

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-613-4
Relating to Exemptions under Section 27156
of the Vehicle Code

Advanced Car Specialties Limited (d.b.a. RiteCat)
"Series 44000 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, Advanced Car Specialties Limited (ACS) of 1865 Birchmount Road, Toronto, Ontario, Canada M1P 2J5, has applied to the Air Resources Board for exemption from the prohibitions in Vehicle Code Section 27156 to market its new aftermarket Series 44000 three-way catalytic converter (TWC) for installation on selected 1995 through 2003 model year Toyota passenger cars and light-duty trucks 1 equipped with on-board diagnostic II (OBD-II) systems as specified in Appendix D-613-4 and incorporated herein. The Series 44000 TWC will be used for single exhaust with one or two units in series or dual exhaust with two units.

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-613-4.

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 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 Umicore Automotive Catalyst Corporation 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 Automotive Testing and Development Services (ATDS), Ontario, California, using a 2000 1.5L Toyota Echo equipped with a single exhaust system, and certified to the Low Emission Vehicle (LEV, PC) emission standards showed that the vehicle met the applicable emission standards with Series 44000 TWC (one unit) installed.

OBD II compatibility tests performed on the same test vehicle showed that Series 44000 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				
1.5L Toyota Echo Test				
	NMOG	CO	NOx	Remarks
100K Standard	0.090	4.2	0.3	
Test 1	0.080	0.5	0.1	Pass
Test 2	0.090	0.4	0.1	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-613-4 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 Advanced Car Specialties Limited, 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. Advanced Car Specialties Limited'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. Advanced Car Specialties Limited 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. Advanced Car Specialties Limited, 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.
9. ACS must submit the required quality audit and production quantity reports for its aftermarket catalytic converters on a semi-annual basis, 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 10 day of December 2007.



Annette Hebert, Chief
Mobile Source Operations Division

Appendix D-613-4

Advanced Car Specialties Limited - Series 44000 OBDII TWC for Toyota PC/LDT1

No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Converter Type	Total Converters	Monitored	Universal	Direct Fit								
NO	Model Year	Vehicle Model	Engine size	Engine Family	Certification Level	Weight Class	Exhaust Type	Converter Type	Total Converter	Monitored Converter	Universal	Direct Fit								
1	1998	Corolla	1.8	WTYXV01.8DXB	TLEV	PC	Single	TWC	1	1	44000	TBD								
2		Tercel	1.5	WTYXV01.5BBA		PC					44000	TBD								
		Paseo				PC					44000	TBD								
		Paseo Convertible				PC					44000	TBD								
3	1999	Tercel	1.5	XTYXV01.5BBA	TIER 1	PC	Single	TWC	1	1	44000									
		Paseo				PC					44000	TBD								
		Paseo Convertible				PC					44000	TBD								
4	1999	Camry	3.0	XTYXV03.0BBA	TIER 1	PC	Single	TWC	1	1	44000	TBD								
		Solara				PC					44000	TBD								
5	1999	Corolla	1.8	XTYXV01.8DXB	TLEV	PC	Single	TWC	1	1	44000	TBD								
6		Tacoma 2WD	3.4	XTYXT03.4BBH	TIER 1	LDT-1	Single	TWC	1	1	44000	TBD								
7		Tacoma 4WD	2.7	XTYXT02.7DXJ	TLEV	LDT-1					44000	TBD								
8		Echo	1.5	YTYXV01.5FFA	LEV	PC	Single	TWC	1	1	44000	TBD								
9	2000	Camry	3.0	YTYXV03.0BBA	TIER 1	PC	Single	TWC	1	1	44000	TBD								
		Solara									1.8	YTYXV01.8DDB	TLEV	PC	Single	TWC	1	1	44000	TBD
10		Cellca												PC	44000	TBD				
11	Cellca		YTYXV01.8DDC		PC						44000	TBD								
12	Corolla	1.8	YTYXV01.8FFA	LEV	PC	Single	TWC	1	1	1	44000	TBD								
13	2001	Echo	1.5	1TYXV01.5FFA	LEV	PC	Single	TWC	1	1	44000	TBD								
14		Cellca	1.8	1TYXV01.8DDB	TLEV	PC	Single	TWC	1	1	44000	TBD								
15		Cellca	1.8	1TYXV01.8DDC	TLEV	PC	Single	TWC	1	1	44000	TBD								
ADDITIONAL VEHICLES 1																				
16	1995	Paseo	1.5L	STY1.5VHGFEK	Tier 1	PC	Single	TWC	1	1	44000	N/A								
17		Corolla	1.8L	STY1.6VHG1GA				TWC (2)	2	2										
18		Corolla, Corolla Wagon	1.8L	STY1.8VJG1GA				TWC	1	1										
19		Cellca		STY1.8VHGFEA																
20		MR2	2.2L	STY2.2VJG1GA	TWC (2)	2	2													
21		Camry		STY2.2VJG2GA																
22		Tacoma	2.4L	STY2.41HG1GK	Tier 1	LDT1	Single	TWC	1	1										
23		Truck		STY2.417G1GA																
24		Truck	STY2.417G1HA																	
25		T100	STY2.71HGEEK																	
26		Tacoma 4WD	2.7L	STY2.71HG1GK																
27		Camry, ES 300, Avalon	3.0L	STY3.0VJGFEK		PC														
28	T100	3.4L	STY3.41JG1GK		LDT1		TWC	1	1											
29	Tacoma		STY3.41JGFEK																	

