

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-193-48  
Relating to Exemptions under Section 27156  
of the Vehicle Code

Car Sound Exhaust System, Inc.  
"Series 46000 OBD II Compliant Three-way Catalytic Converter"

WHEREAS, Vehicle Code Sections 27156 and Section 2222(h), Title 13, California Code of Regulations (hereafter "CCR"), authorize the California Air Resources Board and its Executive Officer to exempt new aftermarket catalytic converters from the prohibitions of Vehicle Code Section 27156.

WHEREAS, Car Sound Exhaust System, Inc. (Car Sound) of 22961 Arroyo Vista, Rancho Santa Margarita, California 92688, has applied to the Air Resources Board for exemption from the prohibitions in Vehicle Code Section 27156 to market its new aftermarket Series 46000 three-way catalytic converter (TWC) for installation on selected 1996 through 2001 model year Toyota passenger cars and category 1 light-duty trucks (LDT1) equipped with on-board diagnostic II (OBD-II) systems as specified in Appendix D-193-48 and incorporated herein. The Series 46000 TWC will be used for single (one unit) exhaust system applications for selected Toyota passenger cars and LDT1.

Series 46000 TWC may also be installed on non-OBD II vehicles (1995 and older) similar in engine and exhaust configuration to those listed in Appendix D-193-48.

WHEREAS, pursuant to the authority vested in the Executive Officer by Health and Safety Code Section 39515 and in the Chief, Mobile Source Operations Division by Health and Safety Code Section 39516 and Executive Order G-02-003, Air Resources Board finds that the above aftermarket catalytic converter complies with the California Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h). The emissions performance of the catalytic converter was based on durability bench-aging by Delphi Energy and Chassis Systems using Air Resources Board-modified RAT-A bench-aging cycle for 75 hours, as specified in the "Optional Evaluation Procedures for New Aftermarket Non-original Equipment Catalytic Converters Equipped with On-Board Diagnostic II (OBD II) Systems."

WHEREAS, previous emissions and OBD II compatibility tests conducted by Car Sound Exhaust System, Inc. using a vehicle of a weight classification and exhaust configuration similar to those listed in Appendix D-193-48 and certified to Low Emission Vehicle (LEV) standards resulted in the issuance of Executive Order D-193-41, it was determined that the installation of Series 46000 TWC on the vehicles listed in Appendix D-193-48 meets the requirements of California regulations for aftermarket catalytic converters.


IT IS HEREBY RESOLVED that the above catalytic converter is exempt from the prohibitions in Vehicle Code Section 27156 for installation on the vehicles listed in Appendix D-193-48 subject to the following conditions:

1. No changes are permitted to the catalytic converter as described in the application for exemption. Any changes to the catalytic converter or any of its components, and other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.
2. Marketing of the catalytic converter using identifications other than those shown in the exemption application, and in this Executive Order, or marketing of the catalytic converter for application other than the ones shown in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of these products shall not be construed as an exemption to sell, offer for sale, or advertise any components of the catalytic converter as individual devices.
3. Any oral or written references to this Executive Order or its content by Car Sound Exhaust System, Inc., its principals, agents, employees, distributors, dealers, or other representatives must include the disclaimer that the Executive Order or the exemption it provides is not an endorsement or approval of any emission reduction claims for the catalytic converter and is only a finding that the catalytic converter is exempt from the prohibitions of Vehicle Code Section 27156.
4. Car Sound Exhaust System, Inc.'s installation instructions for the new catalytic converter must conform to requirements in Paragraphs I and X of the "Optional Evaluation Procedures for New Aftermarket Non-original Equipment Catalytic Converters Equipped with On-Board Diagnostic II (OBD II) Systems."
5. Upon installation, the catalytic converter must carry a manufacturer's warranty for 50,000 miles on the substrates and 50,000 miles or five years on the shell and end pipes.
6. Car Sound Exhaust System, Inc. and its vendors may not advertise the new aftermarket catalytic converter as a "high or easy flow" catalytic converter or use any phrase that could make them appear to perform better than an OEM catalytic converter.
7. The new aftermarket catalytic converter substrate may not be sold or supplied to a third party by Car Sound, its associates, vendors, other businesses, and individuals associated with Car Sound, to be assembled in a different facility and marketed under this Executive Order.
8. Any marketing arrangement of the new aftermarket catalytic converter by a third party, which involves the use of packaging identification different from the ones described in this Executive Order must be approved by Air Resources Board prior to shipment.
9. Car Sound must submit the required quality audit and production quantity reports for its aftermarket catalytic converter semi-annually, covering the periods January 1 through June 30, and July 1 through December 31.

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 it, during 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.

Executive Order D-193-42 dated January 16, 2007, is hereby superseded and of no further force and effect.

