

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-193-36  
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 (ARB) 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-193-36 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-193-36.

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-193-36 subject to the following conditions:

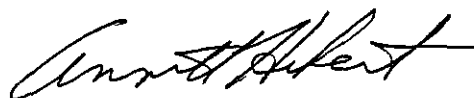
1. No changes are permitted to the catalytic converter as described in the application for exemption. Any changes to the catalytic converter or any of its components, and other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.
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.

Executive Order D-193-24 dated June 2, 2003, 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 18 day of July 2006.



Annette Hebert, Chief  
Mobile Source Operations Division

APPENDIX D-193-36

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CATALOG LISTING FOR CAR SOUND SERIES 43000 CONVERTERS (GM TRUCKS)

Division Chief/MSOD (AGL)

SERIES 43000 CONVERTERS FOR GM TRUCKS (APPLICATION LIST)

MAKE	MODEL	CYL	ENGINE	YEAR	CERT	ENGINE FAMILY	DIRECT FIT	UNIVERSAL	NUMBER	GM
<b>FULL SIZE VANS</b>										
GM	VAN G1500/G2500/G3500	8	4.3L	1996	Tier 1	TGM4.38PGBEK	43414	43009	SINGLE	TBD
GM	VAN G1500/G2500	8	4.3L	1997	Tier 1	VGM4.3HPG1EK	43414	43009	SINGLE	TBD
GM	VAN G3500	8	4.3L	1997	Tier 1	VGM4.3JPG1EK	43414	43009	SINGLE	TBD
GM	VAN G1500/G2500/G3500	8	4.3L	1998	Tier 1	WGMXT04.3192	43414	43009	SINGLE	TBD
GM	VAN G1500/G2500	8	4.3L	1999	Tier 1	XGMXA04.3190	43414	43009	SINGLE	TBD
GM	VAN G3500	8	4.3L	1999	Tier 1	XGMXA04.3192	43414	43009	SINGLE	TBD
GM	VAN G1500/G2500	8	4.3L	2001	LEV	1GMXA04.3192	43414	43009	SINGLE	TBD
GM	VAN G1500/G2500	8	5.0L	1996	Tier 1	TGM5.0HPG1EK	43414	43009	SINGLE	TBD
GM	VAN G3500	8	5.0L	1996	Tier 1	TGM5.0JPG1EK	43414	43009	SINGLE	TBD
GM	VAN G1500/G2500	8	5.0L	1997	Tier 1	VGM5.0HPG1EK	43414	43009	SINGLE	TBD
GM	VAN G3500	8	5.0L	1997	Tier 1	VGM5.0JPG1EK	43414	43009	SINGLE	TBD
GM	VAN G1500/G2500	8	5.0L	1998	Tier 1	WGMXA05.0182	43414	43009	SINGLE	TBD
GM	VAN G3500	8	5.0L	1998	Tier 1	WGMXA05.0185	43414	43009	SINGLE	TBD
GM	VAN G1500/G2500	8	5.0L	1999	Tier 1	XGMXA05.0182	43414	43009	SINGLE	TBD
GM	VAN G3500	8	5.0L	1999	Tier 1	XGMXA05.0184	43414	43009	SINGLE	TBD
GM	VAN G1500/G2500	8	5.0L	2001	Tier 1	1GMXA05.0181	43414	43009	SINGLE	TBD
GM	VAN G3500	8	5.0L	2001	Tier 1	1GMXA05.0182	43414	43009	SINGLE	TBD
GM	VAN G2500/G3500	8	5.7L	1996	Tier 1	TGM5.75PGFEK	43415	43006	DUAL	TBD
GM	VAN G2500/G3500	8	5.7L	1997	Tier 1	VGM5.7JPG1EK	43415	43006	DUAL	TBD
GM	VAN G2500/G3500	8	5.7L	1997	Tier 1	VGM5.7JPG1GK	43415	43006	DUAL	TBD
GM	VAN G2500/G3500	8	5.7L	1998	LEV	WGMXA05.7186	43415	43006	DUAL	TBD
GM	VAN G2500/G3500	8	5.7L	1999	LEV	XGMXA05.7185	43415	43006	DUAL	TBD
GM	VAN G2500/G3500	8	5.7L	2000	Tier 1	YGMXT05.7188	43414	43009	SINGLE	TBD
GM	VAN G2500/G3500	8	6.0L	2001	LEV	1GMXA06.0194	43415	43009	DUAL	TBD
GM	VAN G2500/G3500	8	7.4L	1996	Tier 1	TGM7.4J8G1EK	43416	43006	DUAL	TBD

APPENDIX D-193-36

CATALOG LISTING FOR CAR SOUND SERIES 43000 CONVERTERS (GM TRUCKS)

