

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-193-40  
Relating to Exemptions under Section 27156  
of the Vehicle Code

Car Sound Exhaust System, Inc.  
"THREE-WAY CATALYTIC CONVERTER SERIES 43000"

WHEREAS, Vehicle Code Sections 27156, and Title 13, California Code of Regulations (hereafter "CCR") Section 2222(h), 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 Sections 27156 to market its new aftermarket series 43000 three-way catalytic converter (TWC) for 2002 and older General Motors trucks equipped with an on-board diagnostic II (OBD-II) system as specified in Appendix D-193-40 and incorporated herein. The application coverage excludes vehicles equipped with a warm-up catalyst. Series 43000 TWC will be used in dual parallel underbody or single underbody vehicle applications. Series 43000 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-193-40.

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, the 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 Engine and Chassis Systems using the ARB-modified RAT-A bench-aging cycle for 100 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, emissions tests conducted at the Automotive Testing and Development Services, Ontario, California, using a 1999 5.7L Chevrolet Tahoe, test group XGMXA05.7185, certified to the Medium-Duty Vehicle 2, Low Emission Vehicle emission standards (MDV2, LEV), showed that the vehicle met the applicable emission standards with Series 43000 TWC (2 units) installed. The following are the test results in grams per mile:

	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>
MDV2 120K LEV standards	0.230	6.4	0.6
Average Series 43000 TWC Test Results	0.125	2.5	0.2

IT IS HEREBY RESOLVED that the above catalytic converter is exempt from the prohibitions in Vehicle Code Section 27156 for installation on the approved vehicle applications specified in Appendix D-193-40 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 this product 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 it appear to perform better than an OEM catalytic converter.
7. Car Sound Exhaust System, Inc., its associates, vendors, other businesses, and individuals may not sell or supply the substrate of the new aftermarket catalytic converter to a third party to be assembled in a different facility and marketed under this Executive Order.

8. Any marketing arrangement of the new aftermarket catalytic converters by a third party, which involves the use of packaging identification different from the ones described in this Executive Order, must be approved by the Air Resources Board prior to shipment.
9. Car Sound must submit the required quality audit and production quantity reports for its aftermarket catalytic converter on a semi-annual basis, covering the periods January 1 through June 30, and July 1 through December 31.

Executive Order D-193-36 dated July 18, 2006, is hereby superseded and of no further force and effect.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after 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.

Executed at El Monte, California, this 20 day of December 2006.



Annette Hebert, Chief  
Mobile Source Operations Division

DEC 01 2005

Car Sound Exhaust System, Inc. Series 43000 for GM LDT2 and MDV's Trucks

Division Chief MSOD (AG)

No.	Model Year	Make	Vehicle Model	Engine Size	Engine Family	Cert. Level	Weight Class	Exhaust Type	Converter Type	Total Converters	Monitored Converters	Universal	Direct Fit
1			PU 1500/2500	4.3L	TGM4.38PGBEK	Tier 1	MDV3	S	TWC	1	1	43009	43457
			VAN				43009					43414	
			G1500/2500/3500										
2			S-10 Pickup 2WD, Sonoma Pickup 2WD	4.3L	TGM4.32PGKEK	Tier 1	LDT2	S	TWC	1	1	43006	43484
			S-10 Blazer, S-15 Jimmy										
3			Astro/Safari		TGM4.35PGFEK							43009	43410
4			PU 1500/2500 2WD	5.0L	TGM5.0HPG1EK	Tier 1	MDV2					43009	43457
			VAN G1500/2500									43009	43414
5			PU 1500/2500 4WD		TGM5.0JPG1EK		MDV3					43009	43457
6	1996	GM	PU 1500/2500 2WD/4WD	5.7L	TGM5.75PGFEK	Tier 1	MDV2		TWC	2	2	43004	43453
			VAN G2500/3500 Driver side									43006	43415
			VAN G2500/3500 Passenger side				43006					43413	
			PU 3500 2WD				43006					43453	
			Suburban, Tahoe, Yukon, Escalade				43006					43453	
7			PU 3500 4WD		TGM5.7JPG1EK		MDV3	D	TWC	2	2	43006	43453
8			PU 2500/3500 2WD/4WD									43006	43470/43471
9			VAN G2500/3500 Front/Rear	7.4L	TGM7.4J8G1EK	Tier 1	MDV3					43009	43416
			VAN G2500/3500 Driver side									43009	43417
			VAN G2500/3500 Passenger side									43006	43470/43471
			Suburban, Tahoe, Escalade Front/Rear									43006	43470/43471

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Car Sound Exhaust System, Inc. Series 43000 for GM LDT2 and MDV's Trucks

