

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-241-7

Relating to Exemptions Under Section 27156
of the California Vehicle Code

Mac Products, Inc.
Mac Air Induction System

Pursuant to the authority vested in the Air Resources Board by Section 27156 of the Vehicle Code; and

Pursuant to the authority vested in the undersigned by Section 39515 and Section 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the installation of the Mac Air Induction System, manufactured and marketed by Mac Products, Inc., 43214 Blackdeer Loop, Temecula, California 92590, has been found not to reduce the effectiveness of the applicable vehicle pollution control systems and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for applicable to 2001 through 2008 model-year General Motors trucks and Ford vehicles as listed in Exhibit A.

The Mac Air Induction System includes the following main components: open-element reusable air filter, filter enclosure (as applicable), intake system tubing, crankcase ventilation hose (as applicable, which may be silicone, and a color other than black), assorted brackets, and hardware. The stock mass air flow sensor element for Ford applications is transferred to the new air intake tubing.

This Executive Order is valid provided that the installation instructions for the Mac Air Induction System will not recommend tuning the vehicle to specifications different from those submitted by the device manufacturer.

Changes made to the design or operating conditions of the Mac Air Induction System, as exempt by the Air Resources Board, which adversely affect the performance of the vehicle's pollution control system shall invalidate this Executive Order.

This Executive Order shall not apply to any Mac Air Induction System advertised, offered for sale, sold with, or installed on a new motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

Marketing of the Mac Air Induction System using any identification other than that shown in this Executive Order or marketing of the Mac Air Induction System for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

This Executive Order does not constitute any opinion as to the effect the use of the Mac Air Induction System may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on emission test results in the modified configuration using the Cold-Start CVS-75 Federal Test Procedure, Supplemental Federal

Test Procedure (US06), and an examination of the On-Board Diagnostic II (OBD II) system. A 2007 model year Chevrolet Sierra with a 5.3 liter engine (7GMXTO5.3380, LEV II ULEV) and a 2007 model year Ford Mustang with a 4.0 liter engine (7FMXV04.0VBR, LEV II ULEV) was used for the evaluation of the Mac Air Induction Systems. Results from emissions testing conducted at Automotive Testing and Development Services, Inc., located in Ontario, California, are shown below (in grams per mile with deterioration factors applied):

Sierra	CVS-75				US06	
	NMOG	CO	NOx	HCHO	NMHC+NOx	CO
Standards, UL	0.070	2.1	0.04	0.011	0.40	10.5
Air Induction System	0.068	1.3	0.02	0.001	0.05	0.5

Mustang	CVS-75				US06	
	NMOG	CO	NOx	HCHO	NMHC+NOx	CO
Standards, 50K	0.040	1.7	0.05	0.008	0.14	8.0
Air Induction System	0.037	0.5	0.02	0.001	0.03	0.3

The emission test results in the modified configuration were either at or below the applicable certification standards. Examination of the OBD II system showed the Mac Air Induction System does not affect OBD II system operation. A similar effect on vehicle emissions and OBD II system operation is expected with the installation of the Mac Air Induction System on vehicles listed in this Executive Order.

The Air Resources Board reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of Title 13, California Code of Regulations, Section 2222, et seq.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF THE MAC AIR INDUCTION SYSTEM.

No claim of any kind, such as "Approved by the Air Resources Board", may be made with respect to the action taken herein in any advertising or other oral or written communication.

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 the order, in 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 30th day of May 2008.



Annette Hebert, Chief
Mobile Source Operations Division

Exhibit A

Part #	Year	Make
		GM
3607	2007-2008	5.3/6.0/6.3 GM Truck/SUV
3353	2003-2008	5.3 GM Trailblazer/Envoy
3676	2006-2008	6.0 GM SS Trailblazer/Envoy
3342	2002-2003	4.2 GM Trailblazer/Envoy
3424	2004-2005	4.2 GM Trailblazer/Envoy
3426	2006	4.2 GM Trailblazer/Envoy
3060	2003-2008	6.0 H2 Hummer
3515	2004-2008	3.5 GM Truck/Hummer H3
3633	2006-2008	6.6 Diesel GM Trucks
3366	2004-2005	6.6 Diesel GM Trucks
3663	2001-2004	6.6 Diesel GM Trucks
3532	1999-2007	5.3/6.0/6.3 GM Truck/SUV
3567	1999-2007	5.3/6.0/6.3 GM Truck/SUV
3560	1999-2007	5.3/6.0/6.3 GM Truck/SUV
3281	2003-2008	8.1 GM Truck
3454	1996-1999	454 GM Truck
3948	1999-2007	4.3 GM Truck
3643	1996-2004	4.3 GM Truck
3635	1996-1999	350 GM Truck
		Ford
3505	2005*-2006	4.6 Mustang, 2005 model year V8 Mustangs built after 4/30/2005
3540	2005-2008	4.0 Mustang
3465	2005*-2006	4.6 Mustang, 2005 model year V8 Mustangs built after 4/30/2005
3584	2005*-2006	4.6 Mustang, 2005 model year V8 Mustangs built after 4/30/2005
3667	2005-2008	4.0 Mustang
3285	1996-2004	4.6 Mustang
3806	1996-2004	4.6 Mustang
3980	1996-2004	4.6 Mustang
3395	2003-2004	4.6 Mustang Cobra
3901	1999-2001	4.6 Mustang Cobra
3908	1996-1998	4.6 Mustang Cobra
3734	2001-2004	3.8 Mustang
3739	1999-2000	3.8 Mustang
3738	1996-1998	3.8 Mustang

