State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-304
Relating to Exemptions Under Section 27156
of the Vehicle Code

APPLIED TECHNOLOGIES & RESEARCH, INC.
RP333A DUAL STAGE STAINLESS HUSH HEADERS

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

Pursuant to the authority vested in the undersigned by Section 39515 and 39516 of the Health and Safety Code and Executive Order G-45-5;

IT IS ORDERED AND RESOLVED: That the installation of the RP333A Dual Stage Stainless Hush Headers manufactured by Applied Technologies & Research, Inc. of 500-9 Giuseppe Ct., Roseville, California 95678, has been found not to reduce the effectiveness of required motor vehicle pollution control devices, and therefore is exempt from the prohibitions of Section 27156 of the Vehicle Code for 1986-1987 model-year Buick Grand National, Regal Turbo and GNX passenger cars equipped with a V6 231 CID turbocharged engine.

This Executive Order is valid provided that installation instructions for this device 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 device, as exempted by the Air Resources Board, that adversely affect the performance of a vehicle's pollution control system shall invalidate this Executive Order.

Marketing of this device using an identification other than that shown in this Executive Order or marketing of this device for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of a kit shall not be construed as an exemption to sell, offer for sale, or advertise any component of the product as an individual device.

This Executive Order does not constitute any opinion as to the effect that the use of this device may have on any warranty either expressed or implied by the vehicle manufacturer.

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 APPLIED TECHNOLOGIES & RESEARCH, INC.'S RP333A DUAL STAGE STAINLESS HUSH HEADERS.

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 communications.

Section 17500 of the Business and Professions Code makes untrue or misleading advertising unlawful, and Section 17534 makes violation punishable as a misdemeanor.

Section 43644 of the Health and Safety Code provides as follows:

> "43644, (a) No person shall install, sell offer for sale, or advertise or except in an application to the state board for certification of a device, represent, any device as a motor vehicle pollution control device for use on any used motor vehicle unless that device has been certified by the state board. No person shall sell, offer for sale, advertise, or represent any motor vehicle pollution control device as a certified device which, in fact, is not a certified device. Any violation of this subdivision is a misdemeanor."

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California, this 10th day of February, 1993.

R.B. Summerfield
Assistant Division Chief
Mobile Source Division

Applied Technologies & Research, Inc.

Header Installation, Buick 3.8L Turbo 1986 - 1987

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*** WARNING ***
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Electric fans can start without the engine running or ignition on! Disconnect the battery per figure "A" while keeping hands clear of fan.

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*** REVIEW ALL INSTRUCTIONS ***
*** BEFORE PROCEEDING ***
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Figure "A"

REMOVAL

Remove the turbo shield. The turbo shield is attached by four bolts.

Remove the down pipe that runs from the turbo to the catalytic converter.

Remove the crossover pipe that connects the drivers side header to the passenger side header.

Remove the drivers side header.
Note: The brackets that connect the air conditioning compressor and the alternator must be removed to accomplish this.

Remove the passengers side header. The bracket holding the turbo is connected to the head and will hold the turbo in place without the header.

Remove the oxygen sensor from the passengers side header. This will be installed in the new header later.

Examine the surface of the heads near the exhaust ports and remove any carbon or gasket material build up to provide a better seal for the new headers.

Note: **Seal must be excellent or leaks will occur.**

We highly recommend a thin bead or smear of Permatex™ Ultra Copper™ be applied to head and 3-bolt flanges to aid in achieving optimum seal.

INSTALLATION

Install the passengers side header.
See figures "B" and "C".
First start the front top header bolt and leave very loose.
Next start the special bolt located in the lower center of the header flange. Then install the remaining flange bolts and install the bolts that connect the turbo to the header.
NOTE: The bolts that holds the turbo to the bracket which is fastened to the head may need to be loosened to align the turbo to the header. The bolts that connect the bracket to the head may also need to be loosened.

Install the drivers side header.
See figure "D"
After the header has been installed replace the air conditioning and alternator brackets.

Install the crossover pipe.

Install the down pipe. Refer to figure "B" and figure "C" for location of clamps.

Replace the Turbo shield and reconnect the battery.

Start the engine and listen for leaks.

WARNING: It is necessary to reroute the positive battery lead to allow more clearance and to prevent pinching between the headers and frame.

