

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-193-33
Relating to Exemptions under Section 27156
of the Vehicle Code

Car Sound Exhaust System, Inc. (d.b.a. MagnaFlow)
"Series 46000 OBD II Three-way Catalytic Converter"

WHEREAS, Vehicle Code Sections 27156 and Section 2222(h), Title 13, California Code of Regulations (hereafter "CCR"), 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 Section 27156 to market its new aftermarket Series 46000 three-way catalytic converter (TWC) for installation on selected 1996 through 2001 model year GM passenger cars and light-duty trucks equipped with on-board diagnostic II (OBD-II) systems as specified in Appendix D-193-33 and incorporated herein. The Series 46000 TWC will be used for single (1 unit) exhaust system applications for selected GM passenger cars and light-duty trucks.

The 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-193-33

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, 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 Energy and Chassis Systems using Air Resources Board-modified RAT-A bench-aging cycle for 75 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 Development Services, Inc. (ATDS), Ontario, California, using a 1999 3.8L Pontiac Grand Prix equipped with a single (1 unit) exhaust system, and certified to the Low Emission Vehicle (LEV, PC) emission standards showed that the vehicle met the applicable emission standards with Series 46000 TWC (1 unit) installed.

OBD II compatibility tests performed on the same test vehicle showed that Series 46000 TWC did not affect the vehicle's ability to perform OBD II system monitoring. Emission test results in grams per mile are shown below.

ATDS, Ontario, California				
3.8L Grand Prix Test				
	NMOG	CO	NOx	Remarks
100K Standard	0.090	4.2	0.3	
Test 1	0.085	1.3	0.2	Pass
Test 2	0.084	1.4	0.2	Pass
Average of Tests 1 & 2	0.085	1.4	0.2	Pass

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-193-33 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 these products 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. Valina, Inc., its associates, vendors, other businesses, and individuals may not sell or supply the substrates 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 converter by a third party, which involves the use of packaging identification different from the ones described in this Executive Order, must be approved by ARB prior to shipment.

Executive Order D-193-27 dated August 15, 2005, 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 a 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 7TH day of February 2006.



Allen Lyons, Chief
Mobile Source Operations Division

APPENDIX D 193-33

Car Sound Exhaust System, INC. Series 46000 for Selected GM passenger Cars

No	Model Year	Make	Vehicle Model	Engine Size	No of Cylinders	Engine Family	Certification Level	Total Converters	Monitored Converters	Universal	Direct Fit
1	1996	Buick	LeSabre, Park Avenue	3.8L	6	TGM3.8V8GKEK	Tier 1	1	1	46006	46464
		Buick	Regal								46531
		Buick	Riviera								TBD
		Chevrolet	Camaro								46466
		Oldsmobile	98,Delta 88, LSS								46464
		Pontiac	Bonneville SE								46464
		Pontiac	Firebird								46466
		2	Buick								Park Avenue Ultra
Buick			Riviera	46404							
Pontiac			Bonneville SSE	TBD							
3			Chevrolet	Lumina, Monte Carlo	3.4L	6	TGM3.4VJGFEK	Tier 1	1	1	46004
		Oldsmobile	Cutlass Supreme								
		Pontiac	Grand Prix								
4		Buick	Century	3.1L	6	TGM3.1V8GFEK	Tier 1	1	1	46004	46487
		Buick	Regal							46005	46498
		Buick	Skylark							46004	46406
		Chevrolet	Beretta, Corsica							46004	46406
		Chevrolet	Lumina, Monte Carlo							46005	46498
		Oldsmobile	Achieva							46004	46406
		Oldsmobile	Ciera							46004	46487
		Oldsmobile	Cutlass Supreme							46005	46498
		Pontiac	Grand Am							46004	46406
		Pontiac	Grand Prix							46005	46498

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Car Sound Exhaust System, INC. Series 46000 for Selected GM passenger Cars