Executed at El Monte, California, this 18<sup>th</sup> day of June 2007.

  
for Annette Hebert, Chief  
Mobile Source Operations Division

Car Sound Exhaust System, Inc. Series 46000 Toyota Light Duty Vehicles

No.	Model Year	Make	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Converter Type	Total Converters	Monitored	Universal	Direct Fit
1			Terrel	1.5L	TTY1.5VHGFEK		PC					46004	46898
			Paseo	1.8L									46886
			Celica	1.6L	TTY1.8VJG1GK								46892
2			Corolla, Corolla Wagon	3.0L	TTY3.0VJG1GK								46882
3	1996		Camry, Camry Wagon	2.4L	TTY2.41HGKEK								46609
4			Avalon, ES 300	2.7L	TTY2.71HGKEK								46882
5			Tacoma 2WD	3.4L	TTY3.41JG1GK								46882
6			Tacoma 4WD, 4-RUNNER 2WD	2.4L	TTY2.41HGKEK								46882
7			T100 PU 2WD	3.4L	TTY3.41JG1GK								46882
8			Tacoma 2WD	2.4L	TTY2.41HGKEK								46882
9			T100 PU 2WD	2.7L	TTY2.71HGKEK								46882
10			Tacoma 4WD, 4-RUNNER 2WD	3.4L	TTY3.41JG1GK								46882
11	1997		Tacoma 2WD/4WD	1.5L	TTY1.5VJGKEK								46886
12			Terrel, Paseo, Paseo Convertible	1.8L/1.6L	TTY1.8VJGKEK								46880
13			Corolla, Celica	3.0L	TTY3.0VJGKFK								46882
14			Camry, ES 300, Avalon	2.7L	WTYX02.7BBH								46882
15			4Runner 2WD, TACOMA 4WD	1.5L	WTYX01.5BBA								46882
16	1998	Toyota	Tacoma 4WD, T100 2WD	1.8L	WTYX01.8DXB								46881
17			Terrel, Paseo, Paseo Convertible	1.5L	XYXV01.5BBA								46898
18			Corolla	1.8L	XYXV01.8DXB								46881
19			Terrel	1.5L	XYXV01.5BBA								46898
20	1999		Paseo, Paseo Convertible	2.7L	XYXT02.7BBH								46882
21			Tacoma 2WD/4WD	1.8L	XYXV01.8DXB								46881
22			Corolla	3.0L	XYXV03.0BBA								46880
23			Camry	1.5L	YTYXV01.5FFA								46610
24			Solara	1.8L	YTYXV01.8FFA								46881
25			Corolla	3.0L	YTYXV03.0BBA								46880
26	2000		Camry	1.8L	YTYXV01.8DDC								46610
27			Solara	1.5L	1TYXV01.5FFA								46611
28	2001		Celica	3.0L	1TYXV03.0BBA								46880
29			Echo	1.8L	1TYXV01.8DDB								46610
30			Camry	1.5L	1TYXV01.5FFA								46611
31			Solara	3.0L	1TYXV03.0BBA								46880
32			Celica	1.8L	1TYXV01.8DDC								46610
33			Echo	1.5L	1TYXV01.5FFA								46611
34			Camry	3.0L	1TYXV03.0BBA								46880
35			Solara	1.8L	1TYXV01.8DDB								46610
36			Celica	1.5L	1TYXV01.5FFA								46611
37	1997		Camry	3.0L	1TYXV03.0BBA								46880
38			Solara	1.8L	1TYXV01.8DDB								46610
39	1998		Celica	1.8L	1TYXV01.8DDB								46610

Additional Vehicles 1

31			Paseo	1.5L	STY1.5VHGFEK		PC					46004	46898
32			Tacoma	2.4L	STY2.41HG1GK		LDT1						TBD
33			T100	2.7L	STY2.71HGEEK		PC						46892
34	1995		Camry, ES300, Avalon	3.0L	STY3.0VJGFEK								TBD
35			T100	3.4L	STY3.41JG1GK								TBD
36			Tacoma	3.4L	STY3.41JGFEK								TBD
37	1997		Tacoma 4Wd	2.7L	WTY2.71JG2GK		LDT1						TBD
38			Tacoma 2Wd	2.4L	WTYX02.4BBH								TBD
39	1998		Tacoma 4Wd	2.7L	WTYX02.7DXH								TBD

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No.	Model Year	Make	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Converter Type	Total Converters	Monitored	Universal	Direct Fit
40	1998	Toyota	Tacoma 2Wd	3.4 L	WTYXT03.4BBH	T1	LDT1	S	1	TWC	1	46005	TBD
41			Camry	3.0 L	WTYXV03.0BBA		PC						46880
42	1999		Tacoma 2Wd	2.4 L	XTYXT02.4BBH	T1	LDT1						TBD
43			Tacoma 4Wd	2.7 L	XTYXT02.7DXJ								TLEV
44	2001		Tacoma 2Wd	3.4 L	XTYXT03.4BBH	T1	PC					46004	46881
45			Corolla	1.8 L	1TYXV01.8FFA	LEV							46881
46	2002		Echo	1.5 L	2TYXV01.5FFA	TLEV	PC					46004	46611
47			Celica	1.8 L	2TYXV01.8DDB								46610
48			Celica	1.8 L	2TYXV01.8DDC	LEV							46881
49			Corolla	1.8 L	2TYXV01.8FFA	T1							46880
50		Camry Solara M/T	3.0 L	2TYXV03.0BBC	LEV	46163							
51	2003	Echo	1.5 L	3TYXV01.5FFA	LEV	46163	TBD						