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State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-13  
Relating to Exemptions under Section 27156  
of the Vehicle Code

ADROIT PRODUCTS, INC.  
"POWER AIR BOOSTER"

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 Section 39023 of the Health and Safety Code;

IT IS ORDERED AND RESOLVED: That the installation of a "Power Air Booster" manufactured by Adroit Products, Inc, has been found to not reduce the effectiveness of required emission control devices in vehicles and therefore is exempt from the prohibitions of Section 27156 of the Vehicle Code for 1966-1972 model-year American Motors, Chrysler, Ford and General Motors (except Chevrolet Vega) vehicles with non-heated carburetor inlet air. The device consists of a urethane filter, slotted spacer ring and assembly hardware.

This Executive Order is valid provided that installation instructions for this device will not recommend tuning the vehicle to specifications different than those listed 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 ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF THE "AIR POWER BOOSTER" DEVICE.

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

Section 17500 of the Business and Professions Code makes unlawful, untrue or misleading advertising and Section 17534 makes violation punishable as a misdemeanor.

Section 39130 and 39184 of the Health and Safety Code provide as follows:

"39130. No person shall install, sell, offer for sale, or advertise, or, except in an application to the board for certification of a device, represent, any device as a motor vehicle pollution control device unless that device has been certified by the board. No person shall sell, offer for sale, advertise, or represent any motor vehicle pollution control device as a certified device which, in fact, is not a certified device. Any violation of this section is a misdemeanor."

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"39184. No person shall install, sell, offer for sale, or advertise, or, except in an application to the board for accreditation of a device, represent, any device as a motor vehicle pollution control device for use on any used motor vehicle unless that device has been accredited by the board. No person shall sell, offer for sale, advertise, or represent any motor vehicle pollution control device as an accredited device. Any violation of this section is a misdemeanor."

Any apparent violation of the policy or laws will be submitted to the Attorney General of California for such action as he deems advisable.

Executed at Sacramento, California, this 15 day of June, 1973.

JOHN A. MAGA  
Executive Officer

State of California

AIR RESOURCES BOARD

May 25, 1973

Staff Report

Evaluation of Adroit Products, Inc.  
"Power Air Booster" for Exemption to  
the Prohibitions of Section 27156 of  
the Motor Vehicle Code

I. Introduction

Adroit Products, Inc., New Baltimore, Michigan, has applied for exemption to the prohibitions of Section 27156 of the Motor Vehicle Code for the "Power Air Booster" air vent. The exemption has been requested for 1966 through 1972 model year American Motors, Chrysler, Ford and General Motors (except Chevrolet Vega) vehicles with non-heated carburetor inlet air. Section 27156 prohibits the installation of any device which reduces the effectiveness of motor vehicle emission control systems. The applicant claims the device improves performance and fuel economy.

The Air Resources Board has adopted criteria for the evaluation of "after-market" devices for compliance with Section 27156. The basis for evaluation is defined in the "Air Resources Board Criteria for Determining Compliance with Section 27156 of the Motor Vehicle Code", dated February 17, 1971.

II. System Description

The device consists of a urethane filter, slotted spacer ring and assembly hardware (see attached photographs). The slotted spacer ring

is installed between the lid and body of the air cleaner. The filter is installed under the air cleaner to compensate for the extra height of the air cleaner lid.

### III. System Function

The applicant states that the "Power Air Booster" allows air to enter the air filter element around its entire periphery thereby creating a more uniform distribution pattern of the air entering the carburetor. It is claimed that this feature and the added air filtering area improve the engine fuel economy and performance.

### IV. System Evaluation

Emission and fuel consumption tests conducted by the Air Resources Board Laboratory were performed on a 1968 Plymouth with a 383 CID V-8 engine, 4-Bbl. non-heated inlet air carburetor and automatic transmission. Before the test, the vehicle was inspected to assure that the engine and exhaust system were in proper operating condition.

