

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

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

Division Chief M/SOD (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	1996	GM	PU 1500/2500	4.3L	TGM4.38PGBEK	Tier 1	MDV3	S	TWC	1	1	43009	43457
			VAN		TGM4.38PGBEK		MDV3					43009	43414
			G1500/2500/3500		TGM4.32PGKEK		LDT2					43006	43484
			S-10 Pickup 2WD, Sonoma Pickup 2WD		TGM4.32PGKEK							43006	43455
2			S-10 Blazer, S-15 Jimmy	5.0L	TGM4.35PGFEK		MDV2					43009	43457
3			Astro/Safari		TGM5.0HPG1EK		MDV3					43009	43414
4			PU 1500/2500 2WD		TGM5.0JPG1EK							43004	43453
5			VAN G1500/2500		TGM5.75PGFEK		MDV2					43006	43415
6			PU 1500/2500 2WD/4WD	5.7L	TGM5.76PGFEK			D	TWC	2	2	43006	43453
7			VAN G2500/3500 Driver side		TGM5.7JPG1EK		MDV3					43006	43453
8			VAN G2500/3500 Passenger side		TGM7.4J8G1EK							43009	43417
9			Suburban, Tahoe, Yukon, Escalade									43006	43470/43471
			PU 2500/3500 2WD/4WD	7.4L									
			Front/Rear										
			VAN G2500/3500 Driver side										
			VAN G2500/3500 Passenger side										
			Suburban, Tahoe, Escalade										
			Front/Rear										

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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	1997	GM	PU 1500/2500	4.3L	VG M4.3HPG1EK	Tier 1	MDV2	S	TWC	1	1	43009	43457	
11			VAN G1500/2500		VG M4.3JPG1EK		MDV3					43009	43414	
12			Astro/Savana		VG M4.32PG2EK		LDT2					43009	43410	
13			S-10 Blazer, S-15 Jimmy, S-10, S-15 P/U		VG M4.3HPG3EK		MDV2					43009	43410	
14			PU 1500/2500 2WD	5.0L	VG M4.32PG1EK	Tier 1	LDT2					43006	43484	
15			VAN G1500/2500		VG M5.0HPG1EK		MDV2					43009	43457	
16			PU 1500/2500 4WD		VG M5.0JPG1EK		MDV3					43009	43414	
17			VAN G3500		VAN G2500/3500 Driver side		VG M5.7JPG1EK					MDV2	43006	43415
18			VAN G2500/3500 Passenger side	5.7L	Suburban, Tahoe, Yukon, Escalade	Tier 1	MDV3					43006	43453	
19			VAN G2500/3500 Driver side		Suburban, Tahoe, Yukon, Escalade							43004	43453	
20			PU 1500/2500/3500 2WD/4WD		VG M5.7HPG1EK							MDV2	43004	43453
			PU 2500/3500 2WD/4wd Front/Rear		7.4L							VG M7.4JPG1EK	MDV3	43006
			VAN G2500/3500 Driver side									43009	43416	
	VAN G2500/3500 Passenger side					43009	43417							
	Suburban, Tahoe, Yukon, Escalade					43006	43470/43471							

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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
21	1998	GM	PU 1500/2500	4.3L	WGMXA04.3190	Tier 1	MDV2	S	TWC	1	1	43009	43457
22			VAN G1500/2500/3500		WGMXT04.3192		MDV3					43009	43414
23			Astro/Savana		WGMXA04.3188		MDV2					43009	43410
24			S-10 Pickup 2WD/Sonoma Pickup 2WD		WGMXT04.3187	TLEV	43009					43410	
25			S-15 Jimmy	WGMXT04.3184	LDT2	43006	43468						
26			PU 1500/2500	WGMXA05.0182	MDV2	43006	43455						
27			VAN G1500/2500	WGMXA05.0184	MDV3	43009	43414						
28			PU 1500/2500/3500	WGMXA05.7182	MDV2	43004	43453						
29			PU 1500/2500/3500	WGMXA05.7184	MDV3	43004	43453						
30			Suburban, Tahoe, Yukon, Escalade	WGMXA05.7185	MDV2	43006	43415						
31			VAN G2500/3500 Driver side	WGMXA05.7186	LEV	D	TWC	2	2	43004	43453		
			VAN G2500/3500 Passenger side							43006	43413		
			Suburban, Tahoe, Yukon, Escalade							43004	43453		
32			PU 1500/2500/3500	WGMXA05.7187	MDV3					43004	43453		
			PU 2500/3500 Front/Rear							43006	43470/43471		
33				VAN G2500/3500 Driver side	7.4L	Tier 1	MDV3			43009	43416		
			VAN G2500/3500 Passenger side	WGMXA07.4201						43009	43417		
			Suburban, Tahoe, Yukon, Escalade							43006	TBD		

