

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
S-10 Pickup 2WD, Sonoma Pickup 2WD			TGM4.32PGKEK		LDT2								43006	43484		
S-10 Blazer, S-15 Jimmy													43006	43455		
Astro/Safari			TGM4.35PGFEK										43009	43410		
4			PU 1500/2500 2WD	5.0L	TGM5.0HPG1EK	Tier 1	MDV2	D	TWC	2	2	43009	43457			
5			VAN G1500/2500												43009	43414
6			PU 1500/2500 4WD		TGM5.0JPG1EK		MDV3							43009	43457	
6			PU 1500/2500 2WD/4WD	5.7L	TGM5.75PGFEK	Tier 1	MDV2	D	TWC	2	2	43004	43453			
			VAN G2500/3500 Driver side													43006
VAN G2500/3500 Passenger side													43006	43413		
7			PU 3500 2WD		TGM5.76PGFEK										43006	43453
8			Suburban, Tahoe, Yukon, Escalade							43006	43453					
9	PU 3500 4WD	TGM5.7JPG1EK						43006	43453							
9	PU 2500/3500 2WD/4WD Front/Rear	7.4L	TGM7.4J8G1EK	Tier 1	MDV3	D	TWC	2	2	43006	43470/43471					
	VAN G2500/3500 Driver side													43009	43416	
	VAN G2500/3500 Passenger side													43009	43417	
	Suburban, Tahoe, Escalade Front/Rear													43006	43470/43471	
10	1997	GM	PU 1500/2500	4.3L	VGM4.3HPG1EK	Tier 1	MDV2	S	TWC	1	1	43009	43457			
11			VAN G1500/2500												43009	43414
12			VAN G3500		VGM4.3JPG1EK		MDV3							43009	43414	
13			Astro/Savana		VGM4.32PG2EK		TLEV					LDT2		43009	43410	
					VGM4.3HPG3EK		LEV					MDV2		43009	43410	

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14	1997	GM	S-10 Blazer, S-15 Jimmy, S-10, S-15 P/U	4.3L	VGM4.32PG1EK	Tier 1	LDT2	S	TWC	1	1	43006	43484
15			PU 1500/2500 2WD	5.0L	VGM5.0HPG1EK		MDV2					43009	43457
			VAN G1500/2500				43009					43414	
16			PU 1500/2500 4WD	5.0L	VGM5.0JPG1EK		MDV3					43009	43457
			VAN G3500			43009	43414						
17			VAN G2500/3500 Driver side	5.7L	VGM5.7JPG1EK	MDV2	43006	43415					
			VAN G2500/3500 Passenger side					43006		43413			
18			Suburban, Tahoe, Yukon, Escalade	5.7L	VGM5.7JPG1GK	MDV3	43004	43453					
			VAN G2500/3500 Driver side					43006		43415			
			Suburban, Tahoe, Yukon, Escalade					43004		43453			
19			VAN G2500/3500 Passenger side	5.7L	VGM5.7HPG1EK	Tier 1	MDV2	D		43006	43413		
			Suburban, Tahoe, Yukon, Escalade								43004	43453	
20			PU 1500/2500/3500 2WD/4WD	7.4L	VGM7.4J8G1EK	MDV3	43004	43453					
			PU 2500/3500 2WD/4wd Front/Rear					43006		43470/43471			
	VAN G2500/3500 Driver side		43009				43416						
	VAN G2500/3500 Passenger side		43009				43417						
21	Suburban, Tahoe, Yukon, Escalade	4.3L	WGMXA04.3190	Tier 1	MDV2	S	43006	43470/43471					
	PU 1500/2500							43009	43457				
	VAN G1500/2500/3500							43009	43414				
	WGMXT04.3192							43009	43414				
22	1998	Astro/Savana	WGMXA04.3188	LEV	MDV2	S	43009	43410					
23				WGMXT04.3187	TLEV		LDT2	43009	43410				
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25	1998	GM	S-10 Pickup 2WD/Sonoma Pickup 2WD	4.3L	WGMXT04.3184	Tier 1	LDT2	S	TWC	1	1	43006	43468	
26			S-15 Jimmy									5.0L	WGMXA05.0182	MDV2
			PU 1500/2500	43009	43457									
			VAN G1500/2500	43009	43414									
27			PU 1500/2500	WGMXA05.0184	MDV3	43009	43457							
28			PU 1500/2500/3500	5.7L	WGMXA05.7182	MDV2	LEV	D	TWC	2	2	43004	43453	
29			PU 1500/2500/3500		WGMXA05.7184	MDV3						43004	43453	
30			Suburban, Tahoe, Yukon, Escalade	WGMXA05.7185	MDV2	43004						43453		
			VAN G2500/3500 Driver side	WGMXA05.7186	MDV3	43006						43415		
31			VAN G2500/3500 Passenger side			43006	43413							
			32	Suburban, Tahoe, Yukon, Escalade	WGMXA05.7187	MDV3	43004	43453						
PU 1500/2500/3500				43004			43453							
33			PU 2500/3500 Front/Rear	7.4L	WGMXA07.4201	Tier 1	MDV3	D	TWC	2	2	43006	43470/43471	
			VAN G2500/3500 Driver side									43009	43416	
	VAN G2500/3500 Passenger side	43009	43417											
	Suburban, Tahoe, Yukon, Escalade	43006	TBD											
34	1999	GM	PU 1500/2500	4.3L	XGMXA04.3194	LEV	MDV2	D	TWC	2	2	43006	43419	
35					XGMXA04.3195	Tier 1						MDV2	43006	43419
36			4.8L	XGMXA04.8184	43006		43419							
37			VAN G1500/2500	4.3L	XGMXA04.3190	LEV	MDV3	S	TWC	1	1	43009	43414	
38			VAN G3500		XGMXA04.3192							43009	43414	
39			Astro/Savana	XGMXA04.3188	TLEV	MDV2	43009	43410						
40				XGMXT04.3187	TLEV	LDT2	43009	43410						

