

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-353-21  
Relating to Exemptions under Section 27156  
of the Vehicle Code

Miller Catalyzer Corporation  
"Series 31000 OBD II Compliant 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, Miller Catalyzer Corporation (Miller) of 3295 Depot Road, Hayward, California 94545, has applied to the Air Resources Board for exemption from the prohibitions in Vehicle Code Section 27156 to market its new aftermarket Series 31000 three-way catalytic converter (TWC) for installation on selected 1995 through 2003 model year General Motors (GM) trucks equipped with on-board diagnostic II (OBD-II) systems as specified in Appendix D-353-21 and incorporated herein. The Series 31000 TWC will be used for single (one unit) exhaust system applications for selected GM trucks.

Series 31000 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-353-21.

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 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, previous emissions and OBD II compatibility tests conducted by Miller Catalyzer Corporation using a vehicle of a weight classification and exhaust configuration similar to those listed in Appendix D-353-21 and certified to Low Emission Vehicle (LEV) standards resulted in the issuance of Executive Order D-353-13, it was determined that the installation of Series 31000 TWC on the vehicles listed in Appendix D-353-21 meets the requirements of California regulations for aftermarket catalytic converters.


IT IS HEREBY RESOLVED that the above catalytic converter is exempt from the prohibitions in Vehicle Code Section 27156 for installation on the vehicles listed in Appendix D-353-21 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 Miller Catalyzer Corporation, 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. Miller Catalyzer Corporation'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. Miller Catalyzer Corporation 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 them appear to perform better than an OEM catalytic converter.
7. The new aftermarket catalytic converter substrate may not be sold or supplied to a third party by Miller, its associates, vendors, other businesses, and individuals associated with Miller, 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 Air Resources Board prior to shipment.
9. Miller must submit the required quality audit and production quantity reports for its aftermarket catalytic converter semi-annually, covering the periods January 1 through June 30, and July 1 through December 31.

Executive Order D-353-15 dated December 29, 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 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 22<sup>nd</sup> day of February 2008.

  
Annette Hebert, Chief  
Mobile Source Operations Division

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Miller Catalyzer Corpoartion, Catalytic Converter Series 31000, GM Medium Duty Trucks, Up to 14,000 ALWV												
No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
1	1996	Chevrolet S10 Pickup	4.3L	TGM4.32PGKEK	Tier 1	LDT2	S	1	TWC	1	31000	31061
		Chevrolet S10 Blazer	4.3L					1		31000	31061	
		GMC S15 Pickup	4.3L					1		31000	31064	
		GMC S15 Jimmy	4.3L					1		31000	31064	
		Oldsmobile Bravada	4.3L					1		31000	31064	
2	1996	Chevrolet Van 2WD, GMC Savana 2WD	4.3L	TGM4.35PGFEK	Tier 1	MDV2		1		1	31000	31058B
		Chevrolet Astro, K1500 PU 2WD & 4WD	4.3L					1		31000	31058B	
		GMC Safari, K1500 Sierra 2WD & 4WD	4.3L					1		31000	31058B	
3	1996	Chevrolet Astro	4.3L	TGM4.32PGKEL	Tier 1	LDT2		1		1	31000	31058B
		GMC Safari	4.3L					1		31000	31058B	
4	1996	Chevrolet/GMC 1500 Pickup	4.3L	TGM4.38PGBEK	Tier 1	MDV3	1	1	31000	31058B		
		Chevrolet/GMC 2500 Pickup	4.3L				1	31000	31058B			
		Chevrolet/GMC G1500 Van	4.3L				1	31000	31058B			
		Chevrolet/GMC G2500 Van	4.3L				1	31000	31058B			
		Chevrolet/GMC G3500 Van	4.3L				1	31000	31058B			
5	1996	Chevrolet/GMC 1500 Pickup 2WD	5.0L	TGM5.0HPG1EK	Tier 1	MDV2	1	1	31000	31068		
		Chevrolet/GMC 2500 Pickup 2WD	5.0L				1	31000	31068			
		Chevrolet/GMC G1500 Van	5.0L				1	31000	31071			
		Chevrolet/GMC G2500 Van	5.0L				1	31000	31071			
6	1996	Chevrolet/GMC 1500 Pickup 4WD	5.0L	TGM5.0JPG1EK	Tier 1	MDV3	1	1	31000	31068		
		Chevrolet/GMC 2500 Pickup 4WD	5.0L				1	31000	31068			
		Chevrolet/GMC G3500 Van	5.0L				1	31000	31068			
7	1997	Chevrolet S10 Pickup	4.3L	VGM4.32PG1EK	Tier 1	LDT2	S	1	TWC	1	31000	31061
		Chevrolet S10 Blazer	4.3L					1		31000	31061	
		GMC S15 Pickup	4.3L					1		31000	31064	
		GMC S15 Jimmy	4.3L					1		31000	31064	
		Oldsmobile Bravada	4.3L					1		31000	31064	