SERIES 43000 CONVERTERS FOR GM TRUCKS (APPLICATION LIST)										
MAKE	MODEL	CYL	ENGINE	YEAR	CERT	ENGINE FAMILY	DIRECT FIT	UNIVERSAL	NUMBER	GM
GM	VAN G2500/G3500	8	7.4L	1997	Tier 1	VGM7.4J8G1EK	43416	43006	DUAL	TBD
GM	VAN G2500/G3500	8	7.4L	1998	Tier 1	WGMXA07.4201	43416	43006	DUAL	TBD
GM	VAN G2500/G3500	8	7.4L	1999	Tier 1	XGMXA07.4201	43416	43006	DUAL	TBD
GM	VAN G2500/G3500	8	7.4L	2000	Tier 1	YGMXA07.4201	43416	43006	DUAL	TBD
	<b>MIDSIZE VANS</b>									
GM	Astro/Savana	8	4.3L	1996	Tier 1	TGM4.35PGFEK	43410	43005	SINGLE	TBD
GM	Astro/Savana	8	4.3L	1996	Tier 1	TGM4.35PGKEL	43410	43005	SINGLE	TBD
GM	Astro/Savana	8	4.3L	1997	TLEV	VGM4.32PG2EK	43410	43005	SINGLE	TBD
GM	Astro/Savana	8	4.3L	1997	LEV	VGM4.3HPG3EK	43410	43005	SINGLE	TBD
GM	Astro/Savana	8	4.3L	1998	LEV	WGMXA04.3188	43410	43005	SINGLE	TBD
GM	Astro/Savana	8	4.3L	1998	TLEV	WGMXT04.3187	43410	43005	SINGLE	TBD
GM	Astro/Savana	8	4.3L	1999	LEV	XGMXA04.3188	43410	43005	SINGLE	TBD
GM	Astro/Savana	8	4.3L	1999	TLEV	XGMXT04.3187	43410	43005	SINGLE	TBD
	<b>SUVs</b>									
GM	SUBURBAN/TAHOE/ESCALADE	8	5.3L	2000	LEV	YGMXA05.3184	TBD	43006	DUAL	TBD
GM	SUBURBAN/TAHOE/ESCALADE	8	5.3L	2001	LEV	1GMXA05.3184	TBD	43006	DUAL	TBD
GM	SUBURBAN/TAHOE/ESCALADE	8	5.7L	1996	Tier 1	TGM5.76PGFEK	43453	43006	DUAL	15975251
GM	SUBURBAN/TAHOE/ESCALADE	8	5.7L	1997	Tier 1	VGM5.7HPG1EK	43453	43006	DUAL	15733231
GM	SUBURBAN/TAHOE/ESCALADE	8	5.7L	1997	Tier 1	VGM5.7JPG1EK	43453	43006	DUAL	15733231
GM	SUBURBAN/TAHOE/ESCALADE	8	5.7L	1997	Tier 1	VGM5.7JPG1GK	43453	43006	DUAL	15733231
GM	SUBURBAN/TAHOE/ESCALADE	8	5.7L	1998	LEV	WGMXA05.7185	43453	43006	DUAL	15733231
GM	SUBURBAN/TAHOE/ESCALADE	8	5.7L	1998	LEV	WGMXA05.7186	43453	43006	DUAL	15733231
GM	SUBURBAN/TAHOE/ESCALADE	8	5.7L	1999	LEV	XGMXA05.7185	43453	43006	DUAL	15733231
GM	SUBURBAN/TAHOE/ESCALADE	8	5.7L	1999	LEV	XGMXA05.7186	43453	43006	DUAL	15733231

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CATALOG LISTING FOR CAR SOUND SERIES 43000 CONVERTERS (GM TRUCKS)

