

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-353-19
Relating to Exemptions under Section 27156
of the Vehicle Code

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

WHEREAS, Vehicle Code Section 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 (Miller) of 3295 Depot Road, Hayward, California 94545, has applied to the Air Resources Board for exemption from the prohibitions in Vehicle Code Sections 27156 to market its new aftermarket Series 45000 and 61000 three-way catalytic converters (TWC) for installation on selected 1996 through 2003 model year Ford and Mazda trucks equipped with on-board diagnostic II (OBD-II) systems and multiple catalytic converter systems (2, 3, 4 or 5 total) as specified in Appendix D-353-19 and incorporated herein. Series 61000 will be used as front catalytic converters (2 units) and Series 45000 as rear catalytic converter(s) (1 unit, 2 or 3 units) for multiple catalytic converter system applications. Series 45000 only is used as replacement catalytic converter for dual exhaust system (2 units). These catalytic converters may be sold as universal or direct-fit system for the vehicles listed in Appendix D-353-19. The Series 45000 and 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-353-19.

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 converters comply with the California Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h). The emissions performance of the aftermarket catalytic converters was based on durability bench-aging by Delphi Energy & Engine Management System (Delphi) using the Air Resources Board modified RAT-A bench-aging cycle for 100 hours, and testing conducted at the Automotive Testing and Development Services, Inc. (ATDS), 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 ATDS, Ontario, California, using a 1999 4.0L Ford Explorer with Series 45000 (2 units) only installed and a 1998 4.0L Ford Ranger with Series 61000 (2 units) installed as the front catalytic converters and Series 45000 (2 units) installed as the rear catalytic converters showed that the vehicles met the applicable emission standards. Both test vehicles are certified as category 2 light-duty trucks and Low Emission Vehicle emission standards (LDT2, LEV). OBD II compatibility tests performed on the vehicles showed that Series 45000 and 61000 TWC system does not affect the vehicles' ability to perform OBD II system monitoring. The following are the test results in grams per mile:

ATDS, Ontario, California – 1999 4.0L Ford Explorer				
	NMOG	CO	NOx	Remarks
100K Standard	0.130	5.5	0.5	
Series 45000(2) Test 1	0.122	1.8	0.2	Pass
Series 45000(2) Test 2	0.126	1.9	0.2	Pass
ATDS, Ontario, California – 1998 4.0L Ford Ranger				
100K Standard	0.130	5.5	0.5	
Series 45000(2)/61000(2) T1	0.060	0.9	0.2	Pass
Series 45000(2)/61000(2) T2	0.050	0.8	0.2	Pass

IT IS HEREBY RESOLVED that the above catalytic converter system is exempt from the prohibitions in Vehicle Code Section 27156 for installation on the approved vehicle applications specified in Appendix D-353-19 subject to the following conditions:


1. No changes are permitted to the catalytic converter system as described in the application for exemption. Any changes to the catalytic converter system 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 system using identifications other than those shown in the exemption application, and in this Executive Order, or marketing of the catalytic converters 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 system 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 system and is only a finding that the catalytic converter system is exempt from the prohibitions of Vehicle Code Section 27156.
4. Miller Catalyzer Corporation's installation instructions for the new catalytic converter system 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 system 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 system as a "high or easy flow" catalytic converter or use any phrase that could make it appear to perform better than an original equipment manufacturer (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 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.

Executive Order D-353-18 date May 30, 2007, is hereby superseded and of no further force and effect.

Executed at El Monte, California, this 16th day of November 2007.


