

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-393-15

Relating to Exemptions under
Section 27156 of the Vehicle Code

Johnson Matthey
CCRT Particulate Filter

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 Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That installation of the Catalyzed Continuously Regenerating Technology (CCRT) Particulate Filter, manufactured by Johnson Matthey of 380 Lapp Road, Malvern, Pennsylvania 19355, has been found not to reduce the effectiveness of the applicable vehicle pollution control system, and therefore, the CCRT Particulate Filter is exempt from the prohibitions in Section 27156 of the Vehicle Code for installation on heavy-duty on-road vehicles equipped with 1991 through 2004 model-year 4-stroke diesel engines originally certified to meet a particulate matter emission standard of 0.10 grams per brake-horsepower-hour (g/bhp-hr) or lower.

This Executive Order includes engines originally certified to meet a non-methane hydrocarbons plus oxides of nitrogen emission standard of 2.5 g/bhp-hr or higher, including those engines equipped with an exhaust gas recirculation system.

This Executive Order excludes all engines equipped with an aftertreatment emission control system such as a catalytic converter or a diesel particulate filter.

This Executive Order is only valid provided the engines meet the following operating conditions: (1) the engine exhaust temperature is greater than or equal to 200 degrees Celsius for at least 40 percent of the typical duty cycle, (2) the NOx to PM ratio is at least 8, and (3) the engine is operated using diesel fuel with a maximum sulfur content of 50 parts per million by weight.

CCRT Particulate Filters exempted under this Executive Order are identified in Attachment A.

This Executive Order is based on emission and field tests conducted by Johnson Matthey with the CCRT Particulate Filter. Testing showed that the CCRT Particulate Filter does not adversely affect the exhaust emissions of the test engines. The same emission impact is expected when the CCRT Particulate Filter is installed on heavy-duty vehicles equipped with any of the engines listed above.

This Executive Order is valid provided that installation instructions for the CCRT Particulate Filter do not recommend tuning the engine to specifications different from those of the original engine manufacturer.

Changes made to the design or operating conditions of the CCRT Particulate Filter, as exempt by the Air Resources Board, which adversely affect the performance of the engine's pollution control system, shall invalidate this Executive Order.

Marketing of the CCRT Particulate Filter using identification other than that shown in this Executive Order or for an application other than that listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

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

This Executive Order does not constitute any opinion as to the effect the use of the CCRT Particulate Filter may have on any warranty either expressed or implied by the vehicle manufacturer.

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.

In addition to the foregoing, 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 California Code of Regulations, Title 13, 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 JOHNSON MATTHEY'S CCRT PARTICULATE FILTER.

Violation of any of the above conditions shall be grounds for revocation of this Executive Order. The Executive Order may be revoked only after a ten-day written notice of intention to revoke the Executive Order, in which period the holder of the Executive 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 Executive Order may not be revoked until a determination is made after a hearing that grounds for revocation exist.

Executed at El Monte, California, this 18TH day of April 2005.



Allen Lyons, Chief
Mobile Source Operations Division

Attachment A

Table 1

Engine HP	CCRT Part No.	
	Engine MY 1991-1993	Engine MY 1994-2004
150-230	CCRT 1234 IT	CCRT 1234 DW
230-330	CCRT 1234 MP	CCRT 1234 DW
330-425	CCRT 1234 NN	CCRT 1234 JT
425-660	CCRT 1234 MP	CCRT 1234 IT

Note: Table 1 identifies a matrix of CCRT Particulate Filter part numbers based on exhaust inlet/outlet configuration, catalyst substrate, and filter element for the engine horsepower ranges. The catalyst and filter substrate volume/density combinations specified above are the minimum catalyst and filter sizes Johnson Matthey will use on a given engine. Johnson Matthey may use a larger catalyst and/or filter for a given engine/vehicle combination.