

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-372  
Relating to Exemptions Under Section 27156  
of the Vehicle Code

AUTO TECH PRODUCTS  
AUTO TECH PRODUCTS' PCV VALVE

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 Auto Tech Products' PCV Valve, a modified PCV valve, manufactured by Auto Tech Products of 23681 Schooner Drive, Canyon Lake, California 92587, 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 on all gasoline powered 1994 and older vehicles, excluding those equipped with OBD II.

This Executive Order is valid provided that installation instructions for Auto Tech Products' PCV Valve will not recommend tuning the vehicle to specifications different from those of the vehicle manufacturer.

Changes made to the design or operating conditions of the PCV Valve, 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 PCV Valve using any identification other than that shown in this Executive Order or marketing of the PCV Valve for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

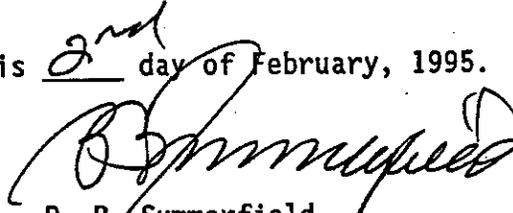
This Executive Order does not constitute any opinion as to the effect that the use of this PCV Valve may have on any warranty either expressed or implied by the vehicle manufacturer.

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 AUTO TECH PRODUCTS' PCV VALVE.

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 2nd day of February, 1995.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

State of California  
AIR RESOURCES BOARD

EVALUATION OF AUTO TECH PRODUCTS  
PCV VALVE FOR EXEMPTION FROM THE PROHIBITIONS OF  
VEHICLE CODE SECTION 27156 IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE  
CALIFORNIA CODE OF REGULATIONS

February 1995

State of California  
AIR RESOURCES BOARD

EVALUATION OF AUTO TECH PRODUCTS  
PCV VALVE FOR EXEMPTION FROM THE PROHIBITIONS OF  
VEHICLE CODE SECTION 27156 IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE  
CALIFORNIA CODE OF REGULATIONS

by

Mobile Source Division  
9528 Telstar Avenue  
El Monte, CA 91731-2990

(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

Auto Tech Products of 23681 Schooner Drive, Canyon Lake, California 92587, has applied for an exemption from the prohibitions in Section 27156 of the California Vehicle Code (VC) for their PCV Valve. The PCV Valve is designed for installation on all gasoline powered 1994 and older vehicles, excluding those equipped with OBD II. Auto Tech Products submitted a completed application and other required information.

Based on emissions test data of the device, the staff concludes that Auto Tech Products' PCV Valve will not adversely affect the exhaust emissions on those applicable vehicles for which an exemption is requested.

The staff recommends that Auto Tech Products be granted an exemption as requested and that Executive Order D-372 be issued.

## TABLE OF CONTENTS

	Page Number
SUMMARY	i
CONTENTS	ii
I. INTRODUCTION	1
II. CONCLUSION	1
III. RECOMMENDATION	1
IV. AUTO TECH PRODUCTS' PCV VALVE DESCRIPTION	1
V. DISCUSSION OF AUTO TECH PRODUCTS' PCV VALVE	2

EVALUATION OF AUTO TECH PRODUCTS  
PCV VALVE FOR EXEMPTION FROM THE PROHIBITIONS OF  
VEHICLE CODE SECTION 27156 IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE  
CALIFORNIA CODE OF REGULATIONS

I. INTRODUCTION

Auto Tech Products of 23681 Schooner Drive, Canyon Lake, California 92587, has applied for an exemption from the prohibitions in Section 27156 of the California Vehicle Code (VC) for their PCV Valve. The PCV Valve is designed for installation on all gasoline powered 1994 and older vehicles, excluding those equipped with OBD II. Auto Tech Products submitted a completed application and other required information.

II. CONCLUSIONS

Based on emissions test data of the device, the staff concludes that Auto Tech Products' PCV Valve will not adversely affect the exhaust emissions on those applicable vehicles for which an exemption is requested.

III. RECOMMENDATION

The staff recommends that Auto Tech Products be granted an exemption for their PCV Valve for installation on all gasoline powered 1994 and older vehicles, excluding those equipped with OBD II. The staff also recommends that Executive Order D-372 be issued.

IV. AUTO TECH PRODUCTS' PCV VALVE DESCRIPTION

Auto Tech Products' PCV Valve has been specifically designed for installation on all gasoline powered 1994 and older vehicles, excluding those equipped with OBD II. The device operates in conjunction with the original equipment manufacturer's (OEM) computer controlled fuel injection system and emission control system already certified with the stock engine.

The purpose of modifying the PCV valve of an engine is to vent blow-by gases from the crankcase into the intake manifold freely regardless of engine

vacuum. Auto Tech Products' PCV Valve's orifice is designed to regulate gas flow based on the speed of the engine. This was accomplished by designing the PCV valve to be activated by the use of a solenoid valve and the addition of a small switch placed at the throttle linkage.

V. DISCUSSION OF AUTO TECH PRODUCTS' PCV VALVE

Auto Tech Products, has requested that the PCV Valve be exempted for all gasoline powered 1994 and older vehicles, excluding those equipped with OBD II. Comparative emissions test data using the CVS-75 Federal Test Procedure was conducted on two passenger cars to evaluate the emissions impact of the device. Auto Tech Products performed emissions testing at Environmental Testing Corporation.

Results of the exhaust emissions test data are shown in Table 1.

Table 1  
CVS-75 TEST RESULTS

		<u>NMHC</u>	<u>CO</u>	<u>NOx</u>
1992 Mazda Miata 1.6L Test wt. 2500 lbs. H.P. 8.8	Device	0.27	2.59	0.68
	Baseline	0.32	3.31	0.62
	Difference	-0.05	-0.72	0.06
1994 Ford T-Bird 4.6L Test wt. 4000 lbs. H.P. 9.0	Device	0.096	1.349	0.412
	Baseline	0.095	1.165	0.337
	Difference	0.001	0.184	0.075

The emissions test data generated at Environmental Testing Corp. indicates that the HC, CO and NOx emissions of the vehicles, were within the allowable limits of 0.1 gm/mi or 10 percent increase on HC and NOx and 1.0 gm/mi or 15 percent increase on CO for comparative emissions test data. The Air Resources Board did not conduct confirmatory testing to validate the emissions data submitted by Auto Tech Products.

Auto Tech Products has submitted all the required information and has fulfilled the requirements for an exemption.