CALIFORNIA
AIR RESOURCES BOARD

EXECUTIVE ORDER D-308-14

Relating to Exemptions Under Section 27156
of the California Vehicle Code

Ford Performance Parts

Emissions Compliant Offering (ECO) 5.0L

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-19-095;

IT IS ORDERED AND RESOLVED: That installation of the Emissions Compliant Offering (ECO) 5.0L, manufactured and marketed by Ford Performance Parts, 1800 Fairlane Drive, Allen Park, Michigan 48101, 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 all 1995 and older passenger cars and trucks, with up to 4500 lbs. test weight (5725 lbs. GVWR).

The ECO 5.0L is a complete engine, transmission, and emission control package designed to change engines from 1995 and older passenger cars and light duty trucks, with up to 4500 lbs. test weight (5725 lbs. GVWR). The kits are derived from a certified 2020 model year Ford Mustang engine (test group LFMXV05.0VKN) but with modifications to the original emission control module (ECM) calibration, evaporative system, and air intake system. The main components of the kits with their corresponding part numbers are listed in Exhibit A. Installation of the ECO 5.0L requires complete removal of the stock pre-1996 model year engine, including its exhaust and evaporative emission control system. The stock fuel tank, hoses and fuel pump are retained but need to be reconfigured or upgraded to meet the installation requirements of the ECO 5.0L. The kit is equipped with a fully functioning on-board diagnostic II (OBD II) system except for the evaporative system checks. The stock vehicle check engine light is retained or needs to be added for older vehicles that were not originally equipped with a check engine light in the dashboard. Exhaust system, catalytic converters and oxygen sensors must be installed in the location/orientation as prescribed in the installation instructions provided with the kit. An open element air intake with integrated mass air flow sensor and hydrocarbon absorber is included and must be installed on host vehicle. **User adjustability is only limited to tire size and axle ratio, all other components have no user adjustability, including supplied fuel pressure regulator. No exhaust piping can be added between supplied exhaust manifold and output of rear supplied converter. Each converter contains pre-installed, welded on, upstream connecting pipes with factory flanges.**

This Executive Order is valid provided that the installation instructions for the Emissions Compliant Offering (ECO) 5.0L will not recommend tuning the vehicle to specifications different from those of Ford Performance Parts.

Changes made to the design or operating conditions of the Emissions Compliant Offering (ECO) 5.0L, 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 Emissions Compliant Offering (ECO) 5.0L 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 Emissions Compliant Offering (ECO) 5.0L using any identification other than those shown in this Executive Order or marketing of the Emissions Compliant Offering (ECO) 5.0L 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 Emissions Compliant Offering (ECO) 5.0L may have on any warranty either expressed or implied by the vehicle manufacturer.

Exemption of the Emissions Compliant Offering (ECO) 5.0L shall not be construed as an exemption to sell, offer for sale, or advertise any component of the assembly as individual devices.

This exemption is issued based on submitted emissions and On-Board Diagnostic II (OBD II) test data, from the Ford's Emissions Laboratory in Allen Park, Michigan, on a 2006 model year Ford Mustang, modified with the automatic transmission ECO 5.0L kit, and tested using the Cold-Start CVS-75 Federal Test Procedure (FTP) test cycle and the Supplemental Federal Test Procedure test cycle. Data is presented in grams per mile with 120k aged components.

CVS-75 FTP

	NMOG+NOx	CO	PM
Standards, Useful Life	0.125	2.1	0.003
Device Test	0.050	0.7	0.002

Useful Life SFTP	NMOG+NOx	CO
Emission Level (Composite Standard)	0.130 (BIN)	4.2
Device Test*	0.061	0.8

* Composite = 0.72*FTP+0.28*US06 (kit does not include air conditioner components)

Test results showed that the ECO 5.0L, when installed on the vehicle did not cause exhaust emissions to exceed the applicable 2020 model year Mustang 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 ECO 5.0L when installed on the test vehicle did not affect the vehicle's ability to perform its OBD II monitoring. Similar results would be expected on other applicable vehicles with either the automatic or manual transmission.

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 EMISSIONS COMPLIANT OFFERING (ECO) 5.0L.

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 on this 15th day of December 2020.

Allen Lyons, Chief
Emissions Certification and Compliance Division

	M-9000-M50AE - ECO 5.0L 10R Auto Kit Part Description	Part #
	Instruction Manual	
	Emissions Certification Label	
Engine		
	Engine - GEN 3 5.0L	M-6007-M50CAUTO
	Fuel Pressure Regulator and fitting kit (sealed no adjustment)	CM-9407-ECO50
	Air Cleaner assembly (with HC Trap)	FR3Z-9600-J
	Throttle body	KR3Z-9E926-A
	Alternator Kit	M-8600-M50ALTC
	Starter Kit	M-11000-C50A
Controls		
	Stand Alone PATs module	CM-19A366-A
	2018 5.0L Automatic PCM with Calibration	CM-12A650-AJANP
	2018 5L Control Pack Wire Harness	CM-14A006-50BAB
	2018 5L Automatic Transmission Harness	CM-14A006-ATRANS
	Ambient Air Temperature Sensor	FR3Z-12A647-B
	Pedal	CR3Z-9F836-C
	Ford Performance PROCAL Tool (for setting tire and axle config)	M-12655-F
Exhaust		
	Driver Side Catalyst with Integrated Header	JR3Z-5G232-B
	Passenger Side Catalyst	JR3Z-5E212-B
	O2 Sensors (upstream)	JR3A-9Y460-BC
	CMS Sensors	JR3Z-9G444-C
Transmission		
	Transmission 2018 5.0L 10R Automatic	JR3P-7000-ND
Evaporative		
	Purge Valve	JR3C-9D188-BC
	EVAP Canister	FR3C-9E857-AT

	M-9000-M50M - ECO 5.0L Manual Parts Description	Part #
	Instruction Manual	
	Emissions Certification Label	
Engine		
	Engine - GEN 3 5.0L	M-6007-M50C
	Fuel Pressure Regulator and fitting kit (sealed no adjustment)	CM-9407-ECO50
	Air Cleaner assembly (with HC Trap)	FR3Z-9600-J
	Throttle body	KR3Z-9E926-A
	Alternator Kit	M-8600-M50ALTC
	Starter Kit	M-11000-C50A
Controls		
	Stand Alone PATs module	CM-19A366-A
	2018 5.0L Manual PCM with Calibration	CM-12A650-AKANP
	2018 5L Control Pack Wire Harness	CM-14A006-50B
	2018 5L TRANS HARNESS	CM-14A006-MTRANS
	Ambient Air Temperature Sensor	FR3Z-12A647-B
	Pedal	CR3Z-9F836-C
	Ford Performance PROCAL Tool (for setting tire and axle config)	M-12655-F
Exhaust		
	Driver Side Catalyst with Integrated Header	JR3Z-5G232-B
	Passenger Side Catalyst (Exhast Manifold Included with Engine)	JR3Z-5E212-B
	O2 Sensors (upstream)	JR3A-9Y460-BC
	CMS Sensors	JR3Z-9G444-C
Transmission		
	Transmission 2018 5.0L Manual (Feature Car)	MR33-7003-A
Evaporative		
	Purge Valve	JR3C-9D188-BC
	EVAP Canister	FR3C-9E857-AT