

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-193-51
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 selected 2003 and older General Motors trucks equipped with an on-board diagnostic II (OBD-II) system as specified in Appendix D-193-51 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-193-51.

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-193-51 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-193-40 dated December 20, 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 3rd day of August 2007.


Annette Hebert, Chief
Mobile Source Operations Division

APPENDIX D-193-51

Car Sound Exhaust System, Inc. Series 43000 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			
1	1996	GM	PU 1500/2500 VAN	4.3L	TGM4.38PGBEK	Tier 1	MDV3	S	TWC	1	1	43009	43457			
			G1500/2500/3500				43009					43414				
2			S-10 Pickup 2WD, Sonoma Pickup 2WD		TGM4.32PGKEK		LDT2					43006	43484			
			S-10 Blazer, S-15 Jimmy									43006	43455			
3			Astro/Safari	TGM4.35PGFEK			43009	43410								
4			PU 1500/2500 2WD	TGM5.0HPG1EK	MDV2		43009	43457								
			VAN G1500/2500				43009	43414								
5			PU 1500/2500 4WD	TGM5.0JPG1EK	MDV3		43009	43457								
			PU 1500/2500 2WD/4WD				43004	43453								
6			VAN G2500/3500 Driver side	TGM5.75PGFEK	MDV2		43006	43415								
			VAN G2500/3500 Passenger side				43006	43413								
7			PU 3500 2WD	TGM5.76PGFEK			43006	43453								
	Suburban, Tahoe, Yukon, Escalade				43006		43453									
8	PU 3500 4WD		TGM5.7JPG1EK		43006		43453									
	PU 2500/3500 2WD/4WD				43006		43470/43471									
9	VAN G2500/3500 Front/Rear			MDV3	43009		43416									
	VAN G2500/3500 Driver side		TGM7.4J8G1EK		43009		43417									
	VAN G2500/3500 Passenger side				43009		43417									
	Suburban, Tahoe, Escalade Front/Rear				43006		43470/43471									
10	1997		PU 1500/2500	4.3L	VGM4.3HPG1EK		Tier 1	MDV2	S	TWC	1	1	43009	43457		
			VAN G1500/2500		VGM4.3JPG1EK	MDV3		43009					43414			
11			VAN G3500		VGM4.32PG2EK	LDT2		43009					43410			
12			Astro/Savana		VGM4.3HPG3EK	MDV2		43009					43410			
13																

APPENDIX D-193-51

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14	1997	GM	S-10 Blazer, S-15 Jimmy, S-10, S-15 P/U	4.3L	VGMM4.32PG1EK	Tier 1	LDT2	S	TWC	1	1	43006	43484
15			PU 1500/2500 2WD	VGMM5.0HPG1EK	MDV2		43009					43457	
			VAN G1500/2500	VGMM5.0JPG1EK	MDV3		43009					43414	
16			PU 1500/2500 4WD	VGMM5.0JPG1EK	MDV3		43009					43457	
			VAN G3500	VGMM5.0JPG1EK	MDV3		43009					43414	
			VAN G2500/3500 Driver side	VGMM5.7JPG1EK	MDV2		43006					43415	
17			VAN G2500/3500 Passenger side	VGMM5.7JPG1EK	MDV2		43006					43413	
			Suburban, Tahoe, Yukon, Escalade	VGMM5.7JPG1EK	MDV3		43004					43453	
			VAN G2500/3500 Driver side	VGMM5.7JPG1EK	MDV3		43006					43415	
18			Suburban, Tahoe, Yukon, Escalade	VGMM5.7JPG1EK	MDV3		43004					43453	
			VAN G2500/3500 Passenger side	VGMM5.7JPG1EK	MDV3		43006					43413	
19	Suburban, Tahoe, Yukon, Escalade	VGMM5.7HPG1EK	MDV2	43004	43453								
	PU 1500/2500/3500 2WD/4WD	VGMM5.7HPG1EK	MDV2	43004	43453								
20	1998	GM	PU 2500/3500 2WD/4wd Front/Rear	7.4L	VGMM7.4J8G1EK	Tier 1	MDV3	D	TWC	2	2	43006	43470/43471
			VAN G2500/3500 Driver side				MDV3					43009	43416
			VAN G2500/3500 Passenger side				MDV3					43009	43417
			Suburban, Tahoe, Yukon, Escalade				MDV3					43006	43470/43471
21			PU 1500/2500				MDV2					43009	43457
			VAN G1500/2500/3500				MDV3					43009	43414
22			Astro/Savana				MDV2					43009	43410
23							MDV2					43009	43410
24							MDV2					43009	43410
							MDV2					43009	43410
							MDV2					43009	43410