Annette Hebert, Chief
Mobile Source Operations Division

APPENDIX D-353-19

Miller Catalyzer 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
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 /45926
		Explorer 4WD										
7	1996	Aerostar	4.0L	TFM4.028G1GK	Tier 1	LDT2	Y	2	TWC	2	45000	45994S
8	1996	Ranger Pickup 4WD	4.0L	TFM4.028G2EK	TLEV	LDT2	D	2	TWC	2	45000	45925
		B2300 4X4										
		B3000 4X4										
		B4000 4X4										
9	1996	Explorer 4x4, 4x2	4.0L	TFM4.028G2FK	TLEV	LDT2	D	2	TWC	2	45000	45925 /45926
10	1996	E150 Econoline 2WD, F250	4.9L	TFM4.958GFJK	Tier 1	MDV2	S	2	TWC	1	45000	45951
		F150 Pickup 2WD										
11	1996	E250 Strip Chassis, E350	4.9L	TFM4.968GFJK	Tier 1	MDV3	S	2	TWC	1	45000	45951
		F250										
		F350 Cab Chassis										
12	1996	F250	5.0L	TFM5.0H8G1EK	Tier 1	MDV2	D	2	TWC	2	45000	45955
		F150 Pickup 2WD										
		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	VFM3.028G1EK	Tier 1	LDT2	D	2	TWC	2	45000	45174
16	1997	Ranger Pickup 2WD, Mazda B-Series	3.0L	VFM3.028G1FK	Tier 1	LDT2	D	2	TWC	2	45000	45925 /45926
17	1997	Ford Windstar	3.8L	VFM3.828G1EK	Tier 1	LDT2	D	2	TWC	2	45000	45174

APPENDIX D-353-19

Miller Catalyzer 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	VFM4.028G1EK	Tier 1	LDT2	D	2	TWC	2	45000	45925 /45926
19	1997	Ranger Pickup 4WD, Mazda B-Series	4.0L	VFM4.028G2EK	TLEV	LDT2	D	2	TWC	2	45000	45925
20	1997	Explorer 2WD	4.0L	VFM4.028G2HK	TLEV	LDT2	D	2	TWC	2	45000	45925 /45926
		Explorer 4WD										
21	1997	F150 Pickup 2WD, 4WD	4.2L	VFM4.228G1EK	Tier 1	LDT2	D	4	TWC	4	45000 /61000	45506 /45507
22	1997	E150 Econoline 2WD	4.2L	VFM4.2H8G1EK	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45534 /45535
		E350 2WD	4.2L				D	4	TWC	4	45000 /61000	45534 /45535
23	1997	E250 Econoline 2WD	4.2L	VFM4.2J8G1EK	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45534 /45535
24	1997	F150 Pickup 2WD, 4WD	4.6L	VFM4.628G1EK	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45929 /45930
25	1997	F150 Pickup 2WD	4.6L	VFM4.6H8G1EK	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45929 /45930
26	1997	F150 Pickup 2WD, 4WD	5.4L	VFM5.4H8G1EK	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45941 /45942
27	1997	E-150, E-250, E-350	5.4L	VFM5.4J8G1EK	Tier 1	MDV3	D	4	TWC	4	45000 /61000	45941 /45942
28	1998	Ranger Pickup 4WD, Mazda B-Series	3.0L	WFMXT03.0HAA	TLEV	LDT2	Y	3	TWC	2	45000	45925
29	1998	Explorer 2WD, 4WD	4.0L	WFMXT04.02DC	TLEV	LDT2	D	2	TWC	2	45000	45926S
30	1998	Ranger Pickup 4WD	4.0L	WFMXT04.0DAA	TLEV	LDT2	D	4	TWC	2	45000	45925
		Mazda B4000 4WD										
31	1998	Ranger Pickup 4WD, Mazda B-Series	4.0L	WFMXT04.0EAA	LEV	LDT2	D	4	TWC	2	45000	45925
32	1998	E150 Econoline 2WD	4.2L	WFMXA04.2AAA	Tier 1	MDV2	D	2	TWC	2	45000 /61000	45534 /45535
33	1998	F150 Pickup 2WD, 4WD	4.6L	WFMXT04.6AAA	Tier 1	LDT2	D	4	TWC	4	45000 /61000	45929 /45930
34	1998	Explorer 2WD/4WD, Mountaineer 2WD/4WD	5.0L	WFMXT05.02DC	TLEV	LDT2	D	4	TWC	4	45000 /61000	45528 /45529 /45530
35	1998	F150 Pickup 2WD, 4WD	5.4L	WFMXA05.4HBC	Tier 1	MDV2	D	4	TWC	4	45000 /61000	45528 /45529 /45530
36	1998	Expedition 2WD/4WD	5.4L	WFMXA05.4JGC	LEV	MDV3	D	4	TWC	4	45000 /61000	45541 /45542
		Navigator 2WD/4WD										

