

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-573

Relating to Exemptions Under Section 27156  
of the California Vehicle Code

Tii Trading Co.  
Tiico Engine Conversion

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-02-003;

IT IS ORDERED AND RESOLVED: That the installation of the Tiico Engine Conversion, produced and marketed by Tii Trading Co., 3031 Alhambra Dr., Suite 202, Cameron Air Center, Cameron Park, California 95682, has been found not to reduce the effectiveness of the applicable vehicle pollution control systems and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for the 1983 through 1991 model-year VW Vanagon.

The Tiico Engine Conversion includes the following main components: a South African rebuilt 1991 Audi 80/90 2.0 Liter 4 cylinder engine with a 1993-1996 Golf/Jetta intake manifold (to allow room for installation in the Vanagon engine compartment, p/n 037 133 201AP). The throttle body of the engine has been fitted with an inlet for connection to the evaporative system. The ECU utilized is the stock 1991 Audi 80/90 unit, p/n 893 907 404. The original vanagon catalytic converter is retained. Also included are brackets and hardware necessary for installation of the engine.

This Executive Order is valid provided that the installation instructions for the Tiico Engine Conversion will not recommend tuning the vehicle to specifications different from those of the vehicle manufacturer for the 1991 Audi 80/90 engine utilized in the Tiico Engine Conversion.

Changes made to the design or operating conditions of the Tiico Engine Conversion, as exempt by the Air Resources Board, which adversely affect the performance of the vehicle's pollution control system shall invalidate this Executive Order.

This Executive Order shall not apply to any Tiico Engine Conversion advertised, offered for sale, sold with, or installed on a new motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

Marketing of the Tiico Engine Conversion using any identification other than that shown in this Executive Order or marketing of the Tiico Engine Conversion 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 the use of the Tiico Engine Conversion may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on an examination of a 1987 VW Vanagon in the modified configuration using the Cold-Start CVS-75 Federal Test Procedure. Test data showed that the Tiico Engine Conversion will have no adverse impact on the vehicle's emissions. Results from emissions testing conducted at Northern California Diagnostic Labs are shown below (in grams per mile):

50k	HC	CO	NOx
Emission Level (w. DF applied)	0.154	0.998	0.685
STD	0.50	9.0	1.0

If evidence provides the ARB with reason to suspect that the Tiico Engine Conversion will affect the durability of emission control systems, Tii Trading Co. shall be required to submit durability data to show that the durability of vehicle emission control systems are not, in fact, affected and/or that the add-on or modified part demonstrates adequate durability.

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 ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF TII TRADING CO.'S TIICO ENGINE CONVERSION.**

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 is made after the hearing that grounds for revocation exist.

Executed at El Monte, California, this 15<sup>th</sup> day of October 2003.



Allen Lyons, Chief  
Mobile Source Operations Division