

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-184-19  
Relating to Exemptions under Section 27156  
of the Vehicle Code

Maremont Exhaust Division (d.b.a. Arvin Meritor)  
"Series 655000 and 655500 OBD II Compliant Three-way Catalytic Converters"

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, Maremont Exhaust Division (Maremont), a division of Arvin Meritor of 2400 Maremont Parkway, Loudon, Tennessee 37774, has applied to the Air Resources Board for exemption from the prohibitions in Vehicle Code Sections 27156 to market its new aftermarket Series 655000 and 655500 three-way catalytic converters (TWC) for installation on selected 1996 through 2002 Ford trucks equipped with on-board diagnostic II (OBD-II) systems and multiple catalytic converters as specified in Appendix D-184-19 and incorporated herein. The Series 655000 will be used as front catalytic converters (2 units) and Series 655500 as rear catalytic converters (2 units) for multiple (4 units) catalytic converter system applications. These catalytic converters will be sold for both universal and direct fit replacements. The Series 655000 and 655500 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-184-19.

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 California Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h). The emissions performance of said aftermarket catalytic converters were based on durability bench-aging by Johnson Matthey using the Air Resources Board-modified RAT-A bench-aging cycle for a duration of 100 hours for aftermarket catalytic converters and 200 hours for the original equipment manufacturer (OEM) catalytic converters, 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, emission tests conducted at the Environmental Research and Development Corporation (ERD), Ijamsville, Maryland, using a 1999 5.0L Ford Explorer, test group XFMX05.02GF (LDT2, LEV), with Series 655000 TWCs installed as front catalytic converters (2 units) and Series 655500 TWCs as rear catalytic converters (2 units) showed that the vehicle met the applicable emission standards. Furthermore, emissions tests conducted with Series 655000 TWCs installed as front catalytic converters (2 units) and aged OEM TWCs as rear converters (2 units) showed that the vehicle met the applicable emission standards. Similarly, emissions tests conducted with aged OEM TWCs as front catalytic converters (2 units) and Series 655500 TWCs as rear catalytic converters (2 units) showed that the

vehicle met the applicable emission standards. OBD II compatibility tests performed on the same test vehicle showed that Series 655000 and 655500 TWCs do not affect the vehicle's ability to perform OBD II system monitoring. Emission test results in grams per mile are shown below:

	NMOG	CO	NOx	Remarks
120K Standard	0.130	5.5	0.5	
Test with 655000/655500	0.093	2.02	0.07	Pass
Test with 655000/OEM rear	0.067	1.41	0.04	Pass
Test with OEM front/655500	0.067	1.54	0.04	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-184-19 subject to the following conditions:

1. No changes are permitted to the catalytic converters as described in the application for exemption. Any changes to the catalytic converters 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 converters 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 converters as individual devices.
3. Any oral or written references to this Executive Order or its content by Maremont Exhaust Division, 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 converters and is only a finding that the catalytic converters are exempt from the prohibitions of Vehicle Code Section 27156.
4. Maremont Exhaust Division's installation instructions for the new catalytic converters 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 converters 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. Maremont Exhaust Division and its vendors may not advertise the new aftermarket catalytic converters as "high or easy flow" catalytic converters 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 Maremont Exhaust Division, its associates, vendors, other businesses, and individuals associated with Maremont Exhaust Division, to be assembled at a different facility but 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.

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 13<sup>th</sup> day of April 2006.