No.	Model Year	Make	Vehicle Model	Engine Size	Engine Family	Cert. Level	Weight Class	Exhaust Type	Converter Type	Total Converters	Monitored Converters	Universal	Direct Fit
10			PU 1500/2500		VGM4.3HPG1EK	Tier 1	MDV2					43009	43457
												43009	43414
												43009	43414
												43009	43410
11			VAN G1500/2500		VGM4.3JPG1EK	Tier 1	MDV3					43009	43410
												43009	43410
12			Astro/Savana		VGM4.32PG2EK	TLEV	LDT2					43009	43410
												43009	43410
13			S-10 Blazer, S-15 Jimmy, S-10, S-15 PU		VGM4.3HPG3EK	LEV	MDV2					43009	43410
												43009	43410
14			S-10 Blazer, S-15 Jimmy, S-10, S-15 PU		VGM4.32PG1EK		LDT2	S	TWC	1	1	43006	43484
												43006	43484
15			PU 1500/2500 2WD		VGM5.0HPG1EK	Tier 1	MDV2					43009	43457
												43009	43414
16			VAN G1500/2500		VGM5.0HPG1EK		MDV2					43009	43457
												43009	43457
17	1997	GM	VAN 1500/2500 4WD		VGM5.0JPG1EK		MDV3					43009	43414
												43009	43414
18			VAN G2500/3500 Driver side		VGM5.7JPG1EK		MDV2					43006	43413
												43006	43413
19			VAN G2500/3500 Passenger side		VGM5.7JPG1GK		MDV3					43004	43453
												43004	43453
20			Suburban, Tahoe, Yukon, Escalade		VGM5.7HPG1EK	Tier 1	MDV2	D	TWC	2	2	43004	43453
												43004	43453
20			Suburban, Tahoe, Yukon, Escalade		VGM7.4JPG1EK		MDV3					43006	43470/43471
												43006	43470/43471
20			PU 2500/3500 2WD/4wd Front/Rear		VGM7.4JPG1EK		MDV3					43009	43416
												43009	43416
20			VAN G2500/3500 Driver side		VGM7.4JPG1EK		MDV3					43009	43417
												43009	43417
20			VAN G2500/3500 Passenger side		VGM7.4JPG1EK		MDV3					43006	43470/43471
												43006	43470/43471
20			Suburban, Tahoe, Yukon, Escalade		VGM7.4JPG1EK		MDV3					43006	43470/43471
												43006	43470/43471

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Car Sound Exhaust System, Inc. Series 43000 for GM LDT2 and MDV's Trucks

No.	Model Year	Make	Vehicle Model	Engine Size	Engine Family	Cert. Level	Weight Class	Exhaust Type	Converter Type	Total Converters	Monitored Converters	Universal	Direct Fit
21			PU 1500/2500		WGMXA04.3190	Tier 1	MDV2	S	TWC	1	1	43009	43457
			VAN G1500/2500/3500		WGMXT04.3192		MDV3					43009	43414
22			Astro/Savana	4.3L	WGMXA04.3188	LEV	MDV2					43009	43410
23			S-10 Pickup 2WD/Sonoma Pickup 2WD		WGMXT04.3187	TLEV						43009	43410
24			S-15 Jimmy										
25			PU 1500/2500		WGMXT04.3184		LDT2					43006	43468
26			PU 1500/2500	5.0L	WGMXA05.0182	Tier 1						43006	43455
27			PU 1500/2500		WGMXA05.0184		MDV2					43009	43414
28			PU 1500/2500/3500		WGMXA05.7182		MDV3					43009	43457
29			PU 1500/2500/3500		WGMXA05.7184		MDV2					43004	43453
30	1998	GM	Suburban, Tahoe, Yukon, Escalade	5.7L	WGMXA05.7185		MDV3					43004	43453
31			VAN G2500/3500 Driver side		WGMXA05.7186	LEV		D	TWC	2	2	43006	43413
			VAN G2500/3500 Passenger side									43004	43453
			Suburban, Tahoe, Yukon, Escalade									43004	43453
			PU 1500/2500/3500									43004	43453
32			PU 2500/3500 Front/Rear		WGMXA05.7187		MDV3					43004	43453
33			VAN G2500/3500 Driver side	7.4L	WGMXA07.4201	Tier 1						43006	43470/43471
			VAN G2500/3500 Passenger side									43009	43416
			Suburban, Tahoe, Yukon, Escalade									43009	43417
												43006	TBD

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Car Sound Exhaust System, Inc. Series 43000 for GM LDT2 and MDV's Trucks