APPENDIX D-353-19

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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
38	1999	Mazda B2000 2WD	4.0L	XFMXT04.02DN	TLEV	LDT2	D	4	TWC	2	45000	45925
		Mazda B3000 4WD										
		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										
		Ford Ranger Pickup 4WD										
40	1999	Ford Explorer 2WD	4.0L	XFMXT04.02GF	LEV	LDT2	D	2	TWC	2	45000	45547
		Ford Explorer 4WD										
		Mercury Mountaineer 2WD										
		Mercury Mountaineer 4WD										
41	1999	E-150 Econoline 2WD	4.2L	XFMXA04.2HGC	LEV	MDV3	D	4	TWC	4	45000 /61000	45534 /45535
42	1999	E-150 Club Wagon	4.2L	XFMXA04.2JGC	LEV	MDV3	D	4	TWC	4	45000 /61000	45534 /45535
		E-150 Econoline 2WD										
		E-250 CabChassis 2WD										
		E-250 Econoline 2WD										
		E-250 Strip Chassis 2WD										
43	1999	F-150 Pickup 2WD	4.2L	XFMXT04.22GC	LEV	LDT2	D	4	TWC	4	45000 /61000	45932 /45933
		F-150 Pickup 4WD										
44	1999	F-150 Pickup 2WD	4.6L	XFMXA04.6HGC	LEV	MDV2	D	4	TWC	4	45000 /61000	45932 /45933
		F-150 Pickup 4WD										
45	1999	Ford Explorer 2WD	5.0L	XFMXT05.02GF	LEV	LDT2	D	4	TWC	2	45000 /61000	45552 /45553
		Ford Explorer 4WD										
		Mercury Mountaineer 2WD										
		Mercury Mountaineer 4WD										

Additional Vehicles

Miller Catalyzer 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
46	1996	E-150 5.8L MFI	5.8L	TFM5.8J8G1EK	Tier 1	MDV3	S	2	TWC	2	45000	TBD
		E-250 5.8L MFI										TBD
		E-350 5.8L MFI										TBD
		F-350 5.8L MFI										TBD
47	1997	AEROSTAR 3.0L MFI	3.0L	VFM3.028G1GK	Tier 1	LDT2	S	2	TWC	2	45000	TBD
48	1997	EXPLORER 4.0L OHV	4.0L	VFM4.028G1FK	Tier 1	LDT2	S	2	TWC	2	45000	TBD
49	1997	AEROSTAR 4.0L MFI	4.0L	VFM4.028G1GK	Tier 1	LDT2	S	2	TWC	2	45000	TBD
50	1997	EXPLORER 4.0L MFI	4.0L	VFM4.028G2FK	TLEV	LDT2	S	2	TWC	2	45000	TBD
		MOUNTAINEER 4.0L MFI										TBD
51	1997	E-150 4.6L MFI	4.6L	VFM4.6J8G1EK	Tier 1	MDV3	D	4	TWC	4	45000 /61000	TBD
		E-150 O/6000 4.6L MFI										TBD
		EXPEDITION 4.6L MFI										TBD
		F-260 HEAVY DUTY 4.6L MFI										TBD
		F-250 LIGHT DUTY 4.6L MFI										TBD
52	1997	EXPLORER 5.0L MFI	5.0L	VFM5.028GFEK	Tier 1	LDT2	D	4	TWC	2	45000 /61000	TBD
		MOUNTAINEER 5.0L MFI										TBD
53	1997	EXPEDITION 5.4L MFI	5.4L	VFM5.4J8G1FK	Tier 1	MDV3	D	4	TWC	4	45000 /61000	TBD
		F-250										TBD
54	1997	F-350	5.8L	VFM5.8J8G1EK	Tier 1	MDV3	S	2	TWC	2	45000	TBD
55	1998	E-150 4.2L MFI	4.2L	WFMXA04.2ABA	Tier 1	MDV3	D	4	TWC	4	45000 /61000	TBD
		E-250 4.2L MFI										TBD
56	1998	F-150 4.6L MFI	4.6L	WFMXA04.6AAA	Tier 1	MDV2	D	4	TWC	4	45000 /61000	TBD
57	1998	EXPEDITION 4.6L MFI	4.6L	WFMXA04.6BAA	Tier 1	MDV3	D	4	TWC	4	45000 /61000	TBD
		E-150 4.6L MFI										TBD
		E-250 4.6L MFI										TBD
58	1998	F-150 5.4L MFI	5.4L	WFMXA05.4JBN	Tier 1	MDV3	D	4	TWC	4	45000 /61000	TBD
		F-250 LIGHT DUTY 5.4L MFI										TBD