No	Model Year	Make	Vehicle Model	Engine Size	No of Cylinders	Engine Family	Certification Level	Total Converters	Monitored Converters	Universal	Direct Fit
5	1997	Chevrolet	Camaro	3.8L	6	VGM3.8V8GKEK	Tier 1	1	1	46006	46466
		Oldsmobile	Regency, Delta 88							46009	46437
		Pontiac	Firebird							46006	46466
6		Buick	Park Ave. Ultra, Riviera	3.8L	6	VGM3.8V8G1FK	Tier 1	1	1	46009	TBD
		Buick	Regal GS, Century							46006	46405
		Oldsmobile	Delta 88, Regency							46009	TBD
		Pontiac	Bonneville SSE							46009	TBD
		Pontiac	Grand Prix							46006	46405
7		Buick	LeSabre	3.8L	6	VGM3.8V8G2EK	TLEV	1	1	46009	46437
		Buick	Park Ave, Riviera							46006	46515
		Buick	Regal LS, Century							46006	46405
		Oldsmobile	Delta 88 Royale							46009	46437
		Pontiac	Bonneville SE							46009	46437
		Pontiac	Grand Prix							46006	46405
8	1997	Chevrolet	Lumina, Monte Carlo	3.4L	6	VGM3.4VJG1EK	Tier 1	1	1	46004	46522
		Oldsmobile	Cutlass Supreme							46005	TBD
9		Buick	Century	3.1L	6	VGM3.1V8G1EK	Tier 1	1	1	46005	46469
		Buick	Skylark							46004	46460
										46005	46519
		Chevrolet	Lumina							46005	46539
		Chevrolet	Malibu							46005	46519
		Chevrolet	Monte Carlo							46004	46460
		Oldsmobile	Achieva							46005	46539
		Oldsmobile	Cutlass							46005	46519
		Oldsmobile	Cutlass Supreme							46004	46460
		Pontiac	Grand Am							46005	46469
		Pontiac	Grand Prix								

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Car Sound Exhaust System, INC. Series 46000 for Selected GM passenger Cars

No	Model Year	Make	Vehicle Model	Engine Size	No of Cylinders	Engine Family	Certification Level	Total Converters	Monitored Converters	Universal	Direct Fit
10	1998	Buick	LeSabre	3.8L	6	WGMXV03.8048	TLEV	1	1	46009	46437
		Buick	Park Ave. Ultra							46009	TBD
		Buick	Park Ave.							46006	46515
		Buick	Regal GS							46006	46405
		Buick	Regal LS							46006	46405
		Chevrolet	Lumina							46004	46521
		Chevrolet	Monte Carlo							46004	46521
		Oldsmobile	Delta 88 Royale							46009	46437
		Oldsmobile	Intrigue							46006	46405
		Oldsmobile	Regency							46009	46437
		Pontiac	Bonneville SE							46009	46437
		Pontiac	Bonneville SSE							46009	TBD
		Pontiac	Grand Prix							46006	46405
11		Buick	Century	3.1L	6	WGMXV03.1044	TLEV	1	1	46005	46469
		Chevrolet	Lumina, Monte Carlo, Malibu								46519
		Pontiac	Grand Prix								46469
		Oldsmobile	Cutlass								46520

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Car Sound Exhaust System, INC. Series 46000 for Selected GM passenger Cars

No	Model Year	Make	Vehicle Model	Engine Size	No of Cylinders	Engine Family	Certification Level	Total Converters	Monitored Converters	Universal	Direct Fit
12	1999	Buick	Park Ave	3.8L	6	XGMXV03.8053	LEV	1	1	46009	TBD
		Buick	Regal							46006	46405
		Buick	Riviera							46009	TBD
		Oldsmobile	LSS							46009	TBD
		Pontiac	Bonneville SSE							46009	TBD
		Pontiac	Grand Prix							46009	TBD
13		Chevrolet	Camaro	3.8L	6	XGMXV03.8051	TLEV	1	1	46006	46466
		Pontiac	Firebird								
14	1999	Buick	LeSabre	3.8L	6	XGMXV03.8048	TLEV	1	1	46009	46437
		Buick	Park Ave.							46006	46515
		Buick	Regal							46006	46405
		Chevrolet	Lumina							46004	46521
		Chevrolet	Monte Carlo							46004	46521
		Oldsmobile	Delta 88 Royale							46009	46437
		Oldsmobile	Intrigue							46006	46405
		Oldsmobile	LSS							46009	46437
		Pontiac	Bonneville SE							46009	46437
		Pontiac	Grand Prix							46006	46405
		Pontiac	Grand Prix							46006	46405
15		Chevrolet	Lumina	3.4L	6	XGMXV03.4042	TLEV	1	1	46005	46519
		Chevrolet	Monte Carlo							46005	46519
		Oldsmobile	Alero							46004	46435
		Buick	Century							46005	46469
		Pontiac	Grand Am SE							46004	46435
		Pontiac	Grand Am GT							46004	46435?
		Pontiac	Grand Prix							46005	46469

