

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-193-55
Relating to Exemptions under Section 27156
of the Vehicle Code

Car Sound Exhaust System, Inc. (d.b.a. Magnaflow)
"Three-way Catalytic Converter Series 45000"

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 for exemption from the prohibitions in Vehicle Code Sections 27156 to market its new aftermarket Series 45000 three-way catalytic converter (TWC) on 1996 through 2003 Chrysler light-duty trucks 2 (LDT2) equipped with an on-board diagnostic II (OBD-II) system as specified in Appendix D-193-55 and incorporated herein. The application coverage excludes vehicles equipped with a warm-up catalytic converter. The TWC will be used in single and dual parallel underbody vehicle applications. The Series 45000 TWC may also be installed on non-OBD II vehicles (1995 and older) similar in engine displacement, test weight, and exhaust configuration to those listed in Appendix D-193-55.

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 Umicore Automotive Catalysts (Umicore) using the ARB-modified RAT-A bench-aging cycle for 100 hours, as specified for category vehicles 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 (ATDS), Ontario, California, with Series 45000 TWC installed on a 1999 3.8L Chrysler Town & Country Van, test group XCRXT232230, certified to the Low Emission Vehicle emission standards and LDT2 weight category (LEV, LDT2), showed that the catalytic converter met the applicable emission standards. The following are the test results in grams per mile:

	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>
LDT2 100K LEV standards	0.130	5.5	0.5
Series 45000 TWC Test 1	0.119	1.0	0.2
Series 45000 TWC Test 2	0.104	0.8	0.2

OBD II compatibility tests performed on the same test vehicle showed that Series 45000 TWC did not affect the vehicle's ability to perform OBD II system monitoring.

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-193-55 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, its associates, vendors, other businesses, and individuals may not sell or supply the substrates of the new aftermarket catalytic converters 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 converters semi-annually, covering the periods January 1 through June 30, and July 1 through December 31.

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 7 day of July 2008.



Annette Hebert, Chief
Mobile Source Operations Division

APPENDIX D-193-55

Car Sound Exhaust System, Inc. Series 45000 for Chrysler LDT2

No.	Model Year	Make	Vehicle Model	Engine Size	Engine Family	Cert. Level	Weight Class	Exhaust Type	Converter Type	Total Converters	Monitored	Universal	Direct Fit	
1	1996	Chrysler	Caravan, Voyager	2.4 L	TCR2.428GF EK	Tier1	LDT2	S	TWC	1	1	45005	TBD	
2			Caravan, Voyager, Town & Country	3.3 L	TCR20128G2FL	TLEV							45279	
3				3.8 L	TCR23228G1EK									
4			Dakota	3.9 L	TCR23928G1EK								45006	TBD
5			Grand Cherokee	4.0 L	TCR24228G1EK								45036	45226
6			Cherokee		TCR24228G1FK									
7			Grand Cherokee											
7			B1500/B2500/B3500	5.2 L	TCR31828G1EK	Tier1							45037	45296
8			Dakota		TCR31828G1EK								45006	TBD
8			Grand Cherokee		TCR31828G1EK								45036	45226
9	Dakota		TCR31828G1EL		45006	TBD								
10	Grand Cherokee	5.9 L	TCR36028G1EL		45036	45226								
11	1997	Chrysler	Caravan, Voyager	2.4 L	VCR14828G1EK		LDT2	S	TWC	1	1	45005	TBD	
12			Caravan, Voyager, Town & Country	3.3 L	VCR20128G2FL	TLEV							45279	
13				3.8 L	VCR23228G1EK									
14			Dakota	3.9 L	VCR23928G1EK								45006	TBD
15			Cherokee	4.0 L	VCR24228G1EK	Tier1							45036	45226
16			Wrangler		VCR24228G1EL								45035	TBD
16			Cherokee		VCR24228G1EL								45036	45226
17			Wrangler										45035	TBD
17			Dakota	5.9 L	VCR36028G1EK								45006	
18			Grand Cherokee	5.2 L	VCR36028G1EK								45036	45226
18		5.9 L												
19	Dakota	2.5 L	WCRXT0150110		45006	TBD								
20	Caravan, Voyager, Town & Country	3.3 L	WCRXA0201230	LEV		45279								
21	Caravan, Voyager	2.4 L	WCRXT02.42B0	Tier1	45005	TBD								
22	Caravan, Voyager, Town & Country	3.3 L	WCRXT0201230	LEV										
23	Caravan, Voyager, Town & Country	3.8 L	WCRXT0232220	TLEV		45279								
24	1998	Chrysler	Dakota	3.9 L	WCRXT0239211		45006	45294						
26			Caravan, Voyager, Town & Country	3.8 L	WCRXT03.82B0		45005	45279						
26			Dakota	5.2 L	WCRXT0360211	Tier1	45006	TBD						
			Grand Cherokee	5.9 L										
				5.2 L										
26			Grand Cherokee	5.9 L			45036	45226						
27	1999	Chrysler	Dakota	3.9 L	XCRXT0239211		45006	TBD						
28			Dakota	5.2 L	XCRXT0360211									
28				5.9 L										
29	Caravan, Voyager	2.4 L	XCRXT0148230	LEV	45005	45277								

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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	Universal	Direct Fit
30	1999	Chrysler	Caravan, Voyager, Town & Country	3.3 L	XCRXT0201230	LEV	LDT2	S	TWC	1	1	45005	45279
31				3.8 L	XCRXT0232220	TLEV							
32				3.8 L	XCRXT0232230	LEV							
33			Town & Country	3.8 L	XCRXT03.82B0	Tier1							
34			Caravan, Voyager, Town & Country	3.3 L	XCRXT03.82B1								
35				3.8 L									
36	Dakota	5.2 L	XCRXT0360211	Tier1	45006	TBD							
37	Dakota	5.9 L	XCRXT0360211										
38	2000	Chrysler	Caravan, Voyager	2.4 L	YCRXT0148230	LEV	LDT2	S	TWC	1	1	45005	45277
39			Caravan, Voyager, Town & Country	3.3 L	YCRXT0201230								
40				3.8 L	YCRXT0232230	Tier1							45279
41			Dakota	3.9 L	YCRXT03.92C1	TLEV							45006
42	Dakota	5.9 L	YCRXT0360221	TBD									
43	2001	Chrysler	Caravan, Voyager	2.4 L	1CRXT02.42D0	LEV	LDT2	S	TWC	1	1	45055	45201
44			Caravan, Voyager, Town & Country	3.3 L	1CRXT03.32DP								
45				3.3 L	1CRXT03.32DT								
46				3.8 L	1CRXT03.82D0								45202
47	Caravan, Voyager	2.4 L	1CRXT02.42D0	LEV	45006	45204							
48	Liberty Sport	2.4 L	2CRXT02.42D0			45201							
49	2002	Chrysler	Caravan, Voyager, Town & Country	2.4 L	2CRXT02.42D5	LEV	LDT2	S	TWC	2	1	45055	TBD
50				3.3 L	2CRXT03.32DP								
51			3.8 L	2CRXT03.82D0									
52			3.3 L	2CRXT03.82D1	45202								
53	2003	Chrysler	Caravan, Voyager	2.4 L	3CRXT02.42D0	LEV	LDT2	S	TWC	2	1	45055	45201
54			Liberty	2.4 L	3CRXT02.43D0								TBD
55			Caravan, Voyager, Town & Country	3.3 L	3CRXT03.32DP								
56				3.3 L	3CRXT03.32DR								
57	3.8 L	3CRXT03.82D0		45202									
58			3.3 L	3CRXT03.82D1									