APPENDIX D-353-19

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No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
59	1998	RANGER 3.0L MFI	3.0L	WFMXE03.0HAA	TLEV	LDT2	D/Y	3	TWC	2	45000 /61000	TBD
60	1998	WINDSTAR 3.0L MFI	3.0L	WFMXT03.0AAA	LEV	LDT2	D	2	TWC	2	45000	TBD
61	1998	WINDSTAR 3.0L MFI	3.0L	WFMXT03.0CAA	LEV	LDT2	D	2	TWC	2	45000	TBD
62	1998	WINDSTAR 3.8L MFI	3.8L	WFMXT03.8AAA	LEV	LDT2	D	2	TWC	2	45000	TBD
63	1998	WINDSTAR 3.8L MFI	3.8L	WFMXT03.8AAB	LEV	LDT2	D	2	TWC	2	45000	TBD
64	1998	EXPLORER 4.0L MFI	4.0L	WFMXT04.0CAA	Tier 1	LDT2	S	2	TWC	2	45000	TBD
65	1998	EXPLORER 4.0L SOHC, MOUNTAINEER	4.0L	WFMXT04.0FAA	TLEV	LDT2	D	2	TWC	2	45000	TBD
66	1998	F-150	4.2L	WFMXT04.2AAA	Tier 1	LDT2	D	4	TWC	4	45000 /61000	TBD
67	1998	E-150 4.2L MFI	4.2L	WFMXT04.2ABA	Tier 1	MDV3	D	4	TWC	4	45000 /61000	TBD
68	1999	E-150 4.6L MFI	4.6L	XFMXA04.6JBC	Tier 1	MDV3	D	4	TWC	4	45000 /61000	TBD
69	1999	F-250 LIGHT DUTY 4.6L MFI	4.6L	XFMXA04.6JGC	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD
		F-250 SUPER DUTY 4.6L MFI										TBD
		EXPEDITION 4.6L MFI										TBD
70	1999	F-150 5.4L	5.4L	XFMXA05.4HGC	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD
71	1999	F-150 5.4L	5.4L	XFMXA05.4JGC	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD
		F-250 LIGHT DUTY 5.4L										TBD
		F-250 SUPER DUTY 5.4L										TBD
		EXPEDITION 5.4L 2V										TBD
		NAVIGATOR 5.4L 2V										TBD
72	1999	NAVIGATOR 5.4L 4V	5.4L	XFMXA05.4JGN	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD
73	1999	RANGER 3.0L FFV, MAZDA	3.0L	XFMXT03.02DC	TLEV	LDT2	D/Y	3	TWC	2	45000 /61000	TBD
74	2000	F-150 4.6L MFI	4.6L	YFMXA04.6HGC	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD
75	2000	F-150 5.4L	5.4L	YFMXA05.4HGC	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD
76	2000	RANGER 3.0L FFV	3.0L	YFMXT03.02D5	TLEV	LDT2	D/Y	3	TWC	2	45000 /61000	TBD