Exhibit A

3735	1994-1995	3.8 Mustang
3876	1986-1993	5.0 Mustang
3376	1993	5.0 Mustang Cobra
3380	1986-1993	5.0 Mustang
3764	1994-1995	5.0 Mustang
3446	1996-2004	4.6 Mustang
3346	2003-2004	4.6 Mustang Cobra
3496	1996-2001	4.6 Mustang Cobra Bullit
3864	1999-2004	3.8 Mustang
3386	1996-1998	3.8 Mustang
3399	1994-1995	3.8 Mustang
3893	1989-1993	5.0 Mustang
3868	1986-1988	5.0 Mustang
SM9680	1996-1998	4.6 Mustang
SM9980	1999-2001	4.6 Mustang
SM7338	1994-2000	3.8 Mustang
SM7695	1994-1995	5.0 Mustang
SM7693	1986-1993	5.0 Mustang
SM7793	1986-1993	5.0 Mustang
SM7386	1986-1993	5.0 Mustang
S9600	1996-2004	4.6 Mustang
S9500	1994-1995	5.0 Mustang
S9500	1994-2000	3.8 Mustang
S8693	1986-1993	5.0 Mustang
3296	1996-2004	4.6 Mustang
3499	1996-2002	4.6 Mustang Bullit
3499	1999-2001	4.6 Mustang Cobra
3463	2003-2004	4.6 Mustang Cobra
3495	1994-1995	5.0 Mustang
3638	1994-1995	3.8 Mustang
3636	1996-1998	3.8 Mustang
3620	1999-2004	3.8 Mustang
3693	1986-1993	5.0 Mustang
3388	1986-1988	5.0 Mustang
3393	1986-1993	5.0 Mustang
3603	1994-1998	4.6 Tbird
3688	1986-1988	5.0 Mustang
3544	2004-2008	5.4 Truck
3744	2004-2008	5.4 Truck
3407	2007-2008	4.6 Truck
3960	1999-2004	6.8 Truck
3368	2005-2006	6.8 Truck
3954	1999-2004	5.4 Truck
3854	2005-2006	5.4 Truck
3854	2005-2006	5.4 Truck
3360	2003-2006	6.0 Diesel Truck

Exhibit A

3660	2006-2008	6.0 Diesel Truck
3973	1999-2002	7.3 Diesel Truck
3798	1999	7.3 Diesel Truck
3542	2004-2008	4.2 Truck
3464	2004-2008	4.6 Truck
3467	2005-2008	4.6 Truck
3624	2002-2003	4.0 Ford Explorer/Mercury Mountaineer
3646	2002-2003	4.6 Ford Explorer/Mercury Mountaineer
3945	2004-2005	4.6 Ford Explorer/Mercury Mountaineer
3649	2006-2007	4.6 Ford Explorer/Mercury Mountaineer
3946	1997-2004	4.6/5.4 Truck & SUV
3464	2004-2008	4.6 Truck
3546	2005-2008	5.4 Expedition
3467	2005-2008	4.6 Truck
3851	2002-2004	5.4 Truck & SUV
3988	2002-2004	5.4 Truck & SUV
3654	2005-2006	5.4 Expedition
3508	2001-2004	Lightning & Harley Trucks
3507	1999-2000	Lightning & Harley Trucks
3503	2001-2004	Lightning & Harley Trucks
3501	1999-2000	Lightning
3930	2005-2008	3.0 Ford Escape/Mazda Tribute/Mercury Mariner
3640	1996-2001	4.0 Ranger
3406	2004-2008	4.0 Ranger
3630	2004-2008	3.0 Ranger
MA3768	1989-1993	S/C Tbird
MA3948	1994-1997	4.6 Tbird
MA7386	1986-1993	5.0 Mustang
MA7696	1986-1993	5.0 Mustang
MA7763	1993	5.0 Mustang Cobra
MA8093	1986-1993	5.0 Mustang
MA7695	1994-1995	5.0 Mustang
MA7338	1994-2000	3.8 Mustang
3222	2000-2003	2.0 Focus
3221	2000-2003	2.0 Focus
3223	2000-2003	2.0 Focus
3680	1998-2004	3.0 Ranger
3606	1999-2003	4.0 Ranger
3968	1999-2002	5.4/6.8 Super Duty/Excursion
3936	2001-2002	3.0 Escape
3642	1997-2003	4.2 Truck
3237	1997-2000	2.3 Ranger
3659	1997-2001	5.0 Explorer
3656	1996	5.0 Explorer

* This system is not exempted for use on any Mustang with a hydrocarbon adsorber in the original equipment manufacturer air intake system.