No.	Model Year	Make	Vehicle Model	Engine Size	Engine Family	Cert. Level	Weight Class	Exhaust Type	Converter Type	Total Converters	Monitored Converters	Universal	Direct Fit
34	1999	GM	PU 1500/2500	4.3L	XGMXA04.3194	LEV	MDV2	D	TWC	2	2	43006	43419
												43006	43419
												43006	43419
												43009	43414
												43009	43414
												43009	43414
												43009	43410
												43009	43410
												43009	43457
												43009	43414
35	1999	GM	PU 1500/2500	4.8L	XGMXA04.3195	Tier 1	MDV2	D	TWC	2	2	43006	43419
												43006	43419
												43006	43419
												43009	43414
												43009	43414
												43009	43414
												43009	43410
												43009	43410
												43009	43457
												43009	43414
36	1999	GM	VAN G1500/2500	4.3L	XGMXA04.3192	LEV	MDV2	S	TWC	1	1	43009	43414
												43009	43414
												43009	43414
												43009	43414
												43009	43414
												43009	43414
												43009	43410
												43009	43410
												43009	43457
												43009	43414
37	1999	GM	VAN G3500	4.3L	XGMXA04.3188	LEV	MDV3	S	TWC	1	1	43009	43410
												43009	43410
												43009	43410
												43009	43410
												43009	43410
												43009	43410
												43009	43410
												43009	43410
												43009	43457
												43009	43414
38	1999	GM	Astro/Savana	5.0L	XGMXA05.0182	Tier 1	MDV2	S	TWC	1	1	43009	43414
												43009	43414
												43009	43414
												43009	43414
												43009	43414
												43009	43414
												43009	43414
												43009	43414
												43009	43457
												43009	43414
39	1999	GM	PU 1500/2500	5.3L	XGMXA05.3183	LEV	MDV2	S	TWC	1	1	43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
40	1999	GM	PU 1500/2500	5.3L	XGMXA05.3185	LEV	MDV3	S	TWC	1	1	43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
												43006	43419
41	1999	GM	PU 1500/2500/3500	6.0L	XGMXA06.0182	Tier 1	MDV3	S	TWC	2	2	43006	43415
												43006	43415
												43006	43415
												43006	43415
												43006	43415
												43006	43415
												43006	43415
												43006	43415
												43006	43415
												43006	43415
42	1999	GM	PU 1500/2500/3500	5.7L	XGMXA05.7187	Tier 1	MDV2	S	TWC	2	2	43004	43453
												43004	43453
												43004	43453
												43004	43453
												43004	43453
												43004	43453
												43004	43453
												43004	43453
												43004	43453
												43004	43453
43	1999	GM	PU 1500/2500/3500	5.7L	XGMXA05.7185	LEV	MDV2	S	TWC	2	2	43006	43413
												43006	43413
												43006	43413
												43004	43453
												43004	43453
												43004	43453
												43004	43453
												43004	43453
												43004	43453
												43004	43453
44	1999	GM	VAN G2500/3500	5.7L	XGMXA05.7186	LEV	MDV2	S	TWC	2	2	43009	43416
												43009	43416
												43009	43416
												43009	43416
												43009	43416
												43009	43416
												43009	43416
												43009	43416
												43009	43416
												43009	43416
45	1999	GM	VAN G2500/3500	5.7L	XGMXA05.7187	LEV	MDV2	S	TWC	2	2	43006	43417
												43006	43417
												43006	43417
												43006	43417
												43006	43417
												43006	43417
												43006	43417
												43006	43417
												43006	43417
												43006	43417
46	1999	GM	VAN G2500/3500	5.7L	XGMXA05.7188	LEV	MDV2	S	TWC	2	2	43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
47	1999	GM	VAN G2500/3500	6.0L	XGMXA06.0183	Tier 1	MDV3	S	TWC	2	2	43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
48	1999	GM	VAN G2500/3500	6.0L	XGMXA06.0183	Tier 1	MDV3	S	TWC	2	2	43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
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												43006	TBD
												43006	TBD
49	1999	GM	VAN G2500/3500	7.4L	XGMXA07.4201	Tier 1	MDV3	S	TWC	2	2	43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
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												43006	TBD
												43006	TBD
50	1999	GM	VAN G2500/3500	7.4L	XGMXA07.4201	Tier 1	MDV3	S	TWC	2	2	43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
51	1999	GM	VAN G2500/3500	7.4L	XGMXA07.4201	Tier 1	MDV3	S	TWC	2	2	43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
52	1999	GM	VAN G2500/3500	7.4L	XGMXA07.4201	Tier 1	MDV3	S	TWC	2	2	43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD
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												43006	TBD