APPENDIX D-193-51

Car Sound Exhaust System, Inc. Series 43000 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	
25	1998	GM	S-10 Pickup 2WD/Sonoma Pickup 2WD	4.3L	WGMMXT04.3184	Tier 1	LDT2	S	TWC	1	1	43006	43468	
26			S-15 Jimmy	WGMMXA05.0182	MDV2		43006					43455		
27			PU 1500/2500	WGMMXA05.0184	MDV3		43009					43414		
28			PU 1500/2500/3500	WGMMXA05.7182	MDV2		43004					43453		
29			PU 1500/2500/3500	WGMMXA05.7184	MDV3		43004					43453		
30	Suburban, Tahoe, Yukon, Escalade		WGMMXA05.7185	MDV2	43006	43415								
31	Driver side		LEV	WGMMXA05.7186	D	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		Tier 1	MDV3	D	2	2	43006	43470/43471					
33	VAN G2500/3500 Driver side							43009	43416					
	VAN G2500/3500 Passenger side							43009	43417					
	Suburban, Tahoe, Yukon, Escalade							43006	TBD					
	34							PU 1500/2500	43006	43419				
35	1999		4.3L	XGMMXA04.3195	LEV	MDV2	D	2	43006	43419				
36									VAN G1500/2500	43006	43419			
37									VAN G3500	43009	43414			
38									Astro/Savana	43009	43414			
39										43009	43410			
40					4.3L	XGMMXA04.3188	LEV	MDV2	S		1	1	43009	43410
					XGMMXT04.3187	TLEV	LDT2							

APPENDIX D-193-51

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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			
41	1999	GM	PU 1500/2500	5.0L	XGMAXA05.0182	Tier 1	MDV2	S	TWC	1	1	43009	43457			
			VAN G1500/2500		XGMAXA05.0184		MDV3					43009	43414			
42			VAN G3500		XGMAXA05.0184	MDV3	43009					43457				
			PU 1500/2500		XGMAXA05.3183	MDV2	43009					43414				
43				XGMAXA05.3185	MDV3	43006	43419									
44			PU 3500	XGMAXA05.7182	MDV2	43006	43419									
45			PU 1500/2500/3500	XGMAXA05.7187	MDV2	43004	43453									
46			PU 3500	XGMAXA06.0182	MDV3	43006	43453									
47			PU 1500/2500/3500	XGMAXA06.0183	MDV3	43006	TBD									
48			PU 3500	XGMAXA06.0183	MDV3	43006	TBD									
49	1999	GM	VAN G2500/3500 Driver side	5.7L	XGMAXA05.7185	LEV	MDV2	D	TWC	2	2	43006	43413			
			VAN G2500/3500 Passenger side		XGMAXA05.7186		MDV3					43004	43453			
50			Suburban, Tahoe, Yukon, Escalade		XGMAXA05.7187	MDV3	43004					43453				
51			VAN G2500/3500 Driver side		XGMAXA07.4201	MDV3	43009					43416				
52																
53	2000	GM	PU 1500/2500	4.3L	YGMXA04.3190	LEV	MDV2	D	TWC	2	2	43006	43419			
54					YGMXT04.3184	Tier 1	MDV2					43006	43419			
55					YGMXA05.3181	Tier 1	MDV2					43006	43419			
56					YGMXA05.3183	LEV	MDV3					43006	43419			
57				YGMXA05.3184	LEV	MDV3	43006	43419								
58				YGMXA05.7194	LEV	MDV2	43006	43419								
59				YGMXT05.7189	LEV	MDV2	43006	43419								
60				VAN G2500/3500	5.7L	YGMXA05.7188	Tier 1	MDV2		S	43009	43414				
				PU 2500/3500	6.0L	YGMXA05.7191	Tier 1	MDV3		D	43004	43453				
61					PU 2500	6.0L	YGMXA05.7191	Tier 1		MDV3	D	43006	TBD			

APPENDIX D-193-51

Car Sound Exhaust System, Inc. Series 43000 GM LD/2 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
62	2000	GM	Suburban, Tahoe, Yukon, Escalade	6.0L	YGMXT06.0192	Tier 1	MDV3	D		2	2	43006	TBD
			PU 2500/3500									43006	43470/43471
			Front/Rear									43009	43416
			VAN G2500/3500	7.4L	YGMXA07.4201							43009	43417
			Driver side									43006	43419
63	2001	GM	VAN G2500/3500			Tier 1	MDV2	S		1	1	43009	43414
			Passenger side									43009	43414
			PU 1500/2500	4.3L	1GMXA04.3190							43006	43419
			VAN G1500/2500		1GMXA04.3192							43009	43414
			VAN G1500/2500		1GMXA05.0181							43009	43414
64	2001	GM	VAN G3500	5.0L	1GMXA05.0182	Tier 1	MDV3	D		2	2	43006	43419
65			Suburban, Tahoe, Yukon, Escalade	5.3L	1GMXA05.3184							43006	43419
66			CHEVROLET									43006	43419
67			G1500/2500									43006	43419
68			EXPRESS PASS									43006	43419
69	2002	GM	2WD, CHEVROLET	5.7		LEV	MDV3	D		2	2	43006	TBD
			G1500/2500									43006	TBD
			CARGO 2WD, GMC									43006	TBD
			G1500/2500									43006	TBD
			SAVANNA CARGO									43006	TBD
70	2002	GM	2WD, GMC	6.0		LEV	MDV3	D		2	2	43006	TBD
			G1500/2500									43006	TBD
			SAVANNA PASS									43006	TBD
			GMC K1500									43006	TBD
			YUKON DENALI									43006	TBD
	2002	GM	AWD, K1500			LEV	MDV3	D		2	2	43006	TBD
			SIERRA DENALI									43006	TBD
			AWD, CADILLAC									43006	TBD
			ESCALADE AWD									43006	TBD
			GMC K1500									43006	TBD
	2002	GM	YUKON XL AWD, CADILLAC			LEV	MDV3	D		2	2	43006	TBD
			ESCALADE XLT, EXT									43006	TBD
												43006	TBD
												43006	TBD
												43006	TBD