APPENDIX D-353-19

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No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
77	2000	WINDSTAR 3.0L MFI	3.0L	YFMXT03.02F5	LEV	LDT2	D	2	TWC	2	45000	TBD
78	2000	VILLAGER 3.3L MFI	3.3L	YFMXT03.335B	LEV	LDT2	S	2	TWC	2	45000	TBD
79	2000	FORD POSTAL VEHICLE	4.0L	YFMXT04.02D5	TLEV	LDT2	D	2	TWC	2	45000	TBD
80	2000	FORD POSTAL VEHICLE	4.0L	YFMXT04.02D6	TLEV	LDT2	D	2	TWC	2	45000	TBD
81	2000	EXPLORER 4.0L OHV, RANGER, MAZDA	4.0L	YFMXT04.02F2	LEV	LDT2	D/Y	4	TWC	2		TBD
82	2000	EXPLORER 4.0L SOHC	4.0L	YFMXT04.02F3	LEV	LDT2	D	2	TWC	2	45000	TBD
		MOUNTAINEER 4.0L SOHC										TBD
83	2000	EXPLORER 4.0L SOHC	4.0L	YFMXT04.02F4	LEV	LDT2	D/Y	4	TWC	2	45000 /61000	TBD
		MOUNTAINEER 4.0L SOHC										TBD
84	2000	F-150 4.2L MFI	4.2L	YFMXT04.22FC	LEV	LDT2	D	4	TWC	4	45000 /61000	TBD
85	2000	E-150 4.2L MFI	4.2L	YFMXT04.2HGC	LEV	LDT2	D	4	TWC	4	45000 /61000	TBD
86	2000	E-150 4.2L MFI	4.2L	YFMXT04.2JGC	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD
		E-250 4.2L MFI										TBD
87	2000	E-150 ECONOLINE	4.6L	YFMXT04.66FF	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD
		E-150 CLUBWAGON										TBD
		EXPEDITION 4.6L MFI										TBD
88	2000	MOUNTAINEER 5.0L MFI	5.0L	YFMXT05.02F5	LEV	LDT2	D	4	TWC	2	45000 /61000	TBD
		EXPLORER 5.0L MFI										TBD
89	2000	NAVIGATOR 5.4L 4V, EXPEDITION	5.4L	YFMXT05.4RF7	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD
		F-150 5.4L					TBD					
		E-150, E-250					D/Y	3	TWC	2		TBD
		E-350										TBD

90	2001	RANGER 3.0L MFI, MAZDA B3000 2WD AUTO	3.0L	1FMXT03.02F4	LEV	LDT2	D/Y	5	TWC	4	45000 /61000	TBD
91	2001	RANGER 3.0L MFI, MAZDA B3000 4WD	3.0L	1FMXT03.02F5	LEV	LDT2	D/Y	4	TWC	4	45000 /61000	TBD
92	2001	RANGER 3.0L FFV, MAZDA B3000 2WD	3.0L	1FMXT03.02F6	LEV	LDT2	D/Y	5	TWC	4	45000 /61000	TBD
93	2001	EXPLORER SPORT 4.0L SOHC	4.0L	1FMXT04.02F4	LEV	LDT2	D/Y	4	TWC	4	45000 /61000	TBD
		EXPLORER SPORT TRAC 4.0L SOHC										TBD
		US POSTAL VEHICLE										TBD