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Car Sound Exhaust System, Inc. Series 43000 for GM LDT2 and MDV's Trucks

No.	Model Year	Make	Vehicle Model	Engine Size	Engine Family	Cert. Level	Weight Class	Exhaust Type	Converter Type	Total Converters	Monitored Converters	Universal	Direct Fit
53		GM	PU 1500/2500	4.3L	YGMXA04.3190	LEV	MDV2	D	TWC	2	2	43006	43419
													43006
													43006
													43006
													43006
													43006
													43004
													43009
													43004
													43006
54		GM	PU 1500/2500	5.3L	YGMXA05.3183	LEV	MDV3			1	1	43004	TBD
													43009
													43004
													43006
													43006
													43006
													43004
													43009
													43004
													43006
55		GM	Suburban, Tahoe, Yukon, Escalade	5.7L	YGMXA05.7194	Tier 1	MDV2	S	TWC	1	1	43009	43414
													43004
													43006
													43006
													43006
													43006
													43004
													43009
													43004
													43006
56		GM	Suburban, Tahoe, Yukon, Escalade	6.0L	YGMXA05.7191	Tier 1	MDV3			1	1	43006	TBD
													43009
													43004
													43006
													43006
													43006
													43004
													43009
													43004
													43006
57		GM	Suburban, Tahoe, Yukon, Escalade	7.4L	YGMXA07.4201	Tier 1	MDV3	D	TWC	2	2	43006	43416
													43009
													43004
													43006
													43006
													43006
													43004
													43009
													43004
													43006
58		GM	Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA04.3190	LEV	MDV2	D	TWC	2	2	43006	43419
													43009
													43009
													43009
													43009
													43009
													43009
													43009
													43009
													43009
59		GM	Suburban, Tahoe, Yukon, Escalade	5.0L	YGMXA05.0181	Tier 1	MDV2	S	TWC	1	1	43009	43414
													43009
													43009
													43009
													43009
													43009
													43009
													43009
													43009
													43009
60		GM	Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA05.3184	LEV	MDV3	D	TWC	2	2	43006	43419
													43009
													43009
													43009
													43009
													43009
													43009
													43009
													43009
													43009
61		GM	Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA05.3184	LEV	MDV3	D	TWC	2	2	43006	43419
													43009
													43009
													43009
													43009
													43009
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													43009
													43009
													43009
62		GM	Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA05.3184	LEV	MDV3	D	TWC	2	2	43006	43419
													43009
													43009
													43009
													43009
													43009
													43009
													43009
													43009
													43009
63		GM	Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA05.3184	LEV	MDV3	D	TWC	2	2	43006	43419
													43009
													43009
													43009
													43009
													43009
													43009
													43009
													43009
													43009
64		GM	Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA05.3184	LEV	MDV3	D	TWC	2	2	43006	43419
													43009
													43009
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													43009
													43009
													43009
													43009
													43009
													43009
65		GM	Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA05.3184	LEV	MDV3	D	TWC	2	2	43006	43419
													43009
													43009
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													43009
66		GM	Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA05.3184	LEV	MDV3	D	TWC	2	2	43006	43419
													43009
													43009
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													43009
													43009
													43009
													43009
													43009
67		GM	Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA05.3184	LEV	MDV3	D	TWC	2	2	43006	43419
													43009
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68		GM	Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA05.3184	LEV	MDV3	D	TWC	2	2	43006	43419
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69		GM	Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA05.3184	LEV	MDV3	D	TWC	2	2	43006	43419
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APPENDIX D-193-40

Car Sound Exhaust System, Inc. Series 43000 for GM LDT2 and MDV's Trucks

No.	Model Year	Make	Vehicle Model	Engine Size	Engine Family	Cart. Level	Weight Class	Exhaust Typs	Converter Type	Total Converters	Monitored Converters	Universal	Direct Fit
70	2002	GM	CHEVROLET G1500/2500 EXPRESS PASS 2WD, CHEVROLET G1500/2500 VAN CARGO 2WD, GMC G1500/2500 SAVANA CARGO 2WD, GMC G1500/2500 SAVANA PASS 2WD	5.7	2GMXA06;0194	LEV	MDV3	D	TWC	2	2	43006	TBD
			GMC K1500 YUKON DENALI AWD, K1500 SIERRA DENALI AWD, CADILLAC ESCALADE AWD GMC K1500 YUKON XL AWD, CADILLAC ESCALADE XLT, EXT										
71			Chevrolet Trailblazer 2wd/4wd, GMC Envoy 2wd/4wd, Oldmobile Bravada 2wd/4wd	4.2	2GMXT04;2185		LDT2	S		1	1	TBD	