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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	
34	1999	GM	PU 1500/2500	4.3L	XGMAXA04.3194	LEV	MDV2	D	TWC	2	2	43006	43419	
35				4.8L	XGMAXA04.3195	Tier 1						MDV3	43006	43419
36				XGMAXA04.8184	43006								43419	
37				XGMAXA04.3190	43009								43414	
38			VAN G3500	4.3L	XGMAXA04.3192	LEV	MDV2	S	TWC	1	1	43009	43414	
39			Astro/Savana	XGMAXA04.3188	TLEV							LDT2	43009	43410
40			PU 1500/2500	XGMAXT04.3187	Tier 1	MDV2	43009					43457		
41			VAN G1500/2500	XGMAXA05.0182			MDV3					43009	43414	
42			PU 1500/2500	XGMAXA05.0184	LEV	MDV2	MDV3					43009	43414	
43			PU 1500/2500	XGMAXA05.3183								43006	43419	
44			PU 3500	XGMAXA05.3185								43006	43419	
45			PU 1500/2500/3500	5.7L	XGMAXA05.7182	Tier 1	MDV2	D	TWC	2	2	43004	43453	
46			PU 3500	XGMAXA05.7187	43006							TBD		
47			PU 1500/2500/3500	XGMAXA06.0182	MDV3							43006	TBD	
48			PU 3500	XGMAXA06.0183		43006	43415							
49			5.7L	VAN G2500/3500 Driver side	XGMAXA05.7185	LEV	MDV2	D	TWC	2	2	43006	43413	
50				VAN G2500/3500 Passenger side								XGMAXA05.7186	43004	43453
51				Suburban, Tahoe, Yukon, Escalade								XGMAXA05.7187	43004	43453
				VAN G2500/3500 Driver side								XGMAXA07.4201	Tier 1	MDV3
				VAN G2500/3500 Passenger side	43006	43417								
				Suburban, Tahoe, Yukon, Escalade	43006	TBD								
52				Front/Rear	7.4L	XGMAXA07.4201								

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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		
53	2000	GM	PU 1500/2500	4.3L	YGMXA04.3190	LEV	MDV2	D	TWC	2	2	43006	43419		
54			YGMXT04.3184		Tier 1										
55			YGMXA05.3181												
56			YGMXA05.3183												
57			Suburban, Tahoe, Yukon, Escalade	5.3L	YGMXA05.3184	LEV	MDV3								
58			YGMXA05.7194		MDV2										
59			YGMXT05.7189		MDV3										
60			VAN G2500/3500		YGMXT05.7188		MDV2								
61			PU 2500/3500	5.7L	YGMXA05.7191		S	TWC	1	1					
62			Suburban, Tahoe, Yukon, Escalade		YGMXT06.0192										
	PU 2500/3500														
	Suburban, Tahoe, Yukon, Escalade														
63	2001	GM	Front/Rear	7.4L	YGMXA07.4201	Tier 1	MDV3	D	TWC	2	2	43006	43470/43471		
			VAN G2500/3500									43009		43416	
			Driver side												
			VAN G2500/3500												
			Passenger side	4.3L	LEV	MDV2	S	TWC	1	1					
64			PU 1500/2500								1GMAXA04.3190				
65			VAN G1500/2500								1GMAXA04.3192				
66			VAN G1500/2500								1GMAXA05.0181				
67			2001	GM	VAN G3500	5.0L	1GMAXA05.0182	Tier 1						43009	43414
68					PU 1500/2500										
	Suburban, Tahoe, Yukon, Escalade	1GMAXA05.3184													
69			Suburban, Tahoe, Yukon, Escalade	5.3L	1GMAXA05.3184	LEV	MDV3	D	TWC	2	2	43006	43419		

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70	2002	GM	CHEVROLET G1500/2500 EXPRESS PASS 2WD, CHEVROLET G1500/2500 VAN CARGO 2WD, GMC G1500/2500 SAVANNA CARGO 2WD, GMC G1500/2500 SAVANNA PASS 2WD	5.7	2GMAXA06.0194	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	6.0									
71			Chevrolet Trailblazer 2wd/4wd, GMC Envoy 2wd/4wd, Oldmobile Bravada 2wd/4wd	4.2	2GMAXT04.2185		LDT2	S		1	1	TBD	