

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-321
Relating to Exemptions Under Section 27156
of the Vehicle Code

DESIGN, DEVELOPMENT & MANUFACTURE (INTERNATIONAL) PTY. LTD.
300, 375 & 450 HP TWIN TURBO SYSTEMS

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 300, 375 & 450 HP Twin Turbo Systems manufactured by Design, Development & Manufacture (International) PTY. LTD. (DDMI) of 1 Elizabeth Street, Hawthorn Vic. 3122, have been found not to reduce the effectiveness of the applicable vehicle pollution control system and, therefore, are exempt from the prohibitions of Section 27156 of the Vehicle Code for installation on the following 5.0L V8 Ford Mustangs:

| <u>Model-Year</u> | <u>Twin Turbo System</u> | <u>Components</u> |
|-------------------|--------------------------|--|
| 1986-93 | 300 HP | Two Garrett Airesearch T-25 turbochargers with a turbine area ratio (A/R) of 0.64, two open element replacement air cleaners, modified exhaust manifolds, and new airflow meter housing. |
| 1986-93 | 375 HP | Same components as the 300 HP kit plus an intercooler, high volume fuel pump, one additional fuel injector, and a fuel controller. |
| 1990-93 | 450 HP | Same components as the 375 HP kit plus one additional fuel injector, throttle body, EGR spacer, intake manifold, after catalyst exhaust tubing, rocker arms, and cylinder heads. |

Modifications to the OEM emission control systems for all turbo systems includes the relocation of air injection hoses, retarding ignition timing from stock 10° BTDC to 5° BTDC, and the installation of a one way valve between the P.C.V. valve and inlet manifold.

This Executive Order is valid provided that installation instructions for the 300, 375 & 450 HP Twin Turbo Systems will not recommend tuning the vehicle to specifications different from those submitted by DDMI.

Changes made to the design or operating conditions of the 300, 375 & 450 HP Twin Turbo Systems, 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 the 300, 375 & 450 HP Twin Turbo Systems using any identification other than that shown in this Executive Order or marketing of the 300, 375 & 450 HP Twin Turbo Systems 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 300, 375 & 450 HP Twin Turbo Systems 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 these 300, 375 & 450 HP Twin Turbo Systems may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on results from emissions tests conducted in accordance with Cold-Start CVS-75 Federal Test Procedure. However, the ARB finds that reasonable grounds exist to believe that use of the 300, 375 & 450 HP Twin Turbo Systems may adversely affect emissions of motor vehicles when operating under conditions outside the parameters of the previously prescribed test procedures. Accordingly, the ARB reserves the right to conduct additional emission tests, in the future, as such tests are developed, that will more adequately measure emissions from all cycle phases. If such test results demonstrate that the 300, 375 & 450 HP Twin Turbo Systems adversely affect emissions during off-cycle conditions (defined as those conditions which are beyond the parameters of the Cold-Start CVS-75 Federal Test Procedure), this Executive Order shall be effectively rescinded as of the date the test results are validated. Further, if such test results or other evidence provides the ARB with reason to suspect that the 300, 375 & 450 HP Twin Turbo Systems will affect the durability of the emission control system, DDMI shall be required to submit durability data to show that the durability of the vehicle emission control system is not, in fact, affected and/or that the add-on or modified part demonstrates adequate durability.


In addition to the foregoing, the ARB reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of Title 13, California Code of Regulations, Section 2222, et seq.

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 DESIGN, DEVELOPMENT & MANUFACTURE (INTERNATIONAL) PTY. LTD.'S 300, 375 & 450 HP TWIN TURBO SYSTEMS.

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 28th day of June, 1993.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division