

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-271-17

Relating to Exemptions Under Section 27156  
of the California Vehicle Code

Kenne Bell, Inc.  
TS Series Supercharger

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 TS Series Supercharger, manufactured and marketed by Kenne Bell, Inc., 10743 Bell Court, Rancho Cucamonga, California 91730, 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 the following Ford Motor Company vehicles listed in Exhibit A.

The 2005 to 2009 model year Ford Mustang TS Series Supercharger Kit consists of the following main components: Twin screw supercharger using the stock crankshaft pulley, intercooler, intake manifold, bypass valve, a 170 degree thermostat to replace the stock thermostat, 39 pound high flow injectors, mass air flow sensor, reflashed ECM, open element air filter on 2005 model year built after April 30, 2005 and 2006 model year Mustangs only, and electronic fuel pump booster. **The stock air cleaner housing is retained on 2005 model year built on or before April 30, 2005, and 2007 to 2009 model year Mustangs.** The breather and vacuum hoses may be replaced with an SAE30R9 rated hose.

The 2007 to 2009 model year Ford 5.4L Shelby GT500 Supercharger Kit consists of the following main components: Twin screw supercharger with a 3.25 inch diameter pulley designed to replace the stock supercharger, a 180 degree thermostat to replace the stock thermostat, modified ECM calibration, Ford GT style air intake system and mass air flow sensor, 75 mm throttle body, and a conical air filter in a new air box. The stock crankshaft pulley is retained. There are no changes or modifications to any of the following: vacuum or emission related hoses, fuel injectors, or radiator thermostat.

The TS Series Supercharger kit, for other Ford vehicles, includes the following main components: A twin screw type supercharger, intake manifold, and open element air filter. Additional components, as listed in Exhibit A, include an ECU chip or an optimizer, an auxiliary fuel injector, and/or a fuel management booster. The breather and vacuum hoses may be replaced with an SAE30R9 rated hose.

This Executive Order is valid provided that the installation instructions for the TS Series Supercharger 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 TS Series Supercharger, 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 TS Series Supercharger 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 TS Series Supercharger using any identification other than that shown in this Executive Order or marketing of the TS Series Supercharger 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 TS Series Supercharger may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on submitted emission test data generated on a 2007 model year 4.6L Ford Mustang certified to the Low Emission Vehicle II Ultra Low Emission Vehicle (LEV II ULEV) emission standards and a 2007 model year 5.4L Ford Shelby GT500 certified to the Low Emission Vehicle II Low Emission Vehicle (LEV II LEV) emission standards, both modified with the TS Series Supercharger Kit. Test results on the Mustang showed that emission levels, with Kenne Bell, Inc.'s TS Series Supercharger installed, met the applicable emission standards when tested using the Cold-Start CVS-75 Federal Test Procedure (FTP) and the Supplemental Federal Test Procedure (SFTP US06/SC03) test cycles. Boost pressure was measured at 8.1 psi. for the Mustang and 11.6 psi. for the Shelby GT500. Examination of the OBD II system showed the TS Series Supercharger did not affect OBD II system operation. Results from emission testing conducted at the Automotive Testing and Development Services, Inc., of Ontario, California are listed below with deterioration factors applied.

<b>2007 model year Ford Mustang</b>		<b>CVS-75 FTP</b>		
	NMOG	CO	NOx	HCHO
Standards	0.040	1.7	0.05	0.008
Device Test	0.027	1.3	0.01	0.001
		<b>US06/SC03</b>		
	NMHC+NOx	CO		
Standards 4k	0.14/0.20	8.0/2.7		
Device	0.13/0.01	1.1/0.7		
<b>2007 model year Ford Shelby GT500</b>		<b>CVS-75 FTP</b>		
	NMOG	CO	NOx	HCHO
Standards	0.075	3.4	0.05	0.015
Device Test	0.061	2.1	0.05	0.001
		<b>US06/SC03</b>		
	NMHC+NOx	CO		
Standards 4k	0.14/0.20	8.0/2.7		
Device	0.03/0.04	4.1/2.1		


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 TS SERIES SUPERCHARGER.