  
Allen Lyons, Chief  
Mobile Source Operations Division

APPENDIX D-184-19

Maremont Series 655000/655500 Ford Truck California OBD II application list

NO.	MODEL YEAR	VEHICLE MODEL	ENGINE SIZE	NO. OF CYLINDERS	ENGINE FAMILY	CERTIFICATION LEVEL	EXHAUST TYPE	TOTAL CONVERTERS	CONVERTER TYPE	MONITORED	UNIVERSAL (FRONT L&R/REAR L&R)	DIRECT FIT (LEFT/RIGHT/REAR)
1	1996	EXPLORER	5.0	8	TFM5.028GFEK	TIER1	D	4	TWC	FRONT	655003/655543	653099/653100/653114
		MERCURY MOUNTAINEER	5.0	8							655003/655543	653099/653100/653114
2	1997	F150	4.2	6	VFM4.228G1EK	TIER1	D	4	TWC	ALL	655043/655543	653109/653110
3	1997	F250	4.2	6	VFM4.228G1EK	TIER1	D	4	TWC	ALL	655043/655543	653109/653110
4	1997	E150	4.2	6	VFM4.2H8G1EK	TIER1	D	4	TWC	ALL	655043/655543	653106/653107
5	1997	E150	4.2	6	VFM4.2J8G1EK	TIER1	D	4	TWC	ALL	655043/655543	653106/653107
		E250	4.2	6							655043/655543	653106/653107
6	1997	F150	4.6	8	VFM4.628G1EK	TIER1	D	4	TWC	ALL	655043/655543	653113/653112
7	1997	F150	4.6	8	VFM4.6H8G1EK	TIER1	D	4	TWC	ALL	655043/655543	653113/653112
8	1997	E150	4.6	8	VFM4.6J8G1EK	TIER1	D	4	TWC	ALL	655043/655543	TBD
		F250	4.6	8							655043/655543	653113/653112
		EXPEDITION	4.6	8							655043/655543	653113/653112
9	1997	EXPLORER	5.0	8	VFM5.028GFEK	TIER1	D	4	TWC	FRONT	655003/655543	653099/653100/653114
		MERCURY MOUNTAINEER	5.0	8							655003/655543	653099/653100/653114
10	1997	F150	5.4	8	VFM5.4H8G1EK	TIER1	D	4	TWC	ALL	655043/655543	TBD
11	1997	F250	5.4	8	VFM5.4J8G1FK	TIER1	D	4	TWC	ALL	655043/655543	TBD
		EXPEDITION	5.4	8							655043/655543	TBD
12	1998	E150	4.2	6	WFMXA04.2AAA	TIER1	D	4	TWC	ALL	655043/655543	653106/653107
		F150	4.2	6			D	4	TWC	ALL	655043/655543	653109/653110
13	1998	E150	4.2	6	WFMXA04.2ABA	TIER1	D	4	TWC	ALL	655043/655543	653106/653107
		E250	4.2	6							655043/655543	653106/653107
14	1998	F150	4.6	8	WFMXA04.6AAA	TIER1	D	4	TWC	ALL	655043/655543	653113/653112
15	1998	F150	4.6	8	WFMXA04.6BAA	TIER1	D	4	TWC	ALL	655043/655543	653113/653112
		F250	4.6	8							655043/655543	653113/653112
16	1998	F150	5.4	8	WFMXA05.4HBC	TIER1	D	4	TWC	ALL	655043/655543	TBD
17	1998	LINCOLN NAVIGATOR	5.4	8	WFMXA05.4JBC	TIER1	D	4	TWC	ALL	655043/655543	TBD
18	1998	F150	5.4	8	WFMXA05.4JBN	TIER1	D	4	TWC	ALL	655043/655543	TBD
19	1998	EXPEDITION	5.4	8	WFMXA05.4JGC	LEV	D	4	TWC	ALL	655043/655543	TBD
		LINCOLN NAVIGATOR	5.4	8							655043/655543	TBD
20	1998	F150	4.6	8	WFMXT04.6AAA	TIER1	D	4	TWC	ALL	655043/655543	653113/653112
21	1998	EXPLORER	5.0	8	WFMXT05.02DC	TLEV	D	4	TWC	FRONT	655003/655543	653099/653100/653114
		MERCURY MOUNTAINEER	5.0	8							655003/655543	653099/653100/653114
22	1999	E150	4.2	6	XFMXA04.2HGC	LEV	D	4	TWC	ALL	655043/655543	653106/653107
23	1999	E150	4.2	6	XFMXA04.2JGC	LEV	D	4	TWC	ALL	655043/655543	653106/653107
		E250	4.2	6							655043/655543	653106/653107
24	1999	F150	4.6	8	XFMXA04.6HGC	LEV	D	4	TWC	ALL	655043/655543	653113/653112
25	1999	E150	4.6	8	XFMXA04.6JBC	TIER1	D	4	TWC	ALL	655043/655543	TBD
26	1999	F250	4.6	8	XFMXA04.6JGC	LEV	D	4	TWC	ALL	655043/655543	653113/653112
		EXPEDITION	4.6	8							655043/655543	653113/653112
27	1999	F150	5.4	8	XFMXA05.4HGC	LEV	D	4	TWC	ALL	655043/655543	TBD
28	1999	F150	5.4	8	XFMXA05.4JGC	LEV	D	4	TWC	ALL	655043/655543	TBD
		F250	5.4	8							655043/655543	TBD
		EXPEDITION	5.4	8							655043/655543	TBD
		LINCOLN NAVIGATOR	5.4	8							655043/655543	TBD
29	1999	LINCOLN NAVIGATOR	5.4	8	XFMXA05.4JGN	LEV	D	4	TWC	ALL	655043/655543	TBD
30	1999	F150	4.2	6	XFMXT04.22GC	LEV	D	4	TWC	ALL	655043/655543	653109/653110
31	1999	EXPLORER	5.0	8	XFMXT05.02GF	LEV	D	4	TWC	FRONT	655003/655543	653096/653097
		MERCURY MOUNTAINEER	5.0	8							655003/655543	653096/653097