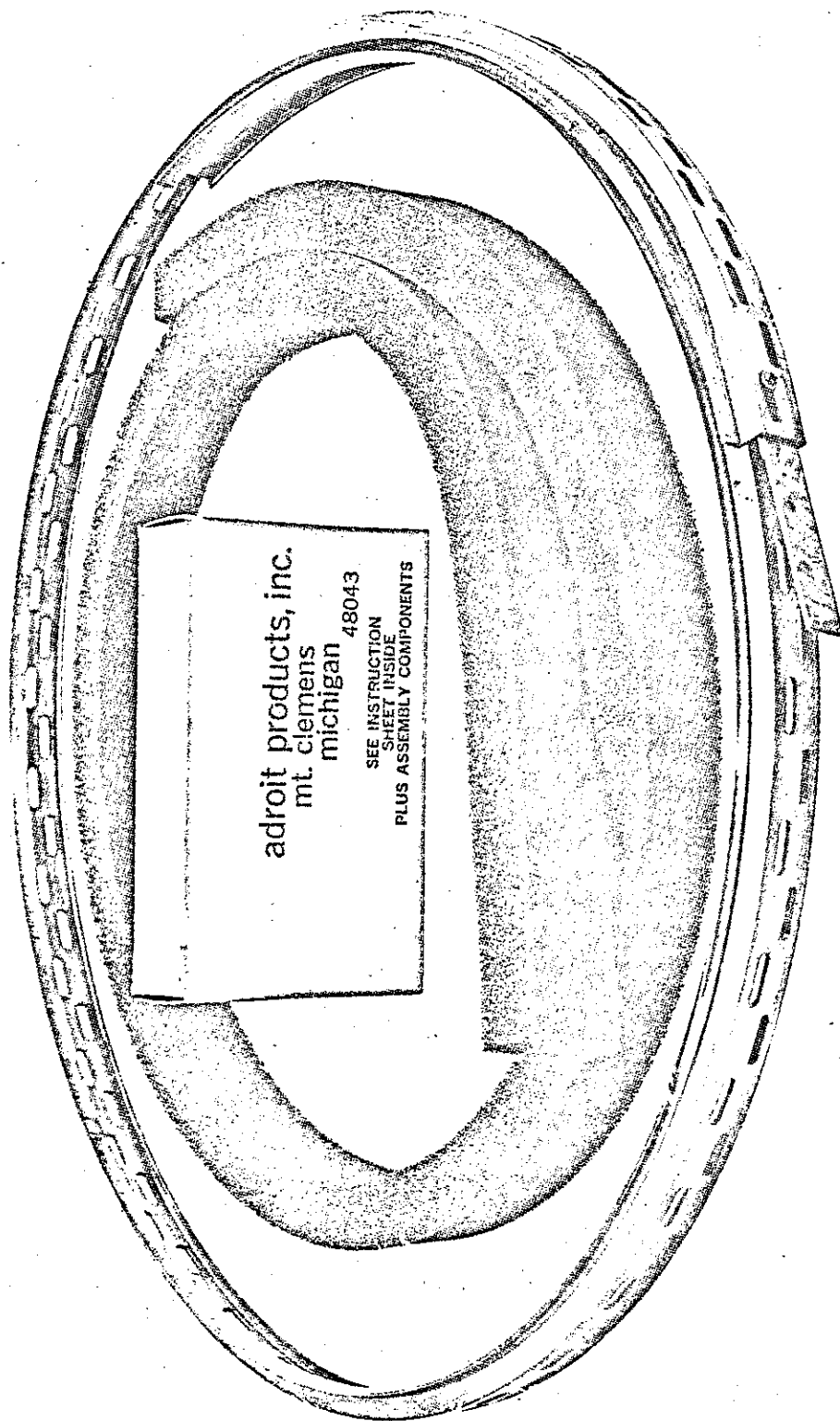
The results of the baseline and device hot CVS and fuel consumption tests are as follows:

|          | Hot CVS                |       |      | Fuel Consumption<br>Gms/Test |
|----------|------------------------|-------|------|------------------------------|
|          | Emissions-Gms/Mi<br>HC | CO    | NOx  |                              |
| Baseline | 3.77                   | 32.64 | 4.89 | 1598                         |
| Device   | 3.86                   | 32.71 | 4.70 | 1548                         |

These data indicate that the installation of the device has no significant effect on the exhaust emissions and fuel consumption of the test vehicle.

V. Conclusions and Recommendations

It is the staff opinion that the Adroit Products, Inc., "Power Air Booster" will not adversely effect the performance of the emission control systems of 1966 through 1972 model year American Motors, Chrysler, Ford, and General Motors (except Chevrolet Vega) vehicles with non-heated carburetor inlet air. Therefore, the "Power Air Booster" should be exempt from the prohibitions of Section 27156 of the Motor Vehicle Code when installed on the above noted vehicles.



# INSTRUCTIONS FOR INSTALLING THE POWER-AIR BOOSTER

Figure A.

FIGURE A.

1. Remove air cleaner cover.
2. Remove filter and clean. Replace if necessary.
3. Size aluminum section to diameter of canister. Mark and remove overlap with a hack saw.
4. Fit connector strip on inside of ring where the ends join. Match holes in strip to holes in the ring, and screw from the outside of ring to strip on inside of ring.

Figure B.

FIGURE B.

5. Assemble the foam filter to the air cleaner element.
  - A. Size the foam filter to the top of air filter element and remove overlap with a knife or scissors.
  - B. Remove dark side of pressure sensitive, double-stick tape square (small, white, 1" x 3/4" square) and apply to the end of the foam filter.
  - C. Remove white side of double-stick tape square and join the two ends of the foam filter to form a circle.  
(CAUTION: Adhesive dries on contact. Do not attempt to pull as you may tear the foam filter. Be sure the filter is not twisted when the ends are joined.)

6. Place the sized foam filter at the bottom of air cleaner element.

7. Replace air filter to its original position on carburetor.

8. If added length of air cleaner stud is needed because of the addition in height with the installation of the POWER-AIR BOOSTER, your parts kit contains a brass extension. Simply screw this extension to the air cleaner stud and replace the air cleaner cover as usual.

NOTE: "Air Hunger" may not be the only cause of low performance and economy. For maximum engine efficiency, we recommend . . . Periodic engine tune-ups:

Periodic air filter replacement.

The specially treated urethane filter, which is contained in your kit, should be kept clean at all times. We suggest you simply remove it at 5,000 mile intervals and wash it in warm, soapy water. It should last the lifetime of your car.

Enjoy your POWER-AIR BOOSTER and our best wishes for many safe and happy miles of driving.

ADROIT PRODUCTS, INC.  
Patent Pending  
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