SERIES 43000 CONVERTERS FOR GM TRUCKS (APPLICATION LIST)										
MAKE	MODEL	CYL	ENGINE	YEAR	CERT	ENGINE FAMILY	DIRECT FIT	UNIVERSAL	NUMBER	GM
GM	SUBURBAN/TAHOE/ESCALADE	8	5.7L	1999	Tier 1	XGMXA05.7187	43453	43006	DUAL	15733231
GM	SUBURBAN/TAHOE/ESCALADE	8	5.7L	2000	LEV	YGMXA05.7194	43453	43006	DUAL	TBD
GM	SUBURBAN/TAHOE/ESCALADE	8	5.7L	2000	Tier 1	YGMXT05.7189	N/A	43009	SINGLE	TBD
GM	SUBURBAN/TAHOE/ESCALADE	8	6.0L	2000	Tier 1	YGMXT06.0192	43453	43006	DUAL	TBD
GM	SUBURBAN/TAHOE/ESCALADE	8	7.4L	1996	Tier 1	TGM7.4J8G1EK	TBD	43006	DUAL	TBD
GM	SUBURBAN/TAHOE/ESCALADE	8	7.4L	1997	Tier 1	VGM7.4J8G1EK	TBD	43006	DUAL	TBD
GM	SUBURBAN/TAHOE/ESCALADE	8	7.4L	1998	Tier 1	WGMXA07.4201	TBD	43006	DUAL	TBD
GM	SUBURBAN/TAHOE/ESCALADE	8	7.4L	1999	Tier 1	XGMXA07.4201	TBD	43006	DUAL	TBD
FULL SIZE PICKUPS (C,K,R,V)										
GM	PU 1500/2500	8	4.3L	1996	Tier 1	TGM4.38PGBEK	43457	43009	SINGLE	25170656
GM	PU 1500/2500	8	4.3L	1997	Tier 1	VGM4.3HPG1EK	43457	43009	SINGLE	25170656
GM	PU 1500/2500	8	4.3L	1998	Tier 1	WGMXA04.3190	43457	43009	SINGLE	25170656
GM	PU 1500/2500	8	4.3L	1999	LEV	XGMXA04.3194	TBD	43005	DUAL	TBD
GM	PU 1500/2500	8	4.3L	1999	Tier 1	XGMXA04.3195	TBD	43005	DUAL	TBD
GM	PU 1500/2500	8	4.3L	2000	LEV	YGMXA04.3190	TBD	43005	DUAL	TBD
GM	PU 1500/2500	8	4.3L	2000	Tier 1	YGMXT04.3184	TBD	43005	DUAL	TBD
GM	PU 1500/2500	8	4.3L	2001	LEV	1GMXA04.3190	TBD	43005	DUAL	TBD
GM	PU 1500/2500	8	4.8L	1999	Tier 1	XGMXA04.8184	TBD	43006	DUAL	25170656
GM	PU 1500/2500 2WD	8	5.0L	1996	Tier 1	TGM5.0HPG1EK	43457	43009	SINGLE	15975251
GM	PU 1500/2500 4WD	8	5.0L	1996	Tier 1	TGM5.0JPG1EK	43457	43009	SINGLE	15975251
GM	PU 1500/2500 2WD	8	5.0L	1997	Tier 1	VGM5.0HPG1EK	43457	43009	SINGLE	25170656
GM	PU 1500/2500 4WD	8	5.0L	1997	Tier 1	VGM5.0JPG1EK	43457	43009	SINGLE	25170656
GM	PU 1500/2500	8	5.0L	1998	Tier 1	WGMXA05.0182	43457	43009	SINGLE	25170656
GM	PU 1500/2500	8	5.0L	1998	Tier 1	WGMXA05.0184	43457	43009	SINGLE	25170656
GM	PU 1500/2500	8	5.0L	1999	Tier 1	XGMXA05.0182	43457	43009	SINGLE	25170656
GM	PU 1500/2500	8	5.0L	1999	Tier 1	XGMXA05.0184	43457	43009	SINGLE	25170656

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CATALOG LISTING FOR CAR SOUND SERIES 43000 CONVERTERS (GM TRUCKS)