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41	1999	GM	PU 1500/2500	5.0L	XGMXA05.0182	Tier 1	MDV2	S	TWC	1	1	43009	43457								
			VAN G1500/2500														43009	43414			
42			PU 1500/2500		XGMXA05.0184		MDV3					43009	43457								
			VAN G3500									43009	43414								
43			PU 1500/2500	5.3L	XGMXA05.3183	LEV	MDV2	D							43006	43419					
44			PU 3500		XGMXA05.3185											MDV3		43006	43419		
45			PU 1500/2500/3500	5.7L	XGMXA05.7182	Tier 1	MDV2									43004	43453				
46			PU 3500		XGMXA05.7187														43004	43453	
47			PU 1500/2500/3500	6.0L	XGMXA06.0182	Tier 1	MDV3									43006	TBD				
48			PU 3500		XGMXA06.0183														43006	TBD	
49			VAN G2500/3500 Driver side	5.7L	XGMXA05.7185	LEV	MDV2									43006	43415				
			VAN G2500/3500 Passenger side																	43006	43413
50			Suburban, Tahoe, Yukon, Escalade		XGMXA05.7186											43004	43453				
51																XGMXA05.7187				43004	43453
52			VAN G2500/3500 Driver side	7.4L	XGMXA07.4201	Tier 1	MDV3									43009	43416				
			VAN G2500/3500 Passenger side																	43009	43417
			Suburban, Tahoe, Yukon, Escalade																	43006	TBD
			PU 2500/3500 Front/Rear																	43006	43470/43471
53	2000	GM	PU 1500/2500	4.3L	YGMXA04.3190	LEV	MDV2		D				43006	43419							
54																					43006
55			PU 1500/2500	5.3L	YGMXT04.3184	Tier 1	YGMXA05.3181									43006	43419				
56					YGMXA05.3183														43006	43419	
57					YGMXA05.3184													43006	43419		
58			Suburban, Tahoe, Yukon, Escalade	5.7L	YGMXA05.7194	LEV	YGMXT05.7189								43004	43453					
59					YGMXA05.7194													43004	43453		
60			VAN G2500/3500	5.7L	YGMXT05.7188	Tier 1	YGMXT05.7188								43009	TBD					
			PU 2500/3500															43009	43414		
61			PU 2500	6.0L	YGMXA05.7191	Tier 1	MDV3								43004	43453					
												43006	TBD								

