CALIFORNIA
AIR RESOURCES BOARD

EXECUTIVE ORDER D-418-32

Relating to Exemptions Under Section 27156
of the California Vehicle Code

Roush Industries
Flash Pack with Cold Air 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 the installation of the Flash Pack with Cold Air Kit, manufactured and marketed by Roush Industries of 12249 Levan Road, Livonia, Michigan 48150, 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 Ford vehicles:

PN	Model	Engine	Model Year
422113	Mustang	5.0L	2018 and 2019

Flash Pack is a new ECU calibration with no user adjustments; Cold Air Kit includes Conical air filter element in a new closed air box with clear lid, air intake tubing from throttle body to filter, and all necessary mounting hardware for proper installation. The MAF sensor element is re-installed in the new MAF tube in a stock location and orientation. The stock HCT is heat staked in stock location and orientation. No other changes are made for proper installation. No modifications are made to stock ECU calibration. **Installation of the Flash Pack with Cold Air Kit requires the removal of the stock air filter housing and intake air tubing. If the stock air filter housing contains the vehicle's tune-up & emissions control decal, a replacement decal must be placed in a similar location.**

This Executive Order is valid provided that the installation instructions for the Flash Pack with Cold Air Kit will not recommend tuning the vehicle to specifications different from those of Roush Industries.

Changes made to the design or operating conditions of the Flash Pack with Cold Air Kit, as exempt by the California 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 Flash Pack with Cold Air Kit 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 Flash Pack with Cold Air Kit using any identification other than that shown in this Executive Order or marketing of the Flash Pack with Cold Air Kit 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 the use of the Flash Pack with Cold Air Kit may have on any warranty either expressed or implied by the vehicle manufacturer.

This exemption is issued based on **prior** submitted emissions test data in support of Executive Order D-418-28, from the SEMA Garage, Diamond Bar, California, on a 2015 model year Ford 2.3L Turbo Mustang certified to the LEV 3 ULEV 70 emission standards, modified with the Flash Pack with Cold Air Kit, and tested using the Cold-Start CVS-75 Federal Test Procedure (FTP) test cycle and the Supplemental Federal Test Procedure (SFTP US06/SC03 (AC2 test + 20%)) test cycle.

Useful Life FTP Emission Level (w/ df applied, 2 test avg)	NMOG+NOx	CO	HCHO
	0.051	0.4	0.002
Standards	0.070	1.7	0.004

Useful Life SFTP Emission Level (Composite w/ df)	NMOG+NOx	CO
	0.045	0.5
Standards	0.090 (BIN)	4.2

Horsepower gain was measured at 62hp.

Test results showed that the Flash Pack with Cold Air Kit 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. The Flash Pack with Cold Air Kit when installed on the test vehicle did not affect the vehicle's ability to perform its OBD II monitoring. Similar results would be expected from the other vehicles listed.

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 ROUSH INDUSTRIES' FLASH PACK WITH COLD AIR KIT.

No claim 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 31st day of July 2018.

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