APPENDIX D-353-19

Miller Catalyzer 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				
94	2001	RANGER 4.0L OHV	4.0L	1FMXT04.02F5	LEV	LDT2	D/Y	4	TWC	4	45000 /61000	TBD				
		EXPLORER 4.0L SOHC										TBD				
		MOUNTAINEER 4.0L SOHC										TBD				
		EXPLORER SPORT TRAC 4.0L SOHC										TBD				
95	2001	EXPLORER SPORT 4.0L SOHC	4.0L	1FMXT04.02F6	LEV	LDT2	D/Y	4	TWC	4	45000 /61000	TBD				
		EXPLORER SPORT TRAC 4.0L SOHC										TBD				
		US POSTAL VEHICLE										TBD				
96	2001	RANGER 4.0L OHV, MAZDA B4000 PU 2WD	4.0L	1FMXT04.02F7	LEV	LDT2	D/Y	4	TWC	4	45000 /61000	TBD				
97	2001	F-150 4.2L MFI 2WD/4WD	4.2L	1FMXT04.22F5	LEV	LDT2	D	4	TWC	4	45000 /61000	TBD				
98	2001	E-150 4.2L MFI	4.2L	1FMXT04.2HG5	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD				
99	2001	E-150 4.2L MFI	4.2L	1FMXT04.2JG5	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD				
		E-250 4.2L MFI										TBD				
100	2001	EXPEDITION 4.6L MFI	4.6L	1FMXT04.66F5	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD				
101	2001	EXPEDITION 4.6L MFI	4.6L	1FMXT04.66F7	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD				
102	2001	E-150 4.6L MFI- CLUBWAGON, ECONOLINE	4.6L	1FMXT04.6JF5	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD				
103	2001	F-150 4.6L MFI	4.6L	1FMXT04.6PF5	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD				
104	2001	F-150 4.6L MFI	4.6L	1FMXT04.6PF6	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD				
105	2001	F-150 5.4L MFI	5.4L	1FMXT05.4PF4	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD				
106	2001	F-150 4.6L MFI	4.6L	1FMXT05.4PF5	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD				
		F-150 5.4L MFI	5.4L									TBD				
107	2001	EXPEDITION, NAVIGATOR	5.4L	1FMXT05.4RF7	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD				
		E-150 5.4L MFI, F-150					D/Y					3	TWC	2	45000 /61000	TBD
		E-250 5.4L MFI														TBD
		E-350 5.4L MFI														TBD
108	2001	NAVIGATOR 5.4L 4V DOHC	5.4L	1FMXT05.4RF8	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD				
		F-150 5.4L										TBD				
		F-150 5.4L MFI										TBD				
		EXPEDITION 5.4L MFI 2V										TBD				

Additional Vehicles 2

Miller Catalyzer 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
109	2002	Ranger	3.0L	2FMXT03.02F5	LEV	LDT2	D/Y	5	TWC	4	45000 /61000	TBD
		Ranger	3.0L					4		4	45000 /61000	TBD
110	2002	Ranger	3.0L	2FMXT03.02F6	LEV	LDT2	D/Y	5	TWC	4	45000 /61000	TBD
111	2002	Mercury Villager	3.3L	2FMXT03.3C5C	LEV	LDT2	S	2	TWC	2	45000	TBD
112	2002	Explorer Sport, Sport Trac	4.0L	2FMXT04.02F3	LEV	LDT2	D/Y	4	TWC	4	45000 /61000	TBD
		Ranger	4.0L					4		4	45000 /61000	TBD
113	2002	Explorer Sport, Sport Trac	4.0L	2FMXT04.02F5	LEV	LDT2	D/Y	4	TWC	4	45000 /61000	TBD
114	2002	Explorer	4.0L	2FMXT04.02F7	LEV	LDT2	D/Y	3	TWC	2	45000 /61000	TBD
		Mountaineer	4.0L					3		2	45000 /61000	TBD
115	2002	Explorer	4.0L	2FMXT04.02F8	LEV	LDT2	D/Y	3	TWC	2	45000 /61000	TBD
		Mountaineer	4.0L					3		2	45000 /61000	TBD
116	2002	E-150	4.2L	2FMXT04.2HF5	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD
117	2002	E-150	4.2L	2FMXT04.2JF5	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD
		E-250	4.2L					4		4	45000 /61000	TBD
118	2002	Explorer	4.6L	2FMXT04.62F5	LEV	LDT2	D/Y	3	TWC	2	45000 /61000	TBD
		Mountaineer	4.6L					3		2	45000 /61000	TBD
119	2002	Explorer	4.6L	2FMXT04.62F6	LEV	LDT2	D/Y	3	TWC	2	45000 /61000	TBD
		Mountaineer	4.6L					3		2	45000 /61000	TBD
120	2002	Expedition	4.6L	2FMXT04.66F7	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD

