

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-161-4
Relating to Exemptions under Section 27156
of the Vehicle Code

GALE BANKS ENGINEERING, RAPIDO TURBO 6.9
TURBOCHARGER KIT MODEL NO. 6.9FR FOR FORD HEAVY-DUTY VEHICLES
POWERED BY A 6.9 LITER NAVISTAR INTERNATIONAL
HEAVY-DUTY DIESEL ENGINE

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 Rapido Turbo 6.9 add-on turbocharger kit Model No. 6.9FR manufactured by Gale Banks Engineering, 546 Duggan Avenue, Azusa, California 91702, using a Rotomaster turbocharger Model No. T04B with an A/R ratio of 1.0 has been found not to reduce the effectiveness of required motor vehicle pollution control devices and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for 1983 through 1987 model-year Ford Motor Company heavy-duty vehicles powered by a 6.9 liter Navistar International heavy-duty diesel engine.

Modifications to the OEM emission-related parts due to the installation of the turbocharger kit include a new air cleaner assembly, a new 3" low-restriction muffler and 3" diameter exhaust pipe.

This Executive Order is valid provided that installation instructions for this device will not recommend tuning the vehicle to specifications different from those submitted by the device manufacturer.

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

Marketing of this device using an identification other than that shown in this Executive Order or marketing of this device 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 a kit shall not be construed as an exemption to sell, offer for sale, or advertise any component of a kit as an individual device.

This Executive Order does not constitute any opinion as to the effect that the use of this device 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 ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF THE RAPIDO TURBO 6.9 TURBOCHARGER KIT FOR INSTALLATION ON FORD MOTOR COMPANY VEHICLES POWERED BY A 6.9 LITER NAVISTAR INTERNATIONAL HEAVY-DUTY DIESEL ENGINE.

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 untrue or misleading advertising unlawful, and Section 17534 makes violation punishable as a misdemeanor.

Section 43644 of the Health and Safety Code provides as follows:

"43644. (a) No person shall install, sell, offer for sale, or advertise, or, except in an application to the state board for certification 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 certified by the state 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 subdivision is a misdemeanor."

Any apparent violation of the conditions of this Executive Order will be submitted to the Attorney General of California for such action as he deems advisable.

Executed at El Monte, California, this 18 day of December, 1986.



K. D. Drachand, Chief
Mobile Source Division

State of California
AIR RESOURCES BOARD

EVALUATION OF GALE BANKS ENGINEERING'S RAPIDO TURBO 6.9
ADD-ON TURBOCHARGER KIT MODEL NO. 6.9FR FOR INSTALLATION IN
FORD MOTOR COMPANY HEAVY-DUTY VEHICLES POWERED BY A 6.9 LITER
NAVISTAR INTERNATIONAL HEAVY-DUTY DIESEL ENGINE

November, 1986

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EVALUATION OF GALE BANKS ENGINEERING'S RAPIDO TURBO 6.9
ADD-ON TURBOCHARGER KIT MODEL NO. 6.9FR FOR INSTALLATION IN
FORD MOTOR COMPANY HEAVY-DUTY VEHICLES POWERED BY A 6.9 LITER
NAVISTAR INTERNATIONAL HEAVY-DUTY DIESEL ENGINE

by

Mobile Source Division

State of California
AIR RESOURCES BOARD
9528 Telstar Avenue
El Monte, CA 91731

(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

Gale Banks Engineering (Banks) has requested an exemption from the prohibitions in Vehicle Code Section 27156 for their Rapido Turbo 6.9 add-on turbocharger kit Model No. 6.9FR designed for 1983-1987 Ford Motor Company heavy-duty vehicles which are powered by the Navistar International (formerly International Harvester) 6.9 liter heavy-duty diesel engine.

The Rapido Turbo 6.9 add-on turbocharger kit Model No. 6.9FR is manufactured by Banks exclusively for the Rapido Group. It is identical to the Banks add-on turbocharger kit Model No. 6.9F except for the logo embossed in the air cleaner housing lid and the logo printed on the turbocharger system identification label. In place of the "BANKS" logo is the "RAPIDO TURBO 6.9" logo.

Based on the fact that Banks was previously granted exemption for their Model No. 6.9F kit for use on 1983-1987 Ford heavy-duty vehicles which are powered by the Navistar International heavy-duty diesel engine under Executive Order D-161-2 and the only differences between the Model No. 6.9F and the Model No. 6.9FR are cosmetic, the staff recommends that Banks be granted their request and that Executive Order D-161-4 be issued.

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EVALUATION OF GALE BANKS ENGINEERING'S RAPIDO TURBO 6.9 ADD-ON
TURBOCHARGER KIT MODEL NO. 6.9FR FOR INSTALLATION IN FORD MOTOR
COMPANY HEAVY-DUTY VEHICLES POWERED BY A 6.9 LITER
NAVISTAR INTERNATIONAL HEAVY-DUTY DIESEL ENGINE

I. INTRODUCTION

Gale Banks Engineering (Banks) of 546 Duggan Avenue, Azusa, California 91702, has requested an exemption from the prohibitions of Vehicle Code Section 27156 for their Rapido Turbo 6.9 add-on turbocharger kit Model No. 6.9FR for Ford Motor Company heavy-duty vehicles powered by the 6.9 liter Navistar International (formerly International Harvester) heavy-duty diesel engine.

The Rapido Turbo 6.9 add-on turbocharger kit Model NO. 6.9FR is manufactured by Banks Engineering exclusively for the Rapido Group. It is identical to the Banks add-on turbocharger kit Model No. 6.9F except for the logo embossed in the air cleaner housing lid and the logo printed on the turbocharger system identification label. In place of the "BANKS" logo is the "RAPIDO TURBO 6.9" logo.

II. CONCLUSION

Based on the fact that Banks was previously granted exemption for their Model No. 6.9F kit for use on 1983-1987 Ford heavy-duty vehicles which are powered by the Navistar International heavy-duty diesel engine under Executive Order D-161-2 and the only differences between the Model No. 6.9F and the Model No 6.9FR are cosmetic the staff concludes that the Model No. 6.9FR will have the same degree of performance/emissions impact as the Model No. 6.9F.

III. RECOMMENDATIONS

The staff recommends that Banks be granted their request and that Executive Order D-161-4 be issued.

IV. TURBOCHARGER KIT DESCRIPTION AND EVALUATION

For details of the turbocharger kit description and evaluation, please refer to the February, 1986 staff report entitled, "EVALUATION OF GALE BANKS ENGINEERING'S ADD-ON TURBOCHARGER KIT MODEL NO. 6.9F FOR INSTALLATION IN FORD MOTOR COMPANY HEAVY-DUTY VEHICLES POWERED BY A 6.9 LITER INTERNATIONAL HARVESTER HEAVY-DUTY DIESEL ENGINE".

V. DISCUSSION

The previous evaluation of the Banks 6.9F turbocharger system showed that it did not cause an adverse emissions effect when installed on a 1985 Ford F-250 pick-up truck. Since the Navistar International 6.9LD engine family has not been changed for the 1986 and 1987 model-years, no adverse emissions effect will occur when the Banks 6.9F turbocharger system is installed on the later model-year vehicles. Since the Model No. 6.9FR is functionally identical to the Model No. 6.9F no adverse emissions effect will occur when the Rapido Turbo 6.9 turbocharger system is installed on the 1983-1987 Ford heavy-duty diesel vehicles.

An exemption should be granted and Executive Order D-161-4 should be issued.