

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-250-3
Relating to Exemptions Under Section 27156
of the Vehicle Code

Airflow Research, Inc.
Small Block Ford Aluminum Cylinder Heads
Part Numbers 1400, 1402, 1420, 1422, 1470, 1472, 1490, and 1492

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 39515 and Section 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the installation of the Small Block Ford Aluminum Cylinder Heads, manufactured and marketed by Airflow Research, Inc., 10490 Ilex Avenue Pacoima, CA 91331 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 1995 and older Ford vehicles equipped with the small block V8 engine.

Part No.	Intake Port Volume	Chamber Volume	Valve Size Intake/Exhaust
1400, 1470	165cc	64cc	1.9"/1.6"
1402, 1472	165cc	58cc	1.9"/1.6"
1420, 1490	185cc	64cc	2.02"/1.6"
1422, 1492	185cc	58cc	2.02"/1.6"

This Executive Order is valid provided the installation instructions for the Small Block Ford Aluminum Cylinder Heads 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 Small Block Ford Aluminum Cylinder Heads, as exempt by the Air Resources Board, which adversely affect the performance of the vehicle's pollution control system shall invalidate this Executive Order.

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

Exemption of the Small Block Ford Aluminum Cylinder Heads shall not be construed as exemption to sell, offer for sale, or advertise any component of the kit as an individual device.

This Executive Order does not constitute any opinion as to the effect the use of the Small Block Ford Aluminum Cylinder Heads may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on submitted emissions test data which showed that the worst case cylinder head, part no. 1470, did not adversely affect tailpipe emissions during comparative Cold Start CVS-75 Federal Test Procedure. A 1995 Ford Mustang was used as the test vehicle.

	NMHC	CO	NOX
Stock	0.12	1.2	0.3
Device	0.16	1.8	0.4
Difference	0.04	0.6	0.1
% Difference	33%	50%	33%

Test results showed that tailpipe emissions during comparative Cold Start CVS-75 Federal Test Procedure with the Ford Aluminum Cylinder installed on the vehicle did not cause exhaust emissions to exceed the baseline emissions by more than the allowed limits of 10 percent or 0.1 grams per mile on hydrocarbon (HC) and oxides of nitrogen (NOx), and 15 percent or 1.0 grams per mile carbon monoxide (CO) as specified in the "Procedures for Exemption of Add-On and Modified Parts".

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 AIRFLOW RESEARCH, INC.'S SMALL BLOCK FORD ALUMINUM CYLINDER HEADS.

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 a 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 3rd day of October 2000.


R. B. Summerfield, Chief
Mobile Source Operations Division