

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-353-16
Relating to Exemptions under Section 27156
of the Vehicle Code

Miller Catalyzer Corporation.
"Series 45000 and 61000 OBD II Compliant Three-way Catalytic Converter"

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, Miller Catalyzer Corporation 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 45000 and Series 61000 three-way catalytic converters (TWC) for installation on selected 1996 through 1999 model year Ford and Mazda trucks equipped with On-Board Diagnostic II (OBD-II) systems as specified in Appendix D-353-16 and incorporated herein. Series 45000 TWC will be used for dual exhaust system applications (2 units). Furthermore, Series 61000 will be used as front catalytic converters (2 units) and Series 45000 as rear catalytic converter(s) (1 unit or 2 units) for multiple catalytic converter system applications (3 or 4 units total). These catalytic converters will be sold as universal or direct fit systems for the vehicles listed in Appendix D-353-16.

Series 45000 and Series 61000 TWCs may also be installed on non-OBD II vehicles (1995 and older) similar in engine and exhaust configuration to those listed in Appendix D-353-16.

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 converters comply with the California Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h). The emissions performance of the catalytic converters was based on durability bench-aging by Delphi Energy and Chassis Systems using the Air Resources Board-modified RAT-A bench-aging cycle for 100 hours, and emission testing conducted at the Automotive Testing and Development Services, Inc. (ATDS), in accordance with 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 ATDS, Ontario, California, using a 1999 4.0L Ford Explorer with Series 45000 (2 units) installed, and a 1998 4.0L Ford Ranger with Series 61000 (2 units) installed as front catalytic converters and Series 45000 (2 units) installed as rear catalytic converters, showed that the vehicles met the applicable emission standards. Both test vehicles are certified to the Low Emission Vehicle, light-duty truck 2 (LEV, LDT2) emission standards. OBD II compatibility tests performed on the same test vehicles showed that Series 45000 and 61000 TWC systems 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 – (2 Series 45000 TWCs)				
4.0L 1999 4.0L Ford Explorer Test				
	NMOG	CO	NOx	Remarks
100K Standard	0.130	5.5	0.5	
Test 1	0.122	1.8	0.2	Pass
Test 2	0.126	1.9	0.2	Pass

ATDS, Ontario, California – 2 Series 61000 TWCs/2 Series 45000 TWCs				
4.0L 1999 4.0L Ford Ranger Test				
	NMOG	CO	NOx	Remarks
100K Standard	0.130	5.5	0.5	
Test 1	0.060	0.9	0.2	Pass
Test 2	0.050	0.8	0.2	Pass

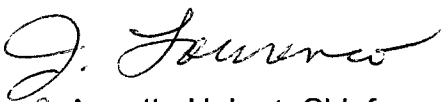
IT IS HEREBY RESOLVED that the above catalytic converters are exempt from the prohibitions in Vehicle Code Section 27156 for installation on the approved vehicle applications specified in Appendix D-353-16 subject to the following conditions:

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 it appear to perform better than an OEM catalytic converter.
7. The new aftermarket catalytic converter substrates may not be sold or supplied to a third party by Miller Catalyzer Corporation, its associates, vendors, other businesses, and individuals associated with Miller Catalyzer Corporation, 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 the Air Resources Board prior to shipment.
9. Miller Catalyzer Corporation 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.

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 6th day of February 2007.


