

# SERVICE BULLETIN



Bulletin 87-5-138

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

## 1986 Buick Repair Manual

**Michael Rajnik** 

#### 1986 Buick Repair Manual:

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 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 Havnes GM N-Cars Owners Workshop Manual, No. 1420 Bob Henderson, J. H. Haynes, 1992 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1977 Jeep Grand Cherokee Automotive Repair Manual Larry Warren, John Harold Haynes, 2000 Models covered all Jeep Grand Cherokee models 1993 through 2000 **Popular Science**, 1951-11 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better An Examination of Sudden Acceleration John Pollard, 1989 Audi 5000 Buick LeSabre Cadillac Coupe deVille Chevrolet Camaro Chrysler New Yorker Mercedes 300E Mercury Grand Marquis Nissan 300ZX Toyota Cressida Books in Print ,1994 Mitchell Automatic Transmissions and Transaxles, 1989 Another volume in this practical series for the beginner No bibliography Annotation copyrighted by Book News Inc Portland OR *Cars & Parts* .1993 The Cumulative Book Index ,1996 A world list of books in the English language

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