APPENDIX D-184-19

Maremont Series 655000/655500 Ford Truck California OBD II application list

NO.	MODEL YEAR	VEHICLE MODEL	ENGINE SIZE	NO. OF CYLINDERS	ENGINE FAMILY	CERTIFICATION LEVEL	EXHAUST TYPE	TOTAL CONVERTERS	CONVERTER TYPE	MONITORED	UNIVERSAL (FRONT L&R/REAR L&R)	DIRECT FIT (LEFT/RIGHT/REAR)
32	2000	E150	4.2	6	YFMXA04.2JGC	LEV	D	4	TWC	ALL	655043/655543	653106/653107
		E250	4.2	6							655043/655543	653106/653107
33	2000	E150	4.6	8	YFMXA04.66FF	LEV	D	4	TWC	ALL	655043/655543	TBD
		EXPEDITION	4.6	8							655043/655543	653113/653112
34	2000	F150	4.6	8	YFMXA04.6HGC	LEV	D	4	TWC	ALL	655043/655543	653113/653112
35	2000	F150	5.4	8	YFMXA05.4HGC	LEV	D	4	TWC	ALL	655043/655543	TBD
36	2000	F150	5.4	8	YFMXA05.4RF7	LEV	D	4	TWC	ALL	655043/655543	TBD
		E150	5.4	8							655043/655543	TBD
		E250	5.4	8							655043/655543	TBD
		E350	5.4	8							655043/655543	TBD
		EXPEDITION	5.4	8							655043/655543	TBD
		LINCOLN NAVIGATOR	5.4	8							655043/655543	TBD
37	2000	F150	4.2	6	YFMXT04.22FC	LEV	D	4	TWC	ALL	655043/655543	653109/653110
38	2000	E150	4.2	6	YFMXT04.2HGC	LEV	D	4	TWC	ALL	655043/655543	653106/653107
39	2000	EXPLORER	5.0	8	YFMXT05.02F5	LEV	D	4	TWC	FRONT	655003/655543	653096/653097
		MERCURY MOUNTAINEER	5.0	8							655003/655543	653096/653097
40	2000	F150	5.4	8	YFMXT05.4PF5	LEV	D	4	TWC	ALL	655043/655543	TBD
41	2001	F150	4.2	6	1FMXT04.22F5	LEV	D	4	TWC	ALL	655043/655543	TBD
42	2001	E150	4.2	6	1FMXT04.2HG5	LEV	D	4	TWC	ALL	655043/655543	TBD
43	2001	E150	4.2	6	1FMXT04.2JG5	LEV	D	4	TWC	ALL	655043/655543	TBD
		E250	4.2	6							655043/655543	TBD
44	2001	EXPEDITION	4.6	8	1FMXT04.66F5	LEV	D	4	TWC	ALL	655043/655543	TBD
45	2001	EXPEDITION	4.6	8	1FMXT04.66F7	LEV	D	4	TWC	ALL	655043/655543	TBD
46	2001	E150	4.6	8	1FMXT04.6JF5	LEV	D	4	TWC	ALL	655043/655543	TBD
47	2001	F150	4.6	8	1FMXT04.6PF5	LEV	D	4	TWC	ALL	655043/655543	TBD
48	2001	F150	4.6	8	1FMXT04.6PF6	LEV	D	4	TWC	ALL	655043/655543	TBD
49	2001	EXPLORER	5.0	8	1FMXT05.02F5	LEV	D	4	TWC	FRONT	655003/655543	653096/653097
		MERCURY MOUNTAINEER	5.0	8							655003/655543	653096/653097
50	2001	F150	5.4	8	1FMXT05.42F5	LEV	D	4	TWC	ALL	655043/655543	TBD
51	2001	F150	5.4	8	1FMXT05.4PF4	LEV	D	4	TWC	ALL	655043/655543	TBD
52	2001	F150	4.6	8	1FMXT05.4PF5	LEV	D	4	TWC	ALL	655043/655543	TBD
53	2001	F150	5.4	8	1FMXT05.4RF7	LEV	D	4	TWC	ALL	655043/655543	TBD
		E150	5.4	8							655043/655543	TBD
		E250	5.4	8							655043/655543	TBD
		E350	5.4	8							655043/655543	TBD
		EXPEDITION	5.4	8							655043/655543	TBD
		LINCOLN NAVIGATOR	5.4	8							655043/655543	TBD
54	2001	F150	4.6	8	1FMXT05.4RF8	LEV	D	4	TWC	ALL	655043/655543	TBD
		EXPEDITION	4.6	8							655043/655543	TBD
		LINCOLN NAVIGATOR	4.6	8							655043/655543	TBD