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

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71	2002	GM	Chevrolet Trailblazer 2wd/4wd, GMC Envoy 2wd/4wd, Oldmobile Bravada 2wd/4wd	4.2	2GMXT04.2185	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	1	1	43006	TBD	
			S-10 P-up, Sonoma											
73	1996		Lumina MV, Silhouette, Transport	3.4 L	TGM3.428GFEK									
74			Astro/Safari	4.3 L	TGM4.32PGKEL							43009	43410	
75	1997		Venture, Transport, Silhouette	3.4 L	VGM3.428G2EK	TLEV							43006	TBD
76			VAN G1500/2500	4.3 L	WGMXA04.3192	T1	M3						43009	43414
77	1998		Venture, Transport, Silhouette	3.4 L	WGMXT03.4142	TLEV	LDT2						43006	TBD
78			G1500/2500 Van	5.7 L	XGMXA05.7184	T1	M3	D		2	2			
79	1999		Venture, Transport, Silhouette	3.4 L	XGMXT03.4142	TLEV	LDT2	S		1	1			
80	2000		G1500/2500 Van	5.7 L	YGMXA05.7185	LEV	M3	D	TWC	2	2	43004	43453	
			Tahoe, Yukon, Escalade, Suburban											
81			Venture, Montana, Silhouette	3.4 L	YGMXT03.4142	LEV	LDT2	S		1	1		TBD	
82			Silverado/Sierra 1500	4.8 L 5.3 L	YGMXT05.3181	T1	M2	D	TWC	2	2	43006	43419	
83	2001		Silverado/Sierra 1500	4.8 L									1GMXA05.3183	LEV
			Silverado/Sierra 1500	5.3 L	43419									
84			Silverado/Sierra 1500 Yukon, Tahoe	4.8 L 5.3 L	1GMXA05.3184	LEV	M3	TWC	2	2	43006	43419		
85		G1500/2500 Van	5.7 L	1GMXA06.0194										

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85	2001	GM	Yukon	6.0 L	1GMXA06.0194	LEV	M3	D	TWC	2	2	43006	TBD
86			Express/Van	8.1 L	1GMXA08.1202	T1							
87	2002		Trailblazer EXT, Envoy XL	4.2 L	2GMXA04.2187	LEV	M2	S		1	1	43009	
88			G1500/2500 Van	4.3 L	2GMXA04.3192								
89			G1500/2500 Van	5.0 L	2GMXT05.0181	T1							
90			G1500/2500 Van	5.0 L	2GMXT05.0182								
91	Trailblazer, Envoy, Ascender		4.2 L	3GMXA04.2187	LEV	M2	LDT2			1	1	43006	
92	Rendezvous, Venture, Silhouette, Aztec, Montana		3.4 L	3GMXT03.4141									
93	Trailblazer, Envoy, Ascender, Bravada		4.2 L	3GMXT04.2185		M2							
94	C/K1500		4.3 L	3GMXT04.3184			43009			43419			
95	G1500/2500					3GMXT05.3183					43006	43419	
96	C/K 1500		4.8 L	3GMXT05.3184			2			2			
97	G1500/2500		5.3 L			M3					2	2	
98	Trailblazer, Envoy, Ascender		5.3 L	3GMXT06.0187			2			2			
	C/K1500, Tahoe, Yukon	4.8 L	3GMXT06.0187			2			2		43006	TBD	
	G1500/2500 Van, H1500/2500 Van	5.3 L		3GMXT06.0187			2			2			43006
	Escalade, Yukon, Silverado SS, (AWD)	6.0 L	3GMXT06.0187			2		2	43006		TBD		
	Hummer H2	6.0 L		3GMXT06.0194			2			2		43006	TBD