



DEALER SERVICE BULLETIN



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Bulletin	87-5-13B
Date	Feb. '93
Ref. No.	87-240-5
Corp. Ref. No.	035002R

SUBJECT: POWERMASTER BRAKES (DIAGNOSTIC INFORMATION/INSTALL NEW KIT)

MODELS AFFECTED: 1986 LESABRE/ELECTRA ESTATE WAGON
1985-87 REGAL WITH 3.8 S.F.I. TURBO

This bulletin has been revised to include more diagnostics and introduces new repair kits for rebuilding the Powermaster unit. Please discard Bulletin 87-5-13A and replace it with this bulletin.

This bulletin provides brake diagnostic information that will help to correctly diagnose and resolve concerns with the Powermaster Brake System.

If, after following this procedure a technician still has a question, Delco Chassis Division has set up an 800 number for additional assistance.

Call: 1-800-523-0203

CONDITION:

Some owners of 1986 LeSabre/Electra Estate wagons or 1985-87 Buick Regal Turbo vehicles equipped with the Powermaster Brake System may experience either "harder pedal feel" or "increased pedal travel". The red brake warning light may also be illuminated. This should normally coincide with the hard pedal feel or warn of impending hard pedal if a concern is not resolved. It may also momentarily or continuously illuminate in conjunction with the increase pedal travel problem.

CAUSE:

A. "Harder Pedal Feel" symptoms can be diagnosed from this bulletin. There are four likely causes to be aware of:

1. **ACCUMULATOR WITH LOW GAS CHARGE:** Symptoms - Pedal is momentarily hard and/or brake warning light flickers on normal to fast brake applies.
2. **PRESSURE SWITCH FAILURE:** Symptoms - Pedal remains hard on all applies and pump fails to run.
3. **PUMP FAILURE:** Symptoms - Pedal remains hard on all applies and pump fails to run or may run continuously (with or without brake application).

Buick bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your authorized GM dealer for information on whether your vehicle may benefit from the information.

1986 Buick Repair Manual

Chilton Book Company



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Chilton's Auto Repair Manual 1986 Chilton Book Company, 1985 **Motor Auto Repair Manual/1980-1986** Motor (New York, N.Y.), 1985-11 Chilton's Auto Repair Manual 1981-1988 Chilton Automotive Books, 1988 The auto repair manual that do it yourselfers have relied on to save money now covers 1981-88 domestic cars This updated edition covers Detroit's newest models including the new Chrysler TC Chevrolet Corsica and Pontiac LeMans The most asked for book of its kind More than 3 000 illustrations *Hyundai Excel Automotive Repair Manual* Mike Stubblefield, John Harold Haynes, 1995 Hyundai Excel 1986-94 Shop Manual Haynes 247 pgs 592 b w ill *Popular Mechanics*, 1986-05 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **General Motors N-cars Automotive Repair Manual** Richard Lindwall, John Harold Haynes, 1995 GM N-Cars 1985-95 Shop Manual Haynes 376 pgs 902 ill **Chilton's Repair Manual** Richard J. Rivele, 1991 **Popular Mechanics**, 1988-02 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Chilton Book Company Repair Manual** Chilton Book Company, The Nichols/Chilton, 1988 Chilton's original line of model specific information covers older vehicles Each manual offers repair and tune up guidance designed for the weekend for the weekend mechanic covering basic maintenance and troubleshooting For the hobbyist or used car owner this information is essential and unavailable elsewhere Chilton's Repair Manual, 1991 *Chilton's Repair Manual, Chrysler Front Wheel Drive, 1981-92* Chilton Book Company, 1992 **Haynes GM N-Cars Owners Workshop Manual, No. 1420** Bob Henderson, J. H. Haynes, 1992

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