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Car Sound Exhaust System, INC. Series 46000 for Selected GM passenger Cars

No	Model Year	Make	Vehicle Model	Engine Size	No of Cylinders	Engine Family	Certification Level	Total Converters	Monitored Converters	Universal	Direct Fit
16		Chevrolet	Malibu,	3.1L	6	XGMXV03.1043	LEV	1	1	46005	46520
		Oldsmobile	Cutlass								
17	2000	Buick	Park Ave.	3.8L	6	YGMXV03.8045	LEV	1	1	46009	TBD
		Buick	Regal							46006	46405
		Pontiac	Bonneville SSE							46009	TBD
		Pontiac	Grand Prix							46006	46405
18		Buick	LeSabre	3.8L	6	YGMXV03.8043	LEV	1	1	46009	TBD
		Buick	Park Ave.							46009	TBD
		Buick	Regal							46006	46405
		Chevrolet	Impala							46006	46405
		Chevrolet	Monte Carlo							46006	46405
		Pontiac	Bonneville SE							46009	TBD
		Pontiac	Firebird							46006	46466
		Pontiac	Grand Prix							46006	46405

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CAR SOUND EXHAUST SYSTEM, INC. SERIES 46000 for Selected GM Passenger Cars/Light Duty Truck 1

**Additional
Vehicles**

No.	Model Year	Make	Vehicle Model	Engine Size	No. of Cylinders	Engine Family	Certificati on Level	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
1	1996	GM	SL1 SEDAN, SW1 WAGON, SC1 COUPE	4	1.9 L	TGM1.9V8G2EK	TLEV	Single	1	TWC	1	46004	46450/46535
2			SL2 SEDAN, SW2 WAGON, SC2 COUPE		1.9 L	TGM1.9VJGF EK	TIER1					46005	TBD
3			HOMBRE P/U 2WD, S10 PICKUP 2WD, SONOMA 2WD		2.2 L	TGM2.218GF EK	TLEV					46005	46462
4			CORSICA, BERETTA, CAVALIER, SUNFIRE			TGM2.2V8G2EK						46004	TBD/TBD/ 46499/46499
5			CORSICA, BERETTA, CENTURY WAGON, CENTURY, CIERA SL, CAVALIER, SUNFIRE			TGM2.2V8GKEK						46004	TBD
6			CAVALIER, SUNFIRE, GRAND AM, ACHIEVA, SKYLARK		2.4 L	TGM2.4VJG2EK	TIER1					46004	46465
7			CAVALIER, SUNFIRE, GRAND AM, ACHIEVA, SKYLARK			TGM2.4VJGKEK						46004	46465
			Aurora		8	4.0 L	TGM4.6VJGFEL					46006	TBD
8	4.6L Seville, Eldorado, Deville	4.6 L	46009	46451									

CAR SOUND EXHAUST SYSTEM, INC. SERIES 46000 for Selected GM Passenger Cars/Light Duty Truck 1
**Additional
Vehicles**