Annette Hebert, Chief
Mobile Source Operations Division

Miller Catalyst Converter Series 45000/61000, For Ford/Mazda LDT2 and MDV

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	Windstar	3.0L	TFM3.028G1EK	Tier 1	LDT2	D	2	TWC	2	45000	45174
2	1996	Ranger Pickup 4WD	3.0L	TFM3.028G1FK	Tier 1	LDT2	D	2	TWC	2	45000	45925
		B3000 4X4										
3	1996	Aerostar	3.0L	TFM3.028G1GK	Tier 1	LDT2	D	2	TWC	2	45000	45990
4	1996	Windstar	3.8L	TFM3.828G1EK	Tier 1	LDT2	D	2	TWC	2	45000	45174
5	1996	Ranger Pickup 4WD	4.0L	TFM4.028G1EK	Tier 1	LDT2	D	2	TWC	2	45000	45925
		B4000 4X4										
6	1996	Explorer 2WD	4.0L	TFM4.028G1FK	Tier 1	LDT2	D	2	TWC	2	45000	45925
		Explorer 4WD										45926
7	1996	Aerostar	4.0L	TFM4.028G1GK	Tier 1	LDT2	Y	2	TWC	2	45000	45994S
		Ranger Pickup 4WD										
		B2300 4X4										
8	1996	B3000 4X4	4.0L	TFM4.028G2EK	TLEV	LDT2	D	2	TWC	2	45000	45925
		B4000 4X4										
9	1996	Explorer 4x4, 4x2	4.0L	TFM4.028G2FK	TLEV	LDT2	D	2	TWC	2	45000	45925
		E150 Econoline 2WD, F250										45926
10	1996	F150 Pickup 2WD	4.9L	TFM4.958GFJK	Tier 1	MDV2	S	2	TWC	1	45000	45951
		E250 Strip Chassis, E350										
		F250	4.9L	TFM4.968GFJK	Tier 1	MDV3	S	2	TWC	1	45000	45951
		F350 Cab Chassis										
		F250										
12	1996	F150 Pickup 2WD	5.0L	TFM5.0H8G1EK	Tier 1	MDV2	D	2	TWC	2	45000	45955
		Bronco 4WD										
		F150 Pickup 4WD										
13	1996	E150 Econoline 2WD	5.0L	TFM5.0J8G1EK	Tier 1	MDV3	D	2	TWC	2	45000	45955
		E150 Club Wagon										
14	1996	Bronco 4WD, F150, F250	5.8L	TFM5.8H8G1EK	Tier 1	MDV2	D	2	TWC	2	45000	45957
15	1997	Ford Windstar	3.0L	VF M3.028G1EK	Tier 1	LDT2	D	2	TWC	2	45000	45174
16	1997	Ranger Pickup 2WD, Mazda B-Series	3.0L	VF M3.028G1FK	Tier 1	LDT2	D	2	TWC	2	45000	45925
												45926
17	1997	Ford Windstar	3.8L	VF M3.828G1EK	Tier 1	LDT2	D	2	TWC	2	45000	45174

Miller Catalystzer Corporation, Catalytic Converter Series 45000/61000, For Ford/Mazda LDT2 and MDV