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 5<sup>th</sup> day of September 2008.

  
Annette Hebert, Chief  
Mobile Source Operations Division

# Exhibit A

PART NO.	YEAR	MODEL	NEW	ENGINE	PULLEY SIZE			CHIP	FMU	OPTIMIZER	INJECTORS	
			INTAKE		DISPLACEMENT	6	8	12				or
			MANIFOLD			PSI	PSI	PSI				
FORD												
TS1000 SERIES	1986-93	MUSTANG GT	X	5.0	2.38	2.16			X			
TS1000 SERIES	1986	MERCURY CABRIS	X	5.0	2.38	2.16			X			
TS1000 SERIES	1986-93	MUSTANG COBRA	X	5.0	2.38	2.16			X			
TS1000 SERIES	1994-95	MUSTANG GT	X	5.0	2.75	2.5			X			
TS1000 SERIES	1994-95	MUSTANG COBRA	X	5.0	2.38	2.16			X			
TS1000 SERIES	1986-91	LINCOLN	X	5.0	2.38	2.16			X			
TS1000 SERIES	1989-93	T-BIRD	X	5.0	2.38	2.16			X			
TS1000 SERIES	1986-99	LA FORZA	X	5.0	2.38	2.16			X			
TS1000 SERIES	1994-04	MUSTANG GT	X	4.6	3	2.63			X	X		
TS1000 SERIES	1996-04	MUSTANG COBRA	X	4.6	3	2.63			X	X		
TS1000 SERIES	1992-03	LINCOLN	X	4.6	3	2.63			X	X		
TS1000 SERIES	1992-03	T-BIRD	X	4.6	3	2.63			X	X		
TS1000 SERIES	1992-07	CROWN VICTORIA	X	4.6	3	2.63			X	X		
TS1000 SERIES	1999-04	COBRA/MACH 1	X	5.4	2.5	2.25			X	X		
TS1000 SERIES	1994-00	MUSTANG V6	X	3.8	2.5	3				X		
TS1000 SERIES	2005-09*	MUSTANG	X	4.6	4.12	4				X	X	
TS1000 SERIES	2001	MUSTANG BULLIT	X	4.6 2V	3	2.63				X	X	
TS1000 SERIES	2007-09	SHELBY GT500, KR	X	5.4 4V			3.25			X		
TS1000 SERIES	2003-06	FORD GT	X	5.4 4V			3.25			X		
TS5000 SERIES	1996-09	TRUCKS, SUV'S	X	4.6	3.13	2.63			X	X		
TS5000 SERIES	1996-09	TRUCKS, SUV'S	X	5.4	2.75	2.63			X	X		
TS5000 SERIES	1999-03	TRUCKS, SUV'S (NAVIGATOR)	X	5.4 4V	2.75				X	X		
TS5000 SERIES	1999-09	TRUCKS, SUV'S	X	6.8	2.5				X	X		
TS5000 SERIES	2004-09	TRUCKS, SUV'S	X	5.4 3V	3.0	2.5				X	X	
TS5000 SERIES	2004-09	TRUCKS, SUV'S	X	4.6	3.13	3.0				X	X	
TS4000 SERIES	1989-96	E&F SERIES TRUCKS & VANS	X	5.0	2.79				X			
TS3000 SERIES	1989-96	E&F SERIES TRUCKS & VANS	X	5.8	2.63				X			
TS2000 SERIES	1989-96	E&F SERIES TRUCKS, VANS & MOTORHOME	X	7.5	2.13				X			
TS2000 SERIES	1996-99	EXPLORER	X	5.0	2.79				X			
TS2000 SERIES	1991-99	EXPLORER	X	4.0	2.79				X			
TS2000 SERIES	1991-99	RANGER	X	4.0	2.79				X			
TS2000 SERIES	1997-99	RANGER	X	5.0	2.79				X			
TS8000 SERIES	2001-09	ESCAPE/MAZDA TRIBUTE		3.0	2.00						X	

\* The stock air cleaner housing is retained on 2005 model year built on or before April 30, 2005, and 2007 to 2009 model year Mustangs.