Miller Catalyzer 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
121	2002	F-150 Lightning	5.4L	2FMXT05.42F5	LEV	LDT2	D	4	TWC	4	45000 /61000	TBD
122	2002	F-150	4.6L	2FMXT05.4PF5	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD
		F-150	5.4L					4		4	45000 /61000	TBD
123	2002	F-150	4.6L	2FMXT05.4PF6	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD
		F-150	5.4L					4		4	45000 /61000	TBD
124	2002	Expedition	5.4L	2FMXT05.4RF8	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD
		F-150	4.6L					4		4	45000 /61000	TBD
		F-150	5.4L					4		4	45000 /61000	TBD
		F-150 Supercharged	5.4L			LDT2		4		4	45000 /61000	TBD
		Lincoln Blackwood	5.4L			MDV3		4		4	45000 /61000	TBD
		Lincoln Navigator	5.4L					4		4	45000 /61000	TBD
125	2002	E-150	4.6L	2FMXT05.4RF9	LEV	MDV3	D	TWC	4	4	45000 /61000	TBD
		E-150, E-250, E-350	5.4L				D/Y					

126	2003	E-350 2WD	6.8L	3FMXA06.8JFN	LEV	MDV3	D/Y	3	TWC	3	45000 /61000	TBD
127	2003	Ranger, Mazda B3000	3.0L	3FMXT03.02F5	LEV	LDT2	D/Y	5	TWC	4	45000 /61000	TBD
128	2003	Ranger	3.0L	3FMXT03.02F6	LEV	LDT2	D/Y	5	TWC	4	45000 /61000	TBD
129	2003	Ranger	4.0L	3FMXT04.01FA	LEV	LDT2	D/Y	4	TWC	4	45000 /61000	TBD
130	2003	Explorer Sport	4.0L	3FMXT04.02F3	LEV	LDT2	D/Y	4	TWC	4	45000 /61000	TBD
		Explorer Sport Trac	4.0L			LDT2	D/Y	4	TWC	4	45000 /61000	TBD
		Ranger	4.0L			LDT2	D/Y	4	TWC	4	45000 /61000	TBD

Miller Catalyzer 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
131	2003	Explorer, Mountaineer 2WD/4WD	4.0L	3FMXT04.02F7	LEV	LDT2	D/Y	3	TWC	3	45000 /61000	TBD
132	2003	Explorer Sport	4.0L	3FMXT04.02FA	LEV	LDT2	D/Y	4	TWC	4	45000 /61000	TBD
		Explorer Sport Trac	4.0L			LDT2	D/Y	4	TWC	4	45000 /61000	TBD
		Ranger	4.0L			LDT2	D/Y	4	TWC	4	45000 /61000	TBD
133	2003	Explorer	4.0L	3FMXT04.02FB	LEV	LDT2	D/Y	3	TWC	3	45000 /61000	TBD
		Mercury Mountaineer	4.0L			LDT2	D/Y	3	TWC	3	45000 /61000	TBD
134	2003	Explorer 2WD/4WD, Mountaineer 2WD/4WD	4.0L	3FMXT04.02FC	LEV	LDT2	D/Y	3	TWC	3	45000 /61000	TBD
135	2003	E-150	4.2L	3FMXT04.2HF5	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD
136	2003	E-150, E-250	4.2L	3FMXT04.2JF5	LEV	MDV3	D	4	TWC	4	45000 /61000	TBD
137	2003	Lincoln Aviator	4.6L	3FMXT04.62F9	LEV	MDV3	D	3	TWC	3	45000 /61000	TBD
138	2003	F-150 Lightning	4.6L	3FMXT05.42F5	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD
139	2003	F-150	4.6L	3FMXT05.4PF8	LEV	MDV2	D	4	TWC	4	45000 /61000	TBD
140	2003	F-150	5.4L	3FMXT05.4RF8	LEV	MDV3	D/Y	5	TWC	4	45000 /61000	TBD
		F-150	5.4L			MDV3	D	4	TWC	4	45000 /61000	TBD