No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
18	1997	Ranger Pickup 4WD, Mazda 4x2	4.0L	VFEM4.028G1EK	Tier 1	LDT2	D	2	TWC	2	45000	45925 /45926
19	1997	Ranger Pickup 4WD, Mazda B-Series	4.0L	VFEM4.028G2EK	TLLEV	LDT2	D	2	TWC	2	45000	45925
20	1997	Explorer 2WD Explorer 4WD	4.0L	VFEM4.028G2HK	TLLEV	LDT2	D	2	TWC	2	45000	45925 /45926
21	1997	F150 Pickup 2WD, 4WD	4.2L	VFEM4.228G1EK	Tier 1	LDT2	D	4	TWC	4	45000 /61000	45506 /45507
22	1997	E150 Econoline 2WD E350 2WD	4.2L 4.2L	VFEM4.2H8G1EK	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45534 /45535 /45534 /45535
23	1997	E250 Econoline 2WD	4.2L	VFEM4.2I8G1EK	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45534 /45535
24	1997	F150 Pickup 2WD, 4WD	4.6L	VFEM4.628G1EK	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45929 /45930
25	1997	F150 Pickup 2WD	4.6L	VFEM4.6H8G1EK	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45929 /45930
26	1997	F150 Pickup 2WD, 4WD	5.4L	VFEM5.4H8G1EK	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45941 /45942
27	1997	E-150, E-250, E-350	5.4L	VFEM5.4J8G1EK	Tier 1	MDV3	D	4	TWC	4	45000 /61000	45941 /45942
28	1998	Ranger Pickup 4WD, Mazda B-Series	3.0L	WFEMXT03.0HAAA	TLLEV	LDT2	Y	3	TWC	2	45000	45925
29	1998	Explorer 2WD, 4WD	4.0L	WFEMXT04.02DC	TLLEV	LDT2	D	2	TWC	2	45000	45926S
30	1998	Ranger Pickup 4WD Mazda B4000 4WD	4.0L	WFEMXT04.0DAAA	TLLEV	LDT2	D	4	TWC	2	45000	45925
31	1998	Ranger Pickup 4WD, Mazda B-Series	4.0L	WFEMXT04.0EAAA	LEV	LDT2	D	4	TWC	2	45000	45925
32	1998	E150 Econoline 2WD	4.2L	WFEMXA04.2AAAA	Tier 1	MDV2	D	2	TWC	2	45000 /61000	45534 /45535
33	1998	F150 Pickup 2WD, 4WD	4.6L	WFEMXT04.6AAAA	Tier 1	LDT2	D	4	TWC	4	45000 /61000	45929 /45930
34	1998	Explorer 2WD, 4WD, Mountaineer 2WD/4WD	5.0L	WFEMXT05.02DC	TLLEV	LDT2	D	4	TWC	4	45000 /61000	45528 /45529 /45530
35	1998	F150 Pickup 2WD, 4WD	5.4L	WFEMXA05.4HBC	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45528 /45529 /45530
36	1998	Expedition 2WD/4WD Navigator 2WD/4WD	5.4L	WFEMXA05.4IGC	LEV	MDV3	D	4	TWC	4	45000 /61000	45541 /45542

Miller Catalystzer Corporation, Catalytic Converter Series 45000/61000, For Ford/Mazda LDT2 and MDV												
No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
37	1999	Windstar FWD VAN	3.0L	XFMXT03.02GC	LEV	LDT2	D	2	TWC	2	45000	45174
		Mazda B2000 2WD										
38	1999	Mazda B3000 4WD	4.0L	XFMXT04.02DN	TLEV	LDT2	D	4	TWC	2	45000	45925
		Ford Ranger Pickup 2WD										
		Ford Ranger Pickup 4WD										
39	1999	Mazda B2000 2WD	4.0L	XFMXT04.02GC	LEV	LDT2	D	4	TWC	2	45000	45925
		Mazda B3000 4WD										
		Ford Ranger Pickup 2WD										
40	1999	Ford Explorer 2WD	4.0L	XFMXT04.02GF	LEV	LDT2	D	2	TWC	2	45000	45547
		Ford Explorer 4WD										
		Mercury Mountaineer 2WD										
41	1999	Mercury Mountaineer 4WD	4.2L	XFMXA04.2HGCC	LEV	MDV3	D	4	TWC	4	45000 /61000	45534 /45535
		E-150 Econoline 2WD										
		E-150 Club Wagon										
42	1999	E-150 Econoline 2WD	4.2L	XFMXA04.2JGCC	LEV	MDV3	D	4	TWC	4	45000 /61000	45534 /45535
		E-250 CabChassis 2WD										
		E-250 Econoline 2WD										
43	1999	E-250 Strip Chassis 2WD	4.2L	XFMXT04.22GCC	LEV	LDT2	D	4	TWC	4	45000 /61000	45932 /45933
		F-150 Pickup 2WD										
		F-150 Pickup 4WD										
44	1999	F-150 Pickup 2WD	4.6L	XFMXA04.6HGCC	LEV	MDV2	D	4	TWC	4	45000 /61000	45932 /45933
		F-150 Pickup 4WD										
		Ford Explorer 2WD										
45	1999	Ford Explorer 4WD	5.0L	XFMXT05.02GFF	LEV	LDT2	D	4	TWC	2	45000 /61000	45552 /45553
		Mercury Mountaineer 2WD										
		Mercury Mountaineer 4WD										