Advanced Car Specialties Limited - Series 44000 OBDII TWC for Toyota PC/LDT1												
No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Converter Type	Total Converters	Monitored	Universal	Direct Fit
30	1996	Tercel, Paseo	1.5L	TTY1.5VHGFEK	Tier 1	PC	Single	TWC	1	1	44000	N/A
31		Corolla, Corolla Wagon Celica	1.6, 1.8L	TTY1.8VJG1GK								
32		Celica	1.8L	TTY1.8VHGFEK								
33		RAV4 4WD	2.0L	TTY2.0JG2GK	TLEV	LDT1		TWC(2)	2	2		
34		Camry, Celica, Celica Convertible	2.2L	TTY2.2VJG2GK	Tier 1	LDT1		TWC	1	1		
35		Tacoma 2WD	2.4L	TTY2.4IHGKEK								
36		Tacoma 4WD, 4-Runner 2WD	2.7L	TTY2.7IHGKEK								
37		Camry, Camry Wagon	3.0L	TTY3.0VJG1GK								
38		Avalon, ES300		TTY3.0VJGKEK								
39		Supra, SC300, GS300		TTY3.4IJG1GK								
40		T100 PU 2WD	3.4L	TTY3.4IJG1GK	Tier 1	LDT1		TWC	1	1		
41		Tacoma 2WD, 4WD		TTY3.4IJGFEK								
42		Tercel, Paseo, Paseo Convertible		1.5L								
43	Celica, Corolla	1.6/1.8L	VTY1.8VJGKEK	Tier 1	PC	TWC	1	1				
44	RAV4 2WD, 4WD	2.0L	VTY2.0JG2GK	TLEV	LDT1	TWC (2)	2	2				
45	Camry	2.2L	VTY2.2VJG3GK	LEV	PC							
46	Celica, Celica Convertible	2.2L	VTY2.2VJG2GK	TLEV	LDT1	TWC	1	1				
47	Tacoma 2WD	2.4L	VTY2.4IHGKEK	Tier 1								
48	T100 PU 2WD	2.7L	VTY2.7IHGKEK									
49	Tacoma 4WD, 4-Runner 2WD	2.7L	VTY2.7IJGKEK									
50	Camry, ES 300, Avalon	3.0L	VTY3.0VJGKFK	TIER 1					PC	TWC (2)	2	2
51	SC300, GS300, Supra		VTY3.0VJGKEK	Tier 1								
52	Celica, Celica Convertible	2.2L	WTYXT02.2DXD	TLEV	LDT1	TWC (2)	2	2				
53	Tacoma 2WD	2.4L	WTYXT02.4BBH	Tier 1								
54	4 Runner, Tacoma 4WD, T100 2WD	2.7L	WTYXT02.7BBH						LDT1			
55	T100 PU 2WD	3.4L	WTYXT03.4BBH	Tier 1	PC	Single	TWC	1	1			
56	LS400, GS400	4.0L	WTYXV04.0DBB	Tier 1	PC	Dual	2TWC	2	2			
57	Celica, Celica Convertible	2.2L	XTYXT02.2DXD	TLEV	PC	Single	TWC (2)	2	2			
58	Tacoma 2WD	2.4L	XTYXT02.4BBH	Tier 1	LDT-1		2TWC	2	2			
59	4 Runner, Tacoma 4WD, T100 2WD	2.7L	XTYXT02.7BBH									
60	SC400, LS400, GS400	4.0L	XTYXV04.0DBA							TLEV	PC	2TWC

Appendix D-613-4

Advanced Car Specialties Limited - Series 44000 OBDII TWC for Toyota PC/LDT1																	
No.	Model Year	Vehicle Model	Engine Size	Engine Family	Certification Level	Weight Class	Exhaust Type	Converter Type	Total Converters	Monitored	Universal	Direct Fit					
61	2000	Tacoma 2WD	2.4L	YTYXT02.4FFJ	LEV	LDT1	Single	TWC (2)	2	2	44000	N/A					
62		Tacoma 2WD, 4WD	2.7L	YTYXT02.7FFJ													
63		SC300	3.0L	YTYXV03.0DDF	TLEV								PC	Dual	2TWC	2	2
64		Tacoma 2WD	3.4L	YTYXT03.4FFH	LEV								LDT1	Single	TWC(2)	2	2
65		GS400	4.0L	YTYXV04.0DDA	TLEV								PC	DUAL	2TWC	2	2
66	2001	Corolla	1.8L	1TYXV01.8FFA	LEV	PC	Single	TWC	1	1	44000	N/A					
67		RAV4 2WD, 4WD	2.0L	1TYXT02.0FFH		LDT1	Dual	2TWC	2	2							
68		Tacoma 2WD	2.4L	1TYXT02.4FFH													
69		4 Runner, Tacoma 2WD, 4WD	2.7L	1TYXT02.7FFH													
70		Camry, Solara	3.0L	1TYXV03.0BBA	Tier 1	PC	Single	TWC	1	1							
71	Tacoma 2WD	3.4L	1TYXT03.4FFH	LEV	LDT1	Single	TWC(2)	2	2								
72	2002	Echo	1.5L	2TYXV01.5FFA	LEV	PC	Single	TWC	1	1	44000	N/A					
73		Cellca	1.8L	2TYXV01.8DDB	TLEV												
74		Corolla		2TYXV01.8FFA	LEV												
75		Camry, Solara	3.0L	2TYXV03.0BBC													
76	2003	Echo	1.5L	3TYXV01.5FFA	LEV	PC	Single	TWC	1	1	44000	N/A					
77		Corolla Matrix, Cellca	1.8L	3TYXV01.8DDC	TLEV			TWC	1	1							
78		Cellca		3TYXV01.8FFB	LEV			TWC(2)	2	2							
79		MR2		3TYXV01.8FFC	LEV												