State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-425-50

Relating to Exemptions Under Section 27156
of the California Vehicle Code

Toyota Racing Development
TRD Supercharger System

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-14-012;

IT IS ORDERED AND RESOLVED: That the installation of the TRD Supercharger System, manufactured and marketed by Toyota Racing Development, 19001 South Western Avenue, Torrance, California, 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 following Toyota truck applications:

Part No.	Model Year	Engine Disp.	Model
PTR29-34070	2007 to 2013	5.7L (3UR-FE)	Tundra
PTR29-00140	2014 to 2015	5.7L (3UR-FE)	Tundra
PTR29-34070	2008 to 2013	5.7L (3UR-FE)	Sequoia
PTR29-00140	2014 to 2015	5.7L (3UR-FE)	Sequoia
PTR29-60140	2008 to 2015	5.7L (3UR-FE)	Land Cruiser/LX570
PTR29-35090	2005 to 2015	4.0L (1GR-FE)	Tacoma
PTR29-35090	2007 to 2009	4.0L (1GR-FE)	FJ Cruiser
PTR29-35090	2003 to 2009	4.0L (1GR-FE)	4-Runner
PTR29-00130	2010 to 2014	4.0L (1GR-FE)	FJ Cruiser
PTR29-00130	2010 to 2015	4.0L (1GR-FE)	4-Runner

The 5.7L Supercharger System includes a Magnuson supercharger (rated at a maximum boost of 8.5 psi.) with a 2.45 inch diameter supercharger pulley and the stock crankshaft pulley, high flow injectors to replace the stock injectors, a new ECU calibration, intercooler, intake manifold, an air bypass valve, and a new replacement fuel pump which is located in the fuel tank. The stock lower air filter housing is retained while the stock air filter lid is replaced with a modified air filter housing lid. The Toyota hydrocarbon trap is permanently heat staked to the new housing lid.

The 4.0L Supercharger System, PTR29-35090, includes the following main parts: an Eaton MP90 supercharger with integral intake manifold and intercooler, a 3.0 inch diameter supercharger pulley and a 6.5 inch crankshaft pulley, a by-pass valve, six replacement fuel injectors rated at 455 cubic centimeters per minute, and a reprogrammed OEM ECU. The stock airflow sensor, air cleaner housing and thermostat are retained. Boost is limited to a maximum of 7 pounds per square inch.

The 4.0L Supercharger System, PTR29-00130, includes the following main parts: an Eaton TVS-1320 supercharger with integral intake manifold and intercooler, a 2.4 inch diameter supercharger pulley and a 5.9 inch crankshaft pulley, a by-pass valve, six replacement fuel injectors rated at 455 cubic centimeters per minute, air filter element, and a reprogrammed OEM ECU. The stock airflow sensor, air cleaner housing and thermostat are retained. Boost is limited to a maximum of 7.5 pounds per square inch.

This Executive Order is valid provided that the installation instructions for the TRD Supercharger System 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 TRD Supercharger System, 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 TRD Supercharger System 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 TRD Supercharger System using any identification other than that shown in this Executive Order or marketing of the TRD Supercharger System 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 TRD Supercharger System may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on previously submitted emission test data from Toyota Racing Development (D-425-20, D-425-24, and D-425-27) on a 2006 model year Toyota Tacoma with a 4.0 liter engine (6TYXT04.0NEM, LEV II LEV, LDT), a 2008 model year Toyota Tundra with a 5.7 liter engine (8TYXT05.7BEX, LEV II ULEV), and a 2007 model year Scion tC with a 2.4 liter engine (7TYXV02.4BEA, LEV II ULEV, PC). The emission test results with the TRD Supercharger System installed were below the applicable certification emission standards. Examination of the OBD II system, showed no effect on the vehicles' OBD II system operation. The same emission and OBD II test results would be expected with the TRD Supercharger System installed on the requested vehicles.

The Air Resources Board 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 THE TRD SUPERCHARGER SYSTEM.

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 17th day of October 2014.

FOR Annette Hebert, Chief
Emissions Compliance, Automotive Regulations and Science Division