood Lane, Glenview, Illinois 60025 has been found not to reduce the effectiveness of the applicable vehicle pollution control system and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for 1990 to 1994 Audis equipped with a 2.8 liter V6 gasoline engine.

Schaumburg Audi's PTB Throttle Body is a modified original equipment manufacturers (OEM) throttle body with the primary barrel enlarged to 1.37".

This Executive Order is valid provided that installation instructions for the PTB Throttle Body, will not recommend tuning the vehicle to specifications different from those of the vehicle manufacturer.

Changes made to the design or operating conditions of this throttle body, as exempt by the Air Resources Board, which adversely affect the performance of a vehicle's pollution control system shall invalidate this Executive Order.

Marketing of this throttle body using any identification other than that shown in this Executive Order or marketing of the throttle body for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

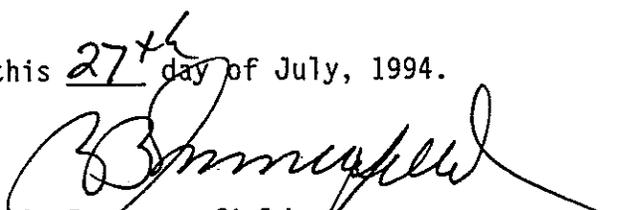
This Executive Order does not constitute any opinion as to the effect the use of the throttle body may have on any warranty either expressed or implied by the vehicle manufacturer.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOARD OF CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF SCHAUMBURG AUDI'S THROTTLE BODY.

No claim of any kind, such as "Approved by the Air Resources Board" may be made with respect to the action taken herein in any advertising or other oral or written communication.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after ten day written notice of intention to revoke the order, in which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request and the order may not be revoked until a determination after hearing that grounds for revocation exist.

Executed at El Monte, California, this 27<sup>th</sup> day of July, 1994.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

State of California  
AIR RESOURCES BOARD

EVALUATION OF SCHAUMBURG AUDI'S  
PTB THROTTLE BODY FOR EXEMPTION FROM THE PROHIBITIONS OF  
VEHICLE CODE SECTION 27156 IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE  
CALIFORNIA CODE OF REGULATIONS

July 1994

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by

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(This report has been reviewed by the staff of the California Air Resources Board and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the Air Resources Board, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.)

## SUMMARY

Schaumburg Audi of 3709 Lindenwood Lane, Glenview, Illinois 60025, has applied for an exemption from the prohibitions in Section 27156 of the California Vehicle Code (VC) for the PTB Throttle Body. The PTB Throttle Body is designed for installation on 1990 to 1994 Audis equipped with a 2.8L V6 gasoline engine.

Schaumburg Audi submitted a completed application and all other required information, as well as emissions test data performed at the AutoResearch Laboratories, Incorporated in Harvey, Illinois which shows that their PTB Throttle Body does not have any adverse effect on emissions.

Based on the submitted information, the staff concludes that the PTB Throttle Body will not adversely affect exhaust emissions from vehicles for which an exemption is requested.

The staff recommends that Schaumburg Audi be granted an exemption as requested and that Executive Order D-367 be issued.

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I. INTRODUCTION

Schaumburg Audi of 3709 Lindenwood Lane, Glenview, Illinois 60025, has applied for an exemption from the prohibitions in Section 27156 of the California Vehicle Code (VC) for their PTB Throttle Body. The PTB Throttle Body is designed for installation on 1990 to 1994 Audis equipped with a 2.8L V6 gasoline engine.

Schaumburg Audi submitted a completed application and other required information, as well as emissions test data performed at the AutoResearch Laboratories, Incorporated in Harvey, Illinois which shows that their PTB Throttle Body does not have any adverse effect on emissions.

II. CONCLUSIONS

Based on the submitted information, the staff concludes that the PTB Throttle Body will not adversely affect exhaust emissions from vehicles for which an exemption is requested.

III. RECOMMENDATION

The staff recommends that Schaumburg Audi be granted an exemption for their PTB Throttle Body for installation on 1990 to 1994 Audis equipped with a 2.8L V6 gasoline engine. The staff also recommends that Executive Order D-367 be issued.

IV. PTB THROTTLE BODY DESCRIPTION

The PTB Throttle Body is specifically designed for installation on 1990 to 1994 Audis equipped with a 2.8L V6 gasoline engine. The throttle body operates in conjunction with the original equipment manufacturer's (OEM) computer controlled fuel injection system already certified with the stock

engine. The purpose of using the PTB Throttle Body is to enhance performance at part throttle operation. This is accomplished by machining the primary barrel to remove excess metal before the throttle plate. This changes the primary diameter from 0.94" to 1.37". No changes are made to the stock tune-up specifications, and Schaumburg Audi does not recommend the use of high octane fuel when using their product. Schaumburg Audi has not authorized any other dealer or manufacturer to conduct its porting and polishing of the OEM throttle body.

V. DISCUSSION OF THE PTB THROTTLE BODY

Schaumburg Audi has requested that the PTB Throttle Body be exempted for 1990 to 1994 Audis equipped with a 2.8L V6 engine. A 1994 Audi 100S equipped with the PTB Throttle Body was used as the test vehicle. Schaumburg Audi performed testing at AutoResearch Laboratories, Incorporated (ALI) in Harvey, Illinois to be compared against the vehicle's emission standards.

The results of the exhaust emissions test performed at ALI are shown in Table 1.

Table 1  
CVS-75 TEST RESULTS

	<u>NMHC</u>	<u>CO</u>	<u>NOx</u>
	(grams/mile)		
Device	0.16	1.13	0.13
Standards	0.25	3.4	0.4
Deterioration factor (D.F.)	1.076	1.029	1.02
D.F. adjusted	0.17	1.16	0.133

The CVS-75 emissions test results at ALI indicate that the HC, CO and NOx emissions of the vehicle, with the PTB Throttle Body installed, are below the emission standards set for that engine family. The Air Resources Board did not conduct confirmatory testing to validate the emission test results submitted by Schaumburg Audi.

Schaumburg Audi submitted all of the required information and fulfilled the requirements for an exemption. The test results show that the PTB Throttle Body meets the requirements for exemption.