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Miller Catalyzer Corpoartion, Catalytic Converter Series 31000, GM Medium Duty Trucks, Up to 14,000 ALVW												
No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
8	1997	Chevrolet Astro	4.3L	VGM4.32PG2EK	TLEV	LDT2	S	1	TWC	1	31000	31059B
		GMC Safari	4.3L					1		31000	31059B	
9	1997	Chevrolet/GMC 1500 Pickup	4.3L	VGM4.3HPG1EK	Tier 1	MDV2		1		1	31000	31058B
		Chevrolet/GMC 2500 Pickup	4.3L					1		31000	31058B	
		Chevrolet/GMC G1500 Van	4.3L					1		31000	31058B	
		Chevrolet/GMC G2500 Van	4.3L					1		31000	31058B	
10	1997	Chevrolet Astro	4.3L	VGM4.3HPG3EK	LEV	MDV2		1		1	31000	31058B
		GMC Safari	4.3L					1		31000	31058B	
11	1997	Chevrolet/GMC G3500 Van	4.3L	VGM4.3JPG1EK	Tier 1	MDV3		1		1	31000	31058B
12	1997	Chevrolet/GMC 1500 Pickup 2WD	5.0L	VGM5.0HPG1EK	Tier 1	MDV2		1		1	31000	31068
		Chevrolet/GMC 2500 Pickup 2WD	5.0L					1		31000	31068	
		Chevrolet/GMC G1500 Van	5.0L					1		31000	31071	
		Chevrolet/GMC G2500 Van	5.0L					1		31000	31071	
13	1997	Chevrolet/GMC 1500 Pickup 4WD	5.0L	VGM5.0JPG1EK	Tier 1	MDV3	1	1	31000	31068		
		Chevrolet/GMC 2500 Pickup 4WD	5.0L				1	31000	31068			
		Chevrolet/GMC G3500 Van	5.0L				1	31000	31068			
14	1998	Chevrolet Astro	4.3L	WGMXA04.3188	LEV	MDV2	1	1	31000	31066		
		GMC Safari	4.3L				1	31000	31066			
15	1998	Chevrolet Astro	4.3L	WGMXT04.3187	TLEV	LDT2	1	1	31000	31067		
		GMC Safari	4.3L				1	31000	31067			
16	1998	Chevrolet/GMC 1500 Pickup	4.3L	WGMXA04.3190	Tier 1	MDV2	1	1	31000	31067		
		Chevrolet/GMC 1500 Pickup	4.3L				1	31000	31067			
17	1998	Chevrolet S10 Pickup	4.3L	WGMXT04.3184	Tier 1	LDT2	1	1	31000	31090		
		Chevrolet S10 Blazer	4.3L				1	31000	31090			
		GMC S15 Pickup	4.3L				1	31000	31058B			
		GMC S15 Jimmy	4.3L				1	31000	31058B			
		Oldsmobile Bravada	4.3L				1	31000	31058B			

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Miller Catalyzer Corpoartion, Catalytic Converter Series 31000, GM Medium Duty Trucks, Up to 14,000 ALVW												
No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
18	1998	Chevrolet S10 Pickup	4.3L	WGMXT04.3182	Tier 1	MDV2	S	1	TWC	1	31000	31061
		Chevrolet S10 Blazer	4.3L					1		1	31061	
19	1998	Chevrolet/GMC G1500 Van	4.3L	WGMXT04.3192	Tier 1	MDV3		1		1	31058B	
		Chevrolet/GMC G2500 Van	4.3L					1		1	31058B	
		Chevrolet/GMC G3500 Van	4.3L					1		1	31058B	
20	1998	Chevrolet/GMC 1500 Pickup	5.0L	WGMXA05.0182	Tier 1	MDV2		1		1	31059B	
		Chevrolet/GMC 2500 Pickup	5.0L					1		1	31059B	
		Chevrolet/GMC G1500 Van	5.0L					1		1	31071	
		Chevrolet/GMC G2500 Van	5.0L					1		1	31071	
21	1998	Chevrolet/GMC 1500 Pickup	5.0L	WGMXA05.0184	Tier 1	MDV3		1		1	31059B	
		Chevrolet/GMC 2500 Pickup	5.0L				1	1	31059B			
22	1999	Chevrolet Astro	4.3L	XGMXT04.3187	TLEV	LDT2	1	TWC	1	31058B		
		GMC Safari	4.3L				1		1	31058B		
23	1999	Chevrolet Astro	4.3L	XGMXA04.3188	LEV	MDV2	1		1	31059B		
		GMC Safari	4.3L				1		1	31059B		
24	1999	Chev/GMC G1500 Van	4.3L	XGMXA04.3190	Tier 1	MDV2	1		1	31058B		
		Chev/GMC G2500 Van	4.3L				1		1	31058B		
25	1999	Chevrolet/GMC G3500 Van	4.3L	XGMXA04.3192	Tier 1	MDV3	1		1	31069		
26	1999	Chevrolet/GMC 1500 Pickup	5.0L	XGMXA05.0182	Tier 1	MDV2	1		1	31058B		
		Chevrolet/GMC 2500 Pickup	5.0L				1		1	31058B		
		Chevrolet/GMC G1500 Van	5.0L				1		1	31069		
		Chevrolet/GMC G2500 Van	5.0L				1		1	31069		
27	1999	Chevrolet/GMC 1500 Pickup	5.0L	XGMXA05.0184	Tier 1	MDV3	1		1	31058B		
		Chevrolet/GMC 2500 Pickup	5.0L				1		1	31058B		
		Chevrolet/GMC G3500 Van	5.0L				1		1	31069		