SERIES 43000 CONVERTERS FOR GM TRUCKS (APPLICATION LIST)										
MAKE	MODEL	CYL	ENGINE	YEAR	CERT	ENGINE FAMILY	DIRECT FIT	UNIVERSAL	NUMBER	GM
GM	PU 1500/2500	8	5.3L	1999	LEV	YGMXA05.3183	TBD	43006	DUAL	TBD
GM	PU 3500	8	5.3L	1999	LEV	YGMXA05.3185	TBD	43006	DUAL	TBD
GM	PU 1500/2500	8	5.3L	2000	Tier 1	YGMXA05.3181	TBD	43006	DUAL	TBD
GM	PU 1500/2500	8	5.3L	2000	LEV	YGMXA05.3183	TBD	43006	DUAL	TBD
GM	PU 1500/2500	8	5.3L	2001	LEV	1GMXA05.3184	TBD	43006	DUAL	TBD
GM	PU 1500/2500	8	5.3L	2001	ULEV	1GMXA05.3185	N/A	NA	2/DUAL	TBD
GM	PU 1500/2500 2WD/4WD	8	5.7L	1996	Tier 1	TGM5.75PGFEK	43453	43006	DUAL	15975251
GM	PU 3500 2WD	8	5.7L	1996	Tier 1	TGM5.76PGFEK	43453	43006	DUAL	15975251
GM	PU 3500 4WD	8	5.7L	1996	Tier 1	TGM5.7JPG1EK	43453	43006	DUAL	15975251
GM	PU 1500/2500/3500 2WD/4WD	8	5.7L	1997	Tier 1	VGM5.7HPG1EK	43453	43006	DUAL	15975251
GM	PU 1500/2500/3500	8	5.7L	1998	Tier 1	WGMXA05.7182	43453	43006	DUAL	15975251
GM	PU 1500/2500/3500	8	5.7L	1998	Tier 1	WGMXA05.7184	43453	43006	DUAL	15975251
GM	PU 1500/2500/3500	8	5.7L	1998	Tier 1	WGMXA05.7187	43453	43006	DUAL	15975251
GM	PU 1500/2500/3500	8	5.7L	1999	Tier 1	XGMXA05.7182	43453	43006	DUAL	15975251
GM	PU 3500	8	5.7L	1999	Tier 1	XGMXA05.7187	43453	43006	DUAL	15975251
GM	PU 2500/3500	8	5.7L	2000	Tier 1	YGMXA05.7191	43453	43006	DUAL	15975251
GM	PU 1500/2500/3500	8	6.0L	1999	Tier 1	XGMXA06.0182	43453	43006	DUAL	15975251
GM	PU 3500	8	6.0L	1999	Tier 1	XGMXA06.0183	43453	43006	DUAL	15975251
GM	PU 2500/3500	8	6.0L	2000	Tier 1	YGMXA05.7191	43453	43006	DUAL	15975251
GM	PU 2500/3500 2WD/4WD	8	7.4L	1996	Tier 1	TGM7.4J8G1EK	43470	43006	DUAL	15708420
GM	PU 2500/3500 2WD/4WD	8	7.4L	1997	Tier 1	VGM7.4J8G1EK	43470	43006	DUAL	15708420
GM	PU 2500/3500	8	7.4L	1998	Tier 1	WGMXA07.4201	43470	43006	DUAL	15733229
GM	PU 2500/3500	8	7.4L	1999	Tier 1	XGMXA07.4201	43470	43006	DUAL	15733229
GM	PU 2500/3500	8	7.4L	2000	Tier 1	YGMXA07.4201	43470	43006	DUAL	15733229
<b>SMALL PICKUPS AND SUVs</b>										
GM	S-10 Blazer, S-15 Jimmy	8	4.3L	1996	Tier 1	TGM4.31PGFEK	43462	43006	SINGLE	TBD
GM	S-10 Blazer, S-15 Jimmy	8	4.3L	1996	Tier 1	TGM4.32PGKEK	43455	43006	SINGLE	TBD

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CATALOG LISTING FOR CAR SOUND SERIES 43000 CONVERTERS (GM TRUCKS)

SERIES 43000 CONVERTERS FOR GM TRUCKS (APPLICATION LIST)										
MAKE	MODEL	CYL	ENGINE	YEAR	CERT	ENGINE FAMILY	DIRECT FIT	UNIVERSAL	NUMBER	GM
GM	S-10 Blazer, S-15 Jimmy	8	4.3L	1997	Tier 1	VGM4.31PG1EK	43455	43006	SINGLE	TBD
GM	S-10 Blazer, S-15 Jimmy	8	4.3L	1997	Tier 1	VGM4.32PG1EK	43455	43006	SINGLE	TBD
GM	S-10 Blazer, S-15 Jimmy	8	4.3L	1998	Tier 1	WGMXT04.3182	43455	43006	SINGLE	TBD
GM	S-10 Blazer, S-15 Jimmy	8	4.3L	1998	Tier 1	WGMXT04.3184	43455	43006	SINGLE	TBD
GM	S-10, S-15 Pickup	8	4.3L	1996	Tier 1	TGM4.31PGFEK	43468	43006	SINGLE	TBD
GM	S-10, S-15 Pickup	8	4.3L	1996	Tier 1	TGM4.32PGKEK	43468	43006	SINGLE	TBD
GM	S-10, S-15 Pickup	8	4.3L	1997	Tier 1	VGM4.31PG1EK	43468	43006	SINGLE	TBD
GM	S-10, S-15 Pickup	8	4.3L	1997	Tier 1	VGM4.32PG1EK	43468	43006	SINGLE	TBD
GM	S-10, S-15 Pickup	8	4.3L	1998	Tier 1	WGMXT04.3182	43468	43006	SINGLE	TBD
GM	S-10, S-15 Pickup	8	4.3L	1998	Tier 1	WGMXT04.3184	43468	43006	SINGLE	TBD



**APPENDIX D-193-36**

**Vehicle listing for Car Sound Exhaust System Inc.- 43000 Series Converter- GM MDV**

**Additional Vehicles 1**

No.	Model Year	Make	Vehicle Model	Eng. Size	Engine Family	Weight Class	Certification Level	Exhaust Type	Tot Convs	Converter Type	Monitored	Universal	Direct Fit
1	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	MDV3	LEV	2TWC	2	TWC	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										