State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-330-4
Relating to Exemptions Under Section 27156
of the Vehicle Code

SUPERCHIPS, INC.
Ford Upgrade Module

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-45-9;

IT IS ORDERED AND RESOLVED: That the installation of the Ford Upgrade Module, manufactured and marketed by Superchips, Inc., 134 Baywood Avenue, Longwood, Florida 32750 has been found not to reduce the effectiveness of the applicable vehicle pollution control system and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for those applicable 1985 to 1999 Ford vehicles equipped with engine displacements listed in Exhibit A, and are also equipped with the EEC4 or EEC5 Electronic Fuel Injection System. Vehicles certified to an ultra low emission vehicle (ULEV) standard are excluded. **The 1200 series part numbers are applicable to Ford vehicles equipped with a diesel or V-10 gasoline engine and the 1100 series part numbers are applicable to all other Ford applications.**

The diesel Ford Upgrade Module is designed as a replacement to the factory computer chip located in the electronic control module (ECM). The new electronic module plugs into the service port on the ECM. Changes to the stock operating parameters from the installation of the Ford Upgrade Module are: Fuel delivery is increased at high loads, shift points are raised, boost pressure is increased, and RPM and speed limit are modified. An insert is also included for the vacuum line connected to the waste-gate actuator.

The gasoline Ford Upgrade Module is designed as a replacement to the factory computer chip located in the electronic control module (ECM). The new electronic module plugs into the service port on the ECM. Changes to the stock operating parameters from the installation of the Ford Upgrade Module are: Timing is increased at part and wide open throttle, fuel is increased at wide open throttle, shift points are raised, and RPM and speed limit are modified. **Manufacturer recommends use of high octane fuel with the Ford Upgrade Module.**

This Executive Order is valid provided that the installation instructions for the Ford Upgrade Module will not recommend tuning the vehicle to specifications different from those of the vehicle manufacturer.

This Executive Order shall not apply to any Superchips, Inc. Ford Upgrade Module advertised, offered for sale, or sold with or installed on, a motor vehicle prior to or concurrent with transfer to an ultimate purchaser

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

Marketing of the Ford Upgrade Module using any identification other than that shown in this Executive Order or marketing of the Ford Upgrade Module 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 Ford Upgrade Module may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on results of prior emissions tests conducted on a 1999 Ford diesel F-350 truck with a 7.3L engine that is certified to a low emission vehicle standard (LEV), a 1998 Mercury Navigator with a 5.4L that is also certified to a low emission vehicle standard (LEV), and a 1993 Ford Mustang with a 5.0L engine. Test results showed that tailpipe emissions with the Superchip installed were at or below the Navigator's applicable emission standard, and within the allowable limits for comparative emissions testing on the F-350 and Mustang.

This Executive Order is also based on On Board Diagnostic II (OBD II) testing conducted on trucks. Test data showed that the Superchip when installed on the trucks did not affect their ability to perform its OBD II monitoring.

The ARB finds that reasonable grounds exist to believe that use of the Superchip may adversely affect emissions of motor vehicles when operating under conditions outside the parameters of the previously prescribed test procedures. Accordingly, the ARB reserves the right to conduct additional emission tests, in the future, as such tests are developed, that will more adequately measure emissions from all cycle phases. If such test results demonstrate that the Superchip adversely affect emissions during off-cycle conditions (defined as those conditions which are beyond the parameters of the Cold-Start CVS-75 Federal Test Procedure), this Executive Order shall be effectively rescinded as of the date the test results are validated. Further, if such test results or other evidence provides the ARB with reason to suspect that the Superchip will affect the durability of the emission control system, Superchips, Inc. shall be required to submit durability data to show that the durability of the vehicle emission control system is not, in fact, affected and/or that the add-on or modified part demonstrates adequate durability.

In addition to the foregoing, the ARB 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 SUPERCHIPS, INC.'S FORD UPGRADE MODULE.

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 after hearing that grounds for revocation exist.

Executive Orders D-330-2, dated November 1998 and D-330-3, dated July 1999, are superseded and of no further force and effect.

Executed at El Monte, California, this 26th day of October 1999.

