CALIFORNIA
AIR RESOURCES BOARD

EXECUTIVE ORDER D-488-43

Relating to Exemptions Under Section 27156
of the Vehicle Code

Magnuson Products, Inc.
Toyota 4.0L Supercharger Kit

Pursuant to the authority vested in the California 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 installation of the Toyota 4.0L Supercharger Kit manufactured and marketed by Magnuson Products, Inc. of 1990 Knoll Drive, Ventura, California 93003 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 California Vehicle Code for the following Toyota applications listed in Exhibit A

The Supercharger Kit consists of the following main components: Eaton 1320cc TVS 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, 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 tuner's emission-related data files cannot be modified by the end user. All supplied fuel hoses are Avon's CADbar 9000 series, and fuel and vapor line connectors supplied with the kit are OEM – equivalent parts. Breather hoses may be replaced with an SAE30R9 rated hose.

This Executive Order shall not apply to any Toyota 4.0L Supercharger Kit advertised, offered for sale, sold with, or installed on a new motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

This Executive Order is valid provided that the installation instructions for the Toyota 4.0L Supercharger Kit 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 device, as exempted by the California 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 any 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 California Air Resources Board.

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 exemption is issued based on prior submitted emissions test data, from the SEMA Garage, Diamond Bar, California, on a 2015 model year 4.0L Toyota Tacoma, certified to the LEV II ULEV emission standards, and tested using the Cold-Start CVS-75 Federal Test Procedure (FTP) test cycle and the Supplemental Federal Test Procedure (SFTP US06/SC03) test cycles.

	CVS-75 FTP			
	NMOG	CO	NOx	HCHO
Standards, UL	0.055	2.1	0.070	0.011
Device Test w/df, 2 test avg.	0.024	0.5	0.010	0.001

	US06/SC03	
	NMHC+NOx	CO
Standards 4k	0.25/0.27	10.5/3.5
Device	0.05/0.01	1.1/0.1

Useful Life SFTP Emission Level (Composite w/ df)	NMOG+NOx 0.035
Standards	0.100 (BIN)

Test results showed that the Toyota 4.0L Supercharger Kit, when installed on the vehicle did not cause exhaust emissions to exceed the applicable emission standards during the FTP and SFTP. This Executive Order is also based on the On-Board Diagnostic II (OBD II) testing conducted on the same test vehicle. Toyota 4.0L Supercharger Kit when installed on the test vehicle did not affect the vehicle's ability to perform its OBD II monitoring.

In addition, the California 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 CALIFORNIA AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF THE TOYOTA 4.0L SUPERCHARGER KIT.

No claims of any kind, such as "Approved by the California 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 28 day of March 2018.

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

Exhibit A

Year	Make	Model	Engine Size (L)	Kit Part Number	SC Pulley Size (in)	Crank Pulley (in)
2018 LEV II / ULEV	Toyota	4 Runner 2wd 4 Runner 4wd	4.0	01-13-40-021-BL	2.4	5.9
2017 LEV II / ULEV	Toyota	4 Runner 2wd 4 Runner 4wd	4.0	01-13-40-021-BL	2.4	5.9
2016 LEV II / ULEV	Toyota	4 Runner 2wd 4 Runner 4wd	4.0	01-13-40-021-BL	2.4	5.9
2015 LEV II / ULEV	Toyota	4 Runner 2wd 4 Runner 4wd	4.0	01-13-40-021-BL	2.4	5.9
2014 LEV II / ULEV	Toyota	FJ Cruiser 2wd FJ Cruiser 4wd 4 Runner 2wd 4 Runner 4wd	4.0	01-13-40-021-BL	2.4	5.9
2013 LEV II / LEV	Toyota	FJ Cruiser 2wd FJ Cruiser 4wd 4 Runner 2wd 4 Runner 4wd	4.0	01-13-40-021-BL	2.4	5.9
2012 LEV II / LEV	Toyota	FJ Cruiser 2wd FJ Cruiser 4wd 4 Runner 2wd 4 Runner 4wd	4.0	01-13-40-021-BL	2.4	5.9
2011 LEV II / LEV	Toyota	FJ Cruiser 2wd FJ Cruiser 4wd 4 Runner 2wd 4 Runner 4wd	4.0	01-13-40-021-BL	2.4	5.9
2010 LEV II / LEV	Toyota	FJ Cruiser 2wd FJ Cruiser 4wd 4 Runner 2wd 4 Runner 4wd	4.0	01-13-40-021-BL	2.4	5.9