APPENDIX D-193-51

Car Sound Exhaust System, Inc. Series 43000 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
71	2002	GM	Chevrolet Trailblazer 2wd/4wd, GMC Envoy 2wd/4wd, Oldmobile Bravada 2wd/4wd	4.2	2GMMXT04.2185	LEV	LDT2	S	TWC	1	1	TBD	TBD

Additional Vehicles 1

72	1995	GM										S-10 Blazer/Jimmy	4.3 L	S3G4.329GFGJ	T1	LDT2	S	TWC				43006	TBD
73	1996	Lumina MV , Silhouette, Transport	3.4 L	TGM3.428GF EK	T1	LDT2	S	1	1	43009	43410												
74		Astro/Safari	4.3 L	TGM4.32PGKEL						43006	TBD												
75	1997	Venture, Transport, Silhouette	3.4 L	VGM3.428G2EK	TLEV	M3	S	1	1	43009	43414												
76	VAN G1500/2500	4.3 L	WGMXA04.3192	T1	43009																		
77	1998	Venture, Transport, Silhouette	3.4 L	WGMXT03.4142	TLEV	LDT2	D	1	1	43006	TBD												
78	G1500/2500 Van	5.7 L	XGMXA05.7184	T1	M3																		
79	1999	Venture, Transport, Silhouette	3.4 L	XGMXT03.4142	TLEV	LDT2	S	1	1	43006	TBD												
80	2000	G1500/2500 Van			LEV	M3	D	2	2			43004	43453										
81		Tahoe, Yukon, Escalade, Suburban	5.7 L	YGMXA05.7185	LEV	M3	D	2	2	43006	TBD												
82		Venture, Montana, Silhouette	3.4 L	YGMXT03.4142	LEV	LDT2	S	1	1														
83		Silverado/Sierra 1500	4.8 L 5.3 L	YGMXT05.3181	T1	M2	D	2	2														
84	2001	Silverado/Sierra 1500	5.3 L	1GMMXA05.3183	LEV	M3	D	2	2	43006	43419												
85		Silverado/Sierra 1500 Yukon, Tahoe	4.8 L 5.3 L	1GMMXA05.3184							TBD												
	G1500/2500 Van	5.7 L	1GMMXA06.0194								43419	TBD											

APPENDIX D-193-51

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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																								
85	2001	GM	Yukon	6.0 L	1GMYXA06.0194	LEV	M3	D	TWC	2	2	43006	TBD																								
86			Express/Van	8.1 L	1GMYXA08.1202	T1																															
87	Trailblazer EXT, Envoy XL		4.2 L	2GMYXA04.2187	LEV	M2	S							43006	TBD																						
88	G1500/2500 Van		4.3 L	2GMYXA04.3192	T1									M3						43009																	
89	G1500/2500 Van		5.0 L	2GMYXT05.0181																																	
90	G1500/2500 Van		5.0 L	2GMYXT05.0182																																	
91	Trailblazer, Envoy, Ascender		4.2 L	3GMYXA04.2187		M2																															
92	Rendezvous, Venture, Silhouette, Aztec, Montana		3.4 L	3GMYXT03.4141		LDT2																															
93	Trailblazer, Envoy, Ascender, Bravada		4.2 L	3GMYXT04.2185																																	
94	C/K1500		4.3 L	3GMYXT04.3184		LEV									M2																						
95	G1500/2500		4.8 L	3GMYXT05.3183																																	
	G1500/2500		5.3 L																																		
	Trailblazer, Envoy, Ascender		5.3 L																																		
	C/K1500, Tahoe, Yukon		4.8 L																																		
	G1500/2500 Van, H1500/2500 Van		5.3 L																																		
Escalade, Yukon, Silverado SS, (AWD)	6.0 L																																				
Hummer H2	6.0 L																																				
	3GMYXT06.0194																																				