9	1997	GM	SL1 SEDAN, SW1 WAGON, SCI COUPE	4	1.9 L	VGM1.9V8G2EK	TLEV	Single	1	TWC	1	46004	46450
10			S10P/U , SONOMA, HOMBRE, 2wd, 3625 lbs		2.2 L	VGM2.2I8G1EK	TIER I					46005	46462
11			CAVALIER, SUNFIRE			VGM2.2V8G1EK						46004	46499
12			CAVALIER, SUNFIRE			VGM2.2V8G2EK	TLEV					46004	TBD/46499/ 46499
13			CAVALIER, SUNFIRE, ACHIEVA	2.4 L	VGM2.4VJG1EK	TIER I	46004					46465	
			AURORA	4.0 L			46006					TBD	
14			SEVILLE, ELDORADO, DEVILLE	4.6 L	VGM4.6VJG1EK		46009					46451	

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CAR SOUND EXHAUST SYSTEM, INC. SERIES 46000 for Selected GM Passenger Cars/Light Duty Truck 1

Additional Vehicles

15	1998	GM	SL SEDAN,SW WAGON,SC COUPE	4	1.9 L	WGMXV01.9002	TLEV	Single	1	TWC	1	46004	TBD
16			CAVALIER, SUNFIRE		2.2 L	WGMXV02.2022	TIER I					46004	46499
17			CAVALIER, SUNFIRE			WGMXV02.2023	TLEV					46004	46499
18			S10 PICKUP, GMC SONOMA, ISUZU HOMBRE PICKUP 2WD		WGMXT02.2122	TIER I	46005					46462	
19			S10 PICKUP, GMC SONOMA, ISUZU HOMBRE PICKUP 2WD		WGMXT02.2124	TLEV	46005					46462	
20			CAVALIER,SUNFIRE, ACHIEVA,GRAND AM		WGMXV02.4025	TIER I	46004					46465	
			GRAND AM,ACHIEVA, SKYLARK,CAVALIER,SUNFIR E,CUTLASS, MALIBU	WGMXV02.4026	TLEV	46004	46465						
21				WGMXV02.4026		46004	46465						
22			MALIBU,CUTLASS	3.1 L	TIER I	46004	46460						
			PONTIAC GRAND AM, OLDSMOBILE,ACHIEVA, BUICK SKYLARK			WGMXV03.1042	46004					46519	
23			CHEVROLET LUMINA, MONTE CARLO, MALIBU			WGMXV03.1043	46004					46519	
			PONTIAC GRAND PRIX, BUICK CENTURY, CUTLASS			WGMXV03.8049	46006					46466	
24			CAMARO,FIREBIRD			3.8 L	TIER I					46006	TBD
25			BUICK RIVERA, BUICK PARK AVENUE, REGAL, GRAND PRIX	WGMXV03.8051	46006							46437	
26			PONTIAC BONNEVILLE,OLDSMOBILE EIGHT-EIGHT/REGENCY		46006							TBD	
	AURORA	8	4.0 L	WGMXV04.6066									
	SEVILLE		4.6L		46009	46451							
27	ELDORADO,DEVILLE												

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CAR SOUND EXHAUST SYSTEM, INC. SERIES 46000 for Selected GM Passenger Cars/Light Duty Truck 1

**Additional
Vehicles**

28	1999	GM	SL SEDAN, SW WAGON, SC COUPE	4	1.9 L	XGMXV01.9002	TLEV	Single	1	TWC	1	46004	TBD
29			S10 PICKUP 2WD, SONOMA 2WD, HOMBRE PU 2WD	4	2.2 L	XGMXT02.2122						46005	46462
30			CAVALIER,SUNFIRE	4	2.2 L	XGMXV02.2022						46004	46473
31			CAVALIER,SUNFIRE	4	2.2 L	XGMXV02.2023	LEV					46004	46473
32			ALERO, CUTLASS, GRAND AM.	4	2.4 L	XGMXV02.4025	TLEV					46004	TBD
33			CAVALIER,SUNFIRE,MALIBU, CUTLASS,GRAND AM,ALERO	4	2.4 L	XGMXV02.4027	LEV					46004	TBD
34			OLDSMOBILE INTRIGUE	6	3.5 L	XGMXV03.5064	TLEV					46004	TBD
35			BUICK PARK AVENUE, CHEVROLET CAMARO, PONTIAC FIREBIRD		3.8 L	XGMXV03.8049	LEV					46006	46515/46466/ 46466
			CHEVROLET LUMINA/MONTE CARLO									46006	46521
			OLDSMOBILE INTRIGUE, BUICK REGAL, PONTIAC GRAND PRIX									46006	46405
			PONTIAC BONNEVILLE, OLDSMOBILE EIGHTY/REGENCY, BUICK LESABRE									46006	46437
36			OLDSMOBILE EIGHTY-EIGHT REGENCY/PONTIAC BONNEVILLE			XGMXV03.8052	TIER I					46006	46437/TBD/ 46437
37			AURORA		8	4.0 L						XGMXV04.6068	46006
			ELDORADO,DEVILLE,SEVILLE, LIMOUSINE HEARSE		4.6 L	46009	46451/46451/ TBD						