Raphael Susnowitz

for R. B. Summerfield, Chief
Mobile Source Operations Division

Superchips Inc. Ford Year/Engine Sizes for Carb. Certification

YEAR	ENGINE SIZE
1999	1.9L
1999	2.0L
1999	2.49L
1999	2.5L
1999	3.0L
1999	3.3L
1999	3.4L
1999	3.8L
1999	3.9L
1999	4.0L
1999	4.2L
1999	4.6L
1999	5.0L
1999	5.4L
1999	6.8L
1999	7.3L TDI

YEAR	ENGINE SIZE
1998	2.0L
1998	2.3L
1998	2.5L
1998	3.0L
1998	3.4L
1998	3.8L
1998	4.0L
1998	4.2L
1998	4.6L
1998	5.0L
1998	5.4L
1998	6.8L
1998	7.3L TDI

YEAR	ENGINE
1997	2.0L
1997	2.3L
1997	2.5L
1997	2.6L
1997	3.0L
1997	3.4L
1997	3.8L
1997	4.0L
1997	4.2L
1997	4.6L
1997	5.0L
1997	5.4L
1997	5.8L
1997	6.8L
1997	7.3L TDI
1997	7.5L

YEAR	ENGINE
1996	1.9L
1996	2.0L
1996	2.3L
1996	2.5L
1996	3.0L
1996	3.4L
1996	3.8L
1996	4.0L
1996	4.2L
1996	4.5L
1996	4.6L
1996	4.9L
1996	5.0L
1996	5.4L
1996	5.8L
1996	6.8L
1996	7.3L TDI
1996	7.5L

YEAR	ENGINE
1995	1.9L
1995	2.0L
1995	2.3L
1995	2.5L
1995	3.0L
1995	3.2L
1995	3.8L
1995	4.0L
1995	4.2L
1995	4.6L
1995	4.9L
1995	5.0L
1995	5.8L
1995	7.3L TDI
1995	7.5L

YEAR	ENGINE
1994	1.9L
1994	2.0L
1994	2.3L
1994	2.5L
1994	3.0L
1994	3.2L
1994	3.8L
1994	4.0L
1994	4.6L
1994	4.9L
1994	5.0L
1994	5.8L
1994	7.3L D
1994	7.3L TDI
1994	7.5L

YEAR	ENGINE
1993	1.9L
1993	2.0L
1993	2.3L
1993	2.5L
1993	3.0L
1993	3.2L
1993	3.8L
1993	4.0L
1993	4.6L
1993	4.9L
1993	5.0L
1993	5.8L
1993	7.3L D
1993	7.5L

YEAR	ENGINE
1992	1.9L
1992	2.2L
1992	2.2L TRB
1992	2.3L
1992	2.9L
1992	3.0L
1992	3.8L
1992	4.0L
1992	4.6L
1992	4.9L
1992	5.0L
1992	5.8L
1992	7.3L D
1992	7.5L

YEAR	ENGINE
1991	1.9L
1991	2.2L
1991	2.3L
1991	2.5L
1991	2.9L
1991	3.0L
1991	3.8L
1991	4.0L
1991	4.9L
1991	5.0L
1991	5.8L
1991	7.3L D
1991	7.5L

YEAR	ENGINE
1990	1.9L
1990	2.2L
1990	2.2L TRB
1990	2.3L
1990	2.5L
1990	2.9L
1990	3.0L
1990	3.8L
1990	3.8L SC
1990	4.0L
1990	4.9L
1990	5.0L
1990	5.8L
1990	7.3L D
1990	7.5L

D = DIESEL SC = SUPERCHARGED TDI = TURBO DIESEL INJECTED TRB = TURBO

Superchips Inc. Ford Year/Engine Sizes for Carb. Certification

YEAR	ENGINE
1989	1.9L
1989	2.2L
1989	2.2L TRB
1989	2.3L
1989	2.5L
1989	2.9L
1989	3.0L
1989	3.8L
1989	3.8L SC
1989	4.9L
1989	5.0L
1989	5.8L
1989	7.3L D
1989	7.5L

YEAR	ENGINE
1988	1.6L
1988	1.9L
1988	2.0L
1988	2.3L
1988	2.3L TRB
1988	2.5L
1988	2.9L
1988	3.0L
1988	3.8L
1988	4.9L
1988	5.0L
1988	5.8L
1988	7.3L D
1988	7.5L

YEAR	ENGINE
1987	1.9L
1987	2.0L
1987	5.0L
1987	5.8L
1987	2.5L
1987	3.0L
1987	2.3L
1987	2.3L TRB
1987	3.8L
1987	4.9L
1987	2.9L
1987	7.5L
1987	6.9L D

YEAR	ENGINE
1986	1.9L
1986	2.0L
1986	2.3L
1986	2.3L TRB
1986	2.5L
1986	2.8L
1986	2.9L
1986	3.0L
1986	3.8L
1986	4.9L
1986	5.0L
1986	5.8L
1986	6.9L D
1986	7.5L

YEAR	ENGINE
1985	1.6L
1985	1.6L TRB
1985	1.9L
1985	2.0L
1985	2.3L
1985	2.3L TRB
1985	2.4L TDI
1985	2.8L
1985	3.8L
1985	4.9L
1985	5.0L
1985	5.8L
1985	6.9L D
1985	7.5L

D = DIESEL SC = SUPERCHARGED TDI = TURBO DIESEL INJECTED TRB = TURBO