APPENDIX D-184-19

Additional Vehicles 1

Maremont Series 655000/655500 Ford Truck California OBD II application list

NO.	MODEL YEAR	VEHICLE MODEL	ENGINE SIZE	NO. OF CYLINDERS	ENGINE FAMILY	CERTIFICATION LEVEL	EXHAUST TYPE	TOTAL CONVERTERS	CONVERTER TYPE	MONITORED	UNIVERSAL (FRONT L&R/REAR L&R)	DIRECT FIT (LEFT/RIGHT/REAR)
1	2002	F150	5.4	8	2FMXT05.4RF6	LEV	D	4	TWC	ALL	655043/655543	TBD
2	2002	F150	5.4	8	2FMXT05.4PF6	LEV	D	4	TWC	ALL	655043/655543	TBD
3	2002	F150	5.4	8	2FMXT05.42F5	LEV	D	4	TWC	ALL	655043/655543	TBD
4	2002	F150	5.4	8	2FMXT05.4PF5	LEV	D	4	TWC	ALL	655043/655543	TBD
5	2002	E150	4.2	6	2FMXT04.2HF5	LEV	D	4	TWC	ALL	655043/655543	TBD
6	2002	E150	4.2	6	2FMXT04.2JF5	LEV	D	4	TWC	ALL	655043/655543	TBD
	2002	E250	4.2	6							655043/655543	TBD
7	2002	LINCOLN BLACKWOOD	5.4	8	2FMXT05.4RF8	LEV	D	4	TWC	ALL	655043/655543	TBD
	2002	EXPEDITION	5.4	8							655043/655543	TBD
	2002	F150	5.4	8							655043/655543	TBD
	2002	LINCOLN NAVIGATOR	5.4	8							655043/655543	TBD