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CAR SOUND EXHAUST SYSTEM, INC. SERIES 46000 for Selected GM Passenger Cars/Light Duty Truck 1

**Additional
Vehicles**

38	2000	GM	SI0 PICKUP 2WD, SONOMA 2WD, HOMBRE PICKUP 2WD	4	2.2 L	YGMXT02.2122	LEV	Single	1	TWC	1	46005	46462
39			SUNFIRE (manual), CAVALIER (manual)	4	2.2 L	YGMXX02.2023	TLEV					46004	46473
40			SATURN LS, LW, SUNFIRE, CAVALIER, GRAND AM, ALERO, MALIBU	4	2.2 L	YGMXV02.4022	LEV					46004	46473/46473/ TBD/TBD/ TBD
			SUNFIRE, CAVALIER, GRAND AM, ALERO, MALIBU	4	2.4 L							46004	TBD
41			AURORA, INTRIGUE	6	3.5 L	YGMXV03.5064	LEV					46004	TBD
42			AURORA	8	4.0L	YGMXV04.6065	TIER I					46006	TBD
43			SEVILLE, ELDORADO, DEVILLE		4.0 L							46009	TBD
44			AURORA		4.0 L	YGMXV04.6066	LEV					46006	TBD
45			SEVILLE, DEVILLE, LIMOUSINE, FUNERAL COACH, HEARSE		4.6 L							46009	TBD

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CAR SOUND EXHAUST SYSTEM, INC. SERIES 46000 for Selected GM Passenger Cars/Light Duty Truck 1

**Additional
Vehicles**

46	2001	GM	Saab 9-3, 9-3 Convertible, 9-5, 9-5 Wagon	4	2.0L/2.3L	1GMXV02.3001	LEV	Single	1	TWC	1	46005	TBD
47			Chevrolet S10 PU 2WD; GMC Sonoma 2WD; Isuzu Hombre PU 2WD		2.2 L	1GMXT02.2122						TBD	TBD
48			Chevrolet Cavalier; Pontiac Sunfire			1GMXV02.2024	TLEV					46004	TBD
49			Saturn L100/200 (manual transmission only)		2.2L/2.4L	1GMXV02.4022						46004	TBD
50			Chevrolet Cavalier, Sunfire, Grand AM, Alero	6								46004	TBD
			Saab 9-5, Saab 9-5 Wagon		3.0 L	1GMXV03.0062						46005	TBD
51			Chevrolet Malibu, Lumina, Pontiac Grand Prix; Buick Century		3.1 L	1GMXV03.8043	LEV					46004	TBD
			Chevrolet Impala, Monte Carlo, Alero, Grand Am		3.4 L							46005	TBD
52			Chevrolet Camaro; Pontiac Firebird/Trans Am, Bonneville, Grand Prix, Buick Park Avenue, Regal		3.8 L							46006	46466/46466/ TBD/TBD/ TBD
53			Oldsmobile Aurora			1GMXV03.5064						46004	TBD
54			Oldsmobile Aurora, Intrigue		3.5 L	1GMXV03.5065						46004	TBD
			Oldsmobile Aurora		4.0 L	1GMXV04.6065						46006	TBD
55			Cadillac Deville, Eldorado, Seville, Hearse, Limousine	8	4.6 L		46009					TBD	