IMPORTANT TIP: These header flanges and joints have been carefully surfaced to achieve good flatness. Tighten header flange bolts and (3) bolt header/turbo flange before tightening bolts on turbo housing and turbo brackets to insure headers bolt flush to engine and turbo.

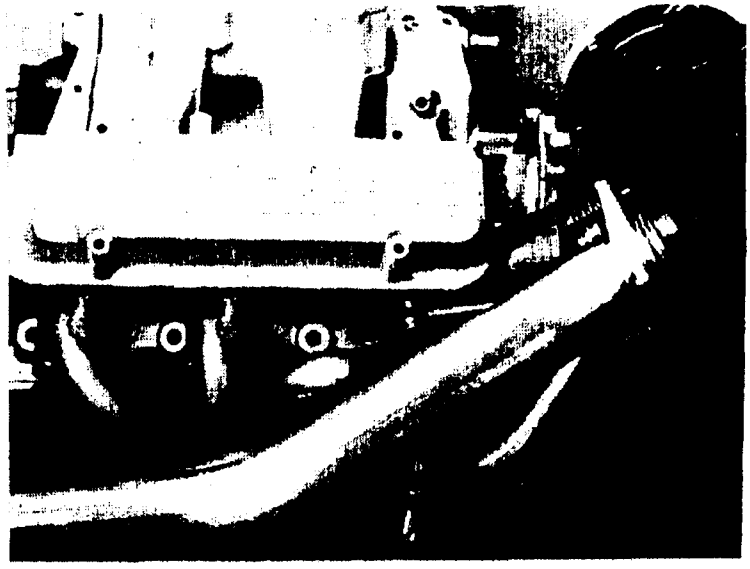

Figure "B"

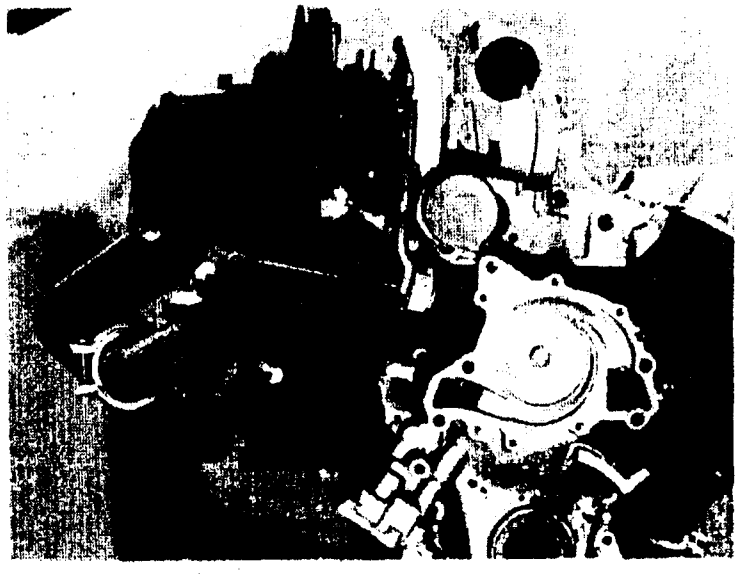

Figure "C"

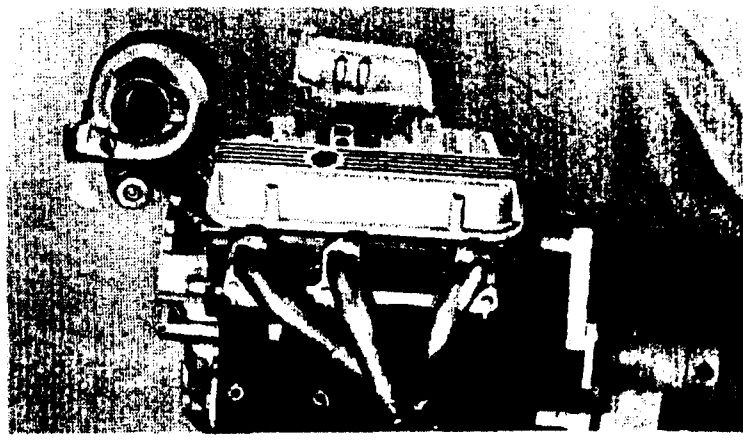

Figure "D"