Miller Catalyzer Corpoartion, Catalytic Converter Series 31000, GM Medium Duty Trucks, Up to 14,000 ALVW												
No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
28	2000	Chevrolet/GMC G2500 Van	5.0L	YGMXT05.7188	Tier 1	MDV2	S	1	TWC	1	31000	31058B
		Chevrolet/GMC G3500 Van	5.0L					1		31000	31058B	
29	2000	Chevrolet G1500/2500 Van	5.0L	YGMXT05.7189	Tier 1	MDV3		1		1	31000	31060B
		GMC G1500/2500 Savana	5.0L					1		31000	31060B	

30	2001	Chevrolet/GMC G1500 Van	4.3L	1GMXA04.3192	LEV	MDV2	S	1	TWC	1	31000	31058B
		Chevrolet/GMC G2500 Van	4.3L					1		31000	31058B	
31	2001	Chevrolet/GMC G1500 Van	5.0L	1GMXA05.0181	Tier 1	MDV2		1		1	31000	31058B
		Chevrolet/GMC G2500 Van	5.0L					1		31000	31058B	
32	2001	Chevrolet/GMC G3500 Van	5.0L	1GMXA05.0182	Tier 1	MDV3	1	1	31000	31058B		

## Additional Vehicles 1

Miller Catalyzer Corpoartion, Catalytic Converter Series 31000, GM Medium Duty Trucks, Up to 14,000 ALVW												
No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
33	1995	S-10 Blazer/Jimmy	4.3L	S3G4.329GFGJ	Tier 1	LDT2	S	1	TWC	1	31000	TBD
		S-10 Pickup, Sonoma										
34	1996	Lumina MV, Silhouette, Transport	3.4L	TGM3.428GFEK	TLEV							
35	1997	Venture, Transport, Silhouette		VGM3.428G2EK								
36	1998	G1500/2500 Van	4.3L	WGMXA04.3192	Tier 1	MDV3						
37		Venture, Transport, Silhouette	3.4L	WGMXT03.4142	TLEV	LDT2						
38	1999	Venture, Transport, Silhouette		XGMXT03.4142								
39	2000	Venture, Montana, Silhouette	4.2L	YGMXT03.4142	LEV	MDV2						
40	2002	Chevrolet Trailblazer EXT		2GMXA04.2187								
41		2002	GMC Envoy XL		2GMXT04.2185	LDT2						
	Chevrolet Trailblazer 2WD/4WD											
		Oldsmobile Bravada 2WD/4WD										
		GMC Envoy 2WD/4WD										

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Miller Catalyzer Corpoartion, Catalytic Converter Series 31000, GM Medium Duty Trucks, Up to 14,000 ALVW												
No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
42	2002	Chevrolet G1500/2500 Express 2WD	4.3L	2GMXA04.3192	LEV	MDV2						
		Chevrolet G1500/2500 Van 2WD										
		GMC G1500/2500 Savanna Cargo 2WD										
		GMC G1500/2500 Savanna Passenger 2WD										
43		G1500/2500 VAN	5.0L	2GMXT05.0181	Tier 1							
44		G1500/2500 VAN										2GMXT05.0182
45		CHEVROLET Trailblazer	4.2L	3GMXT04.2185			S	1	TWC	1	31000	TBD
		GMC Envoy										
		Oldsmobile Bravada										
		Isuzu Ascender										
46	2003	CHEVROLET Express 1500 2WD	4.3L	3GMXT04.3184	LEV							
		CHEVROLET Express 2500 2WD										
		CHEVROLET Silverado 1500 2WD, 4WD										
		CHEVROLET Van 1500 2WD										
		CHEVROLET Van 2500 2WD										
		GMC Savana 1500 2WD										
		GMC Savana 2500 2WD										
GMC Sierra 1500 2WD, 4WD												
47		Rendezvous, Venture, Silhouette, Aztec, Montana	3.4L	3GMXT03.4141								